

DESIGN NARRATIVE

FOR THE CONCEPT DESIGN PHASE OF THIS PROJECT, WE HAVE DELINEATED SITE AND NATURAL RESOURCES, PROVIDED A SITE DEVELOPMENT LAYOUT, AND LOCATED PROPOSED ESD PRACTICES. BASED UPON THE PROPOSED SITE LAYOUT UNDER MASTER PLAN AND PHASE I DEVELOPMENT, THE EXISTING PERENNIAL STREAMS AND STREAM BUFFERS, WETLAND BUFFERS, 100-YR FLOODPLAIN, WOODS, STEEP SLOPES, TOPOGRAPHY, AND SOILS HAVE BEEN IDENTIFIED AND WILL BE PROTECTED AND PRESERVED.

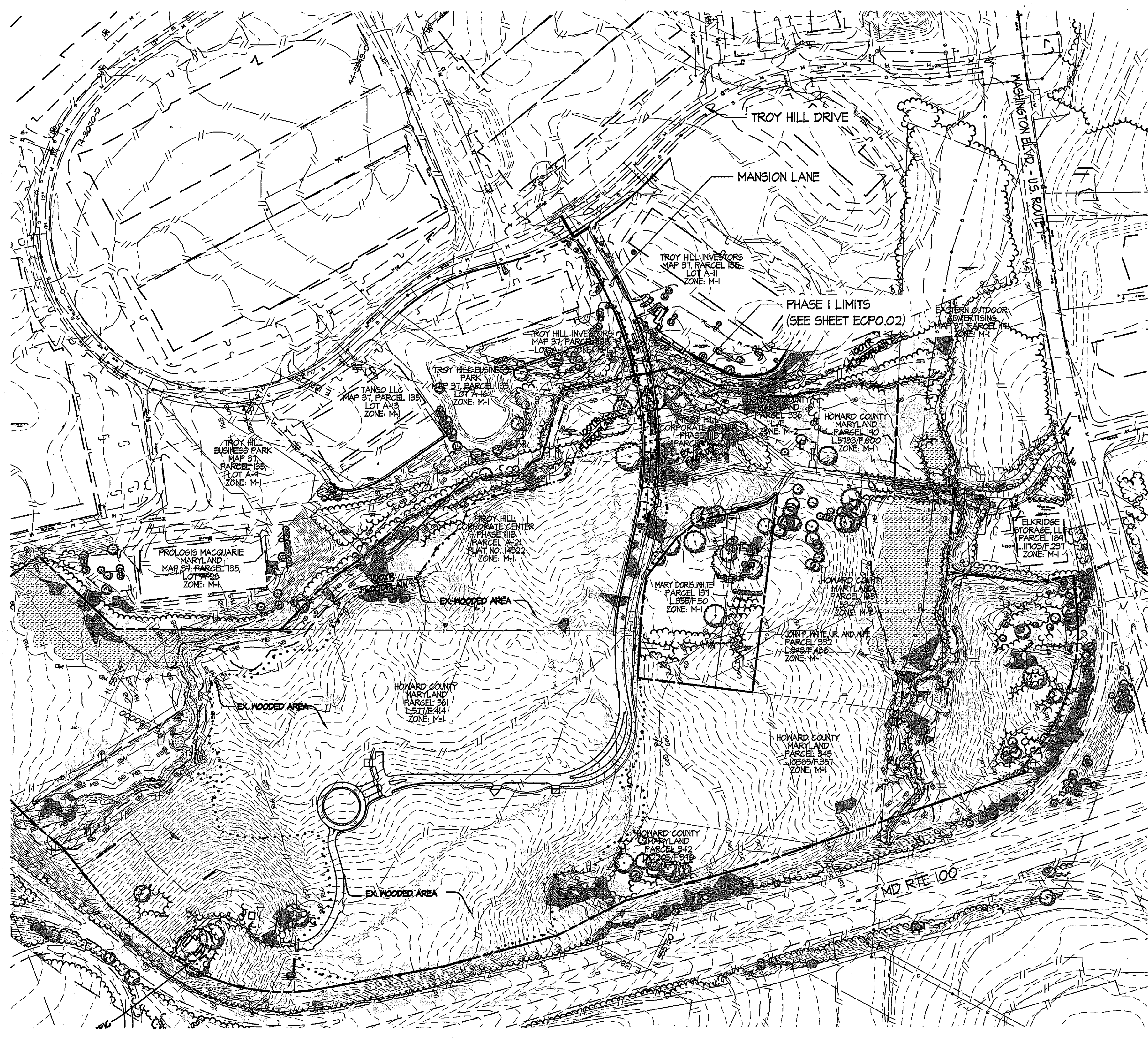
EFFORTS HAVE BEEN IMPLEMENTED TO GRADE THE SITE SUCH THAT RUNOFF FROM IMPERVIOUS SURFACES FLOWS DIRECTLY TO PERVIOUS AREAS, NATURAL DRAINAGE PATTERNS HAVE BEEN RETAINED, AND PROVISIONS FOR STABLE CONVEYANCE OF RUNOFF HAVE BEEN MADE. THE TOPOGRAPHIC CHALLENGES OF THIS SITE RESULTED IN THE NEED TO SECTION THE SITE INTO TERRACES WHICH WILL STEP UP INTO THE SITE TO THE NORTH-WEST.

THE ESD PRACTICES PROPOSED FOR THIS SITE ARE DISCONNECTION OF NON-ROOFTOP RUNOFF, MICRO-BIORETENTION, AND BIO-SWALES. ESD HAS BEEN DESIGNED TO PROTECT NATURAL RESOURCES, MAINTAIN NATURAL FLOW PATTERNS, AND MINIMIZE THE AMOUNT OF IMPERVIOUS AREA PROPOSED AS PART OF THIS DEVELOPMENT PROJECT.

DISCONNECTION OF NON-ROOFTOP RUNOFF WILL BE ACHIEVED FOR THE PROPOSED ATHLETIC FIELDS WHERE RUNOFF OF THE PERVIOUS AREA IS SHEETFLOW ACROSS OPEN AREAS AND REMAINS DISCONNECTED. MICRO-BIORETENTION PRACTICES ARE PROPOSED THROUGHOUT THE SITE TO CAPTURE AND TREAT RUNOFF FROM IMPERVIOUS AREAS. THE RUNOFF IS TEMPORARILY STORED IN THIS FACILITY AND FILTERS THROUGH A SYSTEM OF LAYERED PLANTING MEDIA, SAND, AND GRAVEL WITHIN A LANDSCAPED AREA. BIO-SWALES WILL BE INSTALLED ALONG THE OPEN-SECTION ROADWAY PORTIONS OF THE SITE TO CONVEY AND TREAT RUNOFF.

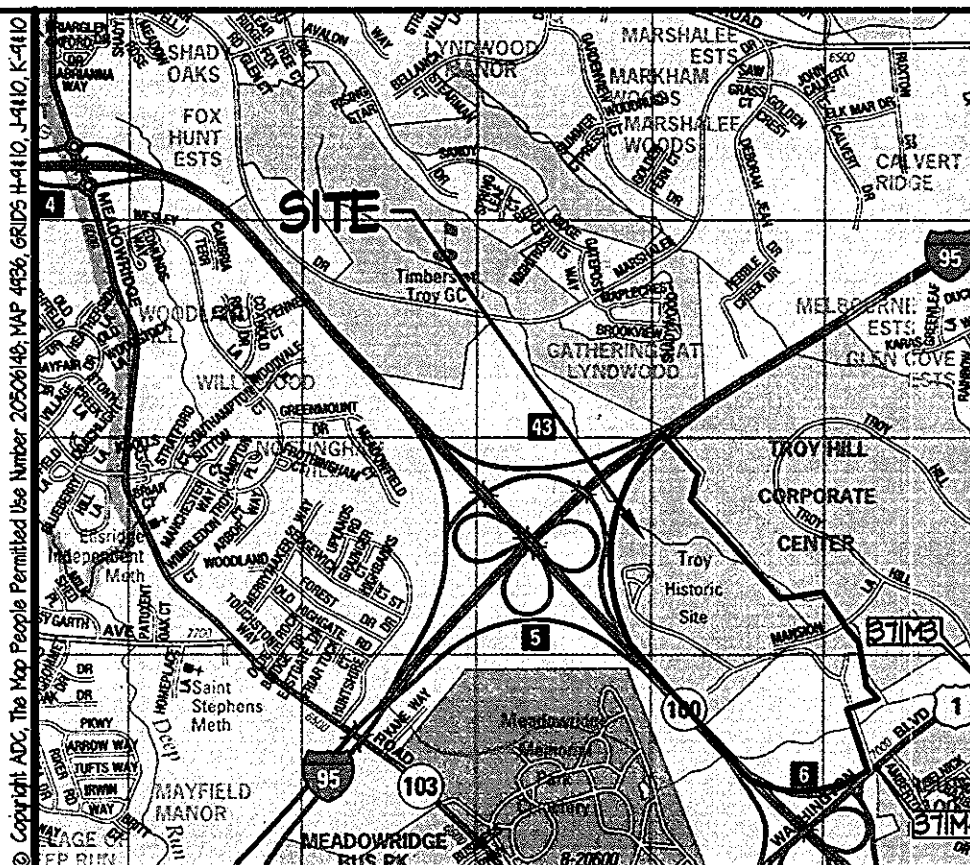
GENERAL NOTES

- THE COORDINATES SHOWN HEREON ARE BASED ON NAD '83 COORDINATE VALUES OF SHA PLAT #6101 AND TWO PLATS OF SURVEY FOR PARCELS 371 AND 345 PREPARED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
- WATER CONNECTION WILL BE MADE AT 12" PUBLIC LINE IN MANSION LANE (CONTRACT 14-3873-D).
- SEWER CONNECTION WILL BE MADE AT 8" PUBLIC LINE IN MANSION LANE (CONTRACT 14-3873-D).
- STORMWATER MANAGEMENT WILL BE PROVIDED BY ENVIRONMENTAL SITE DESIGN (ESD) PRACTICES. THE FACILITIES ARE TO BE PRIVATELY MAINTAINED.
- EXISTING UTILITIES ARE BASED ON SURVEYS PERFORMED BY SHANABERGER AND LANE AND HOWARD COUNTY GIS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF UTILITIES BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION.
- THE FLOODPLAINS SHOWN ON THIS SITE ARE BASED ON THE FEMA NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP, HOWARD COUNTY, MARYLAND, PANEL 35 OF 45, MAP NUMBER 240044 0035B (DATED DEC. 4, 1985) HOWEVER THERE IS A FLOODPLAIN EASEMENT SHOWN ON THIS PLAN FROM PLAT #1511, DATED DEC. 21, 2001 BY PATTON, HARRIS, RUST AND ASSOCIATES.
- THERE ARE STREAMS AND STREAM BUFFERS LOCATED ON THIS SITE AS SHOWN ON THE PLAN. THE WETLANDS SHOWN ON THIS SITE WERE FIELD LOCATED BY SHANABERGER AND LANE DATED APRIL 23, 2010 AND DELINEATED IN THE FIELD BY ECO-SCIENCE PROFESSIONALS INC.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN UNLESS DEEMED NECESSARY BY THE DEPARTMENT OF PLANNING AND ZONING OR PER WF-10-173.
- NO WETLANDS, WETLAND BUFFERS, STREAMS, STREAM BUFFERS, FLOODPLAIN EASEMENT AND/OR STEEP SLOPES 25% OR GREATER OF 20,000 SF CONTIGUOUS ARE PROPOSED TO BE DISTURBED AS PART OF THIS PROJECT.
- THIS PROJECT IS SUBJECT TO THE APPROVED WAIVER PETITION WF-10-73 (APPROVED JULY 6, 2010) FOR THE FOLLOWING:
 - SECTION 16.116(A)(2)(IV) - REQUIRES THAT GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 50 FEET OF A PERENNIAL STREAMBANK BUFFER IN NON-RESIDENTIAL ZONING DISTRICTS. THE WAIVER IS TO ALLOW MINIMAL DISTURBANCE TO PROVIDE EMERGENCY ACCESS ROAD IMPROVEMENTS TO WIDEN AN EXISTING ROAD WITH A CULVERT EXTENSION TO PROVIDE A SECOND MEANS OF EMERGENCY ACCESS FROM THE COUNTY PARK TO U.S. ROUTE 1.
 - SECTION 16.1202(A)(2) - REQUIRES THE SUBMISSION OF A FOREST CONSERVATION PLAN FOR APPROVAL FOR THE ENTIRE PROJECT AS PART OF THE SITE DEVELOPMENT PLAN SUBMISSION. THE WAIVER IS TO ALLOW THE FOREST CONSERVATION REQUIREMENTS FOR THIS PROJECT TO BE REVIEWED IN PHASES RATHER THAN UNDER ONE SUBMISSION FOR THE ENTIRE COUNTY PARK.
 - SECTION 16.1204(D)(6) - REQUIRES THE RECORDING OF A PLAT OF FOREST CONSERVATION EASEMENT (FCE) FOR THE ENTIRE PROJECT ALONG WITH THE ESTABLISHMENT OF FOREST CONSERVATION EASEMENTS WITH THE FOREST CONSERVATION PLAN. THE WAIVER IS TO ALLOW FOR THE TEMPORARY DEFERRAL FOR SUBMISSION AND RECORDING OF THE PLAT OF FCE UNTIL THE LAST PHASE OF DEVELOPMENT FOR THE COUNTY PARK.
 - SECTION 16.1205(A)(1) AND (10) - REQUIRES THAT PRIORITY ON-SITE RETENTION OF STATE CHAMPION TREES, TREES 75% OF THE DIAMETER OF STATE CHAMPION TREES, TREES 30" IN DIAMETER OR LARGER AND SPECIMEN TREES BE LEFT UNDISTURBED DURING THE GRADING AND CONSTRUCTION PROCESS. THE WAIVER IS TO ALLOW FOR THE REMOVAL OF 4 SPECIMEN TREES WITHIN PHASE I OF THE COUNTY PARK PROJECT.
- THIS PROJECT IS SUBJECT TO THE APPROVED WAIVER PETITION WF-II-036 (APPROVED OCTOBER 9, 2010) FOR THE FOLLOWING:
 - SECTION 16.155 (a) (1) (i) - REQUIRES THAT SITE PLAN APPROVAL IS OBTAINED PRIOR TO DEVELOPMENT. WAIVER PETITION WF-II-036 REQUESTS A WAIVER OF SUBDIVISION REGULATIONS SECTION 16.155 (a) (1) (i) REQUESTING THE INTERIM GRADING PERMIT BE GRANTED PRIOR TO FINAL APPROVAL OF THE SITE DEVELOPMENT PLAN.
 - APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN, SITE DEVELOPMENT PLAN, OR GRADING OR BUILDING PERMIT. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION, SITE PLAN, OR GRADING AND BUILDING PERMIT STAGES.



SITE ANALYSIS DATA

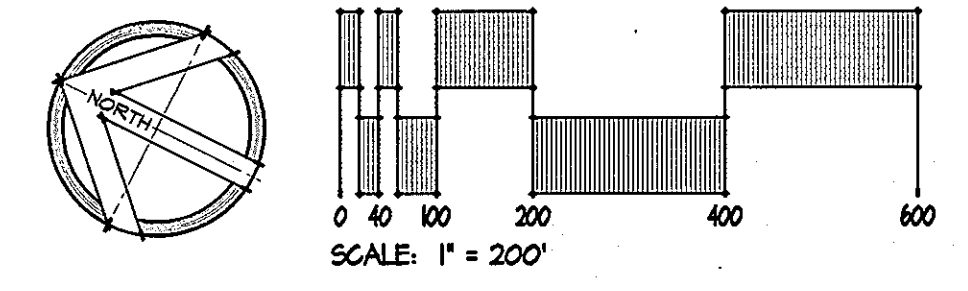
TOTAL PROJECT AREA	102 +/- AC
TOTAL LOD AREA	38.80 AC
WETLANDS	1.2 AC
WETLANDS BUFFER	5.4 AC
FLOODPLAINS	14.2 AC
FORESTS	75.0 AC
STEEP SLOPES (15% AND GREATER)	24.9 AC
PROPOSED IMPERVIOUS AREA	2.25 AC



VICINITY MAP 1"=200'

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING TREELINE
- EXISTING FOREST BUFFER
- FB
- EXISTING TREES
- EXISTING SHRUBS
- EXISTING WALK
- EXISTING ROAD
- EXISTING CURB
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING FLAGPOLE
- EXISTING BUILDING
- EXISTING WETLANDS
- WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER
- 100 YR FLOODPLAIN
- EXISTING 100-YEAR FLOODPLAIN
- EXISTING STEEP SLOPES
- PROPOSED WOODSLINE
- PROPOSED WALK
- PROPOSED ROAD
- FUTURE ROAD
- PROPOSED FENCE
- PROPOSED GUARDRAIL
- PROPOSED BUILDING
- LOD
- LIMIT OF DISTURBANCE



DRAWING INDEX

SHEET #	DRAWING #	DRAWING TITLE
1 OF 4	ECP-01	ECP COVER SHEET
2 OF 4	ECP-02	ECP EXISTING CONDITIONS PLAN
3 OF 4	ECP-03	ECP ESD AND SWM PLAN
4 OF 4	SWM-DA1	SWM DRAINAGE AREA MAP

APPROVED: DEPARTMENT OF PLANNING & ZONING
 [Signature] 10/12/12
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 10/15/12
 CHIEF, DIVISION OF LAND DEVELOPMENT

ADDRESS / PERMIT INFORMATION
 PARCELS 341, 343, 345, 336, 190, 195, 197 LOT A-21, 195 LOT A-22
 ADDRESS: 8450 MANSION LANE
 LOT 1 F#44, L#226 / F#31, L#226 / F#30, L#193 / F#40, L#193 / F#40,
 L#341 / F#18, L#433 / F#31, L#226 / F#30, L#193 / F#40,
 3807 F#18, ZONE: M-1, TAX MAP NO. 37
 2ND ELECTION DISTRICT, CENSUS TRACT 602.02
 WATER CODE: 400, SEWER CODE: 252200
 OWNER:
 HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 7025 OAKLAND HILLS ROAD, COLUMBIA, MARYLAND 21046
 PHONE (410) 383-2100
 DEVELOPER:
 HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 7025 OAKLAND HILLS ROAD, COLUMBIA, MARYLAND 21046
 PHONE (410) 383-2100

SITE RESOURCES
 Incorporated
 Comprehensive Land Planning & Site Design Services
 1415 Annapolis Pike • P.O. Box 11111
 (410) 693-3388 • Fax (410) 693-3389

DES: JLH					
DRN: JLH					
CHK: SRI					
DATE: 08/10/12	BY: NO.	REVISION	DATE	600' SCALE MAP NO. 51	BLOCK NO. 16

**ENVIRONMENTAL CONCEPT PLAN
 COVER SHEET**

NOT FOR CONSTRUCTION
TROY PARK - PHASE ONE
 PART OF TROY HILL CORPORATE CENTER PHASE IIIB PARCELS A-21 AND A-22
 CAPITAL PROJECT NO. N-3457
 HOWARD COUNTY, MARYLAND
 SCALE: 1"=200'
 ECP 0.01
 SHEET 1 OF 4
 ECP-10-08 SDR/AL/003

SPECIMEN TREE DATA

TREE	SPECIES, SIZE	CONDITION/COMMENT
A	BLACK WALNUT, 34" DBH	GOOD
B	ENGLISH WALNUT, 46" DBH	GOOD, FAIR SHAPE
C	ENGLISH WALNUT, 36" DBH	GOOD
D	PIN OAK, 34" DBH	GOOD
E	BLACK WALNUT, 33" DBH	GOOD
F	WHITE ASH 30" DBH	POOR, EXTENSIVE DIEBACK. A SECONDARY TRUNK HAS BEEN REMOVED, ROT EVIDENT.
G	WHITE ASH 34" DBH	GOOD
H	RED MAPLE, 40" DBH	FAIR
I	RED MAPLE, 42" DBH	POOR, EXTENSIVE DIEBACK.
J	PIGNOT HICKORY, 34" DBH	GOOD
K	TULIP POPLAR, 30" DBH	GOOD
L	TULIP POPLAR, 32" DBH	GOOD
M	SYCAMORE, 30" DBH	GOOD
N	TULIP POPLAR, 31" DBH	GOOD
O	SYCAMORE, 55" DBH	GOOD, MULTI-STEM, CROWN SHAPE IS FAIR



LEGEND

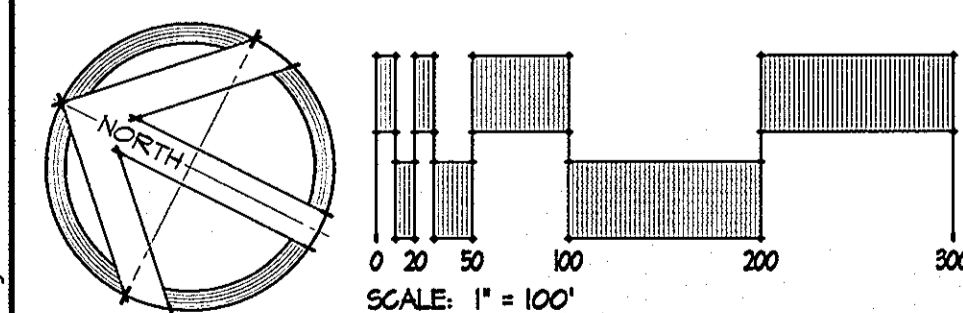
STEEP SLOPES 15%-25%

STEEP SLOPES >25%

STEEP SLOPES >25% AND 20,000 SF CONTIGUOUS

● SPECIMEN TREE TO REMAIN

○ SPECIMEN TREE TO BE REMOVED PER MP-10-113



APPROVED: DEPARTMENT OF PLANNING & ZONING

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 10/12/12

[Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 10/15/12

ADDRESS / PERMIT INFORMATION
 PARCEL 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

SITE RESOURCES
 INCORPORATED
 Comprehensive Land Planning & Site Design Services

16155 Ivyville Pike • Pikesville, Maryland 21111
 (410) 885-3338 • Fax (410) 885-3389

DES: JLH					
DRN: JLH					
CHK: SRI					
DATE: 08/10/12	BY NO.	REVISION	DATE	600' SCALE MAP NO.	51 BLOCK NO. 16

ENVIRONMENTAL CONCEPT PLAN
 EXISTING CONDITIONS

NOT FOR CONSTRUCTION

TROY PARK - PHASE ONE
 PART OF TROY HILL CORPORATE CENTER PHASE IIIB PARCELS A-21 AND A-22

CAPITAL PROJECT NO. N-395T
 HOWARD COUNTY, MARYLAND

SCALE: 1"=100'
 ECP 0.02
 SHEET 2 OF 4

2:10/0022-Troy Park Phase 1 Site Plan/02/10/12 ECP - 0.02 ECP - Concept/Planning/Local - 041 01/10/12 01:55pm .jfl

ECP-10-08 5108-114003



SITE AREA TABULATION

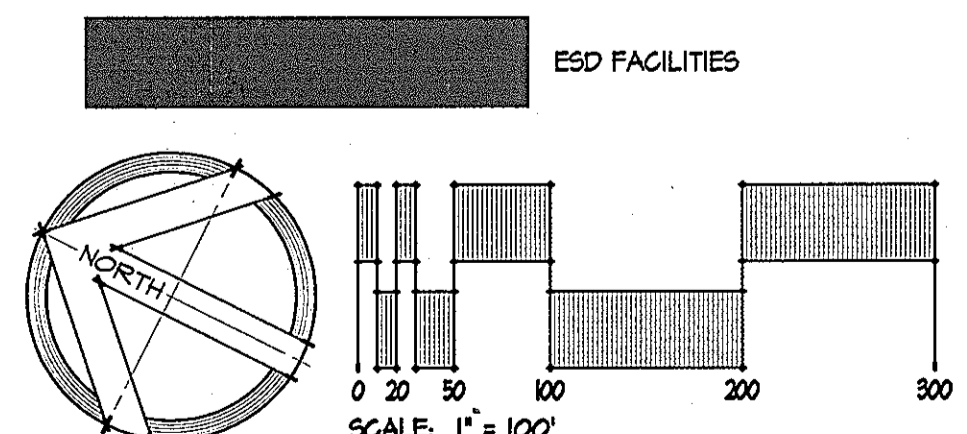
TOTAL LOD AREA	=	39.80 Ac
EX. IMPERVIOUS AREA	=	0.50 Ac
PROP. IMPERVIOUS AREA	=	2.25 Ac

STORMWATER MANAGEMENT STORAGE REQUIREMENTS

REQUIREMENT	VOLUME REQ'D (CUBIC FEET)	VOL. PROVID (CUBIC FEET)	NOTES
ESD	14,943	11,635	NON-ROOFTOP DISCONNECTION, MICRO-BIORETENTION, BIOSWALES
REV	2,441	2,642	MICRO-BIORETENTION AND BIOSWALES
CPV	-	-	PROVIDED IN ESD

TREATMENT SUMMARY TABLE

PRACTICE	DRAINAGE AREA (AC)	IMP. AREA TREATED (AC)	ESD VOL. PROVID (CF)	Pt TREATED (IN)
NON-ROOFTOP DISCONNECTION	0.68	0.44	1735	1.0
MICRO-BIORETENTION	1.45	0.76	7185	2.3
BIO-SWALES	2.38	1.00	4675	2.5



APPROVED: DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 10/15/12

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 10/15/12

ADDRESS / PERMIT INFORMATION
 PARCELS: 591, 545, 542, 536, 530, 525, 519, 513, LOT A-21, 195, LOT A-22
 ADDRESS: 6450 HANSON LANE
 LST1 / F. 44, L. 2585 / F. 351, L. 2205 / F. 910, L. 5185 / F. 600,
 L. 5241 / F. 15, L. 4935 / F. 431, L. 6125 / F. 640, L. 6185 / F. 640
 5804 / F. 15, 2085 / F. 15, 2085 / F. 15, 2085 / F. 15, 2085 / F. 15
 2ND ELECTION DISTRICT: 26955 TRACT 6012.02
 WATER CODE: 400, SEWER CODE: 282200

OWNER
 HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 1120 OAKLAND HILLS ROAD, COLUMBIA, MARYLAND 21046
 PHONE (410) 315-2700

DEVELOPER
 HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 1120 OAKLAND HILLS ROAD, COLUMBIA, MARYLAND 21046
 PHONE (410) 315-2700

SITE RESOURCES
 INCORPORATED
 Comprehensive Land Planning & Site Design Services

1615 Jannetteville Pike • Pikesville, Maryland 21111
 (410) 681-3388 • Fax (410) 681-3389

PREPARED OR APPROVED BY LIC. AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 1944, EXPIRES 09/30/12.

DES: J.L.H.			
DRN: J.L.H.			
CHK: S.R.I.			
DATE: 08/10/12	BY NO.	REVISION	DATE

**ENVIRONMENTAL CONCEPT PLAN
 ESC AND SWM**

600' SCALE MAP NO. 51 BLOCK NO. 16

NOT FOR CONSTRUCTION

TROY PARK - PHASE ONE
 PART OF TROY HILL CORPORATE CENTER PHASE IIIB PARCELS A-21 AND A-22

CAPITAL PROJECT NO. N-3457 HOWARD COUNTY, MARYLAND

SCALE: 1"=100'
 ECP 0.03
 SHEET 3 OF 4

2:10/00022-Troy Park Phase 1 Site Plan/08/10/12/001 ECP - SWM/03 ECP - Stormwater Management/10/15/12 04/10/12 04/10/12



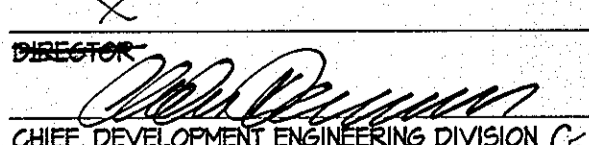
ESD DRAINAGE TABLE

ESD NO.	ESD USED	DRAINAGE AREA (FT ²)	IMPERVIOUS AREA (FT ²)	AF PVD (FT ³)	ESDV PVD (CUFT)
N-2-1	Disconnection Non-roof	1136	1136	-	74
N-2-2	Disconnection Non-roof	4053	4053	-	331
N-2-3	Disconnection Non-roof	8142	8142	-	642
N-2-4	Disconnection Non-roof	16208	8156	-	683
M-6-1	Micro-Bioretentation	21483	15210	1800	3230
M-6-2	Micro-Bioretentation	10134	4280	850	454
M-6-3	Micro-Bioretentation	15556	5950	1080	1203
M-6-10	Micro-Bioretentation	16220	8265	730	1105
M-8-1	BioSwales	14012	7610	1650	1643
M-8-2	BioSwales	6611	2551	660	571
M-8-3	BioSwales	11603	4430	1050	1074
M-8-4	BioSwales	14316	4480	1100	1121
M-8-5	BioSwales	8243	2740	460	635
M-8-6	BioSwales	10084	4846	720	436
M-8-7	BioSwales	9842	2340	630	564
M-8-8	BioSwales	12836	5420	1050	1213
M-8-4	BioSwales	16305	8084	1260	1638

TARGET ESDV = 14,943 CF
ESDV PROVIDED = 11,635 CF

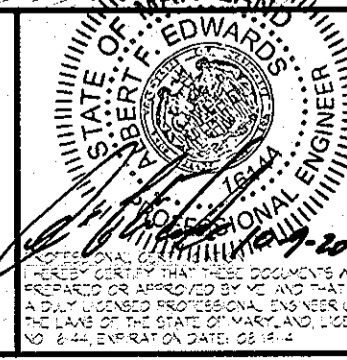
2:10/0022-Troy Park Phase 1 Site Plan/Drainage/2012/01/01/ESD_SAVONAL_DW_JMP/Eng-Layout1 Oct 01, 2012 04:52:00 .jif

APPROVED: DEPARTMENT OF PLANNING & ZONING


 CHIEF, DEVELOPMENT ENGINEERING DIVISION Cc
 10/13/12 DATE
 10/15/12 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT

ADDRESS / PERMIT INFORMATION
 PARCELS: 344, 345, 346, 356, 140, 155, 156 LOT A-21, B5 LOT A-22
 ADDRESS: 6450 MANSION LANE
 L1571 / F.44, L.2095 / F.301, L.2225 / F.340, L.5183 / F.600,
 L.5341 / F.18, L.4933 / F.431, L.4933 / F.640, L.6195 / F. 640
 6800 FT. 4.18, ZONE: M4, TAX MAP NO. 37
 2nd ELECTION DISTRICT: CD615 TRACT 6012.02
 OWNER: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 1122 OAKLAND HILLS ROAD, COLUMBIA, MARYLAND 21046
 PHONE (410) 335-2100
 DEVELOPER: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 1122 OAKLAND HILLS ROAD, COLUMBIA, MARYLAND 21046
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SITE RESOURCES
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 Comprehensive Land Planning & Site Design Services
 16315 Arretville Pike • Phoenix, Maryland 21114
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DES: JLH					
DRN: JLH					
CHK: AFE					
DATE: 08/12/12	BY	NO.	REVISION	DATE	

ESD DRAINAGE AREA PLAN

600' SCALE MAP NO. 5 BLOCK NO. 16

TROY PARK - PHASE ONE
 PART OF TROY HILL CORPORATE CENTER PHASE IIIB PARCELS A-21 AND A-22
 CAPITAL PROJECT NO. N-3457
 HOWARD COUNTY, MARYLAND
 EIP-10-008

SCALE: 1"=100'
 SWM-DAI
 SHEET 4 OF 64
 SDP-A-002A

