

BARRINGTON PLACE STREAM RESTORATION CONSTRUCTION DRAWINGS HARFORD COUNTY, MARYLAND

BID NO. 19-267

BEFORE YOU DIG CALL
1-800-257-7777 OR DIAL
811



HARFORD SOIL CONSERVATION DISTRICT
SMALL POND APPROVAL

W. R. R. R. 4/22/19
DISTRICT OFFICIAL DATE

TECHNICAL REVIEW FOR DISTRICT

Michael L. Rist 4/11/19
HARFORD COUNTY DEPT. OF PUBLIC WORKS DATE

GENERAL NOTES

1. TOPOGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. IN OCTOBER AND NOVEMBER 2014. COORDINATES SHOWN HERE ON ARE REFERRED TO MARYLAND COORDINATE SYSTEM (NAD 83/1991) AND ARE BASED ON RTK GPS VIRTUAL NETWORK. ELEVATIONS SHOWN HERE ON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD 88) AND ARE BASED ON RTK GPS VIRTUAL NETWORK.

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TRAV 1	670,527.66'	1,500,466.45'	311.78'	PK NAIL
TRAV 2	670,428.99'	1,500,325.09'	308.92'	PK NAIL
TRAV 3	669,969.70'	1,500,359.03'	311.27'	PK NAIL
TRAV 4	670,046.10'	1,500,262.81'	301.55'	PK NAIL
TRAV 5	670,123.35'	1,501,238.86'	338.00'	PK NAIL
TRAV 6	670,033.82'	1,501,264.95'	336.49'	PK NAIL
TRAV 7	670,308.07'	1,501,563.61'	351.59'	PK NAIL
TRAV 8	670,104.17'	1,501,640.73'	348.95'	PK NAIL

*ONLY THOSE CONTROL POINTS SHOWN HEREON SHALL BE USED FOR THE CONSTRUCTION OF THIS PROJECT.

- CONTOURS SHOWN OUTSIDE LIMIT OF WORK ARE BASED ON HARFORD COUNTY 2014 GIS TOPOGRAPHY.
- EXISTING UTILITIES SHOWN OUTSIDE THE LIMIT OF WORK ARE BASED ON HARFORD COUNTY GIS & HAVE NOT BEEN FIELD LOCATED.
- PROPERTY LINES AND EASEMENTS SHOWN ARE BASED ON HARFORD COUNTY 2013 CADASTRAL DATA.
- ONLY TREES WITH A 24" DIAMETER OR GREATER AND WITHIN THE LIMITS OF WORK WERE FIELD LOCATED.
- WETLAND DELINEATION WAS PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. ON 10/01/2014.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT PERMIT TRACKING NUMBER IS 16-NT-0024/20160068.
- THE STREAM IS AN UNNAMED TRIBUTARY TO PLUMTREE RUN (02130703) AND IS A USE IV-P STREAM WITH A STREAM CLOSURE PERIOD OF MARCH 1ST THROUGH MAY 31ST.
- THERE IS NO 100 YEAR FEMA FLOODPLAIN WITHIN THE LIMIT OF WORK.

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 INCLUDING ALL REVISIONS AND ADDITIONS UNLESS OTHERWISE NOTED.
- REFERENCES MADE TO STANDARDS ARE TAKEN FROM THE HARFORD COUNTY DEPARTMENT OF PUBLIC WORKS, BOOK OF STANDARD DETAILS AND FROM THE "MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES". IT WILL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE STANDARD DRAWINGS IN HIS POSSESSION ARE THE LATEST REVISED STANDARDS UP TO AND INCLUDING THE DATE OF ADVERTISEMENT OF THIS CONTRACT.
- THE EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO THEIR SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING UTILITIES SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" (1-800-257-7777) AND THE HARFORD COUNTY WATER AND SEWER DIVISION (410-638-3300) MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING AND/OR DIGGING FOR THE LOCATION OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND SEWER LINES.
- MECHANICAL EXCAVATION SHALL NOT BE CONDUCTED WITHIN 3 FEET HORIZONTALLY OR WITHIN 2 FEET VERTICALLY IF KNOWN UTILITY LOCATIONS. HAND OR SOFT DIGGING SHALL BE DONE WITHIN THESE LIMITS. UNDERGROUND UTILITIES, ONCE UNCOVERED, SHALL BE PROTECTED FROM BEING STRUCK BY EQUIPMENT.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- ALL DISTURBED AREAS SHALL HAVE PERMANENT OR TEMPORARY STABILIZATION COMPLETED WITHIN:
 - END OF THE WORK DAY FOR AREAS WITHIN WATERWAYS.
 - THREE CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS.
 - SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS.
- ALL DISTURBED AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH TEMPORARY SOIL STABILIZATION MATTING THAT HAS A SUFFICIENT DESIGN SHEAR STRESS FOR THE APPLICATION OR AS SHOWN ON THE APPROVED SEDIMENT AND EROSION CONTROL PLANS.
- ALL STAKING, RESTAKING, AND CUT SHEETS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH STATE OF MARYLAND OCCUPATIONAL SAFETY LAWS.
- ALL ROADS SHALL BE CLEANED AND CLEARED BY THE END OF EACH DAY. ANY MUD OR ROCKS TRACKED ON THE ROADWAYS SHALL BE SWEEPED BEFORE THE END OF SHIFT EACH DAY.
- CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE BUT NOT LIMITED TO GRASS AREAS, ROADS, PAVED AREAS, ETC.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE EXISTENCE OF PROPERTY MARKERS, KIPS, MONUMENTS, STAKES, ETC. THAT SHALL NOT BE DISTURBED. IN THE EVENT THESE MARKERS ARE REMOVED, DAMAGED OR DESTROYED BY THE CONTRACTOR, THEY SHALL BE REPLACED IN KIND BY A MARYLAND LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO GRADING PERMIT ISSUANCE ALL REQUIRED EASEMENTS & PERMISSIONS SHALL BE OBTAINED.
- ALL PROPOSED PIPES SHALL MEET THE FOLLOWING SPECIFICATIONS BASED ON THEIR APPLICATION UNLESS OTHERWISE SPECIFIED BY THE MD-378 CONSTRUCTION SPECIFICATIONS:
 - 6" PVC LOW FLOW OR POND DRAIN - SCHEDULE 80 TYPE S/SP MEETING M-304 OR M-252
 - 6" PVC UNDERDRAIN - SCHEDULE 40 TYPE S/SP MEETING M-304 OR M-252
 - 24" CORRUGATED PLASTIC PIPE (CPP) FOR STORMDRAINS - TYPE S

SHEET LIST TABLE

SHEET DESCRIPTION

1	COVER SHEET
2	KEY SHEET
3	TREE INVENTORY
4	GEOMETRY COORDINATES
5	GEOMETRY COORDINATES
6	GEOMETRY COORDINATES
7	GEOMETRY COORDINATES
8	GEOMETRY COORDINATES
9	GEOMETRY COORDINATES
10	GEOMETRY COORDINATES
11	EXISTING CONDITIONS - BARRINGTON PLACE TRIBUTARY
12	EXISTING CONDITIONS - BARRINGTON PLACE TRIBUTARY
13	EXISTING CONDITIONS - ROLLINS COURT TRIBUTARY
14	EXISTING CONDITIONS - ROLLINS COURT TRIBUTARY
15	EXISTING CONDITIONS - ROLLINS COURT TRIBUTARY
16	SITE PLAN - BARRINGTON PLACE TRIBUTARY
17	SITE PLAN - BARRINGTON PLACE TRIBUTARY
18	SITE PLAN - ROLLINS COURT TRIBUTARY
19	SITE PLAN - ROLLINS COURT TRIBUTARY
20	SITE PLAN - ROLLINS COURT TRIBUTARY
21	PROFILE - BARRINGTON PLACE TRIBUTARY
22	BARRINGTON PLACE SWM FACILITIES & DETAILS
23	PROFILE - ROLLINS COURT TRIBUTARY

SHEET LIST TABLE

SHEET DESCRIPTION

24	PROFILE - ROLLINS COURT TRIBUTARY
25	PROFILE - ROLLINS COURT BRANCH
26	PROFILE - ROLLINS COURT WETLAND & DETAILS
27	CROSS SECTIONS - BARRINGTON PLACE TRIBUTARY
28	CROSS SECTIONS - BARRINGTON PLACE TRIBUTARY
29	CROSS SECTIONS - BARRINGTON PLACE TRIBUTARY
30	CROSS SECTIONS - BARRINGTON PLACE TRIBUTARY
31	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
32	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
33	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
34	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
35	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
36	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
37	CROSS SECTIONS - ROLLINS COURT TRIBUTARY
38	CROSS SECTIONS - ROLLINS COURT TRIBUTARY BRANCH
39	STREAM DETAILS
40	NOTES & DETAILS
41	EROSION & SEDIMENT CONTROL KEY SHEET
42	EROSION & SEDIMENT CONTROL PLAN
43	EROSION & SEDIMENT CONTROL PLAN
44	EROSION & SEDIMENT CONTROL PLAN
45	EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION
46	EROSION & SEDIMENT CONTROL NOTES

SHEET LIST TABLE

SHEET DESCRIPTION

47	EROSION & SEDIMENT CONTROL DETAILS
48	PLANTING PLAN - BARRINGTON TRIBUTARY
49	PLANTING PLAN - BARRINGTON TRIBUTARY
50	PLANTING PLAN - ROLLINS COURT TRIBUTARY
51	PLANTING PLAN - ROLLINS COURT TRIBUTARY
52	PLANTING PLAN - ROLLINS COURT TRIBUTARY
53	PLANTING SCHEDULE & DETAILS

SEE SHEET 41 FOR SITE ANALYSIS AND NPDES ID POINTS



HARFORD COUNTY
ADC MAP COORDINATES:
MAP 23 GRID H-1

LOCATION MAP

SCALE: 1"=200'

OWNER

HARFORD COUNTY DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS AND STORMWATER MANAGEMENT
212 SOUTH BOND STREET, 3RD FLOOR
BEL AIR, MARYLAND 21014
CONTACT: GLEN HEBEL
PH: (410) 638-3509 EXT 1344

ENGINEER

BAYLAND CONSULTANTS & DESIGNERS, INC.
7455 NEW RIDGE ROAD, SUITE T
HANOVER, MARYLAND 21076
PH: 410-694-9401
FAX: 410-694-9405

LEGEND

TRAVERSE POINT

- EX. SPOT SHOT
- EX. PROPERTY LINE/RIGHT-OF-WAY
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. EDGE OF WATER
- EX. ROAD
- EX. TREELINE
- EX. TOP OF BANK
- EX. CHAINLINK FENCE
- EX. WOOD FENCE
- EX. 25' NON-TIDAL WETLAND BUFFER
- EX. NON-TIDAL WETLANDS
- EX. SEWER & MANHOLE
- EX. STORM DRAIN, INLET & MANHOLE

SOIL TEST PIT LOCATION

170347

S/C PLAN # 59822 GRA # 2743-2015

EG-SWMENG-000135-2015 #99974

Clear Creeks Consulting
1317 Knopp Road, Jarrettsville, Maryland 21084 (410) 692-2164

Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"
7455 New Ridge Road, Suite T Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405
Website: www.baylandinc.com
BAYLAND JOB NO. 4-3602



OWNER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC/ONSITE INSPECTION BY THE HARFORD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, OR AS DEEMED NECESSARY.

OWNER/DEVELOPER SIGNATURE *Joseph J. Siemek* DATE 2-27-17
JOSEPH J. SIEMEK, PE-DIRECTOR OF PUBLIC WORKS
PRINTED NAME

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

ENGINEER'S SIGNATURE *Christopher Stepp* DATE 3/1/17
CHRISTOPHER STEPP 33146
PRINTED NAME MD P.E. REGISTRATION NO.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

ENGINEER'S SIGNATURE DATE
PRINTED NAME MD P.E. REGISTRATION NO.

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

ACRONYMS

BF	BANKFULL	PR	PROPOSED
BLDG	BUILDING	RCB	ROLLINS COURT BRANCH
CFS	CUBIC FEET PER SECOND	RIF	RIFLE
CL	CLASS	RN	RUN
ELEV	ELEVATION	RS	RISER
ES	END SECTION	RTOB	RIGHT TOP OF BANK
EX	EXISTING	SD	STORM DRAIN
FP	FLOOD PRONE AREA	SPSC	STEP POOL STORM CONVEYANCE
FPS	FEET PER SECOND	SS	SANITARY SEWER
FT	FEET	STA	STATION
GU	GUIDE	STD	STANDARD
HORZ	HORIZONTAL	SWM	STORMWATER MANAGEMENT
HW	HEADWALL	TBR	TO BE REMOVED
IN	INCH	TR	TREE
INV	INVERT	TW	THALWEG
LTOB	LEFT TOP OF BANK	TYP	TYPICAL
MAX	MAXIMUM	VERT	VERTICAL
MIN	MINIMUM	W	WATER
NTS	NOT TO SCALE	W.S.E.	WATER SURFACE ELEVATION
O.C.	ON CENTER		
P	POOL		

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 33146, EXPIRATION DATE: 01/14/2019.

REVISIONS		HARFORD COUNTY, MARYLAND	
		BARRINGTON PLACE STREAM RESTORATION COVER SHEET	
DRAWN BY: MDD		CONTRACT NO.:	
DESIGNED BY: RP/MDD		SCALE: AS SHOWN	
REVIEWED BY: CJS		SHEET 1 OF 53	
		DATE: 02/01/17	

HARFORD SOIL CONSERVATION DISTRICT
SMALL POND APPROVAL

W. R. R. R. 4/5/17
DISTRICT OFFICIAL DATE

TECHNICAL REVIEW FOR DISTRICT

Michael L. Rist 3/24/17
HARFORD COUNTY DEPT. OF PUBLIC WORKS DATE

POND DESIGN CERTIFICATION FOR SMALL POND NUMBER

I CERTIFY THAT THIS DESIGN PLAN FOR THE CONSTRUCTION OF THE EMBANKMENT AND/OR EXCAVATED POND(S) REPRESENTS A HAZARD CLASS "A" POND(S) AND WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE USDA, NATURAL RESOURCES CONSERVATION SERVICE - MARYLAND STANDARDS AND SPECIFICATIONS FOR PONDS (MD-378). I HAVE REVIEWED THIS PLAN WITH THE OWNER/DEVELOPER.

SIGNATURE *Christopher Stepp*
NAME CHRISTOPHER STEPP
ADDRESS 7455 NEW RIDGE ROAD, SUITE T
HANOVER, MD 21076
MD P.E. LICENSE #33146
PHONE # (410) 694-9401



CAPITAL PROJECT APPROVAL

REVIEWED & APPROVAL RECOMMENDED

G. Hebel 7/6/17
PROJECT ENGINEER DATE

APPROVAL RECOMMENDED

C. M. Buckley 7/11/17
CHIEF ENGINEER DATE

APPROVAL RECOMMENDED

S. H. H. 07/11/17
DEPUTY DIRECTOR OF PUBLIC WORKS DATE

APPROVAL

G. Hebel 7-11-17
DIRECTOR OF PUBLIC WORKS DATE

SWM APPROVAL

HARFORD COUNTY BILLING NUMBER 99974
THESE PLANS HAVE BEEN REVIEWED BY HARFORD COUNTY AND MEET THE TECHNICAL REQUIREMENTS FOR STORMWATER MANAGEMENT ONLY.

REVIEWED & APPROVAL RECOMMENDED

P. Bruce Gopell 4/13/17
WATER RESOURCES ENGINEERING DATE

APPROVAL RECOMMENDED

Michael L. Rist 4/13/17
CHIEF ENGINEER DATE

APPROVAL RECOMMENDED

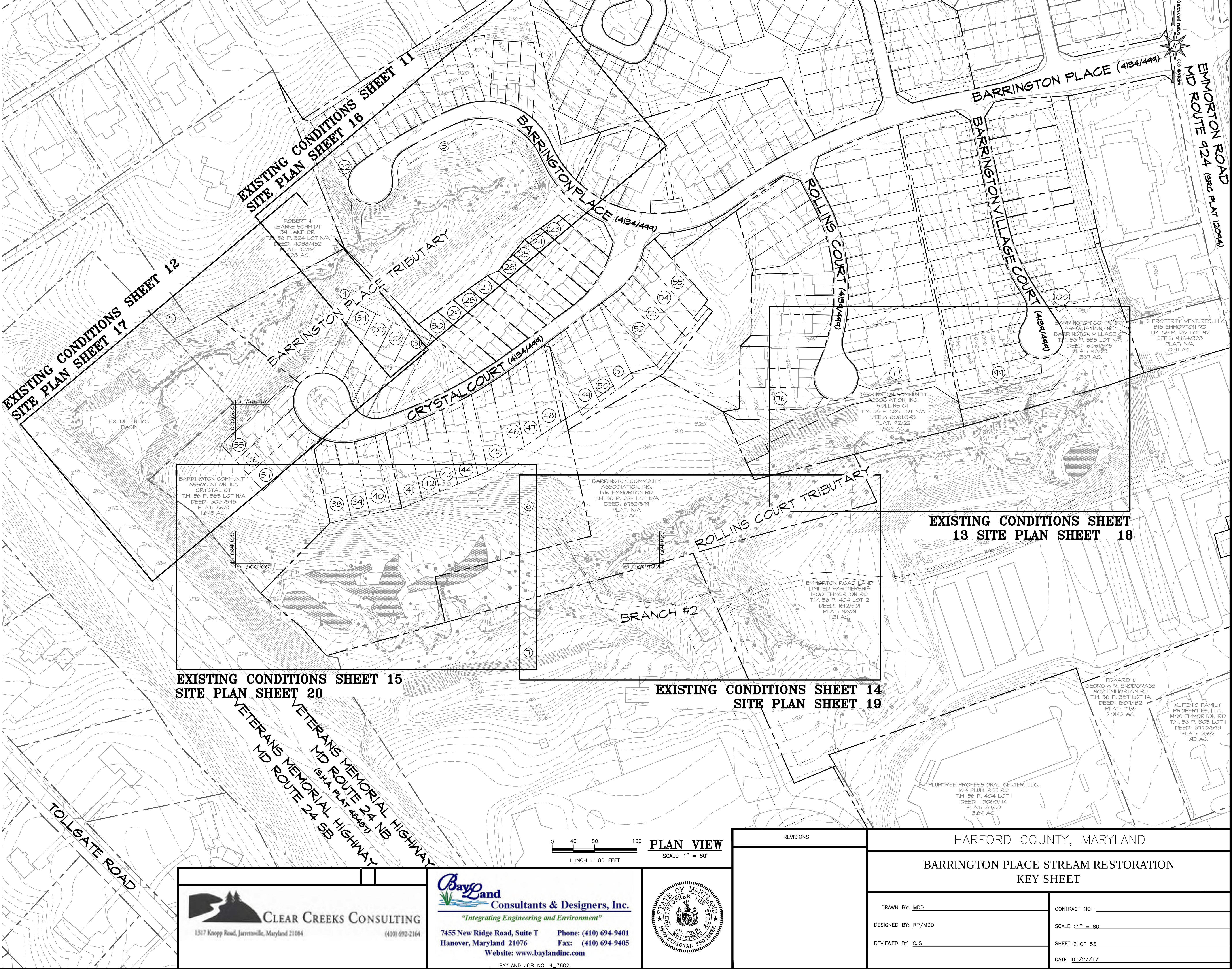
S. H. H. 04/04/17
DEPUTY DIRECTOR OF PUBLIC WORKS DATE

APPROVAL

G. Hebel 4.4.17
DIRECTOR OF PUBLIC WORKS DATE

PARCEL TABLE	
NO.	PARCEL INFO.
3	BARRINGTON COMMUNITY ASSOCIATION, INC. BARRINGTON PL. T.M. 56 P. 585 LOT N/A DEED: 6061/545 PLAT: 96/57 4.053 AC.
4	BARRINGTON COMMUNITY ASSOCIATION, INC. CRYSTAL CT. T.M. 56 P. 585 LOT N/A DEED: 6061/545 PLAT: 82/3 1.18 AC.
5	RICHARD O. COOK ET. AL. TOLLGATE ROAD T.M. 56 P. 602 LOT N/A DEED: 11655/12 PLAT: N/A 2.70 AC.
6	BARRINGTON COMMUNITY ASSOCIATION, INC. CRYSTAL CT. T.M. 56 P. 585 LOT N/A DEED: 6061/545 PLAT: 82/3 2.852 AC.
7	EMMORTON BAPTIST CHURCH 106A PLUMTREE RD. T.M. 56 P. 28 LOT N/A DEED: 1000/210 PLAT: N/A 10.399 AC.
22	MICHAEL D. FAIRCLOTH 76 BARRINGTON PL. T.M. 56 P. 585 LOT 22 DEED: 2858/742 PLAT: 82/2 0.08 AC.
23	DAN N. MD & MARY ANN GOLDSTEIN (CO-TRUSTEES) 50 CRYSTAL CT. T.M. 56 P. 585 LOT 23 DEED: 7857/19 PLAT: 82/2 0.13 AC.
24	ROBERTA XEGA 52 CRYSTAL CT. T.M. 56 P. 585 LOT 24 DEED: 10505/113 PLAT: 82/2 0.12 AC.
25	DONNA B. WELSH & CATHERINE B. CAMBER (TRUSTEE) 54 CRYSTAL CT. T.M. 56 P. 585 LOT 25 DEED: 1162/331 PLAT: 82/2 0.13 AC.
26	DORIS GEIER-LOCKWOOD ET. AL. 56 CRYSTAL CT. T.M. 56 P. 585 LOT 26 DEED: 7922/95 PLAT: 82/2 0.14 AC.
27	MARY ELISE MC HUGH 58 CRYSTAL CT. T.M. 56 P. 585 LOT 27 DEED: 9226/371 PLAT: 82/2 0.14 AC.
28	SHEILA I. JACOBS 60 CRYSTAL CT. T.M. 56 P. 585 LOT 28 DEED: 3132/202 PLAT: 82/2 0.12 AC.
29	Alice M. MARZICOLA 62 CRYSTAL CT. T.M. 56 P. 585 LOT 29 DEED: 9151/136 PLAT: 82/2 0.12 AC.
30	ALBERT L. & CONNIE BLUMBERG 64 CRYSTAL CT. T.M. 56 P. 585 LOT 30 DEED: 2459/245 PLAT: 82/2 0.12 AC.
31	JERRY N. & MADELINE G. DAY 66 CRYSTAL CT. T.M. 56 P. 585 LOT 31 DEED: 2484/1000 PLAT: 82/3 0.16 AC.
32	WALTER ALLEN TILLEY III 68 CRYSTAL CT. T.M. 56 P. 585 LOT 32 DEED: 7142/697 PLAT: 82/3 0.15 AC.
33	PETER F. & JUNE ALERA (TRUSTEES) 70 CRYSTAL CT. T.M. 56 P. 585 LOT 33 DEED: 7280/684 PLAT: 82/3 0.13 AC.
34	JOHN J. & MARLENE SCHAUB 72 CRYSTAL CT. T.M. 56 P. 585 LOT 34 DEED: 2464/485 PLAT: 82/3 0.13 AC.
35	RAYMOND J. & BRENDA VOGL 79 CRYSTAL CT. T.M. 56 P. 585 LOT 35 DEED: 2562/690 PLAT: 86/3 0.15 AC.
36	FRANK & MARY SPECIALE 77 CRYSTAL CT. T.M. 56 P. 585 LOT 36 DEED: 10277/440 PLAT: 86/3 0.12 AC.
37	MARK A. & SUSAN L. JOSLIN (TRUSTEES) 75 CRYSTAL CT. T.M. 56 P. 585 LOT 37 DEED: 10411/222 PLAT: 86/3 0.13 AC.
38	EDWARD H. JR. & PATRICIA A. WALKER 73 CRYSTAL CT. T.M. 56 P. 585 LOT 38 DEED: 2567/01 PLAT: 82/3 0.14 AC.
39	JEANNE BECKMAN 71 CRYSTAL CT. T.M. 56 P. 585 LOT 39 DEED: 10565/112 PLAT: 82/3 0.12 AC.
40	MELVIN JAMES, JR. & NANCY L. DIXON 69 CRYSTAL CT. T.M. 56 P. 585 LOT 40 DEED: 2536/413 PLAT: 82/3 0.13 AC.

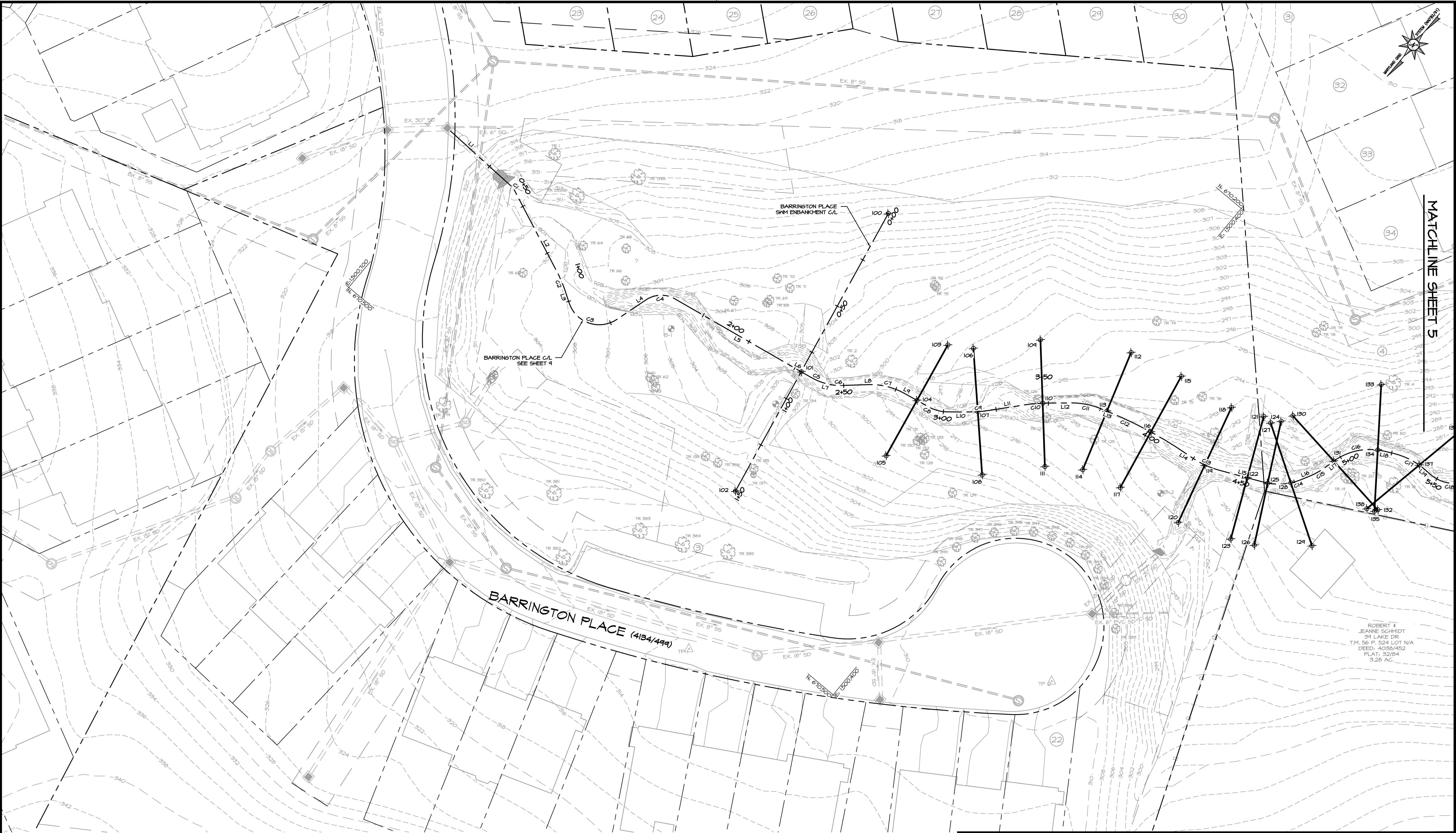
PARCEL TABLE	
NO.	PARCEL INFO.
41	MARY D. DEYESU 67 CRYSTAL CT. T.M. 56 P. 585 LOT 41 DEED: 2410/422 PLAT: 82/3 0.14 AC.
42	CHUCK & ANN M. WIENCKOWSKI 65 CRYSTAL CT. T.M. 56 P. 585 LOT 42 DEED: 9737/445 PLAT: 82/3 0.12 AC.
43	MARTIN L. & PATRICIA A. BURCH 63 CRYSTAL CT. T.M. 56 P. 585 LOT 43 DEED: 6375/407 PLAT: 82/3 0.12 AC.
44	DAWN MARIE SHIFLET 61 CRYSTAL CT. T.M. 56 P. 585 LOT 44 DEED: 11461/430 PLAT: 82/3 0.14 AC.
45	LEJEUNE, R. PYLE (TRUSTEE) 59 CRYSTAL CT. T.M. 56 P. 585 LOT 45 DEED: 11278/363 PLAT: 82/3 0.14 AC.
46	WILLIAM E. & GERALDINE H. VON DEN BOSCH 57 CRYSTAL CT. T.M. 56 P. 585 LOT 46 DEED: 2369/687 PLAT: 82/3 0.12 AC.
47	H. CHARLES & MARTA MITCHELL 55 CRYSTAL CT. T.M. 56 P. 585 LOT 47 DEED: 2380/757 PLAT: 82/3 0.12 AC.
48	ARTHUR W. BELL 53 CRYSTAL CT. T.M. 56 P. 585 LOT 48 DEED: 2358/552 PLAT: 82/3 0.14 AC.
49	NANCY M. EDWARDS (TRUSTEE) 51 CRYSTAL CT. T.M. 56 P. 585 LOT 49 DEED: 9317/422 PLAT: 96/58 0.14 AC.
50	PAUL M. & MARY ANNE LIBERTINE 49 CRYSTAL CT. T.M. 56 P. 585 LOT 50 DEED: 9217/68 PLAT: 96/58 0.13 AC.
51	ANTHONY S. & DORIS W. SPERANDEO 47 CRYSTAL CT. T.M. 56 P. 585 LOT 51 DEED: 2982/427 PLAT: 96/58 0.14 AC.
52	MABEL GARRITY STURR (TRUSTEE) 45 CRYSTAL CT. T.M. 56 P. 585 LOT 52 DEED: 4456/409 PLAT: 96/58 0.15 AC.
53	COLLEEN E. KAHOE 43 CRYSTAL CT. T.M. 56 P. 585 LOT 53 DEED: 9677/313 PLAT: 96/58 0.13 AC.
54	MARY R. BUCCI 41 CRYSTAL CT. T.M. 56 P. 585 LOT 54 DEED: 11243/222 PLAT: 96/58 0.13 AC.
55	JOHN LOUIS CITRO 39 CRYSTAL CT. T.M. 56 P. 585 LOT 55 DEED: 2611/906 PLAT: 69/28 0.15 AC.
76	ROBERT G. & CATHERINE D. PRESTON 1816 ROLLINS CT. T.M. 56 P. 585 LOT 76 DEED: 6777/433 PLAT: 99/34 0.14 AC.
77	MARGUERITE L. HEUMAN (TRUSTEE) 1819 ROLLINS CT. T.M. 56 P. 585 LOT 77 DEED: 2950/177 PLAT: 92/22 0.13 AC.
99	JOE N. & REBECCA G. ROSS 1824 BARRINGTON VILLAGE CT. T.M. 56 P. 585 LOT 99 DEED: 3110/528 PLAT: 92/23 0.13 AC.
100	JAMES R. & MARCELLA A. DE CAPIT 1819 BARRINGTON VILLAGE CT. T.M. 56 P. 585 LOT 100 DEED: 7128/46 PLAT: 92/23 0.10 AC.



TREE ID	SPECIES COMMON NAME	SPECIES BOTANICAL NAME	DIAMETER (INCHES)	REMOVED
1	BLACK WALNUT	JUGLANS NIGRA	24.2	
2	BLACK WALNUT	JUGLANS NIGRA	29.3	TBR
3	TULIP POPLAR	LIRODENDRON TULIPIFERA	38.2	
4	RED OAK	QUERCUS RUBRA	50.8	
5	WHITE OAK	QUERCUS ALBA	29	
6	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.6	TBR
7	WHITE OAK	QUERCUS ALBA	32.2	
8	WHITE OAK	QUERCUS ALBA	28.3	
9	BLACK GUM	NYSSA SYLVATICA	24.5	
10	BLACK GUM	NYSSA SYLVATICA	26.3	
11	TULIP POPLAR	LIRODENDRON TULIPIFERA	49.5	
12	WHITE OAK	QUERCUS ALBA	27	
13	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	4.3	
14	TULIP POPLAR	LIRODENDRON TULIPIFERA	35.5	
15	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	32	
16	BLACK WALNUT	JUGLANS NIGRA	36.6	
17	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	33.4	TBR
18	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	50.2	
19	TULIP POPLAR	LIRODENDRON TULIPIFERA	35.6	
20	TULIP POPLAR	LIRODENDRON TULIPIFERA	38	
21	TULIP POPLAR	LIRODENDRON TULIPIFERA	28.3	
22	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.3	
23	SILVER MAPLE	ACER SACCHARINUM	27.3	
25	SILVER MAPLE	ACER SACCHARINUM	25.7	
26	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	24.1	
27	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	25.8	
28	RED MAPLE	ACER RUBRUM	28.3	
29	WHITE OAK	QUERCUS ALBA	30	
30	WHITE OAK	QUERCUS ALBA	41.5	
31	AMERICAN BEECH	FAGUS GRANDIFOLIA	33	
32	TULIP POPLAR	LIRODENDRON TULIPIFERA	30	
33	BLACK WALNUT	JUGLANS NIGRA	29.7	
34	BLACK GUM	NYSSA SYLVATICA	33.5	
35	TULIP POPLAR	LIRODENDRON TULIPIFERA	27	
36	WHITE OAK	QUERCUS ALBA	33	
37	TULIP POPLAR	LIRODENDRON TULIPIFERA	26	
38	TULIP POPLAR	LIRODENDRON TULIPIFERA	28.7	
39	TULIP POPLAR	LIRODENDRON TULIPIFERA	26	
40	TULIP POPLAR	LIRODENDRON TULIPIFERA	33.5	
41	TULIP POPLAR	LIRODENDRON TULIPIFERA	30	
42	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.8	
43	TULIP POPLAR	LIRODENDRON TULIPIFERA	37.6	
44	TULIP POPLAR	LIRODENDRON TULIPIFERA	31.5	
45	AMERICAN BEECH	FAGUS GRANDIFOLIA	28.6	
46	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.5	
47	TULIP POPLAR	LIRODENDRON TULIPIFERA	31	
48	AMERICAN BEECH	FAGUS GRANDIFOLIA	25	
49	RED OAK	QUERCUS RUBRA	37	
50	TULIP POPLAR	LIRODENDRON TULIPIFERA	24.5	
51	TULIP POPLAR	LIRODENDRON TULIPIFERA	24	
52	TULIP POPLAR	LIRODENDRON TULIPIFERA	24	TBR
53	AMERICAN BEECH	FAGUS GRANDIFOLIA	28.4	
54	RED MAPLE	ACER RUBRUM	34.6	
55	WHITE OAK	QUERCUS ALBA	31.2	
56	WHITE OAK	QUERCUS ALBA	32.8	
57	HICKORY	CARYA SP.	25	
58	TULIP POPLAR	LIRODENDRON TULIPIFERA	24.5	
59	HICKORY	CARYA SP.	24	
60	RED MAPLE	ACER RUBRUM	18.9	
61	BLACK WALNUT	JUGLANS NIGRA	15.3	
62	BLACK WALNUT	JUGLANS NIGRA	15.5	
63	BLACK WALNUT	JUGLANS NIGRA	16.8	
64	HICKORY	CARYA SP.	15.7	TBR
65	HICKORY	CARYA SP.	17.1	
66	HICKORY	CARYA SP.	23.2	TBR
67	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	19.1	TBR
68	TULIP POPLAR	LIRODENDRON TULIPIFERA	14.6	TBR
69	TULIP POPLAR	LIRODENDRON TULIPIFERA	18.8	TBR
70	TULIP POPLAR	LIRODENDRON TULIPIFERA	16.1	TBR
71	TULIP POPLAR	LIRODENDRON TULIPIFERA	21.6	TBR
72	TULIP POPLAR	LIRODENDRON TULIPIFERA	12.7	
73	TULIP POPLAR	LIRODENDRON TULIPIFERA	14	
74	TULIP POPLAR	LIRODENDRON TULIPIFERA	19.5	
75	BLACK WALNUT	JUGLANS NIGRA	21.2	
76	HICKORY	CARYA SP.	13.2	
77	BLACK WALNUT	JUGLANS NIGRA	20.2	TBR
78	WHITE OAK	QUERCUS ALBA	16.7	
79	HICKORY	CARYA SP.	17.3	
80	BLACK GUM	NYSSA SYLVATICA	14.5	TBR
81	BLACK GUM	NYSSA SYLVATICA	14.6	TBR
82	HICKORY	CARYA SP.	22.7	
83	BLACK CHERRY	PRUNUS SEROTINA	12	
84	WHITE OAK	QUERCUS ALBA	19.4	
85	AMERICAN BEECH	FAGUS GRANDIFOLIA	21.1	
86	RED MAPLE	ACER RUBRUM	26.7	
87	TULIP POPLAR	LIRODENDRON TULIPIFERA	16.1	TBR
88	WHITE OAK	QUERCUS ALBA	23	
89	RED MAPLE	ACER RUBRUM	15	TBR
90	BLACK GUM	NYSSA SYLVATICA	12.2	
91	AMERICAN BEECH	FAGUS GRANDIFOLIA	22.9	
92	BLACK GUM	NYSSA SYLVATICA	13.9	
93	RED OAK	ACER RUBRUM	18	
94	HICKORY	CARYA SP.	18	
95	RED MAPLE	ACER RUBRUM	18.5	
96	AMERICAN BEECH	FAGUS GRANDIFOLIA	22.4	

TREE ID	SPECIES COMMON NAME	SPECIES BOTANICAL NAME	DIAMETER (INCHES)	REMOVED
97	RED MAPLE	ACER RUBRUM	24.4	
98	BLACK MAPLE	ACER RUBRUM	20.1	
99	HICKORY	CARYA SP.	20.2	
100	HICKORY	CARYA SP.	13.6	TBR
101	WHITE OAK	QUERCUS ALBA	19.4	
102	PRINCESS TREE	PAULOWNIA TOMENTOSA	20.2	
103	AMERICAN BEECH	FAGUS GRANDIFOLIA	21.5	
104	PRINCESS TREE	PAULOWNIA TOMENTOSA	11.5	
105	PRINCESS TREE	PAULOWNIA TOMENTOSA	18	
106	BLACK CHERRY	PRUNUS SEROTINA	14.4	
107	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	18.5	
108	TULIP POPLAR	LIRODENDRON TULIPIFERA	13.3	
109	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	17.1	
110	HICKORY	CARYA SP.	12.5	TBR
111	RED MAPLE	ACER RUBRUM	17.8	
112	RED MAPLE	ACER RUBRUM	22.9	
113	BLACK GUM	NYSSA SYLVATICA	16	
114	BLACK GUM	NYSSA SYLVATICA	18.6	
115	RED MAPLE	ACER RUBRUM	13.6	
116	BLACK GUM	NYSSA SYLVATICA	14.1	
117	BLACK CHERRY	PRUNUS SEROTINA	11.9	
118	RED MAPLE	ACER RUBRUM	16.2	
119	RED MAPLE	ACER RUBRUM	20.6	
120	HICKORY	CARYA SP.	23.3	
121	HICKORY	CARYA SP.	15.8	
122	HICKORY	CARYA SP.	18.7	
123	BLACK CHERRY	PRUNUS SEROTINA	23	
124	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	19	
125	BLACK WALNUT	JUGLANS NIGRA	20.3	
126	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	23	TBR
127	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	15	TBR
128	BLACK CHERRY	PRUNUS SEROTINA	16	TBR
129	BLACK WALNUT	JUGLANS NIGRA	15.5	
130	TULIP POPLAR	LIRODENDRON TULIPIFERA	16.7	TBR
131	TULIP POPLAR	LIRODENDRON TULIPIFERA	12.3	TBR
132	TULIP POPLAR	LIRODENDRON TULIPIFERA	12.6	TBR
133	TULIP POPLAR	LIRODENDRON TULIPIFERA	14.9	TBR
134	BLACK CHERRY	PRUNUS SEROTINA	19.7	TBR
135	PRINCESS TREE	PAULOWNIA TOMENTOSA	13.9	TBR
137	PRINCESS TREE	PAULOWNIA TOMENTOSA	10.8	TBR
138	PRINCESS TREE	PAULOWNIA TOMENTOSA	13.9	
139	WHITE OAK	QUERCUS ALBA	17.9	
140	RED MAPLE	ACER RUBRUM	10.5	
141	BLACK WALNUT	JUGLANS NIGRA	12.3	
142	AMERICAN BEECH	FAGUS GRANDIFOLIA	18.4	
143	AMERICAN BEECH	FAGUS GRANDIFOLIA	16.3	
144	TULIP POPLAR	LIRODENDRON TULIPIFERA	19.8	
145	AMERICAN BEECH	FAGUS GRANDIFOLIA	18.4	
146	RED MAPLE	ACER RUBRUM	19.8	
147	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.9	
148	TULIP POPLAR	LIRODENDRON TULIPIFERA	21.7	
149	WHITE OAK	QUERCUS ALBA	20.8	
150	TULIP POPLAR	LIRODENDRON TULIPIFERA	19.6	
151	WHITE OAK	QUERCUS ALBA	27.7	
152	WHITE OAK	QUERCUS ALBA	19.2	
153	AMERICAN BEECH	FAGUS GRANDIFOLIA	18	
154	TULIP POPLAR	LIRODENDRON TULIPIFERA	38.9	
155	AMERICAN BEECH	FAGUS GRANDIFOLIA	27.3	
156	RED MAPLE	ACER RUBRUM	16.4	
157	HICKORY	CARYA SP.	21	
158	RED MAPLE	ACER RUBRUM	17.5	
159	AMERICAN BEECH	FAGUS GRANDIFOLIA	14.7	
160	TULIP POPLAR	LIRODENDRON TULIPIFERA	19.7	
161	TULIP POPLAR	LIRODENDRON TULIPIFERA	21.3	
163	TULIP POPLAR	LIRODENDRON TULIPIFERA	16.9	
164	TULIP POPLAR	LIRODENDRON TULIPIFERA	26.4	
165	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.2	
166	TULIP POPLAR	LIRODENDRON TULIPIFERA	19.3	
167	AMERICAN BEECH	FAGUS GRANDIFOLIA	24.6	
168	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.3	
169	TULIP POPLAR	LIRODENDRON TULIPIFERA	17.9	
170	BLACK GUM	NYSSA SYLVATICA	28.3	
171	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.2	
172	TULIP POPLAR	LIRODENDRON TULIPIFERA	18.2	
173	HICKORY	CARYA SP.	22.6	
174	TULIP POPLAR	LIRODENDRON TULIPIFERA	28	
175	BLACK GUM	NYSSA SYLVATICA	23.6	
176	HICKORY	CARYA SP.	19.6	TBR
177	BLACK GUM	NYSSA SYLVATICA	13.8	
178	AMERICAN BEECH	FAGUS GRANDIFOLIA	18	TBR
179	TULIP POPLAR	LIRODENDRON TULIPIFERA	23	
180	HICKORY	CARYA SP.	21.1	
181	TULIP POPLAR	LIRODENDRON TULIPIFERA	24.9	
182	BLACK GUM	NYSSA SYLVATICA	21.5	
183	RED OAK	QUERCUS RUBRA	16.8	

TREE ID	SPECIES COMMON NAME	SPECIES BOTANICAL NAME	DIAMETER (INCHES)	REMOVED
184	AMERICAN BEECH	FAGUS GRANDIFOLIA	20	
185	HICKORY	CARYA SP.	13.4	
186	WHITE OAK	QUERCUS ALBA	18.9	
187	HICKORY	CARYA SP.	20.1	
188	TULIP POPLAR	LIRODENDRON TULIPIFERA	18.6	
189	WHITE OAK	QUERCUS ALBA	22.2	
190	TULIP POPLAR	LIRODENDRON TULIPIFERA	27.9	
191	TULIP POPLAR	LIRODENDRON TULIPIFERA	20.6	
192	HICKORY	CARYA SP.	19	
193	RED OAK	QUERCUS RUBRA	15.6	
194	AMERICAN BEECH	FAGUS GRANDIFOLIA	15.5	
195	RED MAPLE	ACER RUBRUM	17.3	
196	AMERICAN BEECH	FAGUS GRANDIFOLIA	19.8	
197	TULIP POPLAR	LIRODENDRON TULIPIFERA	20.8	
198	TULIP POPLAR	LIRODENDRON TULIPIFERA	24.3	
199	TULIP POPLAR	LIRODENDRON TULIPIFERA	22	
200	TULIP POPLAR	LIRODENDRON TULIPIFERA	22.6	
201	TULIP POPLAR	LIRODENDRON TULIPIFERA	20.3	
202	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.9	
203	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.5	
204	TULIP POPLAR	LIRODENDRON TULIPIFERA	17	
205	WHITE OAK	QUERCUS ALBA	23.5	
206	RED OAK	QUERCUS RUBRA	30	
207	HICKORY	CARYA SP.	27.4	
208	RED OAK	QUERCUS RUBRA	20.2	
209	RED MAPLE	ACER RUBRUM	25.3	
210	TULIP POPLAR	LIRODENDRON TULIPIFERA	24	
211	BLACK GUM	NYSSA SYLVATICA	21.7	
212	HICKORY	CARYA SP.	25.1	
213	AMERICAN BEECH	FAGUS GRANDIFOLIA	13.7	
214	TULIP POPLAR	LIRODENDRON TULIPIFERA	31.4	
215	BLACK GUM	NYSSA SYLVATICA	25.5	
216	TULIP POPLAR	LIRODENDRON TULIPIFERA	34.5	
217	TULIP POPLAR	LIRODENDRON TULIPIFERA	22.5	
218	TULIP POPLAR	LIRODENDRON TULIPIFERA	30.6	
219	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.6	
220	RED OAK	QUERCUS RUBRA	17	
221	TULIP POPLAR	LIRODENDRON TULIPIFERA	22.2	
222	TULIP POPLAR	LIRODENDRON TULIPIFERA	28.8	
223	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.3	
224	RED OAK	QUERCUS RUBRA	23.4	
225	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.6	
226	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	24.8	
227	TULIP POPLAR	LIRODENDRON TULIPIFERA	30.2	
228	TULIP POPLAR	LIRODENDRON TULIPIFERA	27.5	
229	TULIP POPLAR	LIRODENDRON TULIPIFERA	29	
230	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.3	
231	AMERICAN BEECH	FAGUS GRANDIFOLIA	19.1	
232	RED OAK	QUERCUS RUBRA	24	TBR
233	BLACK GUM	NYSSA SYLVATICA	14.2	TBR
234	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.1	
235	TULIP POPLAR	LIRODENDRON TULIPIFERA	25.5	
236	RED MAPLE	ACER RUBRUM	18.3	
237	RED OAK	ACER RUBRUM	16.3	
238	BLACK GUM	NYSSA SYLVATICA	18.3	
239	TULIP POPLAR	LIRODENDRON TULIPIFERA	27.8	
240	RED MAPLE	ACER RUBRUM	14.2	
241	TULIP POPLAR	LIRODENDRON TULIPIFERA	21.2	
242	TULIP POPLAR	LIRODENDRON TULIPIFERA	22.9	
243	AMERICAN BEECH	FAGUS GRANDIFOLIA	21.2	
244	AMERICAN BEECH	FAGUS GRANDIFOLIA	18	
245	TULIP POPLAR	LIRODENDRON TULIPIFERA	33.7	
246	TULIP POPLAR	LIRODENDRON TULIPIFERA	29.3	
247	AMERICAN BEECH	FAGUS GRANDIFOLIA	27	
248	TULIP POPLAR	LIRODENDRON TULIPIFERA	26	
249	RED OAK	ACER RUBRUM	33	
250	TULIP POPLAR	LIRODENDRON TULIPIFERA	22.8	
251	HICKORY	CARYA SP.	18	
252	TULIP POPLAR	LIRODENDRON TULIPIFERA	20.6	
253	TULIP POPLAR	LIRODENDRON TULIPIFERA	31.9	
254	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.5	
255	BLACK GUM	NYSSA SYLVATICA	13.1	TBR
256	TULIP POPLAR	LIRODENDRON TULIPIFERA	33.7	
257	AMERICAN BEECH	FAGUS GRANDIFOLIA	19.2	
258	TULIP POPLAR	LIRODENDRON TULIPIFERA	36.9	
259	RED MAPLE	ACER RUBRUM	13.4	
260	BLACK GUM	NYSSA SYLVATICA	20.8	
261	AMERICAN BEECH	FAGUS GRANDIFOLIA	11.1	
262	BLACK GUM	NYSSA SYLVATICA	15.4	
263	BLACK GUM	NYSSA SYLVATICA	15.3	
264	BLACK GUM	NYSSA SYLVATICA	28.2	
265	TULIP POPLAR	LIRODENDRON TULIPIFERA	23.6	TBR
266	RED MAPLE	ACER RUBRUM	21.7	
267	AMERICAN BEECH	FAGUS GRANDIFOLIA	12.9	TBR
268	BLACK GUM	NYSSA SYLVATICA	19	



MATCHLINE SHEET 5

TAX MAP :

HCG BILLING ID No.:

HCG DWG ID No.:

SCALE: 1"=20'

EG-SWMENG-000135-2015 #99974



CLEAR CREEKS CONSULTING
1317 Knopp Road, Jarrettsville, Maryland 21084
(410) 692-2164



BayLand
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"Integrating Engineering and Environment"

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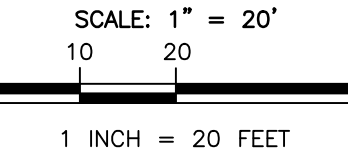


REVISIONS	

HARFORD COUNTY, MARYLAND	
BARRINGTON PLACE STREAM RESTORATION GEOMETRY COORDINATES	
DRAWN BY: MDD	CONTRACT NO. :
DESIGNED BY: RP/MDD	SCALE : 1" = 20'
REVIEWED BY: CJS	SHEET 4 OF 53
	DATE : 06/01/17



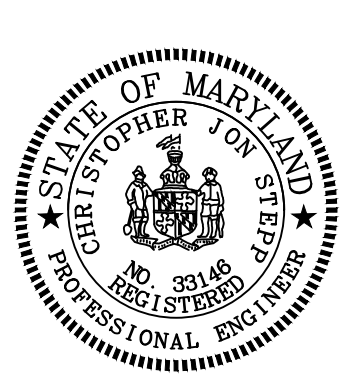
PLAN VIEW



EG-SWMENG-000135-2015 #99974

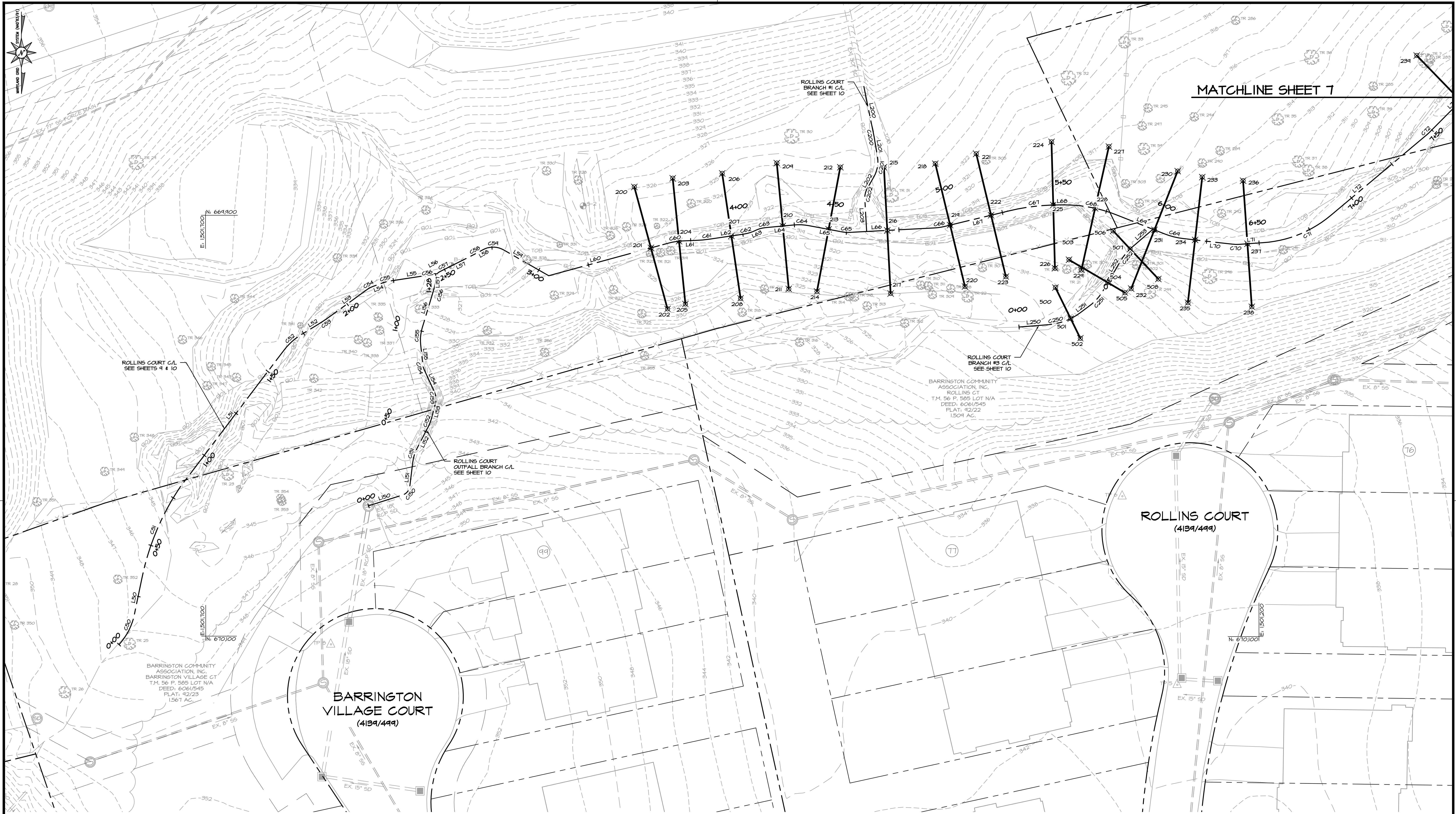
CLEAR CREEKS CONSULTING
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Hanover, Maryland 21076 Fax: (410) 694-9405
Website: www.baylandinc.com
BAYLAND JOB NO. 4_3602



REVISIONS	

HARFORD COUNTY, MARYLAND	
BARRINGTON PLACE STREAM RESTORATION GEOMETRY COORDINATES	
DRAWN BY: MDD	CONTRACT NO. :
DESIGNED BY: RP/MDD	SCALE : 1" = 20'
REVIEWED BY: CJS	SHEET 5 OF 53
	DATE : 01/27/17



PLAN VIEW

SCALE: 1" = 20'
0 10 20 40
1 INCH = 20 FEET

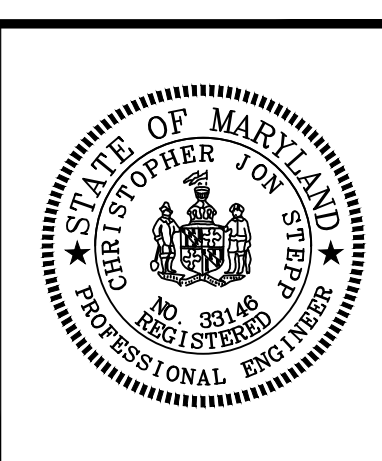
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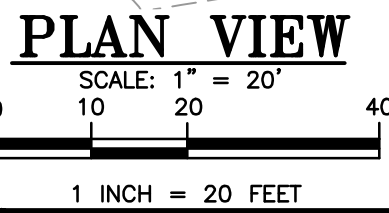
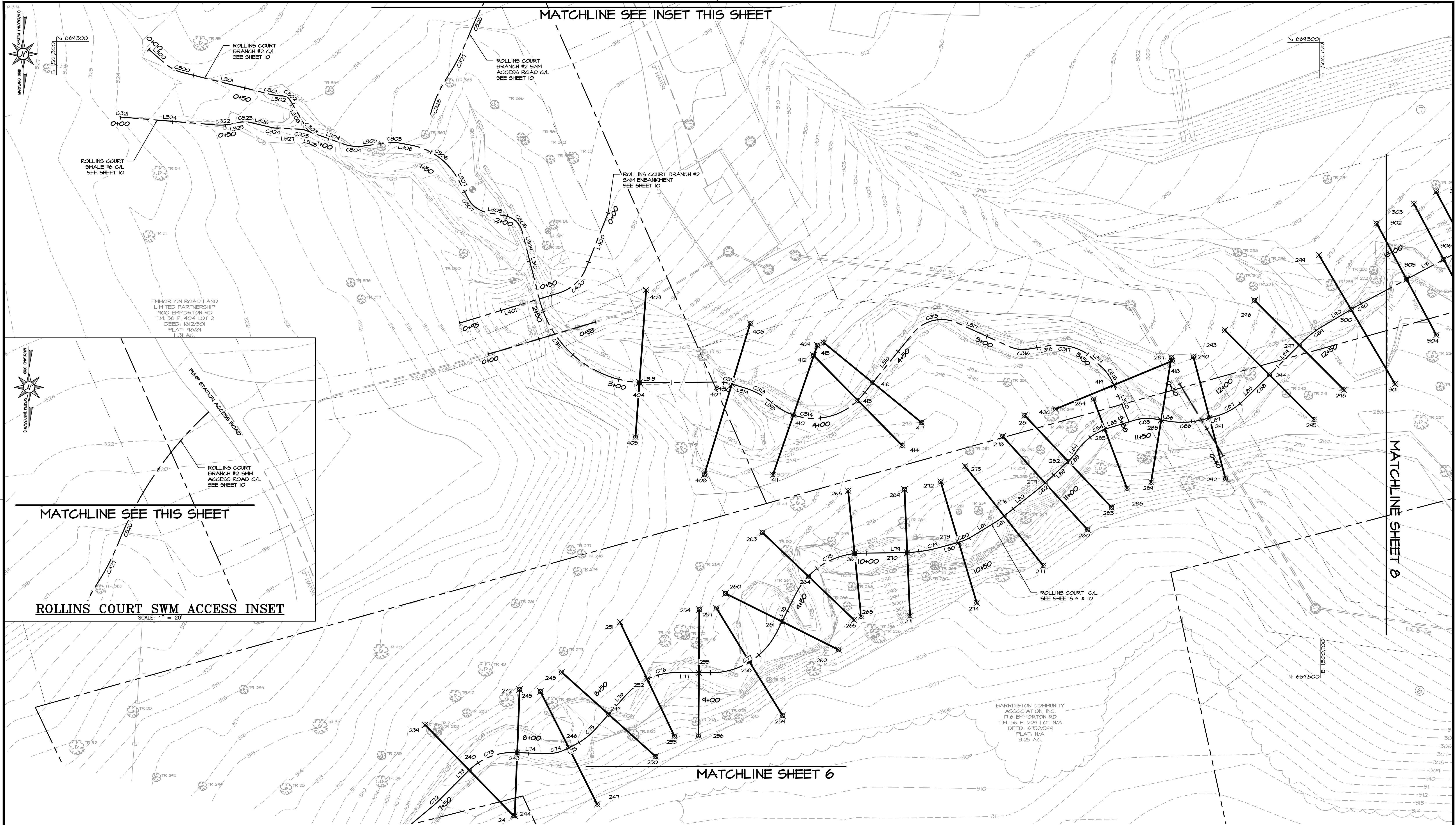
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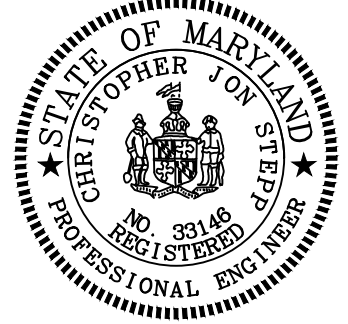
BAYLAND JOB NO. 4_3602



REVISIONS		HARFORD COUNTY, MARYLAND	
		BARRINGTON PLACE STREAM RESTORATION GEOMETRY COORDINATES	
		DRAWN BY: MDD	CONTRACT NO. :
		DESIGNED BY: RP/MDD	SCALE: 1" = 20'
		REVIEWED BY: CJS	SHEET 6 OF 53
			DATE: 01/27/17



EG-SWMENG-000135-2015 #99974



REVISIONS	

HARFORD COUNTY, MARYLAND	
BARRINGTON PLACE STREAM RESTORATION GEOMETRY COORDINATES	
DRAWN BY: MDD	CONTRACT NO. :
DESIGNED BY: RP/MDD	SCALE: 1" = 20'
REVIEWED BY: CJS	SHEET 7 OF 53
	DATE: 01/27/17

BARRINGTON PLACE GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
L1	670412.33	1500710.60	670413.86	1500672.16	38.47'	N87° 43' 42.22"W	
C1	670413.86	1500672.16	670414.48	1500669.06	3.16'		10.17'
L2	670414.48	1500669.06	670431.83	1500627.14	45.37'	N67° 30' 33.33"W	
C2	670431.83	1500627.14	670435.02	1500620.96	6.95'		66.71'
L3	670435.02	1500620.96	670438.60	1500615.22	6.77'	N58° 02' 02.72"W	
C3	670438.60	1500615.22	670430.04	1500592.87	23.94'		15.00'
L4	670430.04	1500592.87	670413.14	1500587.99	17.59'	S16° 07' 05.68"W	
C4	670413.14	1500587.99	670405.12	1500578.97	12.07'		13.05'
L5	670405.12	1500578.97	670397.86	1500537.90	41.71'	S79° 58' 55.09"W	
L6	670397.86	1500537.90	670392.01	1500504.76	33.65'	S79° 58' 50.84"W	
C5	670392.01	1500504.76	670389.97	1500498.11	6.96'		28.39'
L7	670389.97	1500498.11	670389.66	1500497.42	0.76'	S65° 54' 03.71"W	
C6	670389.66	1500497.42	670385.71	1500491.35	7.24'		23.38'
L8	670385.71	1500491.35	670377.22	1500481.88	12.72'	S48° 04' 58.81"W	
C7	670377.22	1500481.88	670369.43	1500466.18	17.52'		32.74'
L9	670369.43	1500466.18	670366.92	1500453.16	13.26'	S79° 07' 38.72"W	
C8	670366.92	1500453.16	670363.07	1500444.96	9.06'		18.37'
L10	670363.07	1500444.96	670357.66	1500438.37	8.53'	S50° 34' 09.36"W	
C9	670357.66	1500438.37	670348.97	1500429.44	12.46'		74.82'
L11	670348.97	1500429.44	670337.34	1500419.32	15.41'	S41° 00' 51.10"W	
C10	670337.34	1500419.32	670329.56	1500411.46	11.05'		73.80'
L12	670329.56	1500411.46	670321.97	1500402.54	11.72'	S49° 36' 13.45"W	
C11	670321.97	1500402.54	670315.24	1500390.39	13.89'		35.09'
L13	670315.24	1500390.39	670313.68	1500385.45	5.17'	S72° 26' 43.66"W	
C12	670313.68	1500385.45	670305.59	1500345.86	40.41'		192.79'
L14	670305.59	1500345.86	670305.25	1500342.32	3.55'	S84° 28' 35.22"W	
C13	670305.25	1500342.32	670301.52	1500328.63	14.19'		42.05'
L15	670301.52	1500328.63	670292.29	1500308.80	21.88'	S65° 02' 55.11"W	
C14	670292.29	1500308.80	670280.51	1500296.31	17.17'		27.23'
L16	670280.51	1500296.31	670277.13	1500294.48	3.85'	S28° 17' 47.84"W	
C15	670277.13	1500294.48	670266.23	1500290.47	11.61'		41.22'
L17	670266.23	1500290.47	670264.31	1500290.06	1.97'	S12° 06' 31.87"W	
C16	670264.31	1500290.06	670244.42	1500274.58	25.20'		28.97'
L18	670244.42	1500274.58	670242.25	1500270.20	4.89'	S63° 40' 23.06"W	
C17	670242.25	1500270.20	670238.69	1500253.78	16.80'		34.54'
L19	670238.69	1500253.78	670238.77	1500251.06	2.73'	N88° 10' 09.08"W	
C18	670238.77	1500251.06	670234.51	1500238.96	12.82'		17.68'
L20	670234.51	1500238.96	670215.06	1500210.77	34.25'	S55° 24' 10.89"W	
C19	670215.06	1500210.77	670202.99	1500200.96	15.56'		24.16'
L21	670202.99	1500200.96	670198.32	1500199.28	4.97'	S19° 48' 27.35"W	
C20	670198.32	1500199.28	670184.20	1500195.81	14.54'		41.96'
L22	670184.20	1500195.81	670182.95	1500195.67	1.26'	S6° 17' 16.84"W	
C21	670182.95	1500195.67	670167.15	1500187.78	17.66'		31.67'
L23	670167.15	1500187.78	670164.14	1500184.38	4.54'	S48° 35' 54.23"W	
C22	670164.14	1500184.38	670160.57	1500176.89	8.29'		20.69'
L24	670160.57	1500176.89	670159.70	1500175.28	1.83'	S61° 46' 03.39"W	
C23	670159.70	1500175.28	670159.08	1500173.65	1.75'		6.74'
L25	670159.08	1500173.65	670158.43	1500170.89	2.83'	S76° 41' 43.49"W	
C24	670158.43	1500170.89	670148.37	1500152.08	21.33'		41.64'
L26	670148.37	1500152.08	670141.92	1500145.17	9.45'	S47° 00' 53.79"W	
C25	670141.92	1500145.17	670132.03	1500137.66	12.41'		36.34'
L27	670132.03	1500137.66	670126.96	1500129.20	12.83'	S20° 37' 33.84"W	
C26	670126.96	1500137.66	670123.98	1500133.71	11.45'		17.31'
L28	670123.98	1500133.71	670111.97	1500127.38	3.98'		17.59'
C27	670111.97	1500127.38	670108.43	1500121.85	9.99'	S33° 37' 24.09"W	
L29	670108.43	1500127.38	670100.11	1500121.85	11.45'		17.31'
C28	670100.11	1500121.85	670093.21	1500112.72	5.34'	S72° 15' 07.03"W	
L30	670093.21	1500112.72	670091.59	1500107.63	3.02'		6.72'
C29	670091.59	1500107.63	670092.45	1500096.88	7.82'	N81° 47' 04.38"W	
L31	670092.45	1500096.88	670092.86	1500095.28	1.64'		7.82'
C30	670092.86	1500095.28	670098.83	1500079.11	17.24'	N69° 44' 21.62"W	
L32	670098.83	1500079.11	670100.34	1500067.95	11.26'		25.86'
C31	670100.34	1500067.95	670099.46	1500057.67	10.32'	S85° 07' 23.24"W	
L33	670099.46	1500057.67	670098.97	1500054.13	3.58'		33.68'
C32	670098.97	1500054.13	670096.61	1500041.99	12.36'	S79° 02' 05.84"W	
L34	670096.61	1500041.99	670092.49	1500033.30	9.62'		19.30'
C33	670092.49	1500033.30	670080.46	1500018.88	18.78'	S50° 09' 44.86"W	
L35	670080.46	1500018.88	670071.88	1500007.19	14.50'		116.74'
C34	670080.46	1500018.88	670071.88	1500007.19	23.07'	S57° 17' 05.48"W	
L36	670071.88	1500007.19	670059.41	1499987.78			

BARRINGTON PLACE GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
C35	670059.41	1499987.78	670054.87	1499984.03	5.89'		9.69'
L37	670054.87	1499984.03	670052.99	1499983.28	2.02'	S21° 53' 45.98"W	
C36	670052.99	1499983.28	670049.06	1499980.19	6.95'		8.95'
L38	670049.06	1499980.19	670045.56	1499975.31	6.01'	S54° 18' 54.38"W	
C37	670045.56	1499975.31	670044.66	1499974.01	1.59'		40.64'
L39	670044.66	1499974.01	670042.66	1499970.98	3.63'	S56° 33' 05.27"W	
C38	670042.66	1499970.98	670041.66	1499965.56	1.74'		31.05'
L40	670041.66	1499965.56	670036.80	1499963.02	8.14'	S53° 20' 11.47"W	
C39	670036.80	1499963.02	670034.00	1499959.85	4.23'		25.71'
L41	670034.00	1499959.85	670029.88	1499955.89	5.72'	S43° 54' 16.50"W	
C40	670029.88	1499955.89	670013.11	1499943.26	21.00'		86.93'
L42	670013.11	1499943.26	669981.86	1499925.20	36.09'	S30° 01' 52.14"W	
L43	669981.86	1499925.20	669968.40	1499917.35	15.58'	S30° 13' 24.73"W	
L44	669968.40	1499917.35	669955.55	1499908.04	15.87'	S35° 56' 23.18"W	

BARRINGTON PLACE
CROSS-SECTION POINTS

STAKEOUT TABLE				STAKEOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION	POINT NO.	NORTHING	EASTING	DESCRIPTION
100	670,309.14	1,500,526.69	EMBANKMENT	150	670,216.68	1,500,171.99	XS-16
101	670,392.96	1,500,510.15	EMBANKMENT	151	670,182.49	1,500,225.78	XS-17
102	670,456.30	1,500,497.66	EMBANKMENT	152	670,185.29	1,500,195.89	XS-17
103	670,338.67	1,500,465.10	XS-1	153	670,188.85	1,500,166.19	XS-17
104	670,368.13	1,500,459.44	XS-1	154	670,142.80	1,500,205.43	XS-18
105	670,397.59	1,500,453.78	XS-1	155	670,165.32	1,500,185.71	XS-18
106	670,332.13	1,500,454.78	XS-2	156	670,187.93	1,500,165.89	XS-18
107	670,353.72	1,500,433.95	XS-2	157	670,124.37	1,500,170.33	XS-19
108	670,375.31	1,500,413.13	XS-2	158	670,146.31	1,500,149.88	XS-19
109	670,308.60	1,500,433.06	XS-3	159	670,168.26	1,500,129.42	XS-19
110	670,330.90	1,500,413.00	XS-3	160	670,115.52	1,500,162.90	XS-20
111	670,353.21	1,500,392.93	XS-3	161	670,129.30	1,500,136.25	XS-20
112	670,285.65	1,500,396.33	XS-4	162	670,143.08	1,500,109.60	XS-20
113	670,314.25	1,500,387.28	XS-4	163	670,094.32	1,500,186.66	XS-21
114	670,342.86	1,500,378.23	XS-4	164	670,115.45	1,500,130.51	XS-21
115	670,279.01	1,500,370.91	XS-5	165	670,126.02	1,500,102.43	XS-21
116	670,308.43	1,500,365.04	XS-5	166	670,067.03	1,500,127.86	XS-22
117	670,337.85	1,500,359.17	XS-5	167	670,094.09	1,500,114.91	XS-22
118	670,275.03	1,500,343.23	XS-6	168	670,121.15	1,500,101.96	XS-22
119	670,303.99	1,500,335.40	XS-6	169	670,061.68	1,500,100.09	XS-23
120	670,332.95	1,500,327.57	XS-6	170	670,091.37	1,500,104.37	XS-23
121	670,268.51	1,500,328.78	XS-7	171	670,121.06	1,500,108.66	XS-23
122	670,295.71	1,500,316.13	XS-7	172	670,068.45	1,500,074.78	XS-24
123	670,322.91	1,500,303.47	XS-7	173	670,096.59	1,500,085.17	XS-24
124	670,264.95	1,500,321.04	XS-8	174	670,124.73	1,500,095.56	XS-24
125	670,291.49	1,500,307.06	XS-8	175	670,069.46	1,500,059.55	XS-25
126	670,318.03	1,500,293.08	XS-8	176	670,098.91	1,500,053.84	XS-25
127	670,268.73	1,500,324.33	XS-9	177	670,128.36	1,500,048.13	XS-25
128	670,284.32	1,500,298.79	XS-9	178	670,069.84	1,500,053.01	XS-26
129	670,300.68	1,500,272.00	XS-9	179	670,092.98	1,500,033.92	XS-26
130	670,259.35	1,500,318.45	XS-10	180	670,116.13	1,500,014.83	XS-26
131	670,263.34	1,500,289.84	XS-10	181	670,048.77	1,500,026.64	XS-27
132	670,267.64	1,500,259.03	XS-10	182	670,073.58	1,500,009.76	XS-27
133	670,221.18	1,500,295.91	XS-11	183	670,098.38	1,499,992.89	XS-27
134	670,245.93	1,500,277.27	XS-11	184	670,036.95	1,500,008.33	XS-28
135	670,269.11	1,500,259.81	XS-11	185	670,062.19	1,499,992.12	XS-28
136	670,211.51	1,500,252.67	XS-12	186	670,087.43	1,499,975.90	XS-28
137	670,238.78	1,500,257.61	XS-12	187	670,020.42	1,499,991.71	XS-29
138	670,270.55	1,500,263.37	XS-12	188	670,045.11	1,499,974.68	XS-29
139	670,207.40	1,500,247.22	XS-13	189	670,069.81	1,499,957.65	XS-29
140	670,229.26	1,500,231.36	XS-13	190	670,007.29	1,499,975.85	XS-30
141	670,256.00	1,500,212.04	XS-13	191	670,027.14	1,499,953.36	XS-30
142	670,201.81	1,500,239.50	XS-14	192	670,047.00	1,499,930.87	XS-30
143	670,223.87	1,500,223.54	XS-14				
144	670,243.87	1,500,209.58	XS-14				
145	670,190.39	1,500,227.84	XS-15				
146	670,215.09	1,500,210.81	XS-15				
147	670,239.78	1,500,193.77	XS-15				
148	670,191.03	1,500,226.23	XS-16				
149	670,202.98	1,500,200.96	XS-16				

ROLLINS COURT BRANCH #1
GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
L200	669839.22	1501387.68	669862.92	1501382.84	24.18'	N11° 32' 07.45"W	
C200	669862.92	1501382.84	669863.45	1501382.74	0.54'		16.82'
L201	669863.45	1501382.74	669872.39	1501381.22	9.07'	N9° 41' 24.23"W	
C201	669872.39	1501381.22	669882.21	1501382.94	9.97'		14.82'
L202	669882.21	1501382.94	669887.72	1501386.08	6.34'	N29° 37' 54.81"E	
C202	669887.72	1501386.08	669892.66	1501387.23	5.08'		8.95'
L203	669892.66	1501387.23	669908.12	1501386.34	15.48'	N3° 18' 58.07"W	

ROLLINS COURT BRANCH #2
GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
L300	669503.78	1501256.35	669510.49	1501248.60	10.24'	N49° 05' 34.47"W	
C300	669510.49	1501248.60	669514.79	1501240.32	9.34'		20.00'
L301	669514.79	1501240.32	669524.99	1501199.14	42.42'	N76° 05' 24.63"W	
C301	669524.99	1501199.14	669525.46	1501196.42	2.77'		20.00'
L302	669525.46	1501196.42	669525.84	1501192.79	3.64'	S84° 01' 34.43"E	
C302	669525.84	1501192.79	669528.30	1501188.99	4.52'		5.00'
L303	669528.30	1501188.99	669541.16	1501181.50	14.88'	N30° 13' 25.19"W	
C303	669541.16	1501181.50	669543.35	1501178.86	3.43'		5.00'
L304	669543.35	1501178.86	669548.74	1501163.76	16.03'	N70° 21' 32.23"W	
C304	669548.74	1501163.76	669549.57	1501153.84	9.95'		19.45'
L305	669549.57	1501153.84	669548.17	1501143.39	10.55'	S82° 19' 59.06"W	
C305	669548.17	1501143.39	669548.40	1501136.40	6.99'		20.95'
L306	669548.40	1501136.40	669549.21	1501132.01	4.46'	N79° 34' 44.55"W	
C306	669549.21	1501132.01	669566.38	1501109.05	28.67'		32.01'
L307	669566.38	1501109.05	669574.31	1501104.92	8.94'	N27° 31' 11.70"W	
C307	669574.31	1501104.92	669581.31	1501095.45	11.78'		13.45'
L308	669581.31	1501095.45	669582.86	1501086.81	8.78'	N79° 49' 58.77"W	
C308	669582.86	1501086.81	669590.50	1501079.00	10.92'		10.35'
L309	669590.50	1501079.00	669602.41	1501075.97	12.29'	N14° 16' 11.55"W	
C310	669602.41	1501075.97	669622.96	1501070.74	21.20'	N14° 16' 11.55"W	
C311	669622.96	1501070.74	669662.11	1501019.59	64.42'		52.21'
L313	669662.11	1501019.59	669661.73	1500986.23	33.36'	S89° 20' 27.19"W	
C312	669661.73	1500986.23	1500979.65	6.65'			21.70'
L314	669662.66	1500979.65	669664.63	1500973.16	6.78'	N73° 08' 10.76"W	
C313	669664.63	1500973.16	669670.42	1500961.91	12.66'		35.17'
L315	669670.42	1500961.91	669672.80	1500958.82	3.90'	N52° 21' 37.04"W	
C314	669672.80	1500958.82	669668.08	1500917.54	41.55'		29.82'
L316	669668.08	1500917.54	669638.81	1500893.64	37.79'	S39° 13' 55.76"W	
C315	669638.81	1500893.64	669633.58	1500872.71	21.58'		17.45'
L317	669633.58	1500872.71	669644.84	1500847.91	27.24'	N65° 35' 31.18"W	
C316	669644.84	1500847.91	669646.28	1500839.65	8.38'		16.71'
L318	669646.28	1500839.65	669644.57	1500829.50	10.29'	S80° 24' 50.04"W	
C317	669644.57	1500829.50	669648.12	1500811.08	18.76'		26.80'
L319	669648.12	1500811.08	669655.43	1500803.05	10.86'	N47° 41' 43.77"W	
C318	669655.43	1500803.05	669663.16	1500798.10	9.18'		26.06'
L320	669663.16	1500798.10	669680.64	1500790.89	18.91'	N22° 25' 36.05"W	

ROLLINS COURT BRANCH #3
GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
L250	669953.48	1501313.98	669952.37	1501300.19	13.84'	S85° 25' 16.50"W	
C250	669952.37	1501300.19	669946.77	1501285.04	16.15'		28.86'
L251	669946.77	1501285.04	669943.56	1501280.70	5.41'	S53° 27' 59.30"W	
C251	669943.56	1501280.70	669936.15	1501274.03	9.96'		25.00'
L252	669936.15	1501274.03	669921.95	1501265.67	16.48'	S30° 28' 50.58"W	
C252	669921.95	1501265.67	669915.68	1501260.44	8.16'		25.00'
L253	669915.68	1501260.44	669907.05	1501250.42	13.23'	S49° 15' 51.53"W	

ROLLINS COURT OUTFALL BRANCH
GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
L150	670038.38	1501622.88	670033.27	1501606.73	16.94'	S72° 26' 55.91"W	
C150	670033.27	1501606.73	670029.12	1501603.28	5.40'		5.00'
L151	670029.12	1501603.28	670017.74	1501601.88	11.46'	S7° 02' 00.54"W	
C151	670017.74	1501601.88	670010.99	1501599.78	7.07'		20.00'
L152	670010.99	1501599.78	670000.81	1501594.50	11.46'	S27° 24' 15.37"W	
C152	670000.81	1501594.50	669996.64	1501592.90	4.47'		20.00'
L153	669996.64	1501592.90	669989.68	1501591.09	7.19'	S14° 34' 44.65"W	
C153	669989.68	1501591.09	669984.31	1501591.57	5.38'		8.00'
L154	669984.31	1501591.57	669973.81	1501596.41	11.57'	S24° 45' 02.51"E	
C154	669973.81	1501596.41	669971.30	1501597.10	2.60'		8.00'
L155	669971.30	1501597.10	669961.87	1501598.11	9.49'	S6° 04' 29.62"E	
C155	669961.87	1501598.11	669953.85	1501597.36	8.05'		20.34'
L156	669953.85	1501597.36	669935.84	1501591.94	18.81'	S16° 45' 08.44"W	
C156	669935.84	1501591.94	669929.55	1501590.99	6.36'		22.37'
L157	669929.55	1501590.99	669928.16	1501590.98	1.38'	S0° 23' 43.51"W	

ROLLINS COURT EMBANKMENT #2
GEOMETRY COORDINATES

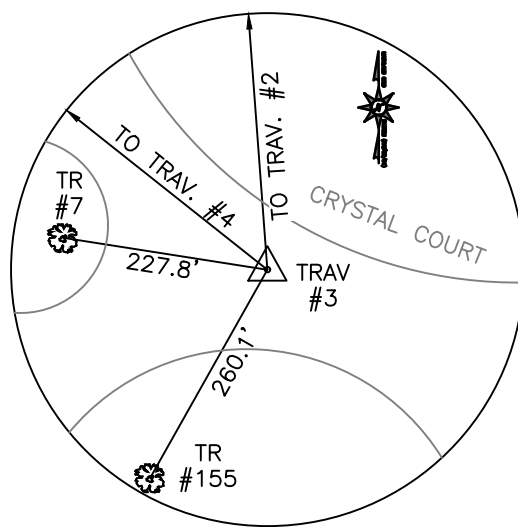
LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
L400	669581.52	1501038.30	669607.71	1501048.78	28.21'	N21° 48' 18.98"E	
C400	669607.71	1501048.78	669619.42	1501061.54	17.32'		20.00'
L401	669619.42	1501061.54	669633.73	1501108.76	49.33'	N73° 08' 36.36"E	

ROLLINS COURT BRANCH #2
INFLOW SWALE #6 GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
C321	669535.91	1501269.88	669535.99	1501268.47	1.41'		25.00'
L324	669535.99	1501268.47	669539.64	1501224.57	44.05'	N85° 14' 56.95"W	
C322	669539.64	1501224.57	669539.26	1501217.72	6.87'		25.00'
L325	669539.26	1501217.72	669538.29	1501212.72	5.09'	S78° 57' 29.13"W	
C323	669538.29	1501212.72	669538.37	1501208.49	4.22'		10.00'
L326	669538.37	1501208.49	669540.89	1501197.85	10.94'	N76° 39' 14.77"W	
C324	669540.89	1501197.85	669541.16	1501195.97	1.91'		10.00'
L327	669541.16	1501195.97	669541.63	1501184.78	11.20'	N87° 35' 09.48"W	
C325	669541.63	1501184.78	669542.29	1501181.58	3.26'		10.00'
L328	669542.29	1501181.58	669543.35	1501178.86	2.92'	N68° 48' 51.41"W	

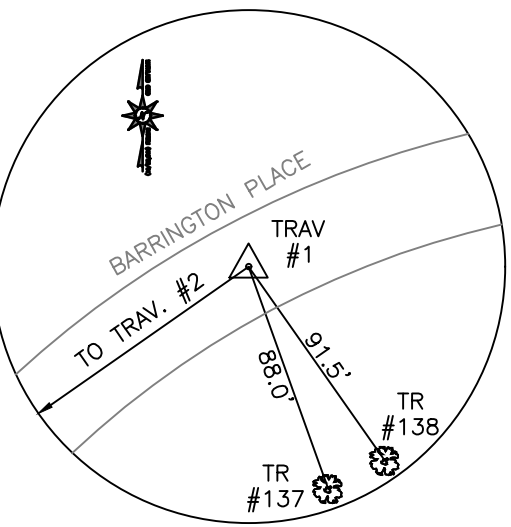
ROLLINS COURT BRANCH #2
SWM ACCESS ROAD GEOMETRY COORDINATES

LINE & CURVE TABLE							
LINE/CURVE NO.	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH/CHORD LENGTH	BEARING	RADIUS
C326	669435.55	1501061.77	669498.07	1501104.80	75.90'		169.86'
C327	669498.07	1501104.80	669518.26	1501115.46	22.83'		113.59'
C328	669518.26	1501115.46	669534.50	1501122.59	17.74'		59.71'



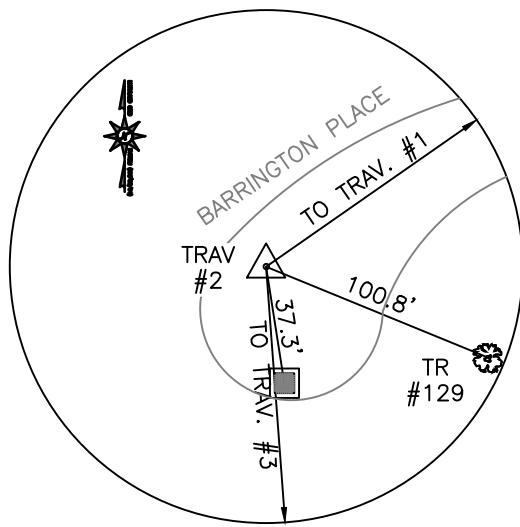
TRAVERSE REFERENCE #3

N: 669,969.70'
E: 1,500,359.03'
ELEV: 311.27'



TRAVERSE REFERENCE #1

N: 670,527.66'
E: 1,500,466.45'
ELEV: 311.78'



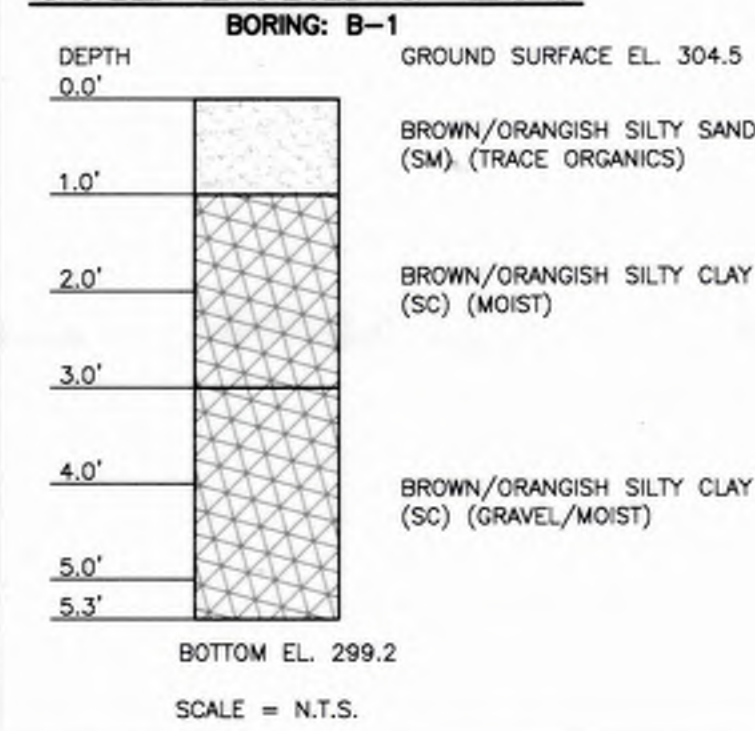
TRAVERSE REFERENCE #2

N: 670,428.99'
E: 1,500,325.09'
ELEV: 308.92'

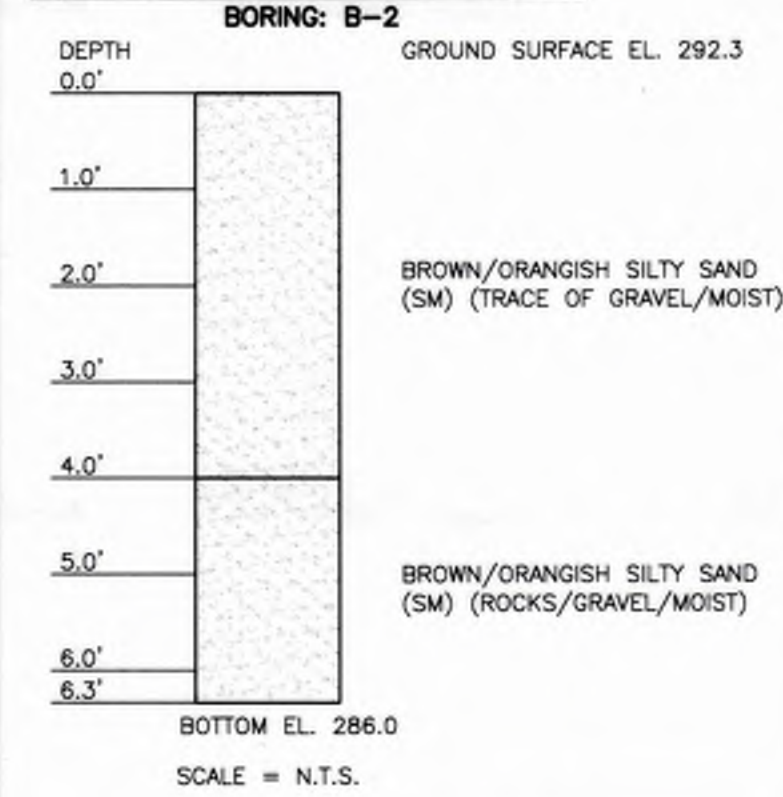
ROLLINS COURT CROSS-SECTION POINTS

STAKEOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
200	669,886.96	1,501,496.66	XS-1
201	669,915.90	1,501,488.78	XS-1
202	669,944.85	1,501,480.90	XS-1
203	669,882.86	1,501,478.44	XS-2
204	669,912.71	1,501,475.43	XS-2
205	669,942.56	1,501,472.42	XS-2
206	669,880.54	1,501,454.94	XS-3
207	669,910.22	1,501,450.58	XS-3
208	669,939.91	1,501,446.23	XS-3
209	669,875.65	1,501,429.02	XS-4
210	669,905.51	1,501,426.18	XS-4
211	669,935.38	1,501,423.34	XS-4
212	669,877.62	1,501,398.86	XS-5
213	669,907.10	1,501,404.40	XS-5
214	669,936.59	1,501,409.93	XS-5
215	669,877.64	1,501,378.14	XS-6
216	669,907.60	1,501,376.55	XS-6
217	669,937.56	1,501,374.97	XS-6
218	669,875.92	1,501,353.76	XS-7
219	669,905.08	1,501,346.72	XS-7
220	669,934.24	1,501,339.68	XS-7
221	669,871.22	1,501,334.32	XS-8
222	669,900.39	1,501,327.28	XS-8
223	669,929.55	1,501,320.24	XS-8
224	669,865.54	1,501,298.56	XS-9
225	669,895.53	1,501,297.75	XS-9
226	669,925.52	1,501,296.93	XS-9
227	669,867.80	1,501,271.34	XS-10
228	669,897.09	1,501,277.86	XS-10
229	669,926.37	1,501,284.38	XS-10
230	669,879.45	1,501,238.66	XS-11
231	669,907.34	1,501,249.70	XS-11
232	669,935.24	1,501,260.74	XS-11
233	669,882.31	1,501,227.00	XS-12
234	669,912.12	1,501,230.40	XS-12
235	669,941.92	1,501,233.81	XS-12
236	669,884.01	1,501,207.60	XS-13
237	669,913.93	1,501,205.53	XS-13

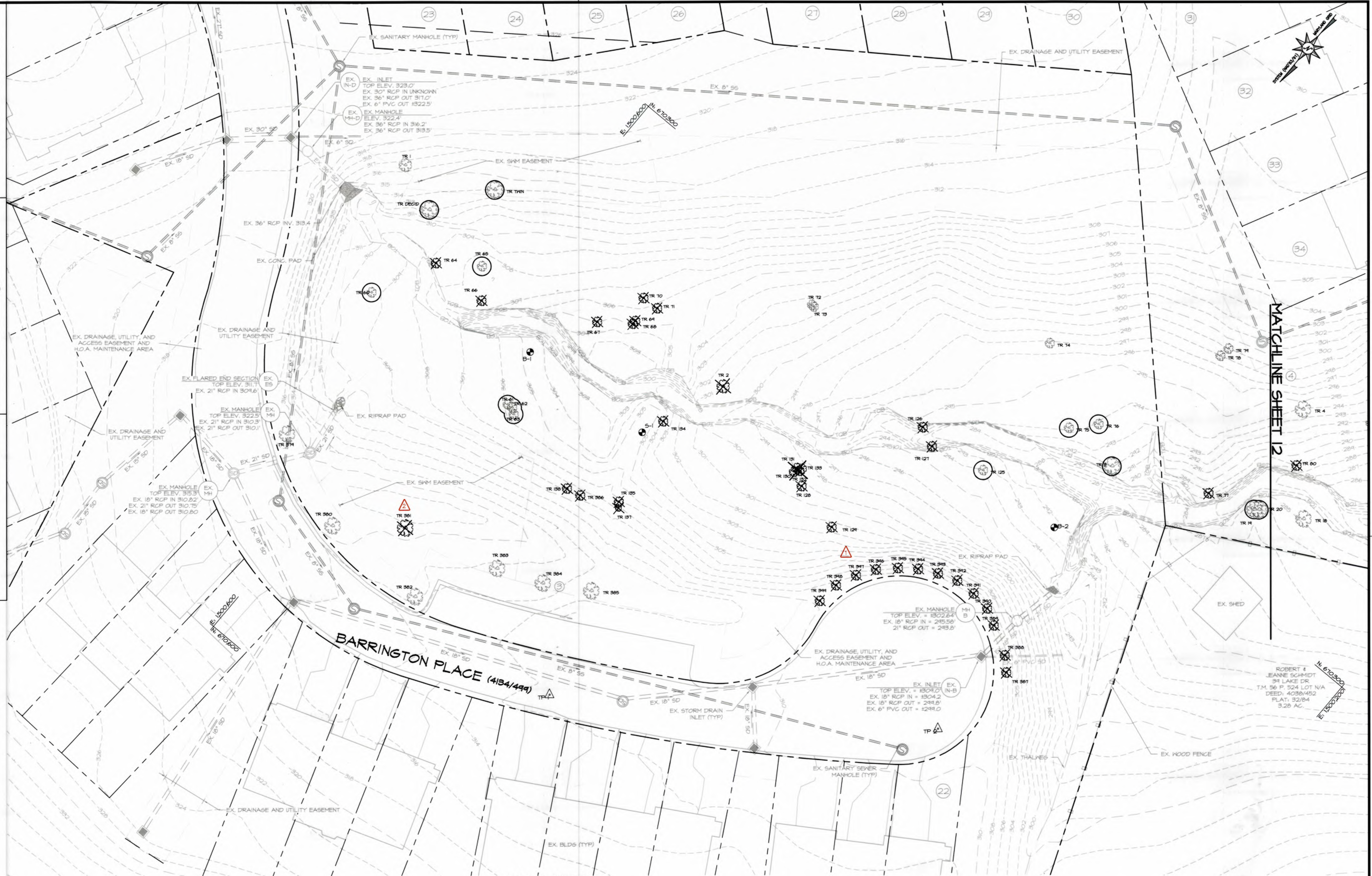
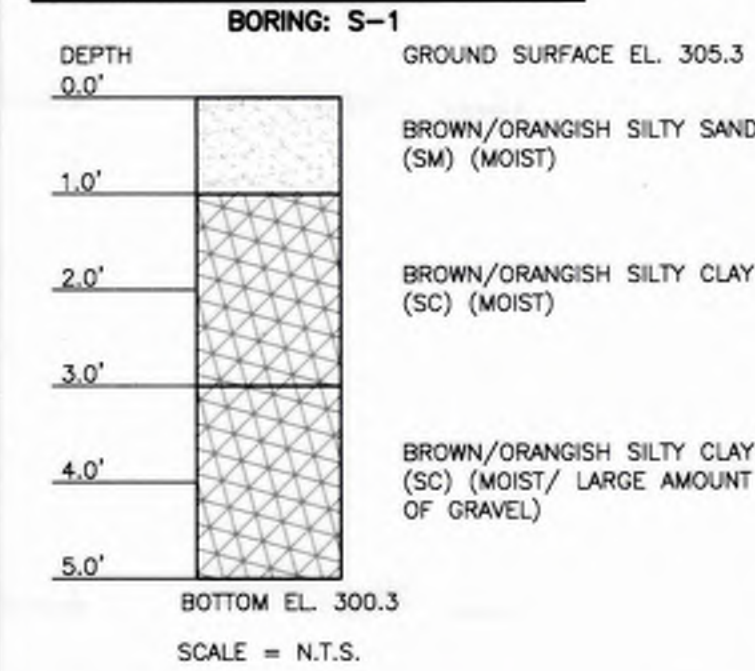
SOIL BORING LOG



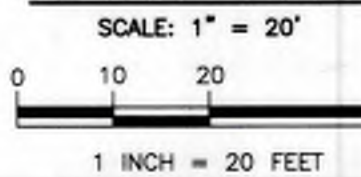
SOIL BORING LOG



SOIL BORING LOG



PLAN VIEW



TREE SIZE TABLE

- OVER 36" DIA.
- 24" TO 36" DIA.
- 12" TO 24" DIA.
- UNDER 12" DIA.

EG-SWMENG-000135-2015 #99974

CLEAR CREEKS CONSULTING
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Hanover, Maryland 21076 Fax: (410) 694-9405
Website: www.baylandinc.com
BAYLAND JOB NO. 4-3602



REVISIONS
2017-06-02 ADDED TREES TO BE REMOVED AROUND THE CUL-DE-SAC
2017-06-02 ADDED EXISTING TREES & TREES TO BE REMOVED AROUND PROPOSED FACILITY ACCESS
RBA 6/24/17

HARFORD COUNTY, MARYLAND

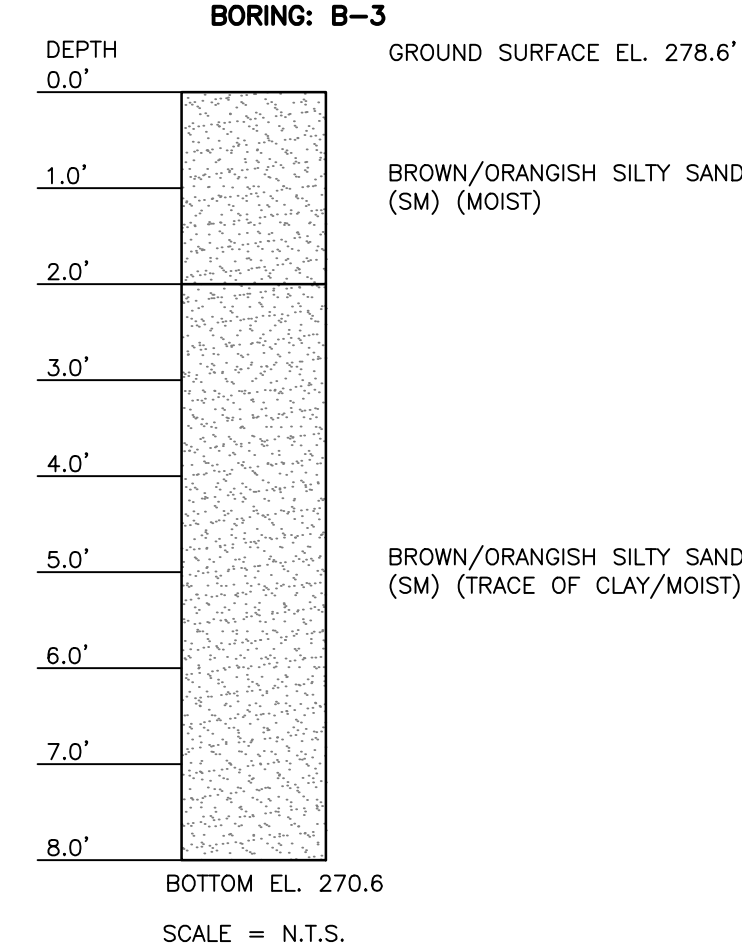
**BARRINGTON PLACE STREAM RESTORATION
EXISTING CONDITIONS - BARRINGTON PLACE TRIBUTARY**

DRAWN BY: MDD	CONTRACT NO.:
DESIGNED BY: RP/MDD	SCALE: 1" = 20'
REVIEWED BY: CJS	SHEET 11 OF 53
	DATE: 06/06/17



MATCHLINE SHEET II

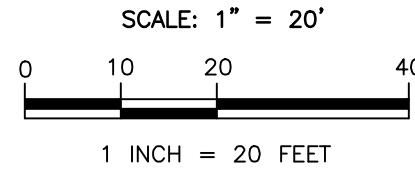
SOIL BORING LOG



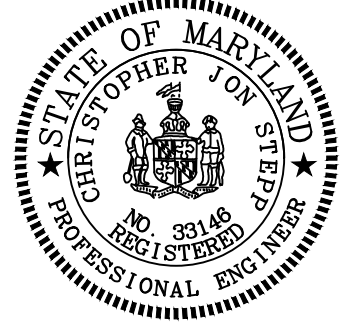
TREE SIZE TABLE

- OVER 36" DIA.
- 24" TO 36" DIA.
- 12" TO 24" DIA.
- UNDER 12" DIA.

PLAN VIEW



EG-SWMENG-000135-2015 #99974

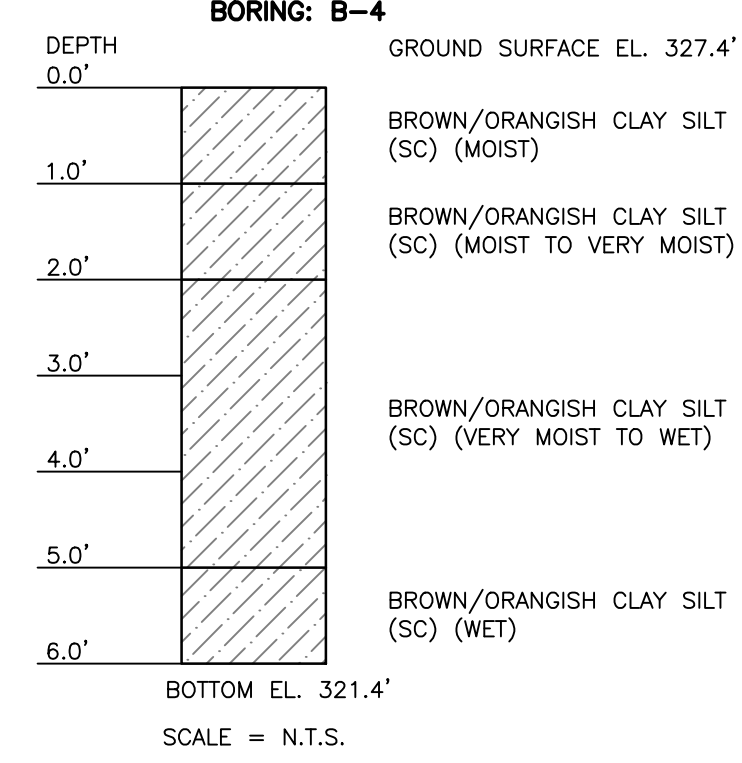


REVISIONS

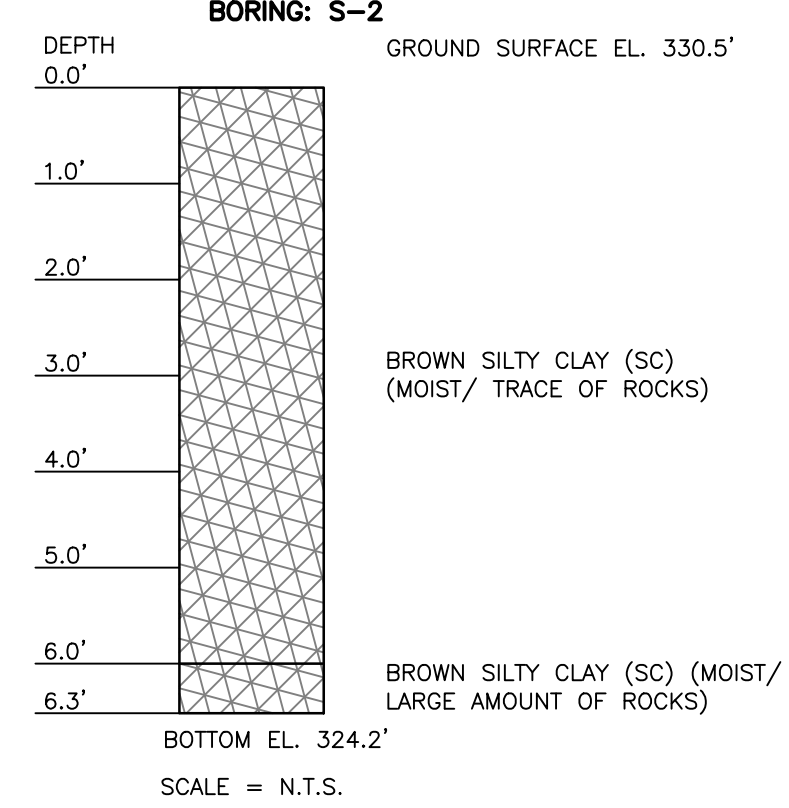
HARFORD COUNTY, MARYLAND	
BARRINGTON PLACE STREAM RESTORATION EXISTING CONDITIONS - BARRINGTON PLACE TRIBUTARY	
DRAWN BY: MDD	CONTRACT NO. :
DESIGNED BY: RP/MDD	SCALE : 1" = 20'
REVIEWED BY: CJS	SHEET 12 OF 53
	DATE : 01/27/17

VETERANS MEMORIAL HIGHWAY
MD ROUT 24
(SHA PLAT 48487)

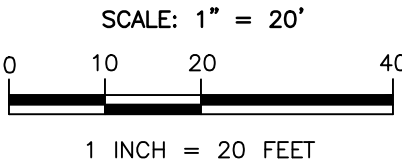
SOIL BORING LOG



SOIL BORING LOG



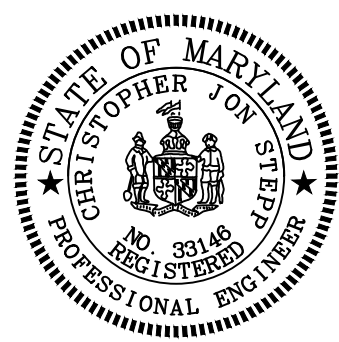
PLAN VIEW



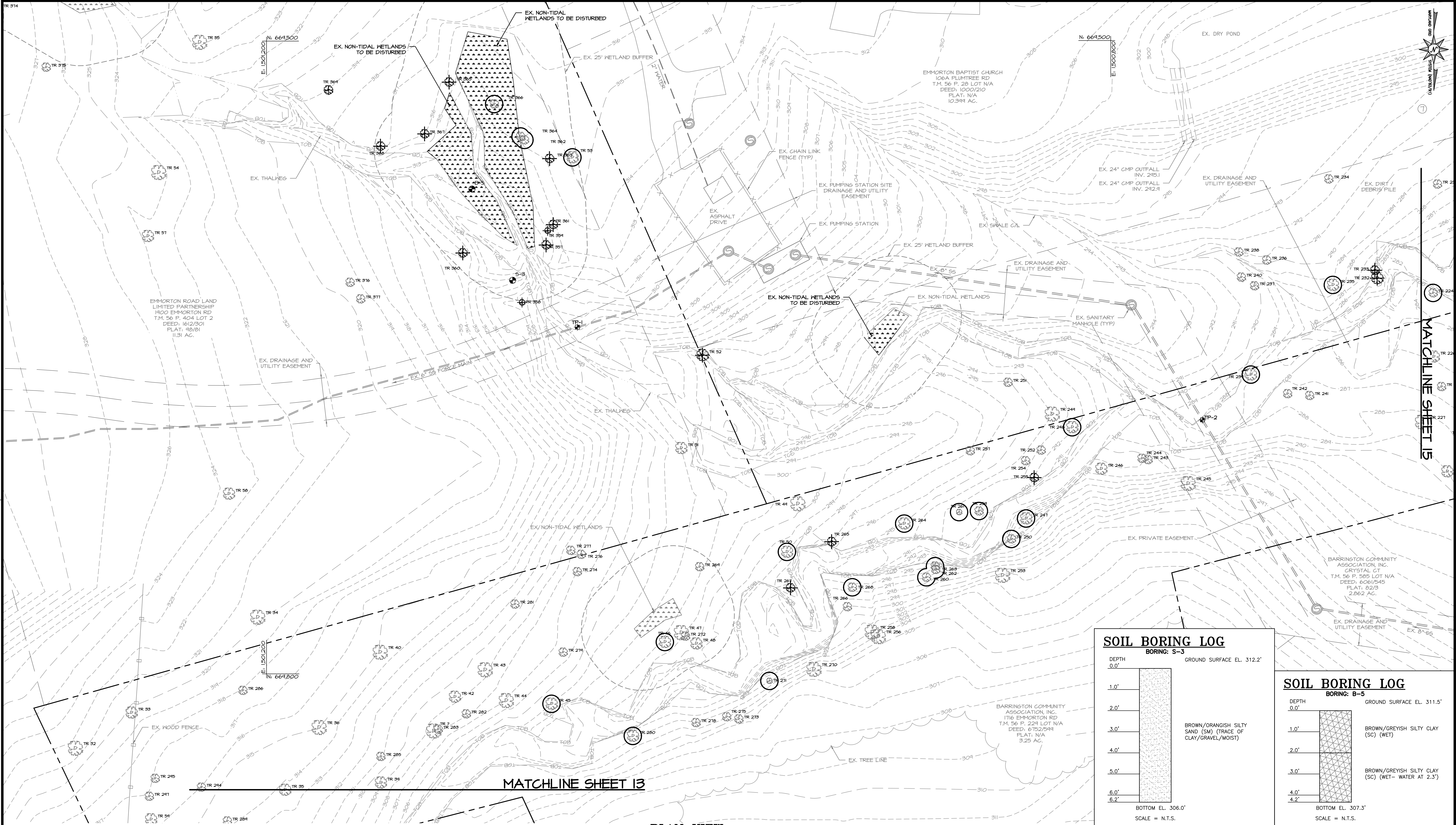
TREE SIZE TABLE

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- UNDER 12" DIA.

EG-SWMENG-000135-2015 #99974



REVISIONS		HARFORD COUNTY, MARYLAND	
		BARRINGTON PLACE STREAM RESTORATION EXISTING CONDITION - ROLLINS COURT TRIBUTARY	
DRAWN BY: MDD		CONTRACT NO. :	
DESIGNED BY: RP/MDD		SCALE : 1" = 20'	
REVIEWED BY: CJS		SHEET 13 OF 53	
		DATE : 01/27/17	

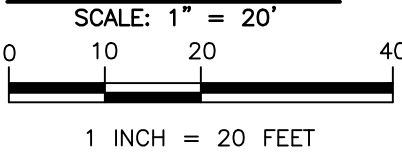


TEST PIT TABLE				
TEST PIT NUMBER	NORTHING	EASTING	ELEV.	TOP OF PIPE
#1	669,638.92	1,501,063.42	307.07	303.58
#2	669,679.74	1,500,756.76	287.76	284.74

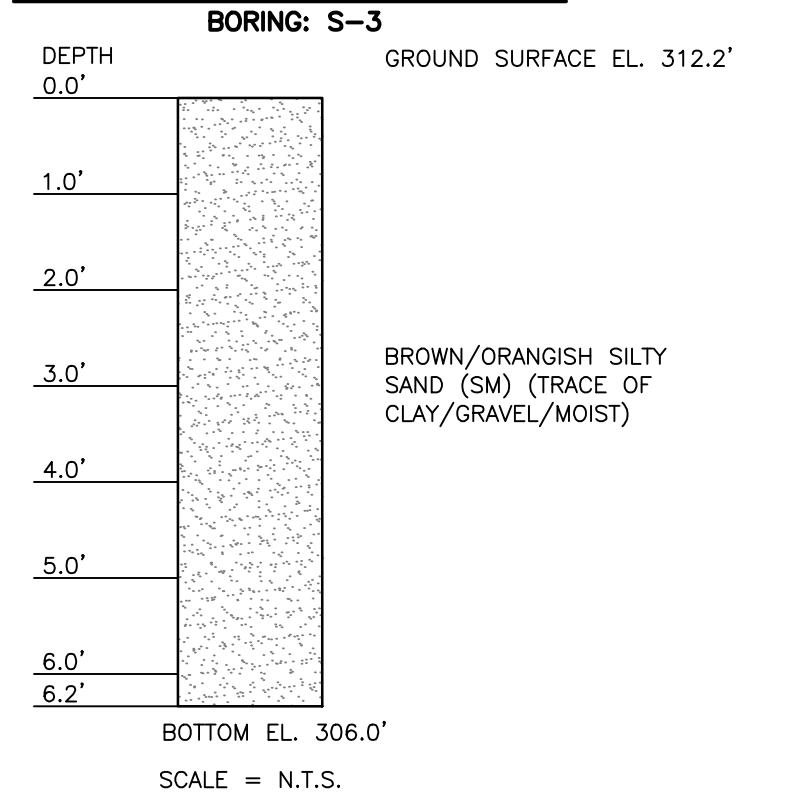
TREE SIZE TABLE

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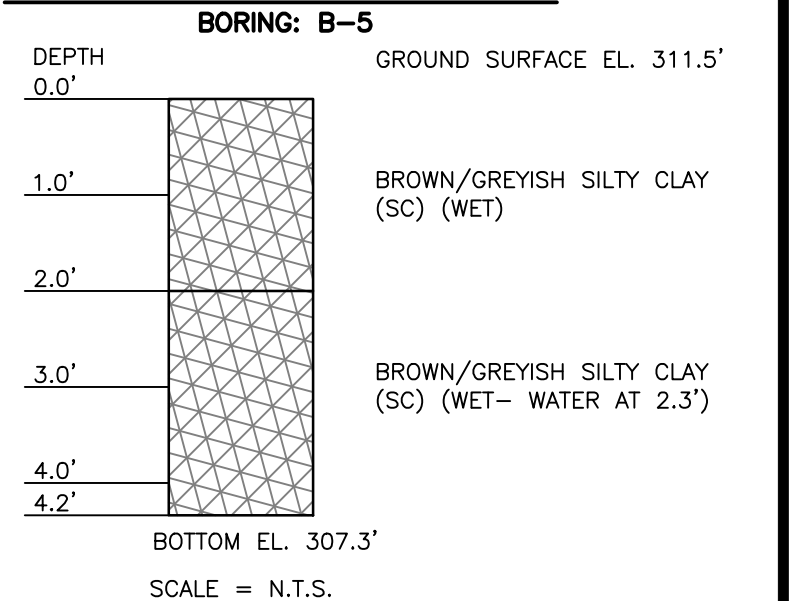
PLAN VIEW



SOIL BORING LOG



SOIL BORING LOG

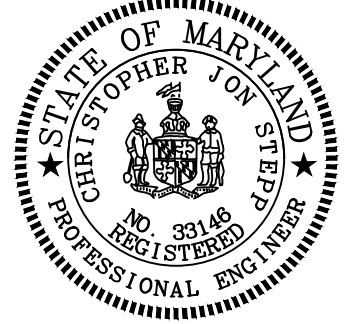


EG-SWMENG-000135-2015 #99974



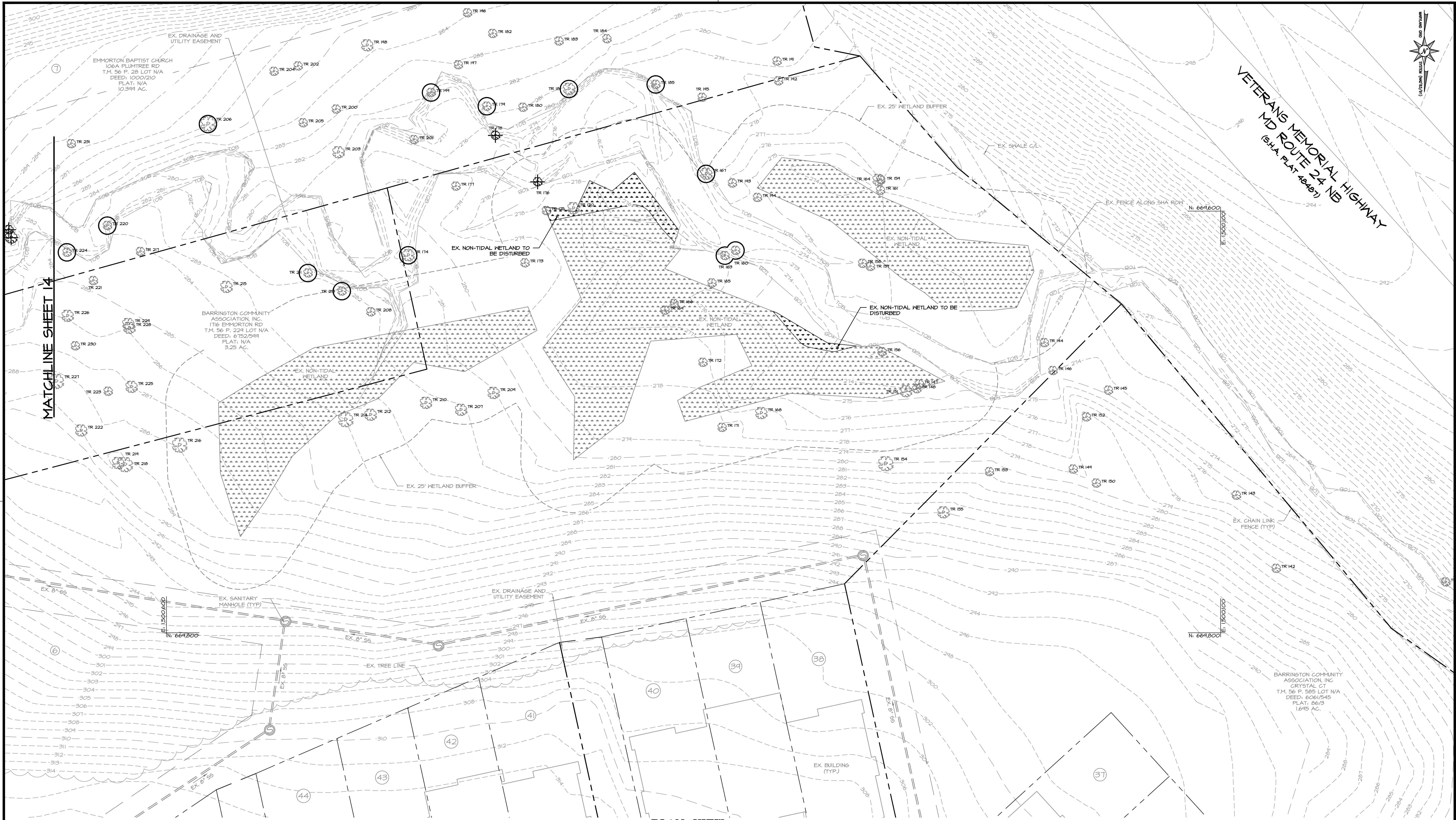
7455 New Ridge Road, Suite T Hanover, Maryland 21076 Phone: (410) 694-9401 Fax: (410) 694-9405 Website: www.baylandinc.com

BAYLAND JOB NO. 4_3602

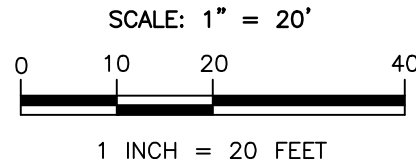


REVISIONS	

HARFORD COUNTY, MARYLAND	
BARRINGTON PLACE STREAM RESTORATION EXISTING CONDITIONS - ROLLINS COURT TRIBUTARY	
DRAWN BY: MDD	CONTRACT NO. :
DESIGNED BY: RP/MDD	SCALE :1" = 20'
REVIEWED BY: CJS	SHEET 14 OF 53
	DATE :01/27/17



PLAN VIEW



TREE SIZE TABLE

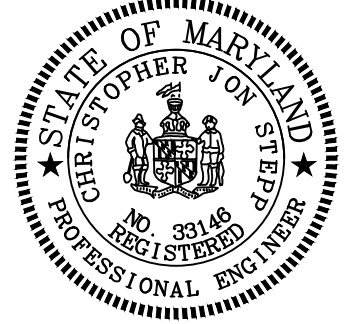
- OVER 36" DIA.
- 24" TO 36" DIA.
- 12" TO 24" DIA.
- UNDER 12" DIA.

EG-SWMENG-000135-2015 #99974



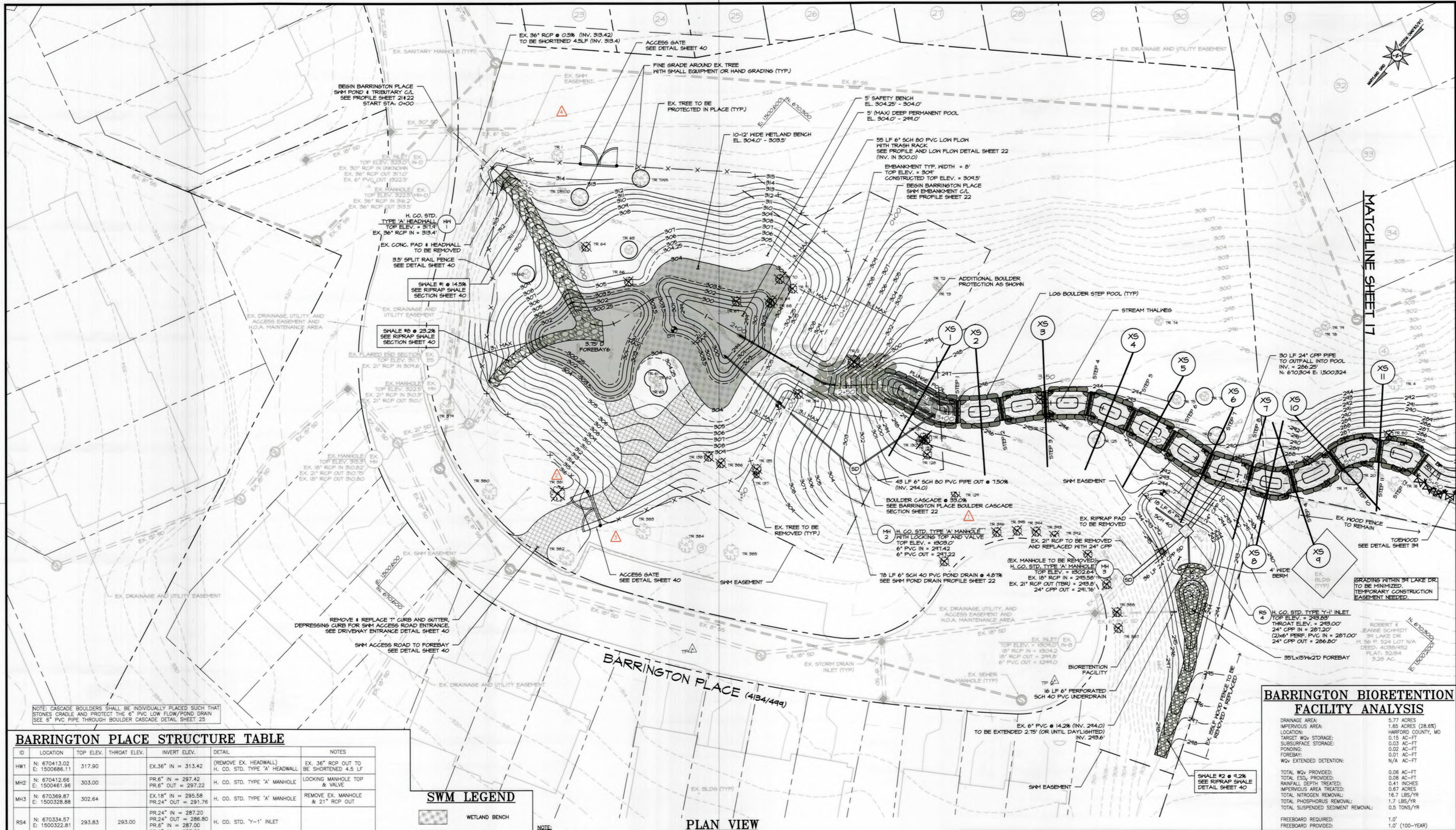
7455 New Ridge Road, Suite T Hanover, Maryland 21076 Phone: (410) 694-9401 Fax: (410) 694-9405 Website: www.baylandinc.com

BAYLAND JOB NO. 4_3602



REVISIONS		HARFORD COUNTY, MARYLAND	
		BARRINGTON PLACE STREAM RESTORATION EXISTING CONDITIONS - ROLLINS COURT TRIBUTARY	
DRAWN BY: MDD		CONTRACT NO. :	
DESIGNED BY: RP/MDD		SCALE : 1" = 20'	
REVIEWED BY: CJS		SHEET 15 OF 53	
		DATE : 01/27/17	

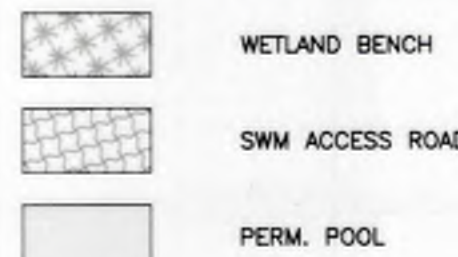
Z:\4_3602_BARRINGTON_R_ROLLINS_FINAL_DESIGN\CAD Files\Sheet Files\4_3602_SP24.dwg



BARRINGTON PLACE STRUCTURE TABLE

ID	LOCATION	TOP ELEV.	THROAT ELEV.	INVERT ELEV.	DETAIL	NOTES
HW1	N: 670413.02 E: 1500686.11	317.90		EX.36" IN = 313.42	(REMOVE EX. HEADWALL) H. CO. STD. TYPE 'A' HEADWALL	EX. 36" RCP OUT TO BE SHORTENED 4.5 LF
MH2	N: 670412.66 E: 1500461.96	303.00		PR.6" IN = 297.42 PR.6" OUT = 297.22	H. CO. STD. TYPE 'A' MANHOLE	LOCKING MANHOLE TOP & VALVE
MH3	N: 670389.87 E: 1500328.88	302.64		EX.18" IN = 295.58 PR.24" OUT = 291.76	H. CO. STD. TYPE 'A' MANHOLE	REMOVE EX. MANHOLE & 21" RCP OUT
RS4	N: 670334.57 E: 1500322.81	293.83	293.00	PR.24" IN = 287.20 PR.24" OUT = 286.80 PR.6" IN = 287.00 PR.6" OUT = 287.00	H. CO. STD. 'Y-1' INLET	

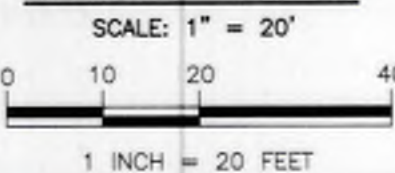
SWM LEGEND



NOTE:

1. TREES TO BE REMOVED ARE SHOWN ON THE EXISTING CONDITIONS SITE PLANS FOR CLARIFICATION
2. SEE SHEET 2 FOR PARCEL INFORMATION

PLAN VIEW



BARRINGTON SWM POND FACILITY ANALYSIS

DRAINAGE AREA: 13.88 ACRES IMPERVIOUS AREA: 7.00 ACRES (50.4%) LOCATION: HANFORD COUNTY, MD TARGET WQV STORAGE: 0.58 AC-FT PR WQV WETPOOL: 0.33 AC-FT WQV EXTENDED DETENTION: 0.25 AC-FT TOTAL WQV PROVIDED: 0.89 AC-FT TARGET CPV: 0.10 AC-FT TOTAL ESD, PROVIDED: 0.88 AC-FT RAINFALL DEPTH TREATED: 1.17 INCHES IMPERVIOUS AREA TREATED: 7.29 ACRES TOTAL NITROGEN REMOVAL: 62.6 LBS/YR TOTAL PHOSPHORUS REMOVAL: 2.5 TONS/YR TOTAL SUSPENDED SEDIMENT REMOVAL: 8.0 LBS/YR REQ. 24HR DRAWDOWN ORIFICE SIZE: 2.75 INCH	EX 10-YR WSE: N/A EX 10-YR STORAGE: N/A EX 10-YR DISCHARGE: 307.53 PR 10-YR WSE: 307.53 PR 10-YR STORAGE: 0.72 AC-FT PR 10-YR PEAK DISCHARGE: 52.6 CFS EX 100-YR WSE: N/A EX 100-YR STORAGE: N/A EX 100-YR PEAK DISCHARGE: 88.5 CFS PR 100-YR WSE: 307.93 PR 100-YR STORAGE: 0.84 AC-FT PR 100-YR PEAK DISCHARGE: 85.1 CFS FREEBOARD REQUIRED: 1.0' FREEBOARD PROVIDED: 1.07' (100-YEAR) 378 STRUCTURE CLASS: CLASS 'A' STORAGE HEIGHT PRODUCT: 7.48 AC-FT-FT	N/A N/A 55.9 CFS 307.53 0.72 AC-FT 52.6 CFS N/A N/A 88.5 CFS 307.93 0.84 AC-FT 85.1 CFS 1.0' 1.07' (100-YEAR) 7.48 AC-FT-FT
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EG-SWMENG-000135-2015 #99974

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 Website: www.baylandinc.com
 BAYLAND JOB NO. 4-3602



REVISIONS
2017-06-02 ADDED TREES TO BE REMOVED AROUND THE CUL-DE-SAC
2017-06-02 ADDED EXISTING TREES & TREES TO BE REMOVED AROUND PROPOSED FACILITY ACCESS
2017-06-02 RELOCATED PROPOSED FACILITY ACCESS ROAD, FENCE AND GATE
2017-06-02 REMOVED PROPOSED FACILITY ACCESS ROAD

HARFORD COUNTY, MARYLAND

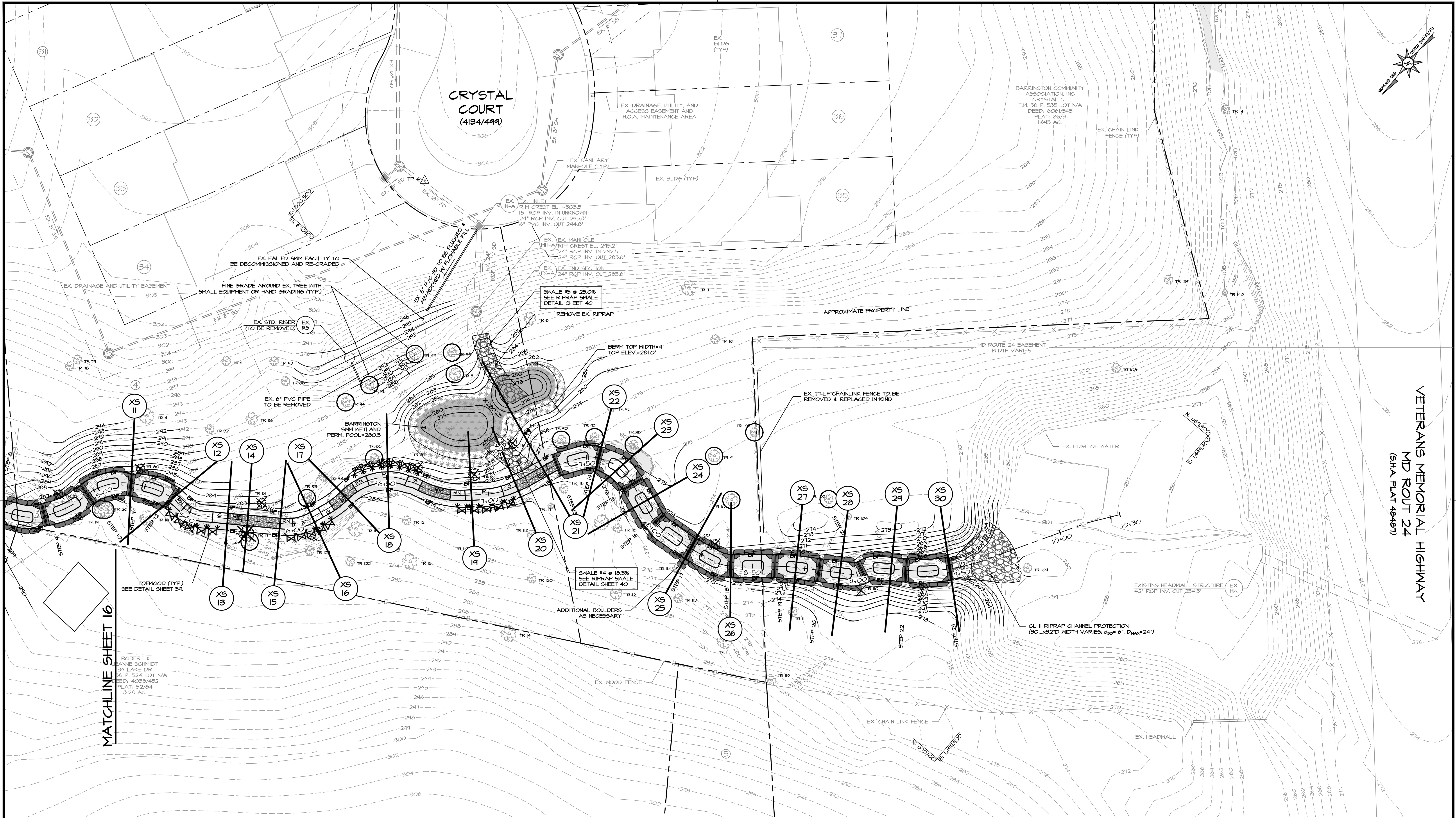
BARRINGTON PLACE STREAM RESTORATION SITE PLAN - BARRINGTON PLACE TRIBUTARY

DRAWN BY: MDD
 DESIGNED BY: RP/MDD
 REVIEWED BY: CJS

CONTRACT NO.:
 SCALE: 1" = 20'
 SHEET 16 OF 53
 DATE: 06/06/17

BARRINGTON BIORETENTION FACILITY ANALYSIS

DRAINAGE AREA: 5.77 ACRES IMPERVIOUS AREA: 1.85 ACRES (28.6%) LOCATION: HANFORD COUNTY, MD TARGET WQV STORAGE: 0.15 AC-FT SUBSURFACE STORAGE: 0.03 AC-FT PONDING: 0.02 AC-FT FOREBAY: 0.01 AC-FT WQV EXTENDED DETENTION: N/A AC-FT TOTAL WQV PROVIDED: 0.06 AC-FT TOTAL ESD, PROVIDED: 0.06 AC-FT RAINFALL DEPTH TREATED: 0.41 INCHES IMPERVIOUS AREA TREATED: 0.67 ACRES TOTAL NITROGEN REMOVAL: 16.7 LBS/YR TOTAL PHOSPHORUS REMOVAL: 1.7 LBS/YR TOTAL SUSPENDED SEDIMENT REMOVAL: 0.5 TONS/YR FREEBOARD REQUIRED: 1.0' FREEBOARD PROVIDED: 1.0' (100-YEAR)	5.77 ACRES 1.85 ACRES (28.6%) HANFORD COUNTY, MD 0.15 AC-FT 0.03 AC-FT 0.02 AC-FT 0.01 AC-FT N/A AC-FT 0.06 AC-FT 0.06 AC-FT 0.41 INCHES 0.67 ACRES 16.7 LBS/YR 1.7 LBS/YR 0.5 TONS/YR 1.0' 1.0' (100-YEAR)
--	--



BARRINGTON SWM WETLAND FACILITY ANALYSIS

DRAINAGE AREA: 3.50 ACRES
IMPERVIOUS AREA: 2.28 ACRES (65.0%)
LOCATION: HANOVER COUNTY, MD
TARGET WQV STORAGE: 0.19 AC-FT
PR WQV WETPOOL: 0.04 AC-FT
TOTAL WQV PROVIDED: 0.04 AC-FT
TOTAL ESD PROVIDED: 0.04 AC-FT
RAINFALL DEPTH TREATED: 0.23 INCHES
IMPERVIOUS AREA TREATED: 0.52 ACRES
TOTAL NITROGEN REMOVAL: 8.6 LBS/YR
TOTAL PHOSPHORUS REMOVAL: 1.2 LBS/YR
TOTAL SUSPENDED SEDIMENT REMOVAL: 0.4 TONS/YR

SWM LEGEND

WETLAND BENCH
DEEP WETLANDS
PERM. POOL

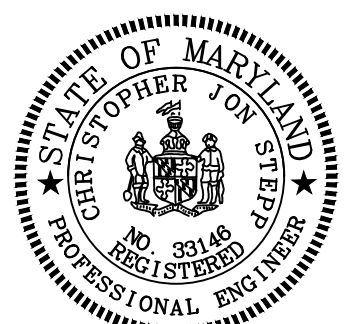
NOTE:

- TREES TO BE REMOVED ARE SHOWN ON THE EXISTING CONDITIONS SITE PLANS FOR CLARIFICATION
- SEE SHEET 2 FOR PARCEL INFORMATION

EG-SWMENG-000135-2015 #99974



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BAYLAND JOB NO. 4-3602



REVISIONS

HARFORD COUNTY, MARYLAND

BARRINGTON PLACE STREAM RESTORATION SITE PLAN - BARRINGTON PLACE TRIBUTARY

DRAWN BY: MDD
DESIGNED BY: RP/MDD
REVIEWED BY: CJS

CONTRACT NO.:
SCALE: 1" = 20'
SHEET 17 OF 53
DATE: 01/27/17

VETERANS MEMORIAL HIGHWAY
MD ROUTE 24
(SHA PLAT 48487)

TAX MAP:

HCG BILLING ID No.:

HCG DWG ID No.:

Z:\4_3602_BARRINGTON_R_ROLLINS_FINAL_DESIGN\CAD Files\Sheet Files\4_3602_SP01.dwg

DRAINAGE AREA:	6.19 ACRES
IMPERVIOUS AREA:	2.15 ACRES (34.7%)
LOCATION:	HARRIS COUNTY, MD
TARGET WQ STORAGE:	0.19 AC-FT
FILTER MEDIA STORAGE:	0.03 AC-FT
PR 10-YR STORAGE:	0.02 AC-FT
PR WQ WETPOOL:	0.12 AC-FT
WQ EXTENDED DETENTION:	0.00 AC-FT
TOTAL PROVIDED:	0.19 AC-FT
TARGET CPV:	0.24 AC-FT
PR CPV:	0.00 AC-FT
TOTAL ESD PROVIDED:	0.22 AC-FT
RAINFALL DEPTH TREATED:	1.19 INCHES
IMPERVIOUS AREA TREATED:	2.25 ACRES
TOTAL NITROGEN REMOVAL:	26.4 LBS/YR
TOTAL PHOSPHORUS REMOVAL:	2.5 LBS/YR
TOTAL SUSPENDED SEDIMENT REMOVAL:	0.8 TONS/YR
EX 10-YR WSE:	N/A
EX 10-YR STORAGE:	N/A
EX 10-YR DISCHARGE:	18.0 CFS
PR 10-YR WSE:	327.11
PR 10-YR STORAGE:	0.11 AC-FT
PR 10-YR PEAK DISCHARGE:	17.7 CFS
EX 100-YR WSE:	N/A
EX 100-YR STORAGE:	N/A
EX 100-YR PEAK DISCHARGE:	30.8 CFS
PR 100-YR WSE:	327.31
PR 100-YR STORAGE:	0.13 AC-FT
PR 100-YR PEAK DISCHARGE:	30.5 CFS

Diagram showing SPSC structures (dashed lines) and a 25' wetland buffer (solid line). The structures are labeled "SPSC B SEE" and "SPSC STRUCTURES. SEE DETAILS SHEET 26-7".

SWALE #5
SEE RIPRAP
DETAIL SH

BARRINGTON CO
ASSOCIATION
BARRINGTON VIL
T.M. 56 P. 585
DEED: 6061
PLAT: 92/
1.567 AC

BEGIN ROLLINS COURT
SWIM POND & TRIBUTARY C/L
SEE PROFILE SHEETS 23, 24 & 26

BARRINGTON
VILLAGE COURT
(4139/499)

ROLLINS COURT
(4139/499)

MATCHLINE SHEET 19

PLAN VIEW

SCALE: 1" = 20'



1 INCH = 20 FEET

EG-SWMENG-000135-2015	#99974
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BAYLAND JOB NO. 4_3602



REVISIONS

HARFORD COUNTY, MARYLAND

BARRINGTON PLACE STREAM RESTORATION
SITE PLAN - ROLLINS COURT TRIBUTARY

DRAWN BY: MDD

DESIGNED BY: RP/MDD

REVIEWED BY :CJS

CONTRACT NO. :

SCALE : 1" = 20'

SHEET 18 OF 53

DATE :01/27/17

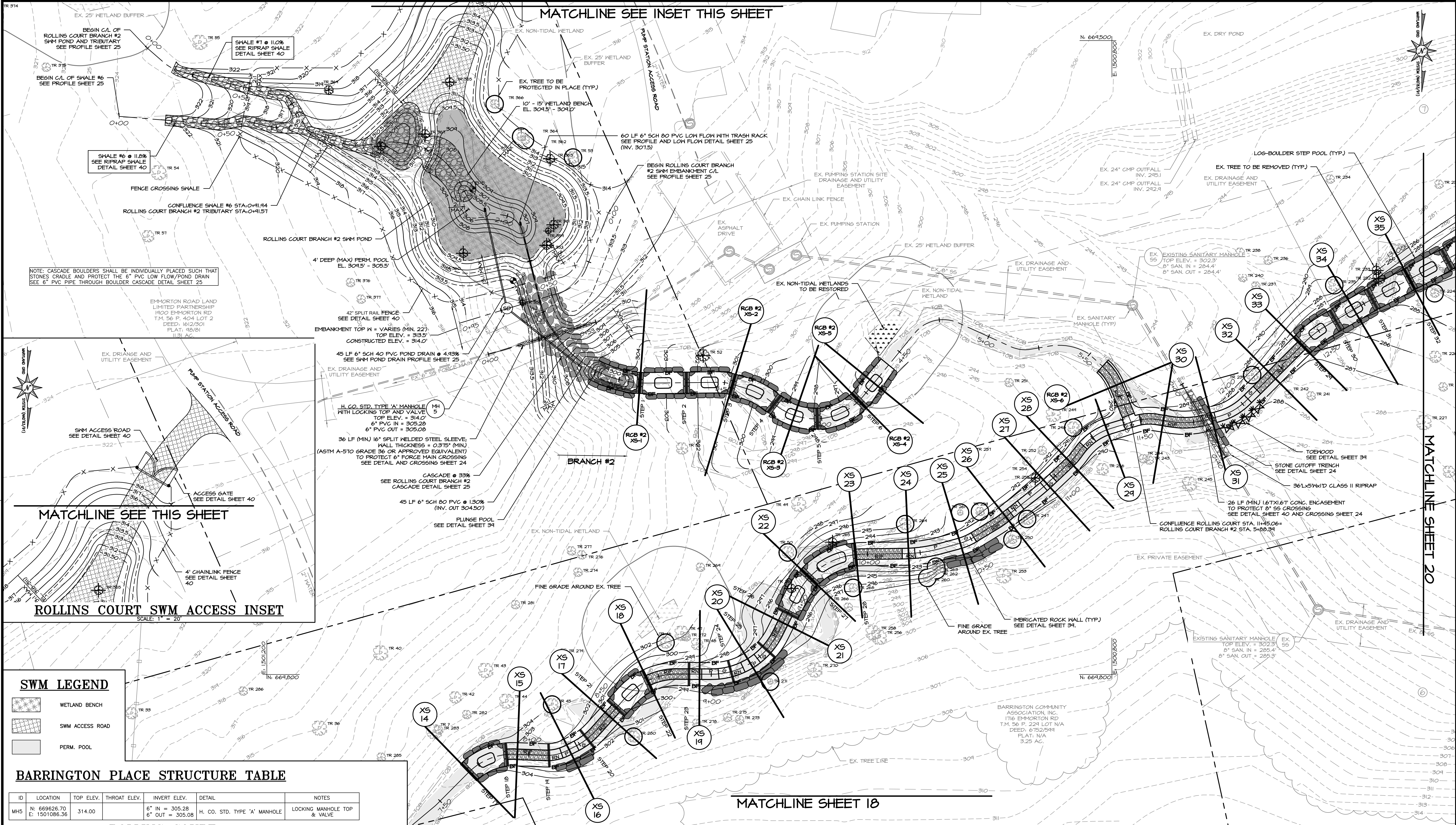
Z:\4 3602 BARRINGTON & ROLLINS FINAL DESIGN\CAD Files\Sheet Files\4 3602 SP05.dwg

TAX MAP :

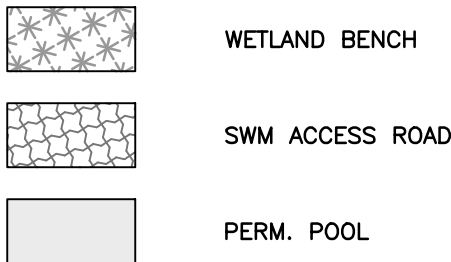
HCG BILLING ID No.:

HCG DWG ID No.:

SCALE: 1 inch



SWM LEGEND



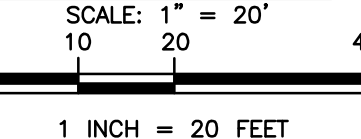
BARRINGTON PLACE STRUCTURE TABLE

ID	LOCATION	TOP ELEV.	THROAT ELEV.	INVERT ELEV.	DETAIL	NOTES
MHS	N: 669626.70 E: 1501086.36	314.00		6" IN = 305.28 6" OUT = 305.08	H. CO. STD. TYPE 'A' MANHOLE	LOCKING MANHOLE TOP & VALVE

ROLLINS COURT BRANCH #2 SWM POND FACILITY ANALYSIS

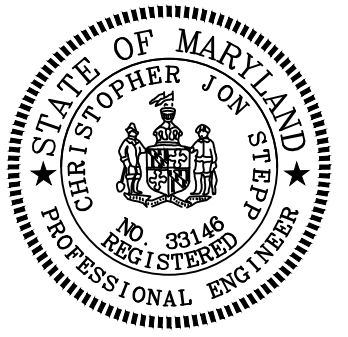
Drainage Area:	8.33 ACRES	EX 10-YR WSE:	N/A
Impervious Area:	0.97 ACRES (11.6%)	EX 10-YR STORAGE:	N/A
Location:	HARFORD COUNTY, MD	EX 10-YR DISCHARGE:	16.1 CFS
Target WQV Storage:	0.14 AC-FT	PR 10-YR WSE:	312.12
PR WQV Wetpool:	0.08 AC-FT	PR 10-YR STORAGE:	0.26 AC-FT
WQV Extended Detention:	0.06 AC-FT	PR 10-YR PEAK DISCHARGE:	14.0 CFS
Total WQV Provided:	0.14 AC-FT		
Target CPV:	0.14 AC-FT	EX 100-YR WSE:	N/A
PR CPV:	0.14 AC-FT	EX 100-YR STORAGE:	N/A
Total ESD Provided:	0.28 AC-FT	EX 100-YR PEAK DISCHARGE:	31.4 CFS
Rainfall Depth Treated:	2.00 INCHES	PR 100-YR WSE:	312.43
Impervious Area Treated:	1.21 ACRES	PR 100-YR STORAGE:	0.31 AC-FT
Total Nitrogen Removal:	37.7 LBS/YR	PR 100-YR PEAK DISCHARGE:	30.7 CFS
Total Phosphorus Removal:	3.0 LBS/YR		
Total Suspended Sediment Removal:	0.8 TONS/YR	Freeboard Required:	1.0' (100-YEAR)
Req. 24HR Drawdown Orifice Size:	1.5 INCH	Freeboard Provided:	1.07' (100-YEAR)
		378 Structure Class:	CLASS 'A'
		Storage Height Product:	0.91 AC-FT-FT

PLAN VIEW



- NOTE:
- TREES TO BE REMOVED ARE SHOWN ON THE EXISTING CONDITIONS SITE PLANS FOR CLARIFICATION
 - SEE SHEET 2 FOR PARCEL INFORMATION

EG-SWMENG-000135-2015 #99974



REVISIONS

HARFORD COUNTY, MARYLAND			
BARRINGTON PLACE STREAM RESTORATION SITE PLAN - ROLLINS COURT TRIBUTARY			
DRAWN BY: MDD	DESIGNED BY: RP/MDD	REVIEWED BY: CJS	CONTRACT NO. :
SCALE: 1" = 20'			SHEET 19 OF 53
DATE: 01/27/17			HCG DWS ID No.: 1100000000

