

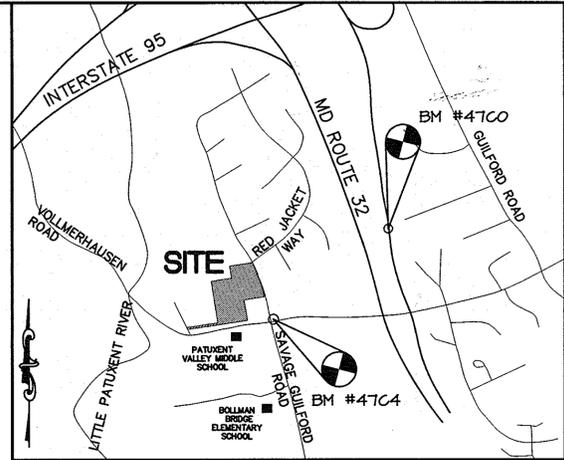
SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	FINAL PLAN
4	FINAL PLAN OF ROSARIA LANE
5	FINAL SWM, GRADING AND SEDIMENT CONTROL PLAN
6	SEDIMENT CONTROL NOTES AND DETAILS
7	ROAD PROFILES
8	STORM SEWER PROFILE
9	LANDSCAPE & FOREST CONSERVATION PLAN
10	LANDSCAPE & FOREST CONSERVATION NOTES AND TABULATIONS
11	CONSTRUCTION DETAILS
12	WORK ZONE TRAFFIC CONTROL PLAN
13	INLET DRAINAGE AREA MAP
14	CULVERT DRAINAGE AREA MAP
15	SOIL BORING LOGS
16	SOIL BORING LOGS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION" PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, (JANUARY 1998)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- THE TOPOGRAPHIC SURVEY WAS PREPARED BY PHR+A IN JUNE 2006. THE BOUNDARY SURVEY WAS PREPARED BY PHR+A IN 2003.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE MARYLAND COORDINATE SYSTEM NAD 83 (MCS). HOWARD COUNTY GEODETIC CONTROL STATION NOS. 47C4 & 47C0.
- THIS PROPERTY WILL BE SERVED BY PUBLIC WATER (CONTRACT #R-3532).
- THIS PROPERTY WILL BE SERVED BY PUBLIC SEWER (CONTRACT #R-3532).
- STORMWATER MANAGEMENT FOR THIS SITE WILL BE PROVIDED BY DRY WELLS, GRASS CHANNELS, ROOFTOP DISCONNECT.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THERE ARE NO WETLANDS, STREAMS, OR FLOODPLAINS LOCATED ON-SITE.
- A TRAFFIC STUDY WAS CONDUCTED FOR THIS PROJECT UNDER S-03-10.
- NO NOISE STUDY WAS REQUIRED FOR THIS PROJECT.
- SUBJECT PROPERTY ZONED R-20.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- THERE IS ONE EXISTING STRUCTURE ON LOT 22 WHICH WILL REMAIN. THERE ARE 2 EXISTING PERMANENT STRUCTURES ON LOT 16 WHICH ARE TO REMAIN. ONE STRUCTURE ON LOT 16 IS AN EXISTING RESIDENCE, AND THE OTHER IS AN EXISTING GUESTHOUSE. ALL OTHER EXISTING STRUCTURES WILL BE REMOVED (SEE NOTE 26 BELOW).
- BASED ON AVAILABLE COUNTY MAPS AND RECORDS, THERE ARE NO HISTORIC STRUCTURES OR KNOWN CEMETERIES LOCATED ON THE SUBJECT PROPERTY.
- THE FOREST CONSERVATION OBLIGATION FOR THIS PLAN AND RELATED F-03-219, PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 13 AND 14, OF 0.68 ACRES (29,621 SF) OF AFFORESTATION, BASED ON THE TOTAL ACREAGE RECORDED ON F-03-219, SHALL BE MET BY THE PAYMENT OF A FEE-IN-LIEU OF \$22,215.60 (29,620.8 SF x \$0.75/SF = \$22,215.60) TO THE HOWARD COUNTY FOREST CONSERVATION FUND WITH THE FINAL RESUBDIVISION PLAN/PLAT.
- LANDSCAPING AND STREET TREES FOR THIS SUBDIVISION WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL NO. 45-2003 AND THE AMENDED ZONING REGULATIONS PER COUNCIL BILL NO. 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS/PARCELS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE BUILDING/GRADING PERMIT APPLICATIONS.
- SEE DEPARTMENT OF PLANNING & ZONING FILE NUMBERS: S-03-10, F-03-219, NCU-02-06, F-93-139, F-92-101, F-92-07, F-90-142, S-91-10, WP-93-54, & WP-91-35, P-07-003.
- A NON-CONFORMING USE PETITION (NCU-02-06) TO ALLOW TWO RESIDENTIAL STRUCTURES ON PROPOSED LOT 16 WAS GRANTED ON FEBRUARY 27, 2003.
- WP-93-54 WAS APPROVED ON DECEMBER 31, 1992 TO WAIVE SECTIONS 16.113.(f)(7) AND 16.115.(c)(4) TO ALLOW DIRECT ACCESS ONTO VOLLMERHAUSEN ROAD, A MAJOR COLLECTOR ROAD FOR 5 LOTS SHARING A USE-IN-COMMON PRIVATE ROAD AND FROM SECTION 16.115.(b)(5) TO ALLOW A PRIVATE ROAD TO EXCEED 200 FEET IN LENGTH TO APPROXIMATELY 700 FEET, SUBJECT TO THE FOLLOWING CONDITIONS:
 - COMPLIANCE WITH DPW COMMENTS DATES DECEMBER 22, 1992.
 - THE APPLICANT SHALL PROVIDE ON ALL PLANS A 30 FOOT WIDE MINIMUM USE-IN-COMMON EASEMENT FOR INGRESS AND EGRESS TO SERVE LOTS 8-13. THE EASEMENT SHALL BE CENTERED ON THE PRIVATE ROAD.
 - THE APPLICANT SHALL EXECUTE AND RECORD IN THE HOWARD COUNTY LAND RECORDS OFFICE A "DECLARATION OF MAINTENANCE OBLIGATION AGREEMENT FOR THE USE-IN-COMMON ACCESS AREA", WHICH SHALL SPECIFY THE PRIVATE MAINTENANCE RESPONSIBILITIES OF THE LOT OWNERS OF THE PROPOSED SUBDIVISION FOR THE PRIVATE ROAD. THE RECORDING REFERENCES OF THIS DOCUMENT MUST BE ADDED TO THE PLAT PRIOR TO THE ACCEPTANCE OF THE PLAT ORIGINALS FOR RECORDATION. THE RECORDING REFERENCES MUST BE ADDED TO THE PLAT PRIOR TO THE SUBMISSION OF PLAT ORIGINALS.
 - THE APPLICANT SHALL PROVIDE A HOUSE NUMBER IDENTIFICATION SIGN WHERE THE USE-IN-COMMON PRIVATE ROAD ENTRANCE MEETS THE PUBLIC STREET IN ACCORDANCE WITH THE HOUSE NUMBERING SYSTEM AND SIGN DESIGN STANDARDS.
- WP-91-35 WAS A WAIVER TO WAIVE SECTIONS 16.113.(f)(7) AND 16.115.(c)(4) TO ALLOW DIRECT ACCESS ONTO VOLLMERHAUSEN ROAD, A MAJOR COLLECTOR ROAD FOR AN EXISTING DRIVEWAY WHICH SERVED THE ADJOINING DONALD BLAIR PROPERTY AND LOT 4 AND WHICH WAS APPROVED ON NOVEMBER 1, 1990.
- THE PRIVATE SIGHT DISTANCE ACCESS EASEMENT SHOWN ON LOT 15 PROVIDES ADEQUATE SIGHT DISTANCE FOR THE DRIVEWAY SERVING LOTS 17-21. THIS EASEMENT AREA SHALL REMAIN CLEAR OF ALL OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, FENCES, AND STRUCTURES.

FINAL PLAN PROPERTY OF ALFIO NICOTRA PROPERTY LOTS 15-22

A RESUBDIVISION OF LOTS 13 & 14 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE 1"=1000'
ADC MAP 20
GRID # B5

BENCH MARKS

HOWARD COUNTY MONUMENT 47C0
N 540,529.712 E 1,362,460.513 ELEV.286.462
STANDARD STAMPED BRASS OR ALUMINUM DISC ON
CONCRETE MONUMENT: 0.3' BELOW SURFACE
LOCATED ON NORTH-EAST CORNER OF VOLLMERHAUSEN
RD. AND SAVAGE-GUILFORD RD. INTERSECTION.
70.63' SOUTH OF BGE POLE 309354.

HOWARD COUNTY MONUMENT 47C4
N 539,645.665 E 1,361,379.426 ELEV.288.807
STANDARD STAMPED BRASS OR ALUMINUM DISC ON
CONCRETE MONUMENT: 0.3' BELOW SURFACE
LOCATED ON WESTERN SIDE OF RT 32 WBL
ACROSS FROM CARROLL HEIGHTS AVE. DEAD END
16' WEST OF 3 REBARS SET 4' OFF RT. 32

SITE TABULATION

EXISTING ZONING	R-20
GROSS AREA OF PROPERTY	4.4960 AC
AREA IN 100 YR. FLOODPLAIN AND STEEP SLOPES	0 AC
NET TRACT AREA	4.4654 AC
AREA OF PROPOSED BUILDABLE LOTS	4.4654 AC
MINIMUM LOT SIZE	20,000 SF
AREA OF ROAD DEDICATION	0.0306 AC
AREA OF REQUIRED OPEN SPACE (6% OF GROSS)	0.27 AC (11,761.2 SF)
AREA OF PROVIDED OPEN SPACE*	
CREDITED	0 AC
TOTAL PROVIDED	0 AC
NUMBER OF BUILDABLE LOTS	8 (INCLUDES 1 EX. HOUSE ON LOT 22 AND 2 EX. HOUSES ON LOT 16. SEE GENERAL NOTES 20 & 26)
NUMBER OF OPEN SPACE LOTS	0
PROPOSED WATER AND SEWER	PUBLIC
* A FEE-IN-LIEU OF THE OPEN SPACE REQUIREMENT WILL BE PAID.	

MINIMUM LOT SIZE TABULATION

LOT NO.	GROSS AREA	LESS PIPESTEM	REMAINING AREA/ MIN. LOT SIZE
15	22,971	0	22,971
16	27,945	0	27,945
17	23,819	1,813	22,006
18	23,979	2,452	21,527
19	22,227	1,649	20,578
20	23,308	1,831	21,477
21	29,391	7,731**	21,652
22	20,311	0	20,311

* ALL AREAS SHOWN ABOVE ARE IN SQUARE FEET.

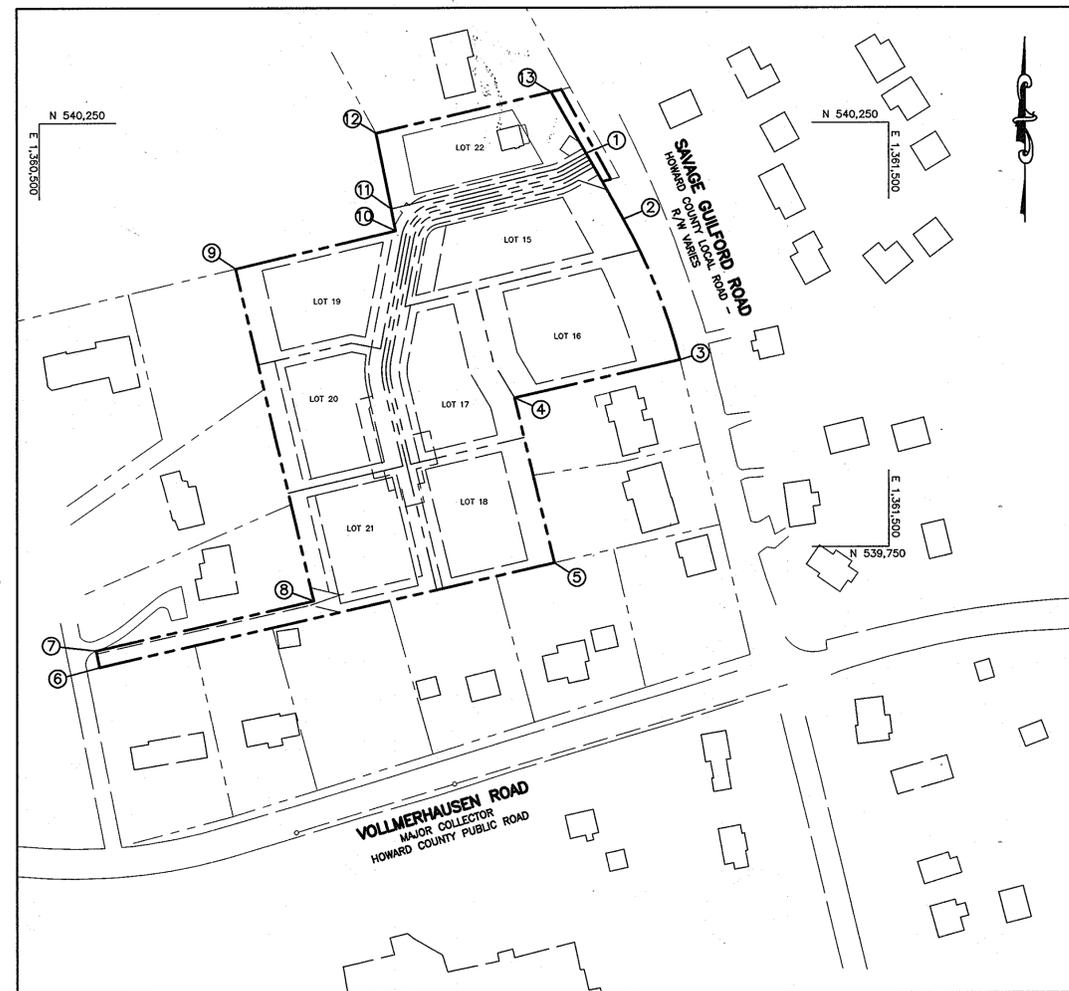
** LOT 21 HAS 2 PIPESTEM AREAS: THE PIPESTEM LEADING TO SAVAGE GUILFORD ROAD CONTAINS 2,481 SF AND THE PIPESTEM FOR THE ACCESS EASEMENT CONTAINS 5,251 SF (2,481 SF + 5,250 SF = 7,731 SF).

LEGEND

- EX. PROPERTY LINE -----
- PROP. PROPERTY LINE - - - - -
- PROP. LOT LINE - - - - -
- BUILDING RESTRICTION LINE - - - - -
- EX. PAVEMENT - - - - -
- EX. BUILDING [Symbol]

COORDINATE LIST

1	N 540,213.96	E 1,361,143.93
2	N 540,136.40	E 1,361,187.56
3	N 539,970.53	E 1,361,254.23
4	N 539,924.94	E 1,361,059.75
5	N 539,731.39	E 1,361,106.09
6	N 539,608.57	E 1,360,570.36
7	N 539,628.13	E 1,360,566.43
8	N 539,686.88	E 1,360,922.67
9	N 540,078.29	E 1,360,730.89
10	N 540,122.95	E 1,360,919.43
11	N 540,148.78	E 1,360,914.30
12	N 540,238.04	E 1,360,896.57
13	N 540,286.32	E 1,361,103.67

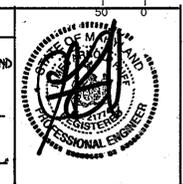


PLAN
HOR. SCALE: 1" = 100'

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.

JAMES A. RUFF 421774
9/18/12



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. 21774, EXPIRATION DATE: 11-10-2013.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Walter R. M.../A
CHIEF, BUREAU OF HIGHWAYS 1-28-09 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cindy Hamilton
CHIEF, DIVISION OF LAND DEVELOPMENT 2/28/08 DATE

Walter R. M.../A
CHIEF, DEVELOPMENT ENGINEERING DIVISION 2/12/08 DATE

1/16/09 REVERSE SIGHT DISTANCE EASEMENT

OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

DEVELOPER ALFIO & ANITA NICOTRA AL NICOTRA
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22
A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18)
6th ELECTION DISTRICT ZONED R20
HOWARD COUNTY, MARYLAND

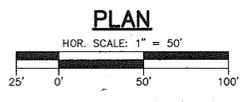
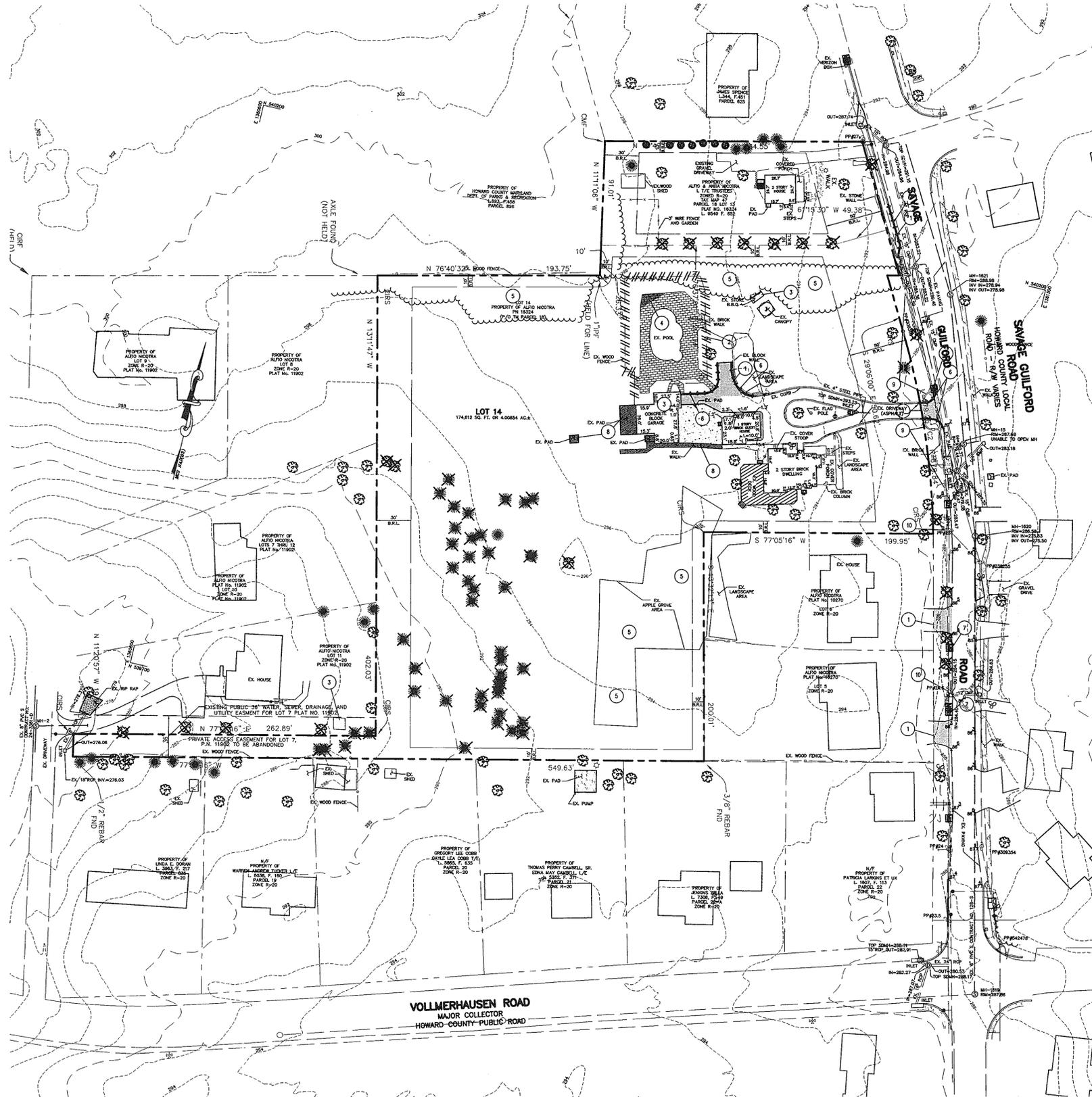
TITLE TITLE SHEET

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY: PJS/JSN
DRAWN BY: JSN
PROJECT NO: P400COV.DWG
DATE: JANUARY 17, 2008
SCALE: 1" = 60'
DRAWING NO. 1 OF 16

AS-BUILT





DEMOLITION NOTES

1. ALL MATERIALS DEMOLISHED, UNLESS IDENTIFIED TO BE SALVAGED (CONCRETE, PAVING, AND OTHER DEBRIS), SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER FEDERAL, STATE AND LOCAL REGULATIONS. ALL COSTS OF HAULING, DISPOSAL AND TIPPING FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF THE BASE BID.
2. ALL QUANTITIES OF DEMOLITION SHALL BE DETERMINED BY THE CONTRACTOR AND COVERED IN THE BASE BID. CONTRACTOR SHALL MAKE NECESSARY SITE INSPECTIONS PRIOR TO BID TO VERIFY ALL QUANTITIES TO HIS SATISFACTION.
3. CONTRACTOR SHALL REFER TO SEPARATE PLANS IN THE PRELIMINARY/FINAL/SITE DEVELOPMENT PLAN (STORMWATER MANAGEMENT, SEDIMENT CONTROL, PAVING, WATER/SEWER, ETC.) TO DETERMINE APPROPRIATE SEQUENCE OF ALL DEMOLITION ACTIVITIES.
4. EXISTING TREES NOT SHOWN TO BE REMOVED SHALL REMAIN. CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES TO AVOID DAMAGE TO TREES DURING CONSTRUCTION ACTIVITIES.
5. REFER TO SEPARATE PLAN FOR SEDIMENT AND EROSION CONTROL REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANY PRIOR TO REMOVAL OR RELOCATION OF ANY EXISTING UTILITIES.
7. EXISTING UTILITY LINES HAVE BEEN SHOWN USING THE BEST AVAILABLE RECORDS OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL CALL MISS UTILITY TO LOCATE ALL UNDERGROUND UTILITY LINES AND SUPPLEMENT THOSE MARKINGS BY ENGAGING A PRIVATE UTILITY LOCATING COMPANY (AT CONTRACTORS EXPENSE) TO ENSURE THAT ALL EXISTING UTILITIES HAVE BEEN MARKED.
8. EXISTING PAVING SHOWN TO BE REMOVED SHALL BE REPLACED AS REQUIRED BY APPROVED CONSTRUCTION PLANS.

LEGEND

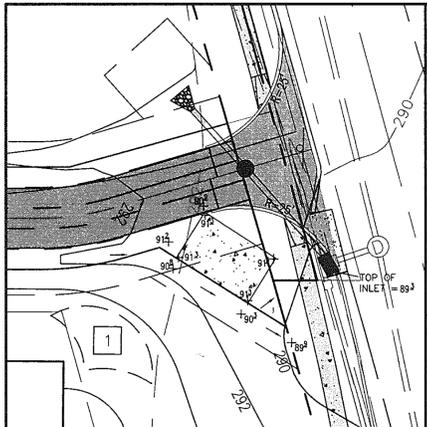
EX. TREES	
EX. TREES TO BE REMOVED	
EX. BITUMINOUS PAVING TO BE REMOVED	
EX. FENCE TO BE REMOVED	
EX. CURB AND GUTTER TO BE REMOVED	
EX. CONCRETE TO BE REMOVED	

DEMOLITION KEY:

- | | |
|----|--------------------------------------|
| 1 | REMOVE EXISTING BITUMINOUS PAVING |
| 2 | REMOVE EXISTING FENCE(S) AND GATE(S) |
| 3 | REMOVE EXISTING STRUCTURE |
| 4 | REMOVE EXISTING POOL DECK |
| 5 | REMOVE EXISTING TREES/VEGETATION |
| 6 | REMOVE EXISTING CURB AND GUTTER |
| 7 | RELOCATE EXISTING MAILBOX |
| 8 | REMOVE EXISTING CONCRETE PAVING |
| 9 | REMOVE EXISTING WALL |
| 10 | RELOCATE EXISTING UTILITY POLES |

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Walter Z. Malachuk</i>	1-29-08 DATE
CHIEF, BUREAU OF HIGHWAYS	
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Cristy Hamilton</i>	2/2/08 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	
<i>Chris DeMunnich</i>	2/12/08 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
DATE NO.	REVISION
OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159	
DEVELOPER ALFIO & ANITA NICOTRA 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159	
PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18	
AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18) 6th ELECTION DISTRICT ZONED R20 HOWARD COUNTY, MARYLAND	
TITLE EXISTING CONDITIONS AND DEMOLITION PLAN	
Patton Harris Rust & Associates, pc Engineers. Surveyors. Planners. Landscape Architects. 8819 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
SEAL	01/17/08
DESIGNED BY : PJS/JSN	
DRAWN BY: JSN	
PROJECT NO : 11511-1-1 C900DEM	
DATE : JANUARY 17, 2008	
SCALE : 1" = 50'	
DRAWING NO. 2 OF 16	

CALL "MISS UTILITY"
AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION
AT
1-800-257-7777



LEGEND

- EX. SIGN
 - EX. SANITARY SEWER MANHOLE
 - EX. STORM DRAIN MANHOLE
 - EX. WATER VALVE
 - EX. FIRE HYDRANT
 - EX. SANITARY CLEAN OUT
 - EX. POWER POLE
 - EX. MAIL BOX
 - EX. TREE
 - EX. WATER METER
 - EX. LIGHT POLE
 - EX. PINE TREE
 - EX. WATER METER
 - EX. BOLLARDS
 - EX. A/C UNIT
 - EX. UNKNOWN MANHOLE
 - IRON PIPE FOUND
 - EX. PLANTS
- DENOTES CONCRETE
- PROPOSED STORM DRAIN PIPE
- PROPERTY LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- SETBACK LINE
- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- NEW CONCRETE CURB

NOTE:
ALL STORM PIPING AND STRUCTURES WITHIN THE DEVELOPMENT SHALL BE PRIVATE.

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter R. Smith 1-29-08
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chris Hanter 2/24/08
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

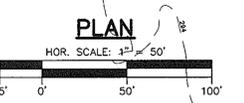
Chris Hanter 2/12/08
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

NOTE:
CONTRACTOR SHALL RELOCATE EXISTING SEWER CLEANOUTS REQUIRED BY THE PROPOSED ROAD WIDENING

1/16/08	REVERSE SIGHT DISTANCE EXEMPT
DATE NO.	REVISION
OWNER	ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159
DEVELOPER	ALFIO & ANITA NICOTRA AL NICOTRA 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159
PROJECT	PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18
AREA	LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRD 5 P 18) 6th ELECTION DISTRICT ZONED R20 HOWARD COUNTY, MARYLAND
TITLE	FINAL PLAN
Patton Harris Rust & Associates, pc	Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282

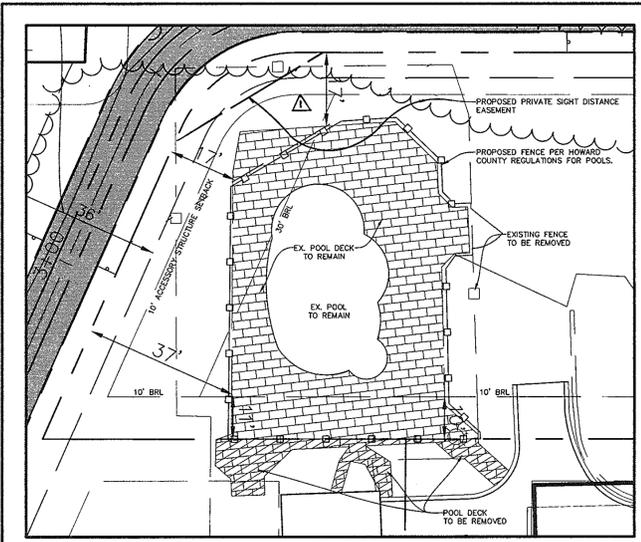
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21714, EXPIRATION DATE: 11-10-2013.

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.
 JAMES A. RUFF #21714
 9/15/12



AS-BUILT

DESIGNED BY : PJS/JSN
 DRAWN BY : JSN
 PROJECT NO : 11511-1-1 C400SIT
 DATE : JANUARY 17, 2008
 SCALE : 1" = 50'
 DRAWING NO. 3 OF 16



INSET
SCALE: 1" = 20'

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD LENGTH
C1	161°15'0"	62.00'	17.65'	8.89'	N68°27'36"E	17.59
C2	65°56'43"	42.00'	48.34'	27.25'	S43°58'39"W	45.72
C3	24°06'19"	80.00'	33.66'	17.08'	S01°22'52"E	33.41

LINE TABLE		
LINE	LENGTH	BEARING
L1	48.69'	S60°18'11"W
L2	144.74'	S76°37'01"W
L3	144.56'	S10°40'18"W
L4	116.04'	S13°26'01"E

LEGEND

- EX. SIGN
- EX. SANITARY SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY CLEAN OUT
- EX. POWER POLE
- EX. MAIL BOX
- EX. TREE
- EX. WATER METER
- EX. LIGHT POLE
- EX. PINE TREE
- EX. WATER METER
- EX. BOLLARDS
- EX. A/C UNIT
- EX. UNKNOWN MANHOLE
- IRON PIPE FOUND
- EX. PLANTS
- DENOTES CONCRETE
- PROPOSED STORM DRAIN PIPE
- PROPERTY LINE
- EXISTING TREE LINE
- SETBACK LINE
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- NEW CURB
- CENTERLINE BEARING DATA LABEL

STREET LIGHT DATA

LOCATION: 15' RIGHT OF CL STA 0+13 ROSARIA LANE
POLE HEIGHT = 30' LIGHT FIXTURES = 150W HPS
POLE TYPE = BLACK FIBERGLASS

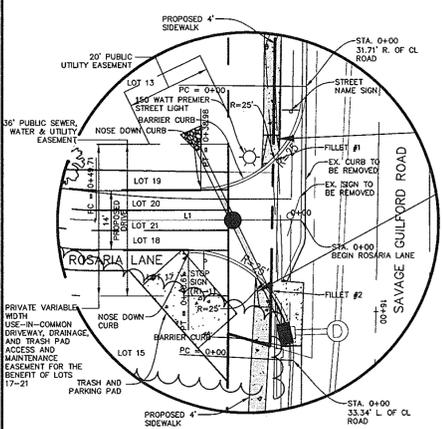
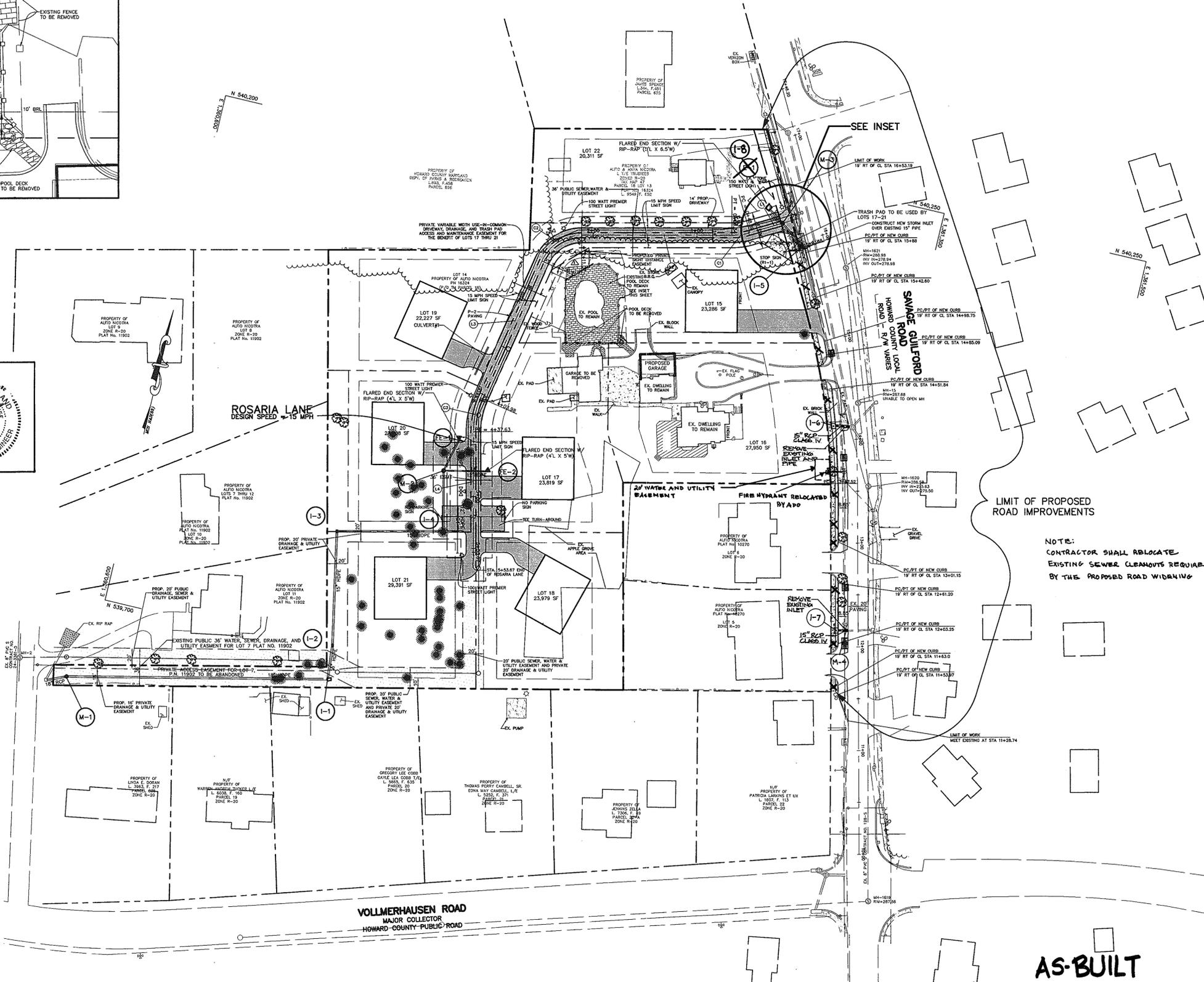
LOCATION: 10' RIGHT OF CL STA = 2+25 ROSARIA LANE
LOCATION: 10' RIGHT OF CL STA = 4+05 ROSARIA LANE
LOCATION: 10' RIGHT OF CL STA = 5+53 ROSARIA LANE (TEE)
POLE HEIGHT = 30' LIGHT FIXTURES = 100W HPS
POLE TYPE = BLACK FIBERGLASS

NOTE:
ALL STORM PIPING AND STRUCTURES WITHIN THE DEVELOPMENT SHALL BE PRIVATE.

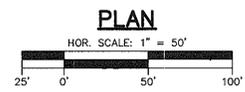
AS-BUILT CERTIFICATION

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.

JAMES A. RUFF #2174
Professional Engineer
9/18/12



INSET
SCALE: 1" = 20'



AS-BUILT

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. 2174. EXPIRATION DATE: 11-10-2015.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter Z. Maltz 1-28-08
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Cindy Hamstra 2/2/05
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John D. ... 2/12/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

1/6/09	1	REVISE SIGHT DISTANCE EASEMENT
DATE NO.		REVISION

OWNER: ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST
DATED AUGUST 22, 2005
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

DEVELOPER: ALFIO & ANITA NICOTRA
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

PROJECT: **PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22**
A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA: LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18)
6th ELECTION DISTRICT ZONED R20
HOWARD COUNTY, MARYLAND

TITLE: **FINAL PLAN OF ROSARIA LANE**

Patton Harris Rust & Associates, p.c.
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL: 01/14/08
DESIGNED BY: PJS/JSN
DRAWN BY: JSN
PROJECT NO: 115111-1-1
C400ROAD
DATE: JANUARY 17, 2008
SCALE: 1" = 50'
DRAWING NO. 4 OF 16

SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GRADE	SLOPE %
SIC2	SASSAFRAS LOAM	B	5 - 10
MyC3	MANOR GRAVELLY LOAM	B	8 - 15
DeB2	DELANCO SILT LOAM	B	3 - 8
WaB	WATCHUNY SILT LOAM	B	3 - 8
EnC2	EL SINBORO LOAM	B	8 - 15
EnB2	EL SINBORO LOAM	B	3 - 8
CnB2	CHILLUM-FAIRFAX LOAM	B	1 - 5
CnD3	CHILLUM-FAIRFAX LOAM	B	5 - 15
MpB2	MONTALTO SILT LOAM	C	3 - 8
KeB2	KELLY SILT LOAM	D	3 - 8

LEGEND

- EX. SIGN
 - EX. SANITARY SEWER MANHOLE
 - EX. STORM DRAIN MANHOLE
 - EX. WATER VALVE
 - EX. FIRE HYDRANT
 - EX. SANITARY CLEAN OUT
 - EX. POWER POLE
 - EX. MAIL BOX
 - EX. TREE
 - EX. WATER METER
 - EX. LIGHT POLE
 - EX. PINE TREE
 - EX. WATER METER
 - EX. BOLLARDS
 - EX. A/C UNIT
 - EX. UNKNOWN MANHOLE
 - IRON PIPE FOUND
 - EX. PLANTS
- DENOTES CONCRETE
 PROPOSED STORM DRAIN PIPE
 PROPERTY LINE
 EXISTING TREE
 SETBACK LINE
 SOIL BORING LOCATION
 LIMIT OF DISTURBANCE
 SOIL DIVIDE
 SILT FENCE
 EROSION CONTROL MATTING
 STABILIZED CONSTRUCTION ENTRANCE
 PROPOSED DRY WELL
 PROPOSED SIDEWALK
 EXISTING SIDEWALK



PLAN

HOR. SCALE: 1" = 50'

NOTE:
ALL STORM PIPING AND STRUCTURES WITHIN THE DEVELOPMENT SHALL BE PRIVATE.

BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
Alfio Nicotra 01/16/08
DEVELOPER DATE

BY THE ENGINEER :
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Det. W. C. K. 01/14/08
ENGINEER DATE

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS.
[Signature]
SDA NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John L. Robertson 1/24/08
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William R. Smith 1-28-08
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Cindy Hunter 2/1/08
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
Chris Dammann 2/1/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

1.6 OF 1 REVERSE SIGHT DISTANCE EASEMENT
DATE NO. REVISION

OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

DEVELOPER ALFIO & ANITA NICOTRA
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRD 5 P 18) 6th ELECTION DISTRICT ZONED R20 HOWARD COUNTY, MARYLAND

TITLE FINAL SWM, GRADING AND SEDIMENT CONTROL PLAN
Patton Harris Rust & Associates, p.c.
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL 01/14/08
DESIGNED BY : PJS/JSN
DRAWN BY: JSN
PROJECT NO : 11511-1-1 C200ESC
DATE : JANUARY 17, 2008
SCALE : 1" = 50'
DRAWING NO. 5 OF 16

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL (MDE G-21-1 THROUGH MDE G-21-3)

DEFINITION
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTATION STATION.

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- i. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1-1/2" IN DIAMETER.
- ii. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- iii. WHERE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES. 20.0

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

- i. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

- i. ON SOIL MEETING TOPSOIL SPECIFICATIONS OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
 - a. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
 - b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 - c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES TO AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY MAY BE USED IN LIEU OF NATURAL TOPSOIL.

- ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

V. TOPSOIL APPLICATION

- i. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
- ii. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION.
- iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- iv. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION.

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

- i. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITE HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
 - b. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
 - c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
 - d. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES:

GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VIA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE. (1 WEEK)
3. BEGIN ROUGH GRADING AND BUILDING CONSTRUCTION.
4. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM INLETS, INLET PROTECTION, AND WATER AND SEWER. (6 WEEKS)
5. INSTALL CURB AND GUTTER THEN PROCEED WITH ASPHALT PAVING. (6 WEEKS)
6. APPLY TOPSOIL AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS)
7. PERFORM FINE GRADING, LANDSCAPING, LIGHTING, SIDEWALK, AND COMPLETE BUILDING CONSTRUCTION. (6 MONTHS)
8. UPON PERMISSION OF COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAY)

STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).

2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 147 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1. B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7. SITE ANALYSIS:

TOTAL AREA OF SITE	4.00 ACRES
AREA DISTURBED	3.80 ACRES
AREA TO BE ROOFED OR PAVED	1.00 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.80 ACRES
TOTAL CUT	3,700 CU. YARDS
TOTAL FILL	2,600 CU. YARDS
OFFSITE WASTE AREA LOCATION TO HAVE ACTIVE GRADING PERMIT	

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.

13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.

14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1000 SQ.FT.).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS. PER 1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS. PER 1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL. PER 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (8 GAL. PER 1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

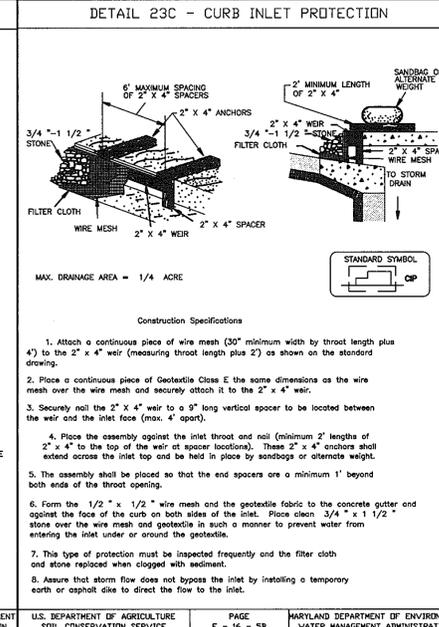
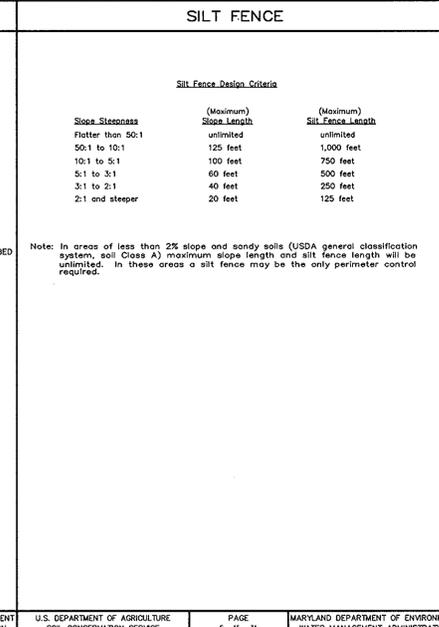
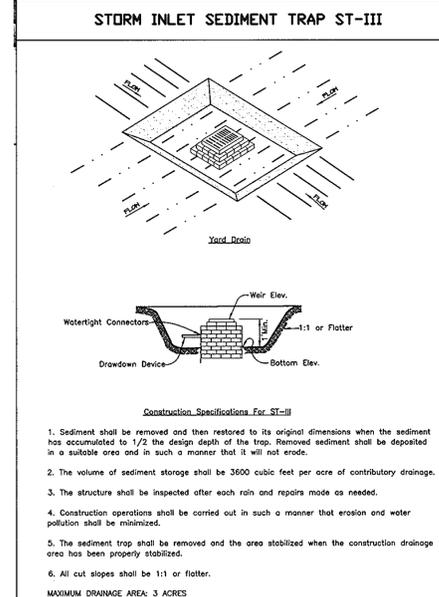
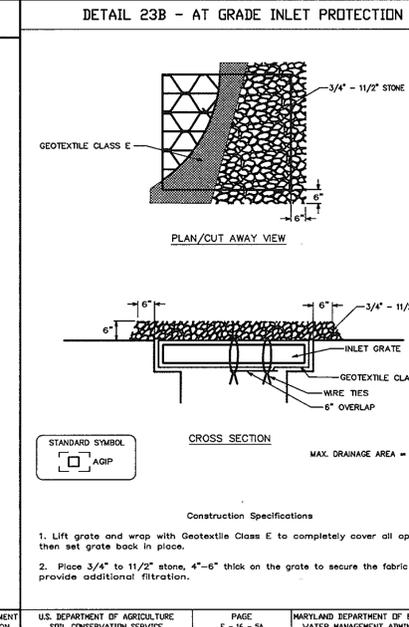
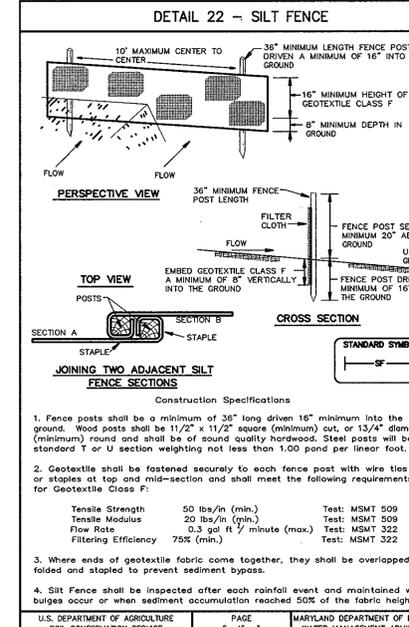
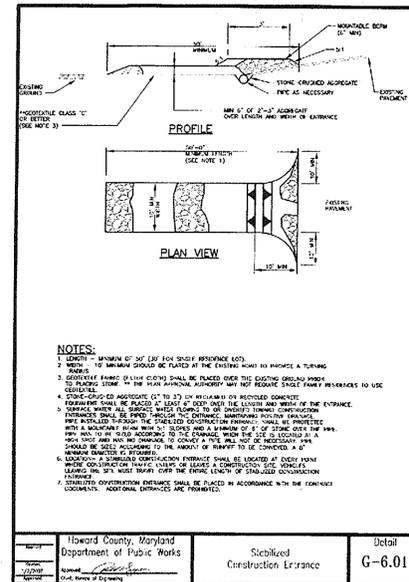
- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS. PER 1000 SQ.FT.).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. PER 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIOD MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. PER ACRE KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS. PER 1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY ONE OF THE FOLLOWING OPTIONS:

- 1) 2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING.
- 2) USE SOD.
- 3) SEED WITH 60 LBS. PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL. PER 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (8 GAL. PER 1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Alfio Nicotra 01/16/08
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

D. W. C. P. 01/14/08
ENGINEER DATE

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John R. Robertson
USDA NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson 1/24/08
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Walter Z. Hubert 1-28-08
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cindy Hamilton 2/2/08
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John D. Dammann 2/2/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE NO. REVISION

OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159

DEVELOPER ALFIO & ANITA NICOTRA AL NICOTRA 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159

PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRD 5 18) 6th ELECTION DISTRICT ZONED R20 HOWARD COUNTY, MARYLAND

TITLE SEDIMENT CONTROL NOTES AND DETAILS

Patton Harris Rust & Associates, p.c. Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282

DESIGNED BY: PJS/JSN

DRAWN BY: JSN

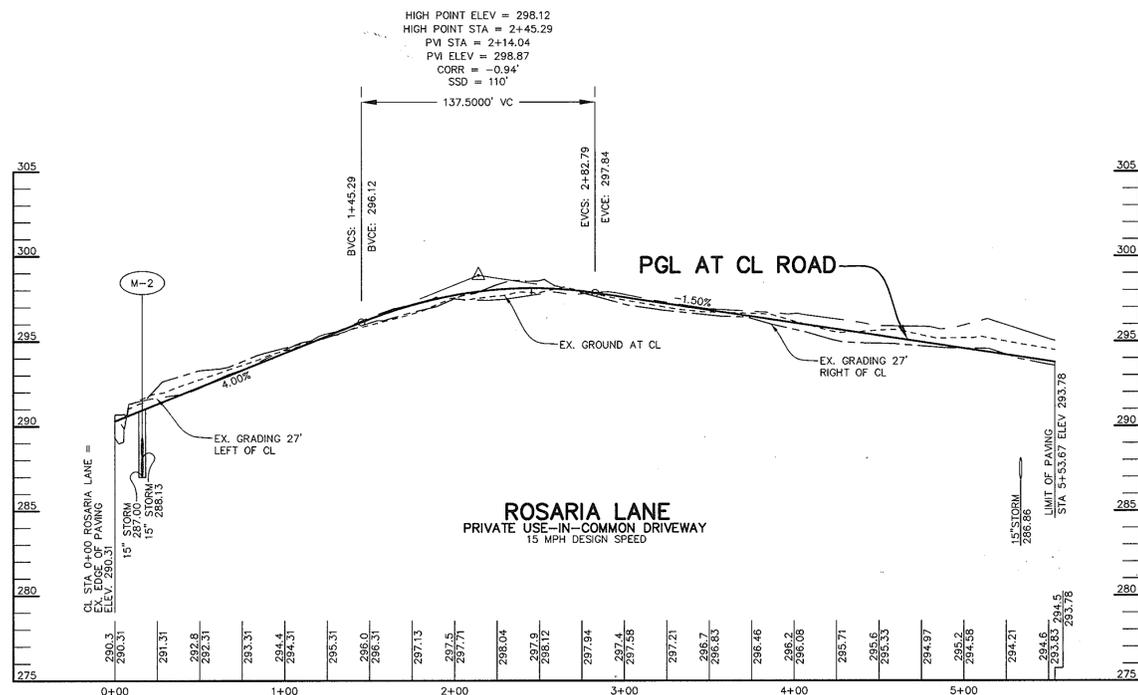
PROJECT NO: C601DET

DATE: JANUARY 17, 2008

SCALE: AS SHOWN

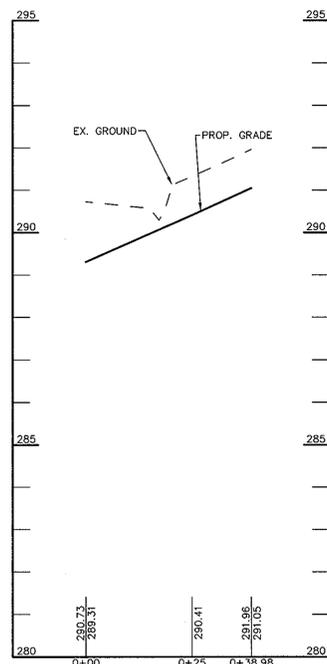
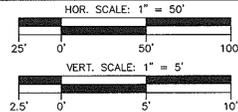
DRAWING NO. 6 OF 16

F-07-211

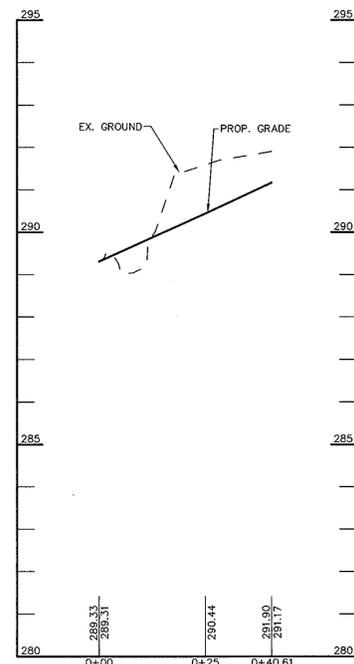
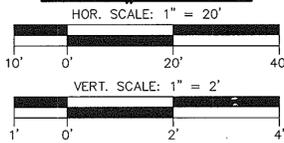


PROFILE - ROSARIA LANE

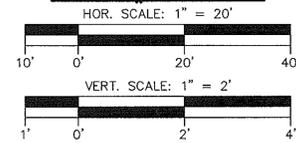
GENERAL NOTE:
 1. FILL SHALL BE "95% COMPACTED PER AASHTO STANDARD T-180".



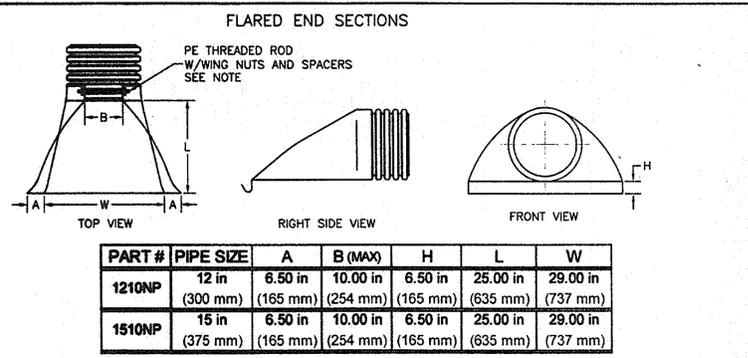
FILLET #1 PROFILE



FILLET #2 PROFILE



APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Walter Z. Malachuk</i> CHIEF, BUREAU OF HIGHWAYS	1-28-08 DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Cindy Harter</i> CHIEF, DIVISION OF LAND DEVELOPMENT	2/10/08 DATE
<i>John Dammann</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	2/12/08 DATE
DATE	REVISION
OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159	
DEVELOPER ALFIO & ANITA NICOTRA AL NICOTRA 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159	
PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18	
AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRD 5 P 18) 6th ELECTION DISTRICT ZONED R20 HOWARD COUNTY, MARYLAND	
TITLE ROAD PROFILES	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
SEAL 	DESIGNED BY : PJS/JSN
BY: <i>John Dammann</i>	DRAWN BY: JSN
PROFESSIONAL QUESTION: 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. 217282, EXPIRATION DATE: 12/31/08	PROJECT NO : 11511-1-1 C700PRO
	DATE : JANUARY 17, 2008
	SCALE : AS SHOWN
	DRAWING NO. 7 OF 16



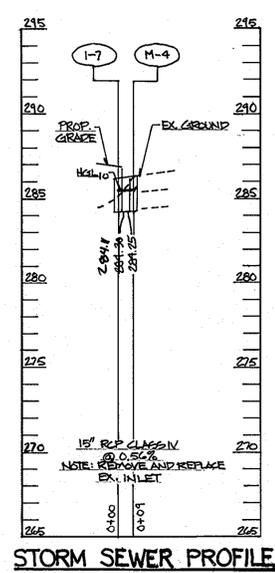
PART #	PIPE SIZE	A	B (MAX)	H	L	W
1210NP	12 in (300 mm)	6.50 in (165 mm)	10.00 in (254 mm)	6.50 in (165 mm)	25.00 in (635 mm)	29.00 in (737 mm)
1510NP	15 in (375 mm)	6.50 in (165 mm)	10.00 in (254 mm)	6.50 in (165 mm)	25.00 in (635 mm)	29.00 in (737 mm)

STRUCTURE E-1, FE-1, & FE-2
NOT TO SCALE

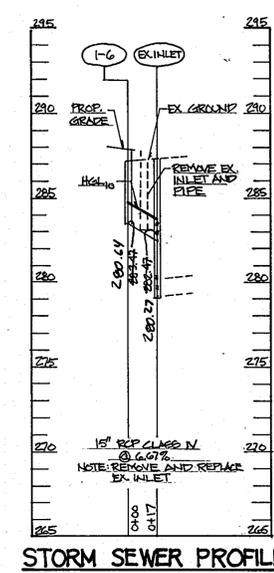
NOTE: PE THREADED ROD W/WING NUTS PROVIDED FOR END SECTIONS 12"-24". 30" & 36" END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLY.

REVISIONS	
BY	DATE
AWM	01.31.05

NOTE: ALL DIMENSIONS ARE NOMINAL



STORM SEWER PROFILE
HOR. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

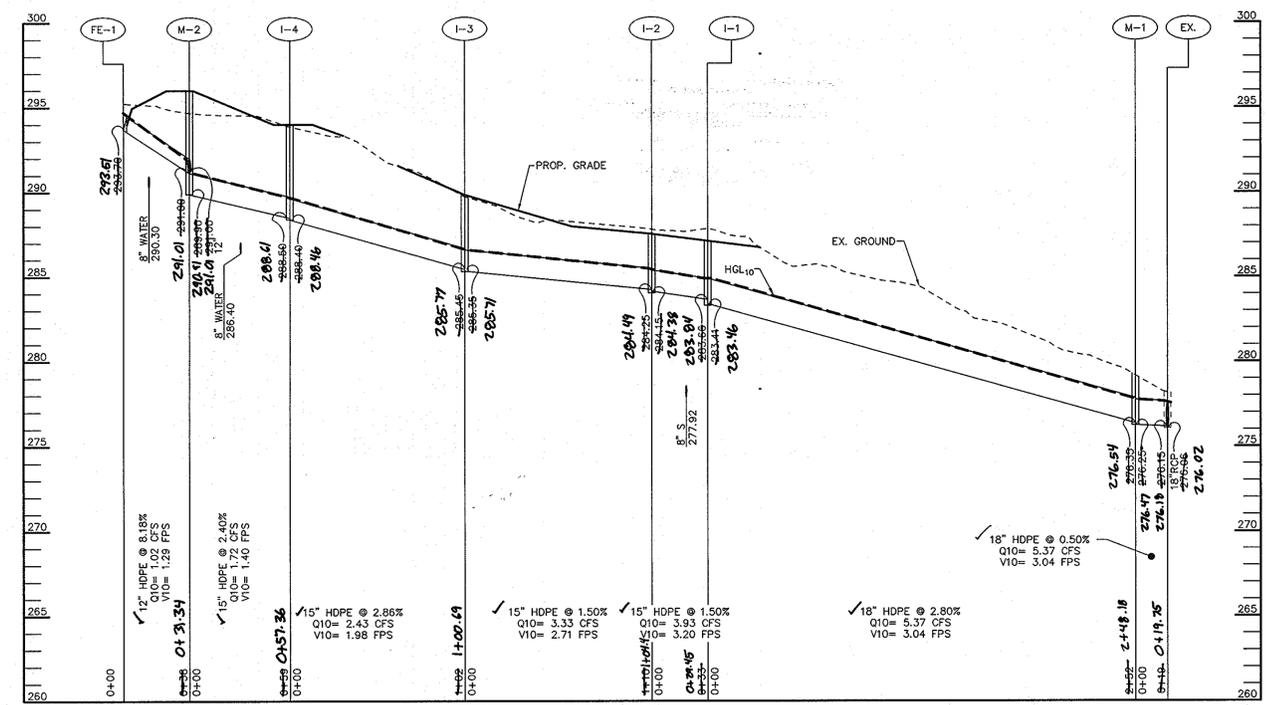


STORM SEWER PROFILE
HOR. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

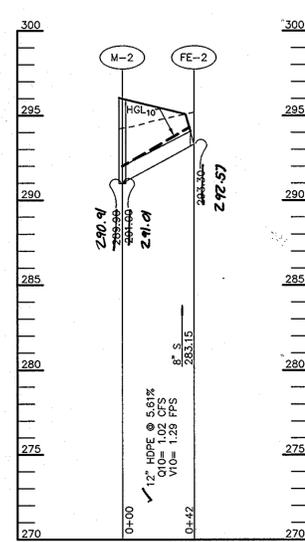
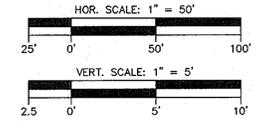
STRUCTURE SCHEDULE						
STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	WR INLET	N 539675.5062 E 1360826.4008	283.66	283.41	287.16	HO. CO. STD. DETAIL D-4.95
I-2	WR INLET	N 539708.3281 E 1360823.3517	284.25	284.15	287.44	HO. CO. STD. DETAIL D-4.95
I-3	YARD INLET	N 539816.2429 E 1360801.9300	285.45	285.35	289.60	HO. CO. STD. DETAIL D-4.14
I-4	YARD INLET	N 539840.1132 E 1360901.9100	288.50	288.40	293.96	HO. CO. STD. DETAIL D-4.14
I-5	A-5 INLET	N 540188.3159 E 1361175.7776	286.70	286.59 (EX.)	289.68	HO. CO. STD. DETAIL D-4.01
FE-1	FLARED END SECTION	N 539905.6853 E 1360928.1348	293.70	291.00	-	SEE DETAIL THIS SHEET
FE-2	FLARED END SECTION	N 539928.8904 E 1360895.8895	293.30	291.00	-	SEE DETAIL THIS SHEET
I-8	5 INLET	N 540215.1301 E 1361135.2261	-	288.20	-	HO. CO. STD. DETAIL D-4.01
M-1	4' DIA. MANHOLE	N 539619.7655 E 1360580.8605	276.35	276.25	279.70	HO. CO. STD. DETAIL G-5.12
M-2	4' DIA. MANHOLE	N 539896.9390 E 1360888.3369	291.00	289.90	295.74	HO. CO. STD. DETAIL G-5.12
M-3	4' DIA. MANHOLE	N 540204.5987 E 1361150.5353	288.13	287.00	290.65	HO. CO. STD. DETAIL G-5.12

PIPE SCHEDULE		
PIPE LENGTH (FT)	SIZE (IN)	TYPE
80	12"	HDPE
353	15"	HDPE
271	18"	HDPE
26	15"	RCP CLASS IV

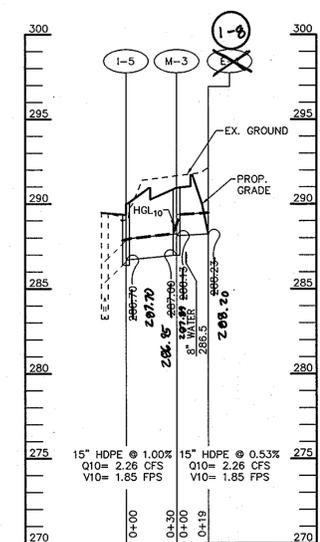
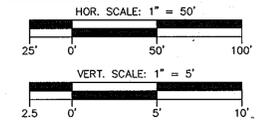
STRUCTURE SCHEDULE CONTINUED						
M-4	4' DIA. MANHOLE	N 539886.4577 E 1361302.0590	284.40	284.15	286.30	HO. CO. STD. DETAIL G-5.12
I-6	A-5 INLET	N 540026.5142 E 1361247.1171	-	283.47	287.66	HO. CO. STD. DETAIL D-4.01
I-7	A-5 INLET	N 539895.4912 E 1361295.3842	-	284.30	286.80	HO. CO. STD. DETAIL D-4.01



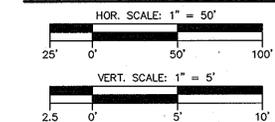
STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE



AS-BUILT

CULVERT SCHEDULE						
NUMBER	DIAMETER (IN.)	MATERIAL	LENGTH (FT.)	UPPER INVERT	LOWER INVERT	SLOPE (%)
1	12	RCP	30	295.00	294.70	1.0

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.

JAMES A. RUFF #21774
7/19/12

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. 21774, EXPIRATION DATE: 11-10-2013.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter Z. Moll
 CHIEF, BUREAU OF HIGHWAYS 1-28-08 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Carole K. Hester
 CHIEF, DIVISION OF LAND DEVELOPMENT 2/20/08 DATE

John Vermeulen
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 2/12/08 DATE

DATE NO. REVISION

OWNER: ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST
 DATED AUGUST 22, 2005
 8070 W. SAVAGE GUILFORD ROAD
 JESSUP, MD 20794
 (301) 498-0159

DEVELOPER: ALFIO & ANITA NICOTRA
 AL NICOTRA
 8070 W. SAVAGE GUILFORD ROAD
 JESSUP, MD 20794
 (301) 498-0159

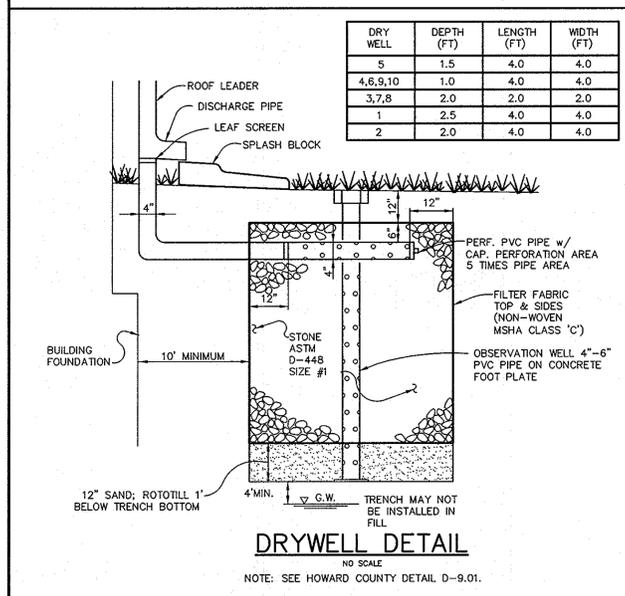
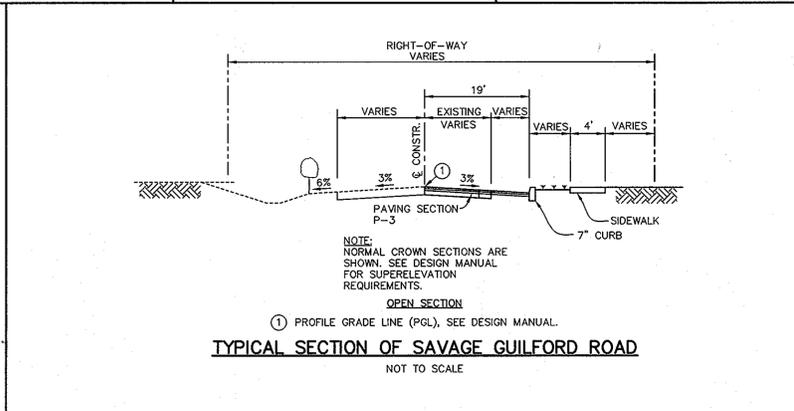
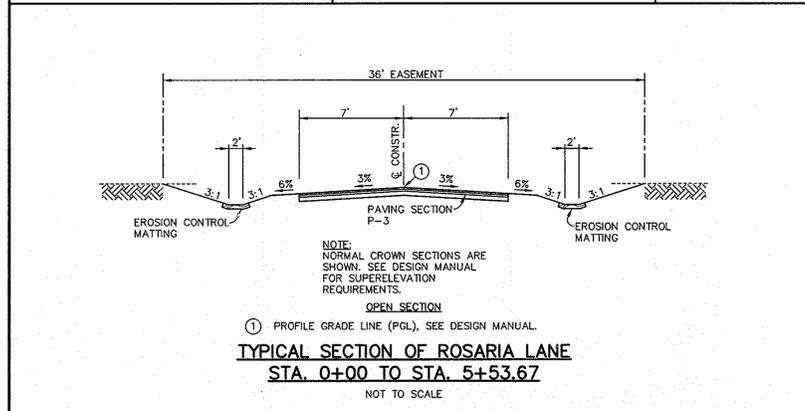
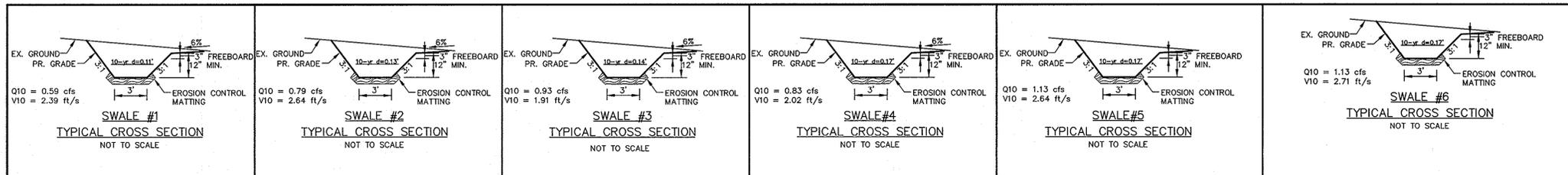
PROJECT: PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22
 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA: LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18)
 6th ELECTION DISTRICT ZONED R20
 HOWARD COUNTY, MARYLAND

TITLE: STORM SEWER PROFILES

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: PJS/JSN
 DRAWN BY: JSN
 PROJECT NO: 11511-1-1
 C701PRO
 DATE: JANUARY 17, 2008
 SCALE: 1" = 50'
 DRAWING NO. 8 OF 16



APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter Z. ... 1-28-08
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief Harris 2/29/08
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John D... 2/12/08
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION

OWNER ALFIO NICOTRA & ANITA L. NICOTRA
 TRUSTEES UNDER THE NICOTRA FAMILY TRUST
 DATED AUGUST 22, 2005
 8070 W. SAVAGE GUILFORD ROAD
 JESSUP, MD 20794
 (301) 498-0159

DEVELOPER ALFIO & ANITA NICOTRA
 AL NICOTRA
 8070 W. SAVAGE GUILFORD ROAD
 JESSUP, MD 20794
 (301) 498-0159

PROJECT **PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22**
 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA,
 P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18)
 6th ELECTION DISTRICT ZONED R20
 HOWARD COUNTY, MARYLAND

TITLE **CONSTRUCTION DETAILS**

Patton Harris Rust & Associates, pc
 Engineers. Surveyors. Planners. Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL *John D...* 01/14/08
 DESIGNED BY : PJS/JSN
 DRAWN BY: JSN
 PROJECT NO : CS00ET
 DATE : JANUARY 17, 2008
 SCALE : AS SHOWN
 DRAWING NO. 11 OF 16

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. 37260 EXPIRATION DATE: 3/31/10

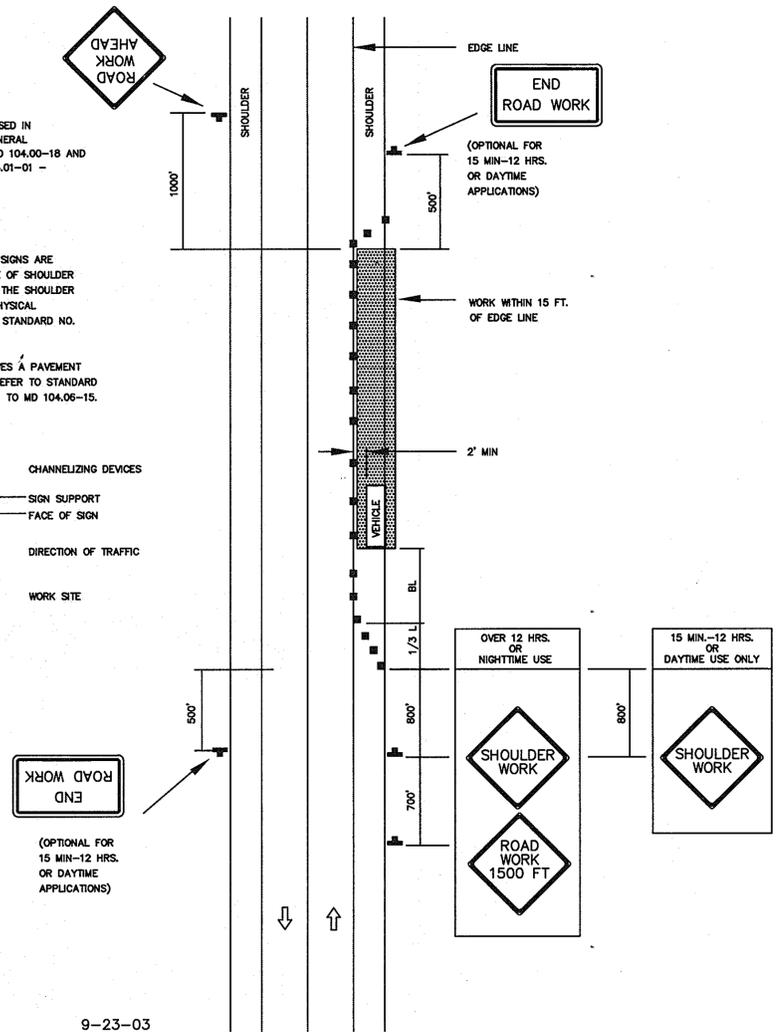
TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-62

NOTES:
SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER WORK SIGNS WHEN THE SHOULDER IS CLOSED BY A PHYSICAL BARRIER REFER TO STANDARD NO. MD 104.06-14.

WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARD NOS. MD 104.06-11 TO MD 104.06-15.

KEY:
■ CHANNELIZING DEVICES
■ SIGN SUPPORT
↑ FACE OF SIGN
↑ DIRECTION OF TRAFFIC
■ WORK SITE



8-20-03 9-23-03

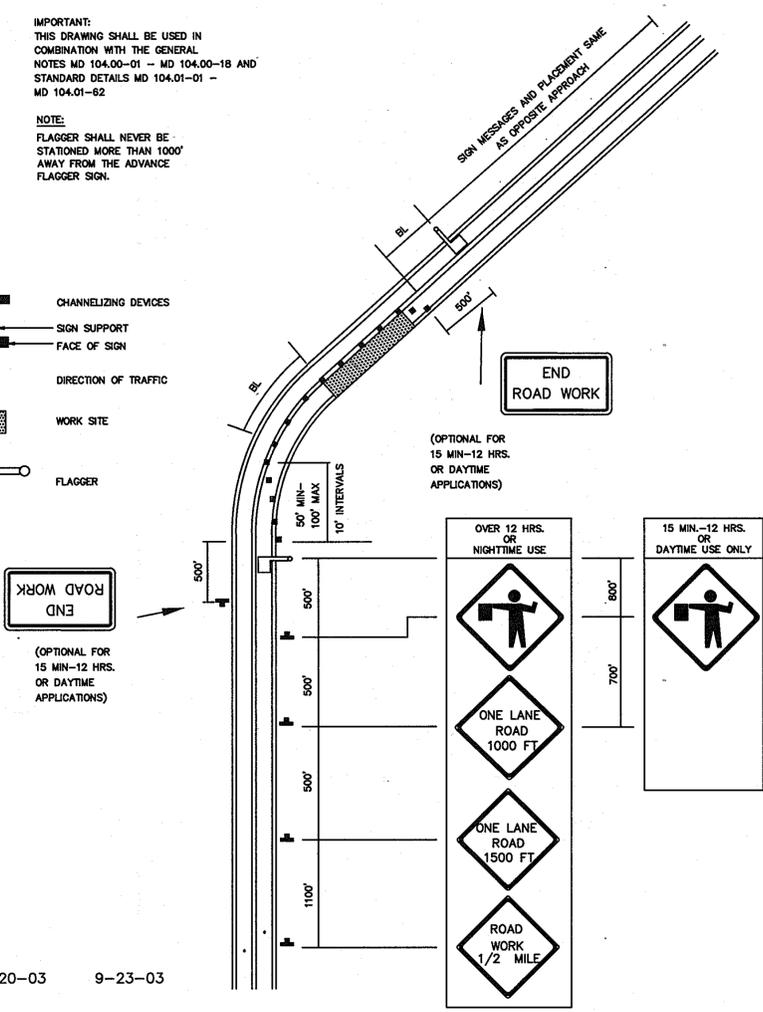
MD. 104.02-02
SHOULDER WORK, 2 LANE, 2-WAY TRAFFIC, ≤ 40MPH
NO SCALE

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

IMPORTANT:
THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 - MD 104.01-62

NOTE:
FLAGGER SHALL NEVER BE STATIONED MORE THAN 1000' AWAY FROM THE ADVANCE FLAGGER SIGN.

KEY:
■ CHANNELIZING DEVICES
■ SIGN SUPPORT
↑ FACE OF SIGN
↑ DIRECTION OF TRAFFIC
■ WORK SITE
○ FLAGGER



8-20-03 9-23-03

MD. 104.02-10
FLAGGING OPERATION, 2 LANE, 2-WAY TRAFFIC, ≤ 40MPH
NO SCALE

NOTES

1. SAVAGE GUILFORD ROAD IS AN EXISTING 2 LANE, 2-WAY ROAD. THE POSTED SPEED LIMIT FOR THE ROAD IS 30 MPH.
2. REFER TO MDSA STANDARDS MD 104.01-80 AND MD 104.01-81 FOR BUFFER LENGTHS AND TAPER LENGTHS. REFER TO MDSA STANDARD MD 104.00-10.
3. REFER TO MDSA STANDARD MD 104.00-12 FOR GENERAL NOTES FOR FLAGGING OPERATION.

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>William F. Smith</i>	1-29-07
CHIEF, BUREAU OF HIGHWAYS	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Chris Hamilton</i>	2/21/08
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>Chris Hamilton</i>	2/12/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE

DATE	NO.	REVISION

OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

DEVELOPER ALFIO & ANITA NICOTRA AL NICOTRA
8070 W. SAVAGE GUILFORD ROAD
JESSUP, MD 20794
(301) 498-0159

PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22
A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA,
P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRD 5 P 18)
6th ELECTION DISTRICT ZONED R20
HOWARD COUNTY, MARYLAND

TITLE WORK ZONE TRAFFIC CONTROL PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY : PJS/JSN
DRAWN BY: JSN
PROJECT NO : 11511-1-1 C90DMOT
DATE : JANUARY 17, 2008
SCALE : NO SCALE
DRAWING NO. 12 OF 16

SEAL
STATE OF MARYLAND
DIVISION OF PROFESSIONAL REGULATION
PROFESSIONAL ENGINEER
BY: *Chris Hamilton*
1/17/08

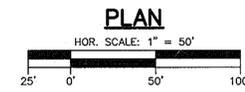
SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GRADE	SLOPE %
SIC2	SASSAFRAS LOAM	B	5 - 10
MyC3	MANOR GRAVELLY LOAM	B	8 - 15
DeB2	DELANCO SILT LOAM	B	3 - 8
WaB	WATCHUNY SILT LOAM	B	3 - 8
EnC2	ELSINBORO LOAM	B	8 - 15
EnB2	ELSINBORO LOAM	B	3 - 8
CnB2	CHILLUM-FAIRFAX LOAM	B	1 - 5
CnD3	CHILLUM-FAIRFAX LOAM	B	5 - 15
MpB2	MONTALTO SILT LOAM	C	3 - 8
KeB2	KELLY SILT LOAM	D	3 - 8

LEGEND



DRAINAGE AREA CHART			
INLET NO.	AREA (AC)	C	% IMP
I-1	0.91	0.24	18.2
I-2	0.27	0.37	22.2
I-3	0.88	0.19	15.5
I-4	0.21	0.56	52.4
FE-1	0.20	0.39	25.0
FE-2	0.26	0.40	24.1
E-1	1.33	0.24	18.7

NOTE:
 CONTRACTOR SHALL RELOCATE EXISTING
 SEWER CLEANOUTS REQUIRED BY THE
 PROPOSED ROAD WIDENING



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter R. Caldwell 1-28-07
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Cynthia Hamilton 2/2/05
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John D. ... 2/12/08
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION
1-6-08	1	REVISE GRAFT DISTANCE EASEMENT

OWNER: ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST
 DATED AUGUST 22, 2005
 8070 W. SAVAGE GUILFORD ROAD
 JESSUP, MD 20794
 (301) 498-0159

DEVELOPER: ALFIO & ANITA NICOTRA
 AL NICOTRA
 8070 W. SAVAGE GUILFORD ROAD
 JESSUP, MD 20794
 (301) 498-0159

PROJECT: **PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22**
 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA,
 P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA: LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18)
 6th ELECTION DISTRICT ZONED R20
 HOWARD COUNTY, MARYLAND

TITLE: **INLET DRAINAGE AREA MAP**

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL: 01/14/08
 DESIGNED BY: PJS/JSN
 DRAWN BY: JSN
 PROJECT NO: 11511-1-1
 IDAMAP
 DATE: JANUARY 17, 2008
 SCALE: 1" = 50'
 DRAWING NO. 13 OF 16



SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GRADE	SLOPE %
SIC2	SASSAFRAS LOAM	B	5 - 10
MyC3	MANOR GRAVELLY LOAM	B	8 - 15
DeB2	DELANCO SILT LOAM	B	3 - 8
WaB	WATCHUNY SILT LOAM	B	3 - 8
EnC2	EL SINBORO LOAM	B	8 - 15
EnB2	EL SINBORO LOAM	B	3 - 8
CnB2	CHILLUM-FAIRFAX LOAM	B	1 - 5
CnD3	CHILLUM-FAIRFAX LOAM	B	5 - 15
MpB2	MONTALTO SILT LOAM	C	3 - 8
KeB2	KELLY SILT LOAM	D	3 - 8

LEGEND

--- CULVERT DIVIDE LINE

▭ PROPOSED BUILDING

CULVERT DRAINAGE AREA CHART			
CULVERT NO.	AREA (AC.)	C	% IMP.
1	0.13	0.65	0.09

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William R. Smith 1-28-08
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cindy Harris 2/21/08
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John Dammann 2/12/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

1-6 CA 1 REVISION: SIGHT DISTANCE ENCROACHMENT

DATE NO. REVISION

OWNER ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159

DEVELOPER ALFIO & ANITA NICOTRA AL NICOTRA 8070 W. SAVAGE GUILFORD ROAD JESSUP, MD 20794 (301) 498-0159

PROJECT PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22 A RESUBDIVISION OF LOTS 13 & 14, PROPERTY OF ALFIO NICOTRA, P.N. 16324, P/O TM 47 GRID 5 PARCEL 18

AREA LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRID 5 P 18) 6th ELECTION DISTRICT ZONED R20 HOWARD COUNTY, MARYLAND

TITLE CULVERT DRAINAGE AREA MAP

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL 01/17/08

DESIGNED BY : PJS/JSN

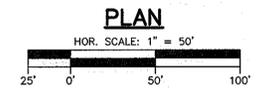
DRAWN BY: JSN

PROJECT NO : CDAMAP

DATE : JANUARY 17, 2008

SCALE : 1" = 50'

DRAWING NO. 14 OF 16



BY: *John Dammann*
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. 27292, EXPIRATION DATE: 3/31/08

BORING LOG

geolab

Table for Boring Log SWM-1. Includes client info (Mr. Alfio Nicotra), project details, and a data table with columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 2.0 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-2. Includes client info (Mr. Alfio Nicotra), project details, and a data table with columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 24.0 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-3. Includes client info (Mr. Alfio Nicotra), project details, and a data table with columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 17.5 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-4. Includes client info (Mr. Alfio Nicotra), project details, and a data table with columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 0.75 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-5. Includes client info (Mr. Alfio Nicotra), project details, and a data table with columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 24.0 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-6. Includes client info (Mr. Alfio Nicotra), project details, and a data table with columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 15.75 inches per hour.

Approval and project information section. Includes developer signature (Alfio Nicotra, 01/16/08), engineer signature (D. J. W. Cpl, 01/17/08), and project details for Alfio Nicotra Property, Lots 15-22. Includes a professional seal for the engineer.

BORING LOG

geolab

Table for Boring Log SWM-7. Includes columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 5.25 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-8. Includes columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 24.0 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-9. Includes columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 1.75 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-10. Includes columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 3.25 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-11. Includes columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 13.75 inches per hour.

BORING LOG

geolab

Table for Boring Log SWM-12. Includes columns for Elevation, Depth, Description of Materials, Sample Blows, Moisture Content, and Remarks. Infiltration rate is 22.9 inches per hour.

BY THE DEVELOPER: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL...

BY THE ENGINEER: I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE...

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. USDA NATURAL RESOURCES CONSERVATION SERVICE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

OWNER: ALFIO NICOTRA & ANITA L. NICOTRA TRUSTEES UNDER THE NICOTRA FAMILY TRUST DATED AUGUST 22, 2005. DEVELOPER: ALFIO & ANITA NICOTRA & AL NICOTRA.

PROJECT: PROPERTY OF ALFIO NICOTRA PROPERTY, LOTS 15-22. AREA: LOTS 13 & 14, PROP. OF ALFIO NICOTRA (P/O TM 47 GRD 5 P 18).

TITLE: SOIL BORING LOGS. Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects.

DESIGNED BY: PJS/JSN. DRAWN BY: JSN. PROJECT NO.: C903DET. DATE: JANUARY 17, 2008. SCALE: AS SHOWN. DRAWING NO.: 16 OF 16.

