

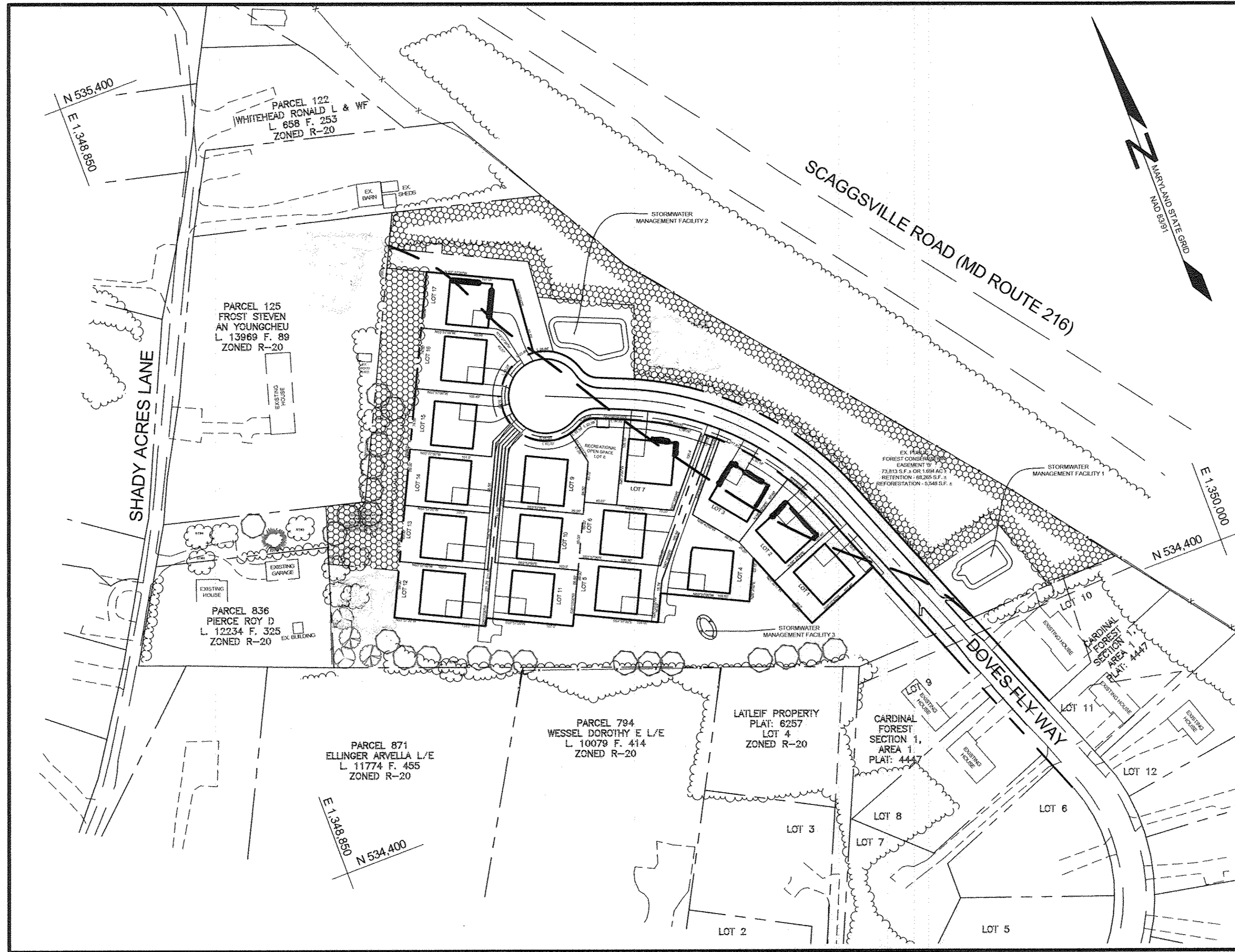
GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 IN ACCORDANCE WITH THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN. PER SECTION 108.0.G.3 THIS PROJECT WILL BE DEVELOPED UTILIZING THE R-ED REGULATIONS.
- GROSS AREA OF PROPERTY = 3.1015 AC. ± INCLUDING OPEN SPACE LOT (RECORDED UNDER F-17-008).
- REFERENCE: LIBER 17539, FOLIO 00348.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION 410.531.5533
 - BGE (CONTRACTOR SERVICES) 410.850.4620
 - BGE (UNDERGROUND DAMAGE CONTROL) 410.787.9068
 - MISS UTILITY 800.257.7777
 - COLONIAL PIPELINE COMPANY 410.796.1390
 - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900
 - HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
 - AT&T 800.252.1133
 - VERIZON 800.743.0033/410.224.2010
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
- PREVIOUS HOWARD COUNTY FILE NUMBERS: #142-W, #529-S, #850-D, ECP-14-064, WF-15-029; PB-410; 24-4874-D, SP-15-004; AA-15-002; F-17-008, CONTR. 24-4874-D.
- PUBLIC WATER AND SEWER WILL BE USED WITHIN THIS SITE.
- THIS PROPERTY IS IN THE METROPOLITAN DISTRICT.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ADCOCK & ASSOCIATES, LLC IN APRIL 2014.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY ADCOCK & ASSOCIATES, LLC IN APRIL 2014 AND UPDATED AUGUST 2016.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 48FC AND 47DB WERE USED FOR THIS PROJECT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATION OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE PROJECT IS IN CONFORMANCE WITH THE CURRENT HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- A NOISE STUDY HAS BEEN PREPARED BY MARS GROUP INC IN NOVEMBER 2013 AND APPROVED AS PART OF THE PRELIMINARY EQUIVALENT SKETCH PLAN. LOTS 1, 2, 3, 7, AND 17 FALL WITHIN THE 65 DBA THRESHOLD. AN ANALYSIS OF BUILDING MATERIALS TO BE USED TO MITIGATE HAS BEEN SUBMITTED WITH THE FINAL ROAD CONSTRUCTION PLANS. THE BUILDER SHALL BE RESPONSIBLE TO ENSURE THE REQUIRED INTERIOR NOISE MITIGATION IS PROVIDED WITH THE CONSTRUCTION OF LOTS 1, 2, 3, 7, AND 17.
- TO ENSURE THE QUALITY OF THE INDOOR NOISE LEVEL WILL NOT EXCEED 45 DBA, A NOISE REDUCTION EVALUATION AND PRE-CONSTRUCTION INDOOR TO OUTDOOR STC BUILDING ELEMENT RATING HAS BEEN COMPLETED BY MARS GROUP, JULY 2017. CONSTRUCTION SPECIFICATIONS, MATERIALS, AND RECOMMENDATIONS FOR HOUSES LOCATED WITHIN THE 65 DBA NOISE LINE HAVE BEEN PROVIDED IN THE REPORT. MARS GROUP HAS BEEN CONTRACTED TO PERFORM A POST-CONSTRUCTION SOUND INSULATION TEST REPORT TO VERIFY NOISE EMISSION LOSS BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED FOR THE LOTS IMPACTED BY THE 65 DBA LINE.
- ALL HDPE PIPE SPECIFICATIONS, AND INSTALLATION SHALL MEET AASHTO M-252 TYPE S, M-294 TYPE S AND ASTM D2321, RESPECTIVELY.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. DRIVEWAY PAVING TO BE HOWARD COUNTY STANDARD P-1 PAVING SECTION. (SEE DETAIL SHEET 2) GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST, PRIOR TO CONSTRUCTION.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING NECESSARY FEES.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS. OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
 - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE)
 - SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM)
 - GEOMETRY - MAXIMUM 10% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING)
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
 - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.03 FOR DRIVEWAY LOTS, 1, 2, 3, 7, 15, 16, AND 17. AND R-6.06 FOR LOTS 4, 5, 6, 9, 10, 11, 12, 13, AND 14.
- SEWER HOUSE CONNECTION (SHC) TO BE AT 2.0% UNLESS OTHERWISE NOTED. CLEANOUTS ARE TO BE PROVIDED AT ALL BENDS.
- THERE ARE NO WETLANDS, FLOODPLAINS, HISTORIC RESOURCES OR CEMETERIES WITHIN THE PROJECT BOUNDARY. OFF-SITE GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND CONSTRUCTION IN THESE AREAS IS PROHIBITED UNLESS APPLICABLE WAIVERS HAVE BEEN APPROVED.
- OPEN SPACE REQUIREMENTS HAVE BEEN PROVIDED UNDER F-17-008.
- PERIMETER LANDSCAPING HAS BEEN PROVIDED UNDER F-17-008.
- THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT HAS BEEN PROVIDED FOR UNDER F-17-008.
- THE STORMWATER MANAGEMENT REQUIREMENTS FOR THIS PROJECT HAVE BEEN PROVIDED FOR UNDER F-17-008 AND THE ONLOT SWM DEVICES ARE SUBJECT TO THE REQUIREMENTS AND RESTRICTION OF THE RECORDED COVENANT.
- ALL BUILDINGS SHALL HAVE AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEMS.
- FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- PER SECTION 108.0.G.2 OF THE HOWARD COUNTY ZONING REGULATIONS THIS PROJECT IS ABLE TO BE DEVELOPED AS A RECEIVING PARCEL UNDER THE NEIGHBORHOOD PRESERVATION DENSITY EXCHANGE OPTION AT A BONUS OF UP TO 10% MORE DWELLING UNITS THAN WOULD BE ACHIEVABLE BASED ON NET DENSITY IN THE R-ED DISTRICT.
 - BASE DENSITY: 8.29 ACRES X 2 = 16 LOTS
 - BONUS DENSITY: 16 LOTS X 10% = 1 LOT
 - TOTAL DENSITY: 16 LOTS + 1 LOT = 17 LOTS
 ONE DENSITY UNIT WILL BE IMPORTED FROM BELMONT MANOR.

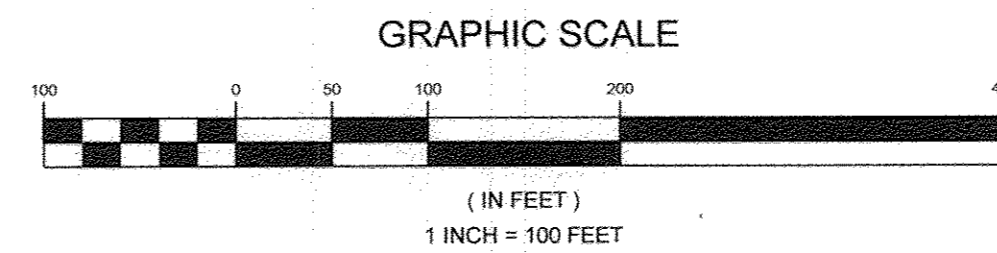
SITE DEVELOPMENT PLAN

DOVES FLY

HOWARD COUNTY, MARYLAND



LOCATION MAP
SCALE: 1"=100'



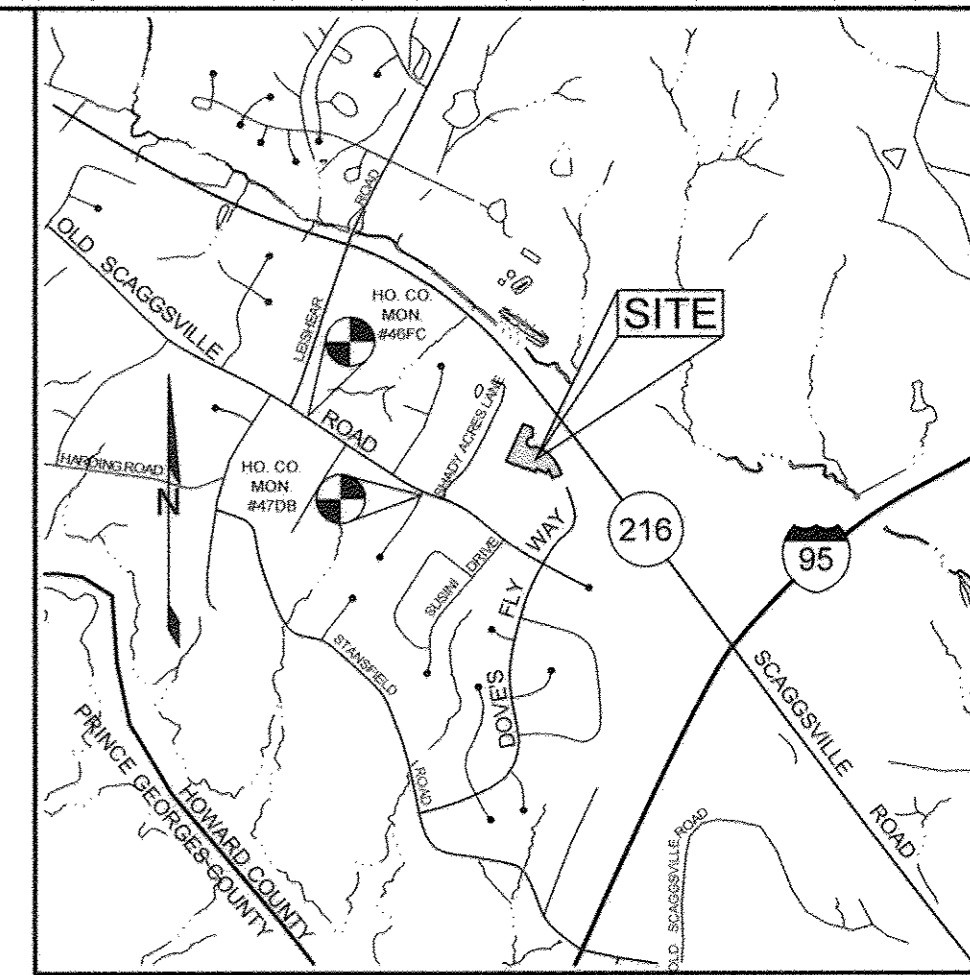
| PERMIT INFORMATION CHART | | | | | |
|--------------------------|--------------|----------|-----------|--------------|--------------|
| SUBDIVISION NAME | SECTION/AREA | PARCEL # | | | |
| DOVES FLY WAY | N/A | 126 | | | |
| PLAT | GRID # | ZONING | TAX MAP # | ELECT. DIST. | CENSUS TRACT |
| 24445-24445 | 7 | R-20 | 47 | 6TH | 608805 |

| SITE ANALYSIS DATA CHART | | | |
|--|--|-------------------------|------------------------|
| TOTAL PROJECT AREA | AREA OF SUBMISSION | DISTURBED AREA | PRESENT ZONING |
| 3.1015 AC. ± | 3.1015 AC. ± | 3.1015 AC. ± | R-20 |
| PROPOSED USE: | FLOOR SPACE PER USE | TOTAL UNITS ALLOWED | TOTAL UNITS PROPOSED |
| SFD | N/A | SEE NOTE 35 | SEE NOTE 35 |
| MAX # EMPLOYEES/TENANTS N/A | PARKING SPACES REQ 40 | PARKING SPACES PROV. 40 | HC SPACES PROVIDED N/A |
| OPEN SPACE REQUIRED APPROVED PLAN F-17-008 | OPEN SPACE PROVIDED APPROVED PLAN F-17-008 | REC. O.S. REQUIRED N/A | REC. O.S. PROVIDED N/A |
| BUILDING COVERAGE N/A | FLOOR AREA RATIO N/A | DPZ FILE REFERENCES | SEE GENERAL NOTE 8 |

| MINIMUM LOT SIZE CHART | | | |
|------------------------|-----------------|--------------------|-----------------------|
| LOT NUMBER | GROSS AREA (SF) | PIPESTEM AREA (SF) | MINIMUM LOT SIZE (SF) |
| 4 | 9,181 ± | 780 ± | 8,401 ± |
| 5 | 8,567 ± | 1,359 ± | 7,208 ± |
| 6 | 8,338 ± | 804 ± | 7,469 ± |
| 10 | 7,493 ± | 385 ± | 7,107 ± |
| 11 | 8,000 ± | 671 ± | 7,329 ± |
| 12 | 8,516 ± | 719 ± | 7,797 ± |
| 13 | 7,975 ± | 454 ± | 7,521 ± |
| 14 | 7,435 ± | 190 ± | 7,245 ± |

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- EXISTING SPECIMEN TREE
- EXISTING FENCE
- EXISTING STREET LIGHT
- FOREST CONSERVATION EASEMENT
- EXISTING PERIMETER TREES PER F-17-008
- EXISTING STREET TREE PER F-17-008
- MITIGATED 65A NOISE LINE
- UNMITIGATED 65A NOISE LINE



VICINITY MAP
SCALE: 1"=2000'

| BENCHMARKS | | | | |
|------------|-----------|-------------|-----------|---|
| NUMBER | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 46FC | 535145.93 | 1346954.79 | 403.70 | 20.5' SE OF G&E POLE #640720, 175' SE OF E OF MAC DRIVE |
| 47DB | 534316.90 | 13481131.23 | 398.49 | 3' SW OF END OF CURB ON FELLSVIEW DR., 2,603.7' SE FROM C OF LEISHEAR RD. |

| ADDRESS CHART | |
|---------------|--------------------|
| LOT NO. | ADDRESS |
| 1 | 8640 DOVES FLY WAY |
| 2 | 8636 DOVES FLY WAY |
| 3 | 8632 DOVES FLY WAY |
| 4 | 8628 DOVES FLY WAY |
| 5 | 8624 DOVES FLY WAY |
| 6 | 8620 DOVES FLY WAY |
| 7 | 8616 DOVES FLY WAY |
| 8 | OPEN SPACE |
| 9 | 8612 DOVES FLY WAY |
| 10 | 8608 DOVES FLY WAY |
| 11 | 8604 DOVES FLY WAY |
| 12 | 8598 DOVES FLY WAY |
| 13 | 8594 DOVES FLY WAY |
| 14 | 8590 DOVES FLY WAY |
| 15 | 8586 DOVES FLY WAY |
| 16 | 8582 DOVES FLY WAY |
| 17 | 8581 DOVES FLY WAY |

| STORMWATER MANAGEMENT PRACTICES | | |
|---------------------------------|--------------------|-----------------------|
| LOT # | ADDRESS | DRYWELLS (M-5) NUMBER |
| 1 | 8640 DOVES FLY WAY | 4 |
| 2 | 8636 DOVES FLY WAY | 4 |
| 3 | 8632 DOVES FLY WAY | 4 |
| 4 | 8628 DOVES FLY WAY | 4 |
| 5 | 8624 DOVES FLY WAY | 4 |
| 6 | 8620 DOVES FLY WAY | 4 |
| 7 | 8616 DOVES FLY WAY | 4 |
| 8 | 8612 DOVES FLY WAY | 4 |
| 9 | 8608 DOVES FLY WAY | 4 |
| 10 | 8604 DOVES FLY WAY | 4 |
| 11 | 8604 DOVES FLY WAY | 4 |
| 12 | 8598 DOVES FLY WAY | 4 |
| 13 | 8594 DOVES FLY WAY | 0 |
| 14 | 8590 DOVES FLY WAY | 0 |
| 15 | 8586 DOVES FLY WAY | 4 |
| 16 | 8582 DOVES FLY WAY | 4 |
| 17 | 8581 DOVES FLY WAY | 4 |

NOTE: STORMWATER FOR LOTS 12 AND 13 IS BEING TREATED IN EXISTING BIO RETENTION FACILITY 2.

| SITE ANALYSIS DATA SHEET | |
|--------------------------|--------------|
| ENVIRONMENTAL AREA | SIZE OR USE |
| TOTAL PROJECT AREA | 3.10 ACRES ± |
| LIMIT OF DISTURBANCE | 3.60 ACRES ± |
| GREEN OPEN AREA (LAWN) | 1.70 ACRES ± |
| IMPERVIOUS AREA | 1.40 ACRES ± |
| PROPOSED SITE USES | RESIDENTIAL |
| WETLANDS | 0.00 ACRES ± |
| WETLAND BUFFERS | 0.00 ACRES ± |
| FLOODPLAINS | 0.00 ACRES ± |
| FLOODPLAIN BUFFERS | 0.00 ACRES ± |
| EXISTING FOREST | 0.00 ACRES ± |
| SLOPES GREATER THAN 15% | 0.00 ACRES ± |
| HIGHLY ERODIBLE SOILS | 0.00 ACRES ± |

NOTE: (1) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

| SHEET INDEX | |
|-------------|---|
| SHEET NO. | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | LAYOUT PLAN |
| 3 | GRADING PLAN |
| 4 | SEDIMENT AND EROSION CONTROL PLAN AND DETAILS |
| 5 | SEDIMENT AND EROSION CONTROL NOTES |
| 6 | STORMWATER MANAGEMENT PLAN |
| 7 | HOUSE MODEL TEMPLATES |

OWNER/DEVELOPER
WILLIAMSBURG GROUP
5485 HARRIS FARM ROAD, SUITE 200
COLUMBIA, MARYLAND 21044
410.997.8800

COVER SHEET
DOVES FLY
LOTS 1 THRU 7 AND LOTS 9 THRU 17 AND OPEN SPACE LOT 8
SINGLE FAMILY DETACHED HOMES

TAX MAP 47 GRID 7
6TH ELECTION DISTRICT

PARCEL 126
HOWARD COUNTY, MARYLAND

DESIGN BY: PS
DRAWN BY: JCV
CHECKED BY: PS
SCALE: AS SHOWN
DATE: DECEMBER 12, 2017
PROJECT #: 14-010
SHEET #: 1 of 7

SILL ENGINEERING GROUP, LLC
11130 Dovesdale, Suite 200
Marriottsville, Maryland 21104
Phone: 410.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

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. 32025, EXPIRATION DATE: JUNE 20, 2019.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

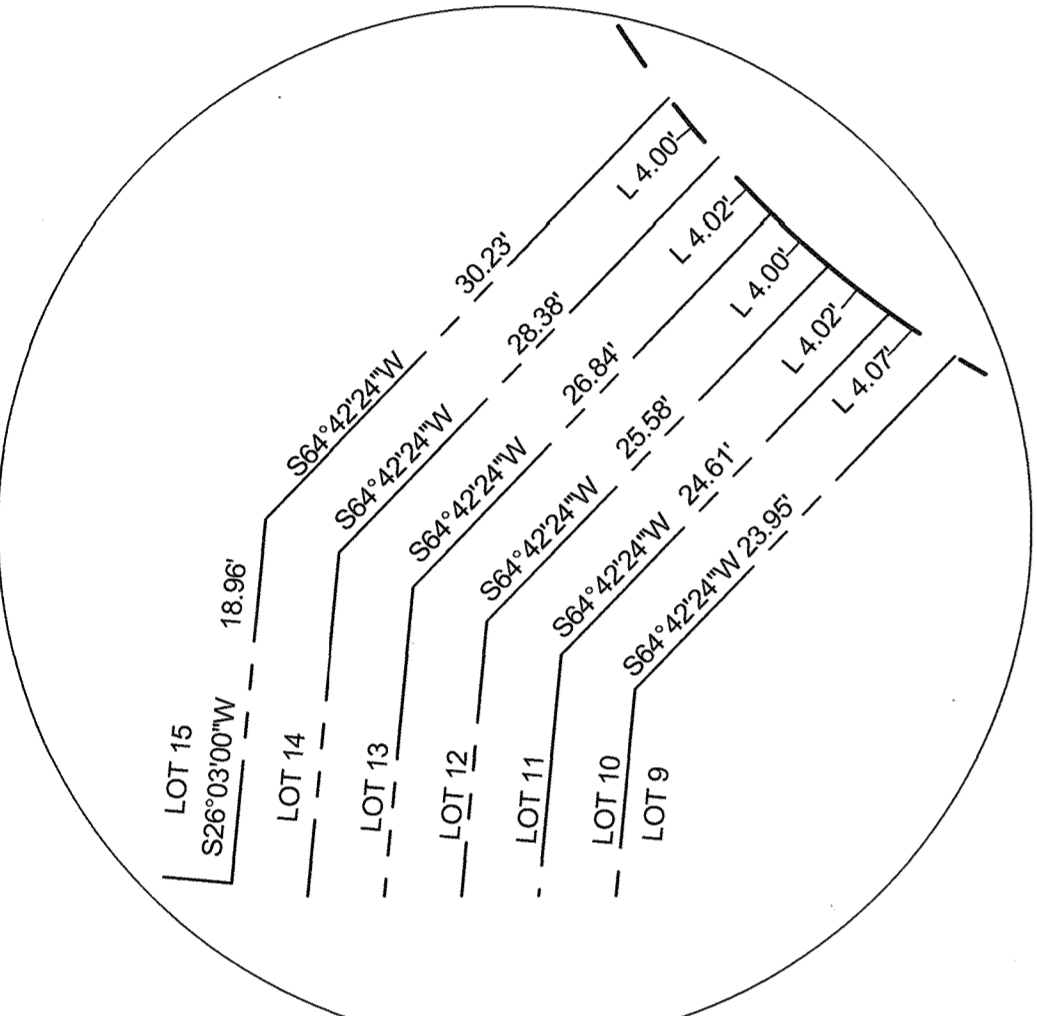
Chad Chandon
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 1-4-18

Walter J. Jovic
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 1-9-18

Walter J. Jovic
DIRECTOR
DATE: 1-9-18

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |
| | | |
| | | |

NON-BUILDABLE BULK PARCEL 'A' DOVES FLY PLAT # 24443-24445 ZONED R-20



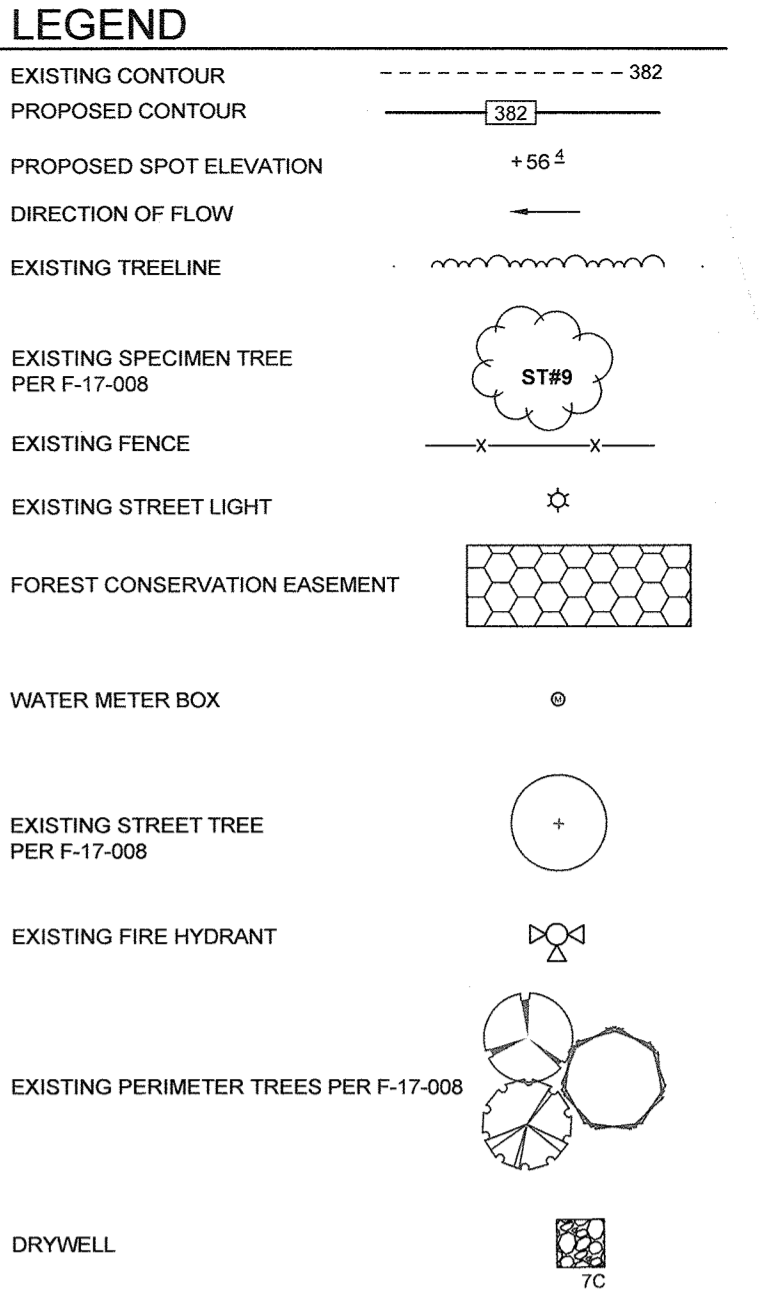
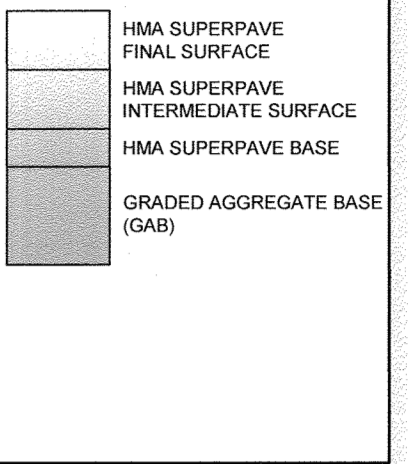
LOT LINE DETAIL
SCALE: 1"=10'

| SEWER CONNECTION CHART | | | |
|------------------------|--------------------|-------------|----------------|
| LOT NO. | ADDRESS | INVERT @ RW | INVERT @ HOUSE |
| 1 | 8640 DOVES FLY WAY | 345.97 | 346.44 |
| 2* | 8636 DOVES FLY WAY | 350.03 | 350.70 |
| 3* | 8632 DOVES FLY WAY | 354.52 | 354.90 |
| 4 | 8628 DOVES FLY WAY | 360.03 | 360.27 |
| 5 | 8624 DOVES FLY WAY | 360.38 | 360.66 |
| 6* | 8620 DOVES FLY WAY | 362.47 | 362.82 |
| 7 | 8616 DOVES FLY WAY | 357.27 | 357.66 |
| 8 | OPEN SPACE | | |
| 9 | 8612 DOVES FLY WAY | 361.92 | 362.18 |
| 10 | 8608 DOVES FLY WAY | 365.53 | 365.79 |
| 11 | 8604 DOVES FLY WAY | 368.00 | 368.39 |
| 12 | 8598 DOVES FLY WAY | 367.91 | 368.67 |
| 13 | 8594 DOVES FLY WAY | 365.52 | 365.88 |
| 14 | 8590 DOVES FLY WAY | 362.07 | 362.43 |
| 15* | 8586 DOVES FLY WAY | 359.54 | 359.96 |
| 16* | 8585 DOVES FLY WAY | 357.36 | 357.91 |
| 17* | 8581 DOVES FLY WAY | 353.27 | 354.34 |

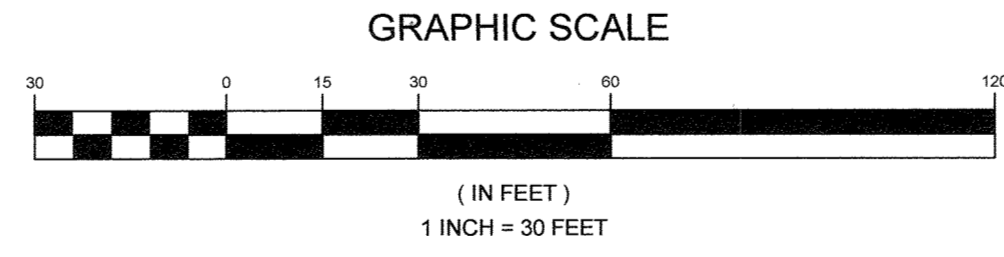
* DROP HOUSE CONNECTION

| PAVING SECTIONS | | | | | | | |
|-----------------|--|--|---------------|----------|-----|---------------|----------|
| SEC. NO. | ROAD AND STREET CLASSIFICATION | CALIFORNIA BEARING RATIO (CBR) | 3 TO 4.5 TO 7 | | | 3 TO 4.5 TO 7 | |
| | | | 3 TO 4.5 | 4.5 TO 7 | 7 | 3 TO 4.5 | 4.5 TO 7 |
| P-1 | PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVEABLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY | HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | | HMA SUPERPAVE INTERMEDIATE SURFACE (NA) | N/A | N/A | N/A | N/A | N/A |
| | | HMA SUPERPAVE BASE 19.0 MM, PG 64-22 LEVEL 1 (ESAL) | 2.0 | 2.0 | 2.0 | 3.5 | 3.0 |
| | | GRADED AGGREGATE BASE (GAB) | 8.5 | 7.0 | 5.0 | 4.0 | 4.0 |

- NOTES:
- HEAVY TRUCKS ARE DEFINED AS THOSE WITH SIX (6) WHEELS OR MORE INCLUDING GARBAGE TRUCKS.
 - HMA SUPERPAVE LAYERS SHALL BE PLACED IN APPROPRIATE COMPACTED LIFT THICKNESS: 19.0 MM BASE (2.0" MIN TO 4.0" MAX), 12.5 MM SURFACE (1.5" MIN TO 3.0" MAX), AND 9.5 MM SURFACE (1.0" MIN TO 2.0" MAX).
 - GRADED AGGREGATE BASE (GAB) TO BE PLACED AND COMPACTED IN 6" MAX COMPACTED THICKNESS LAYERS.
 - THE INTERMEDIATE SURFACE COURSE LAYER MUST BE PLACED WITHIN 2 WEEKS OF PLACEMENT OF BASE COURSE, AND IS REQUIRED PRIOR TO SUBSTANTIAL COMPLETION INSPECTION AND BOND REDUCTION.
 - IN LIEU OF PLACING THE INTERMEDIATE SURFACE COURSE LAYER FOR COMMERCIAL/INDUSTRIAL ENTRANCE APRONS WITHIN THE COUNTY RIGHT-OF-WAY WHERE AUXILIARY LANES ARE NOT REQUIRED, THE THICKNESS OF THE INTERMEDIATE SURFACE LAYER CAN BE ADDED TO THE REQUIRED THICKNESS OF THE BASE ASPHALT LAYER.
 - THE CONSTRUCTION DRAWINGS SHALL SHOW THE PAVING SECTION, ROAD CLASSIFICATION AND CRB VALUE FOR EACH ROADWAY.



PLAN VIEW
SCALE: 1"=30'



OWNER/DEVELOPER
WILLIAMSBURG GROUP
5485 HARPERS FARM ROAD, SUITE 200
COLUMBIA, MARYLAND 21044
410.997.8800

LAYOUT PLAN
DOVES FLY
LOTS 1 THRU 7 AND LOTS 9 THRU 17 AND OPEN SPACE LOT 8
SINGLE FAMILY DETACHED HOMES
TAX MAP 47 GRID 7
6TH ELECTION DISTRICT
PARCEL 126
HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 1-4-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
 [Signature] 1-9-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 [Signature] 1-9-18
 DIRECTOR DATE

| NO. | DESCRIPTION | DATE |
|-----|---|------------|
| 5 | REVISE HOUSE TYPE FOR LOT 17 | 05/08/2020 |
| 4 | REVISE HOUSE LOCATION FOR LOT 17 | 10/16/2019 |
| 3 | REVISE HOUSE TYPE FOR LOT 14 | 07/29/2019 |
| 2 | REVISE HOUSE LOCATION LOT 13 | 05/30/2019 |
| 1 | REVISE HOUSE AND DRYWELL LOCATION LOT 3 | 11/21/2018 |

SILL ENGINEERING GROUP, LLC
 11130 Dovedale, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

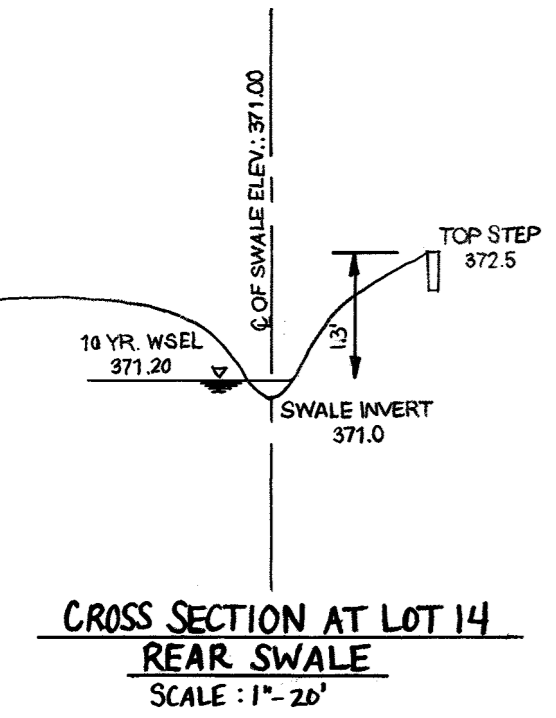
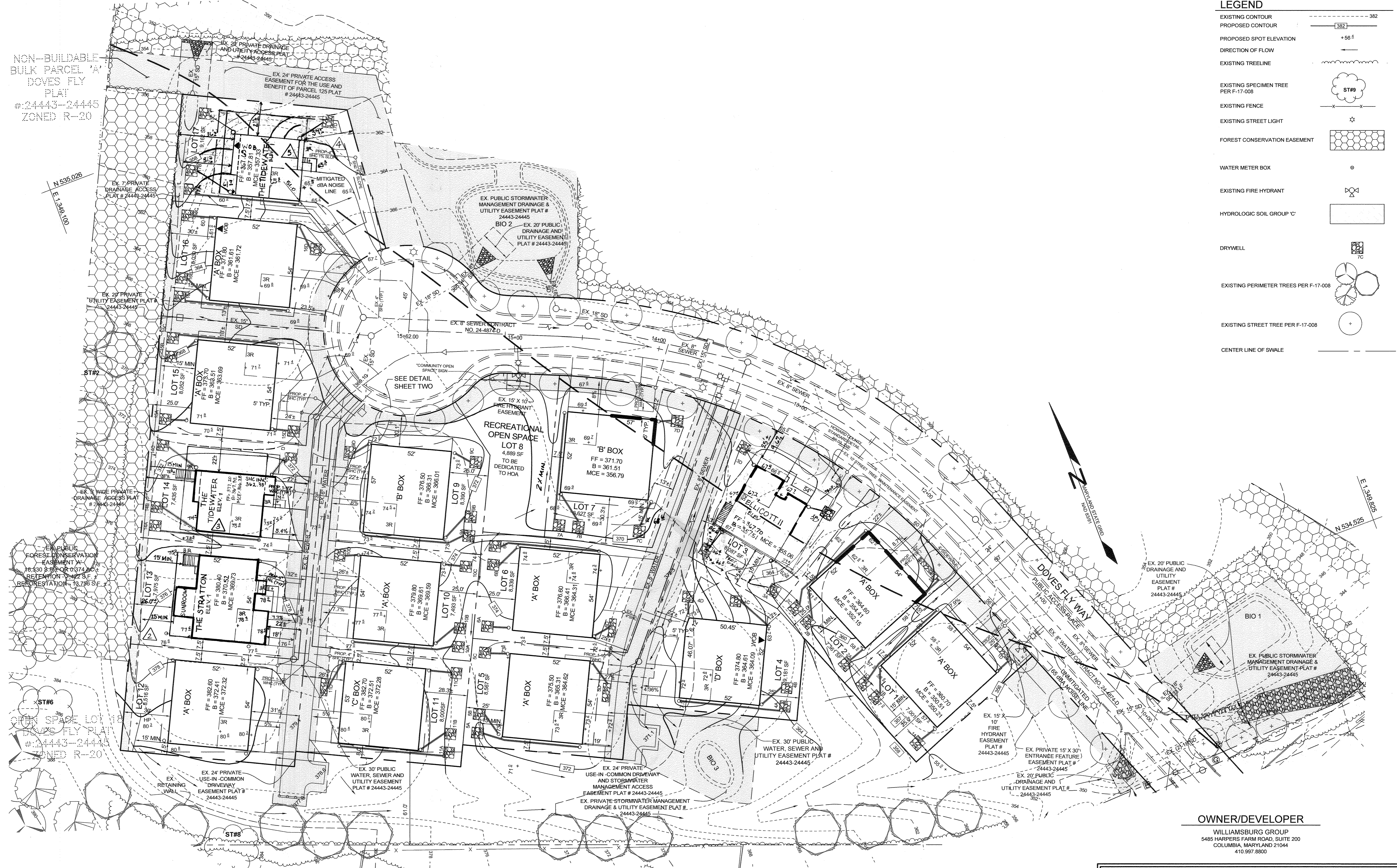
DESIGN BY: PS
 DRAWN BY: JCV
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: DECEMBER 12, 2017
 PROJECT #: 14-010
 SHEET #: 2 of 7

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. 32025, EXPIRATION DATE: JUNE 20, 2019.

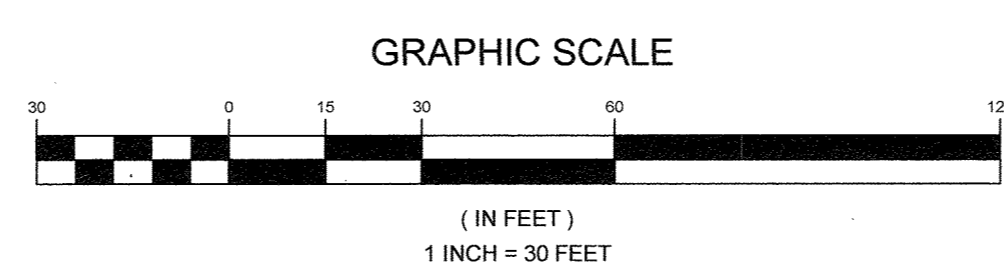
NON-BUILDABLE
BULK PARCEL 'A'
DOVES FLY
PLAT
#24443-24445
ZONED R-20

LEGEND

| | |
|---------------------------------------|-------|
| EXISTING CONTOUR | --- |
| PROPOSED CONTOUR | --- |
| PROPOSED SPOT ELEVATION | +56.1 |
| DIRECTION OF FLOW | --- |
| EXISTING TREELINE | --- |
| EXISTING SPECIMEN TREE PER F-17-008 | ST#9 |
| EXISTING FENCE | --- |
| EXISTING STREET LIGHT | * |
| FOREST CONSERVATION EASEMENT | --- |
| WATER METER BOX | o |
| EXISTING FIRE HYDRANT | o |
| HYDROLOGIC SOIL GROUP 'C' | --- |
| DRYWELL | o |
| EXISTING PERIMETER TREES PER F-17-008 | --- |
| EXISTING STREET TREE PER F-17-008 | o |
| CENTER LINE OF SWALE | --- |



PLAN VIEW
SCALE: 1"=30'



OWNER/DEVELOPER

WILLIAMSBURG GROUP
5485 HARRIS FARM ROAD, SUITE 200
COLUMBIA, MARYLAND 21044
410.997.8800

GRADING PLAN
DOVES FLY
LOTS 1 THRU 7 AND LOTS 9 THRU 17 AND OPEN SPACE LOT 8
SINGLE FAMILY DETACHED HOMES
TAX MAP 47 GRID 7
6TH ELECTION DISTRICT
PARCEL 126
HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

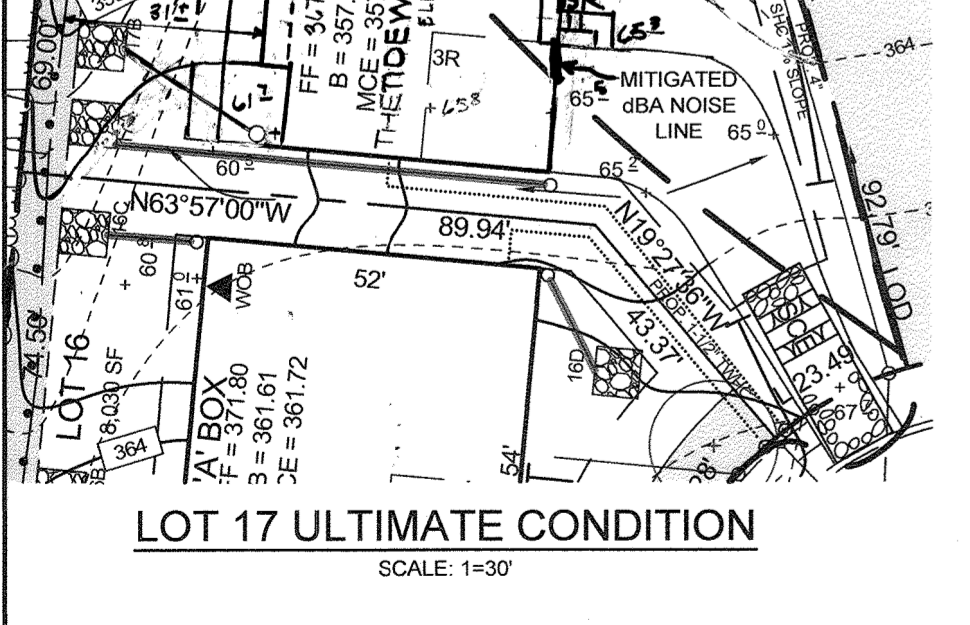
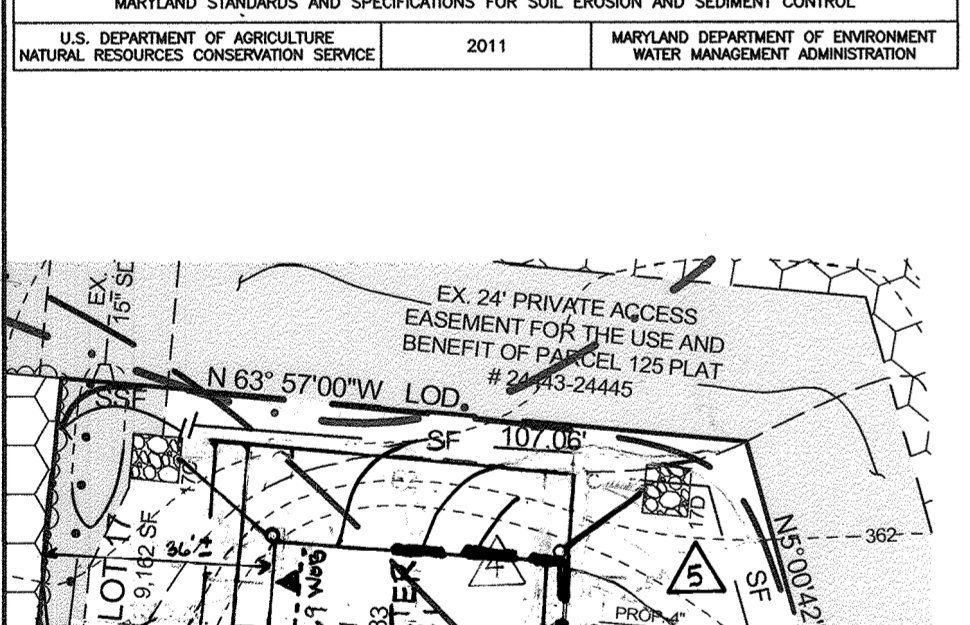
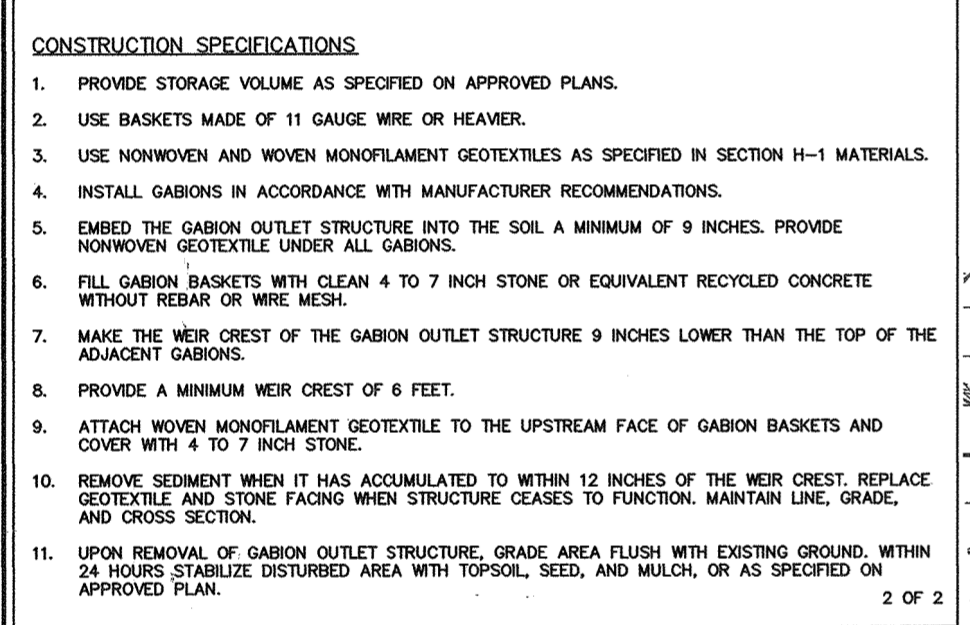
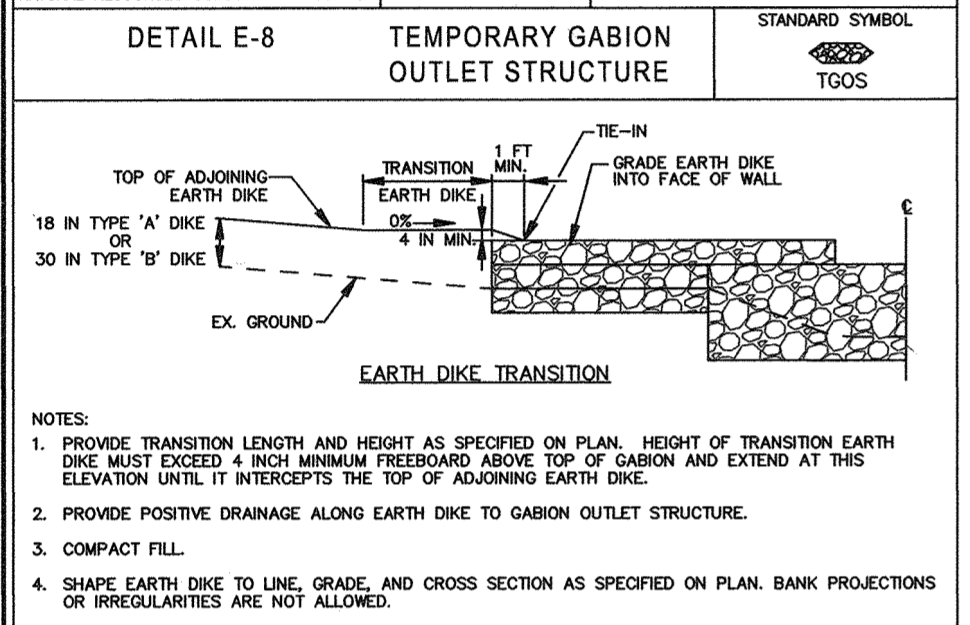
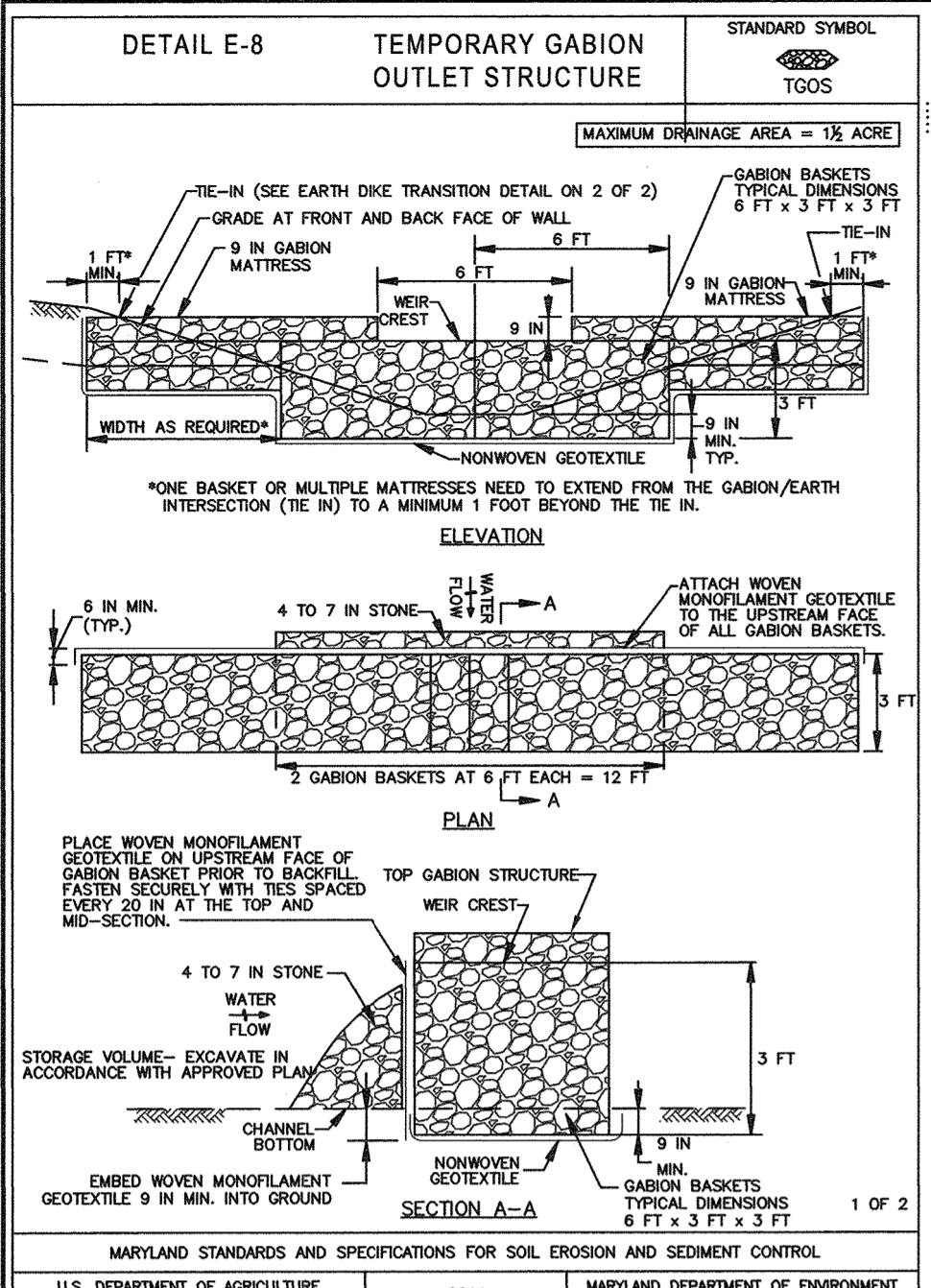
| | |
|---|--------|
| <i>Chad Coleman</i> | 1-4-18 |
| CHIEF, DEVELOPMENT ENGINEERING DIVISION | DATE |
| <i>Kevin Stalder</i> | 1-9-18 |
| CHIEF, DIVISION OF LAND DEVELOPMENT | DATE |
| <i>Walter J. J. J.</i> | 1-9-18 |
| DIRECTOR | DATE |

| NO. | DESCRIPTION | DATE |
|-----|--|------------|
| 5 | REVISE HOUSE TYPE FOR LOT 17 | 05/05/2019 |
| 4 | REVISE HOUSE LOCATION FOR LOT 17 | 10/16/2019 |
| 3 | REVISE HOUSE TYPE FOR LOT 14 | 07/27/2019 |
| 2 | REVISE HOUSE LOCATION LOT 13 | 05/30/2019 |
| 1 | REVISE HOUSE, DRYWELL SIZES & LOCATIONS LOTS 1 | 12/12/2015 |

SILL ENGINEERING GROUP, LLC
11130 Dovedale, Suite 200
Marriottsville, Maryland 21104
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: JCV
CHECKED BY: PS
SCALE: AS SHOWN
DATE: DECEMBER 12, 2017
PROJECT #: 14-010
SHEET #: 3 of 7

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 39223, EXPIRATION DATE: JUNE 20, 2019



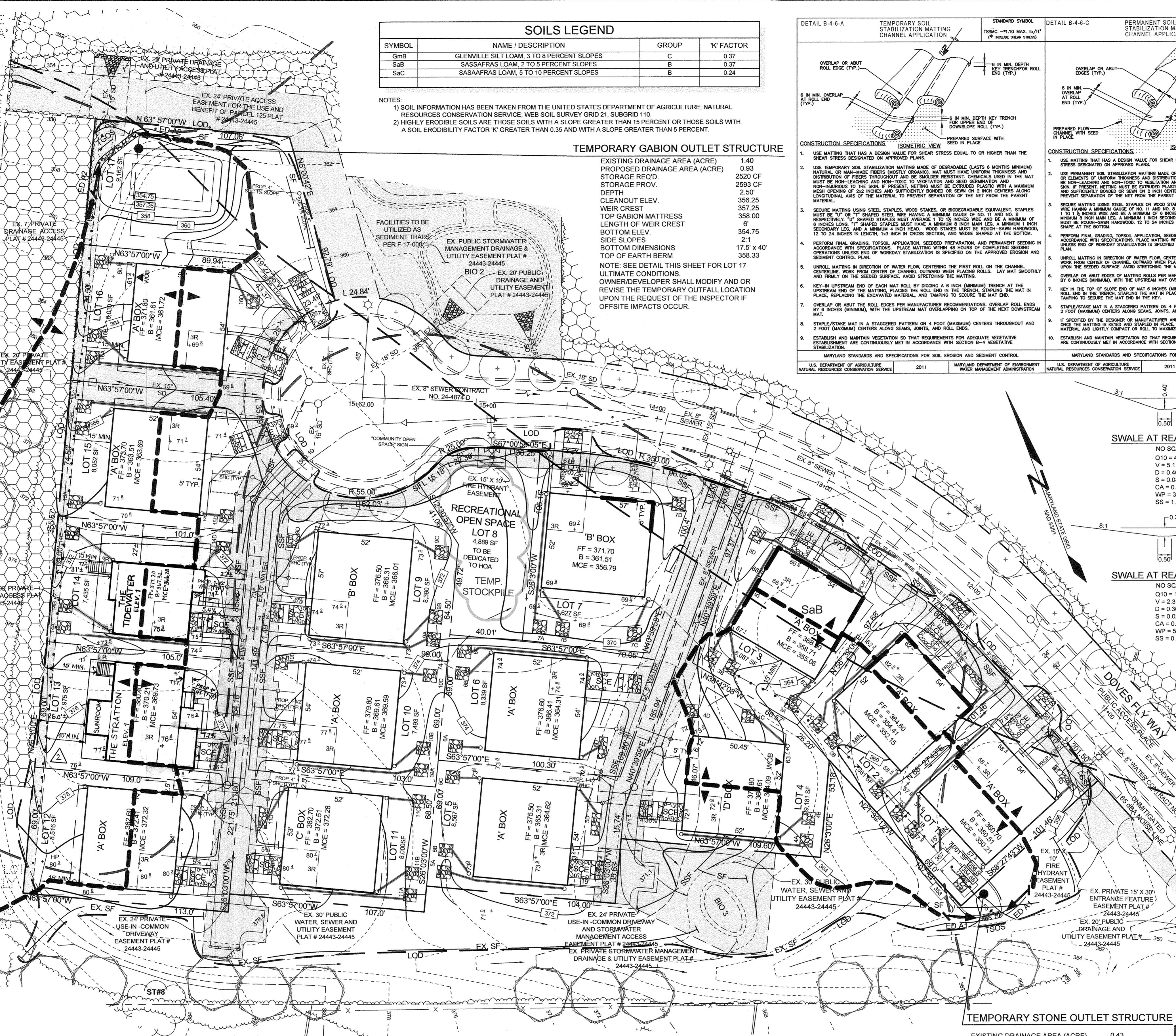
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John R. Phenton 1-4-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE

Valerie J. Jovic 1-9-18
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

Valerie J. Jovic 1-9-18
 DIRECTOR
 DATE

NON-BUILDABLE BULK PARCEL 'A' DOVES FLY PLAT # 24443-24445 ZONED R-20



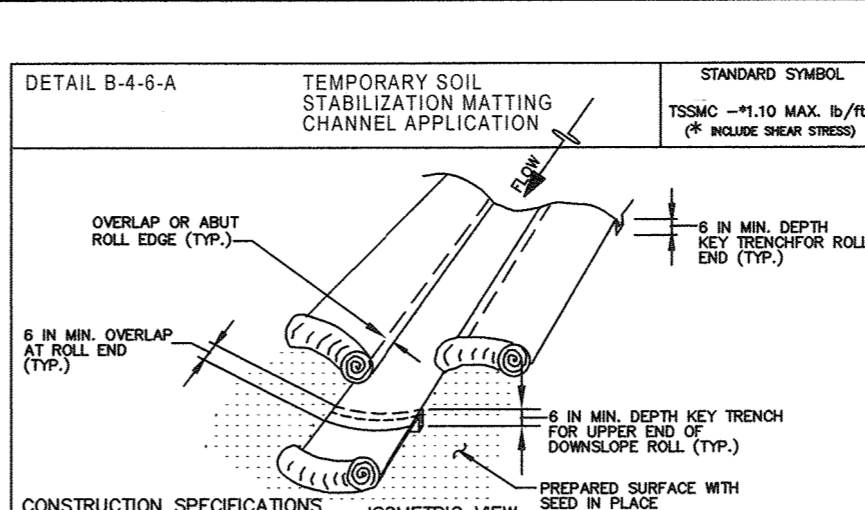
| SOILS LEGEND | | | |
|--------------|---|-------|------------|
| SYMBOL | NAME / DESCRIPTION | GROUP | 'K' FACTOR |
| GmB | GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES | C | 0.37 |
| SaB | SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES | B | 0.37 |
| SaC | SASSAFRAS LOAM, 5 TO 10 PERCENT SLOPES | B | 0.24 |

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEIR SOIL SURVEY GRID 21, SUBGRID 110
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

TEMPORARY GABION OUTLET STRUCTURE

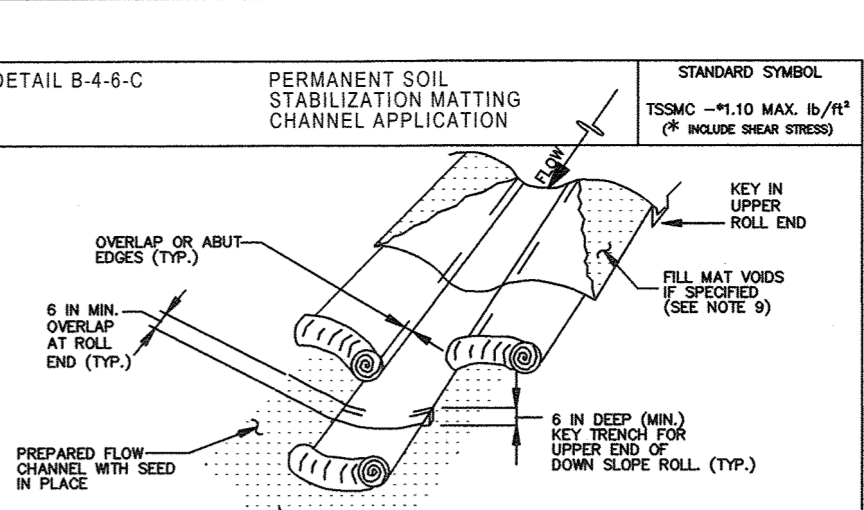
| | |
|-------------------------------|---------------|
| EXISTING DRAINAGE AREA (ACRE) | 1.40 |
| PROPOSED DRAINAGE AREA (ACRE) | 0.93 |
| STORAGE REQ'D. | 2520 CF |
| STORAGE PROV. | 2593 CF |
| DEPTH | 2.50 |
| CLEANOUT ELEV. | 356.25 |
| WEIR CREST | 357.25 |
| TOP GABION MATTRESS | 358.00 |
| LENGTH OF WEIR CREST | 6' |
| BOTTOM ELEV. | 354.75 |
| SIDE SLOPES | 2:1 |
| BOTTOM DIMENSIONS | 17' 5" x 4'0" |
| TOP OF EARTH BERM | 358.33 |

NOTE: SEE DETAIL THIS SHEET FOR LOT 17 ULTIMATE CONDITIONS. OWNER/DEVELOPER SHALL MODIFY AND OR REVISE THE TEMPORARY OUTFALL LOCATION UPON THE REQUEST OF THE INSPECTOR IF OFFSITE IMPACTS OCCUR.



CONSTRUCTION SPECIFICATIONS ISOMETRIC VIEW

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR SYNTHETIC FIBERS (NOTLY, ORGANO) MAT MUST HAVE UNIFORM THICKNESS AND MUST BE NON-LEAKING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SOIL. PRESENT MATTING MUST BE EXTENDED ALONG WITH A MAXIMUM WEIR OPENING OF 3/2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAPLES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 4 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 4 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAPLES MUST BE ROUND-SAWN HARDWOOD, 1 1/2 TO 2 INCHES IN LENGTH, 1/2 INCH IN CROSS SECTION, AND WEIR STAPLES AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH OPERATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS EVIDENCE OF WEIRWORK STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FLAT ON THE SEEDING SURFACE AND OVER THE MATTING.
- KEY-UP UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL AND TAMING TO SECURE THE MAT END.
- OVERLAP OR ABOUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MINIMUM) CENTERS THROUGHOUT AND 2 FOOT (MINIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.



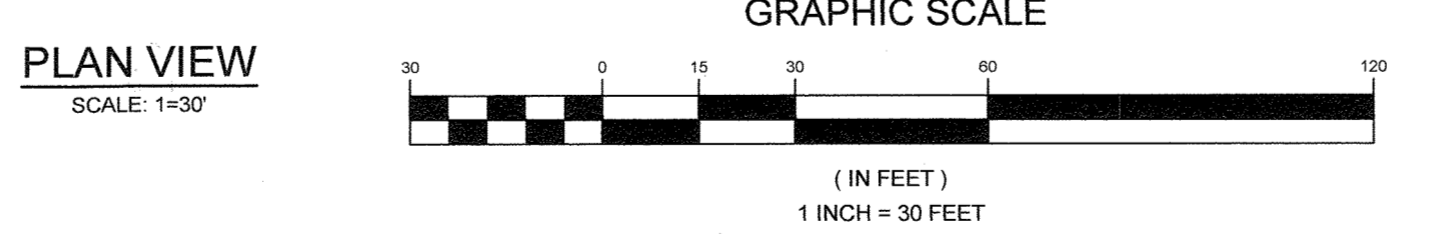
CONSTRUCTION SPECIFICATIONS ISOMETRIC VIEW

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. ORGANICALS USED IN THE MAT MUST BE NON-LEAKING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SOIL. PRESENT MATTING MUST BE EXTENDED ALONG WITH A MAXIMUM WEIR OPENING OF 3/2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
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- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH OPERATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS EVIDENCE OF WEIRWORK STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FLAT ON THE SEEDING SURFACE AND OVER THE MATTING.
- OVERLAP OR ABOUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
- KEY-UP THE TOP OF SLOPE END OF EACH MAT ROLL BY DIGGING A TRENCH PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL AND TAMING TO SECURE THE MAT END.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MINIMUM) CENTERS THROUGHOUT AND 2 FOOT (MINIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

| LEGEND | |
|--|-------------|
| EXISTING CONTOUR | --- 382 --- |
| PROPOSED CONTOUR | --- 382 --- |
| PROPOSED SPOT ELEVATION | +56 ± |
| DIRECTION OF FLOW | → |
| EXISTING TREELINE | --- |
| EXISTING SPECIMEN TREE | ST#9 |
| EXISTING FENCE | --- |
| EXISTING STREET LIGHT | --- |
| FOREST CONSERVATION EASEMENT | --- |
| HYDROLOGIC SOIL GROUP 'C' | --- |
| LIMIT OF DISTURBANCE | LOD |
| STABILIZED CONSTRUCTION ENTRANCE | --- |
| EXISTING SILT FENCE PER F-17-008 | EX SF |
| SILT FENCE | SF |
| SUPER SILT FENCE | SS |
| SOIL BOUNDARY | --- |
| SEDIMENT AND EROSION CONTROL MATTING SEE THIS SHEET FOR SHEER STRESS | --- |
| EXISTING PERIMETER TREES PER F-17-008 | --- |
| EXISTING STREET TREE PER F-17-008 | --- |
| DRYWELL | --- |
| TSOS | --- |
| TGOS | --- |
| EARTH DIKE | --- |
| PROPOSED DRAINAGE AREA LINE | --- |

SWALE AT REAR OF LOT 17
 NO SCALE
 Q10 = 4.1 CFS
 V = 5.1 FPS
 D = 0.30
 S = 0.08 FT/FT
 CA = 0.87 SF
 WP = 3.7 FT
 SS = 1.10 W/SF

SWALE AT REAR OF LOT 1
 NO SCALE
 Q10 = 1.9 CFS
 V = 2.3 FPS
 D = 0.30
 S = 0.08 FT/FT
 CA = 0.87 SF
 WP = 5.34 FT
 SS = 0.25 W/SF



TEMPORARY STONE OUTLET STRUCTURE

| | |
|-------------------------------|-----------|
| EXISTING DRAINAGE AREA (ACRE) | 0.43 |
| PROPOSED DRAINAGE AREA (ACRE) | 0.02 |
| STORAGE REQ'D. | 774 CF |
| STORAGE PROV. | 899 CF |
| DEPTH | 1.82 |
| CLEANOUT ELEV. | 356.00 |
| WEIR CREST | 356.50 |
| LENGTH OF WEIR CREST | 6' |
| BOTTOM ELEV. | 354.68 |
| SIDE SLOPES | VARY |
| BOTTOM DIMENSIONS | 10' x 20' |
| TOP OF EARTH DIKE | 357.00 |

OWNER/DEVELOPER
 WILLIAMSBURG GROUP
 5485 HARPERS FARM ROAD, SUITE 200
 COLUMBIA, MARYLAND 21044
 410.997.8800

SEDIMENT AND EROSION CONTROL PLAN AND DETAILS DOVES FLY LOTS 1 THRU 7 AND LOTS 9 THRU 17 AND OPEN SPACE LOT 8 SINGLE FAMILY DETACHED HOMES

TAX MAP 47 GRID 7 PARCEL 126
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: PS
 DRAWN BY: JCV
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: DECEMBER 12, 2017
 PROJECT #: 14-010
 SHEET #: 4 OF 7

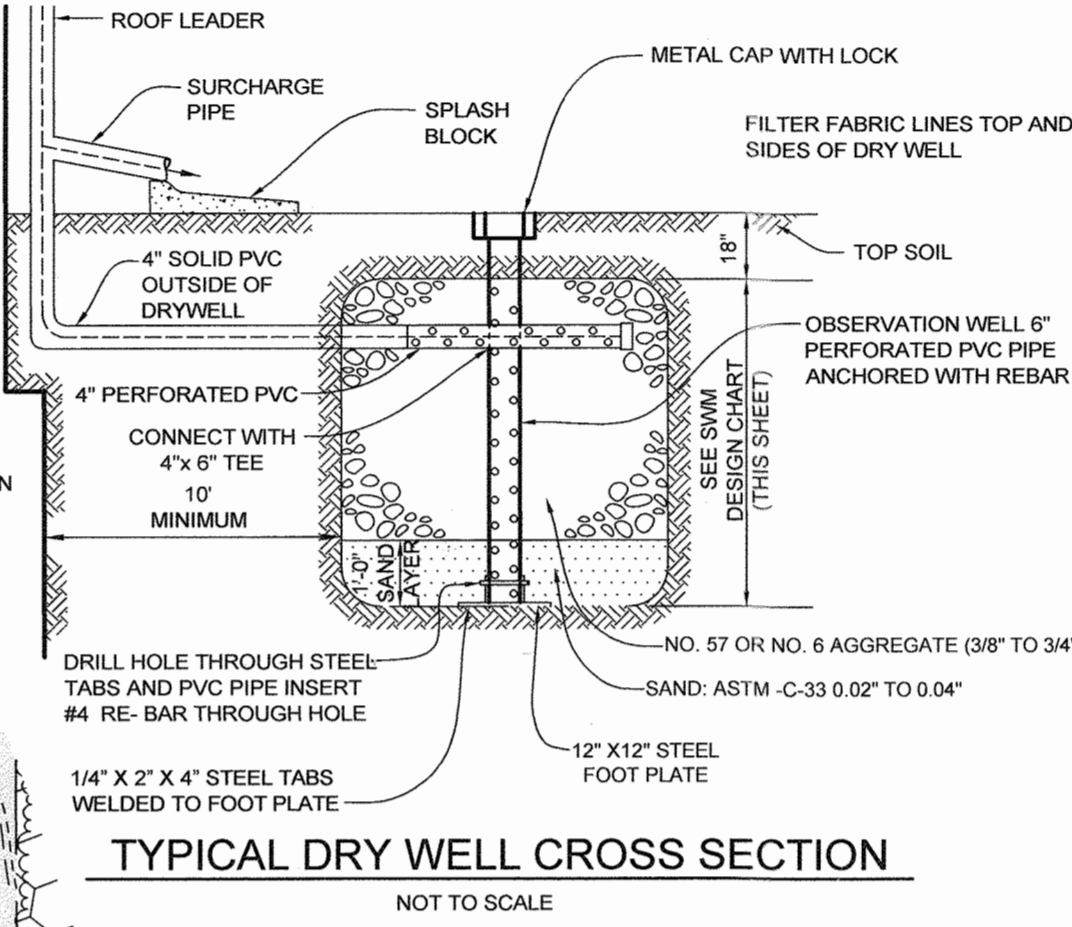
1130 Dovedale, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

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. 30025, EXPIRATION DATE: JUNE 30, 2019

| BORING TABLE | | | |
|--------------|---------------|----------------------|------------------|
| NUMBER | DEPTH TO ROCK | DEPTH TO GROUNDWATER | DEPTH TO REFUSAL |
| 1 | NO ROCK | NO GROUNDWATER | N/A |
| 2 | NO ROCK | 5.1' | N/A |
| 3 | NO ROCK | 6.0' | N/A |
| 4 | NO ROCK | 4.0' | N/A |
| 5 | NO ROCK | 4.5' | N/A |
| 6 | NO ROCK | 5.0' | N/A |
| 7 | NO ROCK | 1.0' | N/A |
| 8 | NO ROCK | 3.0' | N/A |
| 11 | NO ROCK | NO GROUNDWATER | N/A |
| 12 | NO ROCK | NO GROUNDWATER | N/A |
| 13 | NO ROCK | NO GROUNDWATER | N/A |
| 14 | NO ROCK | NO GROUNDWATER | N/A |
| 15 | NO ROCK | NO GROUNDWATER | N/A |
| 16 | NO ROCK | NO GROUNDWATER | N/A |
| 17 | NO ROCK | NO GROUNDWATER | N/A |
| 18 | NO ROCK | NO GROUNDWATER | N/A |
| 19 | NO ROCK | NO GROUNDWATER | N/A |
| 20 | NO ROCK | NO GROUNDWATER | N/A |
| 22 | NO ROCK | NO GROUNDWATER | N/A |
| 23 | NO ROCK | NO GROUNDWATER | N/A |
| 24 | NO ROCK | NO GROUNDWATER | N/A |
| 25 | NO ROCK | NO GROUNDWATER | N/A |
| 26 | NO ROCK | NO GROUNDWATER | N/A |
| 27 | NO ROCK | NO GROUNDWATER | N/A |
| 28 | NO ROCK | NO GROUNDWATER | N/A |
| 29 | NO ROCK | NO GROUNDWATER | N/A |
| 30 | NO ROCK | NO GROUNDWATER | N/A |
| 31 | NO ROCK | NO GROUNDWATER | N/A |
| 32 | NO ROCK | NO GROUNDWATER | N/A |
| 33 | NO ROCK | 13.5' | N/A |
| 34 | NO ROCK | 11.5' | N/A |
| 35 | NO ROCK | NO GROUNDWATER | N/A |
| 36 | NO ROCK | 10.0' | N/A |
| 37 | NO ROCK | 7.5' | N/A |
| 38 | NO ROCK | NO GROUNDWATER | N/A |
| 39 | NO ROCK | NO GROUNDWATER | N/A |
| 40 | NO ROCK | NO GROUNDWATER | N/A |
| 41 | NO ROCK | 11.5' | N/A |

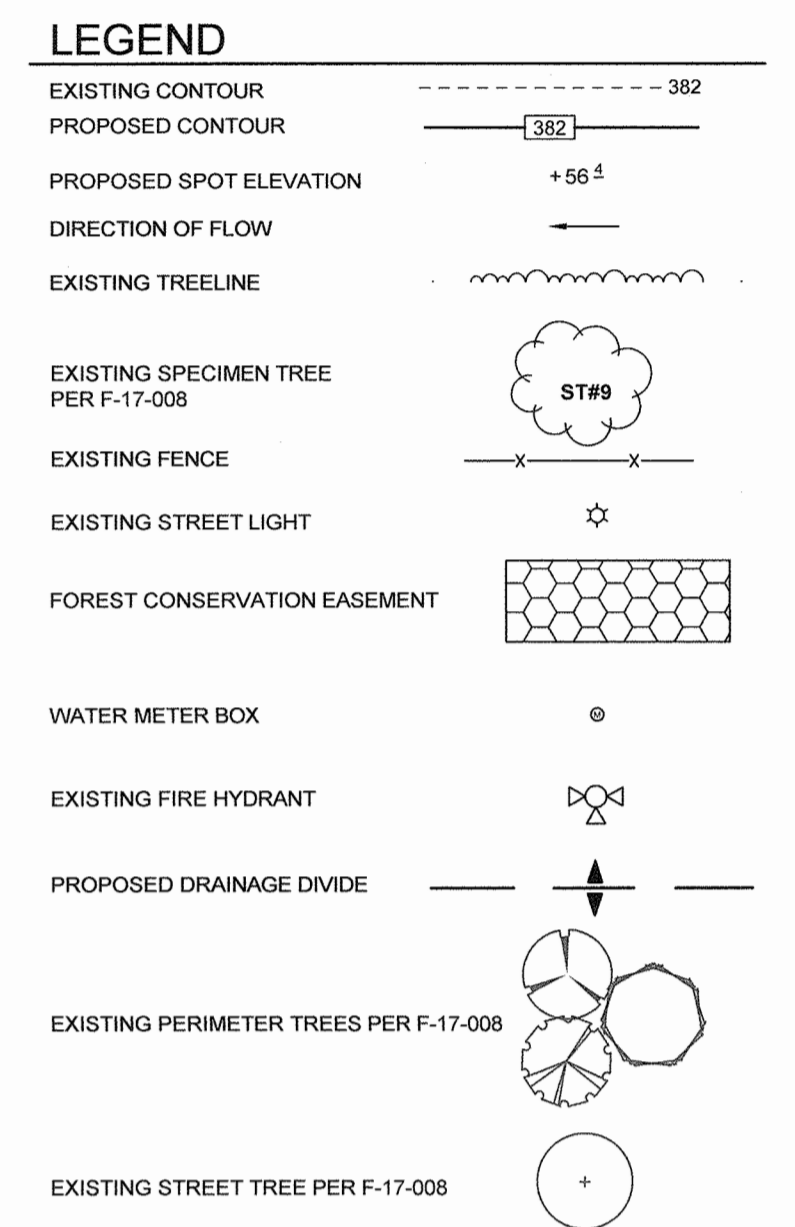
NOTE:
 1. SEE F-17-008 FOR SOIL BORING LOGS AND ASSOCIATED REPORTS.
 2. BORINGS 9, 10 AND 21 NOT INCLUDED, THEY ARE OUTSIDE OF THE LOD.

NOTE HIGH GROUND WATER AT LOTS 12 AND 13. SEE BORING RESULTS AT BORINGS 36 AND 37.

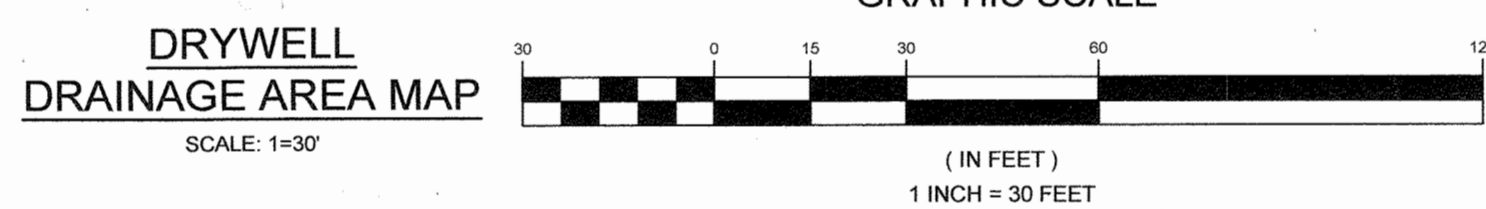


| DRY WELL CHART | | | | | | |
|----------------|-----------------|-----------------|-----------|---------------|--------|-------------------------|
| LOT NO. | VOLUME REQUIRED | VOLUME PROVIDED | NO. WELLS | DRAINAGE AREA | ESDV | SIZE WELLS |
| 1 | 401 CF | 417 CF | 3 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 2 | 401 CF | 417 CF | 3 | 0.0161 AC | 102 CF | 17.0' X 3.0' X 5' DEEP |
| 3 | 274 CF | 288 CF | 4 | 0.0111 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 4 | 388 CF | 392 CF | 4 | 0.0155 AC | 98 CF | 7.0' X 7.0' X 5' DEEP |
| 5 | 401 CF | 423 CF | 3 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 6 | 401 CF | 423 CF | 3 | 0.0161 AC | 108 CF | 4.50' X 12.0' X 5' DEEP |
| 7 | 423 CF | 452 CF | 4 | 0.0170 AC | 113 CF | 7.50' X 7.50' X 5' DEEP |
| 9 | 423 CF | 444 CF | 3 | 0.0170 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 10 | 401 CF | 420 CF | 4 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 11 | 392 CF | 393 CF | 3 | 0.0158 AC | 98 CF | 7.0' X 7.0' X 5' DEEP |
| 14 | 401 CF | 420 CF | 4 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 15 | 401 CF | 420 CF | 4 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 16 | 401 CF | 420 CF | 4 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |
| 17 | 401 CF | 420 CF | 4 | 0.0161 AC | 105 CF | 7.0' X 7.50' X 5' DEEP |

NOTE: STORMWATER FOR LOTS 12 AND 13 IS BEING TREATED IN BIO RETENTION FACILITY 2.



STORMWATER MANAGEMENT NOTES
 1. ANY PROPOSED IMPERVIOUS SURFACES THAT ARE NOT BEING TREATED IN DRYWELLS, ARE BEING TREATED IN THE EXISTING BIO RETENTION FACILITIES, PER FINAL ROAD CONSTRUCTION PLANS, F-17-008.



| SOILS LEGEND | | | |
|--------------|--|-------|------------|
| SYMBOL | NAME / DESCRIPTION | GROUP | 'K' FACTOR |
| GmB | GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES | C | 0.37 |
| SaB | SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES | B | 0.37 |
| SaC | SASSAFRAS LOAM, 5 TO 10 PERCENT SLOPES | B | 0.24 |

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY GRID 21, SUBGRID 110.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 1-4-18
 [Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 1-9-18
 [Signature]
 DIRECTOR
 DATE: 1-9-18

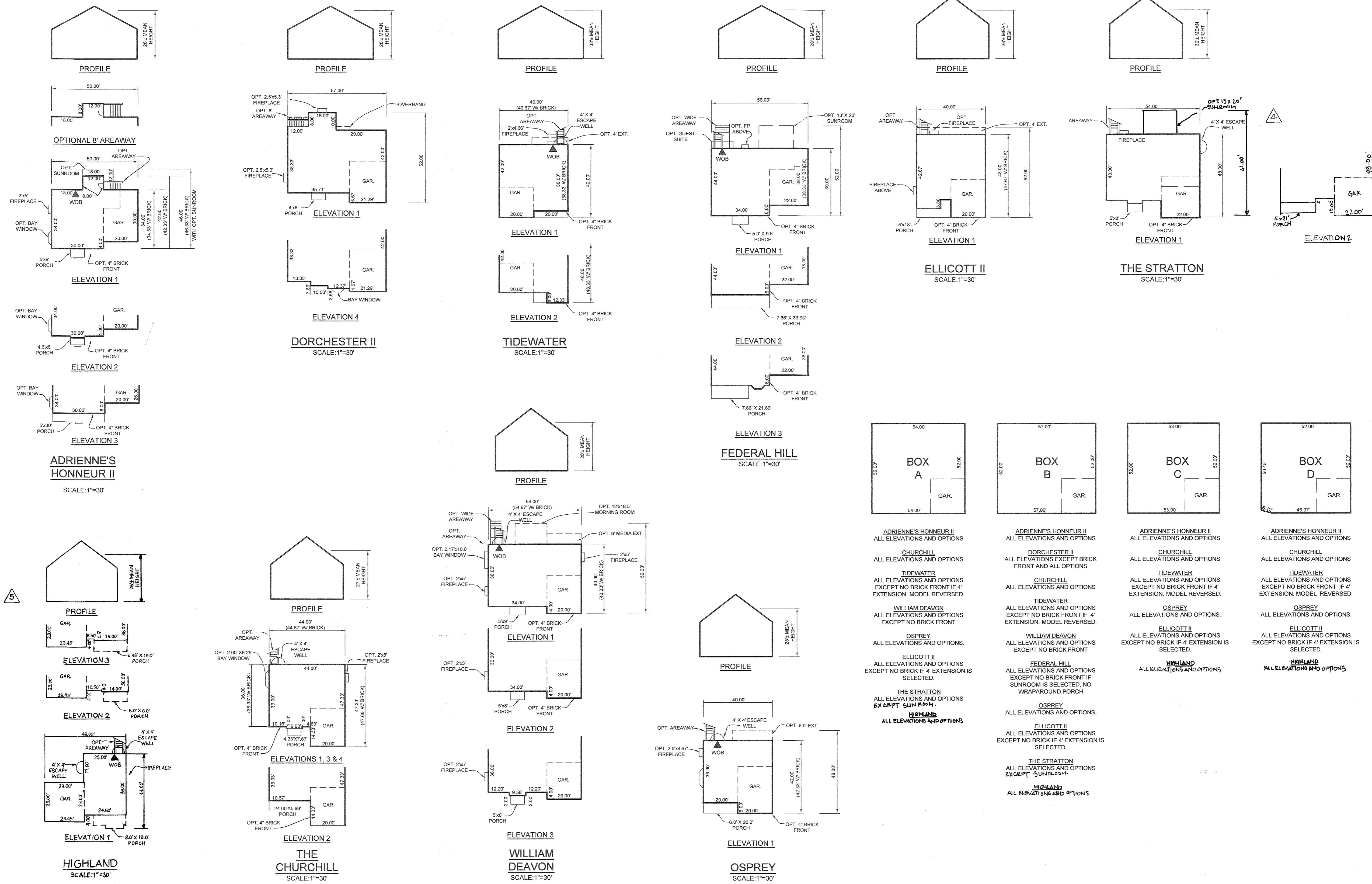
OWNER/DEVELOPER
 WILLIAMSBURG GROUP
 5485 HARPERS FARM ROAD, SUITE 200
 COLUMBIA, MARYLAND 21044
 410.997.8800

STORMWATER MANAGEMENT PLAN
 DOVES FLY
 LOTS 1 THRU 7 AND LOTS 9 THRU 17 AND OPEN SPACE LOT 8
 SINGLE FAMILY DETACHED HOMES
 TAX MAP 47 GRID 7
 6TH ELECTION DISTRICT
 PARCEL 126
 HOWARD COUNTY, MARYLAND

| NO. | DESCRIPTION | DATE |
|-----|---|------------|
| 5 | REVISE HOUSE LOCATION FOR LOT 17 | 09/05/2020 |
| 4 | REVISE HOUSE LOCATION FOR LOT 17 | 10/10/2019 |
| 3 | REVISE HOUSE TYPE FOR LOT 14 | 01/29/2019 |
| 2 | REVISE HOUSE LOCATION LOT 13 | 09/30/2019 |
| 1 | REVISE HOUSE, DRYWELL SIZE & LOCATION'S LOT 3 | 12/01/2018 |

DESIGN BY: PS
 DRAWN BY: JCV
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: DECEMBER 12, 2017
 PROJECT#: 14-010
 SHEET#: 6 of 7

SILL ENGINEERING GROUP, LLC
 11130 Dovesdale, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development



GENERIC HOUSE MODEL BOXES
SCALE: 1"=30'

OWNER/DEVELOPER

WILLIAMSBURG GROUP
5485 HARPERS FARM ROAD, SUITE 200
COLUMBIA, MARYLAND 21044
410.997.8800

HOUSE MODEL TEMPLATES

DOVES FLY

LOTS 1 THRU 7 AND LOTS 9 THRU 17 AND OPEN SPACE LOT 8
SINGLE FAMILY DETACHED HOMES

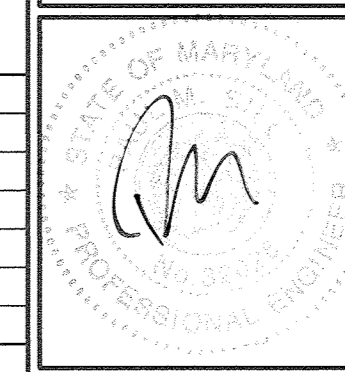
TAX MAP 47 GRID 7
6TH ELECTION DISTRICT

PARCEL 126
HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad E. ... 1-4-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION
West ... 1-9-18
CHIEF, DIVISION OF LAND DEVELOPMENT
William ... 1-9-18
DIRECTOR

| NO. | DESCRIPTION | DATE |
|-----|--|----------|
| 5 | ADD NEW HINSETTE, HIGHLAND AND UPDATE BOXES | 11/10/19 |
| 4 | ADD OPT. SUNROOM ELEVATION 2 TO THE STRATTON | 10/15/19 |
| | REVISIONS | |



SILL ENGINEERING GROUP, LLC
11130 Dovedale, Suite 200
Marriottsville, Maryland 21104
Phone: 410.325.5076
Fax: 410.696.2022
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Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: JCV
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PROJECT #: 14-010
SHEET #: 7 of 7

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. 23223, EXPIRATION DATE: JUNE 20, 2019