

# TITLE SHEET

## PRELIMINARY EQUIVALENT SKETCH PLAN

# CASCADE OVERLOOK SECTION III

## 1st. ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SHEET INDEX	
NO.	DESCRIPTION
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2	PRELIMINARY EQUIVALENT SKETCH PLAN AND ROAD PROFILE
3	GRADING AND SEDIMENT CONTROL PLAN
4	LANDSCAPE PLAN
5	STORMDRAINAGE AREA MAP AND SOILS MAP
6	EXISTING FOREST CONSERVATION PLAN

### GENERAL STORAGE REQUIREMENT SUMMARY TABLES

STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQv)	0.0420	PROVIDED WITHIN RAINGARDENS AND GRASSED SWALES
2	RECHARGE VOLUME (Rev)	0.0044 (OR 0.0534 ACRES)	PROVIDED WITHIN RAINGARDENS AND GRASSED SWALES
3	CHANNEL PROTECTION VOLUME (Cpv)	N/A	Cpv NOT REQUIRED - 1 YR POST DEVELOPMENT DISCHARGE LESS THAN 2 CFS. QUANTITY OF STORMWATER INTO EXISTING SYSTEM REDUCED
4	OVERBANK FLOOD PROTECTION VOLUME (Op)	N/A	NOT REQUIRED
5	EXTREME FLOOD VOLUME (Of)	N/A	NOT REQUIRED

STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQv)	0.1821	80% PROVIDED WITHIN THE MICRO-POOL E.D. AND 20% PROVIDED IN GRASSED SWALE #3
2	RECHARGE VOLUME (Rev)	0.0309 (OR 0.3664 ACRES)	PROVIDED WITHIN GRASSED SWALES
3	CHANNEL PROTECTION VOLUME (Cpv)	0.3197	PROVIDED IN MICRO-POOL, EXTENDED DETENTION FACILITY
4	OVERBANK FLOOD PROTECTION VOLUME (Op)	N/A	NOT REQUIRED
5	EXTREME FLOOD VOLUME (Of)	N/A	NOT REQUIRED

STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQv)	N/A	NO NEW IMPERVIOUS
2	RECHARGE VOLUME (Rev)	N/A	NO NEW IMPERVIOUS
3	CHANNEL PROTECTION VOLUME (Cpv)	N/A	Cpv NOT REQUIRED - 1 YR POST DEVELOPMENT DISCHARGE LESS THAN 2 CFS.
4	OVERBANK FLOOD PROTECTION VOLUME (Op)	N/A	NOT REQUIRED
5	EXTREME FLOOD VOLUME (Of)	N/A	NOT REQUIRED

### SWM DISCHARGE SUMMARY TABLES

STORM FREQUENCY (YR)	EXISTING RUNOFF (cfs)	DEVELOPED DISCHARGE WITHOUT FACILITY (cfs)
1	3.31	1.75
10	32.58	4.12
100	22.12	6.06

STORM FREQUENCY (YR)	EXISTING RUNOFF (cfs)	DEVELOPED DISCHARGE WITHOUT FACILITY (cfs)
1	0.93	6.19
10	7.99	23.33
100	15.13	39.64

STORM FREQUENCY (YR)	EXISTING RUNOFF (cfs)	DEVELOPED DISCHARGE WITHOUT FACILITY (cfs)
1	0.05	0.05
10	0.38	0.38
100	0.73	0.73

STORM FREQUENCY (YR)	EXISTING RUNOFF (cfs)	DEVELOPED DISCHARGE WITHOUT FACILITY (cfs)
1	0.04	N/A
10	0.19	N/A
100	0.34	N/A

NOTE: DRAINAGE AREA 4 BECOMES PART OF DRAINAGE AREA 2A UNDER THE DEVELOPED CONDITIONS

### SITE DATA TABULATION

- GENERAL SITE DATA**
    - a.) PRESENT ZONING: R-ED
    - b.) LOCATION: TAX MAP: 31, GRID 11, PARCEL 260
    - c.) APPLICABLE DPZ FILE REFERENCES: SDP-05-17, F-03-150
    - d.) PROPOSED USE OF SITE: SINGLE FAMILY DETACHED RESIDENTIAL
    - e.) PROPOSED WATER AND SEWER SYSTEMS: X PUBLIC
  - AREA TABULATION**
    - a.) TOTAL AREA OF SITE: 7.21 ± AC.
    - b.) TOTAL AREA OF PARCEL 'A': CASCADE OVERLOOK SECTION 2, 0.10 ± AC.
    - c.) APPROXIMATE AREA OF 100 YEAR FLOODPLAIN: N/A
    - d.) APPROX. AREA OF STEEP SLOPES (25% OR MORE): N/A
    - e.) NET AREA OF SITE: 7.21 ± AC.
    - f.) AREA OF THIS PLAN SUBMISSION: 7.31 ± AC.
    - g.) APPROXIMATE LIMIT OF DISTURBED AREA: 4.79 ± AC.
    - h.) AREA OF PROPOSED BUILDING LOTS: 2.93 ± AC.
    - i.) AREA OF PROPOSED NON-BUILDABLE LOT: 3.69 ± AC.
    - j.) AREA OF PROPOSED OPEN SPACE LOTS: 3.69 ± AC.
    - k.) AREA OF PROPOSED PUBLIC ROADS: 0.69 ± AC.
    - l.) AREA OF R/W DEDICATION FOR PUBLIC ROADS: 0.69 ± AC.
  - DENSITY TABULATION**
    - a.) NET AREA OF THE SITE: 7.21 AC.
    - b.) TOTAL NUMBER OF LOTS ALLOWED (2 D.U./AC.): 14
  - UNIT/LOT TABULATION**
    - a.) TOTAL NUMBER OF RESIDENTIAL UNITS/LOTS PROPOSED ON THIS SUBMISSION: 14
    - b.) TOTAL NUMBER OF OPEN SPACE LOTS PROPOSED: 3
    - c.) TOTAL NUMBER OF NON-BUILDABLE LOTS PROPOSED: N/A
  - OPEN SPACE DATA**
    - a.) MINIMUM RESIDENTIAL LOT SIZE SELECTED: 6,000 S.F.
    - b.) OPEN SPACE REQUIRED FOR TOTAL AREA OF SITE: 3.81 ± AC. (50% OF 7.21 ± AC.)
    - c.) TOTAL AREA OF OPEN SPACE PROVIDED ON THIS SUBMISSION: 3.69 ± AC. (51%)
      - 1.) OPEN SPACE AREAS LESS THAN 35' IN WIDTH (NON-CREDITED): N/A
      - 2.) TOTAL AREA OF OPEN SPACE MEETING MINIMUM OPEN SPACE REQUIREMENTS (CREDITED): 3.69 ± AC.
    - d.) RECREATIONAL OPEN SPACE REQUIRED: 4.2005 S.F. OR 0.10 ± AC. (300 S.F./UNIT)
      - 1.) TOTAL AREA OF RECREATIONAL OPEN SPACE PROVIDED: 6.216 S.F. OR 0.13 ± AC.
      - a.) PASSIVE RECREATION AREA: 0.0 S.F.
- \* PARCEL 'A' PREVIOUSLY RECORDED UNDER CASCADE OVERLOOK SECTION 2, PLAT NO. 16644 HAS OPEN SPACE AND FOREST CONSERVATION PROVIDED UNDER CASCADE OVERLOOK SECTION 2.

ROAD	STATION	RADIUS	LENGTH	TANGENT	DELTA	CHORD
MARCH BROWN ROAD	0+54.04 TO 0+93.02	40.00'	38.98'	21.20'	55°50'29"	N5°40'17"E 37.48'
MARCH BROWN ROAD	4+00.67 TO 4+85.73	50.00'	85.06'	56.98'	97°28'07"	N54°40'34"E 75.17'
MARCH BROWN ROAD	6+31.06 TO 6+98.02	101.62'	66.96'	34.75'	37°45'21"	N54°40'34"E 65.78'

LOT NO.	GROSS AREA	PIPESTEM AREA	MIN. LOT SIZE
5	10,048 S.F.	1,429 S.F.	8,619 S.F.
6	11,256 S.F.	1,792 S.F.	9,464 S.F.
7	11,089 S.F.	1,888 S.F.	9,201 S.F.
8	8,889 S.F.	1,519 S.F.	7,370 S.F.
9	7,963 S.F.	1,153 S.F.	6,810 S.F.
13	9,911 S.F.	1,803 S.F.	8,108 S.F.

### LOCATION PLAN

SCALE: 1" = 100'

NO.	NORTHING	EASTING
1	N573000.6270	E1378198.2434
2	N573052.3222	E1378848.7314
3	N572266.9841	E1378930.7478
4	N572186.4149	E1378584.4396
5	N572701.6981	E1378530.4883
6	N572742.1834	E1378504.9445
7	N572704.9216	E1378445.8870
8	N572706.6833	E1378420.9291
9	N572772.3883	E1378379.4732
10	N572835.1664	E1378348.4316
11	N572836.9617	E1378209.8070
12	N572871.6135	E1378126.8289
13	N572719.8067	E1378649.0010
14	N572721.9994	E1378678.1626
15	N572737.9273	E1378714.4085
16	N572753.1208	E1378707.1096
17	N572795.8008	E1378768.4153

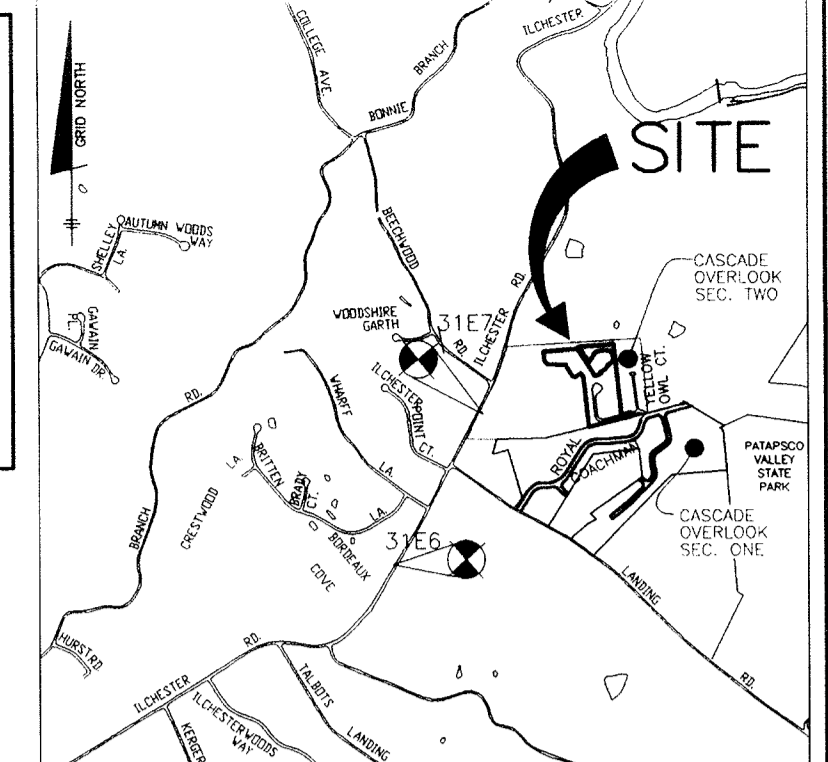
NO.	NORTHING	EASTING
18	N572815.1879	E1378776.9669
19	N572844.8580	E1378803.9860
20	N572866.0128	E1378833.0469
21	N572965.5522	E1378822.5947
22	N572966.3392	E1378798.6880
23	N572965.7045	E1378775.1643
24	N572963.8890	E1378750.1255
25	N572978.8075	E1378711.3202
26	N572974.5957	E1378691.0870
27	N572971.9715	E1378683.2710
28	N572964.0996	E1378666.1597
29	N572954.0063	E1378653.3280
30	N572940.5452	E1378641.1298
31	N572905.4691	E1378621.3909
32	N572896.2616	E1378613.1102
33	N572885.4179	E1378606.4478
34	N572881.2467	E1378604.1915
35	N572859.7301	E1378584.4767

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*Debra Lafferty* *JA*  
PLANNING DIRECTOR

8/11/06  
DATE

HO. CO. #31E6	
3/4" REBAR 0.5' BELOW SURFACE	
5' SOUTHWEST OF ILCHESTER ROAD PAVING	
500' ± WEST OF WHARF LANE.	
N 570852.3717' E 1376700.6467'	
HO. CO. #31E7	
3/4" REBAR 0.5' BELOW SURFACE	
9' SOUTHWEST OF ILCHESTER ROAD PAVING	
290' ± WEST OF BEECHWOOD ROAD	
N 572335.3503' E 1377504.0332'	
HO. CO. BM#2745004	ELEV. 364.78'
USED FOR VERTICAL CONTROL.	



### GENERAL NOTES

- ALL ASPECTS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- PROJECT BACKGROUND:
  - LOCATION: TAX MAP 31, GRID 11, P.O. PARCEL 260
  - ZONING: R-ED
  - TOTAL TRACT AREA: 7.21 AC.
  - NUMBER OF PROPOSED LOTS: 14 SFD, 4 OPEN SPACES
  - APPLICABLE DPZ FILE NUMBERS: SDP-05-17, F-03-150
- PUBLIC WATER AND SEWER SYSTEMS SHALL BE PROVIDED FOR THIS DEVELOPMENT.
- TRACT BOUNDARY BASED ON A PROPOSED BULK PARCEL SUBDIVISION PLAN FOR PARCEL 260, 2000, CONTOURS SHOWN ARE AT A 2' INTERVAL.
- TOPOGRAPHY FROM FIELD SURVEY PERFORMED BY CENTURY ENGINEERING ON OR ABOUT MARCH, 2000, CONTOURS SHOWN ARE AT A 2' INTERVAL.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE NOS. 31E6 AND 31E7 WERE USED FOR THIS PROJECT.
- WETLAND DELINEATION PROVIDED BY ECO-SCIENCE PROFESSIONALS, DATED JULY 2004.
- FOREST STAND DELINEATION PROVIDED BY ECO-SCIENCE PROFESSIONALS, INC., DATED JULY 2004.
- A NOISE STUDY IS NOT REQUIRED FOR THIS SITE.
- ALL LANDSCAPING REQUIREMENTS AS SET FORTH IN THE LANDSCAPE MANUAL SHALL BE COMPLIED WITH.
- NO DISTURBANCE SHALL OCCUR IN THE WETLANDS, 25' WETLAND BUFFER, 75' STREAM BUFFER, OR 100-YEAR FLOODPLAIN. ALL STATE AND FEDERAL PERMITS SHALL BE OBTAINED PRIOR TO CONSTRUCTION.
- MINIMUM BUILDABLE LOT SIZE SHALL BE 6,000 SQUARE FEET, FOR SINGLE FAMILY DETACHED DWELLINGS.
- THIS PROPERTY IS INCLUDED IN THE METROPOLITAN DISTRICT.
- STORMWATER MANAGEMENT SHALL BE PROVIDED BY MICRO-POOL, EXTENDED DETENTION, GRASSED SWALES AND RAINGARDENS. ALL FACILITIES TO BE CLASS 'A' STRUCTURES. STORMWATER MANAGEMENT FACILITY SHALL BE OWNED BY THE HOMEOWNERS ASSOCIATION AND JOINTLY MAINTAINED BY THE HOMEOWNERS ASSOCIATION AND HOWARD COUNTY.
- TO THE BEST OF THE OWNER'S KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON SITE.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR THIS PROJECT.
- STREET LIGHTS SHALL BE PROVIDED PER DESIGN MANUAL REQUIREMENTS.
- RECREATIONAL OPEN SPACE REQUIREMENTS WILL BE MET BY THE CREATION OF A RECREATIONAL OPEN SPACE AREA WITHIN LOT 15 ALONG THE LOT LINES SHARED WITH LOTS 10 AND 13.
- FOREST CONSERVATION HAS BEEN SATISFIED AS SHOWN ON RECORDED PLATS 17426 AND 17427 BY ON-SITE RETENTION AND REFORESTATION AS INDICATED ON EXISTING FOREST CONSERVATION PLAN.
- A WAIVER REQUEST FOR MODIFIED TYPICAL ROAD DESIGN HAS BEEN APPROVED FEBRUARY 22, 2005.
- A WAIVER REQUEST TO SECTION 55.40 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME 1 STORMWATER MANAGEMENT HAS BEEN APPROVED AUGUST 12, 2005 AND IS IN REFERENCE TO THE 25' BUFFER AROUND SWM FACILITIES SERVING OLPH.
- A WAIVER PETITION APPLICATION (WP-06-07) TO SECTION 16.1200(k)(4) HAS BEEN APPROVED NOVEMBER 15, 2005. A CONDITION OF WAIVING SECTION 16.121(e) REQUIRING FRONTAGE FOR PARCEL 'B' (OLPH SWM) IS THAT OUR LADY OF PERPETUAL HELP CHURCH SHALL BE A PARTY IN THE SHARED ACCESS EASEMENT AND MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAY FOR LOTS 5-9 AND THE CHURCH'S SWM FACILITY, AND SHALL ONLY USE THE SHARED DRIVE TO ACCESS THE SWM FACILITY FOR MAINTENANCE OR REPAIR.
- AN APFO TRAFFIC ANALYSIS IS NOT REQUIRED FOR THIS PROJECT. THIS PROJECT IS LOCATED MORE THAN 1/2 MILES FROM THE NEAREST INTERSECTION OF TWO MAJOR COLLECTOR ROADWAYS.
- THE GEOTECHNICAL ANALYSIS FOR THIS SITE WAS PERFORMED BY HILLS-CARNES AND ASSOCIATES, DATED OCTOBER, 2004 AND APRIL 2005.
- THE CONSTRUCTION OF THE EXTENSION OF MARCH BROWN ROAD SHALL BE PERFORMED WHILE MAINTAINING UNINTERRUPTED ACCESS TO THE PROPERTIES BEYOND CASCADE OVERLOOK BY WAY OF THE EXISTING DRIVEWAY RECORDED UNDER L30 156.
- THIS PLAN CONFORMS TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION REGULATIONS EFFECTIVE APRIL 13, 2004. DEVELOPMENT OR CONSTRUCTION ON THIS PARCEL MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN WAIVER PETITION APPLICATION, OR BUILDING PERMIT.
- THE DECISION AND ORDER FOR PB 372 (SP-05-17) WAS SIGNED MAY 25, 2006 FOR 14 RESIDENTIAL LOTS IN AN R-ED DISTRICT.
- THE PURPOSE OF OPEN SPACE LOTS 16 IS TO PRESERVE THE FOREST CONSERVATION AREAS. LOT 16 IS DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS.
- THE PURPOSE OF OPEN SPACE LOT 15 IS FOR STORMWATER MANAGEMENT AND THE PORTION OF THE LOT NOT CONTAINING ANY STORMWATER MANAGEMENT FACILITIES IS A RECREATIONAL OPEN SPACE. LOT 15 IS PRIVATELY OWNED AND OPERATED BY THE HOME OWNERS ASSOCIATION.
- THE PURPOSE OF LOT 17 IS FOR STORMWATER MANAGEMENT AND ACCESS TO THE EXISTING STORMWATER MANAGEMENT FACILITY SERVING OUR LADY OF PERPETUAL HELP CREATED UNDER SDP-05-17. LOT 17 IS PRIVATELY OWNED AND OPERATED BY THE HOME OWNERS ASSOCIATION.
- BOARD OF APPEALS REFERENCES: BA CASE R3-396, BA CASE R6-246, BA CASE 01-51C. THE CONDITIONS OF BA CASE 01-51C INDICATE THAT THE CONDITIONAL USE APPLIES ONLY TO THE PROPOSED MULTI-PURPOSE BUILDING AND SITE IMPROVEMENTS.

NO.	DATE	REVISION

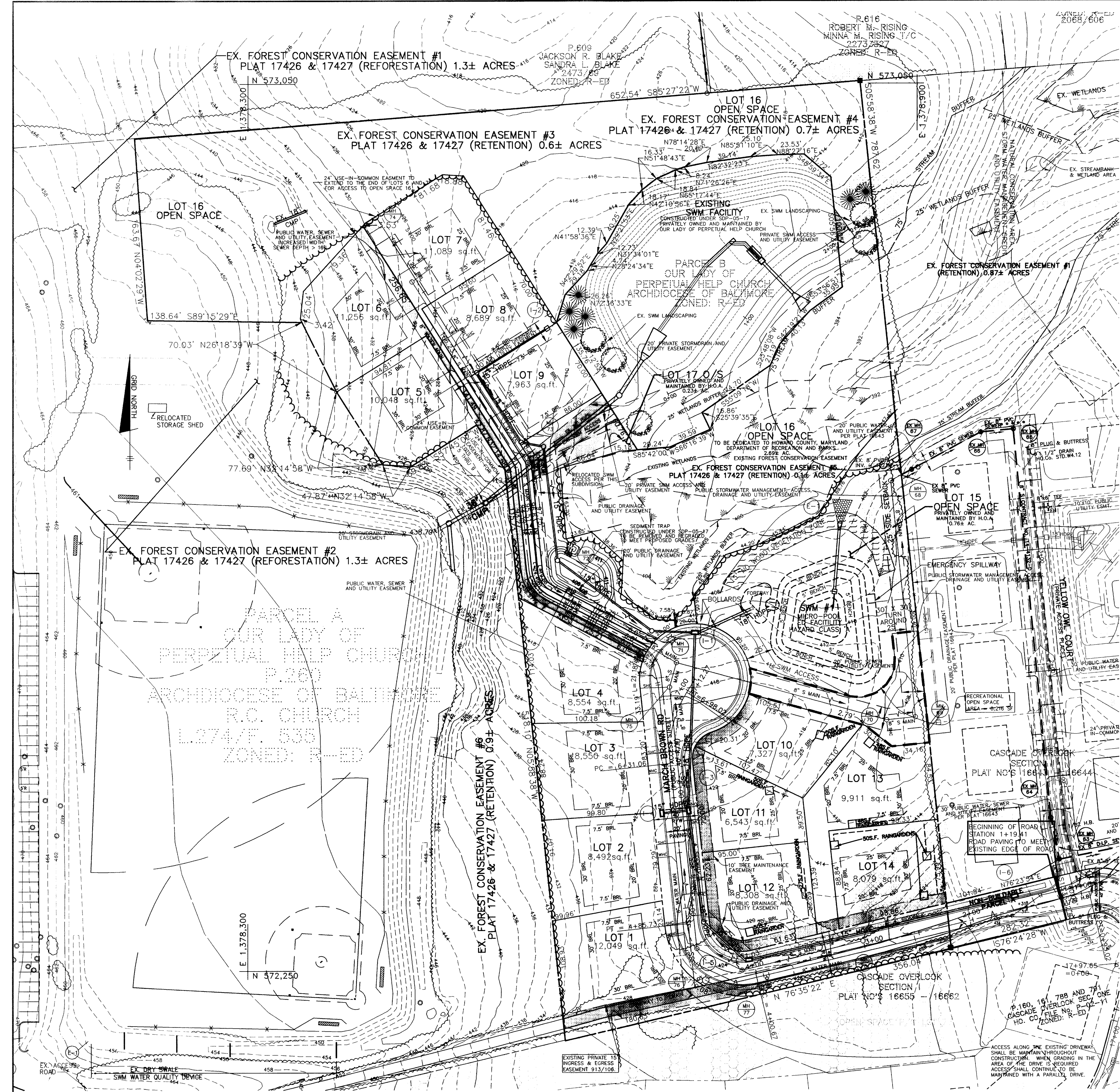
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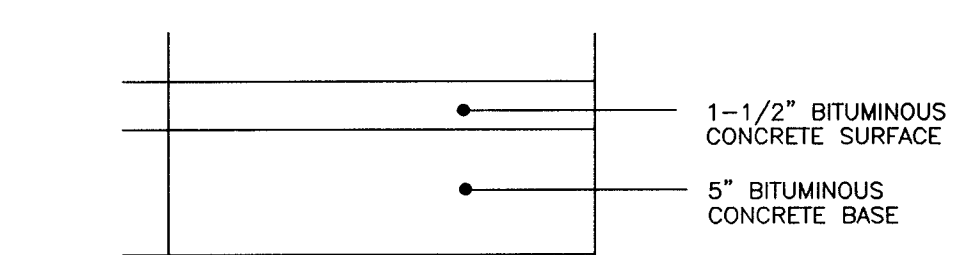
8480 BALTIMORE NATIONAL PKE ▲ SUITE 418  
ELLICOTT CITY, MARYLAND 21103  
PHONE: 410-465-6105 ▲ FAX: 410-465-6844  
WWW.BEL-CIVILENGINEERING.COM

OWNER: ARCHDIOCESE OF BALTIMORE ROMAN CATHOLIC CHURCH 4801 ILCHESTER ROAD ELLICOTT CITY, MD 21104	PROJECT: <b>CASCADE OVERLOOK</b> SECTION III A RESUBDIVISION OF PARCEL 'C' AND A RESUBDIVISION OF PARCEL 'A' CASCADE OVERLOOK SECTION 2
DEVELOPER/CONTRACT PURCHASER:  SECURITY DEVELOPMENT, LLC P.O. BOX 417 ELLICOTT CITY, MD 21104	LOCATION: TAX MAP 31, GRID 11, PARCELS 260 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
TITLE: PRELIMINARY EQUIVALENT SKETCH TITLE SHEET	DATE: JANUARY 2005 JANUARY 2006
DESIGN: BFC DRAFT: BFC CHECK: DAM	PROJECT NO. 1676 SHEET 1 OF 6

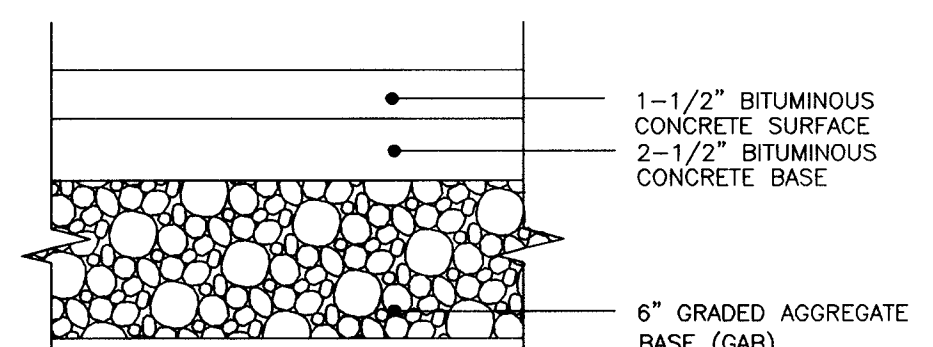




PLAN VIEW  
SCALE: 1" = 50'

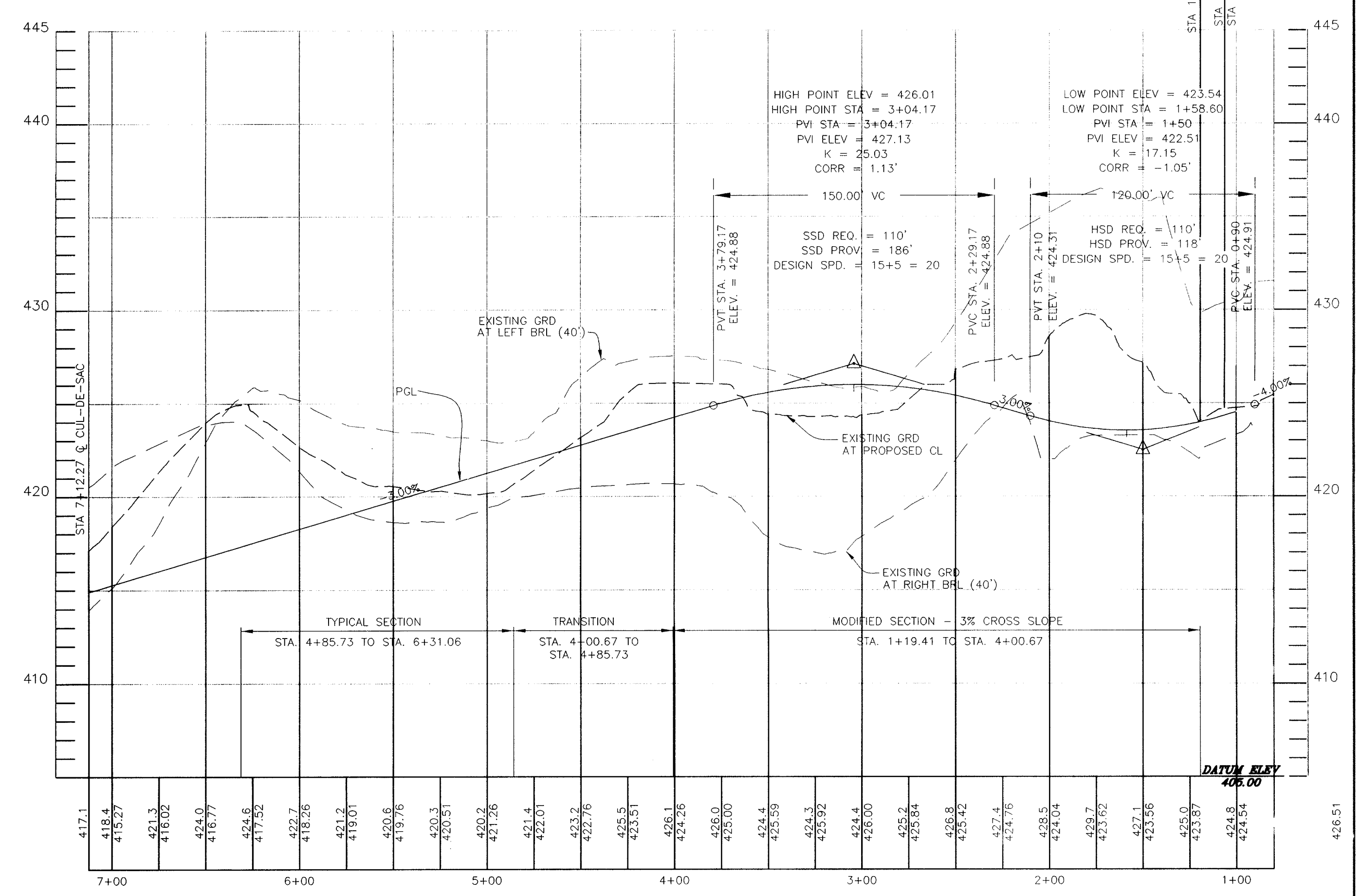


TYPICAL PAVEMENT SECTION

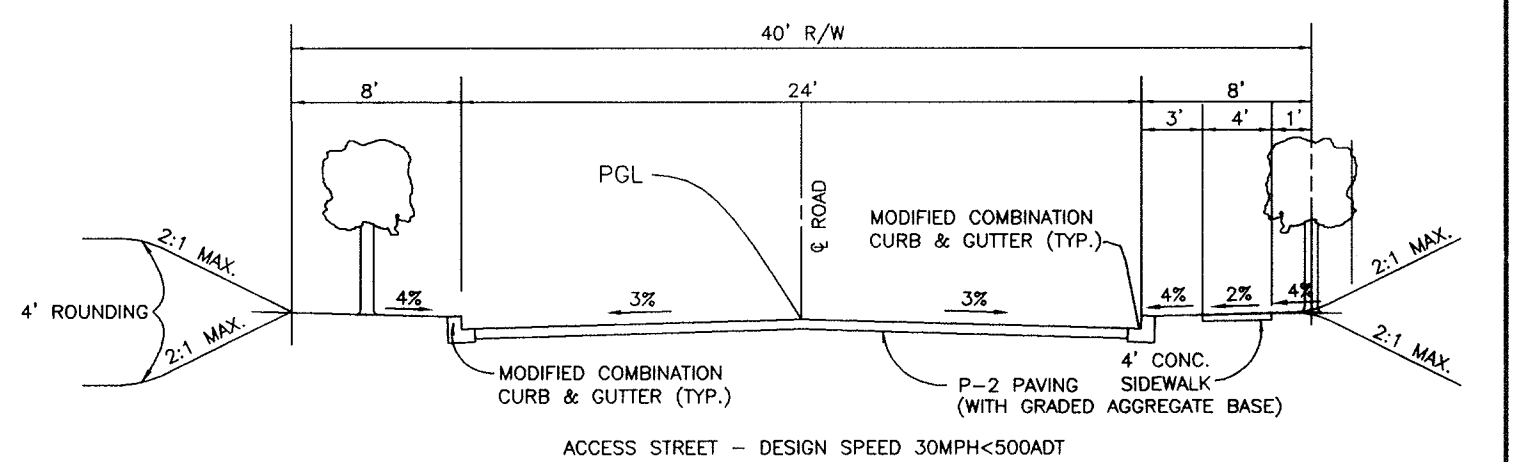
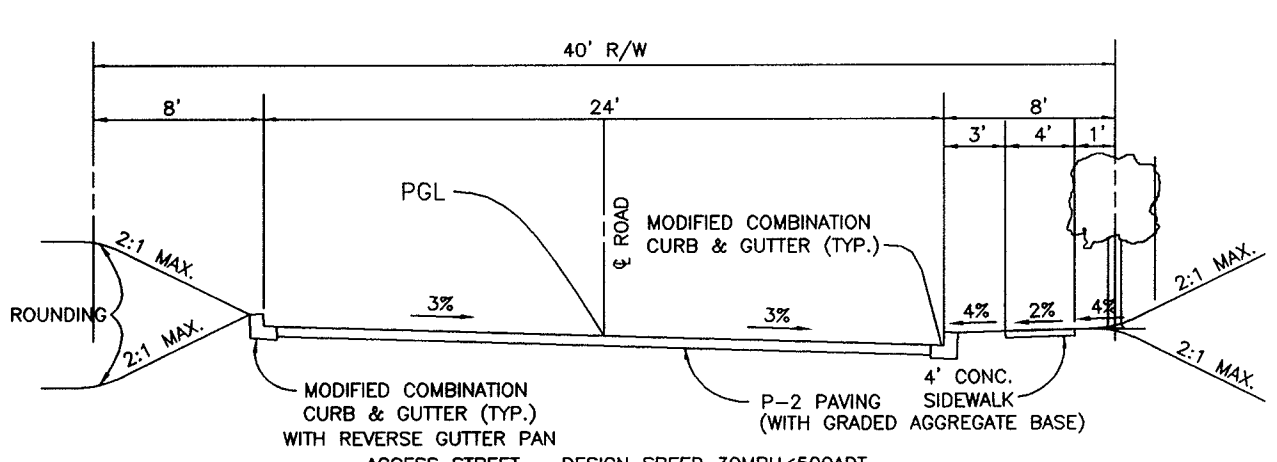


ALTERNATIVE PAVEMENT SECTION

P-2 PAVING SECTION  
NOT TO SCALE



MARCH BROWN ROAD  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



**GENERAL NOTES:**  
1. SECTION TRANSITION FROM STA. 4+00.67 TO 4+85.73.  
2. THE EXISTING 15' INGRESS AND EGRESS EASEMENT AND DRIVEWAY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OF THE ROAD. IN AREAS WHERE REGRADING IS NECESSARY A PARALLEL ROAD MUST BE PROVIDED SO INGRESS AND EGRESS REMAINS UNINTERRUPTED SEE DETAIL BELOW.

**APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY**

DATE: \_\_\_\_\_

**LEGEND**

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WOODS LINE
- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- SLOPES 15% TO 24.9%
- SLOPES 25% AND GREATER
- EXISTING FOREST CONSERVATION EASEMENT RETENTION
- LIMIT OF WETLANDS
- NO WOODY BUFFER
- EXISTING FOREST CONSERVATION EASEMENT RESTORATION
- PUBLIC STORMWATER MANAGEMENT, ACCESS AND UTILITY EASEMENTS
- PUBLIC WATER, SEWER AND UTILITY EASEMENTS
- NEW PAVE
- OTHER EASEMENTS

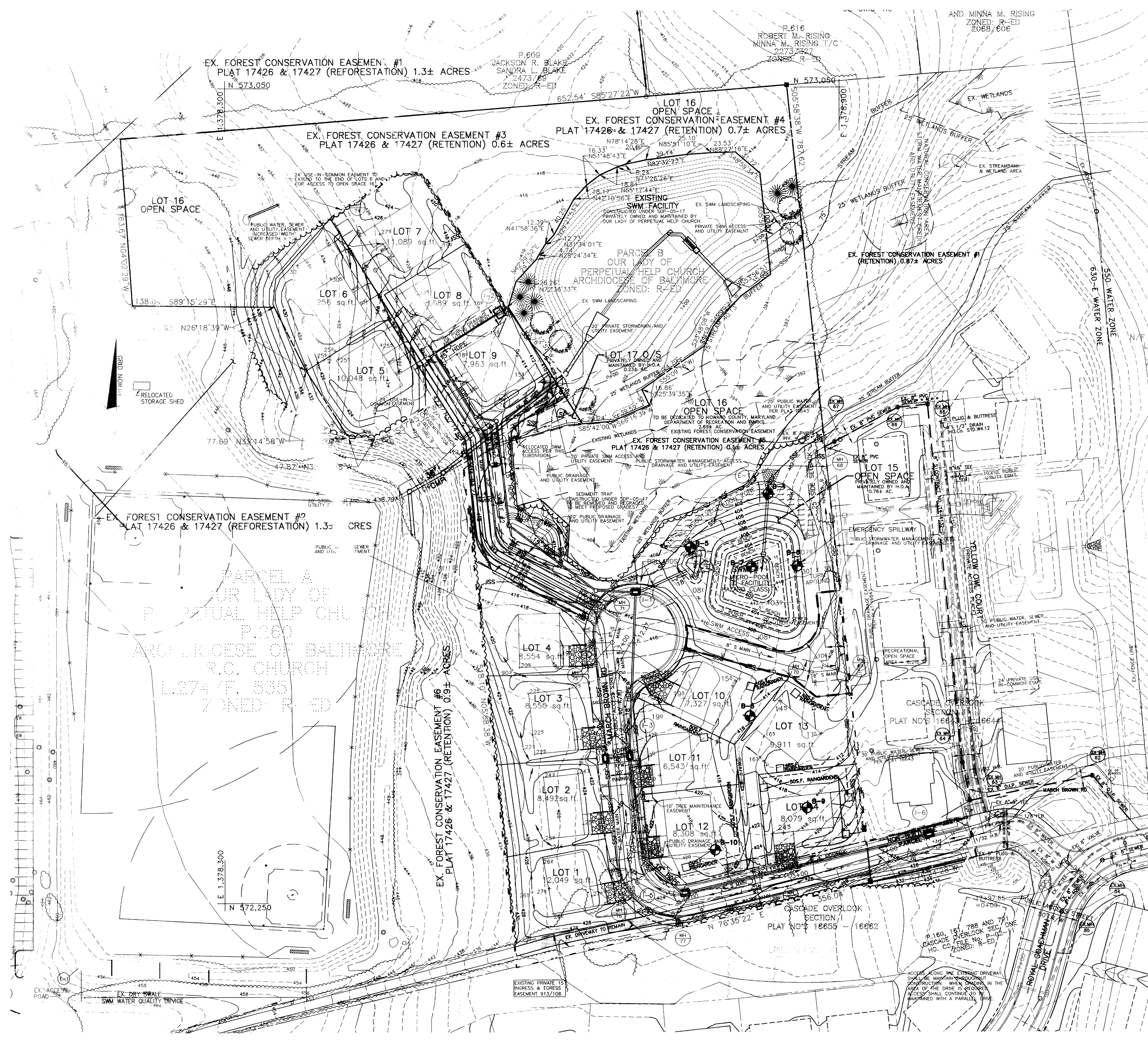
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<b>OWNERS:</b> ARCHDIOCESE OF BALTIMORE ROMAN CATHOLIC CHURCH 4801 ILCHESTER ROAD ELLCOTT CITY, MD 21043	<b>PROJECT:</b> <b>CASCADE OVERLOOK</b> SECTION III A RESUBDIVISION OF PARCEL 'C' AND A RESUBDIVISION OF PARCEL 'A' CASCADE OVERLOOK SECTION 2
<b>DEVELOPER/CONTRACT PURCHASER:</b> SECURITY DEVELOPMENT, LLC. P.O. BOX 417 ELLCOTT CITY, MD 21041	<b>LOCATION:</b> TAX MAP 31, GRID 11, PARCELS 260 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
<b>TITLE:</b> PRELIMINARY EQUIVALENT SKETCH PLAN AND ROAD PROFILE	<b>DATE:</b> JANUARY 2005 JANUARY 2006
<b>Design:</b> BFC <b>Draft:</b> BFC <b>Check:</b> DAM	<b>PROJECT NO.:</b> 1676 <b>DRAWING:</b> 2 OF 6

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DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

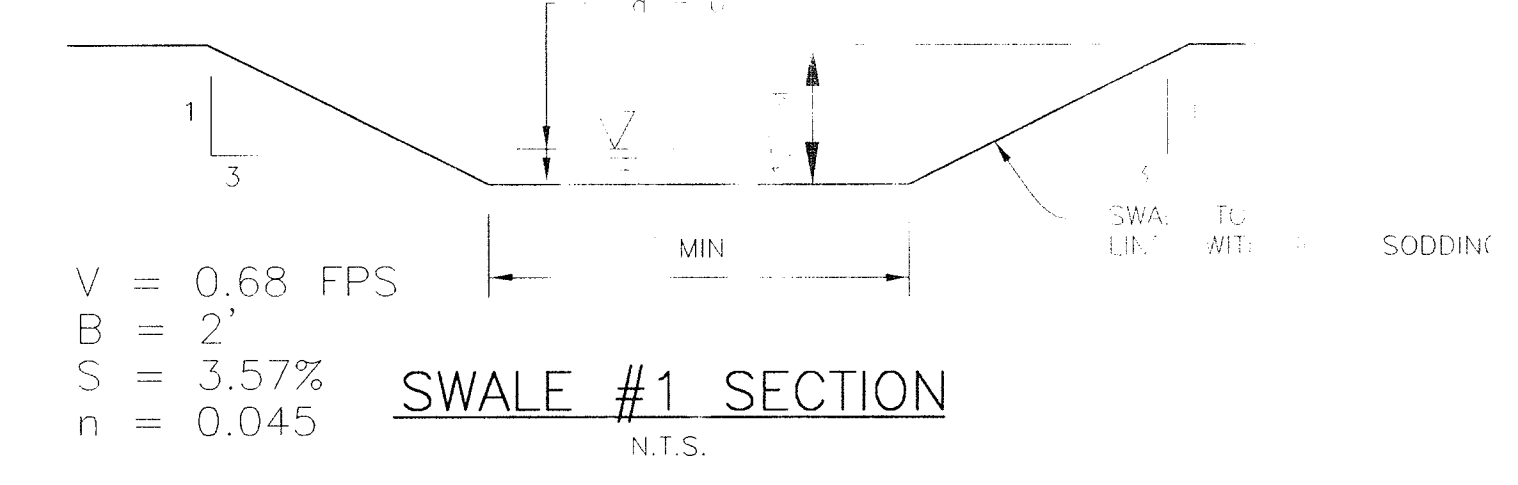
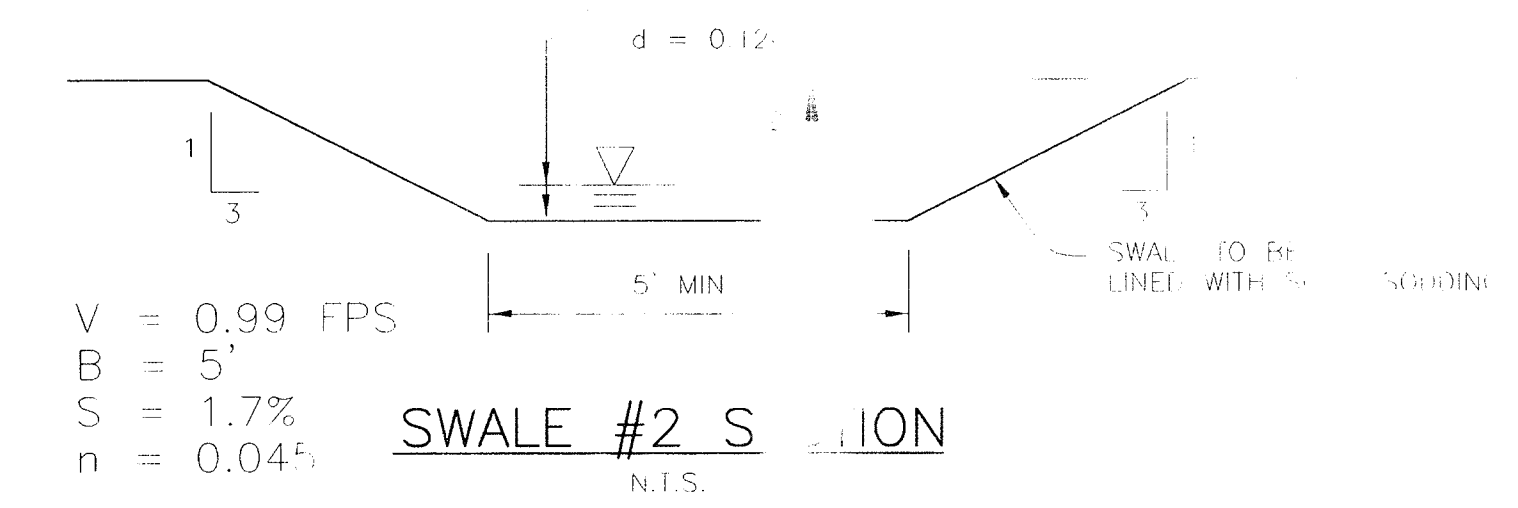
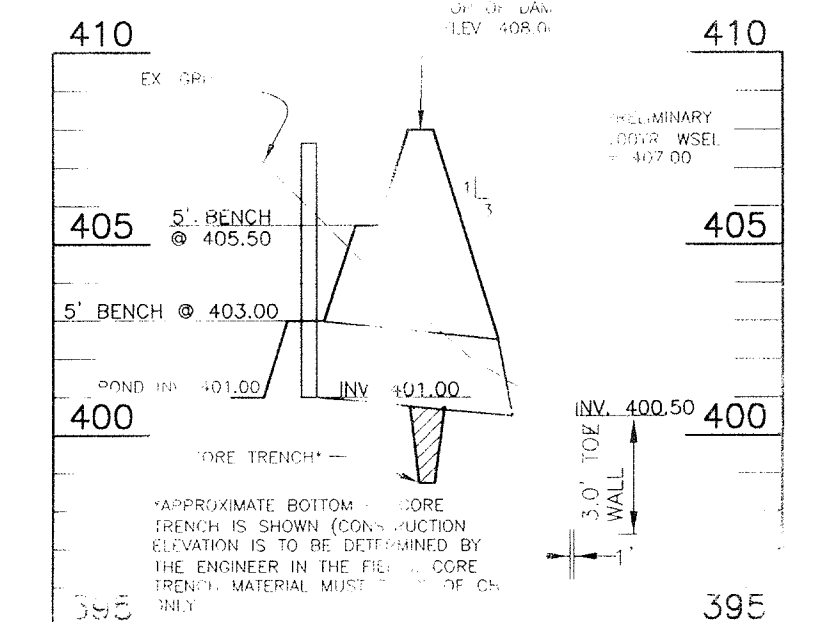
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PLANNING DIRECTOR DATE





### SWMF #1 WATER SURFACE ELEVATIONS

QUANTITY	TYPE	ELEVATION (FT)
WQv		404.03
Cpv		406.49
100 YR		407.00



#### LEGEND

- EXISTING CONTOURS --- 999 ---
- PROPOSED CONTOURS --- 999 ---
- EXISTING WOODS LINE [Symbol]
- EXISTING STRUCTURE [Symbol]
- PROPOSED STRUCTURE [Symbol]
- SLOPES 15% TO 24.9% [Symbol]
- SLOPES 25% AND GREATER [Symbol]
- LIMIT OF DISTURBANCE [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE [Symbol]
- SILT FENCE [Symbol]
- SUPER SILT FENCE [Symbol]
- CL STREAM [Symbol]
- LIMIT OF WETLANDS [Symbol]
- LIMIT OF SUBMISSION [Symbol]
- EXISTING FOREST CONSERVATION EASEMENT RETENTION [Symbol]
- NO WOODY BUFFER [Symbol]
- EXISTING FOREST CONSERVATION EASEMENT REFORESTATION [Symbol]
- PUBLIC STORMWATER MANAGEMENT, ACCESS AND UTILITY EASEMENTS [Symbol]
- PUBLIC WATER, SEWER AND UTILITY EASEMENTS [Symbol]
- NEW PAVE [Symbol]
- OTHER EASEMENTS [Symbol]

**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**  
DATE: 5.11.06  
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www.benchmark-engineering.com

**OWNERS:**  
ARCHDIOCESE OF BALTIMORE  
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4801 ILCHESTER ROAD  
ELLICOTT CITY, MD 21043

**DEVELOPER/CONTRACT PURCHASER:**  
SECURITY DEVELOPMENT, LLC.  
P.O. BOX 417  
ELLICOTT CITY, MD 21041

**PROJECT:** CASCADE OVERLOOK  
SECTION III  
A RESUBDIVISION OF PARCEL 'C'  
AND A RESUBDIVISION OF PARCEL 'A', CASCADE OVERLOOK SECTION 2

**LOCATION:** TAX MAP 31, GRID 11, PARCELS 360  
1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

**TITLE:** PRELIMINARY EQUIVALENT SKETCH  
GRADING AND SEDIMENT CONTROL PLAN

**DATE:** JANUARY 2005 PROJECT NO. 1676  
JANUARY 2006

**SCALE:** 1" = 50' DRAWING 3 OF 6

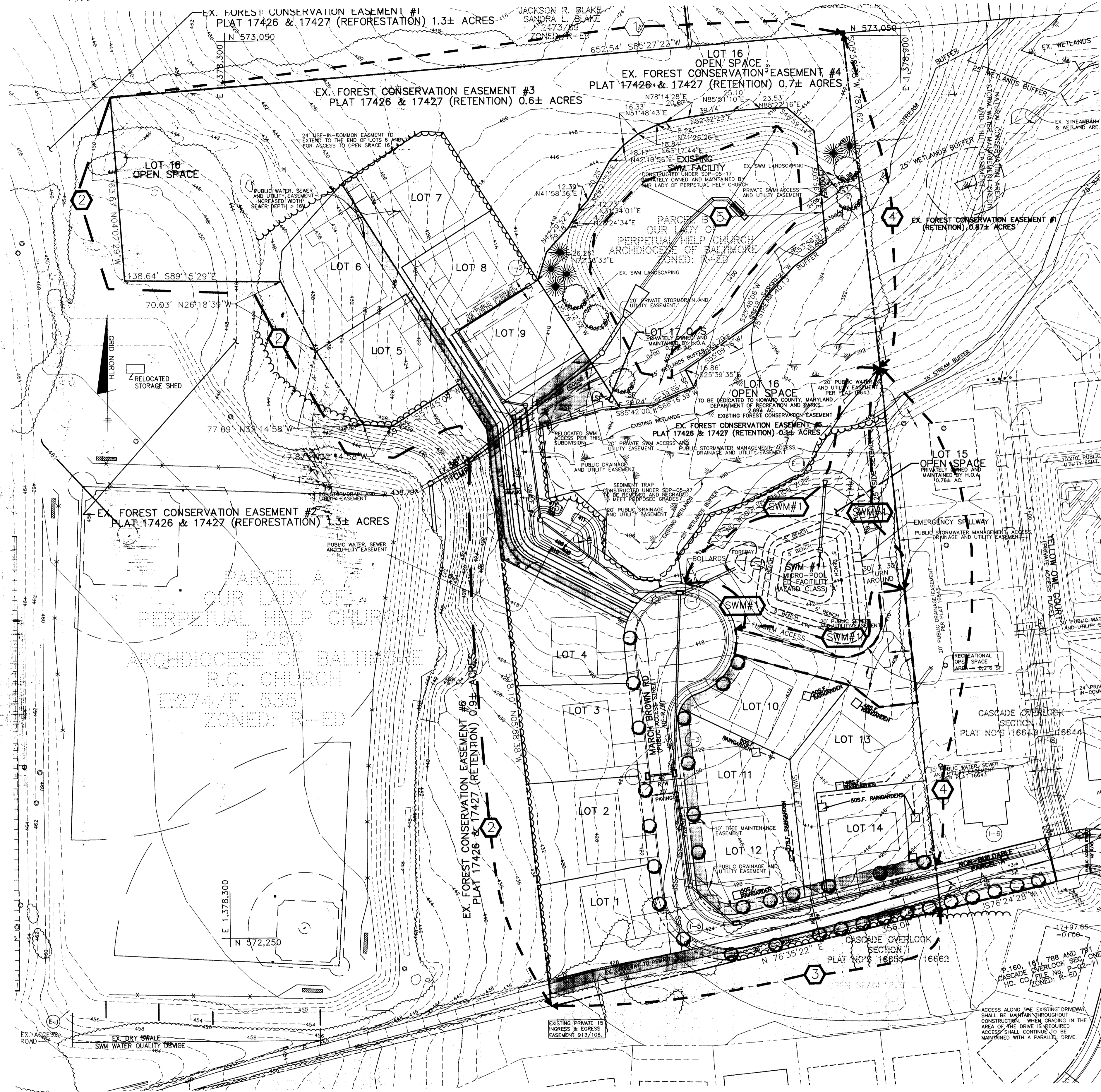
NOTE: SWM #1 WILL SERVE AS A BASIN DURING EROSION AND SEDIMENT CONTROL.

PLAN VIEW  
SCALE: 1" = 50'

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*[Signature]* PLANNING DIRECTOR  
*[Signature]* DATE





PLAN  
SCALE: 1" = 50'

LEGEND

- EXISTING TREELINE
- PROPOSED TREELINE
- CL STREAM
- LIMIT OF WETLANDS
- LIMIT OF SUBMISSION
- LANDSCAPE DESIGNATION PERIMETER DESIGNATION
- STREET TREES
- NO WOODY BUFFER
- EXISTING FOREST CONSERVATION EASEMENT - RETENTION
- EXISTING FOREST CONSERVATION EASEMENT - REFORESTATION

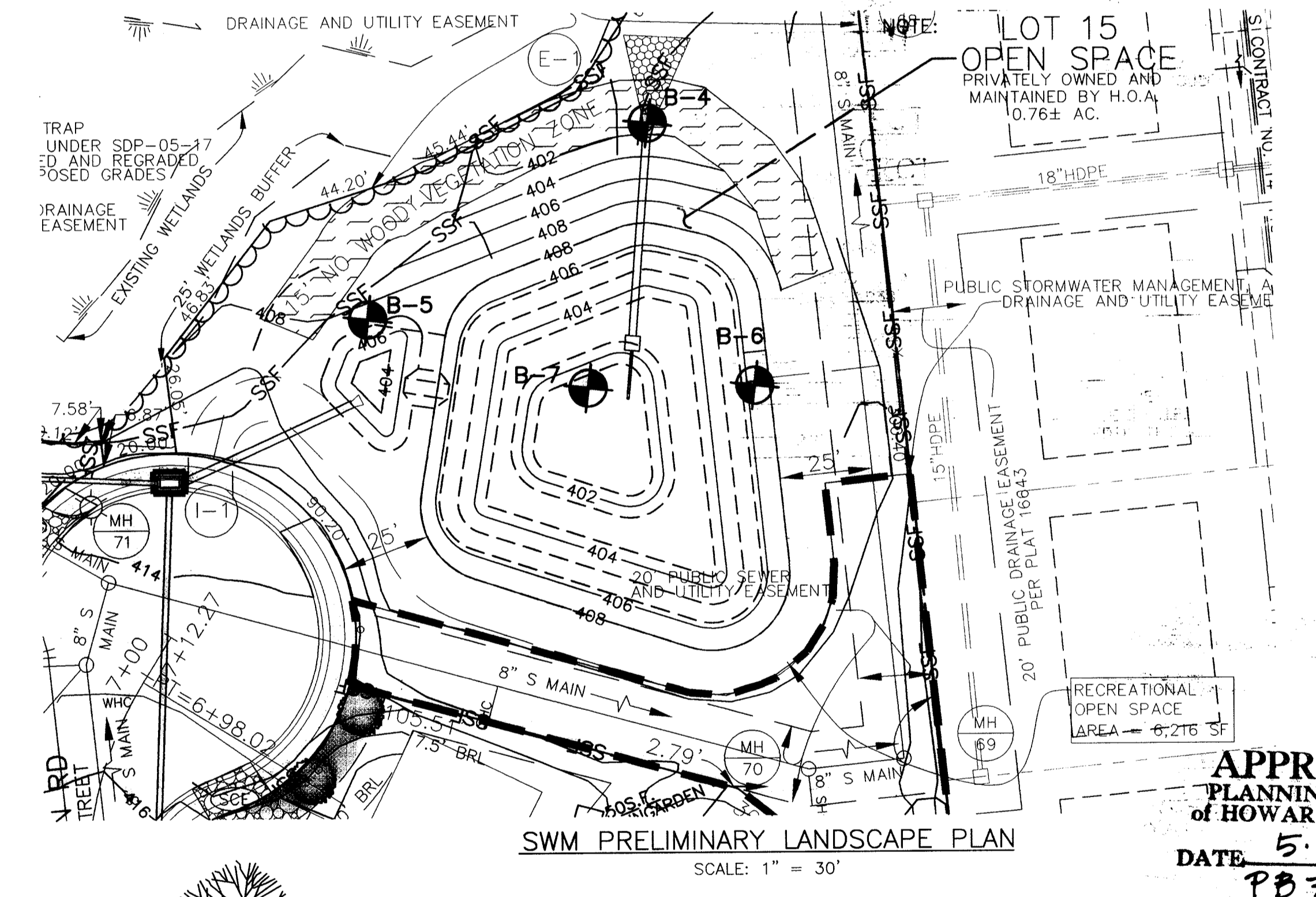
CATEGORY	SCHEDULE A PERIMETER LANDSCAPE EDGE				
	ADJ. TO PERIMETER PROP. ①	ADJ. TO PERIMETER PROP. ②	ADJ. TO PERIMETER PROP. ③	ADJ. TO PERIMETER PROP. ④	ADJ. TO PERIMETER PROP. ⑤
LANDSCAPE TYPE	A	A	A	A	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	652'	1136'	356'	787'	821'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 652'	YES 303'	NO	YES 355'	YES 685'
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED	0	833'	356'	432'	136'
SHADE TREES	-	14	6	8	8
EVERGREEN TREES	-	-	-	-	-
OTHER TREES (2:1 SUBSTITUTION) SHRUBS	-	-	-	-	-

\* EXISTING WOODS 20' OR GREATER IN WIDTH.

SCHEDULE B SWM AREA LANDSCAPING	
LINEAR FEET OF PERIMETER	SWM1 705'
LINEAR FEET OF EXISTING WOODS LINE	236'
LINEAR FEET OF REQUIRED PLANTING	469'
BUFFER TYPE	18'
NUMBER OF TREES REQUIRED	
SHADE TREES	10
EVERGREEN TREES	12
CREDIT FOR EXISTING VEGETATION (NO, YES AND %)	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND %)	NO

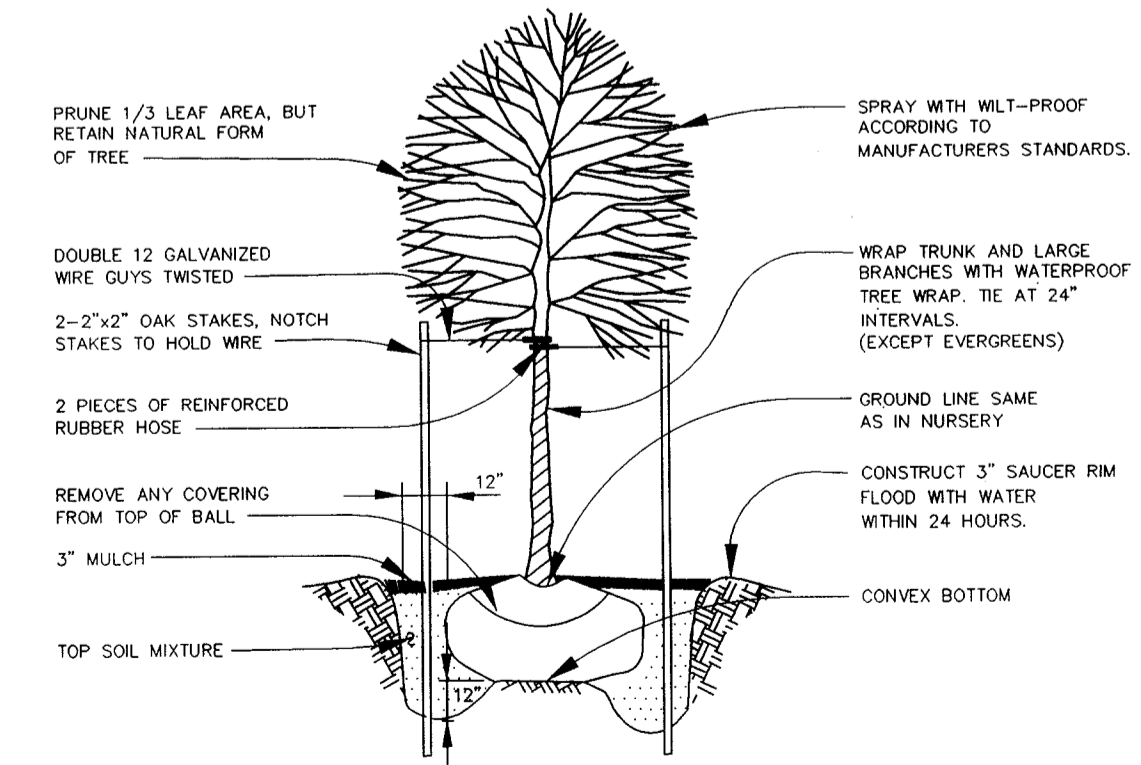
STREET TREE SCHEDULE	
ROAD NAME	PERIMETER TREES REQ.
MARCH BROWN RD.	1395'
	35'

LANDSCAPING FOR THIS SUBDIVISION IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.



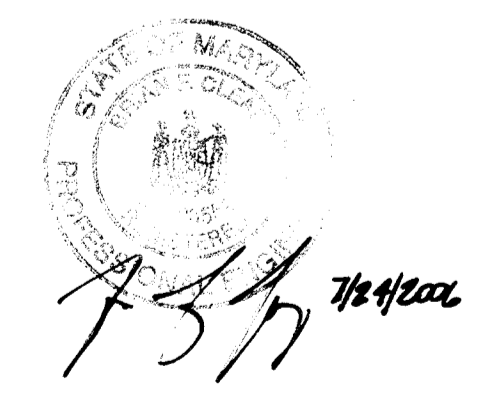
SWM PRELIMINARY LANDSCAPE PLAN  
SCALE: 1" = 30'

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 5-11-06  
PB 372



TREE PLANTING DETAIL  
NOT TO SCALE

**BENCHMARK**  
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8480 BALTIMORE NATIONAL PIKE • SUITE 418  
ELLICOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
www.bel-civilengineering.com



OWNERS: ARCHDIOCESE OF BALTIMORE ROMAN CATHOLIC CHURCH 4801 ILCHESTER ROAD ELLICOTT CITY, MD 21043	PROJECT: <b>CASCADE OVERLOOK</b> SECTION II A RESUBDIVISION OF PARCEL 'C' AND A RESUBDIVISION OF PARCEL 'A' CASCADE OVERLOOK SECTION 2
DEVELOPER/CONTRACT PURCHASER: SECURITY DEVELOPMENT, LLC. P.O. BOX 417 ELLICOTT CITY, MD 21041	LOCATION: TAX MAP 31, GRID 11, PARCELS 260 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
TITLE: PRELIMINARY EQUIVALENT SKETCH LANDSCAPE PLAN	DATE: JANUARY 2005 JANUARY 2006
Design: BFC Draft: BFC Check: DAM	PROJECT NO. 1676 DRAWING 4 OF 6

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY  
*[Signature]* 8/11/06  
PLANNING DIRECTOR DATE



SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
AdB2	C	ALDINO SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
AgC2	B	AURA GRAVELLY LOAM, 5 TO 8 PERCENT SLOPES, MODERATELY ERODED
BcC3	C	BELTSVILLE SILT LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
CnD3	B	CHILLUM-FAIRFAX LOAM, 5 TO 15 PERCENT SLOPES, SEVERELY ERODED
IuB	C	IUKA LOAM, LOCAL ALLUVIUM, 1 TO 5 PERCENT SLOPES
KeB2	D	KELLY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
LeC2	B	LEGORE SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
LgC3	B	LEGORE SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED
WaB	D	WATCHUNG SILT LOAM, 3 TO 8 PERCENT SLOPE

SOIL MAP NO. 20 & 21

**LEGEND**

- EXISTING CONTOURS  999
- PROPOSED CONTOURS  999
- EXISTING WOODS LINE
- EXISTING STRUCTURE
- PROPOSED STRUCTURE



**APPROVED**  
 PLANNING BOARD  
 of HOWARD COUNTY  
 DATE 5.11.06  
 PB 372

TENTATIVELY APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY  
*Stephany...* 5/11/06  
 PLANNING DIRECTOR DATE

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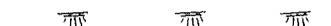



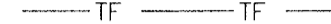

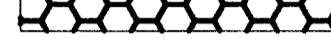

<b>OWNERS:</b> ARCHDIOCESE OF BALTIMORE ROMAN CATHOLIC CHURCH 4801 ILCHESTER ROAD ELLICOTT CITY, MD 21043	<b>PROJECT:</b> <b>CASCADE OVERLOOK</b> SECTION III A RESUBDIVISION OF PARCEL 'C' AND A RESUBDIVISION OF PARCEL 'A' CASCADE OVERLOOK SECTION 2
<b>DEVELOPER/CONTRACT PURCHASER:</b> SECURITY DEVELOPMENT, LLC. P.O. BOX 417 ELLICOTT CITY, MD 21041	<b>LOCATION:</b> TAX MAP 31, GRID 11, PARCELS 260 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
<b>TITLE:</b> PRELIMINARY EQUIVALENT SKETCH STORMDRAINAGE AREA MAP AND SOILS MAP	<b>DATE:</b> JANUARY 2005 JANUARY 2006
<b>Design:</b> BFC <b>Draft:</b> BFC <b>Check:</b> DAM	<b>PROJECT NO.:</b> 1676 <b>SCALE:</b> 1" = 50' <b>DRAWING</b> 5 <b>OF</b> 6

PLAN VIEW  
 SCALE: 1" = 50'



NOTE: THE FOREST CONSERVATION EASEMENTS ARE SHOWN PER RECORDED PLAT 17426 AND 17427.

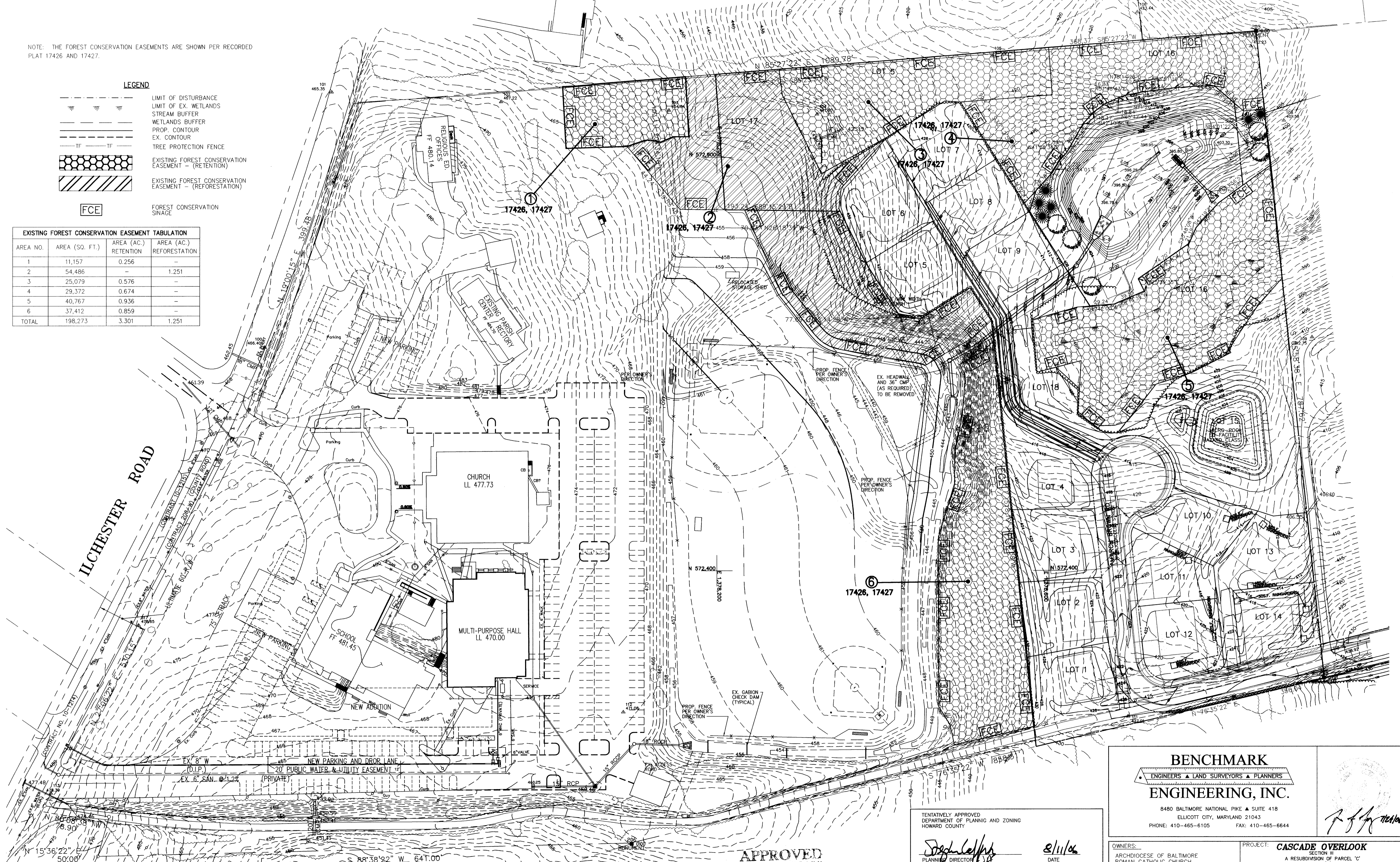
**LEGEND**

-  LIMIT OF DISTURBANCE
-  LIMIT OF EX. WETLANDS
-  STREAM BUFFER
-  WETLANDS BUFFER
-  PROP. CONTOUR
-  EX. CONTOUR
-  TREE PROTECTION FENCE
-  EXISTING FOREST CONSERVATION EASEMENT - (RETENTION)
-  EXISTING FOREST CONSERVATION EASEMENT - (REFORESTATION)

**FCE**

FOREST CONSERVATION SINAIGE

EXISTING FOREST CONSERVATION EASEMENT TABULATION			
AREA NO.	AREA (SQ. FT.)	AREA (AC.) RETENTION	AREA (AC.) REFORESTATION
1	11,157	0.256	-
2	54,486	-	1.251
3	25,079	0.576	-
4	29,372	0.674	-
5	40,767	0.936	-
6	37,412	0.859	-
TOTAL	198,273	3.301	1.251



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PHONE: 410-465-6105 FAX: 410-465-6644

*P. J. Kelly*

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*Joseph Kelly*  
PLANNING DIRECTOR

*2/11/06*  
DATE

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY

DATE 5.11.06  
372

PLAN VIEW  
SCALE: 1" = 50'

THIS FOREST CONSERVATION IS NOT PART OF THIS PLAN. THE FCE PLAN WAS APPROVED AND BONDED UNDER SDP-05-17, OUR LADY OF PERPETUAL HELP, FOR THE ENTIRE AREA OF PARCEL 260, INCLUDING OUR LADY OF PERPETUAL HELP AND CASCADE OVERLOOK SECTION III.

OWNERS: ARCHDIOCESE OF BALTIMORE ROMAN CATHOLIC CHURCH 4801 ILCHESTER ROAD ELLICOTT CITY, MD 21043	DEVELOPER/CONTRACT PURCHASER: SECURITY DEVELOPMENT, LLC P.O. BOX 417 ELLICOTT CITY, MD 21041 (410) 465-4244	DES: BFC DRN: BFC CHK: DAM
PROJECT: <b>CASCADE OVERLOOK</b> SECTION III A RESUBDIVISION OF PARCEL 'C' AND A RESUBDIVISION OF PARCEL 'A' CASCADE OVERLOOK SECTION 2 LOCATION: TAX MAP 31, GRID 11, PARCELS 260 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND	TITLE: <b>PRELIMINARY EQUIVALENT SKETCH EXISTING FOREST CONSERVATION PLAN</b>	DATE: JANUARY 2005 JANUARY 2006
PROJECT NO. 1676		SCALE: AS SHOWN
DRAWING <u>6</u> OF <u>6</u>		