

**GENERAL NOTES**

- ALL ASPECTS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVER(S) HAVE BEEN APPROVED.
- THE BOUNDARY SHOWN IS BASED ON A MONUMENTED FIELD-RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC., DATED FEBRUARY, 2003.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL MONUMENTS 46C3 & 47AA, WHICH ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- EXISTING TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY BENCHMARK ENGINEERING, INC. ON OR ABOUT JULY, 2006. CONTOUR INTERVAL IS 2 FEET.
- EXISTING UTILITIES SHOWN HEREON ARE BASED ON FIELD LOCATIONS AND RECORD DRAWINGS.
- THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT, WATER AND SEWER SHALL BE PUBLIC, CONNECTING TO CONTRACTS NO.354-W & NO.529-S, RESPECTIVELY. DRAINAGE AREA IS WITHIN THE PATUXENT RIVER WATERSHED.
- FOREST STAND DELINEATION PLAN WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC., DATED JANUARY, 2003 AND APPROVED UNDER S-03-007.
- NO SPECIMEN TREES WERE FOUND ON-SITE AS PER FOREST STAND DELINEATION PLAN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC., DATED JANUARY, 2003 AND APPROVED UNDER S-03-007.
- NO WETLANDS OR 100-YEAR FLOODPLAIN EXIST WITHIN THE PROJECT LIMITS AS PER A CERTIFICATION LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED SEPTEMBER 9, 2002 AND APPROVED UNDER S-03-007.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A.P.F.O. TRAFFIC STUDY WAS PREPARED BY THE MARS TRAFFIC GROUP, INC. DATED APRIL, 2002 AND APPROVED UNDER S-03-007.
- THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY GEOTECHNICAL LABORATORIES, INC. DATED NOVEMBER, 2006.
- THERE ARE EXISTING STRUCTURES LOCATED ON-SITE TO BE REMOVED PRIOR TO RECORDATION OF FINAL PLAT.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON-SITE.
- THIS PLAN IS SUBJECT TO THE 5th EDITION OF THE HOWARD COUNTY SUBDIVISION REGULATIONS AND THE AMENDED HOWARD COUNTY ZONING REGULATIONS, IT ALSO FALLS UNDER THE CRITERIA ESTABLISHED UNDER THE INFILL DEVELOPMENT REGULATIONS OF COUNCIL BILL 45-2003 EFFECTIVE OCTOBER 2, 2003.
- STORMWATER MANAGEMENT SHALL BE PROVIDED FOR THIS PROJECT BASED ON GUIDELINES ESTABLISHED BY THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES I & II. QUALITY CONTROL SHALL BE PROVIDED BY: A BIO-RETENTION FACILITY (F-6) WITH AN UNDERGROUND STONE ROW CHAMBER, THE NON-STRUCTURAL CREDIT/USE OF REINTEGRATED/BIO-RETENTION ON RESIDENTIAL LOTS, AND THE USE OF NATURAL CONSERVATION AND DISCONNECTION CREDITS. QUALITY CONTROL (CQ) IS NOT REQUIRED.
- THE STORMWATER MANAGEMENT SYSTEM SHOWN ON THIS PLAN IS AN APPROXIMATION OF THE SIZE, SHAPE, AND LOCATION. IT IS UNDERSTOOD THAT THIS SYSTEM HAS NOT BEEN DESIGNED AND THE ACTUAL DESIGN MAY CHANGE ALTERING THE NUMBER OF UNITS ALLOCATED FOR THIS DEVELOPMENT.
- STREET LIGHTS ARE REQUIRED AND SHALL BE PROVIDED PER DESIGN MANUAL REQUIREMENTS.
- ALL LANDSCAPING REQUIREMENTS AS SET FORTH IN THE LANDSCAPE MANUAL SHALL BE FULFILLED.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY AND NOT TO THE PIPESTEM LOT DRIVEWAY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE).
  - SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING.
  - GEOMETRY - MAX. 15% GRADE CHANGE & MIN. 45' TURNING RADIUS.
  - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S LOAD)
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
  - STRUCTURE CLEARANCES - MINIMUM 12 FEET.
  - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- IT IS UNDERSTOOD THAT THE FINAL DESIGN OF THE ROADWAY AND TREE TURNAROUND WILL BE IN COMPLIANCE WITH ALL SPECIFICATIONS AND REGULATIONS IN EFFECT AT THE TIME OF FINAL PLAN SUBMISSION AND THAT THIS MAY ALTER THE LAYOUT AS SHOWN ON THIS PLAN.
- SUBJECT PROPERTY IS ZONED R-20 PER 2-02-04 COMPREHENSIVE ZONING PLAN.
- APPLICABLE HOWARD COUNTY DPZ FILE REFERENCES FOR THIS PROJECT INCLUDE: S-03-007, CONTR. No.24-4449-D
- THE FOREST CONSERVATION ACT REQUIREMENTS FOR THIS PROJECT HAS BEEN CALCULATED TO BE 0.8 AC. OF ON-SITE RETENTION AND 0.8 AC. OF REFORESTATION. THE REFORESTATION OBLIGATION WILL BE MET BY 0.23 AC. OF ON-SITE PLANTINGS. THE DEVELOPER WILL SEEK A SUITABLE OFF-SITE LOCATION TO SATISFY THE REMAINDER OF THE REFORESTATION OBLIGATION. PAYMENT INTO THE COUNTY'S PROGRAM WILL BE APPROVED BY DPZ IF NO SUITABLE LOCATIONS ARE FOUND.
- WRITTEN AUTHORIZATION BY BOE OF THE PROJECT LANDSCAPE PLAN WAS OBTAINED BY CORRESPONDENCE DATED FEBRUARY 28, 2007. PRIOR TO SIGNATURE APPROVAL OF FINALS/ROAD CONSTRUCTION DRAWINGS.
- A LETTER OF AUTHORIZATION BY ADJACENT PROPERTY OWNERS OF THE SWMF OUTFALL CONSTRUCTION WILL BE OBTAINED PRIOR TO SIGNATURE APPROVAL OF FINALS/ROAD CONSTRUCTION DRAWINGS.

NO.	NORTHING	EASTING
1	535,374.5807	1,345,683.1419
2	535,318.4829	1,345,793.6807
3	535,166.4334	1,345,723.7021
4	535,229.7555	1,345,611.5009
5	534,952.4367	1,345,486.8666
6	535,118.2205	1,345,203.7964
7	535,799.0490	1,345,717.7349
8	535,722.0577	1,345,865.3310
100	535,699.3995	1,345,853.4509
101	535,704.0325	1,345,844.5888
102	535,693.4736	1,345,810.8246
103	535,275.4856	1,345,591.6652
104	535,268.7356	1,345,593.7716
105	535,265.4850	1,345,599.9711
106	535,239.8013	1,345,586.5046
107	535,269.5204	1,345,529.8233
108	535,295.2042	1,345,543.2898
109	535,291.9536	1,345,549.4893
110	535,294.0601	1,345,556.2394
111	535,712.6308	1,345,775.7043
112	535,747.2694	1,345,765.6613
113	535,782.2513	1,345,705.0548

# HICKORY HILLS

## LOTS 1 THRU 3 & 5 THRU 10 AND O.S. LOTS 4 & 11

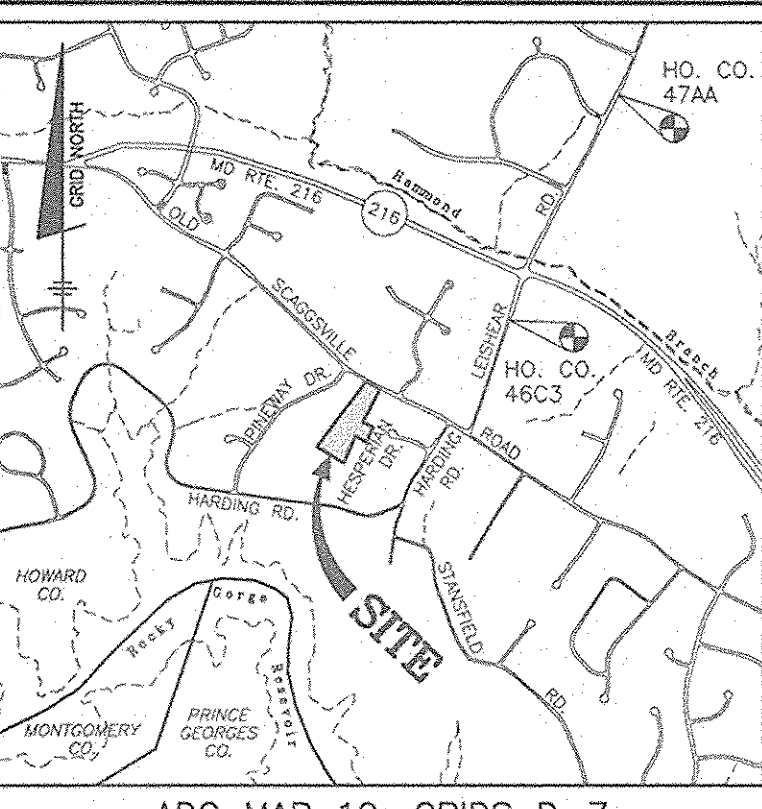
### PARCEL 289 / ZONE: R-20

### 6th ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND

## PRELIMINARY PLAN P-07-014

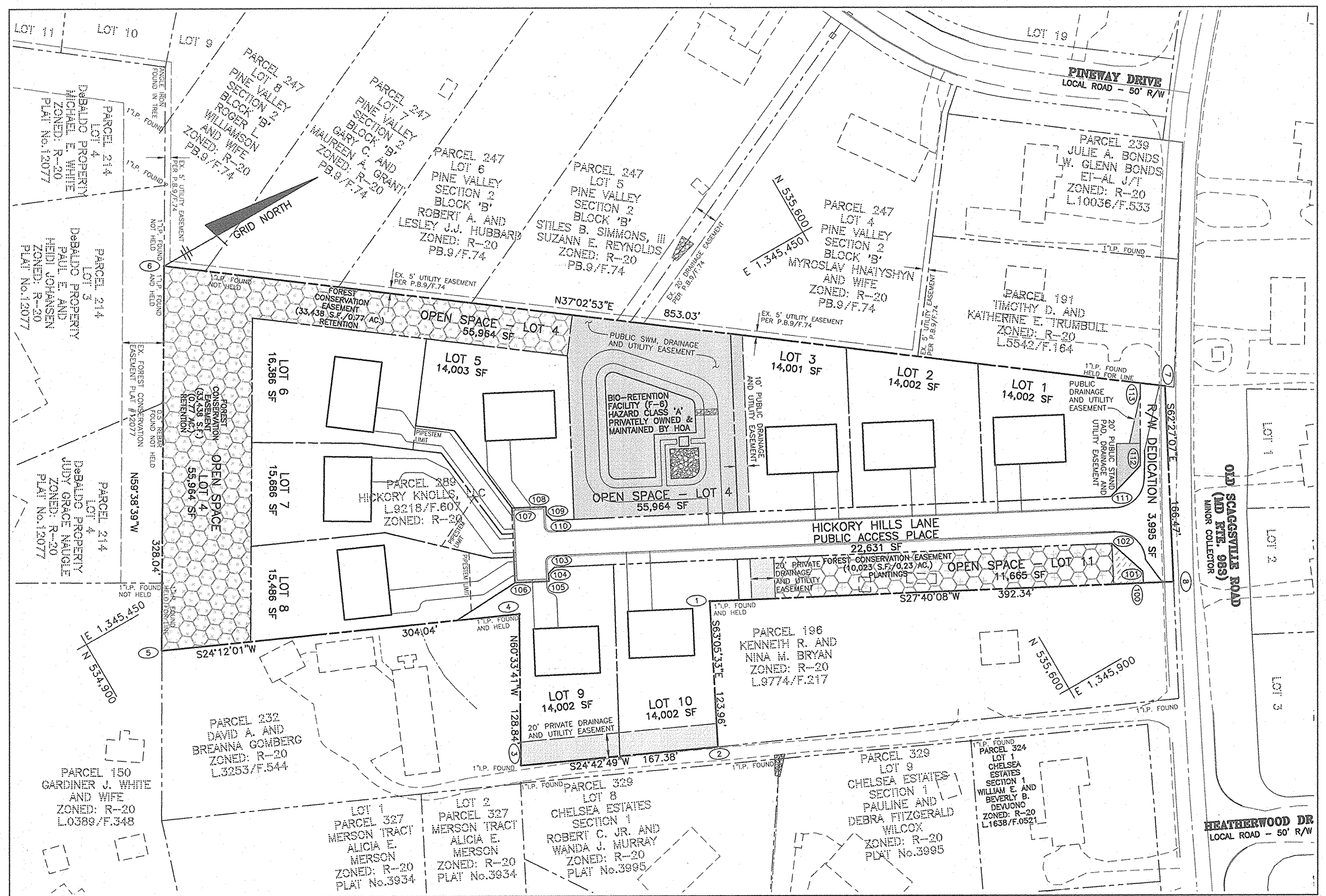
HO. CO. #46C3	EL=334.488
N-537,405.865	E=1,347,556.237
STAMPED DISC ON CONC. MONUMENT	
25.1' NW FROM EX. FH ALONG W. EDGE OF LEISHEAR ROAD; 30.0' FROM EOP; 400' NE FROM INT. OF MD RTE. 216	
HO. CO. #47AA	EL=363.428
N-580,648.904	E=1,364,974.471
STAMPED DISC ON CONC. MONUMENT	
109.4' N FROM BGC POLE #231865; 262.5' S FROM INT. GREALOCK RD; 262.5' E FROM C/L LEISHEAR ROAD	



ADC MAP 19; GRIDS D-7  
VICINITY MAP  
SCALE: 1"=2000'

**LEGEND**

- SOILS CLASSIFICATION: A/C1
- SOILS DELINEATION: [Symbol]
- EXISTING CONTOURS: [Symbol]
- PROPOSED CONTOURS: [Symbol]
- EXISTING WOODS LINE: [Symbol]
- PROPOSED WOODS LINE: [Symbol]
- EXISTING STRUCTURE: [Symbol]
- PROPOSED STRUCTURE: [Symbol]
- STEEP SLOPES 15% TO 24.9%: [Symbol]
- STEEP SLOPES 25% OR GREATER: [Symbol]
- PROP. PUBLIC DRAINAGE AND UTILITY EASEMENT: [Symbol]
- PROP. PRIVATE DRAINAGE AND UTILITY EASEMENT: [Symbol]
- NON-CREDITED OPEN SPACE: [Symbol]
- PROP. NATURAL CONSERVATION AREA: [Symbol]
- SWM 15' NO-WOODY VEGETATION ZONE: [Symbol]
- DRAINAGE AREA: [Symbol]
- DRAINAGE DIVIDE: [Symbol]
- To STUDY PATH: [Symbol]
- PROP. FOREST CONSERVATION AREA: [Symbol]
- TREE PROTECTION FENCE: TF
- FCE PERMANENT SIGNAGE: FCE
- LIMIT OF DISTURBANCE: [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE: [Symbol]
- SILT DIVERSION FENCE: SDF
- SILT FENCE: SF
- SUPER SILT FENCE: SSF
- INLET PROTECTION: [Symbol]
- REMOVABLE PUMP STATION: RPS



LOCATION PLAN  
SCALE: 1" = 60'

NO.	DESCRIPTION
1	TITLE SHEET, NOTES AND DETAILS
2	PRELIMINARY PLAN, NOTES AND DETAILS
3	GRAINING, SEDIMENT & EROSION CONTROL PLAN
4	LANDSCAPING PLAN, NOTES AND DETAILS
5	FOREST CONSERVATION PLAN, NOTES AND DETAILS
6	ROADWAY PROFILE, NOTES & DETAILS
7	PUBLIC ROADWAY IMPROVEMENT PROFILES, NOTES & DETAILS
8	STORM DRAINAGE AREA AND SOILS MAP

LOT NO.	GROSS AREA	PIPESTEM AREA	MIN. LOT SIZE
6	16,386.3 S.F.	2,352.2 S.F.	14,034.1 S.F.
7	15,686.0 S.F.	1,679.9 S.F.	14,006.1 S.F.
8	15,485.9 S.F.	1,310.0 S.F.	14,175.9 S.F.

NOTE: CONTRACTORS TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG MD RTE. 983

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*Michael A. Eagle* 5/2/07  
PLANNING DIRECTOR DATE

**SITE DATA TABULATION**

- GENERAL SITE DATA
  - PRESENT ZONING: R-20
  - LOCATION: TAX MAP 46 - GRID 12 - PARCEL 289
  - APPLICABLE DPZ FILE REFERENCES: S-03-007
  - DEED REFERENCE: L.9218 / F.607
  - PROPOSED USE OF SITE: 9 SFD HOMES; 2 OPEN SPACE LOTS
  - PROPOSED WATER AND SEWER SYSTEMS: PUBLIC
- AREA TABULATION
  - TOTAL AREA OF SITE ..... 5.18 Ac. ±
  - AREA OF 100 YEAR FLOODPLAIN (APPROX.) ..... 0.10 Ac. ±
  - AREA OF STEEP SLOPES (25% OR GREATER) ..... 0.10 Ac. ±
  - NET AREA OF SITE ..... 5.08 Ac. ±
  - AREA OF THIS PLAN SUBMISSION ..... 5.18 Ac. ±
  - LIMIT OF DISTURBANCE (APPROX.) ..... 4.40 Ac. ±
  - AREA OF PROPOSED BUILDABLE LOTS ..... 3.01 Ac. ±
  - AREA OF OPEN SPACE LOTS ..... 1.56 Ac. ±
  - AREA OF PROPOSED PUBLIC ROAD ..... 0.61 Ac. ±
  - AREA OF PROPOSED PUBLIC R/W DEDICATION ..... 0.61 Ac. ±
- DENSITY TABULATION
  - NET AREA OF SITE ..... 5.08 Ac. ±
  - TOTAL NUMBER OF LOTS ALLOWED ( @ 2 D.U./PER ACRE ) ..... 10
- UNIT/LOT TABULATION
  - TOTAL NUMBER OF RESIDENTIAL LOTS PROPOSED ON THIS SUBMISSION ..... 9
  - TOTAL NUMBER OF OPEN SPACE LOTS PROPOSED ON THIS SUBMISSION ..... 2
- OPEN SPACE DATA
  - MINIMUM RESIDENTIAL LOT SIZE SELECTED ..... 14,000 S.F.
  - OPEN SPACE REQUIRED FOR TOTAL AREA OF SITE (30% OF 5.18 AC.) ..... 1.55 Ac.
  - TOTAL AREA OF PROPOSED OPEN SPACE LOTS PROVIDED WITH THIS SUBDIVISION ..... 1.56 Ac.
  - 1) OPEN SPACE AREAS LESS THAN 35' IN WIDTH (NON-CREDITED) ..... 0.01 Ac.
  - 2) TOTAL AREA OF OPEN SPACE MEETING MINIMUM OPEN SPACE REQUIREMENTS (CREDITED) ..... 1.55 Ac.
  - AREA OF RECREATIONAL OPEN SPACE REQUIRED ..... N/A
  - 1) TOTAL AREA OF RECREATIONAL OPEN SPACE PROVIDED ..... 0.00 Ac.

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS • LAND SURVEYORS • PLANNERS

8480 BALTIMORE NATIONAL PIKE & SUITE 418  
ELICOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
E-MAIL: benchmark@bei-civilengineering.com

*Donnell Mann* 4/23/07

OWNER/DEVELOPER: HICKORY KNOLLS, L.L.C.  
11807 WOLLINGFORD COURT  
CLARKSVILLE, MARYLAND, 21029

PROJECT: HICKORY HILLS  
LOTS 1 THRU 3 & LOTS 5 THRU 10  
AND OPEN SPACE LOTS 4 & 11

LOCATION: TAX MAP 46 - GRID 12  
PARCEL 289  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: PRELIMINARY PLAN  
TITLE SHEET  
NOTES AND DETAILS

DATE: NOVEMBER 6, 2006 PROJECT NO. 1560  
APRIL 24, 2007

Des: MCR/DAM Draft: MCR Check: DAM SCALE: AS SHOWN DRAWING 1 OF 8

NOTE: CONTRACTORS TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG MD RTE. 983

**HICKORY HILLS LANE STREET LIGHT SCHEDULE**

SYMBOL	DESCRIPTION	LOCATION
	175 WATT HPS METAL HALIDE "ACORN-GOTHIC" POST TOP FIXTURE MOUNTED ON A 14' BLACK FIBERGLASS POLE.	STA. 0+47.23 OFFSET: 13.18' RT. STA. 5+11.91 OFFSET: 13.00' LT.

**OLD SCAGSVILLE ROAD - MD RTE. 983 STREET LIGHT SCHEDULE**

SYMBOL	DESCRIPTION	LOCATION
	250-WATT HPS VAPOR PENDANT FIXTURE (S40) MOUNTED AT 30' ON A BRUNZE FIBERGLASS POLE, USING A 12' ARM	EXACT LOCATIONS TO BE DETERMINED BY MD, DPW AT TIME OF INSTALLATION

**SUMMARY OF GENERAL STORAGE REQUIREMENTS - D.A. #1B**

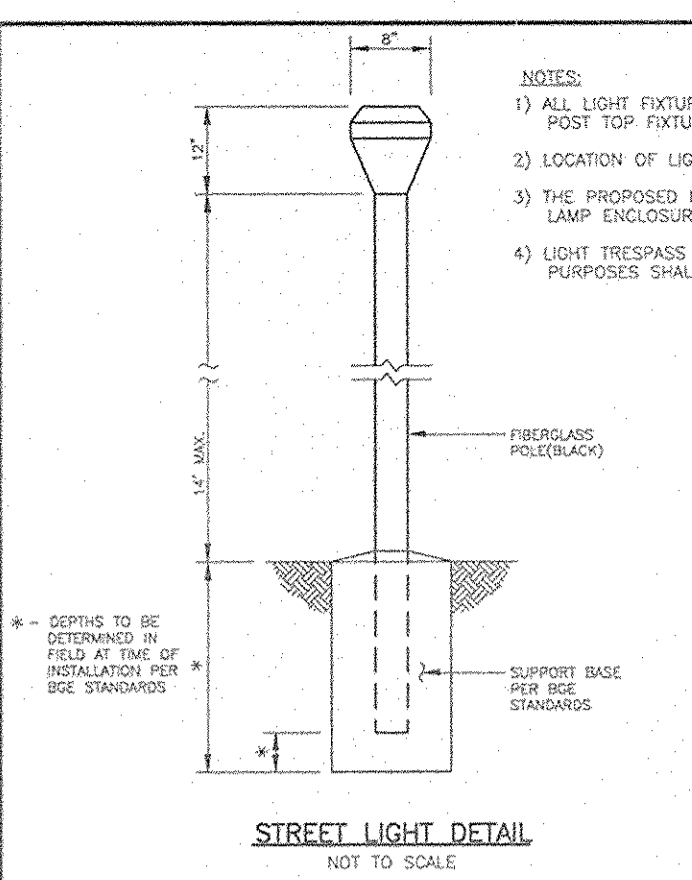
STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQV)	0.0816 (3,554.50 cf)	BIO-RETENTION FACILITY (F-6)
2	RECHARGE VOLUME (REV)	0.0245 (0.2790 ac.)	STONE (REV) CHAMBER BENEATH BIO-RETENTION FACILITY
3	CHANNEL PROTECTION VOLUME (CPV)	N/A	NOT REQUIRED Q1 IS LESS THAN 2.0 cfs
4	OVERBANK FLOOD PROTECTION VOLUME (OPV)	N/A	NOT REQUIRED
5	EXTREME FLOOD VOLUME (EFV)	N/A	NOT REQUIRED

**SUMMARY OF GENERAL STORAGE REQUIREMENTS - D.A. #3**

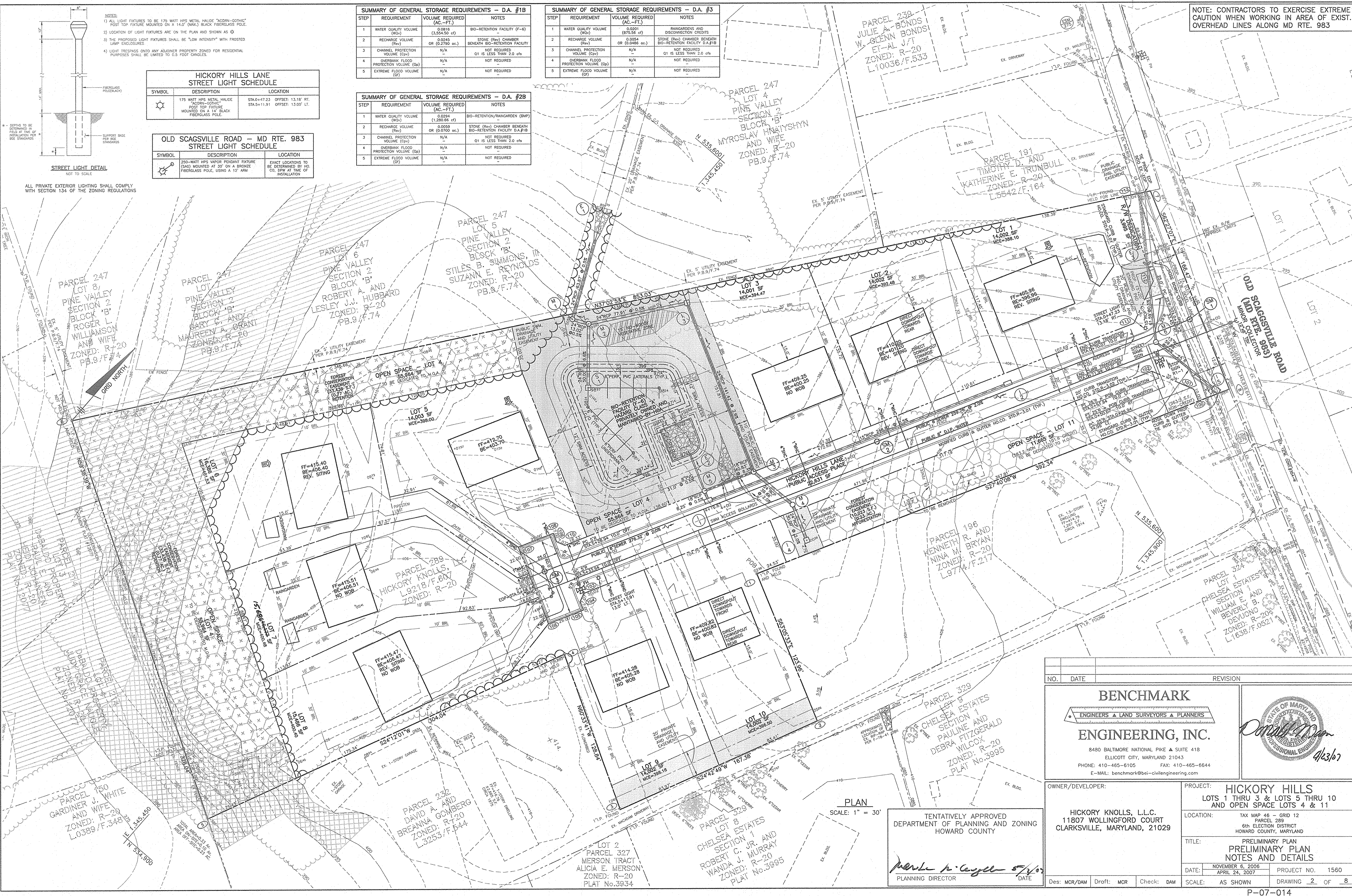
STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQV)	0.0501 (875.38 cf)	RAINGARDENS AND DISCONNECTION CREDITS
2	RECHARGE VOLUME (REV)	0.0054 (0.0486 ac.)	STONE (REV) CHAMBER BENEATH BIO-RETENTION FACILITY D.A.#1B
3	CHANNEL PROTECTION VOLUME (CPV)	N/A	NOT REQUIRED Q1 IS LESS THAN 2.0 cfs
4	OVERBANK FLOOD PROTECTION VOLUME (OPV)	N/A	NOT REQUIRED
5	EXTREME FLOOD VOLUME (EFV)	N/A </td <td>NOT REQUIRED</td>	NOT REQUIRED

**SUMMARY OF GENERAL STORAGE REQUIREMENTS - D.A. #2B**

STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQV)	0.0284 (1,280.66 cf)	BIO-RETENTION/RAINGARDEN (BMP)
2	RECHARGE VOLUME (REV)	0.0059 (0.0700 ac.)	STONE (REV) CHAMBER BENEATH BIO-RETENTION FACILITY D.A.#1B
3	CHANNEL PROTECTION VOLUME (CPV)	N/A	NOT REQUIRED Q1 IS LESS THAN 2.0 cfs
4	OVERBANK FLOOD PROTECTION VOLUME (OPV)	N/A	NOT REQUIRED
5	EXTREME FLOOD VOLUME (EFV)	N/A	NOT REQUIRED



ALL PRIVATE EXTERIOR LIGHTING SHALL COMPLY WITH SECTION 134 OF THE ZONING REGULATIONS



**BENCHMARK ENGINEERS, LAND SURVEYORS & PLANNERS**  
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 ELLICOTT CITY, MARYLAND 21043  
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 E-MAIL: benchmark@bei-civilengineering.com

OWNER/DEVELOPER:	HICKORY KNOLLS, L.L.C. 11807 WOLLINGFORD COURT CLARKSVILLE, MARYLAND, 21029
PROJECT:	HICKORY HILLS LOTS 1 THRU 3 & LOTS 5 THRU 10 AND OPEN SPACE LOTS 4 & 11
LOCATION:	TAX MAP 46 - GRID 12 PARCEL 289 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE:	PRELIMINARY PLAN PRELIMINARY PLAN NOTES AND DETAILS
DATE:	NOVEMBER 6, 2008 APRIL 24, 2007
PROJECT NO.:	1560
SCALE:	AS SHOWN DRAWING 2 OF 8

TENTATIVELY APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY

*Mark R. Cayle*  
 PLANNING DIRECTOR DATE

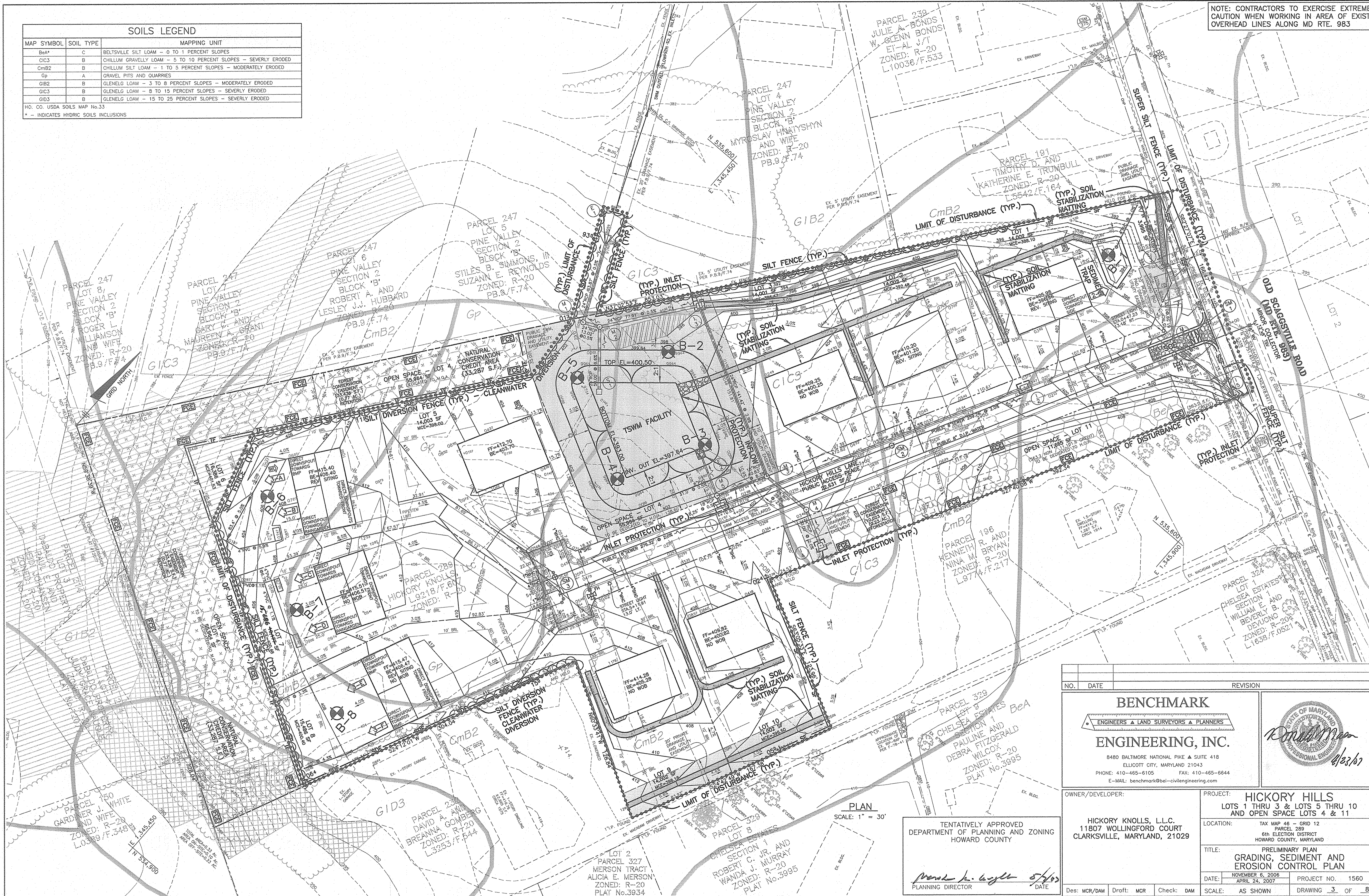
PLAN  
 SCALE: 1" = 30'

NOTE: CONTRACTORS TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG MD RTE. 983

SOILS LEGEND

MAP SYMBOL	SOIL TYPE	MAPPING UNIT
BeA*	C	BELTSVILLE SILT LOAM - 0 TO 1 PERCENT SLOPES
C1C3	B	CHILLUM GRAVELLY LOAM - 5 TO 10 PERCENT SLOPES - SEVERELY ERODED
CmB2	B	CHILLUM SILT LOAM - 1 TO 5 PERCENT SLOPES - MODERATELY ERODED
Gp	A	GRAVEL PITS AND QUARRIES
G1B2	B	GLENELG LOAM - 3 TO 8 PERCENT SLOPES - MODERATELY ERODED
G1C3	B	GLENELG LOAM - 8 TO 15 PERCENT SLOPES - SEVERELY ERODED
G1D3	B	GLENELG LOAM - 15 TO 25 PERCENT SLOPES - SEVERELY ERODED

HO. CO. USDA SOILS MAP No.33  
 \* - INDICATES HYDRIC SOILS INCLUSIONS



TENTATIVELY APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY

*Wanda J. Murray* 5/10/07  
 PLANNING DIRECTOR DATE

NO.	DATE	REVISION

**BENCHMARK**  
 ENGINEERS • LAND SURVEYORS • PLANNERS

**ENGINEERING, INC.**

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*Wanda J. Murray*  
 PROFESSIONAL ENGINEER  
 6/23/07

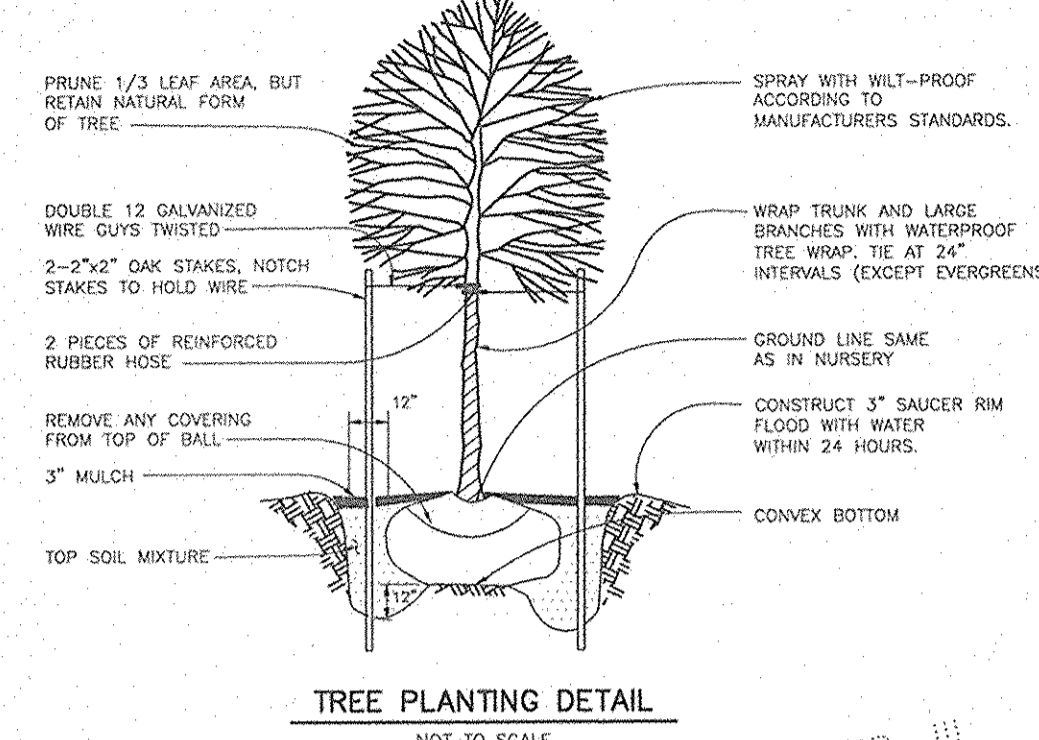
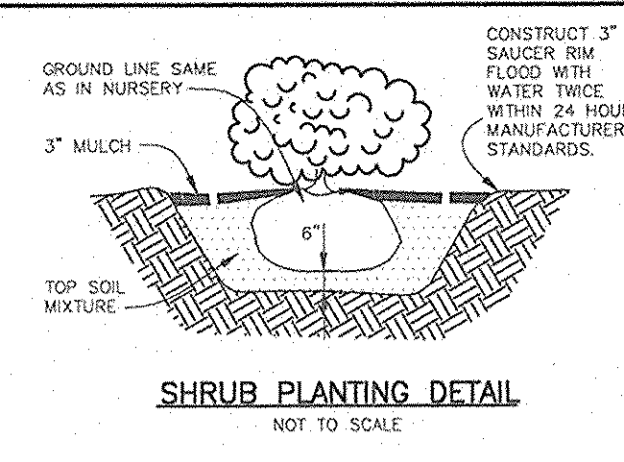
OWNER/DEVELOPER: <b>HICKORY KNOLLS, L.L.C.</b> 11807 WOLLINGFORD COURT CLARKSVILLE, MARYLAND, 21029	PROJECT: <b>HICKORY HILLS</b> LOTS 1 THRU 3 & LOTS 5 THRU 10 AND OPEN SPACE LOTS 4 & 11
LOCATION: TAX MAP 46 - GRID 12 PARCEL 289 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: PRELIMINARY PLAN GRADING, SEDIMENT AND EROSION CONTROL PLAN
DATE: NOVEMBER 6, 2006 APRIL 24, 2007	PROJECT NO. 1560 DRAWING NO. 3 OF 8
Des: MCR/DAM Draft: MCR Check: DAM	SCALE: AS SHOWN

P:\1536 COLLINS.dwg\3023V2-F.dwg, SEC-PLAN, 4/23/2007 2:45:22 PM, mcr

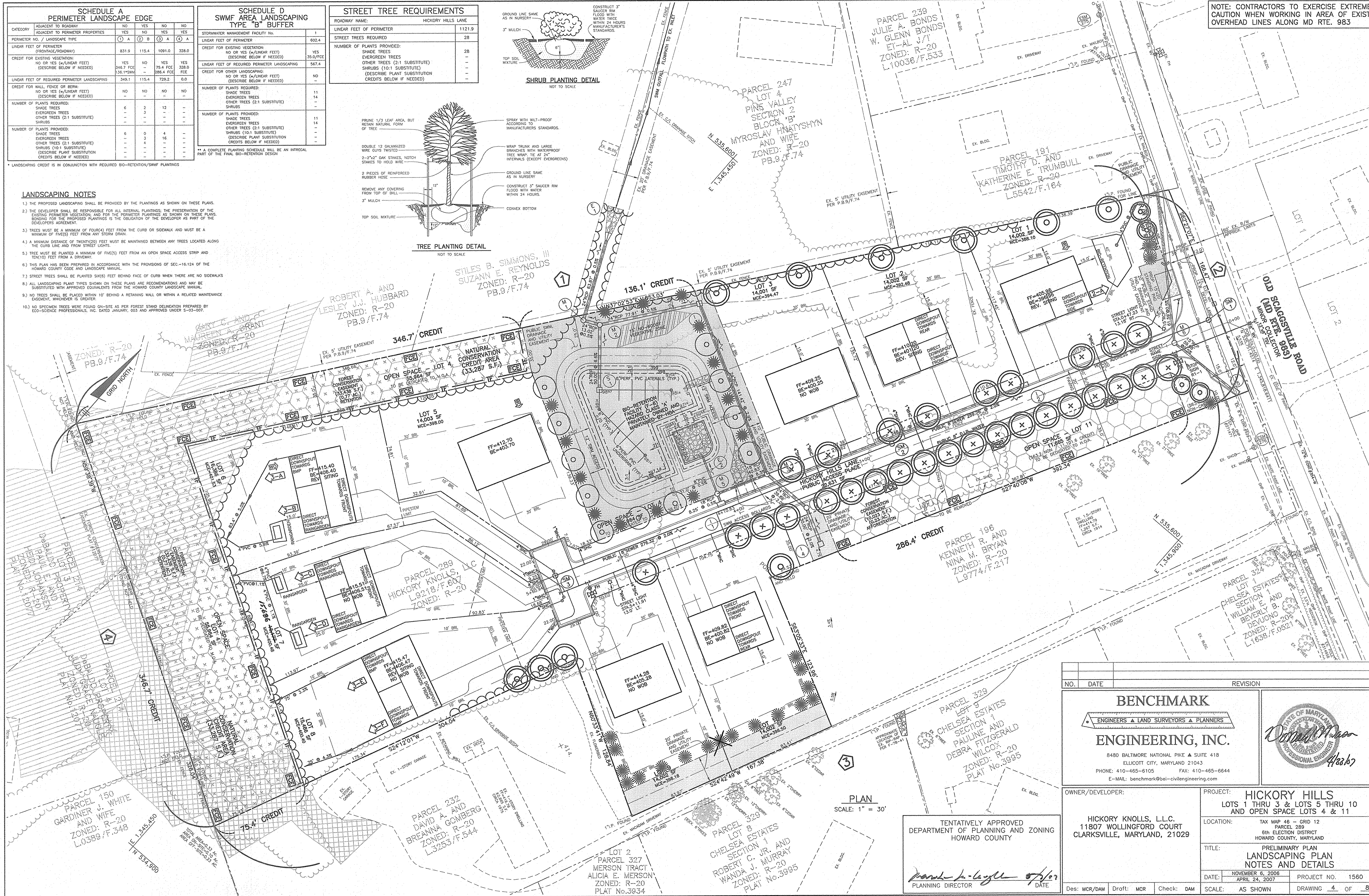
SCHEDULE A PERIMETER LANDSCAPE EDGE				
CATEGORY	ADJACENT TO ROADWAY	NO	YES	NO
ADJACENT TO PERIMETER PROPERTIES	YES	NO	YES	NO
PERIMETER NO. / LANDSCAPE TYPE	① A	② B	③ A	④ A
LINEAR FEET OF PERIMETER (FRONTAGE/ROADWAY)	831.9	115.4	1091.0	328.0
CREDIT FOR EXISTING VEGETATION: NO OR YES (w/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	346.7 FCE 136.1 SWM	---	75.4 FCE 286.4 FCE	---
LINEAR FEET OF REQUIRED PERIMETER LANDSCAPING	349.1	115.4	729.2	0.0
CREDIT FOR WALL, FENCE OR BERM: NO OR YES (w/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	---	---	---	---
NUMBER OF PLANTS PROVIDED:				
SHADE TREES	6	2	12	---
EVERGREEN TREES	---	3	---	---
OTHER TREES (2:1 SUBSTITUTE)	---	---	---	---
SHRUBS	---	4	---	---
NUMBER OF PLANTS REQUIRED:				
SHADE TREES	6	0	4	---
EVERGREEN TREES	---	3	---	---
OTHER TREES (2:1 SUBSTITUTE)	---	---	---	---
SHRUBS (10:1 SUBSTITUTE)	---	---	---	---
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED	---	---	---	---

SCHEDULE D SWMF AREA LANDSCAPING TYPE "B" BUFFER				
CATEGORY	ADJACENT TO ROADWAY	NO	YES	NO
ADJACENT TO PERIMETER PROPERTIES	YES	NO	YES	NO
PERIMETER NO. / LANDSCAPE TYPE	① A	② B	③ A	④ A
LINEAR FEET OF PERIMETER (FRONTAGE/ROADWAY)	831.9	115.4	1091.0	328.0
CREDIT FOR EXISTING VEGETATION: NO OR YES (w/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	346.7 FCE 136.1 SWM	---	75.4 FCE 286.4 FCE	---
LINEAR FEET OF REQUIRED PERIMETER LANDSCAPING	349.1	115.4	729.2	0.0
CREDIT FOR WALL, FENCE OR BERM: NO OR YES (w/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	---	---	---	---
NUMBER OF PLANTS PROVIDED:				
SHADE TREES	6	2	12	---
EVERGREEN TREES	---	3	---	---
OTHER TREES (2:1 SUBSTITUTE)	---	---	---	---
SHRUBS	---	4	---	---
NUMBER OF PLANTS REQUIRED:				
SHADE TREES	6	0	4	---
EVERGREEN TREES	---	3	---	---
OTHER TREES (2:1 SUBSTITUTE)	---	---	---	---
SHRUBS (10:1 SUBSTITUTE)	---	---	---	---
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED	---	---	---	---

STREET TREE REQUIREMENTS	
ROADWAY NAME:	HICKORY HILLS LANE
LINEAR FEET OF PERIMETER	1121.9
STREET TREES REQUIRED	28
NUMBER OF PLANTS PROVIDED:	
SHADE TREES	28
EVERGREEN TREES	---
OTHER TREES (2:1 SUBSTITUTE)	---
SHRUBS (10:1 SUBSTITUTE)	---
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED	---



- LANDSCAPING NOTES**
- 1) THE PROPOSED LANDSCAPING SHALL BE PROVIDED BY THE PLANTINGS AS SHOWN ON THESE PLANS.
  - 2) THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL INTERNAL PLANTINGS, THE PRESERVATION OF THE EXISTING PERIMETER VEGETATION, AND FOR THE PERIMETER PLANTINGS AS SHOWN ON THESE PLANS. BONDING FOR THE PROPOSED PLANTINGS IS THE OBLIGATION OF THE DEVELOPER AS PART OF THE DEVELOPERS AGREEMENT.
  - 3) TREES MUST BE A MINIMUM OF FOUR(4) FEET FROM THE CURB OR SIDEWALK AND MUST BE A MINIMUM OF FIVE(5) FEET FROM ANY STORM DRAIN.
  - 4) A MINIMUM DISTANCE OF TWENTY(20) FEET MUST BE MAINTAINED BETWEEN ANY TREES LOCATED ALONG THE CURB LINE AND FROM STREET LIGHTS.
  - 5) TREE MUST BE PLANTED A MINIMUM OF FIVE(5) FEET FROM AN OPEN SPACE ACCESS STRIP AND TEN(10) FEET FROM A DRIVEWAY.
  - 6) THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SEC.-16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
  - 7) STREET TREES SHALL BE PLANTED SIX(6) FEET BEHIND FACE OF CURB WHEN THERE ARE NO SIDEWALKS.
  - 8) ALL LANDSCAPING PLANT TYPES SHOWN ON THESE PLANS ARE RECOMMENDATIONS AND MAY BE SUBSTITUTED WITH APPROVED EQUIVALENTS FROM THE HOWARD COUNTY LANDSCAPE MANUAL.
  - 9) NO TREES SHALL BE PLACED WITHIN 10' BEHIND A RETAINING WALL OR WITHIN A RELATED MAINTENANCE EASEMENT, WHICHEVER IS GREATER.
  - 10) NO SPECIMEN TREES WERE FOUND ON-SITE AS PER FOREST STAND DELINEATION PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JANUARY, 003 AND APPROVED UNDER S-03-007.



PLAN  
SCALE: 1" = 30'

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*Mark J. Layton*  
PLANNING DIRECTOR DATE

NO. DATE REVISION	
<b>BENCHMARK</b> ENGINEERS & LAND SURVEYORS & PLANNERS	
<b>ENGINEERING, INC.</b>	
8480 BALTIMORE NATIONAL PIKE SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644 E-MAIL: benchmark@bei-civilengineering.com	
OWNER/DEVELOPER:	PROJECT:
HICKORY KNOLLS, L.L.C. 11807 WOLLINGFORD COURT CLARKSVILLE, MARYLAND, 21029	HICKORY HILLS LOTS 1 THRU 3 & LOTS 5 THRU 10 AND OPEN SPACE LOTS 4 & 11
TITLE:	LOCATION:
PRELIMINARY PLAN LANDSCAPING PLAN NOTES AND DETAILS	TAX MAP 46 - GRID 12 PARCEL 289 8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE:	PROJECT NO.:
NOVEMBER 6, 2008 APRIL 24, 2007	1560
SCALE:	DRAWING:
AS SHOWN	4 OF 8

**FOREST CONSERVATION WORKSHEET**  
Version 1.0

Project: Hickory Hills  
Date: January 23, 2007

NET TRACT AREA	Acres
A. Total tract area	5.2
B. Area within 100 Year Floodplain	0
C. Area to remain in agricultural production	0
D. Net Tract Area	5.2

LAND USE CATEGORY (from table 3.2.1, page 40, Manual)	Acres
ARA MDR IDA HDR MPD CIA	0
E. Afforestation Threshold (percentage)	0.16
F. Conservation Threshold (percentage)	0.20

EXISTING FOREST COVER:	Acres
G. Existing Forest Cover (excluding floodplain)	2.5
H. Area of forest above afforestation threshold	1.7
I. Area of forest above conservation threshold	1.5

BREAK EVEN POINT:	Acres
J. Forest retention above threshold with no mitigation	0.3
K. Clearing permitted without mitigation	1.3

PROPOSED FOREST CLEARING	Acres
L. Total area of forest to be Cleared or Retained Outside FCE	1.7
M. Total area of forest to be Retained in FCE	0.8

PLANTING REQUIREMENTS	Acres
N. Reforestation for clearing above Conservation Threshold	0.4
O. Reforestation for clearing below Conservation Threshold	0.4
P. Credit for retention above conservation threshold	0
R. Total reforestation required	0.8
S. Total afforestation required	0
T. Total reforestation and afforestation required	0.8

**PLANTING SCHEDULE**

FCE - Open Space Lot 11 - 0.23 acres  
Planting Units Required: 161  
Planting Units Provided: 166.5

Qty	Species	Size	Spacing	Total FCA Units
5	Acer rubrum - Red maple	1" cal.	15' o.c.	15
8	Liriodendron tulipifera - Tulip poplar	1" cal.	15' o.c.	15
6	Quercus alba - White oak	1" cal.	15' o.c.	15
100	Total 1" Caliper trees = 55 units/acre FCA unit credit			66.5
10	Acer rubrum - Red maple	2-3" whip	11' o.c.	11
10	Liriodendron tulipifera - Tulip poplar	2-3" whip	11' o.c.	11
10	Prunus serotina - Black cherry	2-3" whip	11' o.c.	11
10	Quercus alba - White oak	2-3" whip	11' o.c.	11
10	Viburnum prunifolium - Blackhaw	2-3" whip	11' o.c.	11
60	Total whip plantings = 2 units/acre = FCA unit credit			100
Total Unit Credit				166.5

**Planting Notes:**

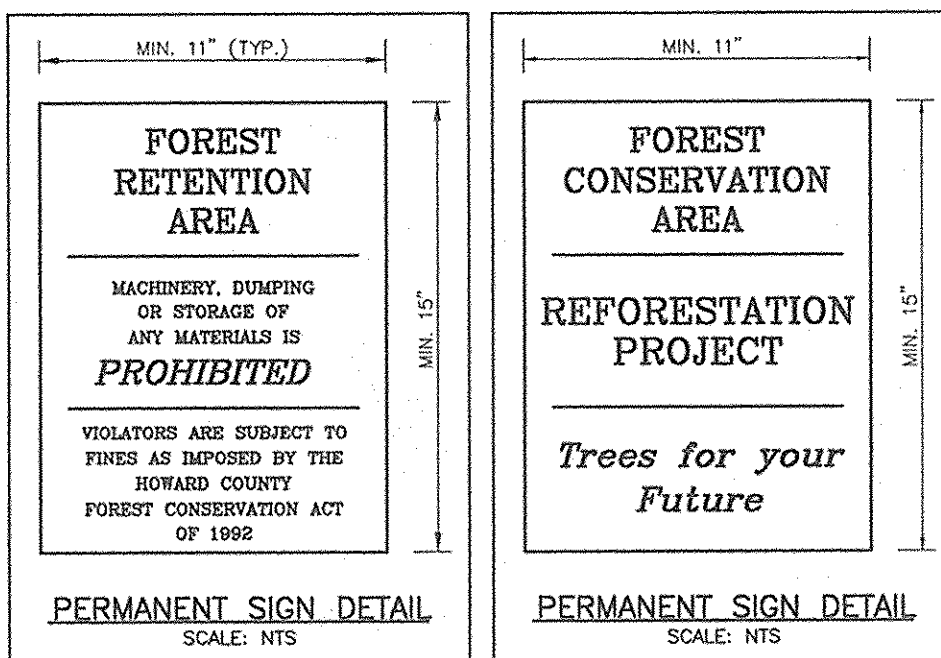
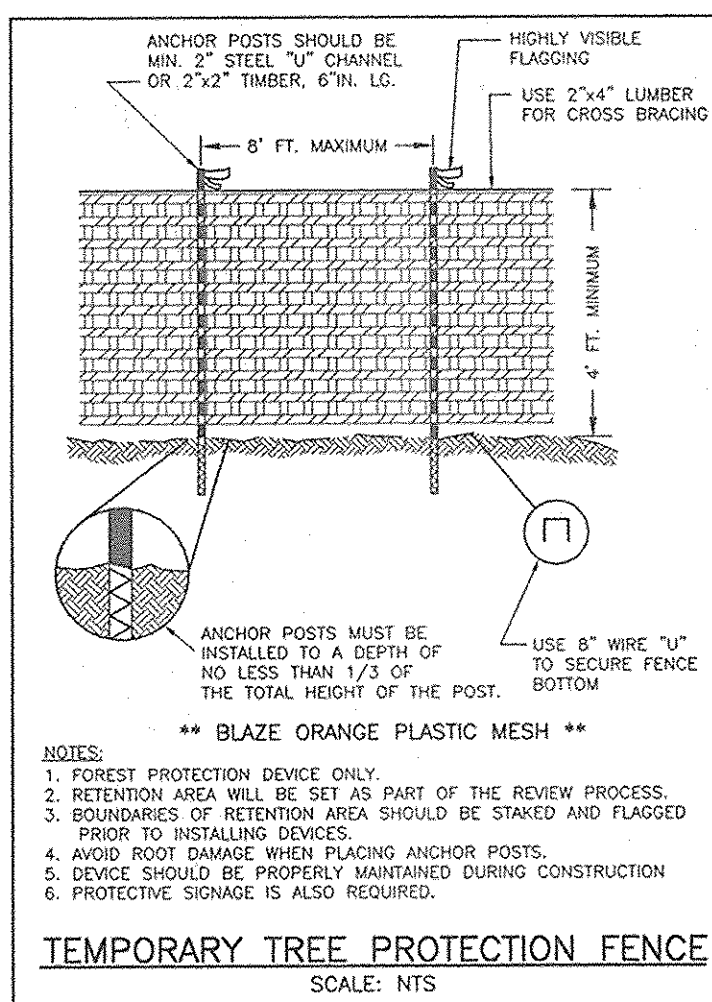
- Planting density based on 700 planting units per acre. 2" caliper trees = 7 planting units, 1" caliper trees = 3.5 planting units, whips with shelter = 2 planting units.
- 1" caliper trees should be staggered along the outer perimeter of the planting area to serve as demarcation of the boundary. The trees should be no closer than 16 foot spacing.
- Planting shall be made in a curvilinear fashion along contour. The planting should avoid a grid appearance but should be spaced to facilitate maintenance.
- Mulch/rosemary brush removal/control may be required prior to installation of planting.
- All whips are required to be installed with tree shelters per Howard County FCA requirements.

**SEQUENCE OF CONSTRUCTION**

- SEEDMENT CONTROL AND TREE PROTECTION DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH GENERAL CONSTRUCTION PLAN FOR THIS SITE. SITE SHALL BE GRADED IN ACCORDANCE WITH THE GENERAL CONSTRUCTION PLANS.
- REMOVE HAZARDOUS TREES (DEAD, DISEASED OR THOSE SUBJECT TO WIND THROWS) ALONG THE EDGE OF THE FOREST RETENTION AREA, AS WELL AS WITHIN OTHER TREE SAVE AREAS.
- SIGNAGE SHALL BE INSTALLED AS PER THE FOREST PROTECTION DEVICES SHOWN ON THE FOREST CONSERVATION PLAN.

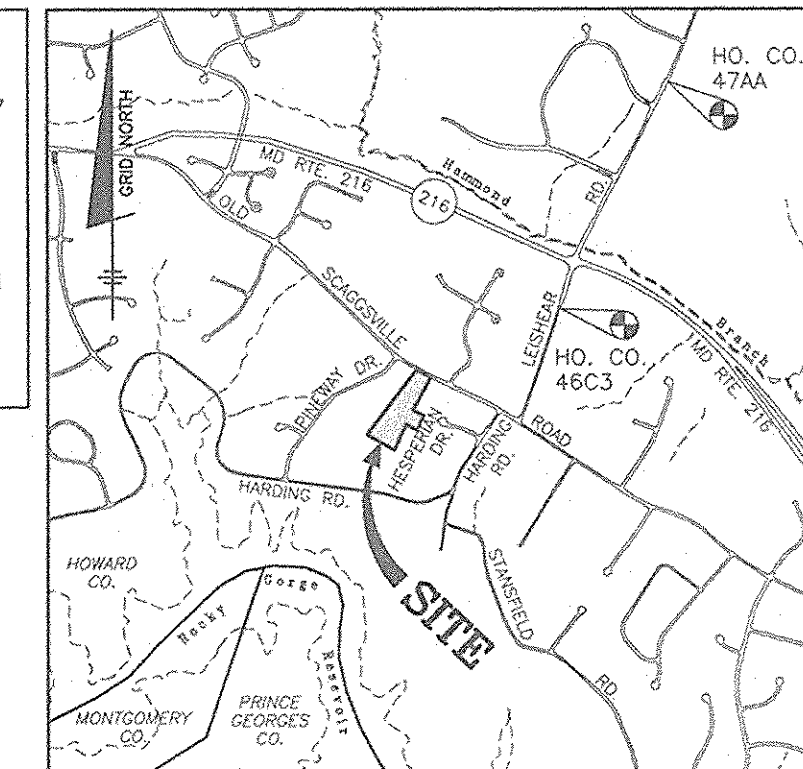
**FCFP NOTES**

- Any Forest Conservation Easement (FCE) area shown hereon is subject to protective covenants which may be found in the Land Records of Howard County which restrict the disturbance and use of these areas.
- Forested areas occurring outside of the FCE shall not be considered part of the FCE and shall not be subject to protective land covenants.
- Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the FCE boundary, whichever is greater.
- There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Easement, except as permitted by Howard County DPZ.
- No stockpiles, parking areas, equipment cleaning areas, etc. shall occur within areas designated as Forest Conservation Easements.
- Temporary fencing shall be used to protect the specimen trees during construction. Fencing shall be installed along limits of disturbance occurring within 50 feet of the specimen trees to be retained. Permanent signage will be posted at a 50-100 foot intervals along all FCE limits.
- THE FOREST CONSERVATION ACT REQUIREMENTS FOR THIS PROJECT HAS BEEN CALCULATED TO BE 0.8 AC. OF ON-SITE RETENTION AND 0.8 AC. OF REFORESTATION. THE REFORESTATION OBLIGATION WILL BE MET BY 0.23 AC. OF ON-SITE PLANTINGS. THE DEVELOPER WILL SEEK A SUITABLE OFF-SITE LOCATION TO SATISFY THE REMAINDER OF THE REFORESTATION OBLIGATION. PAYMENT INTO THE COUNTY'S PROGRAM WILL BE APPROVED BY DPZ IF NO SUITABLE LOCATIONS ARE FOUND.



**BENCH MARKS - NAD '83**

HO. CO. #46C3 N=537,405.865 E=1,347,556.237 STAMPED DISC ON CONC. MONUMENT 25.1' NW FROM EX. FH ALONG W. EDGE OF LEISHAR ROAD; 30.0' FROM EOP; 400' NE FROM INT. OF MD RTE. 216	EL=334.488
HO. CO. #47AA N=580,648.904 E=1,364,974.471 109.4' N FROM BGE POLE #218165; 262.5' S FROM INT. GREAUCH RD; 22.4' E FROM C/L LEISHAR ROAD	EL=363.428



**LEGEND**

SOILS CLASSIFICATION	Symbol
SOILS DELINEATION	---
EXISTING CONTOURS	---
PROPOSED CONTOURS	---
EXISTING WOODS LINE	---
PROPOSED WOODS LINE	---
EXISTING STRUCTURE	---
PROPOSED STRUCTURE	---
STEP SLOPES 15% TO 24.9%	---
STEP SLOPES 25% OR GREATER	---
PROP. PUBLIC DRAINAGE AND UTILITY EASEMENT	---
PROP. PRIVATE DRAINAGE AND UTILITY EASEMENT	---
NON-CREDITED OPEN SPACE	---
PROP. NATURAL CONSERVATION AREA	---
SWM 15' NO-WOODY VEGETATION ZONE	---
PROP. FOREST CONSERVATION AREA	---
TREE PROTECTION FENCE	---
FCE PERMANENT SIGNAGE	---

**FOREST DATA**

GROSS AREA (INCL. ALL PROP. LOTS)	5.2 AC.
100 YEAR FLOOD PLAIN	0.00 AC.
EX. APPLICABLE LOT AREA	0.00 AC.
NET TRACT AREA (NTA)	5.2 AC.
EXISTING FOREST (IFA)	2.5 AC.
AFFORESTATION THRESHOLD	0.8 AC.
REFORESTATION THRESHOLD	1.0 AC.
FOREST TO BE CLEARED (NTA)	1.6 AC.
FOREST TO BE RETAINED (NTA)	0.8 AC.
FOREST TO BE PLANTED (OTA)	0.23 AC.
FOREST TO BE RETAINED IN FCE	0.8 AC.
FOREST TO BE PLANTED IN FCE	0.23 AC.

**FOREST CONSERVATION TABULATION**

DESIGNATION:	TYPE:	ACRES:
1	RETENTION	0.8 (5.2 NTA)
2	PLANTINGS	0.23 (5.2 NTA)
TOTALS:		1.03 AC.

**SOILS LEGEND**

MAP SYMBOL	SOIL TYPE	MAPPING UNIT
Bm*	C	BELTSVILLE SILT LOAM - 0 TO 1 PERCENT SLOPES
C1C3	B	CHILLUM GRAVELLY LOAM - 5 TO 10 PERCENT SLOPES - SEVERELY ERODED
CmB2	B	CHILLUM SILT LOAM - 5 TO 10 PERCENT SLOPES - MODERATELY ERODED
G1C2	A	GRAVEL PITS AND QUARRIES - MODERATELY ERODED
G1C3	B	GLENELG LOAM - 3 TO 8 PERCENT SLOPES - MODERATELY ERODED
G1C3	B	GLENELG LOAM - 8 TO 15 PERCENT SLOPES - SEVERELY ERODED
G1C3	B	GLENELG LOAM - 15 TO 25 PERCENT SLOPES - SEVERELY ERODED

HO. CO. USDA SOILS MAP No.33  
\* - INDICATES HYDRIC SOILS INCLUSIONS

**SITE DATA TABULATION**

- GENERAL SITE DATA
  - a. PRESENT ZONING: R-20
  - b. LOCATION: TAX MAP 46 - GRID 12 - PARCEL 289
  - c. APPLICABLE DPZ FILE REFERENCES: S-03-007
  - d. DEED REFERENCE: L9218 / F.607
  - e. PROPOSED USE OF SITE: 9 SFD HOMES; 2 OPEN SPACE LOTS
  - f. PROPOSED WATER AND SEWER SYSTEMS: PUBLIC
- AREA TABULATION
  - a. TOTAL AREA OF SITE: 5.18 AC.
  - b. AREA OF 100 YEAR FLOODPLAIN (APPROX.): N/A
  - c. AREA OF STEEP SLOPES (25% OR GREATER): 0.10 AC.
  - d. NET AREA OF SITE: 5.08 AC.
  - e. AREA OF THIS PLAN SUBMISSION: 5.18 AC.
  - f. LIMIT OF DISTURBANCE (APPROX.): 4.4 AC.
  - g. AREA OF PROPOSED BUILDABLE LOTS: 3.01 AC.
  - h. AREA OF OPEN SPACE LOTS: 1.56 AC.
  - i. AREA OF PROPOSED PUBLIC ROAD: 0.61 AC.
  - j. AREA OF PROPOSED PUBLIC R/W DEDICATION: 0.61 AC.

NO.	DATE	REVISION

**BENCHMARK**  
ENGINEERS • LAND SURVEYORS • PLANNERS

**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE • SUITE 418  
ELICOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
E-MAIL: benchmark@bel-civilengineering.com

*Donald Moore*  
4/23/07

OWNER/DEVELOPER: HICKORY HILLS  
PROJECT: HICKORY HILLS  
LOTS 1 THRU 3 & LOTS 5 THRU 10 AND OPEN SPACE LOTS 4 & 11  
LOCATION: TAX MAP 46 - GRID 12 PARCEL 289  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
TITLE: PRELIMINARY PLAN  
FOREST CONSERVATION PLAN NOTES AND DETAILS  
DATE: NOVEMBER 6, 2006 PROJECT NO. 1560  
APRIL 24, 2007 DRAWING 5 OF 8  
SCALE: AS SHOWN DRAWING 5 OF 8

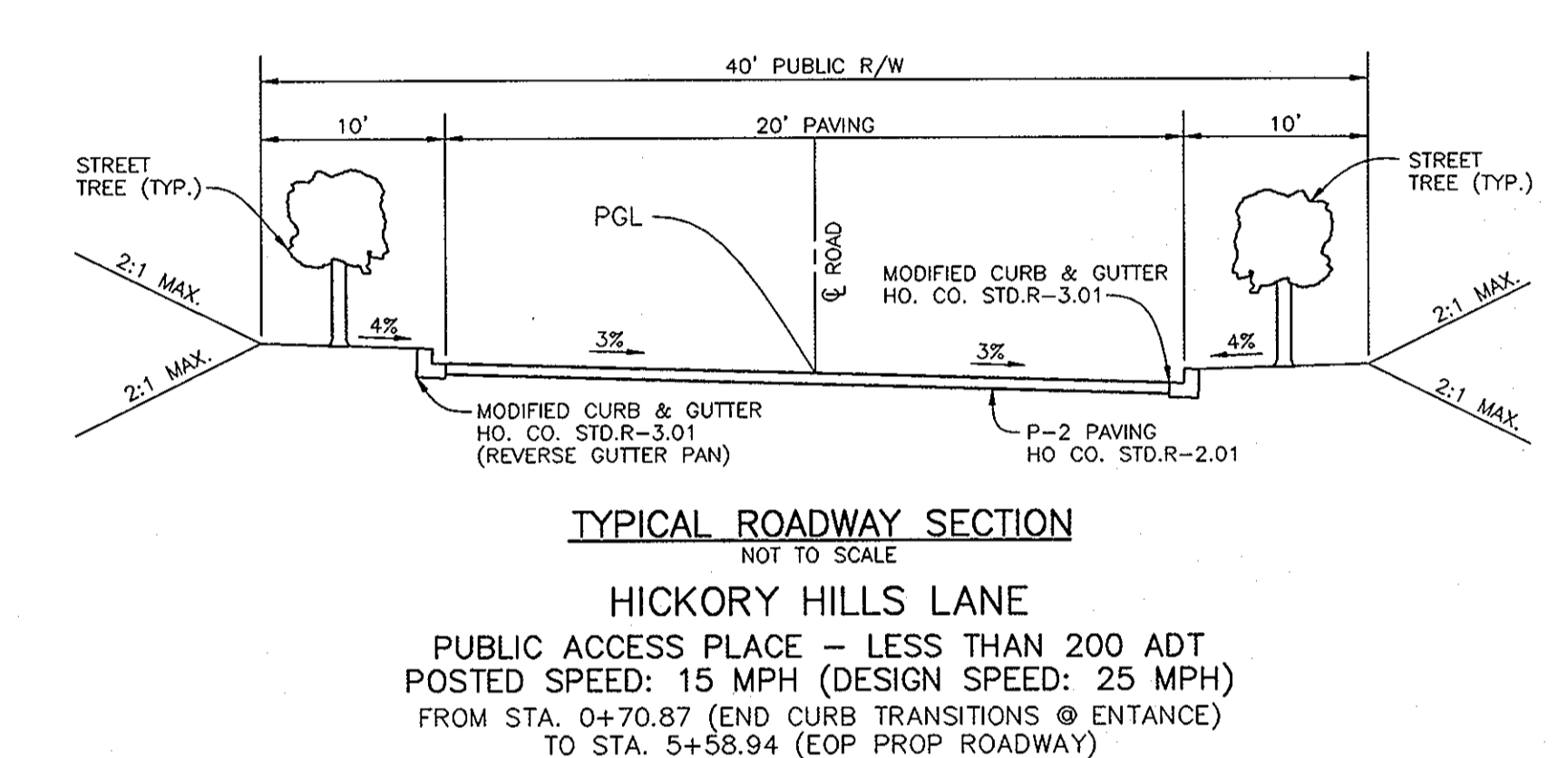
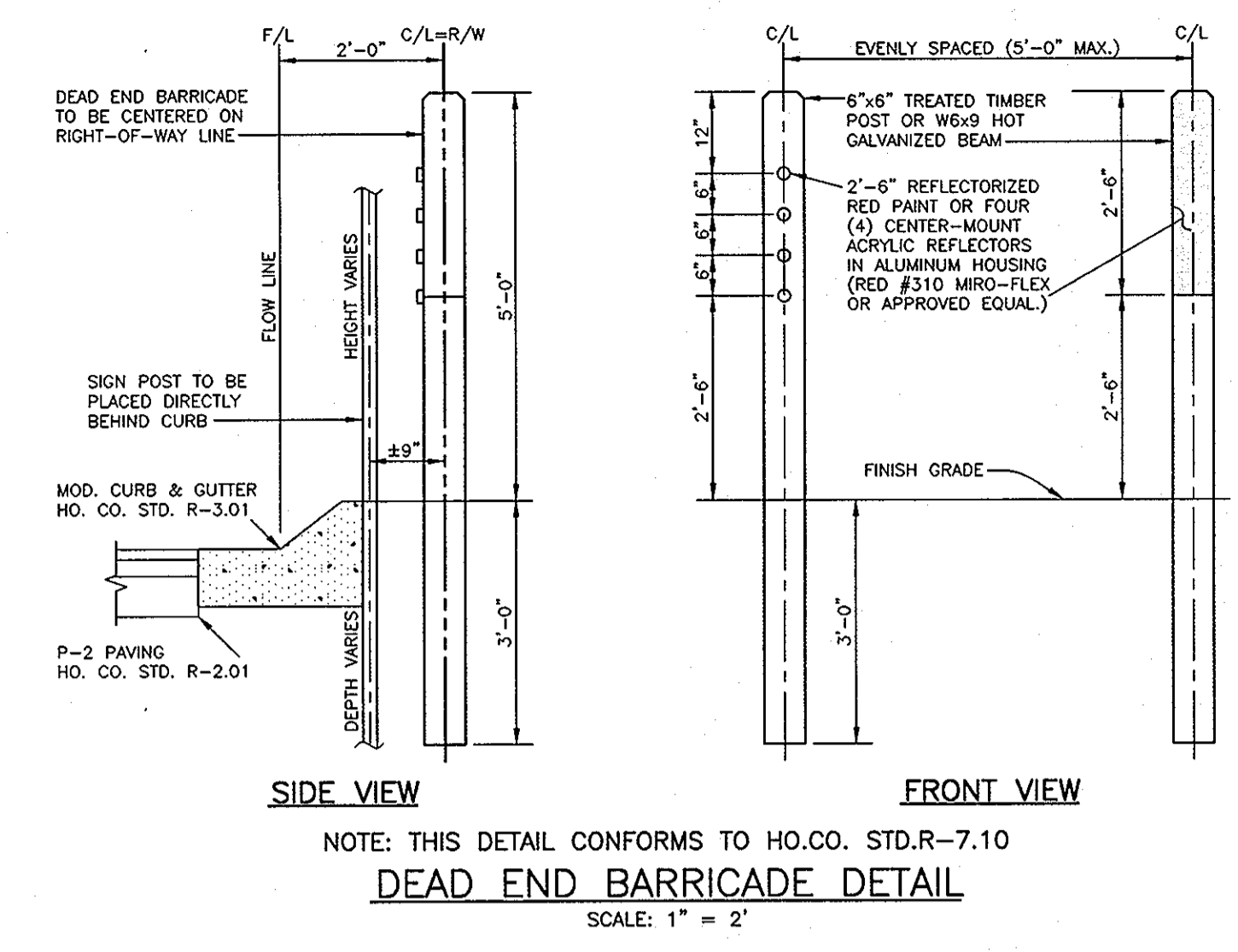
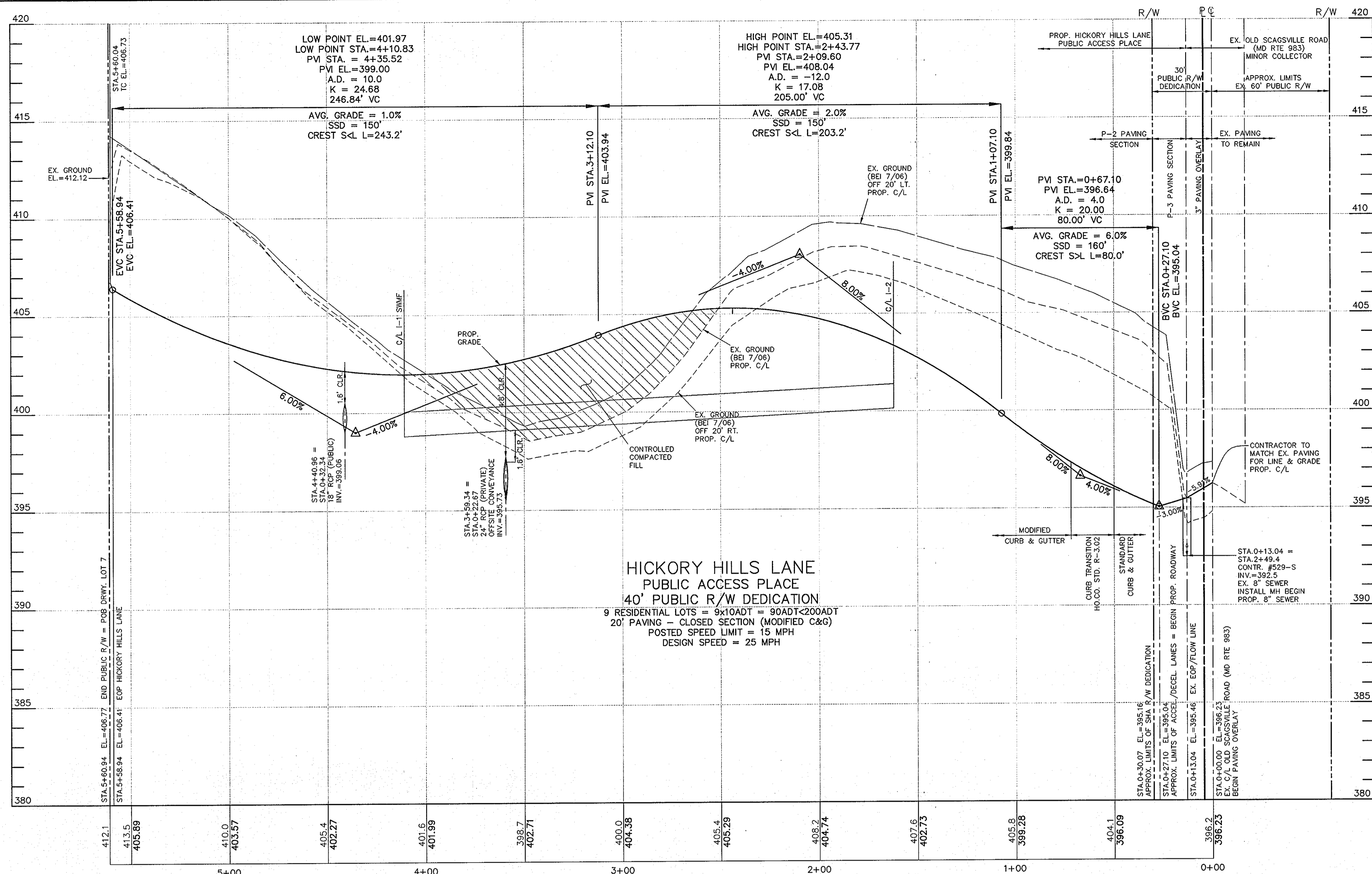
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**PLAN**  
SCALE: 1" = 40'

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*Handwritten Signature*  
PLANNING DIRECTOR DATE

Eco-Science Professionals, Inc.  
CONSULTING EC01021878  
P.O. Box 5036 Glen Arm, MD 21057 (410) 592-4752

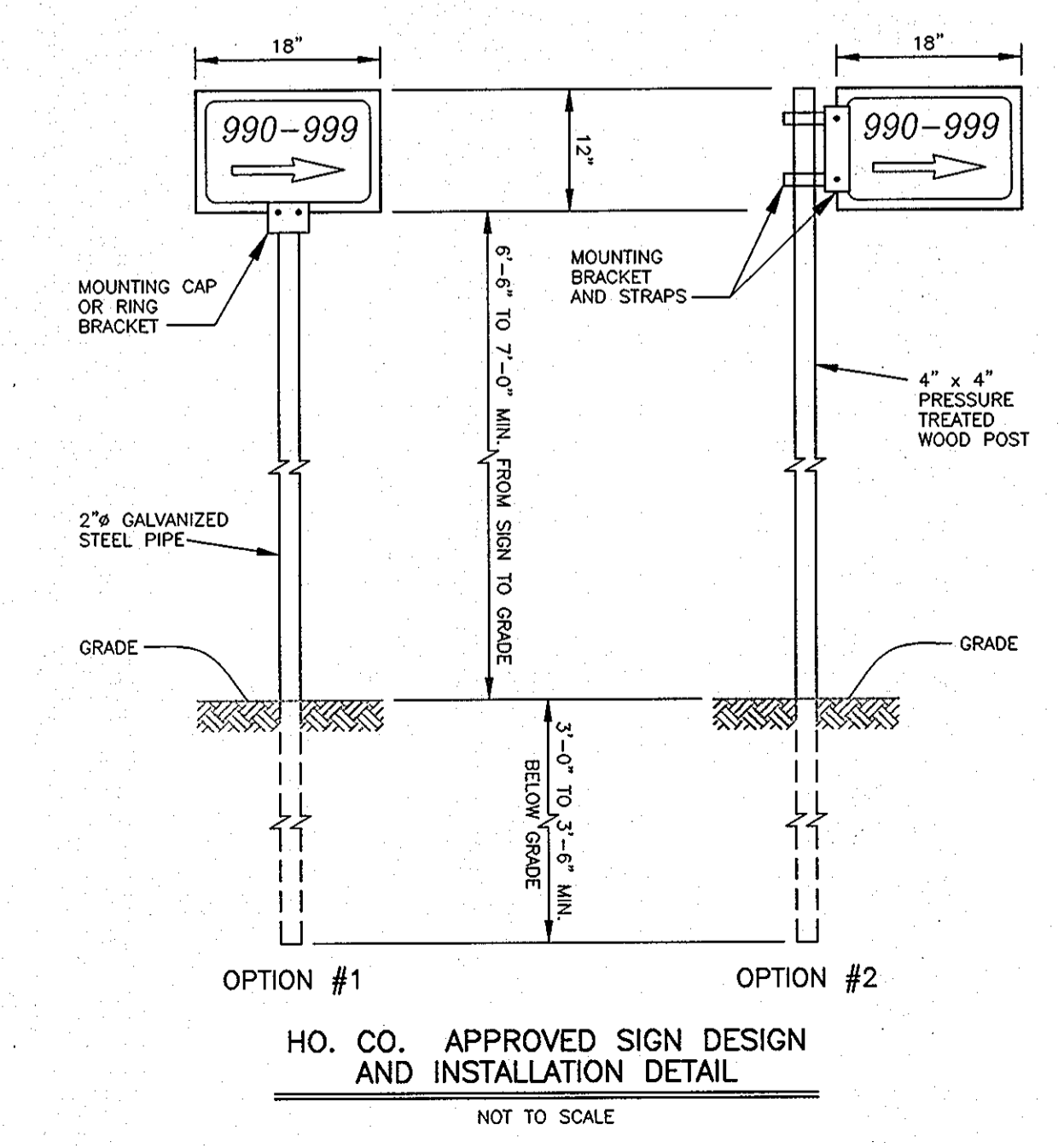
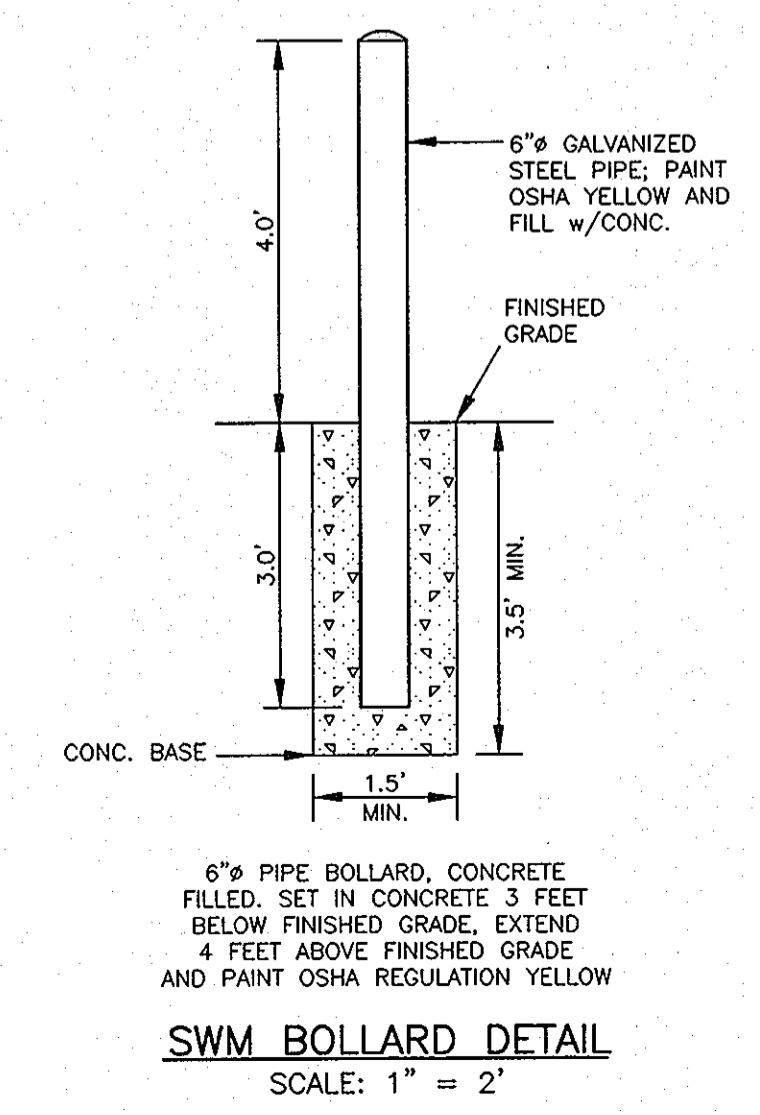
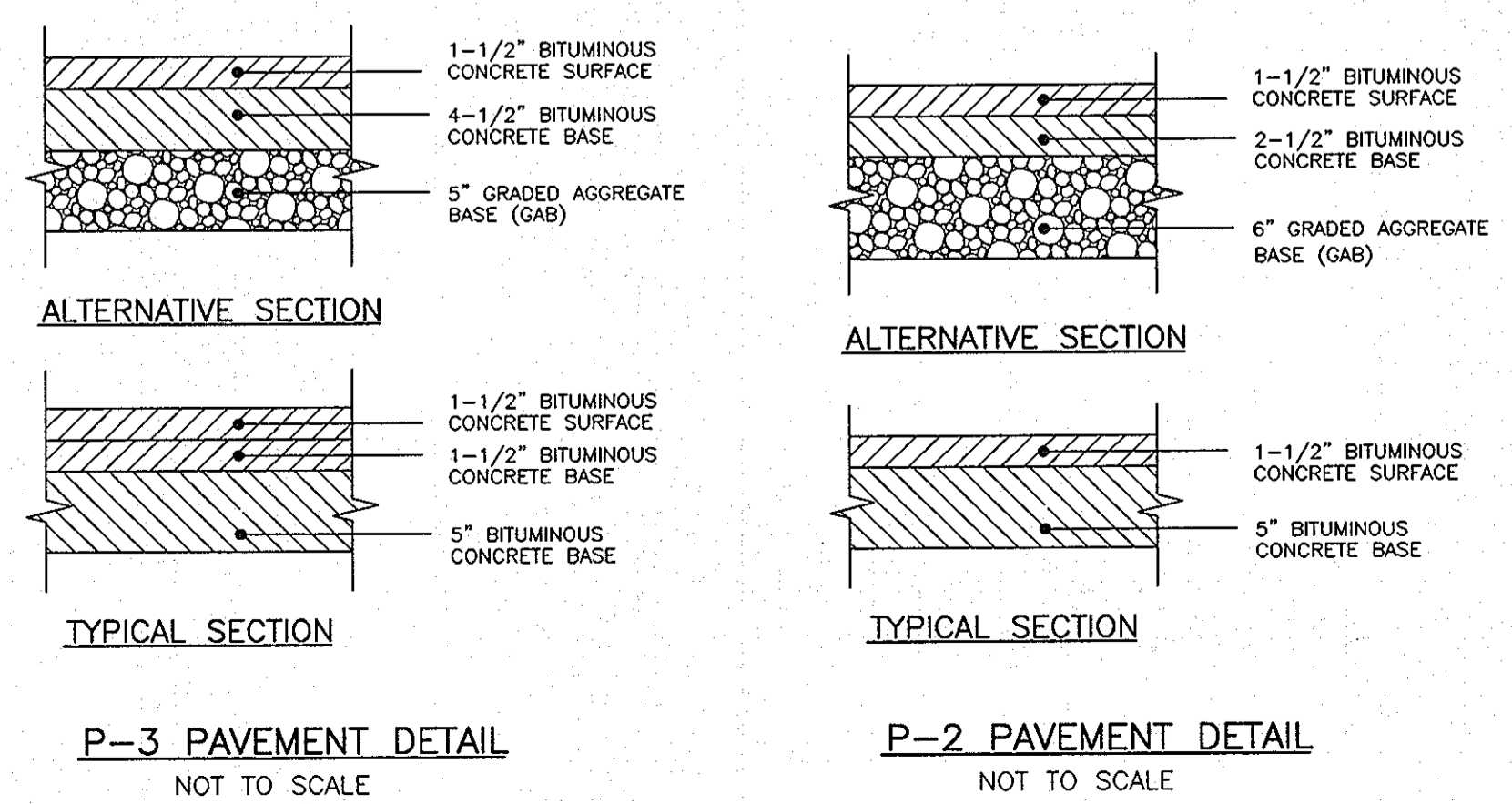


**CENTERLINE CONTROL DATA - BEARINGS**

DESCRIPTION	STATIONS	BEARING	DISTANCE
POB - END	0+00.00 - 5+60.94	S27°40'08"W	560.94'

**CENTERLINE CONTROL DATA - COORDINATES**

DESCRIPTION	STATION	NORTH	EAST
POB = EX. C/L 983	0+00.00	535,751.45	1,345,818.84
END = END PUBLIC R/W	5+60.94	535,254.6609	1,345,558.1840



NOTE: CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG CEDAR LANE

TENTATIVELY APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY

*David A. Lytle* 5/1/07  
 PLANNING DIRECTOR DATE

**BENCHMARK ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 PHONE: 410-465-6105 FAX: 410-465-6644  
 E-MAIL: benchmark@bei-civilengineering.com

**PROFESSIONAL ENGINEER**  
 STATE OF MARYLAND  
 LICENSE NO. 174262

**OWNER/DEVELOPER:** HICKORY KNOLLS, L.L.C.  
 11807 WOLLINGFORD COURT  
 CLARKSVILLE, MARYLAND, 21029

**PROJECT:** HICKORY HILLS  
 LOTS 1 THRU 3 & LOTS 5 THRU 10  
 AND OPEN SPACE LOTS 4 & 11

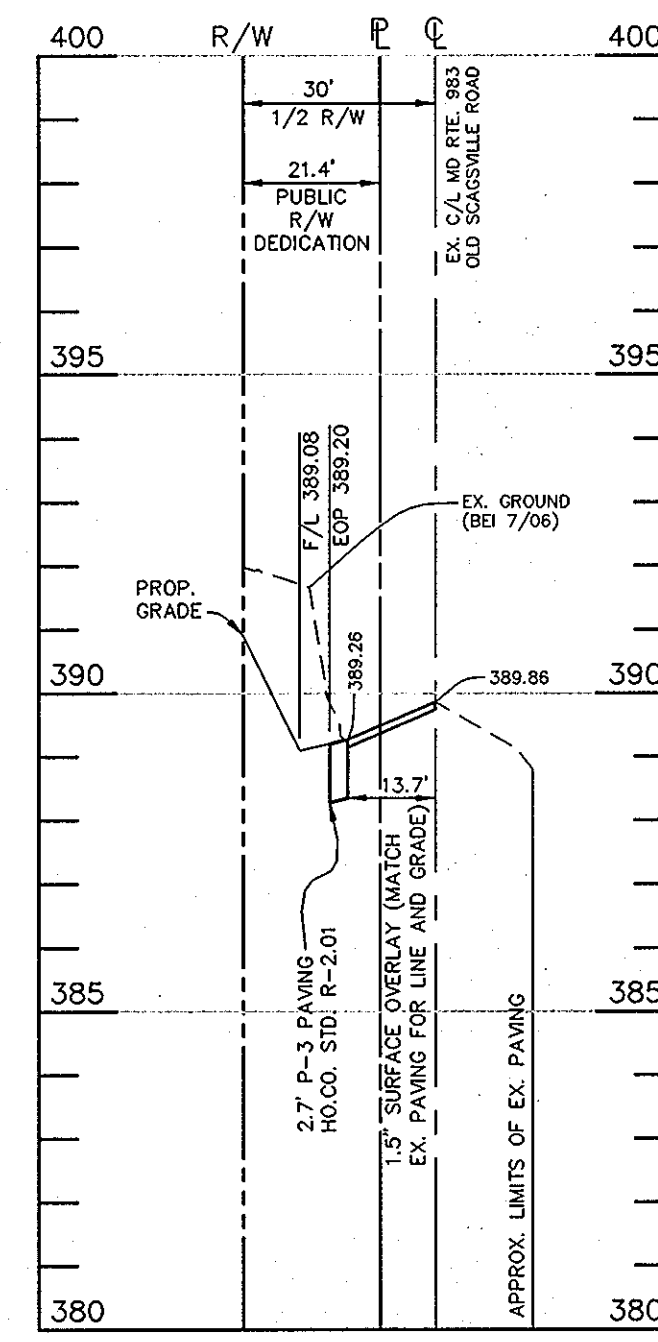
**LOCATION:** TAX MAP 46 - GRID 12  
 PARCEL 289  
 6th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**TITLE:** PRELIMINARY PLAN  
 ROADWAY PROFILE  
 NOTES AND DETAILS

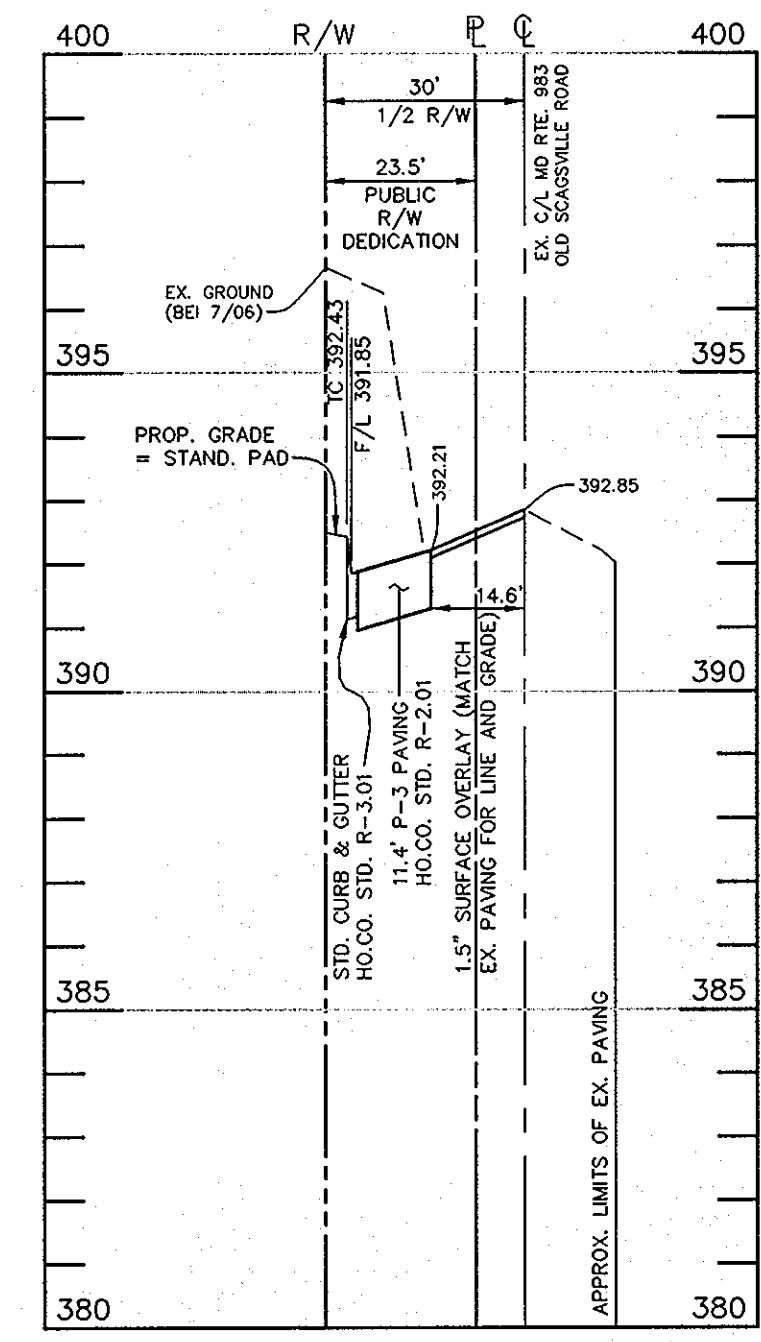
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 APRIL 24, 2007

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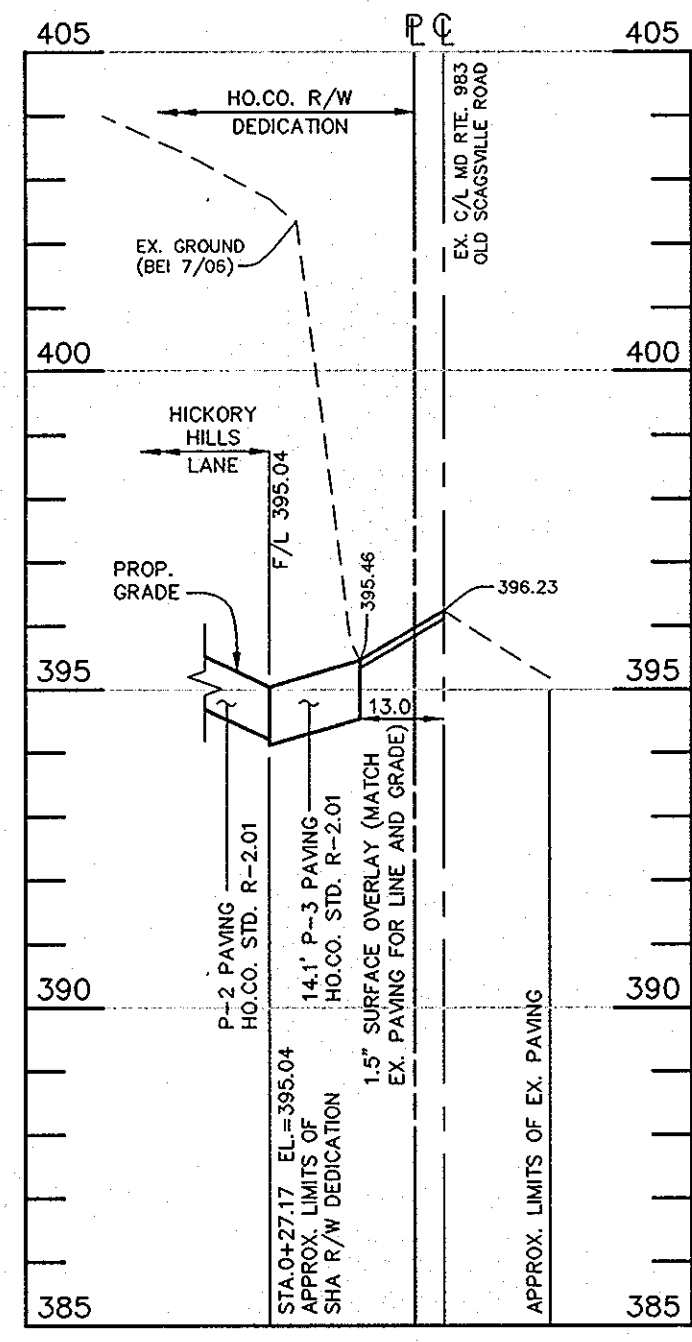
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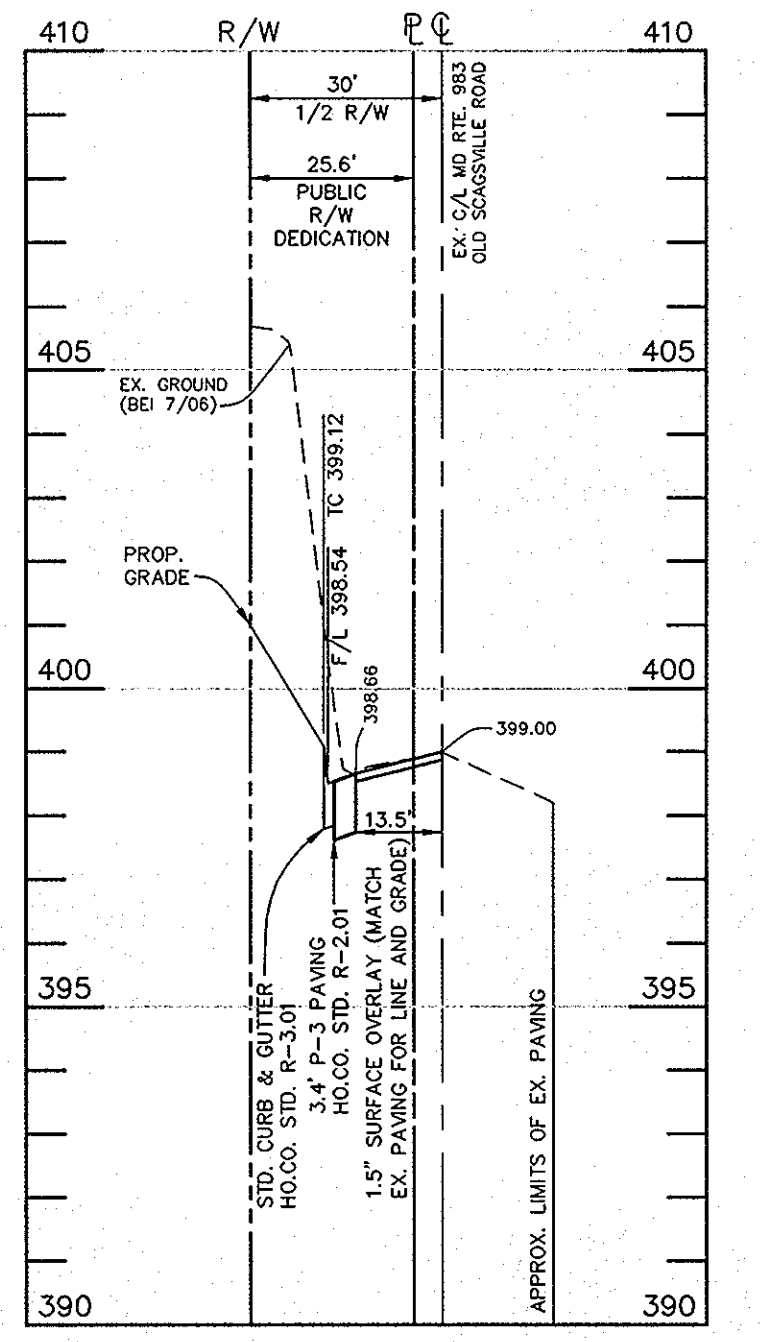
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VERTICAL SCALE: 1" = 3'



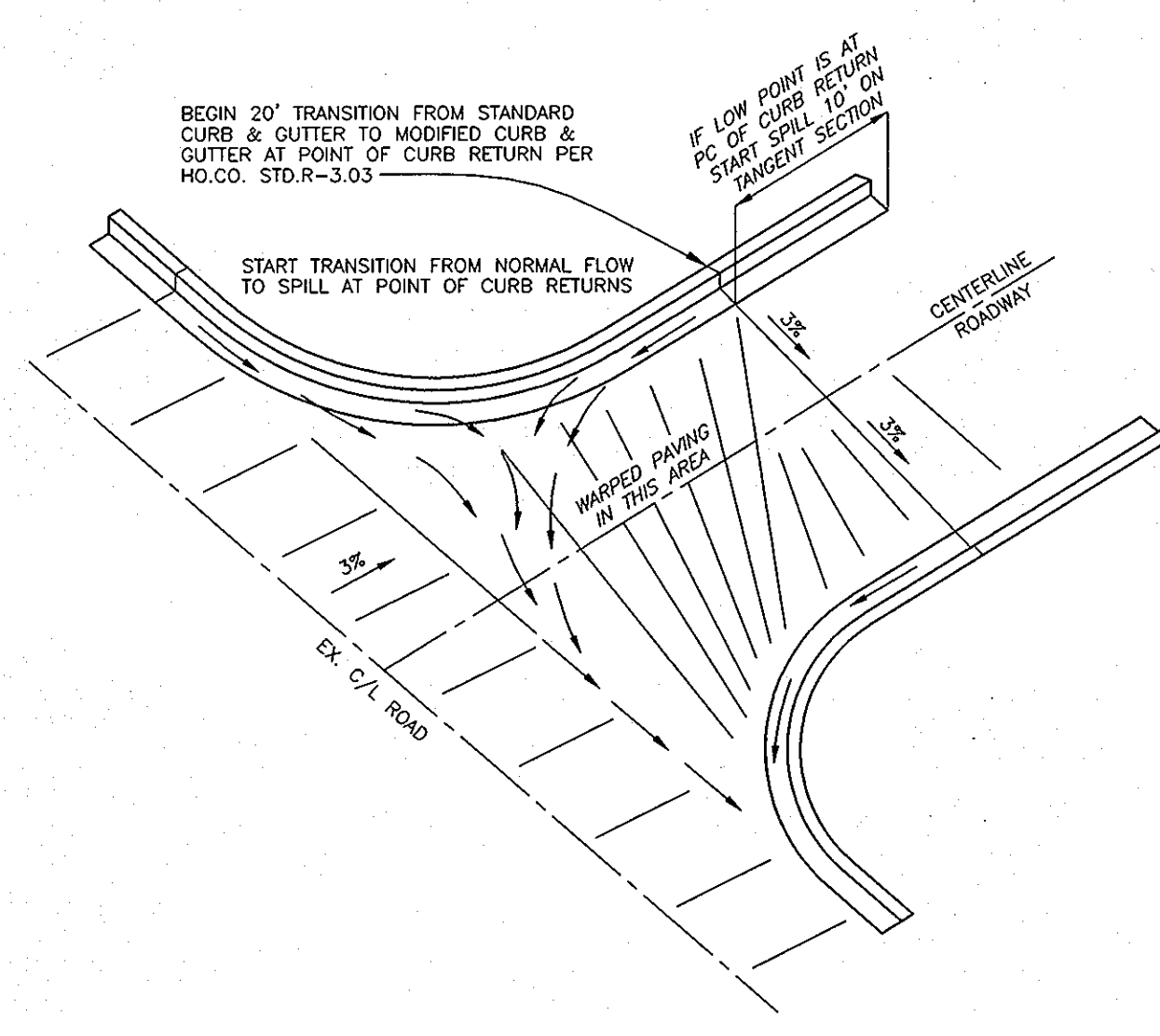
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VERTICAL SCALE: 1" = 3'



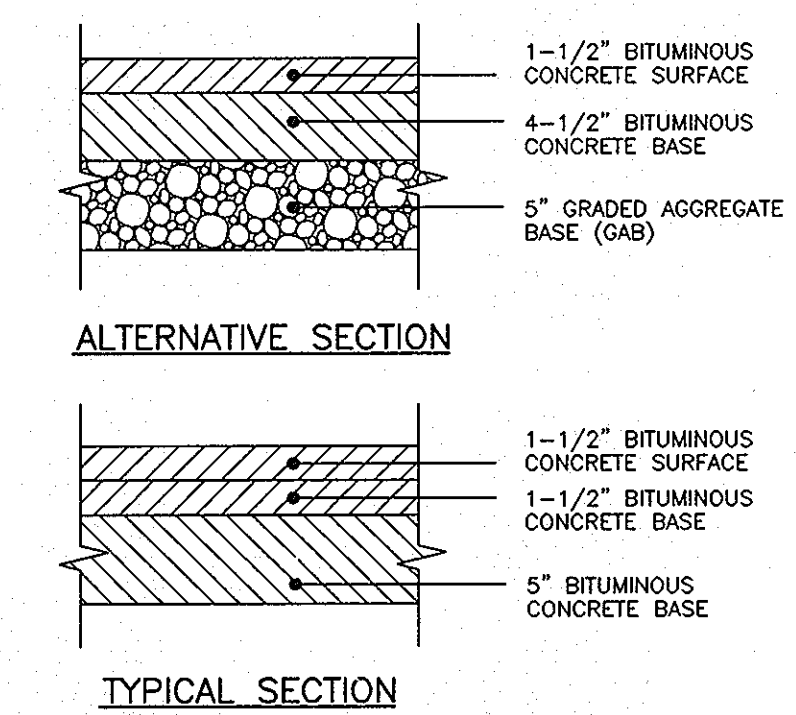
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VERTICAL SCALE: 1" = 3'



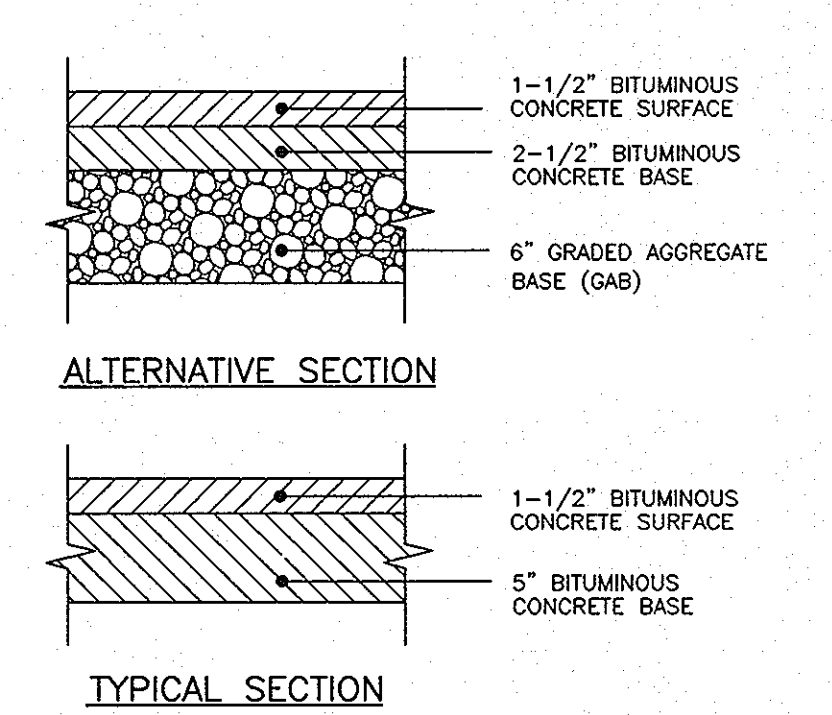
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VERTICAL SCALE: 1" = 3'



**TYPICAL INTERSECTION DRAINAGE DETAIL**  
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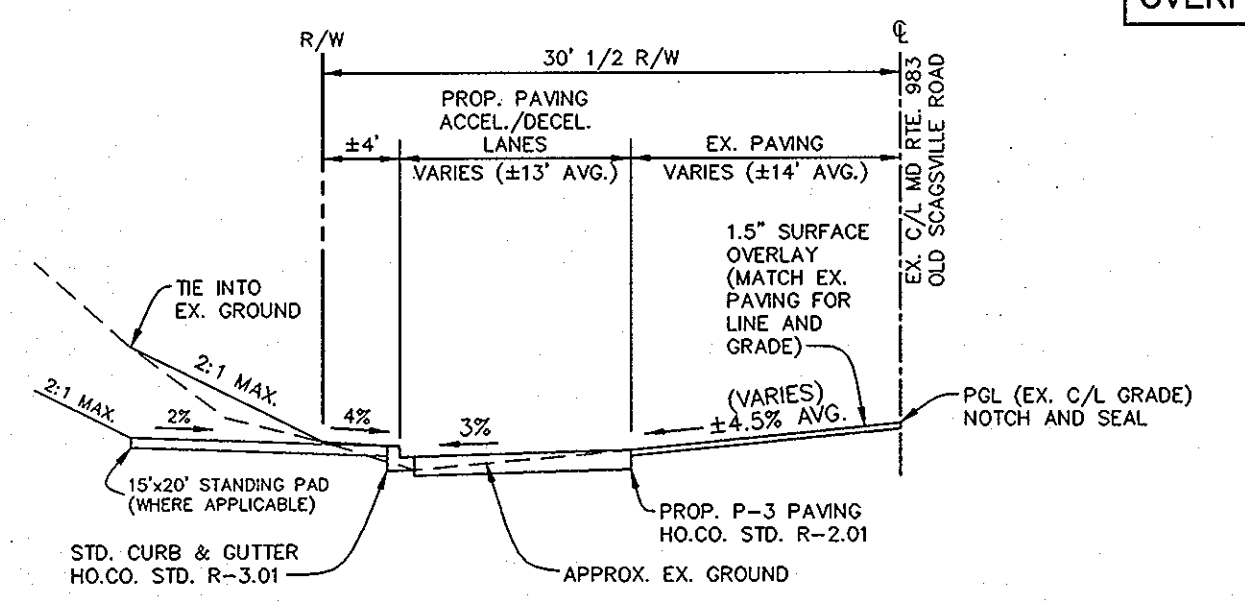


**P-3 PAVEMENT DETAIL**  
NOT TO SCALE



**P-2 PAVEMENT DETAIL**  
NOT TO SCALE

NOTE: CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG CEDAR LANE



**TYPICAL SECTION - PAVEMENT WIDENING**  
NOT TO SCALE

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY  
*Paul L. Weger* 5/16/07  
PLANNING DIRECTOR DATE

NO.	DATE	REVISION

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS • LAND SURVEYORS • PLANNERS  
8480 BALTIMORE NATIONAL PIKE & SUITE 418  
ELLICOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
E-MAIL: benchmark@bei-civilengineering.com

OWNER/DEVELOPER: HICKORY KNOLLS, L.L.C.  
11807 WOLLINGFORD COURT  
CLARKSVILLE, MARYLAND, 21029

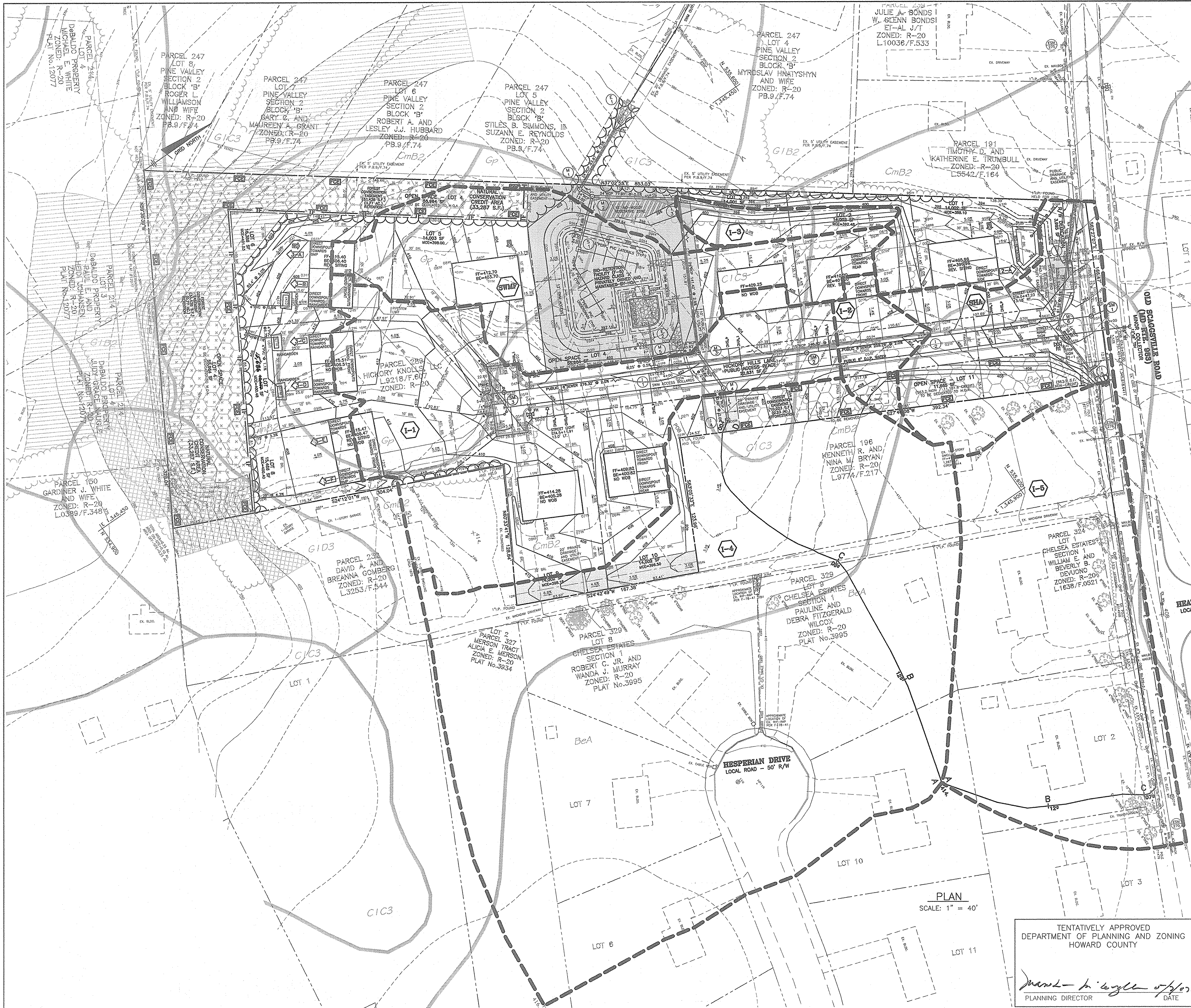
PROJECT: HICKORY HILLS  
LOTS 1 THRU 3 & LOTS 5 THRU 10  
AND OPEN SPACE LOTS 4 & 11

LOCATION: TAX MAP 46 - GRID 12  
PARCEL 289  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: PRELIMINARY PLAN  
PUBLIC ROADWAY IMPROVEMENTS  
PROFILES, NOTES AND DETAILS

DATE: NOVEMBER 6, 2006  
APRIL 24, 2007 PROJECT NO. 1560

Des: MCR/DAM Draft: MCR Check: DAM SCALE: AS SHOWN DRAWING 7 OF 8



SOILS LEGEND		
MAP SYMBOL	SOIL TYPE	MAPPING UNIT
BeA*	C	BELTSVILLE SILT LOAM - 0 TO 1 PERCENT SLOPES
CIC3	B	CHILLUM GRAVELLY LOAM - 5 TO 10 PERCENT SLOPES - SEVERELY ERODED
CmB2	B	CHILLUM SILT LOAM - 1 TO 5 PERCENT SLOPES - MODERATELY ERODED
Gp	A	GRAVEL PITS AND QUARRIES
GIB2	B	GLENELG LOAM - 3 TO 8 PERCENT SLOPES - MODERATELY ERODED
GIC3	B	GLENELG LOAM - 8 TO 15 PERCENT SLOPES - SEVERELY ERODED
GID3	B	GLENELG LOAM - 15 TO 25 PERCENT SLOPES - SEVERELY ERODED

NO. CO. USDA SOILS MAP No. 33  
\* - INDICATES HYDRIC SOILS INCLUSIONS

STORM DRAIN DATA						
INLET NO.	AREA (AC)	% IMPERVIOUS	SOIL CLASS	ZONING	'C' <25	'C' >25
I-1	1.5913	45	A & B	R-20	0.47	0.54
I-2	0.1586	60	B	R-20	0.57	0.65
I-3	0.1261	00	B	R-20	0.21	0.26
I-4*	4.0901	23	B & C	R-20	0.25	0.33
SWMF	1.0509	24	A & B	R-20	0.29	0.36
SHA	0.6281	54	B & C	R-20	0.51	0.60
I-5*	1.5444	32	C	R-20	0.32	0.41

\* - OFFSITE BYPASS COLLECTION POINT

NOTE: CONTRACTORS TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG MD RTE. 983

NO.	DATE	REVISION

**BENCHMARK**  
ENGINEERS • LAND SURVEYORS • PLANNERS

**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE & SUITE 418  
ELLCOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 FAX: 410-465-6644  
E-MAIL: benchmark@bei-civilengineering.com



OWNER/DEVELOPER: HICKORY KNOLLS, L.L.C.  
11807 WOLLINGFORD COURT  
CLARKVILLE, MARYLAND, 21029

PROJECT: HICKORY HILLS  
LOTS 1 THRU 3 & LOTS 5 THRU 10  
AND OPEN SPACE LOTS 4 & 11

LOCATION: TAX MAP 46 - GRID 12  
PARCEL 289  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: PRELIMINARY PLAN  
STORM DRAINAGE AREA  
AND SOILS MAP

DATE: NOVEMBER 6, 2005  
APRIL 24, 2007

DRAWING NO. 1560

SCALE: AS SHOWN DRAWING 8 OF 8

TENTATIVELY APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY

*David H. ...*  
PLANNING DIRECTOR DATE

PLAN  
SCALE: 1" = 40'