

GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications, if applicable.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- The contractor is to notify the following utilities or agencies at least five days before starting work on these drawings:
 - Miss Utility 1-800-257-7777
 - Verizon 410-754-6281
 - Howard County Bureau of Utilities: 313-2366
 - AT&T Cable Location Division: 393-3553
 - B.G.&E. Co. Contractor Services: 850-4620
 - B.G.&E. Co. Underground Damage Control: 787-4620
 - State Highway Administration: 531-5533
- Site analysis:
 - Area of parcel: 1.69 Ac.
 - Present zoning: B1
 - Prop. use of structure: Funeral Home
 - Building area : 9,481sf
 - Garage area : 688 sf
 - Disturbed area : 66,094sf (1.52ac)
 - Building coverage on site : 0.22Ac. or 13.0% of gross area
 - Paved parking lot/area : .54 Ac. or 32.0% of gross area
 - Area of landscape island : .0226Ac. = 986sf
 - Cut: 2,394 CY Fill: 40 CY
- Project background:
 - Location : Jessup, Md.; Tax Map 47, Block 6, Parcel 671
 - Zoning : B-1
 - Subdivision : N/A
 - Section/Area : N/A
 - Site Area : 1.69 Acres
 - DPZ references : Deed Reference # 5863/141, ZB-1025M
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to start of work.
- Any damage to public right-of-ways, paving, or existing utilities will be corrected at the contractor's expense.
- Existing utilities located from Road Construction Plans, Field Surveys, Public Water and Sewer Extension Plans and 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 contractor's operation shall be repaired immediately at the contractor's expense.
- All reinforced concrete for storm drain structures shall have a minimum of 28 days strength of 3,500 p.s.i.
- Traffic control devices, markings and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- Estimates of earthwork quantities are provided solely for the purpose of calculating fees.
- Soil compaction specifications, requirements, methods and materials are to be in accordance with the recommendations of the project Geotechnical Engineer. Geotechnical Engineer to confirm acceptability of proposed paving section, based on soil test prior to construction.
- All storm drain pipe bedding shall be Class 'C'.
- The existing topography is taken from field run survey with two foot contour intervals prepared by Surveys, Inc., dated September 1997. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System.
- A noise study is not required for this project.
- All paving to be minimum Howard County Standard Detail P-2 unless otherwise noted. (See detail, sheet 2). The geotechnical engineer to confirm paving section prior to construction.
- All curb and gutter to be Howard County Standard Detail 3.01 unless otherwise specified. (See detail, sheet 2)
- Contractor responsible to construct all handicap parking and handicap access in accordance with current ADA requirements.
- Where drainage flows away from curb, contractor to reverse the gutter pan.
- All elevations are to flowline/bottom of curb unless otherwise noted.
- All dimensions are to face of curb unless otherwise noted.
- Public Water available along Guilford Road (12" Water) Contract #3W.
- Public Sewer available along Guilford road (8" Sewer) Contract #350S.
- Permanent Stormwater Management for this site shall be fulfilled through the use of two dry swales and the disconnection of non rooftop runoff credit. The disconnection of non rooftop runoff credit meets the entire recharge volume requirement for the site and a portion of the water quality volume requirement. The remainder of the water quality volume shall be provided through the use of the dry swales. Channel protection volume is not required for this site.
- All exterior lighting shall conform to Zoning Regulations Section 134.
- Building to have Inside Water Meter setting.
- Lighting provided for informational purposes only. See electrical and architectural plans for additional lighting information.
- All exterior lighting to conform to Section 134 of the Howard County Zoning Regulations. (See detail, sheet 2).
- Wetland Certification prepared by Frederick Ward Associates, Inc., dated February 13, 2002. There are no wetlands on-site.
- Geotech report prepared by Engineering Consulting Services, LTD, dated May 19, 2003.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual.
- Financial Surety for the required landscaping shall be posted as part of the grading permit in the amount of \$11,860.00 for 23 shade trees, 26 evergreen trees and 36 shrubs.
- The Reforestation requirement of 0.51 acres was satisfied through a payment of fee-in-lieu (22,215.6 SF. x 0.50 = \$11,107.80). Obligation has been paid to the Forest Conservation Fund.
- Reference ZB-1025M for zoning case for this site:
 - A) ZB-1025M:
 - Date of approval for Decision and Order: March 25, 2003
 - Rezoned Existing site from R-12 to B-1 for the use of a Funeral Home.
 - Conditions of approval: No conditions listed
- An APFO traffic study was prepared by Lee Cunningham & Associates, dated September 2004.
- Funeral processions from the site will be limited to off peak periods, usually between 10:00am and 3:00pm. Access will be provided via driveway to Guilford Road.

HOWELL FUNERAL HOME

SITE DEVELOPMENT PLAN

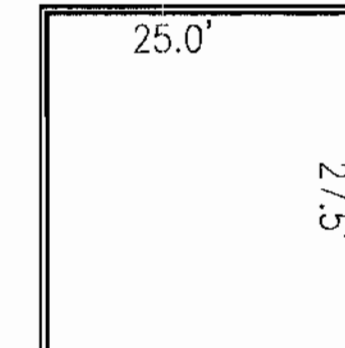
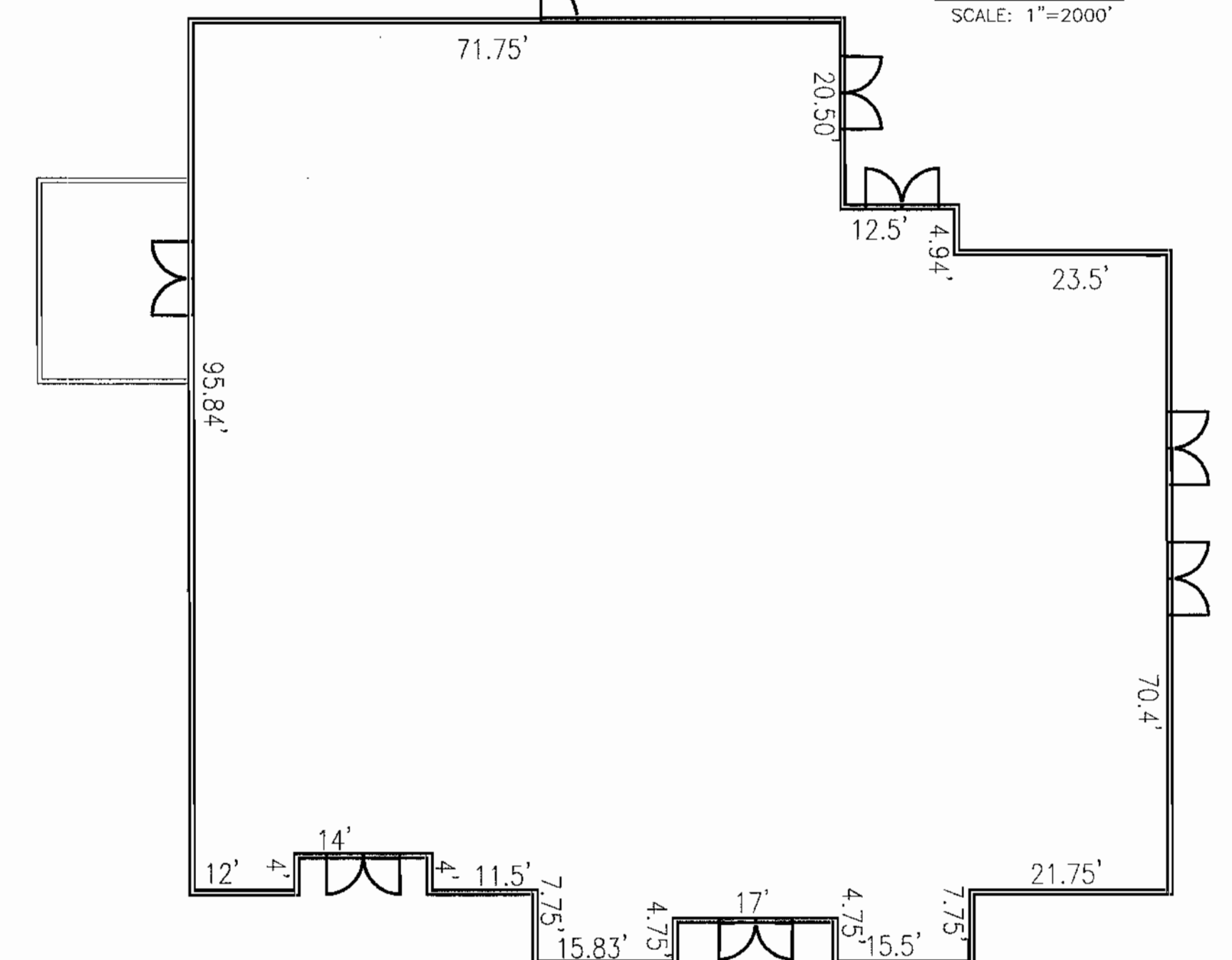
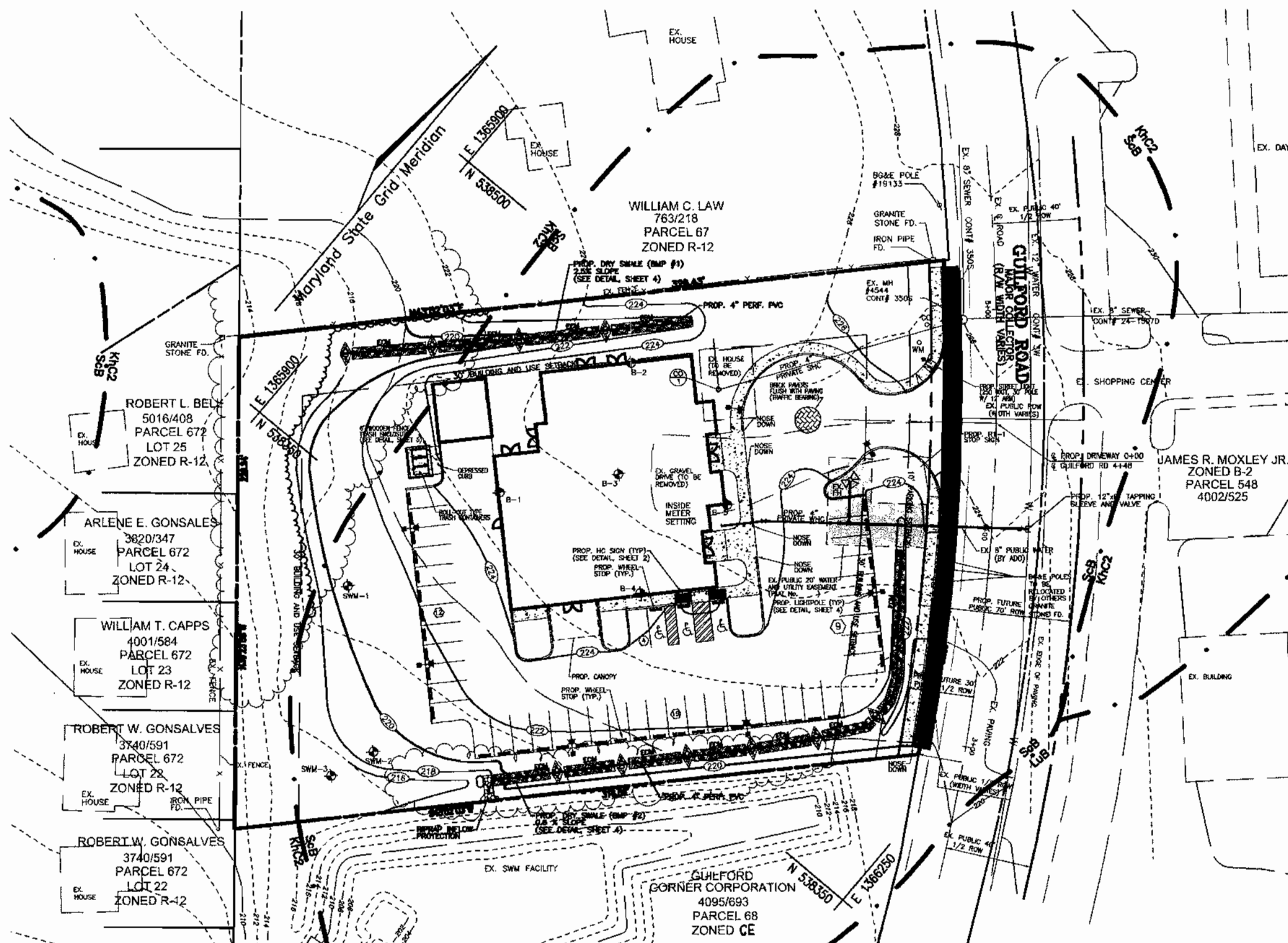
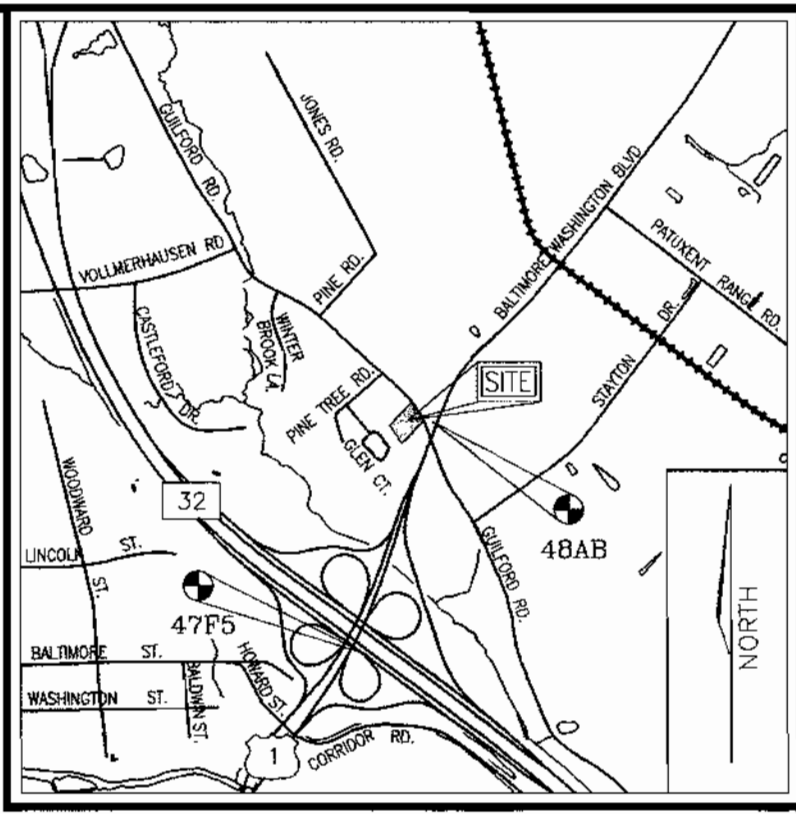
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LEGEND

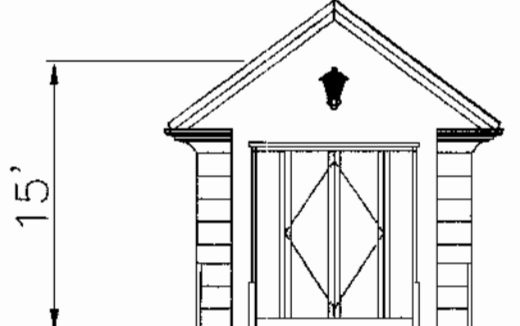
- Existing Contour: ———— 382
- Proposed Contour: ———— +82.53
- Existing Spot Elevation: ○
- Proposed Spot Elevation: ○
- Direction of Flow: →
- Existing Trees to Remain: [Tree Symbol]
- Light Poles: □ Single Overhead, ◇ Double Overhead
- Concrete: [Stippled Pattern]

BENCHMARKS

- HOWARD COUNTY BENCHMARK 48AB (CONCRETE MONUMENT)
N 538384.464 E 1366415.858 ELEV: 225.67'
- HOWARD COUNTY BENCHMARK 47F5 (CONCRETE MONUMENT)
N 535985.964 E 1365656.269 ELEV: 235.818'



OWNER DEVELOPER
HOWELL FUNERAL HOMES, INC.,
4600 LIBERTY HEIGHTS AVE.
BALTIMORE, MD 21207-7552



PARKING TABULATION

VIEWING ROOMS:	REQUIRED
10 SPACES/VIEWING ROOM	30 SPACES
VIEWING ROOM USE TIME 3:00-8:00 PM, SEE ZB-1025M	
NUMBER OF EMPLOYEES: 7	
1 SPACE/EMPLOYEE	7 SPACES
TOTAL PARKING REQUIRED:	37 SPACES
	44 SPACES (INCLUDES 3 HANDICAPPED SPACES)

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	1 of 5
SITE LAYOUT PLAN AND SEDIMENT CONTROL PLAN	2 of 5
SEDIMENT CONTROL NOTES AND DETAILS	3 of 5
SITE DRAINAGE AREA MAP, UTILITY PROFILES, SWM NOTES AND DETAILS	4 of 5
SITE LANDSCAPE PLAN AND FOREST CONSERVATION PLAN	5 of 5

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/7/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 3/11/05
CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] 3/16/05
DIRECTOR

ADDRESS CHART

LOT/PARCEL#	STREET ADDRESS
671	10220 Guilford Road

PERMIT INFORMATION CHART

PROJECT NAME	SECTION/AREA	PARCEL NUMBER			
HOWELL FUNERAL HOME		671			
DEED REF.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
5863/141	6	B1	47	6th	6069.01
WATER CODE:	B-03	SEWER CODE:	4250000		

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN

COVER SHEET

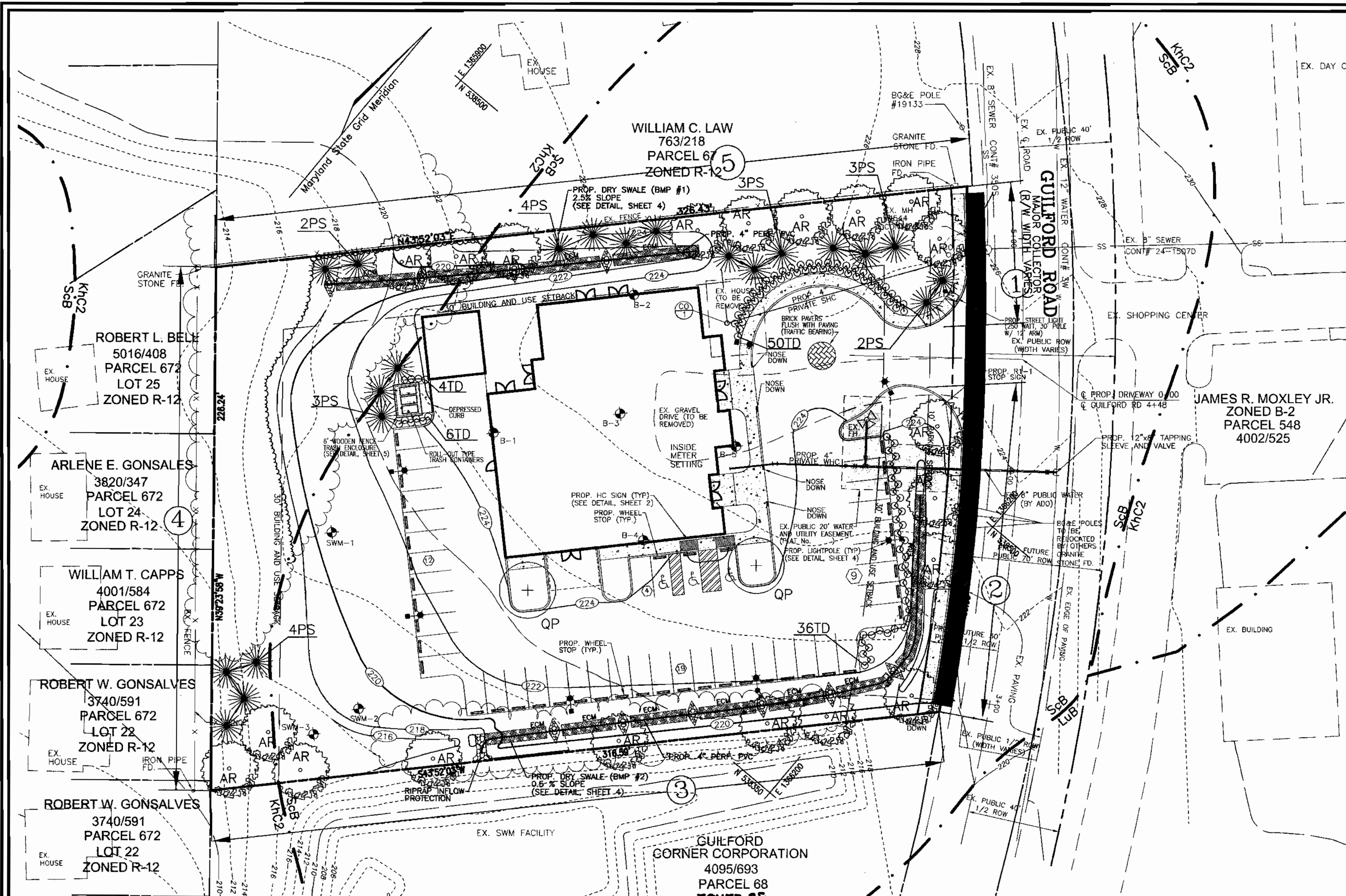
HOWELL FUNERAL HOME

TAX MAP 47 BLOCK 6 PARCEL 671
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

DESIGN BY: JMZ
DRAWN BY: DZ
CHECKED BY: RHY
DATE: FEBRUARY 2005
SCALE: AS SHOWN
W.O. NO.: 04-31

1 SHEET OF 5

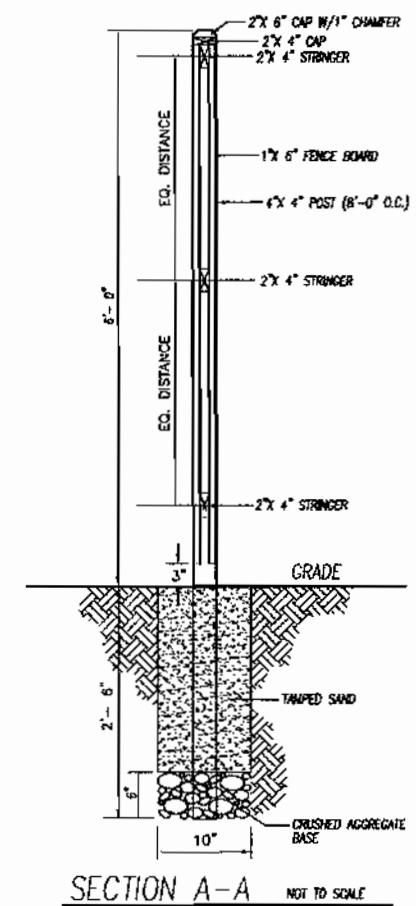
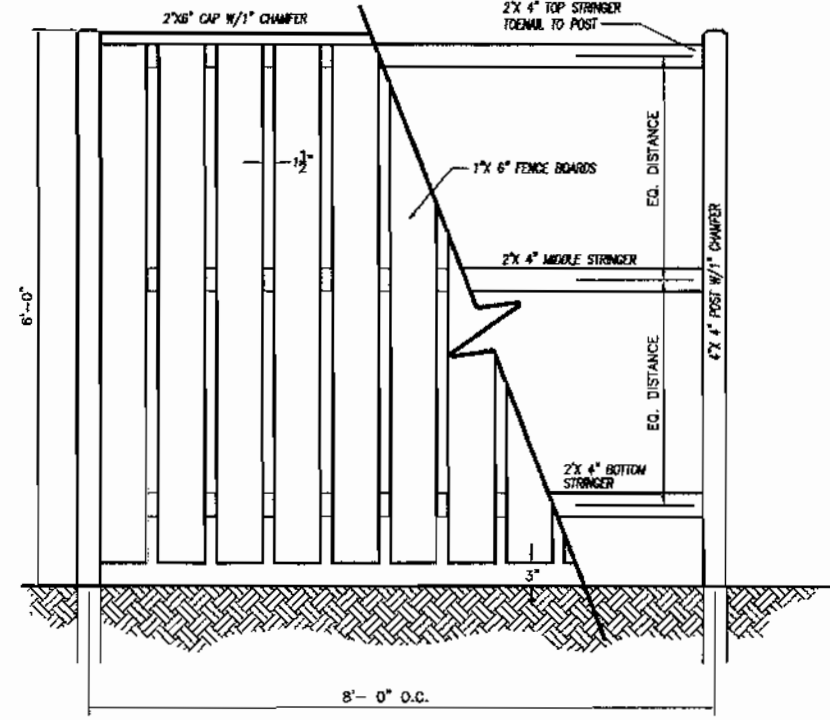
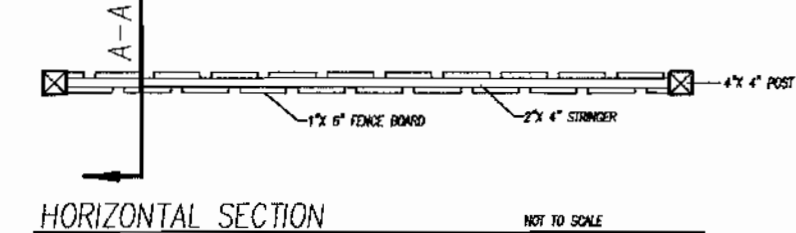


PLAN VIEW
SCALE: 1"=30'

LANDSCAPE SCHEDULE				
KEY	QUAN.	BOTANICAL NAME	SIZE	REM.
AR	20	Acer rueraum 'October Glory' October Glory Red Maple	2 1/2" - 3" Cal.	B & B
PS	21	Pinus strobus Eastern White Pine	6' - 8' Ht.	B & B
TD	96	Toxus x media 'Densiformis' Densiformis Yew	36" Ht.	B & B or CONT.
QP	2	Quercus phellos Willow Oak	2 1/2" - 3" Cal.	B & B

SCHEDULE A PERIMETER LANDSCAPE EDGE						
CATEGORY	ADJACENT TO ROADWAYS		ADJACENT TO PERIMETER PROPERTIES			ADJACENT TO DUMPSTER
	1	2	3	4	5	6
Perimeter/Frontage Designation	1	2	3	4	5	6
Linear Feet of Roadway	61'	143'	317'	227'	330'	34'
Credit for Existing Vegetation (Yes, No, Linear Feet Describe below if needed)	No	No	No	141'	No	No
Credit for Wall, Fence or Berm (Yes, No, Linear Feet Describe below if needed)	No	No	No	No	No	No
Number of Plants Required	1:50	1:40	1:60	1:40	1:40	1:60
Shade Trees	1	4	5	2	8	0*
Evergreen Trees	1:40	2	-	1:20	4	1:10
Shrubs	-	1:4	36	-	-	-
Number of Plants Provided	2	4	5	2	8	0*
Shade Trees	1	4	5	2	8	0*
Evergreen Trees	-	-	-	4	12**	3
Other Trees (2:1 Substitution)	-	-	-	-	-	10*
Shrubs (10:1 Substitution)	-	36	-	-	50**	-
Describe Plant Substitution Credits Below if needed						

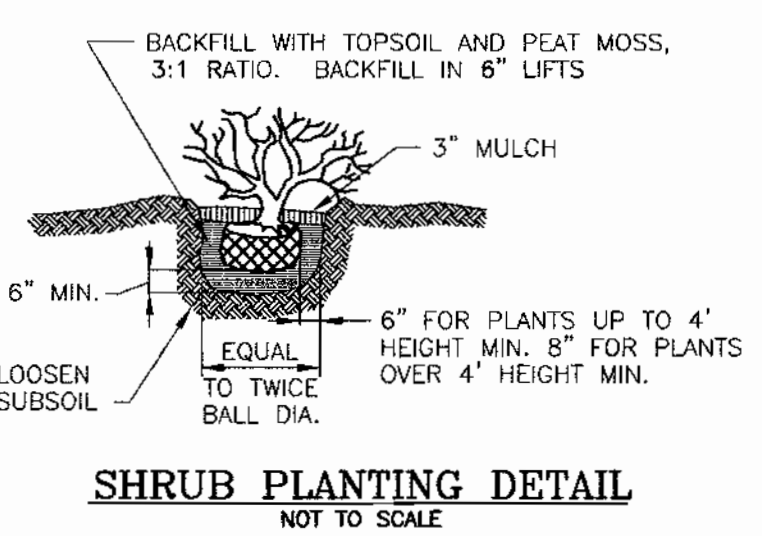
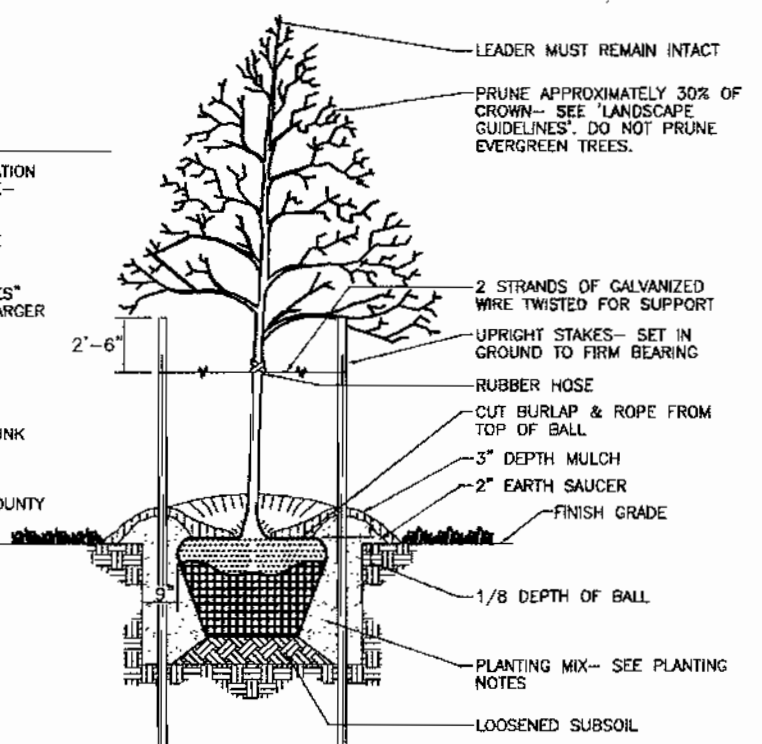
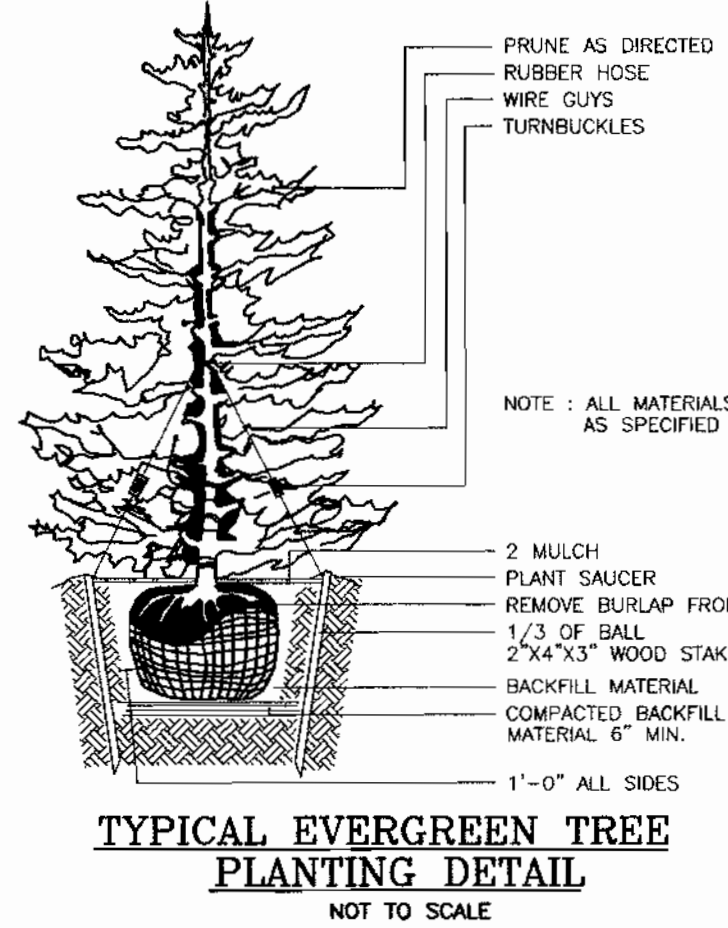
*10 SHRUBS SUBSTITUTED FOR ONE SHADE TREE IN DUMPSTER AREA.
**50 SHRUBS SUBSTITUTED FOR 5 EVERGREEN TREES IN PERIMETER 5.



SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
Number of parking spaces	47
Number of trees and islands required	2
Number of trees and islands provided	2
Shade Trees	2
Other Trees (2:1 Substitution)	-

FOREST CONSERVATION PROFESSIONAL
ROBERT H. VOGEL ENGINEERING, INC.
8407 MAIN STREET
ELLCOTT CITY, MD 21043
PHONE: 410-461-7666

OWNER DEVELOPER
HOWELL FUNERAL HOMES, INC.
4600 LIBERTY HEIGHTS AVE.
BALTIMORE, MD 21207-7552



- NOTES:
- SEE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METRODCOM AREAS" FOR ALL MATERIAL, PRODUCT, AND PROCEDURAL SPECIFICATIONS.
 - SEE "LANDSCAPE GUIDELINES" FOR SUPPORTING TREES LARGER THAN 2-1/2" CALIPER.
 - PLACE UPRIGHT STAKES PARALLEL TO WINDS & BUILDINGS.
 - KEEP MULCH 1" FROM TRUNK.
 - SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
 - TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.

LANDSCAPE SCHEDULE NOTES:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH LCAMM PLANTING SPECIFICATIONS.
- MAINTENANCE TO INCLUDE MONITORING AND HAND WATERING AS NEEDED FOR THE FIRST TWO GROWING SEASONS TO ESTABLISH WOODY PLANTS. SPECIALIZED PLANTING AREAS INCLUDING FOUNDATION PLANTING OR ANNUAL BEDS MAY REQUIRE REGULAR HAND WATERING OR IRRIGATION.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLANT DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL COVER.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.24 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. THE REQUIRED PARKING AND PERIMETER LANDSCAPING WILL BE BONDED PER THIS SUBMISSION.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$11,880.00 FOR THE REQUIRED 23 SHADE TREES AND 26 EVERGREEN TREES AND 36 SHRUBS.

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.24 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

SIGNATURE OF DEVELOPER: William Howell DATE: 2/15/05

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature] DATE: 3/7/05

CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] DATE: 3/11/05

DIRECTOR: [Signature] DATE: 3/1/05

FOREST CONSERVATION WORKSHEET

UNDISTURBED NET TRACT AREA:

A. TOTAL UNDISTURBED TRACT AREA	1.68 AC
B. AREA WITHIN 100 YEAR FLOODPLAIN	0.00 AC
C. AREA TO REMAIN IN AGRICULTURAL PRODUCTION	0.00 AC
D. NET TRACT AREA	1.68 AC

LAND USE CATEGORY (FROM TABLE 3.2.1, PAGE 40, MANUAL)

INPUT THE NUMBER "1" UNDER THE APPROPRIATE LAND USE ZONING, AND LIMIT TO ONLY ONE ENTRY.	
ARA MDR IDA HDR MPD CIA	0 0 0 0 0 1

E. FOREST THRESHOLD 15% X D = 0.25 AC
F. CONSERVATION THRESHOLD 10% X D = 0.25 AC

EXISTING FOREST COVER:

G. EXISTING FOREST COVER (EXCLUDING FLOODPLAIN)	= 0.28 AC
H. AREA OF FOREST ABOVE AFFORESTATION THRESHOLD	= 0.00 AC
I. AREA OF FOREST ABOVE CONSERVATION THRESHOLD	= 0.03 AC

BREAK EVEN POINT:

J. FOREST RETENTION ABOVE THRESHOLD WITH NO MITIGATION	= 0.28 AC
K. CLEARING PERMITTED WITHOUT MITIGATION	= 0.02 AC

PROPOSED FOREST CLEARING:

L. TOTAL AREA OF FOREST TO BE CLEARED	= 0.28 AC
M. TOTAL AREA OF FOREST TO BE RETAINED	= 0.00 AC

PLANTING REQUIREMENTS:

N. REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD	= 0.01 AC
O. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD	= 0.01 AC
P. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD	= 0.00 AC
R. TOTAL REFORESTATION REQUIRED	= 0.01 AC
S. TOTAL AFFORESTATION REQUIRED	= 0.00 AC
T. TOTAL REFORESTATION AND AFFORESTATION REQUIRED	= 0.01 AC

THE REFORESTATION REQUIREMENT OF 0.01 AC WILL BE SATISFIED THROUGH PAYMENT OF \$5-IN-LIEU (22,215.6 SF x 0.01 = \$1,110.78). OBLIGATION HAS BEEN PAID TO THE FOREST CONSERVATION FUND.

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
SITE LANDSCAPE PLAN AND
FOREST CONSERVATION PLAN

HOWELL FUNERAL HOME

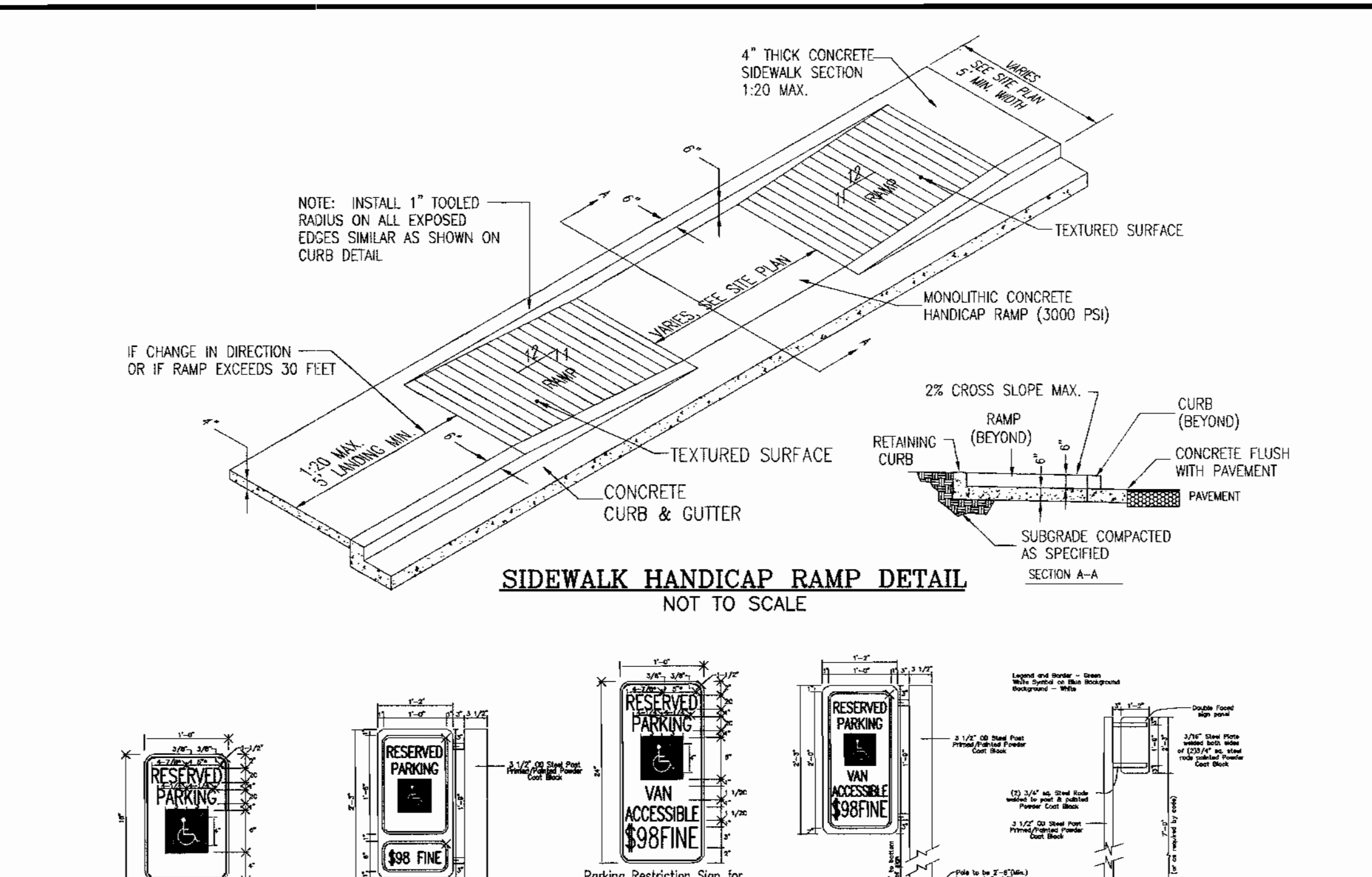
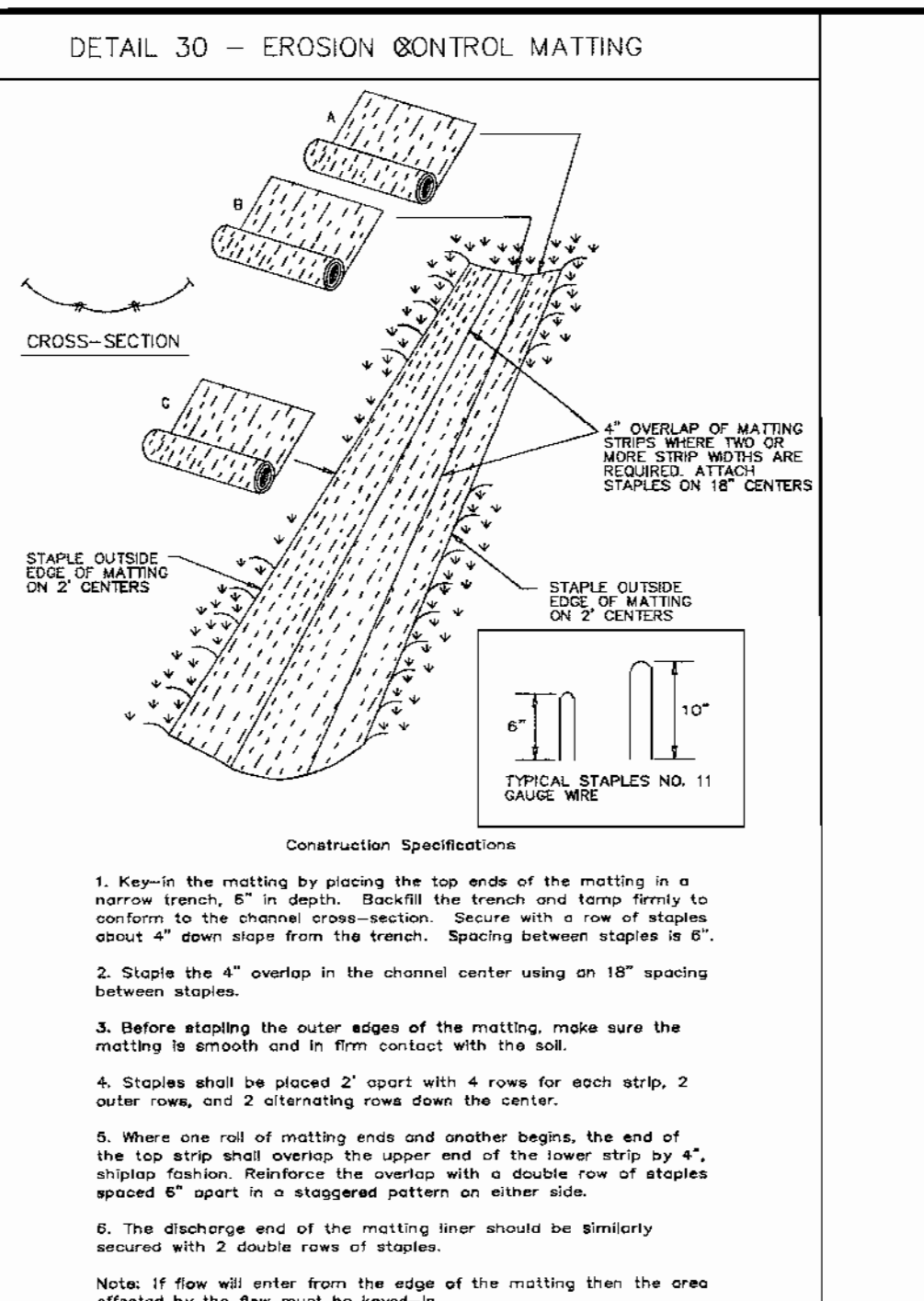
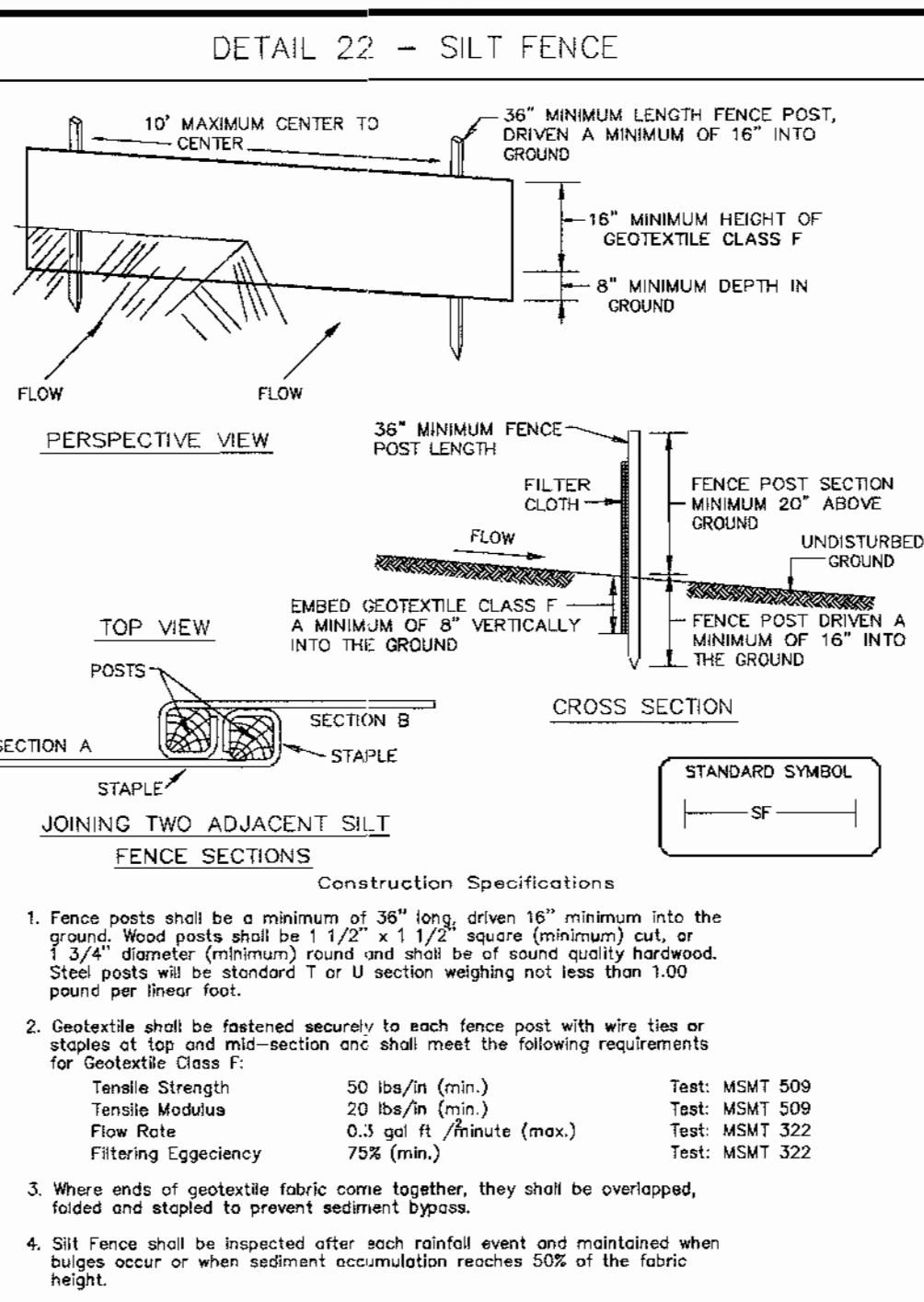
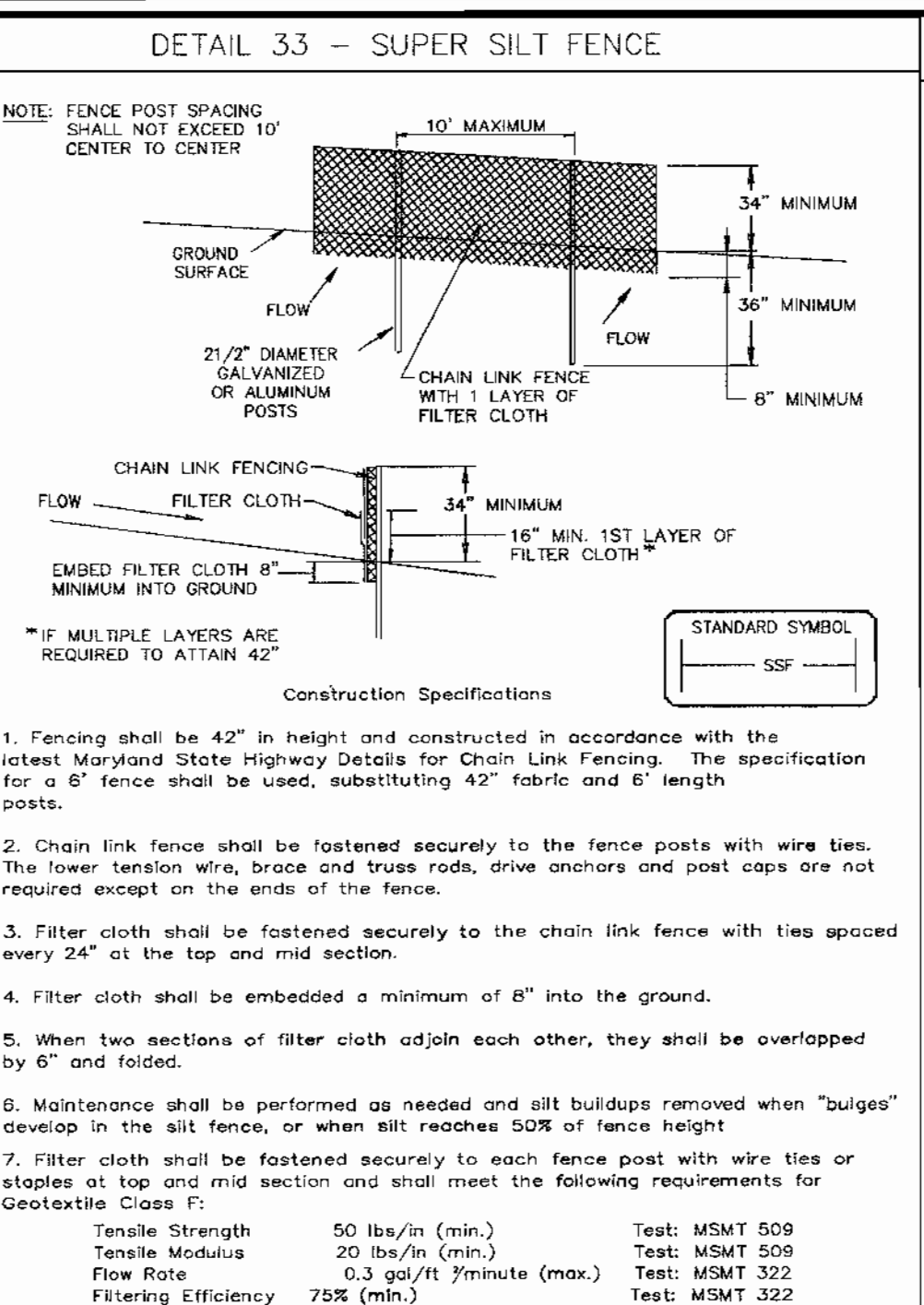
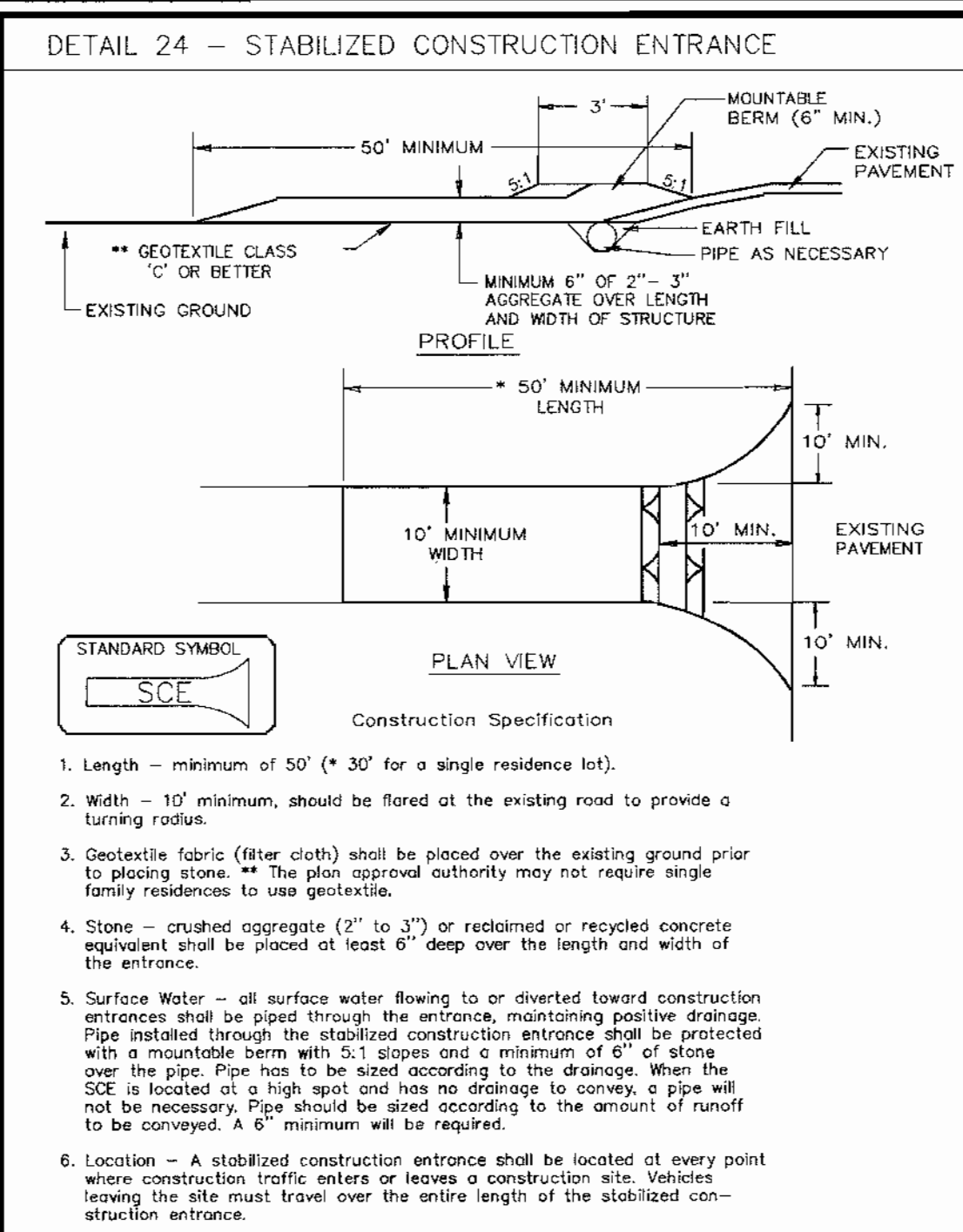
TAX MAP 47 BLOCK 6 PARCEL 671
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

DESIGN BY: [Signature] LUT.
DRAWN BY: [Signature] DZ.
CHECKED BY: [Signature] RBY
DATE: FEBRUARY 2005
SCALE: AS SHOWN
W.O. NO.: 04-31

5 SHEET OF 5



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F-17-3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE - 28 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E-15-3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE G-22-2	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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PERMANENT SEEDING NOTES

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

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 60 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 - fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (14 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition: Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose: To provide a suitable soil medium for vegetable growth. Soils of certain low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies:

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish confining supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications:

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 2% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutcase, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required or prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the piling and compacting of material in required excavations, the water level of the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (313-1855).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as for all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area	1.69 Acres
Area Disturbed	1.69 Acres
Area to be seeded or mulched	0.83 Acres
Area to be vegetatively stabilized	0.73 Acres
Total Cut	2,275 CY
Total Fill	276 CY
- Off-site waste/borrow area location
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

BORING PROFILES

NOT TO SCALE

B-5	B-4	B-3	B-2	B-1
1.0	0.67	0.58	0.58	0.58
220	220	220	220	220
5.0	5.0	5.0	5.0	5.0
215	215	215	215	215
10.0	10.0	10.0	10.0	10.0
210	210	210	210	210
15.0	15.0	15.0	15.0	15.0
205	205	205	205	205
20.0	20.0	20.0	20.0	20.0
200	200	200	200	200

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

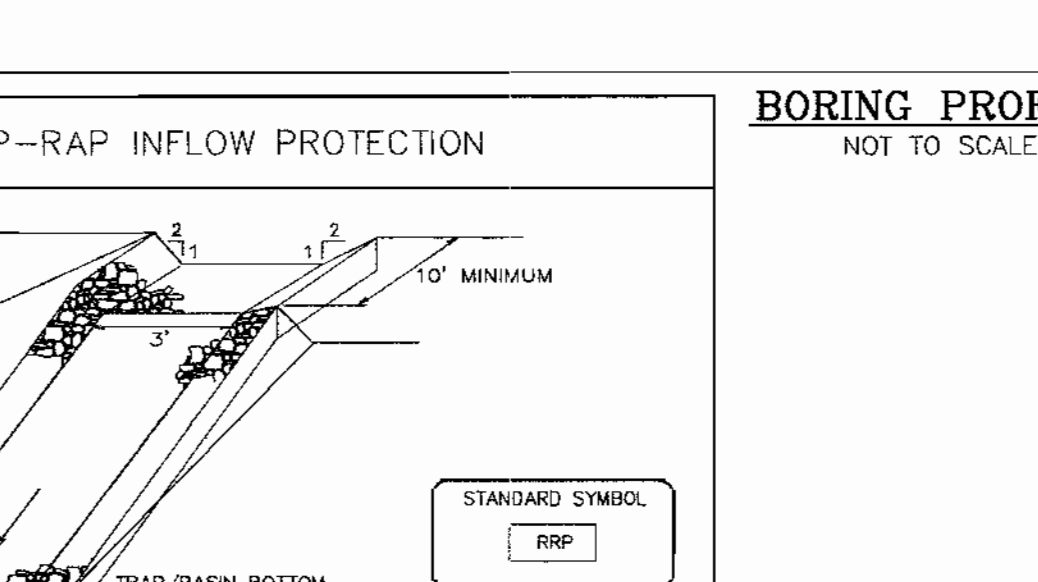
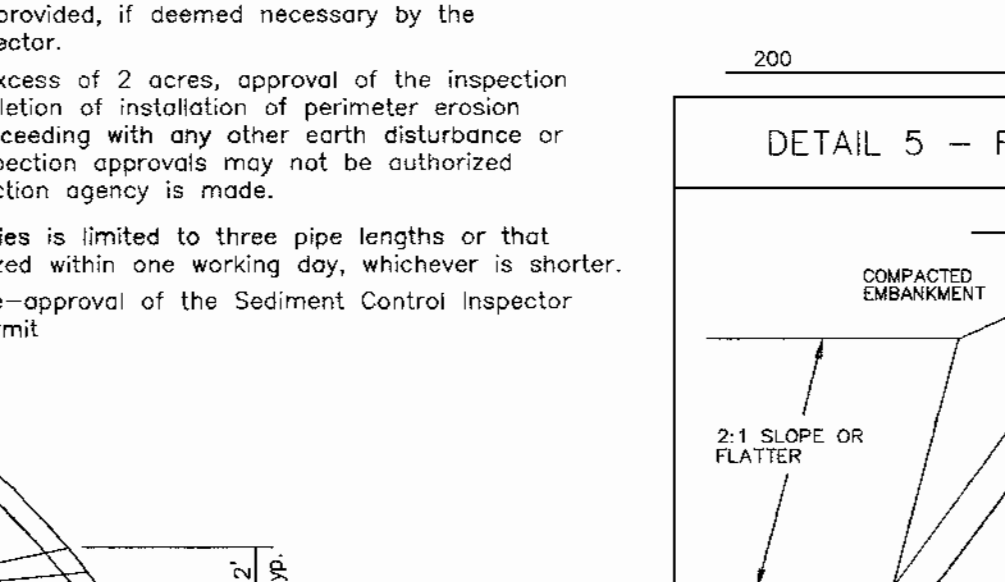
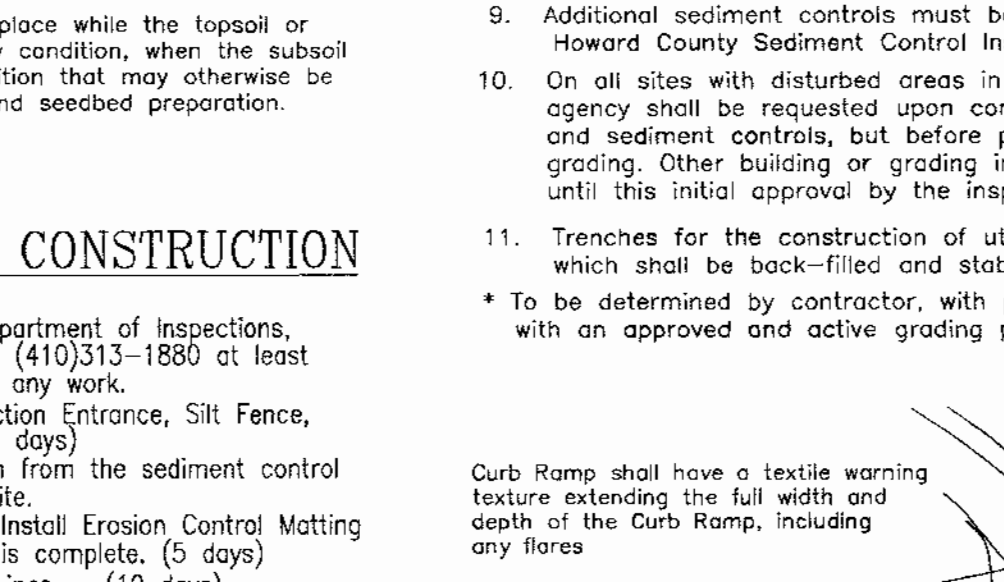
SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.)

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre annual ryegrass (3.2 lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1000 sq.ft.). For the period November 1 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Department of Inspections, Licenses, and Permits at (410)313-1880 at least 24 hours before starting any work.
- Install Stabilized Construction Entrance, Silt Fence, and Super Silt Fence. (2 days)
- After receiving permission from the sediment control inspector, rough grade site.
- Construct BMP Swales. Install Erosion Control Matting after swale construction is complete. (5 days)
- Install water and sewer lines. (10 days)
- Construct building. (6 months)
- Fine grade site. (5 days)
- Install curb and gutter, paving, and sidewalks. (10 days)
- Install landscaping. (1 week)
- Permanently stabilize all remaining areas. (1 day)
- With permission of the Inspector, remove all Sediment Controls from the site.
- During grading and after each rainfall, contractor will inspect and provide necessary maintenance to the Sediment Control measures on this plan.
- Following initial soil disturbances or redistribution permanent or temporary stabilization shall be completed within:
 - 7 calendar days for all perimeter Sediment Control Structures, Dikes, Swales and all slopes greater than 3:1.
 - 14 calendar days for all other disturbed areas.



OWNER DEVELOPER

HOWELL FUNERAL HOMES, INC.,
4600 LIBERTY HEIGHTS AVE.,
BALTIMORE, MD 21207-7552

EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction areas shall control erosion and sediment control measures to be employed during the construction process.

CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required or prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the piling and compacting of material in required excavations, the water level of the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.

BY THE DEVELOPER:
JIM MAYER 2/14/05
USDA-NATURAL RESOURCES CONSERVATION SERVICE

BY THE ENGINEER:
ROBERT H. VOGEL, P.E. 2/14/05

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3/2/05
DATE

3/11/05
DATE

3/11/05
DATE

SITE DEVELOPMENT PLAN

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS,

HOWELL FUNERAL HOME

TAX MAP 47 BLOCK 6 PARCEL 671
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.

ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3/2/05
DATE

3/11/05
DATE

3/11/05
DATE

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.

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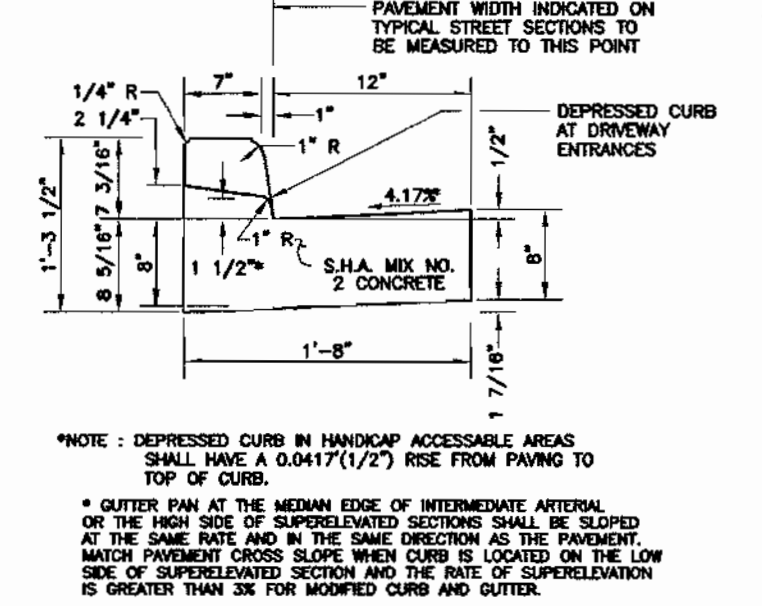
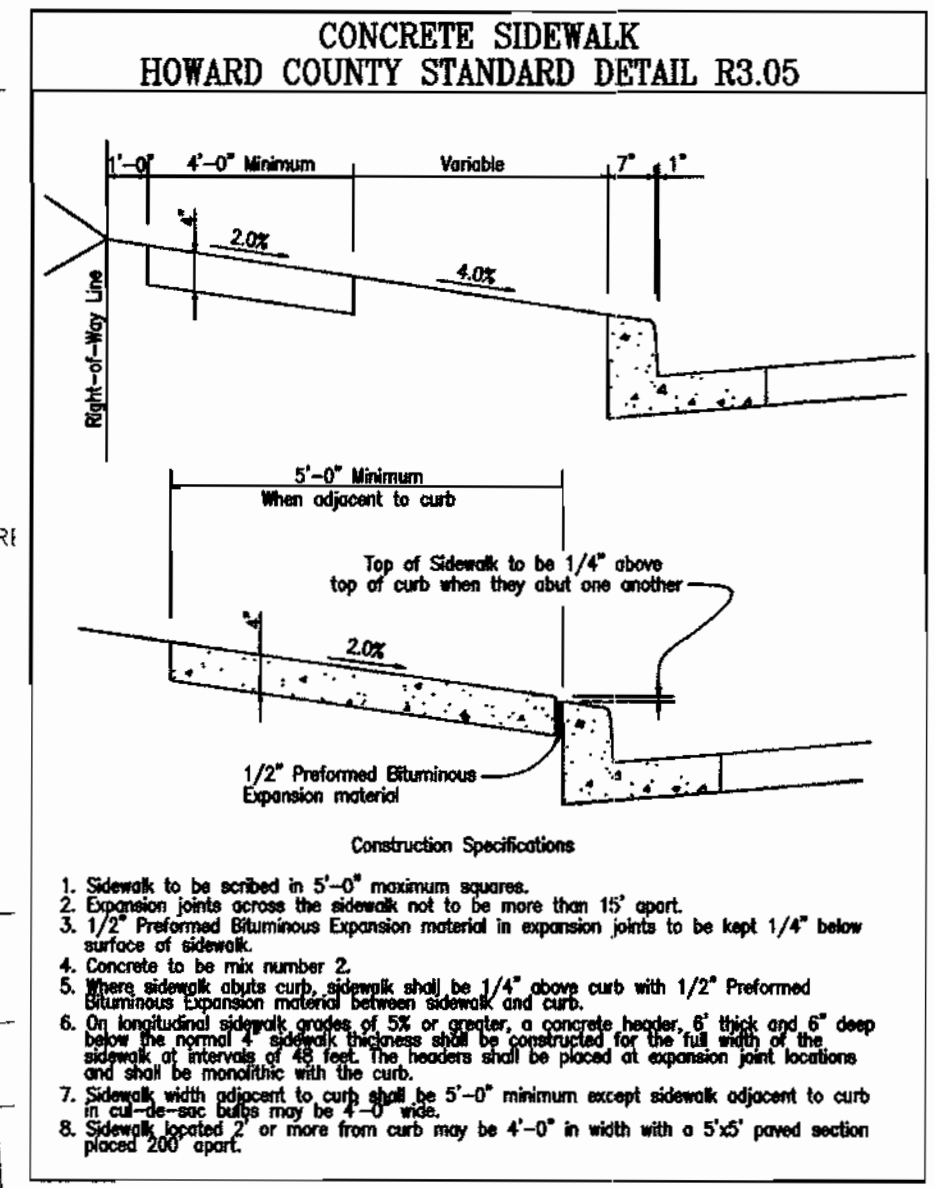
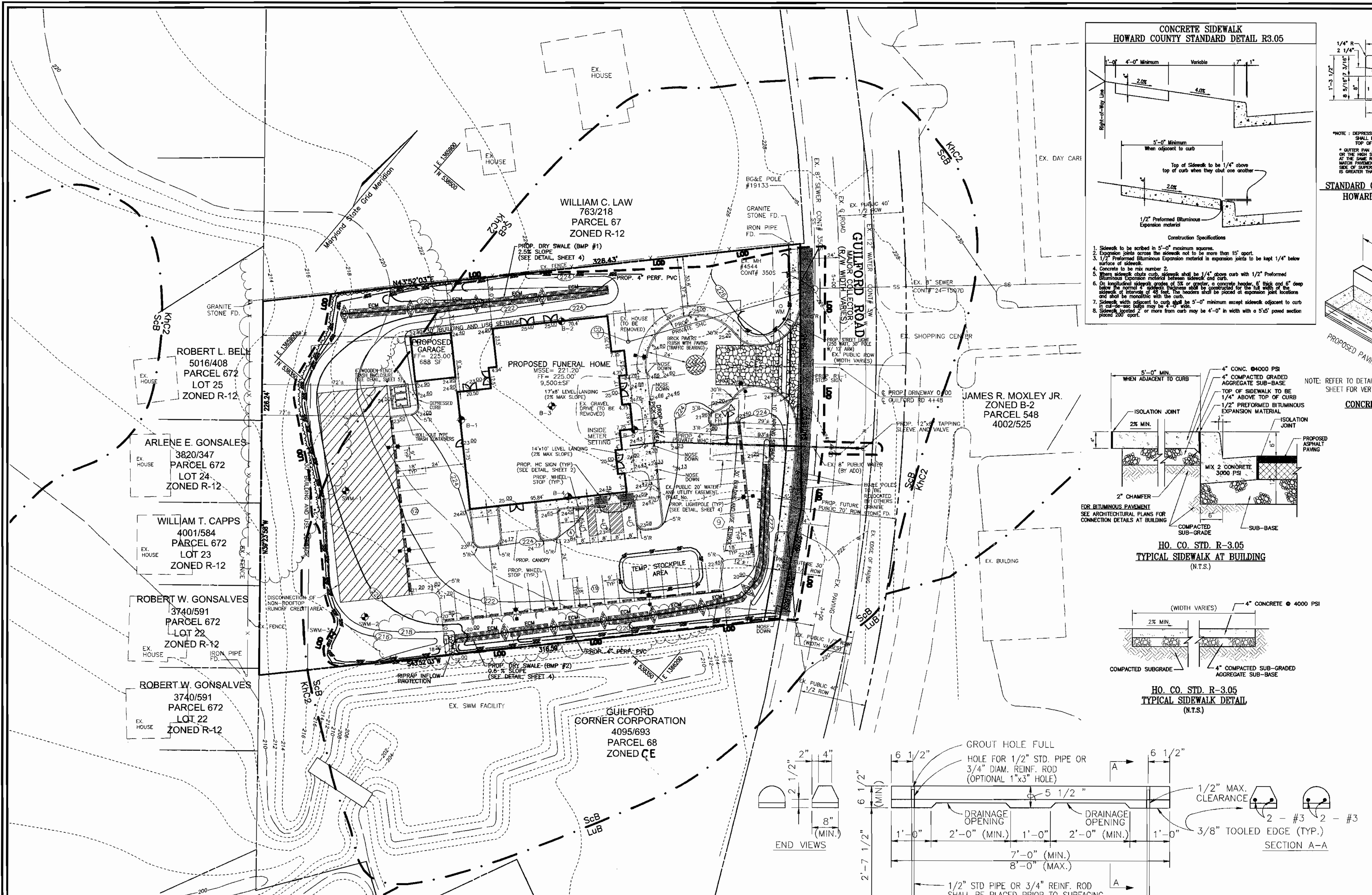
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

3/2/05
DATE

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DATE

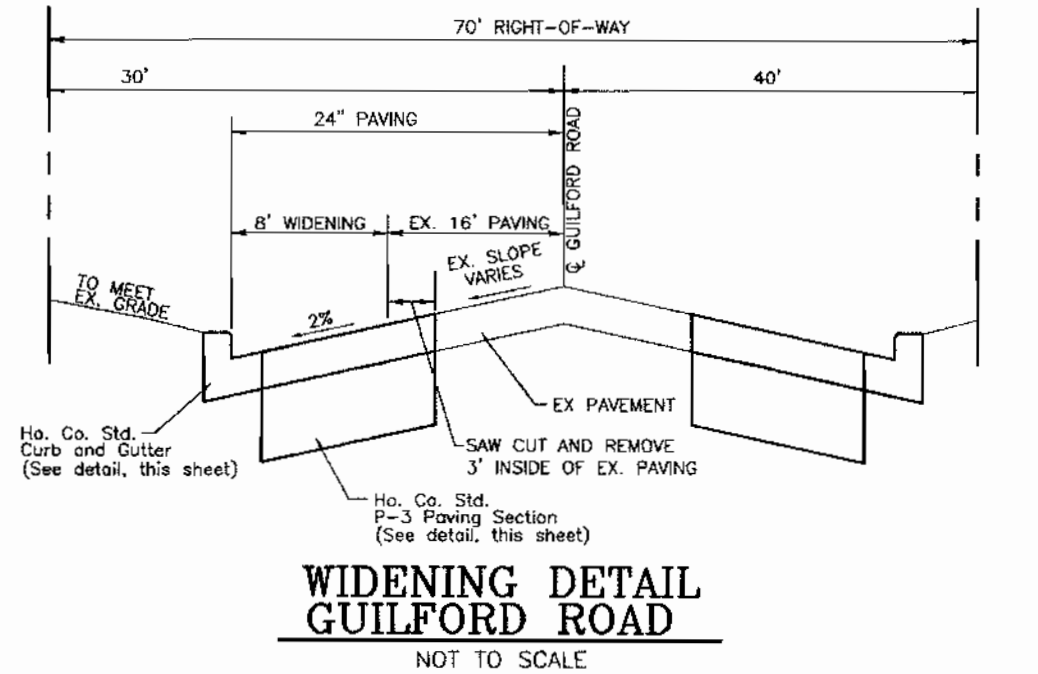
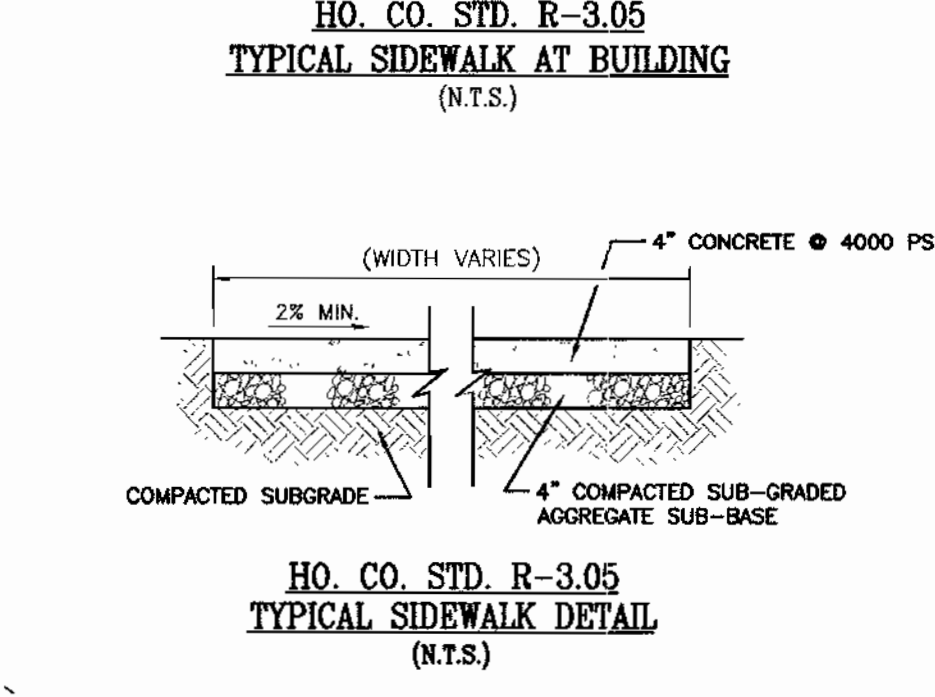
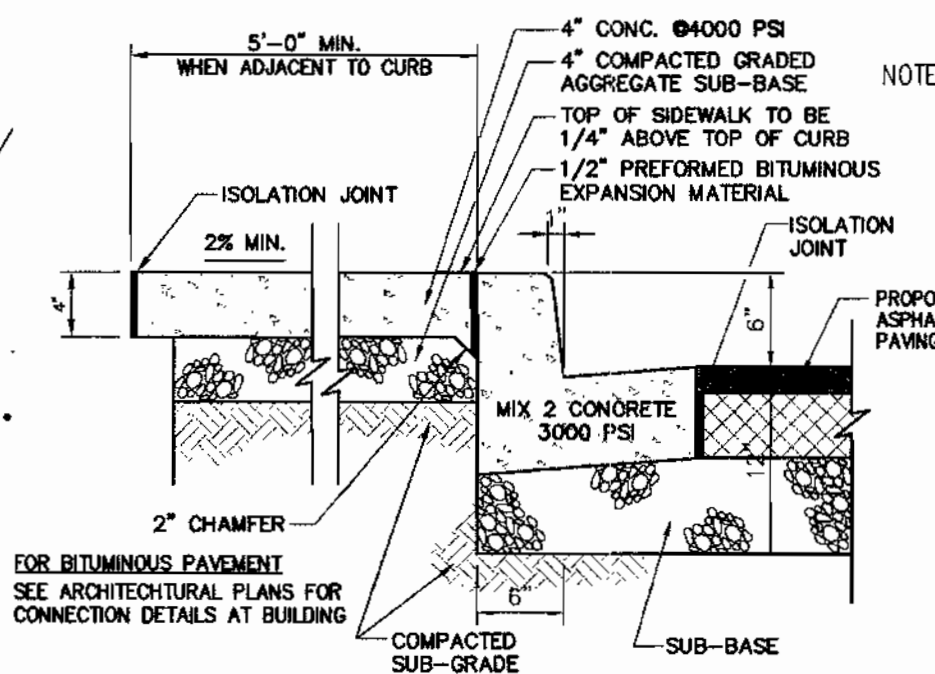
3/11/05
DATE

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DRAWN BY: DJ
CHECKED BY: RHV
DATE: FEBRUARY 2005
SCALE: AS SHOWN
W.O. NO.: 04-31
3 SHEET OF 5

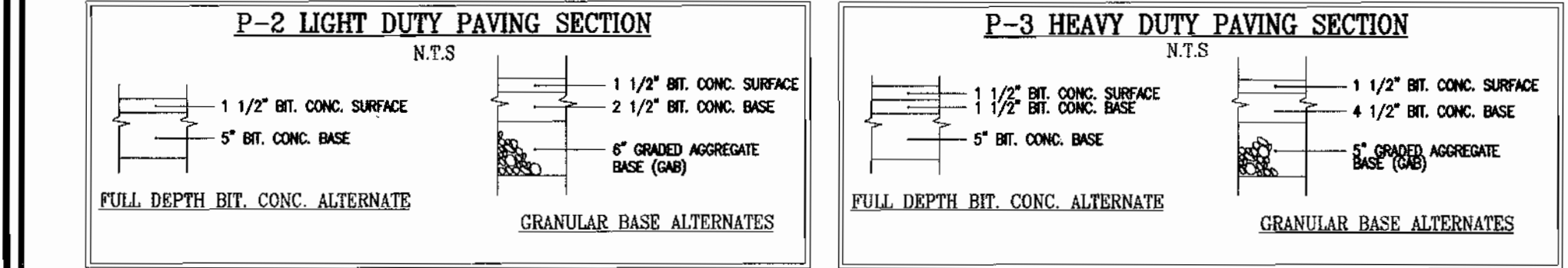


LEGEND:

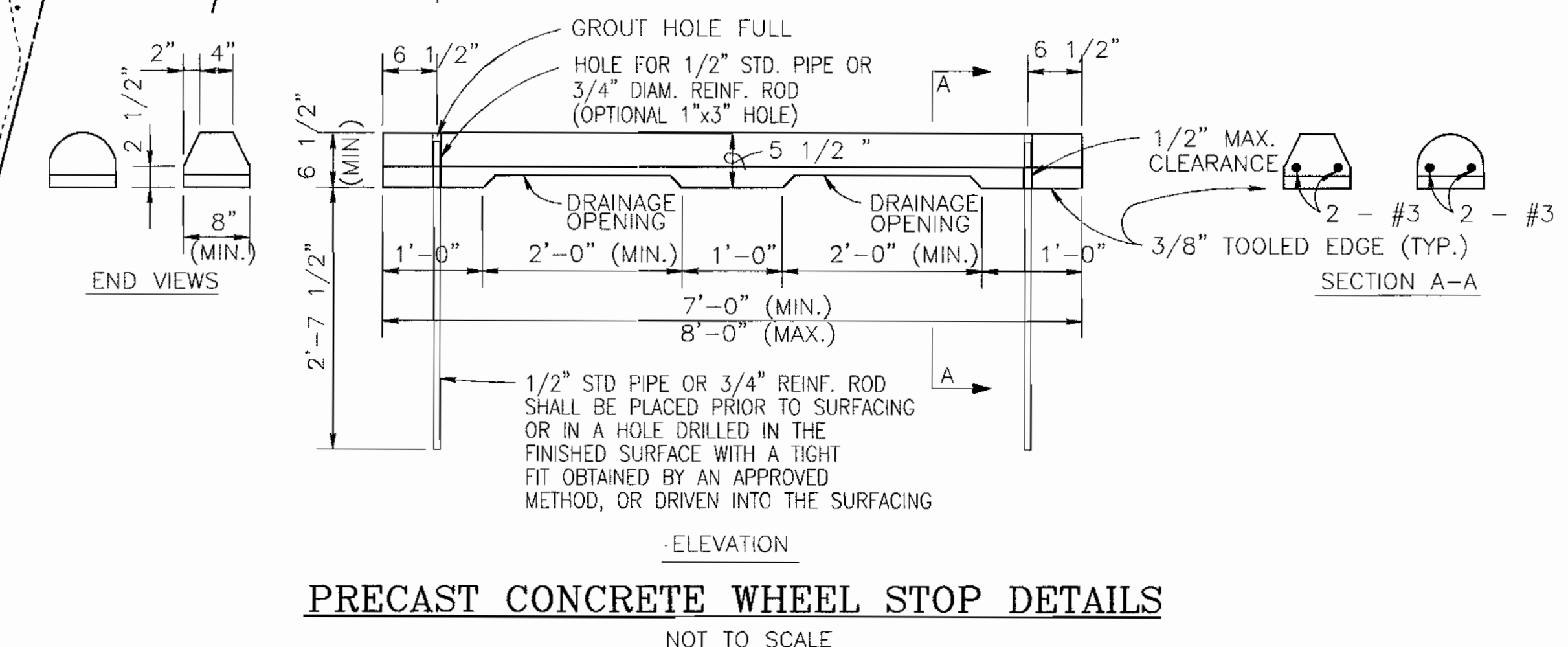
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- EXISTING CULY WIRE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING MAILBOX
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY LINE
- EXISTING CLEANOUT
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SD MANHOLE
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN INLET
- EXISTING TREES (FIELD LOCATED)
- EXISTING TREELINE (FIELD LOCATED)
- EXISTING VEGETATION (APPROXIMATE LOCATION)
- EXISTING FENCE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SOILS BOUNDARY
- SILT FENCE
- SUPER SILT FENCE
- PROPOSED SIDEWALK
- PROPOSED LIGHTING (SEE B.L. SHEET 4)
- PROPOSED STREET LIGHT (250 WATT, 30' POLE, 12' ARM)
- LIMIT OF DISTURBANCE
- EROSION CONTROL MATTING
- CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE



OWNER DEVELOPER
 HOWELL FUNERAL HOMES, INC.,
 4600 LIBERTY HEIGHTS AVE.,
 BALTIMORE, MD 21207-7552



PLAN VIEW
 SCALE: 1"=30'



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Charles D... 3/7/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Cinda... 3/1/05
 CHIEF, DIVISION OF LAND DEVELOPMENT
... 3/1/05
 DIRECTOR

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.
Jim Meyer 2/15/05
 USDA-NATURAL RESOURCES CONSERVATION SERVICE
 DATE
John P. ... 2/15/05
 HOWARD S.C.D.
 DATE

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
William Howell 2/15/05
 SIGNATURE OF DEVELOPER
 DATE

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert H. Vogel, P.E. 2/15/05
 SIGNATURE OF ENGINEER
 DATE

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
SITE LAYOUT PLAN, SEDIMENT AND EROSION CONTROL PLAN
HOWELL FUNERAL HOME
 TAX MAP 47 BLOCK 6 PARCEL 671
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
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 8407 MAIN STREET TEL: 410.461.7666
 ELLICOTT CITY, MD 21043 FAX: 410.461.6961

DESIGN BY: JMV
 DRAWN BY: DZ
 CHECKED BY: RHV
 DATE: FEBRUARY 2005
 SCALE: AS SHOWN
 W.O. NO.: 04-31
 2 SHEET OF 5

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