

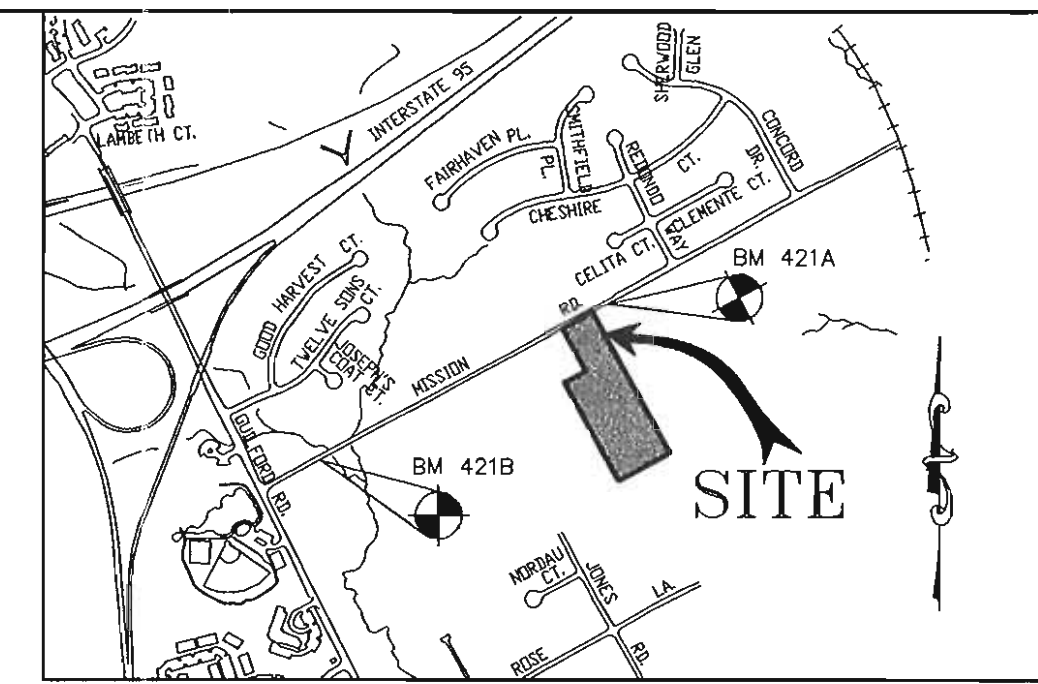
SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN AND LANDSCAPE PLAN
3	GRADING AND SEDIMENT CONTROL
4	DETAIL SHEET

SITE DEVELOPMENT PLAN

NORDAU SUBDIVISION

LOTS 52-54 AND NON-BUILDABLE PARCEL A-1, SECTION G

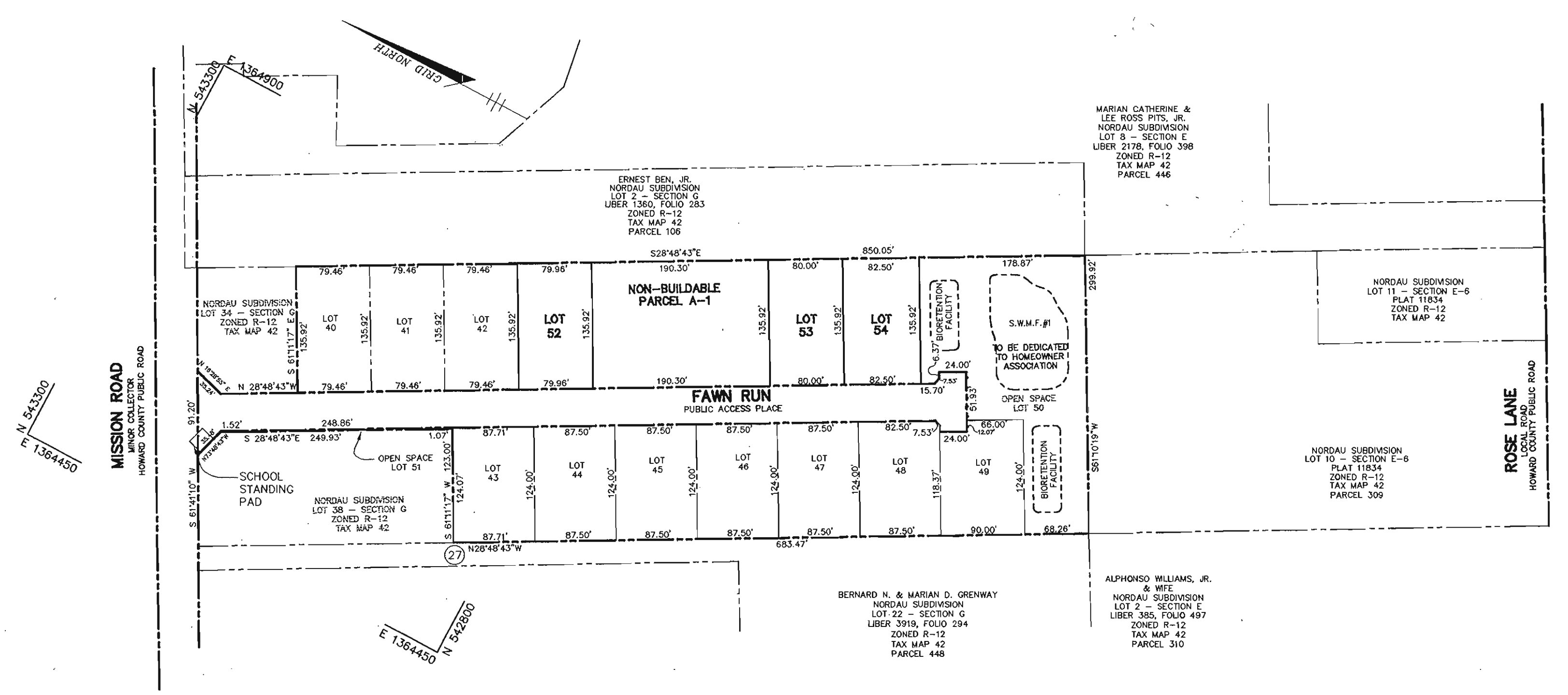
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE 1"=1000'

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY MAPS WITH TWO FOOT CONTOUR INTERVALS PREPARED BY WINGS, INC., FLOWN IN MARCH, 2001.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODEIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NO'S 421A AND 421B WERE USED FOR THIS PROJECT. BOUNDARY SHOWN HEREON IS BASED ON A BOUNDARY SURVEY PREPARED BY RIEMER MUEGGE, A DIVISION OF PHR&A, DATED JUNE, 2001.
- THE STORMWATER MANAGEMENT FOR THIS SITE EXISTS UNDER F-03-32 AND IS A DRY EXTENDED DETENTION POND, TWO (2) BIORETENTION FACILITIES AND EXISTING DRY WELLS ON LOTS 40, 41 AND 42 WITH ROUTINE MAINTENANCE BY THE HOMEOWNER'S ASSOCIATION AND NON-ROUTINE MAINTENANCE BY HOWARD COUNTY.
- EXISTING UTILITIES ARE BASED ON PUBLIC WATER AND PUBLIC SEWERAGE CONNECTIONS PROVIDED UNDER CONTRACT No. 24-4084-D.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- FOR DRIVEWAY ENTRANCE DETAILS, REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.03. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENT OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12 FEET (14 FEET IF SERVING MORE THAN ONE RESIDENCE) B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45' FOOT TURNING RADIUS D) STRUCTURES (CULVERTS/BRIDGES) - MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING) E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE F) STRUCTURE CLEARANCES - MINIMUM 12 FEET G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
- BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY WILDMAN ENVIRONMENTAL SERVICES, DATED MAY, 2001.
- THE FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE FOREST CONSERVATION MANUAL HAVE BEEN FULFILLED UNDER F-03-32 BY THE PLACEMENT OF 2.69 ACRES OF REFORESTATION IN AN OFF-SITE FOREST CONSERVATION EASEMENT (LITSON FARMS TAX MAP 6, PARCEL 106) SURETY IN THE AMOUNT OF \$58,588.20 HAS BEEN POSTED WITH THE DEVELOPERS AGREEMENT FOR F-03-32.
- PERIMETER LANDSCAPING SHALL BE IN ACCORDANCE WITH SECTION 16.124 OF THE LANDSCAPE MANUAL AND PROVIDED AS SHOWN ON THIS SITE PLAN. SURETY FOR ONE SHADE TREE LOCATED ON LOT 53 IN THE AMOUNT OF \$300.00 AND TWO SHADE TREES LOCATED ON LOT 54 IN THE AMOUNT OF \$600.00 FOR A TOTAL SURETY OF \$900.00 SHALL BE POSTED WITH THE GRADING PERMIT. STREET TREES AND PERIMETER LANDSCAPING SHALL BE PROVIDED AS SHOWN ON THE ROAD CONSTRUCTION DRAWINGS AND BONDED WITH THE DEVELOPER'S AGREEMENT FOR F-03-32.
- THIS PLAN CONFORMS WITH THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- NO CONSTRUCTION, GRADING OR DISTURBANCE IS PERMITTED WITHIN THE BUFFERS STREAM OR STREAM BANK.
- THE HOMEOWNERS' DOCUMENTS OF INCORPORATION HAVE BEEN RECORDED WITH THE MARYLAND STATE DEPARTMENT OF ASSESSMENTS AND TAXATION ON 4-03-02, AS NUMBER: Liber 369/Folio 1649
- PROJECT BACKGROUND INFORMATION:
TAX MAP 42, PARCEL 107 & P/O 448
DEED REFERENCE: PLAT NO. 14847 & 15160 TO 15161
GROSS AREA: 1.35 ACRES
ZONE: R-12
AREA OF STEEP SLOPES: 0 ACRES
AREA OF WETLANDS: 0 ACRES
AREA IN ROW AND ROAD: 0 ACRES
TOTAL AREA OF DISTURBANCE: 0.66 ACRES
DPZ FILE NOS: F-01-19, F-01-159, WP-02-11, F-79-146, SP-01-11, F-03-32, SDP-03-135, F-05-07
- IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.



PLAN
SCALE: 1"=100'

BENCH MARKS

HOWARD COUNTY MONUMENT 421A
N 543,390.386 E 1,364,912.655 ELEV.312.667
STANDARD STAMPED BRASS OR ALUMINUM DISC ON
CONCRETE MONUMENT. 0.3' BELOW SURFACE
LOCATED ON WEST MARGIN OF MISSION ROAD
340' EAST OF 6783 MISSION ROAD 74.3' NORTH OF
BGE POLE 297906.

HOWARD COUNTY MONUMENT 421B
N 542,366.879 E 1,363,076.003 ELEV.283.120
STANDARD STAMPED BRASS OR ALUMINUM DISC ON
CONCRETE MONUMENT. 0.3' BELOW SURFACE
LOCATED ON SOUTHERN MARGIN OF GUILFORD ROAD
ACROSS FROM MISSION ROAD 15.4' SOUTHEAST OF
BGE POLE 271362.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Joseph Lafferty 12/27/04
DIRECTOR (RETIRING) DATE

John D. Williams 12/3/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamonts 12/14/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. REVISION

OWNER / DEVELOPER
MEADOWLARK, LLC
ATTN: MARK PRITCHETT, ALAN YOUNG
6375 HANOVER CROSSING WAY
HANOVER, MARYLAND 21076
410-796-6505

PROJECT **NORDAU SUBDIVISION**
LOTS 52-54 AND
NON-BUILDABLE PARCEL A-1, SECTION G

AREA ZONED R-12
PARCEL 448 & 107 TAX MAP 42 GRID No. 24
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE SHEET

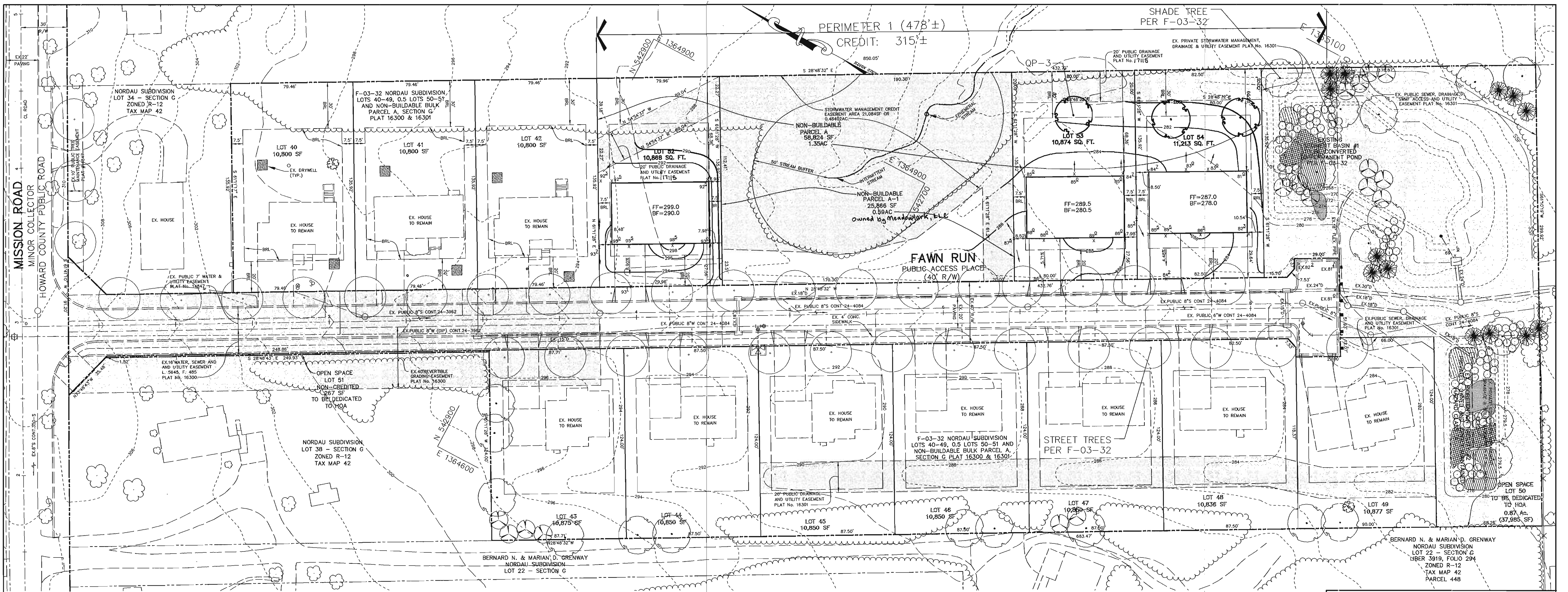
PHR&A
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY: C.J.R.
DRAWN BY: MAD
CHECKED BY: C.J.R.
PROJECT NO. 01076/1-0/ENGR/PLANS
LOTS 52-54/C000COV
DATE: NOVEMBER 10, 2004
SCALE: AS SHOWN
DRAWING NO. 1 OF 4

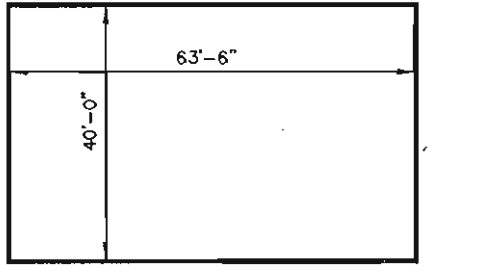
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
52	7919 FAWN RUN
53	7931 FAWN RUN
54	7935 FAWN RUN

SUBDIVISION NAME NORDAU SUBDIVISION		SECTION G	LOTS 52-54
PLAT 17115	BLOCK # 24	ZONING/TAX MAP NO. R-12 42	ELECT. DIST. 6th
WATER CODE E-14		SEWER CODE 4400000	CENSUS TRACT 6089.01

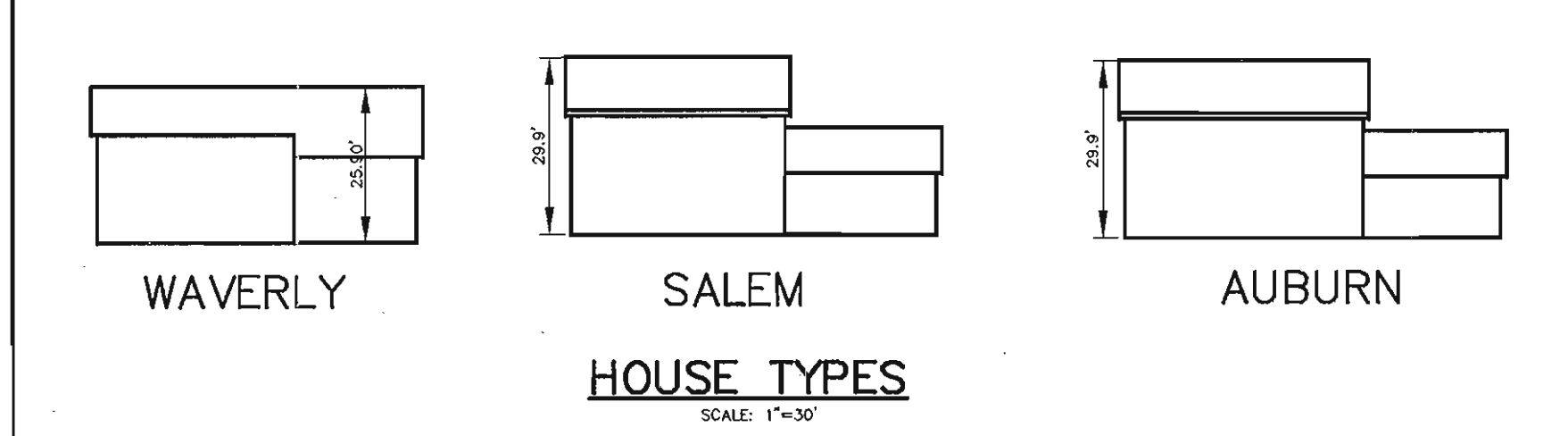
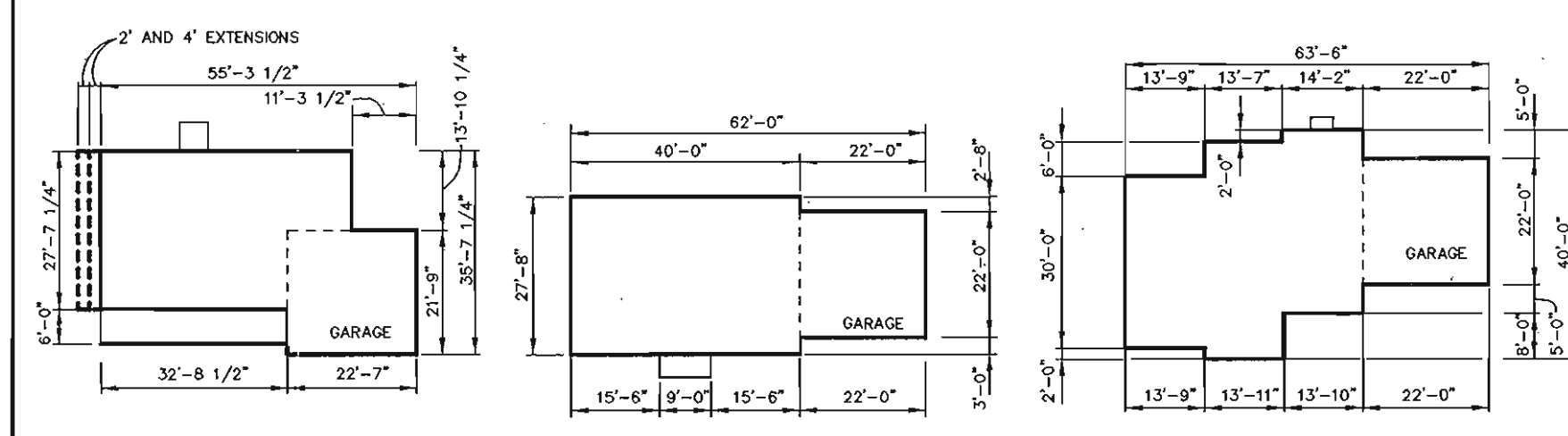
CHRISTOPHER J. REID #19949



NOTE: ALL HOUSE TYPES FIT IN GENERIC BOX 'A'.



GENERIC BOX 'A'
SCALE: 1"=30'



HOUSE TYPES
SCALE: 1"=30'

SHC CHART

LOT NO.	INV. @ PL	MCE
52	282.27	286.11
53	275.60	279.44
54	273.11	276.95

LEGEND

EXISTING 2' CONTOUR	---	302
EXISTING 10' CONTOUR	---	300
PROPOSED 2' CONTOUR	---	302
PROPOSED 10' CONTOUR	---	300
PROPERTY LINE AND RIGHT OF WAY	---	
EASEMENT	---	
FENCE	---	EX-15"D
GUARDRAIL	---	
EX. STORM DRAIN	---	
OVERHEAD WIRES	---	OH
EXISTING TREELINE	---	
PROPOSED TREELINE	---	
PROP. SPOT ELEVATION	---	13'±
100 YEAR FLOODPLAIN	---	
SETBACK LINES	---	
LIMIT OF WETLANDS	---	
EX. GABION INFLOW PROTECTION	---	
EX. REMOVABLE PUMPING STATION	---	EX.RPS

SCHEDULE A - PERIMETER LANDSCAPE EDGE

PERIMETER	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	A
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	478' ±
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 315' ±
LINEAR FEET REMAINING	163' ±
CREDIT FOR WALL, FENCE, OR BERM (YES/NO/LINEAR FEET)	NO
NUMBER OF PLANTS REQUIRED	
SHADE TREES	3
EVERGREEN TREES	0
SHRUBS	0
NUMBER OF PLANTS PROVIDED	
SHADE TREES	3**
EVERGREEN TREES	0
SMALL FLOWERING TREES	0
SHRUBS	0

SCHEDULE 'A' NOTES:
 * REGULATIONS DO NOT REQUIRE LANDSCAPE EDGES, BUFFERING, OR SCREENING BETWEEN INTERNAL LOTS OR PARCELS WITHIN THE SAME DEVELOPMENT. (PAGE 17 OF THE HO. CO. LANDSCAPE MANUAL)
 ** PLANTINGS REQUIRED UNDER F-05-07

SUBSTITUTION NOTES:
 PERIMETER 1: 315' OF EXISTING VEGETATION AND LANDSCAPING (F-03-32) WAS CREDITED FOR 51 SHADE TREES

PERIMETER PLANT LIST

SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
QP	3	Quercus phellos Willow Oak	2.5"-3" cal.	B4B	Plant as shown

- GENERAL NOTES:
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$900.00 ("ONE SHADE TREE ON LOT 53 AND TWO SHADE TREES ON LOT 54").
 - 3 SHADE TREES @ \$300 = \$900.00
 0 ORNAMENTAL TREES @ \$150 = \$0
 0 EVERGREEN TREES @ \$150 = \$0
 0 SHRUBS @ \$30 = \$0
 - THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
 - ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
 - AT THE TIME OF INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS SHALL BE OF THE PROPER HEIGHT AND/OR SPREAD REQUIREMENTS IN ACCORDANCE WITH THIS PLAN AND THE HOWARD COUNTY LANDSCAPE MANUAL.
 - NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS LANDSCAPE PLAN MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL "REDLINE REVISION" TO THE SITE DEVELOPMENT PLANS AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.
- DEVELOPER'S/BUILDER'S CERTIFICATE:
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 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 YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature: *Mark Pritchett* 11/9/04
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Director (Acting): *John Gaffney* 12/27/04
 Chief, Development Engineering Division: *Chris DeMunnick* 12/31/04
 Chief, Division of Land Development: *Cindy Hamilton* 12/16/04

DATE NO. REVISION

OWNER / DEVELOPER
 MEADOWLARK, LLC
 ATTN: MARK PRITCHETT, ALAN YOUNG
 6375 HANOVER CROSSING WAY
 HANOVER, MARYLAND 21076
 410-796-6505

PROJECT
 NORDAU SUBDIVISION
 LOTS 52-54 AND
 NON-BUILDABLE PARCEL A-1, SECTION G

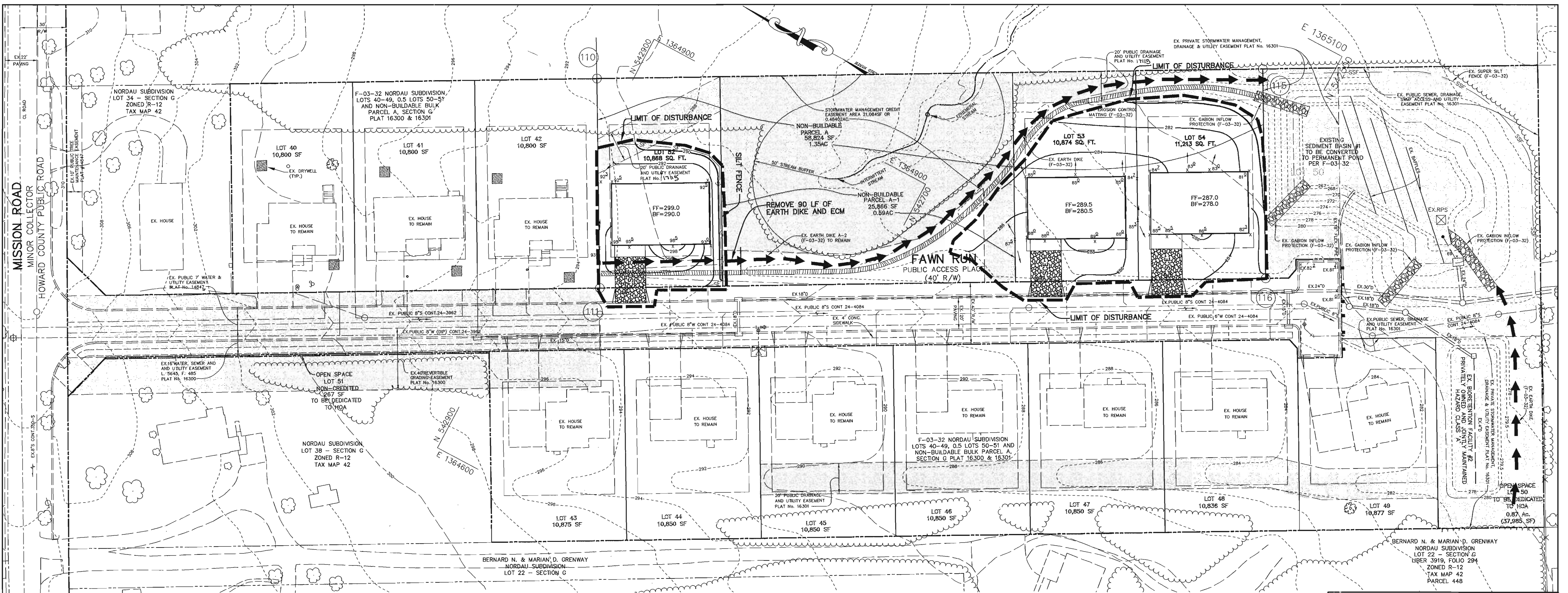
AREA
 ZONED R-12
 PARCEL 448 & 107 TAX MAP 42 GRID No. 24
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
 SITE DEVELOPMENT PLAN
 AND LANDSCAPE PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8618 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: C.J.R.
 DATE: 11.8.04
 DRAWN BY: MAD
 CHECKED BY: C.J.R.
 PROJECT NO.: 01076/1-0/ENGR/PLANS
 LOTS 52-54/C4005DP
 DATE: NOVEMBER 10, 2004
 SCALE: 1"=30'
 DRAWING NO. 2 OF 4

CHRISTOPHER J. REID #19949



NOTE: EXISTING SEDIMENT BASIN AND SEDIMENT CONTROLS PER F-03-32 ARE TO BE UTILIZED FOR THIS CONSTRUCTION.

LEGEND

EXISTING 2' CONTOUR	--- 302 ---	EX. GABION INFLOW PROTECTION	
EXISTING 10' CONTOUR	--- 300 ---	EX. REMOVABLE PUMPING STATION	⊗ EX.RPS
PROPOSED 2' CONTOUR	--- 302 ---	LIMIT OF DISTURBANCE	-----
PROPOSED 10' CONTOUR	--- 300 ---	EX. EARTH DIKE	→ → → → →
PROPERTY LINE AND RIGHT OF WAY	-----	EX. SUPER SILT FENCE	--- SSF ---
EASEMENT	-----	EX. SILT FENCE	--- SF ---
FENCE	-----	EX. EROSION CONTROL MATTING	
GUARDRAIL	-----	STABILIZED CONSTRUCTION ENTRANCE	
EX. STORM DRAIN	--- EX.15"D ---		
OVERHEAD WIRES	--- OH ---		
EXISTING TREELINE			
PROPOSED TREELINE			
PROP.SPOT ELEVATION	13'2		
100 YEAR FLOODPLAIN	-----		
SETBACK LINES	-----		
LIMIT OF WETLANDS	-----		

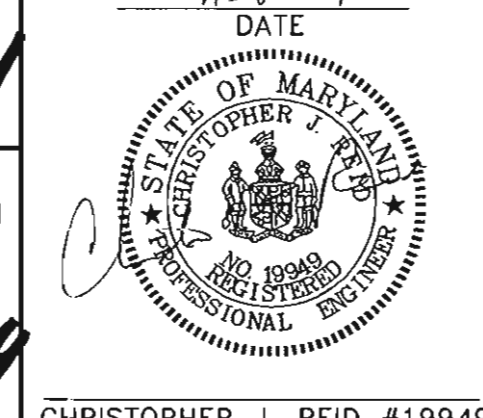
BY THE DEVELOPER :
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
Mark Pritchett 11/9/04
 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.
Chris J Reid 11.8.04
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Jim Myers 11/9/04
 NATURAL RESOURCES CONSERVATION SERVICE DATE
 THIS DEVELOPMENT PLAN IS FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Roberts 11/9/04
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Stephen Lafferty 12/2/04
 DIRECTOR (PLANNING) DATE
Patton Harris Rust 12/3/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Cindy Hamaker 12/14/04
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION
		OWNER / DEVELOPER
		MEADOWLARK, LLC ATTN: MARK PRITCHETT, ALAN YOUNG 6375 HANOVER CROSSING WAY HANOVER, MARYLAND 21076 410-796-6505
		PROJECT
		NORDAU SUBDIVISION LOTS 52-54 AND NON-BUILDABLE PARCEL A-1, SECTION G
		AREA
		PARCEL 448 & 107 TAX MAP 42 GRID No. 24 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		TITLE
		GRADING AND SEDIMENT CONTROL PLAN
		Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282
		DESIGNED BY : C.J.R.
		DRAWN BY: MAD
		CHECKED BY: C.J.R.
		PROJECT NO: 01076/1-0/ENGR/PLANS LOTS 52-54-E200ESC
		DATE : NOVEMBER 10, 2004
		SCALE : 1"=30'
		DRAWING NO. 3 OF 4



21.0 STANDARD 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 VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

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

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

CONSTRUCTION AND MATERIAL SPECIFICATIONS
I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED 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 EXPERIMENTATION STATION.

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

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
--I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

III. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
--I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
--a. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
--b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
--c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
--d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL, UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

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

--II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

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

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
--I. COMPOSTED SLUDGE MATERIAL TO BE USED AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITE HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
--a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
--b. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
--c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
--d. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE. REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

TEMPORARY SEEDING NOTES

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

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

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

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

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

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS FOR COVER.

PERMANENT SEEDING NOTES

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

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

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

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

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

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

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

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

STANDARD SEDIMENT CONTROL NOTES

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

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

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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

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

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

7. SITE ANALYSIS:

TOTAL AREA OF SITE 1.35 ACRES
AREA DISTURBED 0.66 ACRES
AREA TO BE ROOFED OR PAVED 0.19 ACRES
AREA TO BE VEGETATIVELY STABILIZED 0.47 ACRES
TOTAL CUT 605 CU. YARDS
TOTAL FILL 1859 CU. YARDS
OFFSITE WASTE AREA LOCATION TO HAVE ACTIVE GRADING PERMIT

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

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

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

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

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

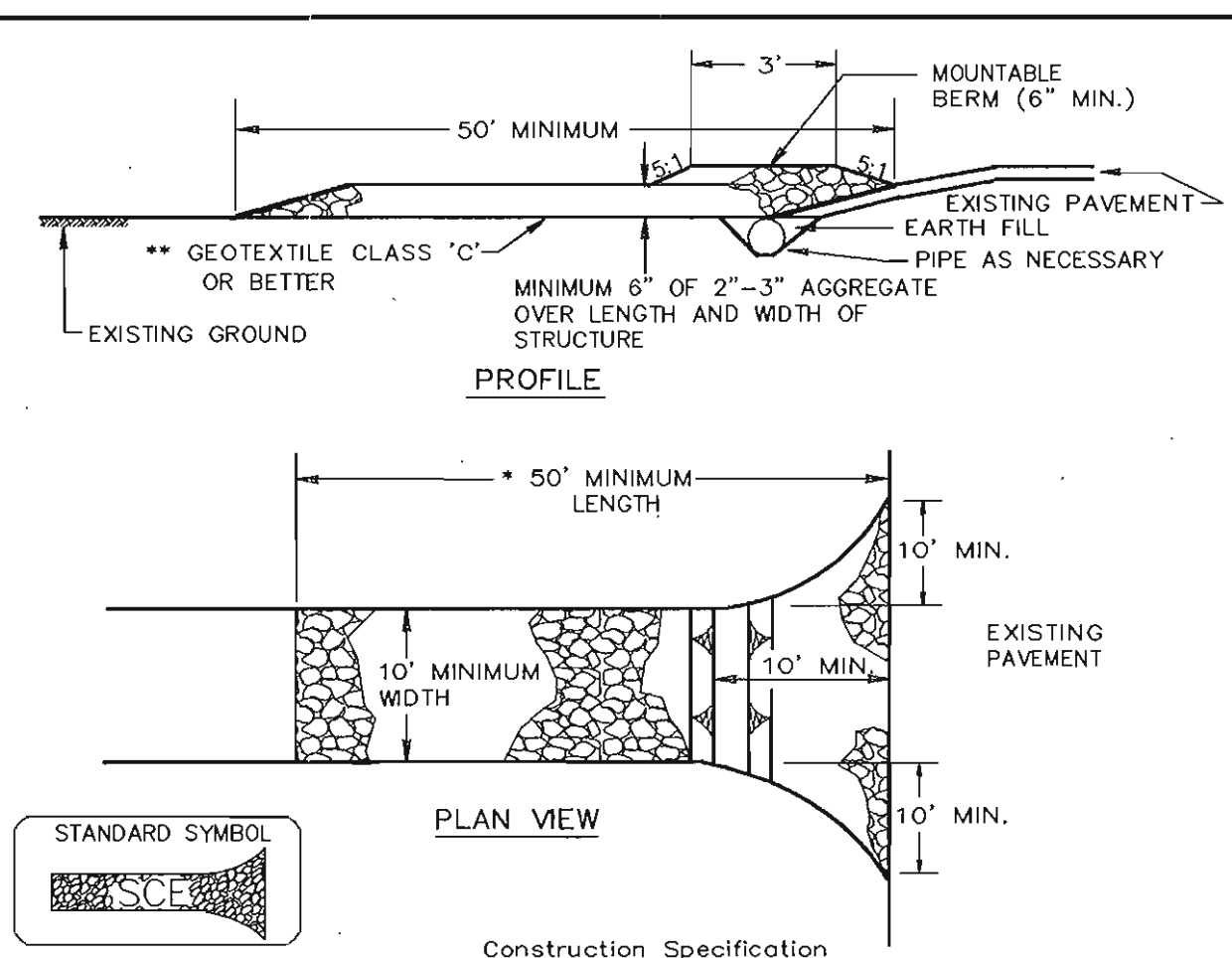
13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.

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

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMITS FOR SINGLE FAMILY HOME CONSTRUCTION.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE AND BEGIN ROUGH GRADING (2 DAYS)
- BEGIN HOUSE CONSTRUCTION.
- FINE GRADE SITE AND CONSTRUCT DRIVEWAY (4 WEEKS)
- COMPLETE HOUSE CONSTRUCTION (6 MONTHS)
- UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

30.0 - DUST CONTROL

DEFINITION
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS

- MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12' APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

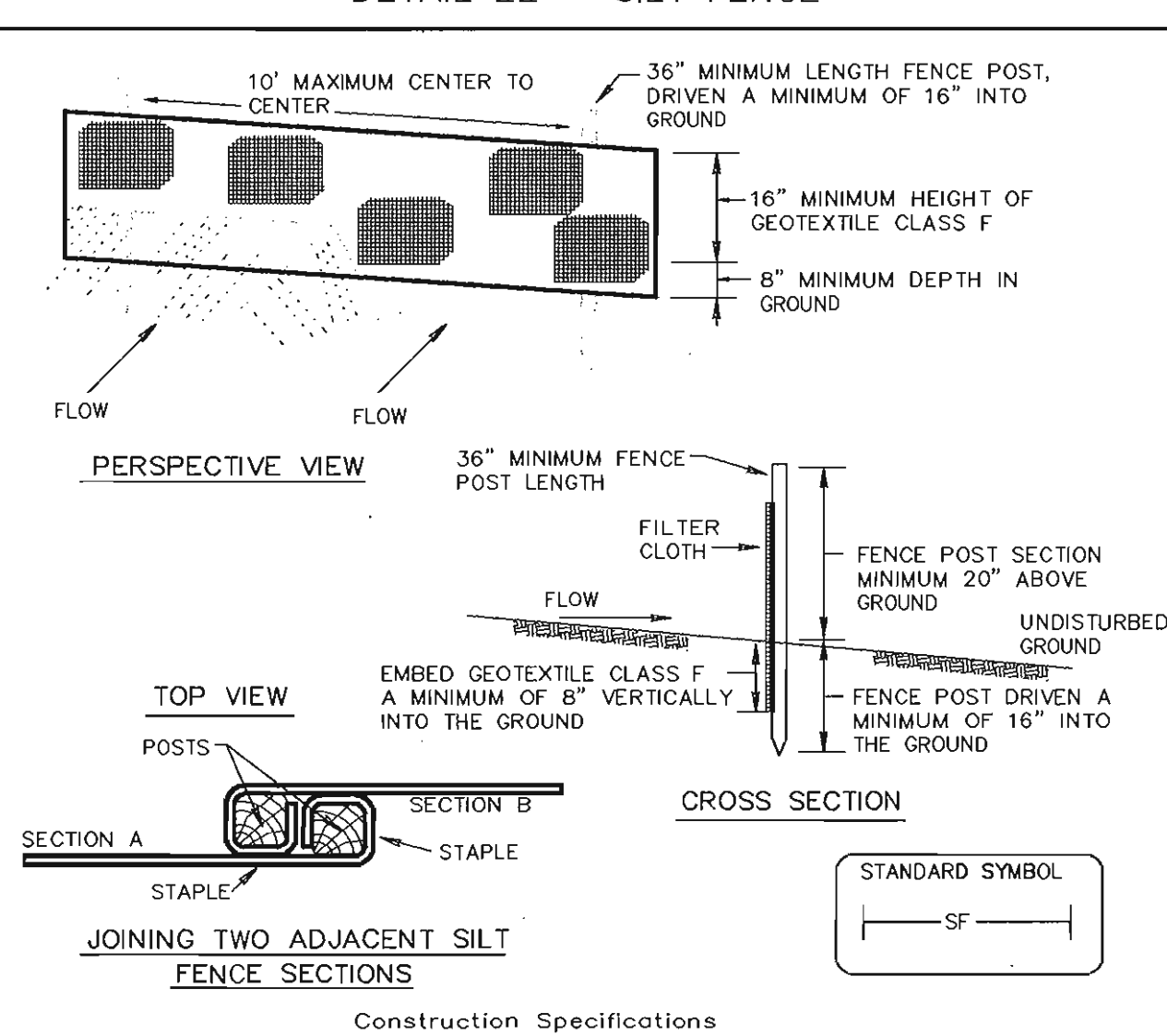
PERMANENT METHODS

- PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD, EXISTING TREES OR LARGE SHRUBS MAY OFFER VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING - COVERING WITH LESS EROSION SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

REFERENCES

- AGRICULTURE HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATES AND THEIR USES IN PREDICTING SOIL LOSS.
- AGRICULTURE INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION, USDA-ARS.

DETAIL 22 - SILT FENCE



- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
Tensile Strength 50 lbs/in (min.) Test: MSMT 509
Tensile Modulus 20 lbs/in (min.) Test: MSMT 509
Flow Rate 0.3 gal ft / minute (max.) Test: MSMT 322
Filtering Efficiency 75% (min.) Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mark A. Pritchett 11/9/04
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.

Cliff J. Reed 11.8.04
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Jim M. Jones 11/9/04
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Blunt 11/9/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Steph L. H. H. 12/2/04
DIRECTOR (ACTING) DATE

Chris D. ... 12/3/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Andy ... 12/14/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
MEADOWLARK, LLC
ATTN: MARK PRITCHETT, ALAN YOUNG
6375 HANOVER CROSSING WAY
HANOVER, MARYLAND 21076
410-796-6505

PROJECT
NORDAU SUBDIVISION
LOTS 52-54 AND
NON-BUILDABLE PARCEL A-1, SECTION G

AREA
PARCEL 448 & 107 TAX MAP 42 GRID No. 24
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
DETAIL SHEET

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

DESIGNED BY: C.J.R.
DRAWN BY: MAD
CHECKED BY: C.J.R.

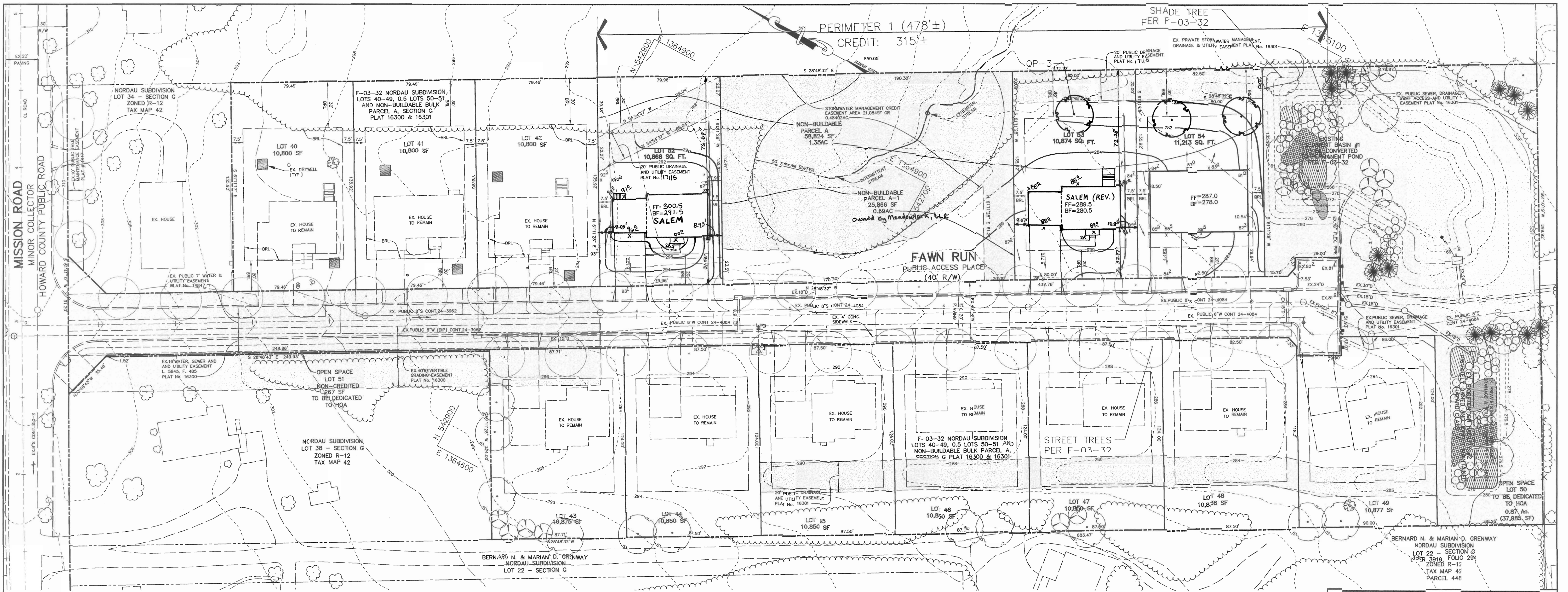
PROJECT NO: 01076/1-0/ENGR/PLANS
LOTS 52-54, 900DET

DATE: NOVEMBER 10, 2004
SCALE: AS SHOWN

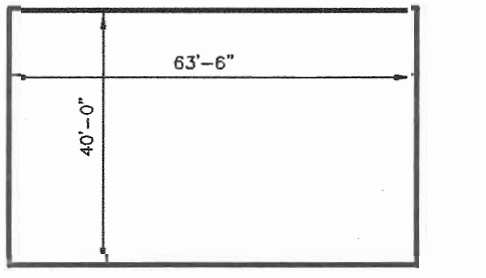
DRAWING NO. 4 OF 4

CHRISTOPHER J. REID #19949

Professional Engineer Seal for Christopher J. Reid, State of Maryland, License No. 19949.



NOTE: ALL HOUSE TYPES FIT IN GENERIC BOX 'A'.



GENERIC BOX 'A'
SCALE: 1"=30'

SHC CHART

LOT NO.	INV. @ PL	MCE
52	282.27	286.11
53	275.60	279.44
54	273.11	276.95

LEGEND

EXISTING 2' CONTOUR	---	302
EXISTING 10' CONTOUR	---	300
PROPOSED 2' CONTOUR	---	302
PROPOSED 10' CONTOUR	---	300
PROPERTY LINE AND RIGHT OF WAY	---	
EASEMENT	---	
FENCE	---	
GUARDRAIL	---	
EX. STORM DRAIN	---	EX. 15" D
OVERHEAD WIRES	---	OH
EXISTING TREELINE	---	
PROPOSED TREELINE	---	
PROP. SPOT ELEVATION	---	13.2
100 YEAR FLOODPLAIN	---	
SETBACK LINES	---	
LIMIT OF WETLANDS	---	
EX. GABION INFLOW PROTECTION	---	
EX. REMOVABLE PUMPING STATION	---	EX. EPS

SCHEDULE A - PERIMETER LANDSCAPE EDGE

PERIMETER	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	A
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	478' ±
CREDIT FOR EXISTING VEGETATION (YES/NO/ LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 315' ±
LINEAR FEET REMAINING	163' ±
CREDIT FOR WALL, FENCE, OR BERM (YES/NO/ LINEAR FEET)	NO
NUMBER OF PLANTS REQUIRED	
SHADE TREES	3
EVERGREEN TREES	0
SHRUBS	0
NUMBER OF PLANTS PROVIDED	
SHADE TREES	3**
EVERGREEN TREES	0
SMALL FLOWERING TREES	0
SHRUBS	0

SCHEDULE 'A' NOTES:
 * REGULATIONS DO NOT REQUIRE LANDSCAPE EDGES, BUFFERING, OR SCREENING BETWEEN INTERNAL LOTS OR PARCELS WITHIN THE SAME DEVELOPMENT. (PAGE 17 OF THE HO. CO. LANDSCAPE MANUAL)
 ** PLANTING REQUIRED UNDER F-05-07

SUBSTITUTION NOTES:
 PERIMETER 1: 315' OF EXISTING VEGETATION AND LANDSCAPING (F-03-32) HAS CREDITED FOR (5) SHADE TREES

PERIMETER PLANT LIST

SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
QP	3	Quercus phellos Willow Oak	2.5"-3" cal.	B&B	Plant as shown

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$900.00 ("ONE SHADE TREE ON LOT 53 AND TWO SHADE TREES ON LOT 54").
 3 SHADE TREES @ \$300 = \$900.00
 0 ORNAMENTAL TREES @ \$150 = \$0
 0 EVERGREEN TREES @ \$150 = \$0
 0 SHRUBS @ \$30 = \$0
 - THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
 - ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
 - AT THE TIME OF INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS SHALL BE OF THE PROPER HEIGHT AND/OR SPREAD REQUIREMENTS IN ACCORDANCE WITH THIS PLAN AND THE HOWARD COUNTY LANDSCAPE MANUAL.
 - NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS LANDSCAPE PLAN MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL "REDLINE REVISION" TO THE SITE DEVELOPMENT PLANS AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.
- DEVELOPER'S/BUILDER'S CERTIFICATE:**
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 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 YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature: *Mark Pritchett* 11/9/04
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Director: *John Gaffney* 12/27/04
 Chief, Development Engineering Division: *Chris Hambley* 12/31/04
 Chief, Division of Land Development: *Chris Hambley* 12/31/04

12/01/05 2 REV. FFE & ADDED HOUSE TYPE TO LOT 52
 11/28/05 1 ADDED HOUSE TYPE TO LOT 53

OWNER / DEVELOPER
 MEADOWLARK, LLC
 ATTN: MARK PRITCHETT, ALAN YOUNG
 6375 HANOVER CROSSING WAY
 HANOVER, MARYLAND 21076
 410-796-6505

PROJECT: NORDAU SUBDIVISION
 LOTS 52-54 AND
 NON-BUILDABLE PARCEL A-1, SECTION G

AREA: PARCEL 448 & 107 TAX MAP 42 GRID No. 24
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN
 AND LANDSCAPE PLAN

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

DESIGNED BY: C.J.R.
 DRAWN BY: MAC
 CHECKED BY: C.J.R.
 PROJECT NO: 0107571-0/ENGR/PLANS
 LOTS 52-54/CA050P
 DATE: NOVEMBER 10, 2004
 SCALE: 1"=30'
 DRAWING NO. 2 OF 4

