### SHEET INDEX TITLE SHEET ROAD CONSTRUCTION PLAN AND PROFILES GRADING AND SEDIMENT & EROSION CONTROL NOTES AND DETAILS STORM DRAIN PROFILES AND SEDIMENT & EROSION CONTROL NOTES STORM DRAIN DRAINAGE AREA MAP

4 - 4								
DENSITY TABULATION						UNITS	TOTAL UNITS	
PHASE	GROSS AREA	FLOODPLAIN STEEP SLOPES		NET AREA	UNITS ALLOWED	PROPOSED	REMAINING	
TOTAL	83.27 AC (R-ED) 4.42 AC (POR)*	1.62 AC. 0.00 AC.	8.36 AC. 0.00 AC.	73.29 AC. 4.42 AC.	146 D.U. N/A	144 D.U.** N/A	144 D.U. N/A	
1 (F-01-60)	50.46 AC. (R-ED)***	1.62 AC.	8.36 AC.	40.48 AC.	80 D.U.	42 D.U.	102 D.U.	
2 (F-01-206)	0.89 AC. (R-ED)***	0.00 AC.	0.00 AC.	0.89 AC.	1 D.U.	3 D.U.	99 D.U.	
3 (F-02-170)	2.06 AC. (R-ED)***	0.00 AC.	0.00 AC.	2.06 AC.	4 D.U.	5 D.U.	94 D.U.	
4								
5			,					
6		:						
7								
8								
9								

\*THE POR ZONED AREA RECORDED AS NON-BUILDABLE PARCEL 'A' (3.23 AC.) ON WORTHINGTON FIELDS PHASE 1 PLAT NO. 14946-14955. HAS SUBSEQUENTLY BEEN RESUBDIVIDED TO CREATE VILLAGE CREST, PARCELS A-1, A-2 AND NON-BUILDABLE PARCEL A-3 AND RECORDED AS PLAT NO. 15359. THE REMAINING PORTION OF THE POR ZONED AREA (1.19 AC.) HAS BEEN DEDICATED TO HOWARD COUNTY, MARYLAND, FOR THE PURPOSE OF A PUBLIC ROAD AS PER WORTHINGTON FIELDS PHASE 1, PLAT NO. 14946-14955 \*\*MAXIMUM ALLOWABLE DENSITY OF 144 UNITS APPROVED UNDER S-98-18. \*\*\*DOES NOT INCLUDE RESIDUE PORTIONS OF NON-BUILDABLE PARCEL 'B'

LOCATION: TAX MAPS 25 & 31, BLOCKS 20 & 2, P/O PARCEL 98

2ND ELECTION DISTRICT EXISTING ZONING: R-ED

TOTAL AREA OF SITE: 83.27 AC.(R-ED)

AREA OF PHASE 3 PLAN SUBMISSION: 2.0394 AC (R-ED)

AREA OF PROPOSED BUILDABLE LOTS: 1.3267 AC. AREA OF PROPOSED ROAD RIGHT OF WAY: 0.7127 AC

OPEN SPACE TABULATIONS: 0.00 AC. AREA OF 100 YEAR FLOODPLAIN ON SITE: 0.00 AC

NUMBER OF LOTS/PARCELS PROPOSED: 5 BUILDABLE

LIMIT OF DISTURBANCE FOR PHASE 3 PLAN SUBMISSION: 3.52 AC±

#### GENERAL NOTES

1. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. 2. DEED REFERENCE: L.5611/F.318

PROJECT BACKGROUND: LOCATION: TAX MAP 25, GRID 20 AND TAX MAP 31, GRID 2, P/O PARCEL 98

TOTAL PARCEL AREA: 83.67 AC. + PHASE 3: 2.0394 AC

NUMBER OF PROPOSED LOTS: 5 BUILDABLE

APPLICABLE DPZ FILE NUMBERS: S-98-18, PB-336 (APPROVED 6/16/99), P-00-07, F-01-60 (PHASE 1), F-01-206 (PHASE 2), P-02-08

THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS, & CARTER, INC., DATED OCTOBER, 1998.

5. THE TOPOGRAPHY SHOWN HEREON IS BASED ON AERIAL PHOTOGRAMETRIC BY WINGS AERIAL MAPPING COMPANY, INC. DATED MARCH 1995.

 WATER AND SEWER FOR THIS PROJECT WILL BE PUBLIC. (CONTR. # 14-4026-D) 7. STORMWATER MANAGEMENT (2 YR AND 10 YR) IS PROVIDED UNDER PHASE 1, F-01-60,

BY A WET POND.

8. THERE ARE NO WETLANDS OR STREAMS WITHIN THIS PHASE.

9. THERE IS NO FLOODPLAIN LOCATED WITHIN THIS PHASE. 10. FOREST CONSERVATION PLAN PREPARED BY EXPLORATION RESEARCH, INC., DATED OCTOBER, 1999, FOR THE ENTIRE SITE. FOREST STAND DELINEATION PLAN PREPARED BY CHESAPEAKE ENVIRONMENTAL, DATED MARCH 1995 AND APPROVED UNDER S-98-18. FOREST CONSERVATION OBLIGATIONS HAVE BEEN MEET BY 5 FOREST CONSERVATION RETENTION EASEMENTS TOTALING! 20.32 AC LOCATED IN OPEN SPACE LOTS 145 AND 147, PHASE 1 (F-01-60), AND A PLANNED FOREST CONSERVATION RETENTION EASEMENT OF 10.28 AC TO BE LOCATED IN FUTURE OPEN SPACE LOT 149, PHASE 7, TO MEET THE TOTAL RETENTION OBLIGATION OF 30.6 AC FOR THE ENTIRE

11. A TRAFFIC STUDY FOR WORTHINGTON FIELDS, PHASES 1-9, WAS PREPARED BY THE TRAFFIC GROUP, INC., DATED JUNE 8, 1998, AND APPROVED UNDER S-98-18 AND P-02-08, WORTHINGTON FIELDS, PHASE 3.

12. THERE ARE NO EXISTING STEEP SLOPES WITHIN THIS PHASE.

13. A NOISE STUDY IS NOT REQUIRED FOR THIS SITE. 14. ALL LANDSCAPING REQUIREMENTS AS SET FORTH IN SECTION 16.124 OF THE SUBDIVISION REGULATIONS AND THE HOWARD COUNTY LANDSCAPE MANUAL WILL THE BE COMPLIED WITH. THE REQUIRED TYPE 'B' FOR LOTS 50 AND 53 WILL BE ADDRESSED ON THE FUTURE SITE DEVELOPMENT PLAN.

15. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE TREES ON FINEST HOUR COURT, A PRIVATE ACCESS PLACE, TO BE POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$5100.00 FOR 17 SHADE TREES. FINANACIAL SURETY FOR THE REQUIRED STREET TREES ON RIVIERA SUN DRIVE, A PUBLIC ACCESS STREET, TO BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$9000.00 FOR 30 STREET TREES.

16. THIS PROPERTY IS LOCATED IN THE WORTHINGTON SCHOOL DISTRICT.

17. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL/CEMETARY LOCATIONS ON SITE. 18. REFERENCE PLANNING BOARD CASE PB-336 FOR APPROVAL OF THIS DEVELOPMENT WITHIN THE R-ED DISTRICT ON JUNE 16, 1999, SUBJECT TO THE FOLLOWING CONDITIONS: SUBJECT TO THE FOLLOWING CONDITIONS:

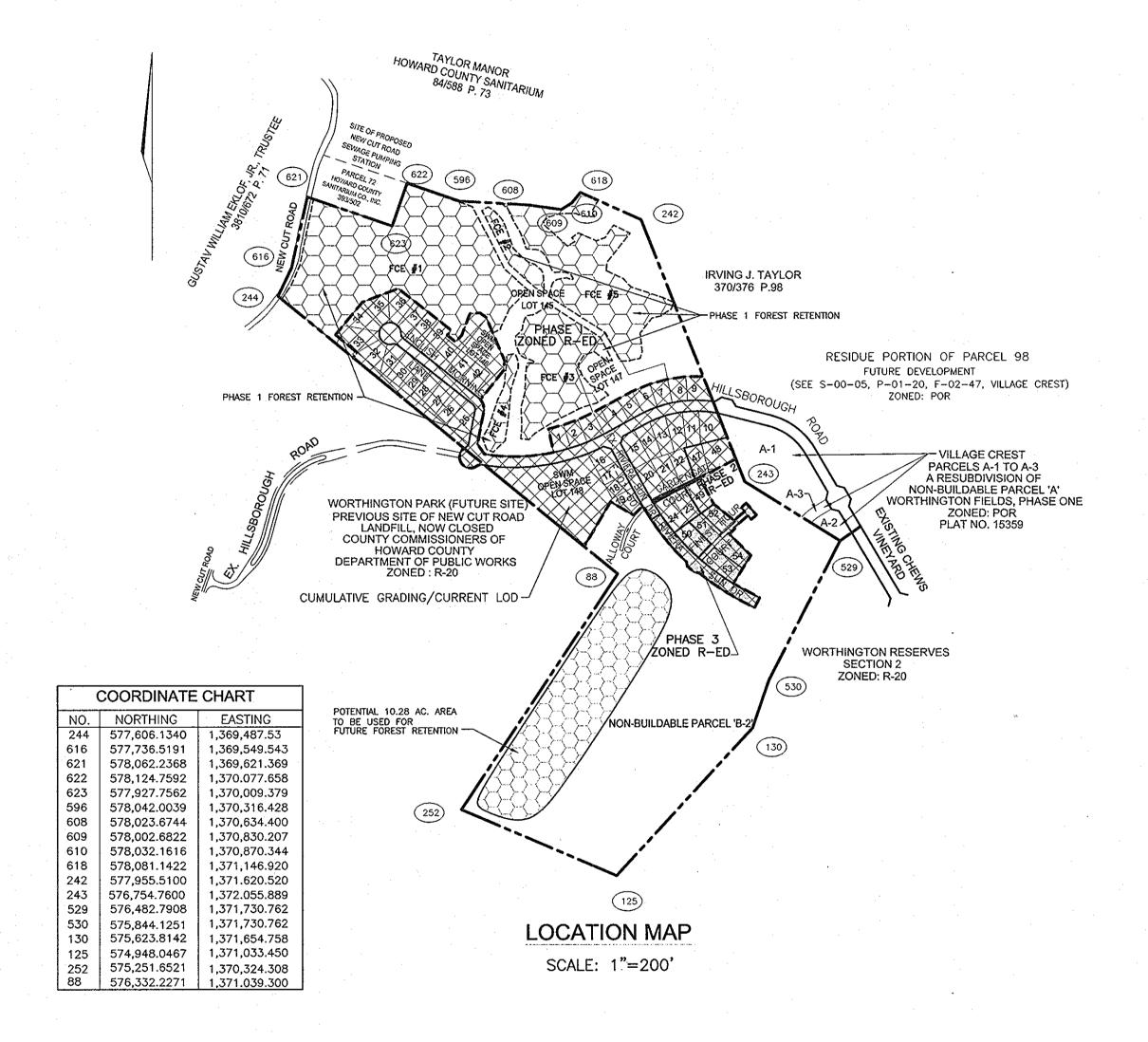
1. COMPLIANCE WITH THE SUBDIVISION REVIEW COMMITTEE COMMENTS FOR SKETCH PLAN S-98-19. 2. THE DEVELOPERS SHALL PROVIDE PEDESTRIAN ACCESS FROM THIS SUBDIVISION TO THE ADJACENT WORTHINGTON ELEMENTARY SCHOOL SITE.

19. AS A RESULT OF THIS PRELIMINARY PLAN BEING SUBMITTED TO THE COUNTY FOR REVIEW PRIOR TO 11/15/01, IT IS SUBJECT TO COMPLIANCE WITH THE FOURTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. IN ADDITION, BECAUSE THIS PHASE OF THE SUBDIVISION DID NOT OBTAIN SIGNATURE APPROVAL OF THIS PRELIMINARY PLAN FOR IT PRIOR TO 11/01/01, IT IS SUBJECT TO COMPLIANCE WITH COUNTY COUNCIL BILL 50-2001 WHICH AMENDS THE ZONING REGULATIONS, AND THE AMENDED ZONING REGULATIONS WHICH BECOME EFFECTIVE ON 01/08/02.

12-17-62

# FINAL ROAD CONSTRUCTION PLAN WORTHINGTON FIELDS

PHASE 3 LOTS 50-54 AND NON-BUILDABLE 'PARCEL B-2' A RESUBDIVION OF NON-BUILDABLE PARCEL 'B-1' PHASE 2 HOWARD COUNTY, MARYLAND



					<u> </u>					
FOREST CONSERVATION TABULATION (LAND USE: HDR)										
	F-01-60	F-01-206	F-02-170		•		•	•		
PHASES	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9	ENTIRE SITE
TOTAL TRACT AREA	47.22 AC	0.89 AC	2.04 AC							83.27 AC
FLOODPLAIN	1.62 AC	0.00 AC	0.00 AC						:	1.62 AC
NET TRACT AREA	45.60 AC	0.89 AC	2.04 AC							81.65 AC
AFFORESTATION -15%	6.84 AC	0.13 AC	0.31 AC							12.25 AC
REFORESTATION -20%	9.12 AC	0.18 AC	0.41 AC	·						16.33 AC
EX. FOREST LESS FLOODPLAIN	31.37 AC	0.00 AC	0.00 AC							51.10 AC
FOREST ABOVE AFF. THRESHOLD	24.61 AC	0.00 AC	0.00 AC						*	38.85 AC
FOREST ABOVE REF. THRESHOLD	22.25 AC	0.00 AC	0.00 AC	·						34.75 AC
BREAK EVEN POINT	13.57 AC	N/A	N/A							23.29 AC
RET. W. NO MITIGATION REQUIRED	13.57 AC	N/A	N/A							23.29 AC
CLEARING W. NO MITIGATION REQUIRED	17.80 AC	N/A	N/A							27.81 AC
FOREST AREA CLEARED	11.05 AC	0.00 AC	0.00 AC						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	27.50 AC
FOREST AREA RETAINED	20.32 AC	0.00 AC	0.00 AC		:		10.28 AC			30.60 AC
REFOREST FOR AREA ABOVE CON.THRESH.	2.76 AC	0.00 AC	0.00 AC							6.95 AC
REFOREST FOR AREA BELOW CON.THRESH.	0.00 AC	0.00 AC	0.00 AC							0.00 AC
CREDIT FOR RETENTION ABOVE CON.THRESH.	11.20 AC	0.00 AC	0.00 AC							6.96 AC
TOTAL REFORESTATION REQUIRED	0.00 AC	0.00 AC	0.00 AC							0.00 AC
TOTAL AFFORESTATION REQUIRED	0.00 AC	N/A	N/A							0.00 AC
TOTAL RE AND AFFORESTATION REQUIRED	0.00 AC	0.00 AC	0.00 AC					-		0.00 AC
RE/AFFORESTATION PROVIDED	0.00 AC	0.00 AC	0.00 AC							0.00- AC

1. THIS PLAN IS IN ACCORDANCE WITH APPROVED SKETCH PLAN S-98-18. NOTE THAT THE 4.42 ACRE (3.23 AC. AFTER DEDICATION TO ROADS) POR ZONED NON-BUILDABLE PARCEL A IS NOW PART OF VILLAGE CREST SUBDIVISION. FOREST CONSERVATION FOR THAT PARCEL IS PROVIDED IN VILLAGE CREST F-02-47. 2. IN ACCORDANCE WITH APPROVED PB-366 AND S-98-18, A MINIMUM OF 30.60 AC. OF FOREST RETENTION IS REQUIRED FOR THE ENTIRE WORTHINGTON FIELDS SUBDIVISION AREA. THIS INCLUDES A STATEMENT THAT FOREST CONSERVATION OBLIGATIONS CAN BE MET BY RETENTION OF FOREST STANDS EQUAL TO OR ABOVE THE BREAK-EVEN-POINT. ANY CHANGES TO THE PLAN WHICH ARE NOT IN ACCORDANCE WITH THE SKETCH PLAN EXHIBIT THAT WAS SUBMITTED AT PLANNING BOARD

WILL REQUIRE ANOTHER PLANNING BOARD HEARING.

BENCHMARK NO. 1: COUNTY CONTROL #3044005R ~ 3/4" REBAR 0.8' BELOW SURFACE N. 578233.92, E. 1373142.33 ELEV. = 374.389BENCHMARK NO. 2: COUNTY CONTROL #3044004R ~

3/4" REBAR 0.6' BELOW SURFACE

N. 578128.03, E. 1373460.71

ELEV. =362.575

OPEN SPACE TABULATION									
HASE	TOTAL AREA	REQUIRED OPEN SPACE*		PROVIDED NON-CREDITED OPEN SPACE	TOTAL PROVIDED OPEN SPACE	OPEN SPACE IN RESERVE	REQ. REC. OPEN SPACE*	PROV. REC. OPEN SPACE	REC. O.S. IN RESERVE
TOTAL SUBDIVISION	83.27 AC.	20.82 AC.	_		_		0.83 AC.	. <b>-</b>	<b>–</b>
1 (F-01-60)	50.46 AC.***	12.62 AC.	32.49 AC. (39%)	0.54 AC.	33.03 AC.	19.87 AC.	0.24 AC.	1.01 AC.	0.77 AC.
2 (F-01-206)	0.89 AC.***	0.22 AC.	0.00 AC.	0.00 AC.	0.00 AC.**	19.65 AC.	0.02 AC.	0.00** AC.	0.75 AC.
3 (F-02-170)	2.06 AC***	0.52 AC.	0.00 AC.	0.00 AC.	0.00 AC.**	19.13 AC.	0.03 AC.	0.00** AC.	0.72 AC.
4									,
5							A		
6		·				4 4			
7									
8					,	1		·	
9									
TOTAL	53.41 AC***	13.36 AC.	32.49 AC.	0.54 AC.	33.03 AC.	19.13 AC.	0.29 AC.	1.01 AC.	0.72 AC.

\*REQUIRED OPEN SPACE CALCULATED FOR THE ENTIRE R-ED PORTION OF THE SUBDIVISION AS 25% OF GROSS AREA, (83.27 AC. X 25% = 20.82 AC.) REQUIRED RECREATIONAL OPEN SPACE CALCULATED AS 250 SF PER

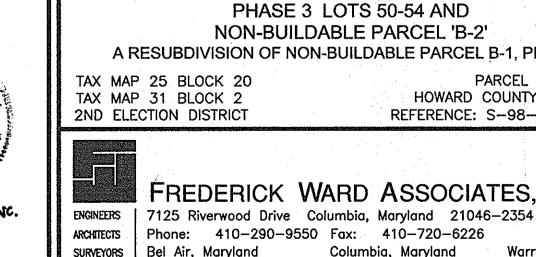
D.U.  $(144 \text{ D.U. } \times 250 \text{ SF} = 36,000 \text{ SF OR } 0.83 \text{ AC})$ \*\*REQUIRED OPEN SPACE AND REQUIRED RECREATIONAL OPEN SPACE FOR THE ENTIRE SUBDIVISION PROVIDED

UNDER WORTHINGTON FIELDS PHASE 1, PLAT NO. 14946-14955. \*\*\*DOES NOT INCLUDE RESIDUE PORTIONS OF NON-BUILDABLE PARCEL 'B' TO BE DEVELOPED IN FUTURE PHASES.

> **WORTHINGTON FIELDS** A RESUBDIVISION OF NON-BUILDABLE PARCEL B-1, PHASE 2 TAX MAP 25 BLOCK 20 TAX MAP 31 BLOCK 2 2ND ELECTION DISTRICT

OWNER TAYLOR FAMILY LIMIMTED PARTNERSHIP B 4100 COLLEGE AVENUE ELLICOTT CITY, MARYLAND 21043

DEVELOPER NEW CUT ROAD DEVELOPMENT 2, INC. C/O LAND DESIGN & DEVELOPMENT, INC. 8000 MAIN STREET ELLICOTT CITY, MARYLAND 21043 ATTN: MR. DONALD R. REUWER PHONE: (410) 480-9105



FREDERICK WARD ASSOCIATES, INC.

Phone: 410-290-9550 Fax: 410-720-6226 surveyors | Bel Air, Maryland Columbia, Maryland DESIGN BY: DRAWN BY:

CHECKED BY: SCALE: W.O. NO.:

REVISION

TITLE SHEET

PHASE 3 LOTS 50-54 AND

NON-BUILDABLE PARCEL 'B-2'

SHEET

HOWARD COUNTY, MARYLAND

REFERENCE: S-98-18, P-02-08

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, DIVISION OF LAND DEVELOPMENT

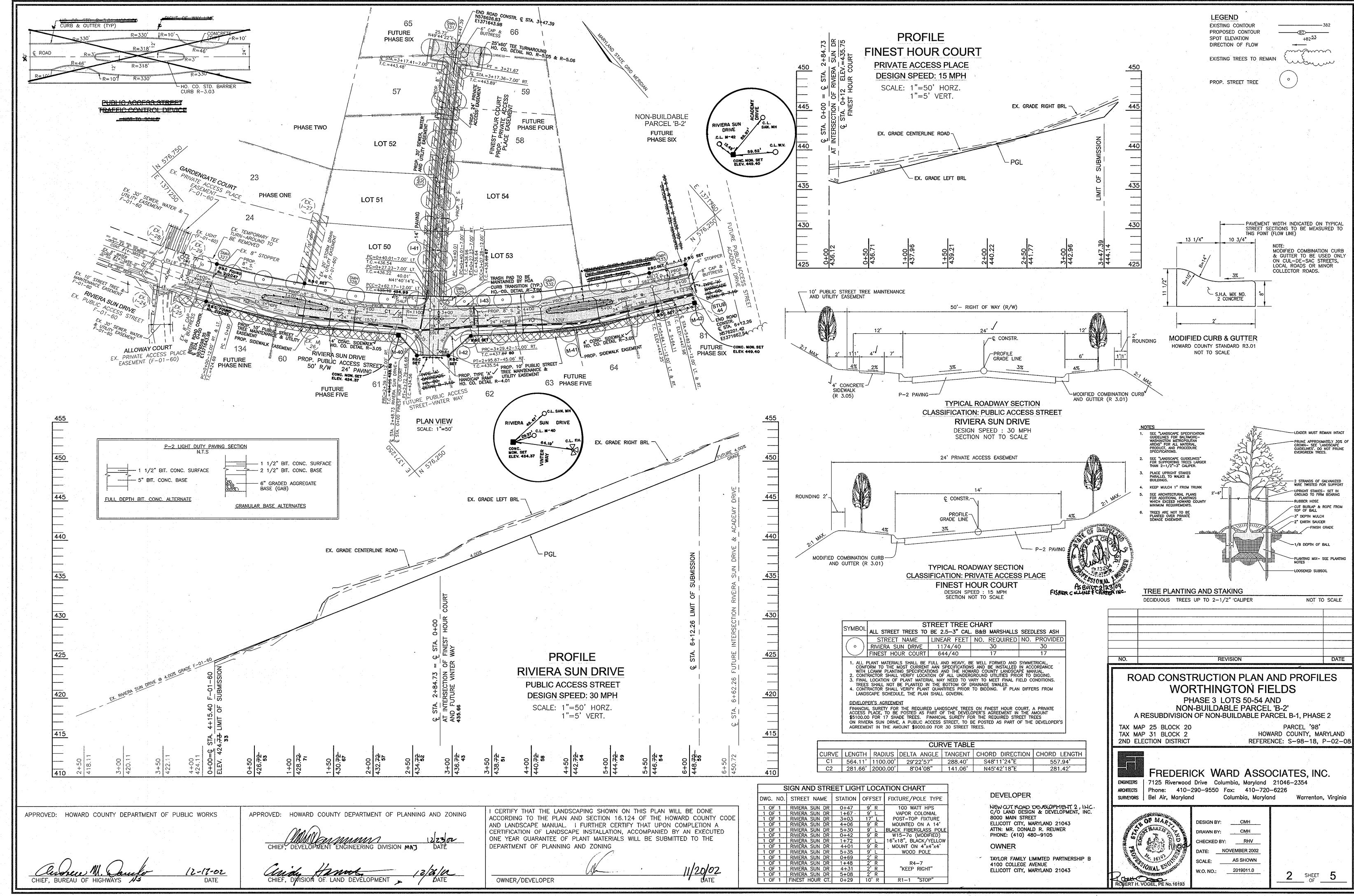
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

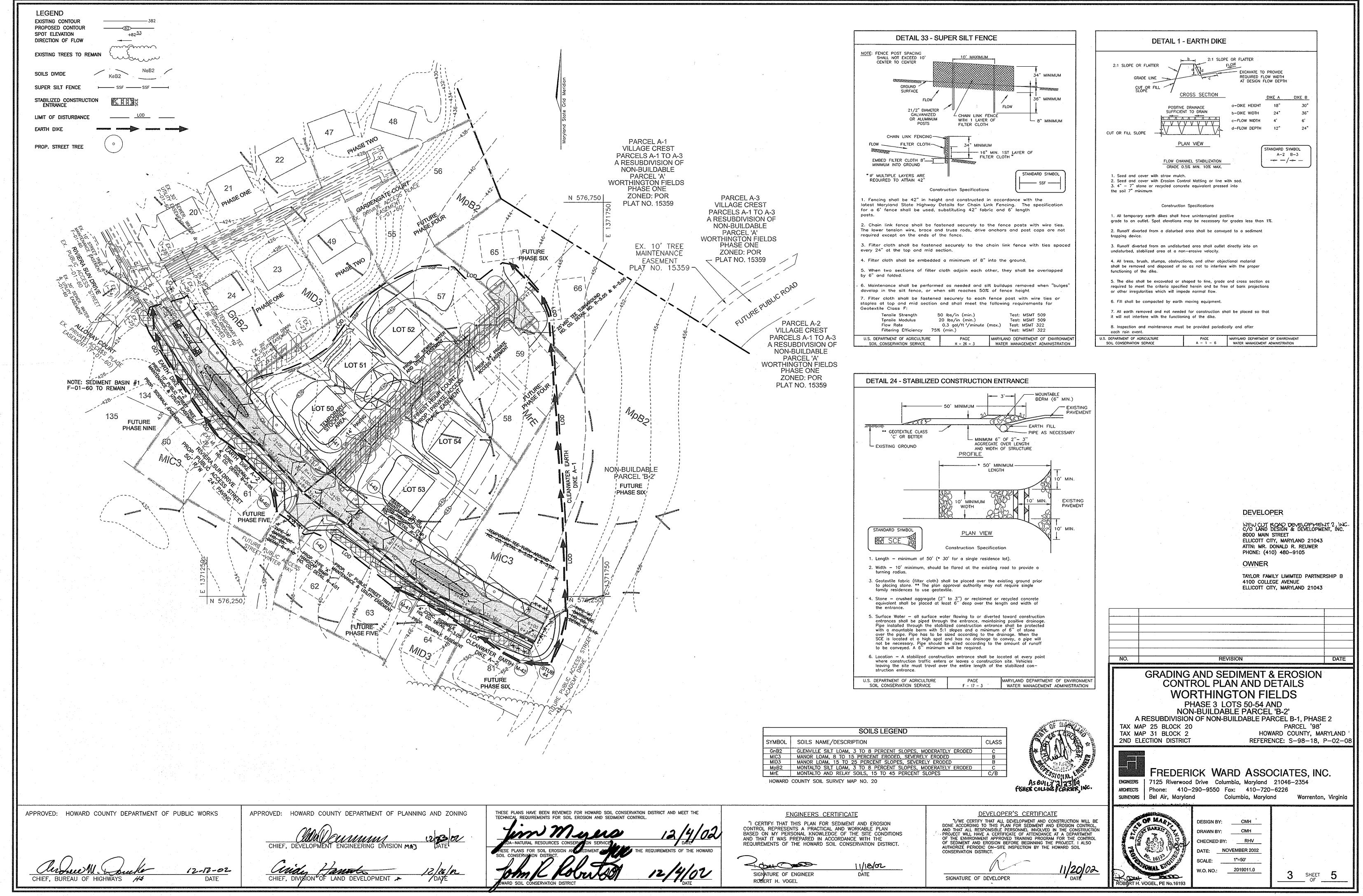
LOPMENT ENGINEERING DIVISION MAJ

AS-BUILT

F-02-170

Warrenton, Virginia





# EX. GROUND ~PROP. GRADE 430 @ 1.00% Q<sub>10</sub>=2.24 CFS V<sub>10</sub>=5.41 FPS 428.93 125 **425.07** STORM DRAIN PROFILE

SCALE: HORZ. 1"=50'

DURATION

2 DAYS

2 WEEKS

3 DAY 1 MONTH

2 WEEKS

1 WEEK

1 WEEKS

VERT. 1"=5"

**\41** 40 EX. GROUND PROP. GRADE 430 - 15" HDPE 0 1.00% Q<sub>10</sub>=5.08 CFS V<sub>10</sub>=6.66 FPS  $\frac{8'' \text{ S.}}{426.78}$   $\psi$   $\psi$   $V_{t} = 4.14 \text{ FPS}$   $S_{t} = 0.44\%$ 422.80 GRANITE -BOTTOM

STORM DRAIN PROFILE SCALE: HORZ. 1"=50'

VERT. 1"=5"

## 21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

#### DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE 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** 

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. B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING

ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH

D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH

CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS. C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

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

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 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 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS ROOTS, TRASH, OR OTHER MATERIALS LARGER THAT 1 AND 1/2" IN

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

III. 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.

II. 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

HE 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 000 PARTS PER MILLION SHALL NOT BE USED.

D. NO SOD OR SEED SHALL BE PLACED ON SOIL 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 OR 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 AMMENDMENTS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION-SECTION I-VEGETATIVE

V. TOPSOIL APPLICATION

STABILIZATION METHODS AND MATERIALS.

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, ALBEIT 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 PLACE 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.

#### STORM DRAIN PROFILE SCALE: HORZ. 1"=50"

VERT. 1"=5"

PIPE SCHEDULE							
PIPE SIZE	TYPE	TOTAL LENGTH					
15"	HDPE	78 LF					
24"	HDPE	506 LF					

		<u> </u>		,							
	STRUCTURE SCHEDULE										
NO.	TYPE	LOCATION	TOP ELEV.	INV IN	INV OUT	REMARKS					
1-41	A−10 INLET ✓	N 576415. <del>96</del> E 137141 <del>3.42</del>	436. <del>41</del> <b>29</b>	- 2,83	15" 43 <del>1.66</del> <b>2.38</b>	SD 4.41					
1-42	A-5 INLET	N 57634 <del>0.34</del> E 1371426. <del>40</del> -	1	15" 43 <del>4.23</del> 24" 42 <del>6.79</del>	24" 42 <del>6.69</del> <b>5.07</b>	SD 4.40					
1-43	A−10 INLET ✓	N 576361.4 <del>7</del> E 137144 <del>3.61</del> 2.62	438.0 <del>0</del>	_ 5.11 _18 <sup>H</sup> 429.72	15" 43 <del>4.47.</del> <b>3.8</b> i	SD 4.41					
M-40	STANDARD 5' MANHOLE	N 5763 <del>81.28</del> E 137137 <del>1.39</del> <b>79.68 2.57</b>	434 <del>.93</del> <b>5.17</b>	15" <del>431.12</del> 24" <del>423.59</del> <b>\</b>	24 <b>"</b> 42 <del>3.49</del> <b>2.80</b>	G 5.13					
M-41	STANDARD 5' MANHOLE	N 576257. <del>38</del> E 13715 <del>29.57</del> <b>30.33</b>	44 <del>3.21</del> <b>2.93</b>	24" 43 <del>3,49</del> <b>0.77</b>	24 <b>"</b> 43 <del>3,39</del> <b>0.78</b>	G 5.13					
M-42	STANDARD 5' MANHOLE	N 57619 <del>5.78</del> E 137165 <del>3.46</del> <b>2.93</b>		24" 4 <del>40.39</del> <b>35.98</b>	24" 4 <del>40.49</del> <b>35.94</b>	G 5.13					
					_428.98 422.99						

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT AND OBTAIN MDE PERMIT FOR STREAM CROSSING 2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.

3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND INSTALL PERIMETER SUPER SILT FENCE & EARTHDIKE 4. INSTALL UTILITES. 5. WITH INSPECTOR'S APPROVALS CLEAR AND GRUB SITE TO LOD. 6. GRADE ROAD TO SUB-BASE AND INSTALL CURB AND GUTTER

7. BEGIN ROAD GRADING. 8. AS PAVING IS COMPLETED, INSTALL SIDEWALK. 7. WITH INSPECTOR'S APPROVAL AND WITH ROAD PAVING COMPLETE STABILIZE CONTRIBUTING DRAINAGE AREAS AND INSTALL STREET TREES.

1. DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN 2. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLIED WITH: A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL

STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES SLOPES AND ALL SLOPES GREATER THAN 3:1. B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

### PERMANENT SEEDING NOTES

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

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES: 1) PREFERRED-APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/ 100 SQ.FT.) AND 600 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.)

2) ACCEPTABLE-APPLY 2 TONS PER ACRE DOLOMATIC 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 THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 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 (.05 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 KENTLICKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED KENTUCKY 31 TALL FESCÙÉ AND MULCH WITH 2 TONS/ACRE WELL ANCHORED

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED 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.

# TEMPORARY SEEDING NOTES

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

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 OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH : LBS. PER ACRE OF WEEPING LOVEGRASS (.07 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

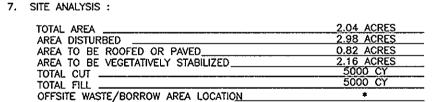
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REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

# SEDIMENT CONTROL NOTES

DESIGN MANUAL, STORM DRAINAGE.

- 1. 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 REDISTURBANCE, 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 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 THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY
- 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. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT 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.



- 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.
- \* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT





# ELLICOTT CITY, MARYLAND 21043

OWNER

DEVELOPER

8000 MAIN STREET

TAYLOR FAMILY LIMIMTED PARTNERSHIP B 4100 COLLEGE AVENUE

ELLICOTT CITY, MARYLAND 21043

ATTN: MR. DONALD R. REUWER

PHONE: (410) 480-9105

HEW CUT ROAD DEVELOPMENT 2, INC.

STORM DRAIN PROFILES AND **SEDIMENT & EROSION CONTROL NOTES WORTHINGTON FIELDS** 

REVISION

PHASE 3 LOTS 50-54 AND NON-BUILDABLE PARCEL 'B-2'

A RESUBDIVISION OF NON-BUILDABLE PARCEL B-1, PHASE 2 TAX MAP 25 BLOCK 20 PARCEL '98' TAX MAP 31 BLOCK 2 HOWARD COUNTY, MARYLAND 2ND ELECTION DISTRICT REFERENCE: S-98-18, P-02-08



FREDERICK WARD ASSOCIATES, INC.

ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354 Phone: 410-290-9550 Fax: 410-720-6226 ARCHITECTS surveyors | Bel Air, Maryland Columbia, Maryland Warrenton, Virginia



DESIGN BY: CMH DRAWN BY: CHECKED BY: NOVEMBER 2002 DATE: AS SHOWN SCALE: 2019011.0

SHEET \_\_ OF \_

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

12-17-02 CHIEF. BUREAU OF HIGHWAYS 43

Mommun ENGINEERING DIVISION MAY CHIEF, DIVISION OF LAND DEVELOPMENT \*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

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

ENGINEERS CERTIFICATE "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

-Kotost Occo 11/18/02 SIGNATURE OF ENGINEER DATE ROBERT H. VOGEL

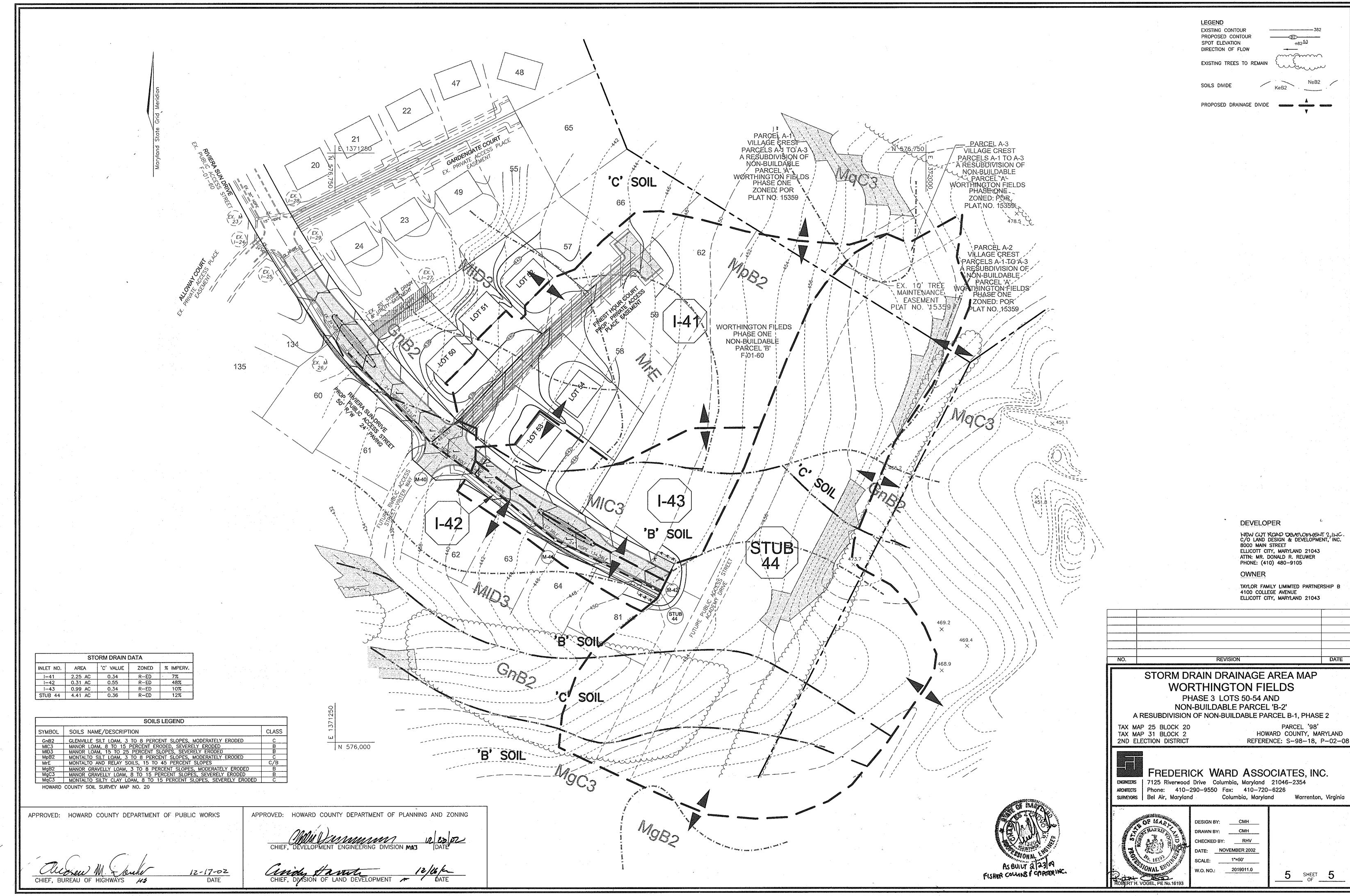
AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL,

SIGNATURE OF DEVELOPER

W.O. NO.:



AS-BUILT

F-02-170