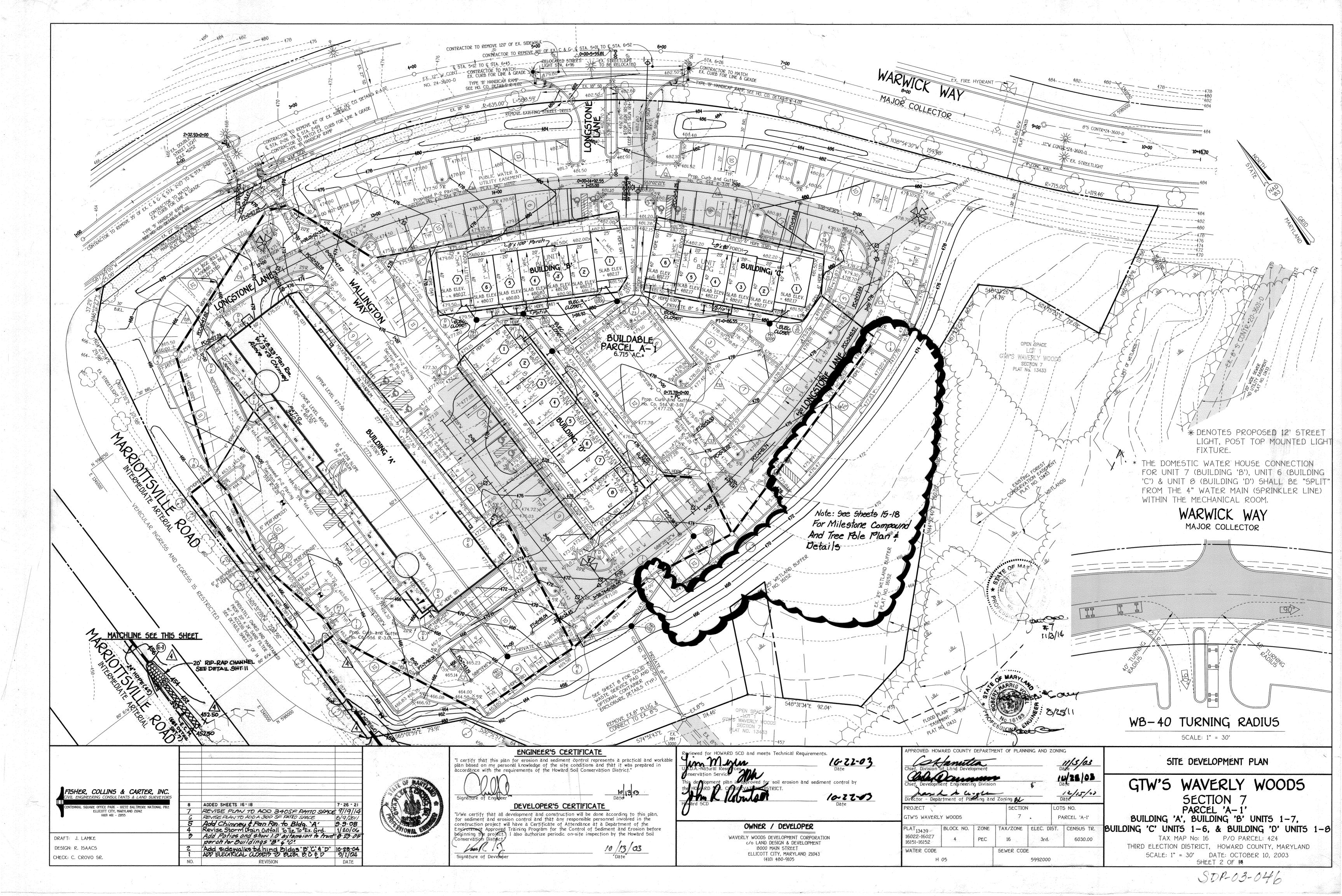
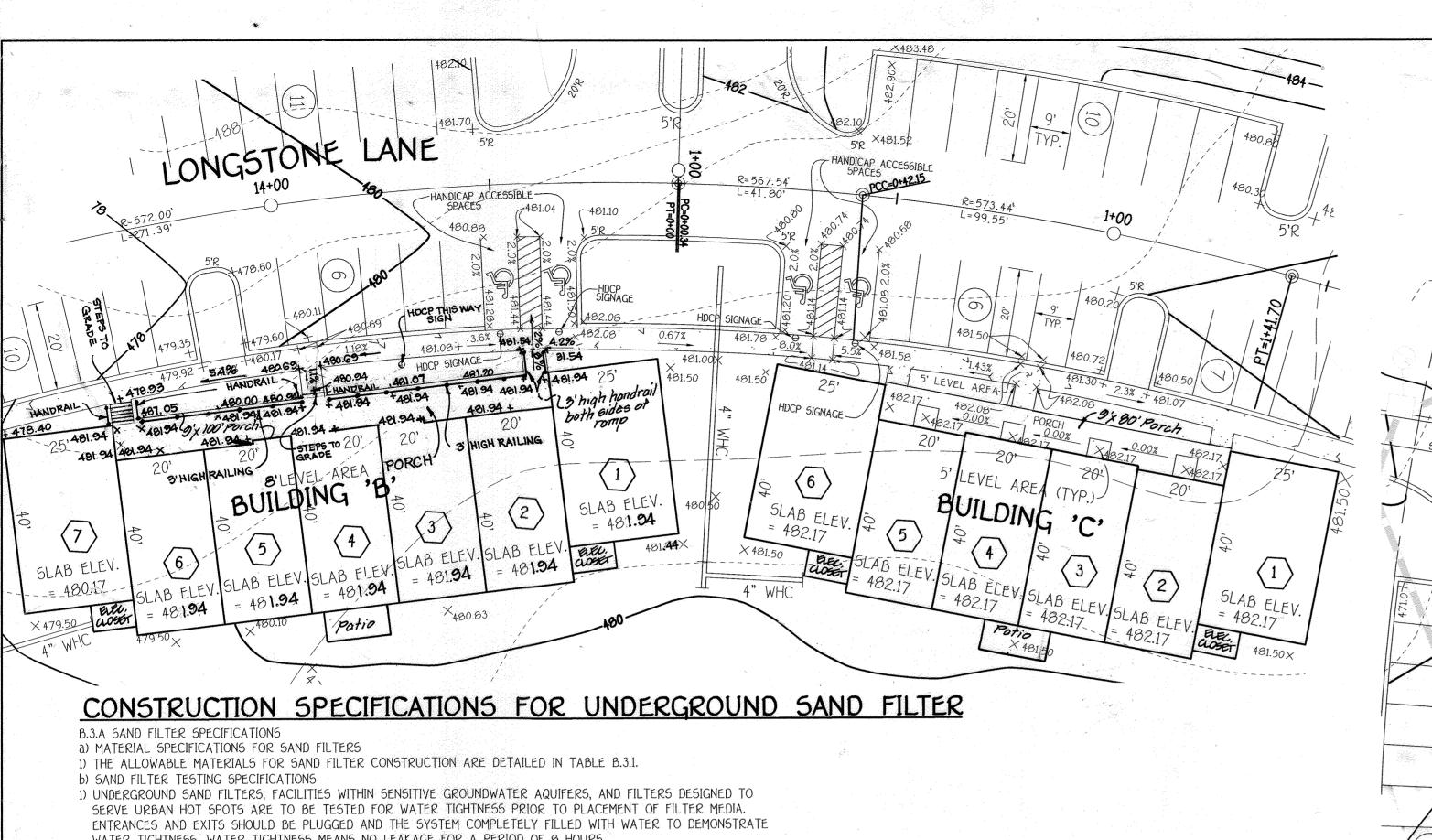
STRUCTURE SCHEDULE - PRIVATE STORM DRAIN SITE DEVELOPMENT PLAN GENERAL NOTES: **STRUCTURE** NORTH STD. DETAILS TOP ELEV. REMARKS WIDTH 1. SUBJECT PROPERTY ZONED PEC PER 10/18/93 COMPREHENSIVE ZONING PLAN. SEE DETAIL ON SHEET 13 2. THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES ZB 929-M, 5 94-07, 1341081.19 463.50 G.T.W.'5 WAVERLY WOODS 5.D. 4.02 458.35 458.35 / 458.10 4'-0" P 97-04, F 03-198, AND F 97-180. 3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK. 4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK. 597900.26 1341141.05 5.D. 4.02 460.50 2'-6" I-3 597914.97 1341315.28 5.D. 4.02 469.00/468.80 2'-6" See Chart, Sheet 16 6. BOUNDARY SURVEY PERFORMED BY: FISHER COLLINS AND CARTER INC. SECTION 7 PARCEL A-1 ON OR ABOUT AUGUST, 1990 PER SECTION 116, B. 33 OF THE ZONING REGULATIONS (EFFECTIVE G/8/90), THE RETAIL USES ENLIMERATED AS A-K MAY NOT OCCUPY MORE THAN 4% OF THE GROSS ARGA OF THE DEVELOPMENT PROJECT. WITH THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM MASS GRADING PLAN 598023.66 1341246.37 A-10 5.D. 4.02 476.03 472.25 2'-6" HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON HOWARD 475.97 597956.49 1341395.75 5.D. 4.02 2'-6" COUNTY GEODETIC CONTROL STATIONS: BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6 AND BUILDING 'D' UNITS 1-8 APPROVAL OF SIDE OF 125, THIS 4% PROVISION HAS BEEN EXHAUSTED. HOWEVER, THIS SECTION ALLOWS THAT THE RETAIL USES ENUMERATED AS A-K MAY OCCUPY UP HOWARD COUNTY MONUMENT 1012 597596.96 1341366.47 5.D. 4.14 475.40 E 1345336.7500 N 593250.9322 ELEV. = 509.924 471.95 471.70 2'-6" HOWARD COUNTY MONUMENT 16E1 F 1340192.7110 5.D. 4.02 1341076.93 463.58 459.40 / 460.40 to 20% of the floor area of any building devoted 459.15 (2) 4'-0" ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED PRIMARILY TO BUSINESS OF PROFESSIONAL OFFICES, OR FOR RESEARCH AND DEVELOPMENT LABORDES. AT THE DEVELOPER'S EXPENSE. 1341236.89 5.D. 4.02 470.31 465.95 2'-6" 598334.80 465.70 10. THIS PLAN IS FOR BUILDING SITTING AND LOT GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHTS-OF-WAY OF THIS S.D.P. ARE NOT USED FOR CONSTRUCTION. 466.65 SHARED PARKING ADJUSTMENT 598329.16 470.82 1341254.29 5.D. 4.02 2'-6" FOR CONSTRUCTION SEE APPROVED ROAD CONSTRUCTION PLANS F-95-173 & F-96-179 AND / OR APPROVED WATER AND SEWER PLANS CONTRACT NO. 24-3640-D. 598253.24 1341283.27 5.D. 4.02 475.58 472.25 Gam - 8 am Bam - 3 pm 3 pm - 5 pm 5 pm - 12 am Gam - 6 pm 6 pm - 12 am 12 am - 6 am 472.00 2'-6" CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE PRIOR TO CONSTRUCTION. 80% 96total 100% 119total 100% 119total 10% 12total 10% 12total 5% 6 total 5% 6 total G. 5.11 597970.08 1341058.15 460.30 453.14 452.89 4'-0" 20% 39total 60% 102total 60% 102total 90% 153total 100% 170 total 70% 119 total 5% 9 total 2. SITE ANALYSIS DATA: A. TOTAL PROJECT AREA: 6.715 AC.+ G. 5.11 453.96 453.46 REF: HOWARD COUNTY ZONING REGULATIONS - SECTION 133.E.I.a. 598027.27 1341057.20 464.65 4'-0" B. AREA OF PLAN SUBMISSION: 6.715 AC.4 TOTAL PARKING REQUIRED UTILIZING SHARED PARKING ADJUSTMENT: 221 C. LIMIT OF DISTURBED AREA: 6.091 AC.* G. 5.11 455.18 454.68 4'-0" 598105.93 1341055.11 468.20 D. PRESENT ZONING: PEC 1341052.94 G. 5.11 466.20 459.01 4'-0" 458.76 E. PROPOSED USE FOR SITE AND STRUCTURES: CONDOMINIUM OFFICE BUILDINGS (BLDGS, B,C &D) AND RETAIL * SEE NOTE 28. 598285.40 1341109.33 G. 5.11 466.08 461.45 4'-0" -- 10' X G' BLECTRIGAL CLOSET-F. TOTAL NUMBER OF UNITS ALLOWED: N/A G. TOTAL NUMBER OF UNITS PROPOSED:21 TOWN HOUSE OFFICE UNITS,1 (BLDG, A) (ALL BLDGS. ARE TWO STORIES) 466.03 / 465.53 1341230.48 G. 5.11 471.15 465.78 4'-0" H. NUMBER OF PARKING SPACES REQUIRED: 21 TOWNHOUSE UNITS 36,000 SQFT / 3.3 PER 1000 (15 UNITSx20'x40'x2+ SPACES REQUIRED: 119 6 UNIT5x25'x40'x2=36,0005q.Ft.) 597905.58 1341307.16 474.60 470.50 / 470.25 4'-0" 470.25 STORY OFFICE/COMME 6" PVC CLEANOUT PIPE 8 BLD A SPACES PROVIDED: 115 CO-1 CONDOMINIUMS THE CONTROL 33,240 SOFT / 5 PER 1000 + 6405F PATTO = 33,880 SF T. EACH (2-STORY 1341077.27 SAND FILTER CLEAN OUT SPACES REQUIRED: 167 140 * SEE MINIMUM PARANCI REQUIREMENTS FOR SPACES PROVIDED: 167 SPECIFIC USES BUILDING 'A'-THIS SHEET. 6" PVC 466.30 CO-2 455.00 / 454.98 454.97 CLEANOUT PIPE I. NUMBER OF PARKING SPACES PROVIDED: 286 TOTAL (FOR THIS PLAN)-272 COMMON - 14 HDCP 6" PVC CLEANOUT PIPE 20.0 20.0' 598101.22 454.93 / 454.61 J. OPEN SPACE REQUIREMENTS ARE PROVIDED PER F-97-180 SAND FILTER ACCESS PORT C. BUILDING COVERAGE OF SITE: 1.59 Ac.+/- (BUILDINGS ONLY) 457.60 455.10 4'-0" L. BUILT OF SITE (AREA OF BUILDINGS & PAVING) END SECTION BY ADS PART *3010-NP PROFILE 13. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISION OF SECTION 16.124 451.81 453.81 451.71 597,907-64 | 134(058.91 | END SECTION | 150' 7 UNIT CONDOMINIUM -15'X 7.73' Potio OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$16,410.00 FOR 41 SHADE TREES, 0 EVERGREEN TREES AND 137 SHRUBS. * - DENOTES TOP OF GRATE ELEVATION -10'XG' ELECTRICAL CLOSET-ADS (ADVANCED DRAINAGE SYSTEMS, INC.) 14. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF 470 HAWK RIDGE LANE SYKESVILLE, MD. 21784 BUILDING 'B' 15. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF CONTACT INFORMATION: MR. JAY WIEDEL STORY DEFICE/COMMERCIAL PHONE: (410) - 552-5930 CONDOMINIUM TOLL FREE PHONE: 1-800-733-9554, EXT. 337 1600 SQ.FT. EACH 2-STORY 16. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. 17. THE ON-SITE WATER MAIN IS PUBLIC, AND WILL BE CONSTRUCTED UNDER CONTRACT NO. 14-4050-D. ATET COLOCATION CERTIFICATION I hereby verify redlines shown on this plan are 18. THE SEWER MAIN THAT RUNS THROUGH PARCEL 'A' 15 PRIVATE. 40.0 19. STORMWATER MANAGEMENT QUANTITY CONTROL IS NOT REQUIRED FOR THIS SUBDIVISION in accordance with ATST Construction WATER QUALITY IS BEING PROVIDED BY AN UNDERGROUND SAND FILTER SYSTEM PROVIDED drawings by Foresite Group Dated 01/27/2022 BEHIND THE RETAIL CENTER. THIS FACILITY WILL BE PRIVATELY OWNED & MAINTAINED BY CONDOMINIUM ASSOCIATION. 9' x 100' Porch. PROFILE 170' 8 UNIT CONDOMINIUM 20. THE LOCATIONS OF EXISTING UTILITIES ARE BASED ON CONTRACT NOs. 24-3600-D. N 594,000 W N 594,000 W AND 24-3601-D, AND F 97-180. -10' × 6' ELECTRICAL CLOSET-21. THERE IS NO FLOOD PLAIN LOCATED ON THIS SITE. 22. A REVISED WETLANDS REPORT HAS BEEN APPROVED BY HOWARD SOIL CONSERVATION CURVE DATA CHART SERVICE. THE APPROVED WETLANDS REVISION PLAT HAS BEEN BUILDING 10' RECORDED AS PLAT. 16151-16152, ON SEPTEMBER 5, 2003. 23. THERE IS NO TRAFFIC STUDY REQUIRED FOR THIS PROJECT, HOWEVER A TRAFFIC STUDY DRY OFFICE COMMERCIA 2000 Sq.F# STARTING STATION ENDING STATION LENGTH WAS PREPARED BY THE TRAFFIC GROUP, INC. AND A.P.F.O. REGULATIONS RADIUS DELTA TANGENT CHORD CONDOMINIUMS WERE COMPLIED WITH AND WAS APPROVED ON OCT. 21, 1993. 2-STORY 1600 SQ.FT. EACH (TYP 24. THIS PLAN SHALL BE SUBJECT TO COMPLIANCE WITH THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION REGULATIONS AND THE AMENDED ZONING REGULATIONS. 567.54' 41.80' 0+12.46 94°00'00" 20.91' | 5 50°55'45" E 41.79' THIS PLAN HAS HAD FOREST CONSERVATION REQUIREMENTS SUBMITTED AND APPROVED 49.90' | 5 43°50'43" E 99.43' 573.44' 99.55' 09°56'50" 0+54.26 26. ALL WATER METERS TO BE LOCATED OUTSIDE THE BUILDING SEE STD DETAIL. 27. THE USES PERMITTED PER SECTION 116, B, 1-32 ARE PERMITTED AS A 2+73.69 3+40.57 179.83' 66.88' 21°18'30" 33.03' 5 60°52'06" W 66.49' 5CALE: 1"=1200" 3+40.57 60.82' 5 74°36'18" W 120.94' WARWICK PARKING SPACE TABULATION 4+61.74 5+38.51 365.29' 76.77' 38.52' 5 84°35'03" W 76.62' COMMON PARKING SPACES = 272 372.61 6+34.45 6+81.04 46.59 -DRIVE-HANDICAPPED SPACES = 14 23.32' N 87°07'28" W 46.56' THRU 1 PER 25 SPACES = 11 REQUIRED = 12 PROVIDED 7'× 8.33 CANOPY -2. VAN ACCESSIBILITY HANDICAP =2 PROVIDED 7+90.36 2-STORY 7+43.19 33.01 30.59 N 46°31'28" W 43.26' Fan Room 3'x3'Chimney BUILDING A TOTAL SPACES PROVIDED = 286 11+07.24 11+47.82 30.12' 40.59' 25.06' N 38°09'06" E 37.58' 11+47.82 572.00' 56.77' 12+04.59 63°00'00" 56.75' | 5 04°43'14" £ 56.75 TRASH PICKUP NOTES A. Howard County or its Contractors will not be liable for repairs or damage to the roadway, pavement, etc. to the private roads in this development. 12+33.28 14+92.55 572.00 271.39 29°00'00" 145.46' 5 66 30'53" E 260.05' B. Proper snow and ice removal must be maintained through the winter months to allow safe access for the collection vehicles. Improper snow or ice removal will result in missed trash or recycling collections. 0+28.97 0+51.51 24.92' 22.54 51 49'06" 12.10' 5 40 33'18" W 21.81' PARCEL PAN 0+71.78 0+86.55 86.55' 497.00' 43.39' N 76°52'10" E 86.45' MINIMUM PARKING REQUIREMENTS FOR SPECIFIC USES BUILDING 'A' 0+31.02 359.75' 22.91' 0+53.93 00°00'130" 5 01°37'13" E 22.91' PARKING DATA: Per Section 133.0: Off-Street parking and Loading Facilities USE CATEGORY ADDRESS CHART DESCRIPTION **RRIOTTS** A 2,650 6(a) Athletic Center 10 SPACES/1000 sf CHANGE OF USE STREET ADDRESS UNIT NUMBER UNIT NUMBER STREET ADDRESS PIPE SCHEDULE LEGEND SHEET INDEX B 1,560 6(1) Restaurant, carryout 10-SPACES/1000 sf 15.6 CHANGE OF USE 2470 LONGSTONE LANE D-2 2503 WALLINGTON WAY C | 1,256 |4(d) Commercial School **DESCRIPTION** 5 SPACES/1000 sf SYMBOL DESCRIPTION SIZE TYPE CLA55 LENGTH (ft.) 2498 LONGSTONE LANE D-3 2505 WALLINGTON WAY TITLE SHEET, BUILDING FOOTPRINTS 5 SPACES/1000 sf EXISTING CONTOUR 2' INTERVAL **B-2** 2496 LONGSTONE LANE D-4 2507 WALLINGTON WAY 2 PLAN VIEW; SITE IMPROVEMENT PLAN 6" PERF SCH 40 E 1,530 4(d) Commercial School 5 SPACES/1000 sf 7.65 EXISTING CONTOUR 10' INTERVAL 2494 LONGSTONE LANE D-5 2509 WALLINGTON WAY HANDICAP DETAIL PLAN F 1.220 4(i) Personal Service PROPOSED CONTOUR 2' INTERVAL 5 SPACES/1000 sf HOPE 5CH 40 1979 4 GRADING PLAN / SEDIMENT & EROSION CONTROL 2492 LONGSTONE LANE D-6 2511 WALLINGTON WAY 1,560 3(a) General Office 3.3 5PACE5/1000 sf PROPOSED CONTOUR 10' INTERVAL 5.148 D-7 5 PRIVATE STORM DRAIN PROFILES 2490 LONGSTONE LANE 2513 WALLINGTON WAY 15" HOPE 490 3.3 5PACE5/1000 sf 9.123 H 2,766 3(a) General Office + 624 SPOT ELEVATION 6 STORM DRAIN PROFILES - ROOF LEADERS B-6 2515 WALLINGTON WAY 2488 LONGSTONE LANE STORM DRAIN DRAINAGE AREA MAP 3,500 3(b) Medical Clinic 5 SPACES/1000 sf 890 18" HOPE -SF-SF-SILT FENCE **B-7** 2486 LONGSTONE LANE 1,240 3(a) General Office 0 DETAIL SHEET, LIGHTING DETAILS 3.3 SPACE5/1000 of 4.09 FIRST FLOOR ELEVATION 197 2410 LONGSTONE LANE 24" HOPE 9 PRIVATE SEWER MAIN PROFILES K 2,645 3(b) Medical Clinic 5 SPACES/1000 sf BASEMENT ELEVATION 2408 LONGSTONE LANE 10 PRIVATE WATERMAIN PROFILES PROPOSED WALKOUT C-3 2406 LONGSTONE LANE 4.416 3(a) General Office 3.3 SPACE5/1000 sf 11 SWM-SAND FILTER DETAILS OPEN SPACE LOT 1 2-STORY --- DRAINAGE AREA C-4 2404 LONGSTONE LANE 12 LANDSCAPE PLAN -X -X - TREE PROTECTION C-5 2402 LONGSTONE LANE 13 TRAFFIC CONTROL PLAN 3,176 6(a) Athletic Center 10 SPACES/1000 sf EXISTING TREE LINE C-6 2400 LONGSTONE LANE 14 SIGHT DISTANCE ANALYSIS VIEW propue LIMIT OF DISTURBANCE 5 MILESTONE COMPOUND SITE, GRADING, SEDIMENT & EROSION CONTROL PLAN 6 MILESTONE COMPOUND STORMWATER DRAINAGE AREA MAP & DETAILS 7 MILESTONE COMPOUND NOTES & DETAILS Total= 29.347 Parking Required = 166.7 (Use 161 spaces) 2501 WALLINGTON WAY D-1 BUILDING DEFAILS EXISTING STREET TREE 5CALE: 1"=100" 18 MILESTONE COMPOUND SEDIMENT & EROSION CONTROL NOTES & DETAILS Reviewed for HOWARD SCD and meets Technical Requirements. ENGINEER'S CERTIFICATI PPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING TITLE SHEET "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." M.A.-Natural Resources 10-22-03 REVISE PARKING TABULATION ATET COLOCATION 10/25/03 ADDED MILESTONE COMPOUND PLAN & DETAIL SHEETS WAVERLY WOODS ADD MINIMUM PARKING REQUIREMENTS FOR SPECIFIC USES TABLE - BUILDING 'A' 12/15/05 FISHER, COLLINS & CARTER, INC. ment de levels. REVISE PLANTO ADD 340 SF PATTO AND 9/19/ 10-22-03 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYOR Director - Department of Planning and Zoning B Signature of Engineer REVISE PARKING TABULATION DEVELOPER'S CERTIFICATE LOT/PARCEL NO. PARCEL 'A-1' REVISE PLAN TO A DO 300 SF PATIO AND "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the GTW'S WAVERLY WOODS (410) 461 - 2855 REVISE PARKING TABULATION PARCEL 'A-1' BUILDING 'A', BUILDING 'B' UNITS 1-7, 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." Add Chimney& Fan Rm. to Bldg. 'A' OWNER/DEVELOPER BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8ZONE TAX MAP NO. ELEC. DIST. CENSUS TR. PLAT 13439 REVISE INV. TO'E-I TO MATCH REVISED PROFILE 1-20-04 WAVERLY WOODS DEVELOPMENT CORPORATION 16022-16027 TAX MAP No: 16 P/O PARCEL: 424 DRAFT: J. LAMKE Add 1.0' Porch Extension and Potios to 6030.00 C/O LAND DESIGN AND DEVELOPMENT 16151-16152 Buildings "B'4"C". 8000 MAIN STREET THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND DESIGN: R. ISAACS 10/13/03 WATER CODE ELLICOTI CITY, MARYLAND 21043 SEWER CODE 9/1/Q1 DATE ADD 10'X 6' ELECTRICAL CLOSETS SCALE: 1" = 30' DATE: OCTOBER 7, 2003 Signature of Developer Mr. Donald R. Reuwer, Jr. (410) 480-9105 H05 CHECK: C. CROVO 5R. SHEET 1 OF 18





WATER TIGHTNESS. WATER TIGHTNESS MEANS NO LEAKAGE FOR A PERIOD OF 8 HOURS 1) PROVIDE SUFFICIENT MAINTENANCE ACCESS FOR UNDERGROUND FACILITY BY ACCESS MANHOLES.

d) SPECIFICATIONS PERTAINING TO UNDERGROUND SAND FILTERS (F-2) 1) PROVIDE MANHOLE AND/OR GRATES TO ALL UNDERGROUND AND BELOW GRADE STRUCTURES. MANHOLES SHALL BE

OFFICE OF SAFETY and HEALTH ADMINSTRATION CONFINED SPACE REQUIREMENTS). ALUMINUM AND STEEL LOUVERED DOORS ARE ALSO

AND MORTARED INTO THE WALL BELOW EACH MANHOLE. A 5' MINIMUM HEIGHT CLEARANCE (FROM THE TOP

OF THE SAND LAYER TO THE BOTTOM OF THE UPPER/SURFACE SLAB) IS REQUIRED FOR ALL PERMANENT UNDERGROUND

STRUCTURES. LIFT RINGS ARE TO BE SUPPLIED TO REMOVE/REPLACE TOP SLABS) ON ALL PRE-FABRICATED STRUCTURES. MANHOLE COVERS SHOULD ALLOW FOR PROPER VENTILATION.

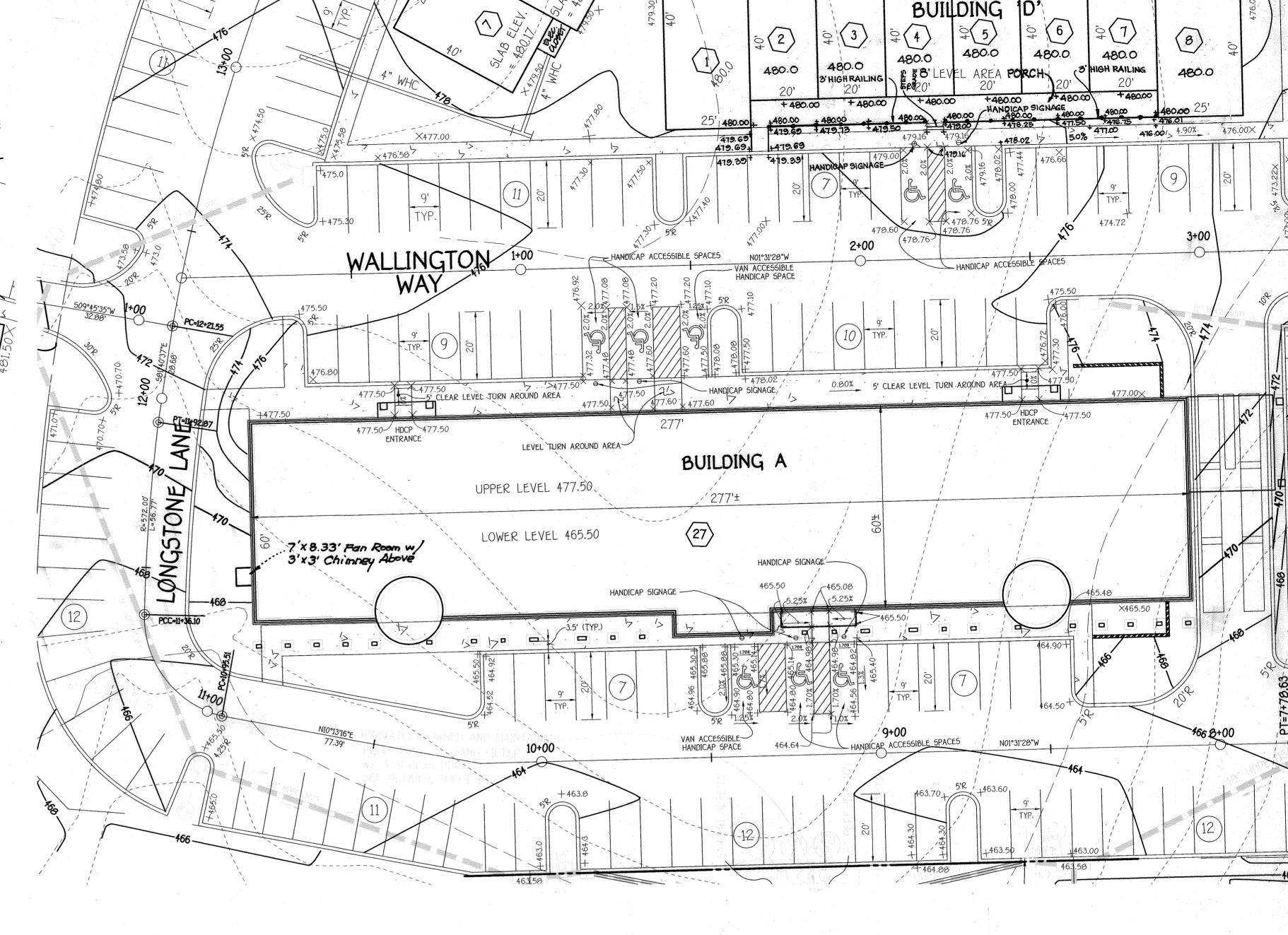
2) UNDERGROUND SAND FILTERS SHOULD BE CONSTRUCTED WITH A GATE VALVE LOCATED JUST ABOVE THE TOP OF THE FILTER BED FOR DEWATERING IN THE EVENT THAT CLOGGING OCCURS.

3) UNDERGROUND SAND BEDS SHALL BE PROTECTED FROM TRASH ACCUMULATION BY A WIDE MESH GEOTEXTILE

SCREEN TO BE PLACED ON THE SURFACE OF THE SAND BED: SCREEN IS TO ROLLED UP, REMOVED, CLEANED AND REINSTALLED DURING MAINTENANCE OPERATION.

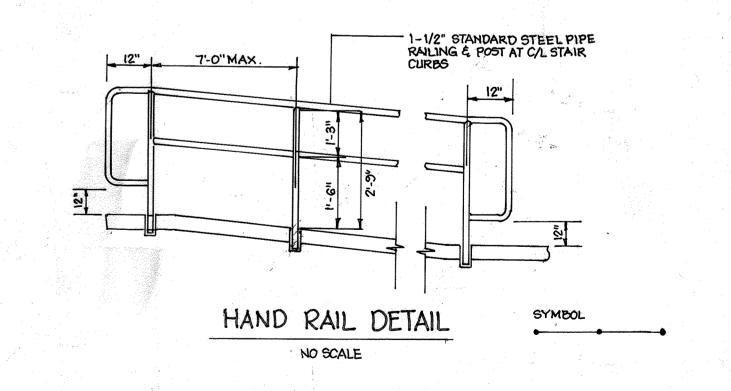
TABLE B-3.1 MATERIAL SPECIFICATION FOR SAND FILTERS

		<u> </u>	
MATERIAL	SPECIFICATION/TEST METHOD	SIZE	NOTES .
SAND	CLEAN AASHTO-M-60R ASTM-C-	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE *10 ARE NOT ACCEPTABLE. NO CALCIUM
	33 CONCRETE SAND		CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE
	48		USED FOR SAND.
PEAT	ASH CONTENT: < 15%	N/A	THE MATERIAL MUST BE REED-SEDGE HEMIC PEAT, SHREDDED, UNCOMPACTED, UNIFORM, AND
	pH RANGE: 5.2 TO 4.9		CLEAN.
	LOOSE BULK DENSITY 0.12 TO		
	0.15 g/cc		
LEAF COMPOST	0.15 9, 00	N/A	
INDER DRAIN	AASHTO-M-43	0.375" TO 0.75'	
GRAVEL	7//(0/1/0 1/ 10		
GEOTEXTILE	ASTM-D-4833 (PUNCTURE	0.08" THICK	MUST MAINTAIN 125 gpm PER SQ. FT. FLOW RATE. NOTE: A 4" PEA GRAVEL LAYER MAY BE
FABRIC (IF REQ'D)	STRENGTH-125LB.)	EQUIVALENT	SUBSTITUTED FOR GEOTEXTILES MEANT TO "SEPARATE" SAND FILTERS LAYERS.
I ADRIC (II REQUI	ASTM-D-4632 (TENSILE	OPENING SIZE	OGBOTTOTED FOR GEOTEXTIEES HEART TO SELECTE STATE OF THE PERSON EXTERNS.
<u>:</u> 2	STRENGTH-300 LB.)	OF *80 SIEVE	
IMPERMEABLE	ASTM-D-4833 (THICKNESS)	30 mil THICK-	LINER TO BE ULTRAVIOLET RESISTANT. A GEOTEXTILE FABRIC SHOULD BE USED TO PROTECT THE LIN
LINER (IF REQ'D)	ASTM-D-4033 (THICKNESS)	NESS	FROM PUNCTURE
LINER OF REQUI	STRENGTH 1,100LB. ELONGATION	INLOO	TROTT FONCTORE
epocposa e	200%)		
	ASTM-D-624 (TEAR RESISTANCE		
	150EB./IN.)		
	ASTM-D-471 (WATER		
	ABSORPTION: +8 TO -2% MASS)		
		(" (" 01010	PROPERTY OF CHANGE OF A LIGHT OF COMMENT OF CHANGE OVER DIDES NOT
UNDER DRAIN	F 758, TYPE PS 28 OR AASHTO		
PIPING	M-278	SCHEDULE 40	NECESSARY UNDERNEATH PIPES.
		OR SDR35	AND THE RESERVE OF THE PROPERTY OF THE PROPERT
CONCRETE (CAST-		N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED:
IN-PLACE)	SECTION 902, MIX NO.3, f'c=		28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING
	3500 psi, NORMAL WEIGHT,		PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND
	AIR-ENTRAINED; REINFORCING		APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND.
	TO MEET ASTM-615-60		
CONCRETE (PRE-	PER PRE-CAST MANUFACTURER	N/A	SEE ABOVE NOTE.
CAST)			
NON-REBAR STEEL	A5TM A-36	N/A	STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED ASTM-A-123
		k i i salah dan baran	銀光의 사람들은 사람들이 가득하는 사람들이 되었다. 그 사람들은 사람들이 가지 않는 것이 되었다. 그 사람들이 가지 않는 것이다.



NOTE: 4" WATER HOUSE CONNECTION WILL BE REQUIRED AT EACH BUILDING FOR THE PURPOSE OF FIRE PROTECTION

NOTE: ONE (1) WHC CONNECTION TO THE BUILDINGS MUST BE SUPPLIED BY THE 4" WHC FOR FIRE PROTECTION TO PREVENT STAGNATION.



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·-		-
5- <u></u>		-
<u> </u>		_
5	Add Sheets 15-18	7.27.21
4	Add Fan Rm. & Chimney to Bldg. 'A'	9.9.08
7	Add 1.0' Porch Estension and Potlo's to	0.23.05
	Buildings "B" + "C".	
2		9/1/04
1		7-9-04
NO	REVISION	DATE
	2	5 Add Sheets 15-18 4 Add Fan Rm. & Chimney to Bldg. 'A' 7 Add 1.0' Parch Extension and Patlo's to Buildings "B' & "C". 2 ADD ELECTRICAL CLOSET TO BLOW. B&C 1 Rev. elev. & grd. for Bldg. B&D.



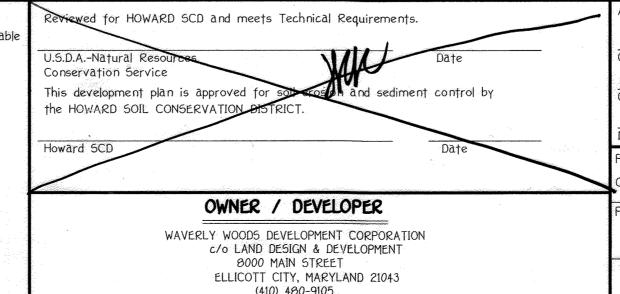
ENGINEER'S CERTIFICATE "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, for sediment and erosion control 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. Talso authorize periodic on-site inspection by the Howard Soil

10-13-03 Date

The State of the S



10/18/01 Date 12/15/13 Date LOTS NO. PARCEL 'A-1' TW'S WAVERLY WOODS BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. 16022- 16027 3rd. 6030.00 16151- 16152 WATER CODE SEWER CODE

H 05

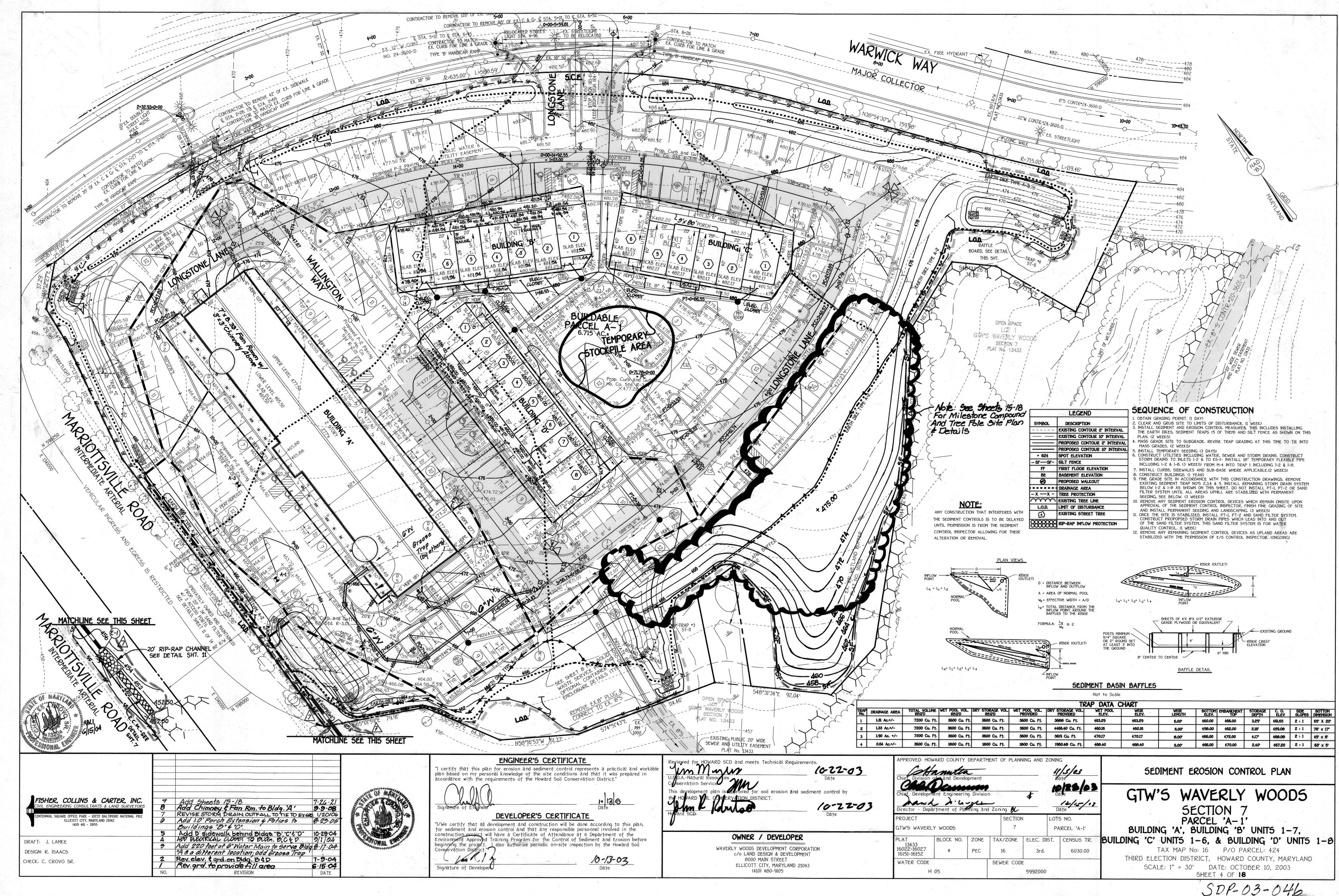
HANDICAP DETAIL PLAN

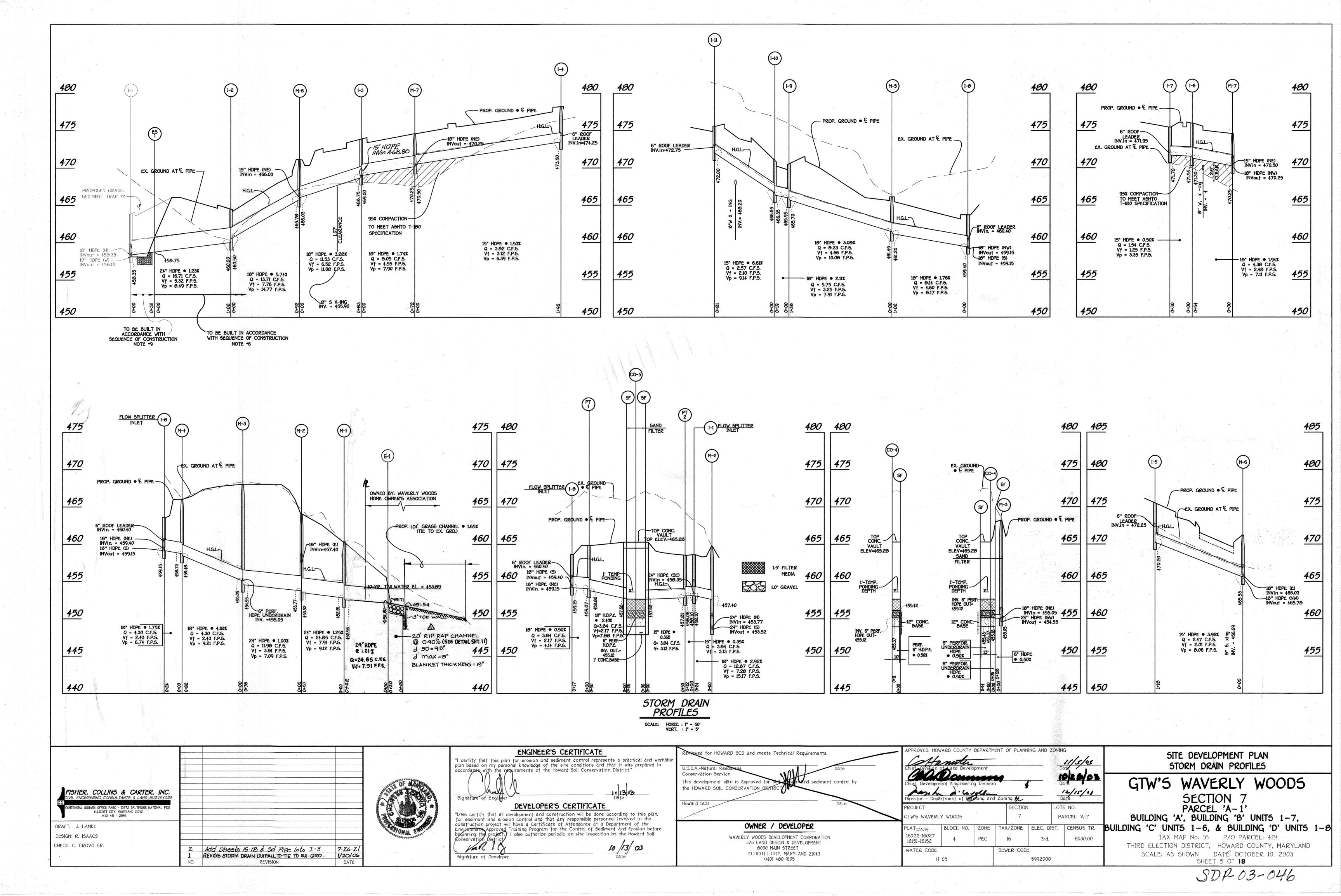
GTW'S WAVERLY WOODS

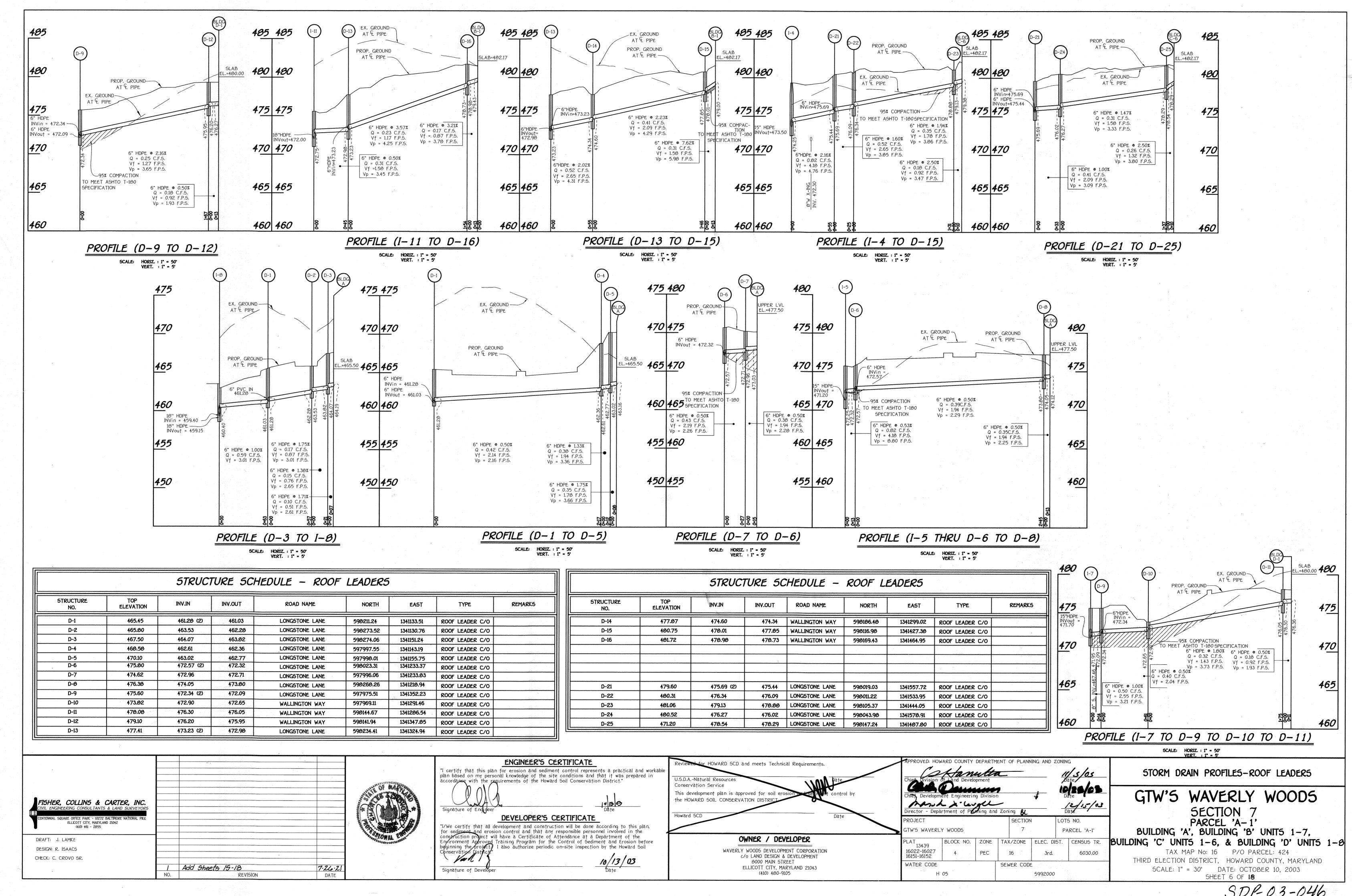
SECTION 7 PARCEL 'A-1'

BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

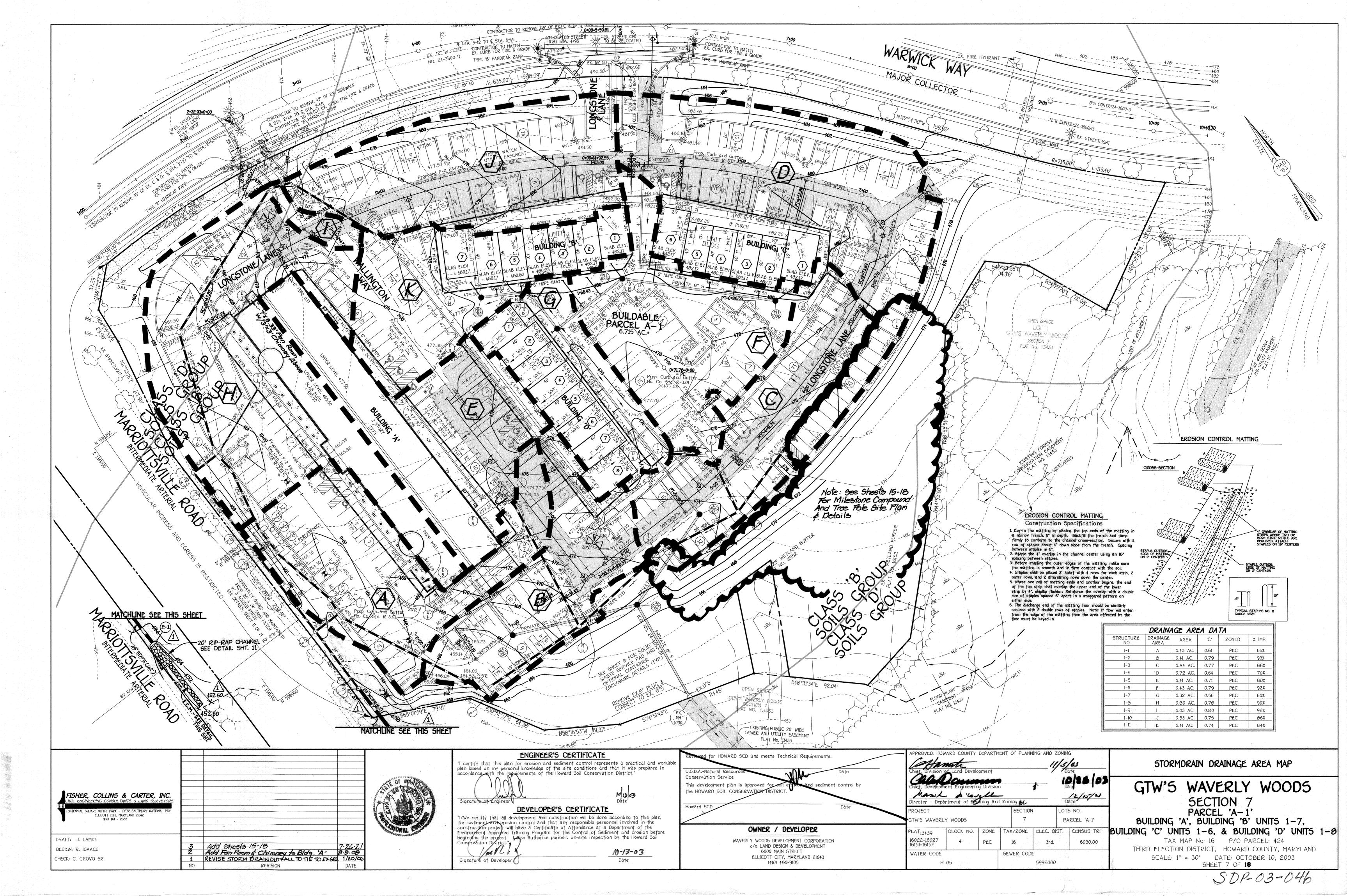
TAX MAP No: 16 P/O PARCEL: 424 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: 1" = 20' DATE: OCTOBER 10, 2003 SHEET 3 OF 18







SDR-03-046



STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION Using vegetation as cover for barren soil to protect it from forces that cause erosion. Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources. CONDITIONS WHERE PRACTICE APPLIES This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration Oup to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc. EFFECTS ON WATER QUALITY AND QUANTITY Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters. SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS i. Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins. ii. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding. iii. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres. Soil Amendments (Fertilizer and Lime Specifications) i. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses. ii. Fertilizers shall be uniform in commonition free flowing and suitable for accurate application by ii. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee iii. Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a *100 mesh sieve and 98-100% will pass through a *20 mesh sieve. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means. iv. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means. Seedbed Preparation Temporary Seeding Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope. b. Apply fertilizer and lime as prescribed on the plans. c. In corporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means. ii. Permanent Seeding a. Minimum soil conditions required for permanent vegetative establishment: 1. Soil pit shall be between 6.0 and 7.0. 2. Soluble salts shall be less than 500 parts per million (opm).

Soluble salts shall be less than 500 parts per million (ppm). The soil shall contain less than 40% clay, but enough fine grained material 030% silt plus clay) to provide the capacity to hold a

moderate amount of moisture. An exception is if lovegrass serecia lespedezas is to be planted, then a sandy soil (30% si

serecia lespedezas is to be planted, then a sandy soil (30% silt plus clay) would be acceptable.

4. Soil shall contain 1.5% minimum organic matter by weight.

5. Soil must contain sufficient pore space to permit adequate root penetration.

6. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.

Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise lossened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots for prevent topsoil sliding down a slope.

to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.

Apply soil amendments as per soil test or as included on the plans.

Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas.

i. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.

Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.

ii. Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75°-80° f. can weaken bacteria and make the inoculant less effective.

Methods of Seeding
i. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder.

a. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen; maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous): 200 bs/ac; K20 (potassium): 200 lbs/ac.

b. Lime - use only ground agricultural limestone, (Up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

c. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.

without interruption.

Seeding: This includes use of conventional drop or broadcast spreaders.

Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

Or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.

Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

Apply half the seeding rate in each direction.

F. Mulch Specifications (In order of preference)

i. Straw shall consist of thoroughly threshed wheat, rive or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.

ii. Wood Cellulose Fiber Mulch (WCFM)

a. WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.

b. WCFM shall be dived orsept or contain a green due in the nackage that will provide

wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with, the soil without inhibiting the growth of the grass seedlings. WCFM material shall contain no elements or compounds at concentration levels that will be phytol-toxic.

e. WCFM magerial shall confain no elements or compounds at concentration levels that will be phytol-toxic.

f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.

Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.

If grading is completed outside of the seeding season, mulch along shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.

When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1° and 2°. Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.

Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall comfain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:

A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface. This may be the soil surface is most effective on large.

A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.

Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

or water.

iii. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be appear uniform after binder application. Synthetic binders - such as Acrylic DLR (Agro-Tack), DCA-70 Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.

Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long

7.26.21 Add Sheets 15-18

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYOR

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SEDIMENT CONTROL NOTES 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSEES 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 MOST CURRENT 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 THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE. Incremental Stabilization - Cut Slopes i. All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'. ii. Construction sequence (Refer to Figure 3 below): a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation. b. Perform Phase 1 excavation, dress, and stabilize. c. Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary. Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions int he operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization. J. Incremental Stabilization of Embankments - Fill Slopes i. Embankments shall be constructed in lifts as prescribed on the plans. ii. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15°, or when the grading operation ceases as prescribed in the plans. iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-crosive manner to a sediment trapping device. iv. Construction sequence: Refer to Figure 4 (below). a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area. b. Place Phase 1 embankment, dress and stabilize. c. Place Phase 2 embankment, dress and stabilize. d. Place final phase embankment, dress and stabilize. Once the placement of fill has begun the operation should be continuous from grubbing through the completion of and placement of topsoil (if required) grading and permanent seed and mulch. any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization. Incremental Stabilization of Embankments - Fill Slopes SECTION 2 - TEMPORARY SEEDING Vegetation - annual grass or grain used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetative cover, Permanent Seeding is required. A. Seed mixtures - Temporary Seeding

Lime Rate

2 tons/ac

000 b/1000sf)

Rate

Fertilizer

(10-10-10)

Fertilizer Rate

90 lb/ac 175 lb/ac 175 lb/ac |2 tons/ac

(10-20-20)

P205

i. Select one or more of the species or mixtures listed in Table 26 for the appropriate Plant Hardiness Zone (from Figure 5) and enter them in the Temporary seeding summary below, along with application rates, seeding dates and seeding depths. If this summary is not put on the plans

Seed Mixture (Hardiness Zone 6a From Table 26

BARLEY OR RYE PLUS

FOXTAIL MILLE

A. Seed mixtures - Permanent Seeding

Seed Mixture (Hardiness Zone 6a From Table 25

LEVEL OF TREE LIMBS, OVERHEAD WIRES, ETC. —

Species

TALL FESCUE (80%) HARD FESCUE (20%)

TALL FESCUE (85%)
PERENNIAL RYE GRASS (10%)
KENTUCKY BLUEGRASS (5%)

ii. For sites having soil tests performed, the rates shown on this table shall be deleted and the rates recommended by the testing agency shall be written in. Soil tests are not required for Temporary Seeding

beeding Dates

3/15 - 10/31

i. Select one or more of the species or mixtures listed in Table 25 for the appropriate Plant Hardiness Zone (from Figure 5) and enter them in the Permanent Seeding Summary below, along with application rates and seeding dates. Seeding depths can be estimated using Table 26. If this summary is not put on the construction plans and completed, then Table 25 must be put on the plans. Additional planting specifications for exceptional sites such as shorelines, streambanks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-5C5 Technical Field Office Guide, Section 342 - Critical Area Planting. For special lawn maintenance areas, see Sections IV Sod and V Turfgrass.

ii. For sites having disturbed area over 5 areas, the rates shown on this table shall be deleted and the rates recommended by the soil testing agency shall be written in.

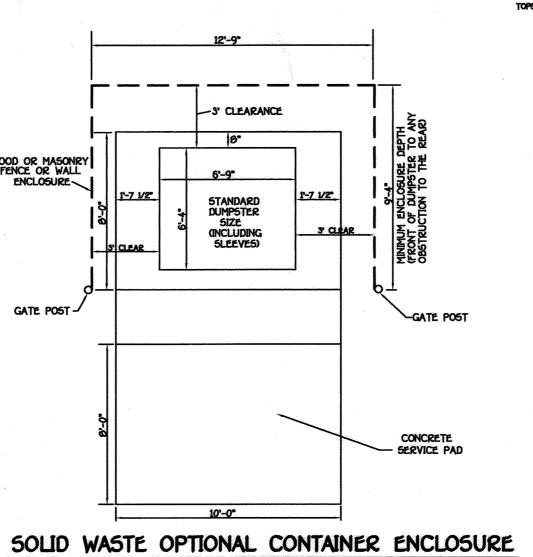
Seeding Dates

3/15 - 6/1,

iii. For areas receiving low maintenance, apply ureaform fertilizer (46-0-0) at 3 1/2 lbs/1000 sq. ft. (150 lbs/ac), in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

Seeding grass and legumes to establish ground cover for a minimum of one year on disturbed areas generally receiving low maintenance.

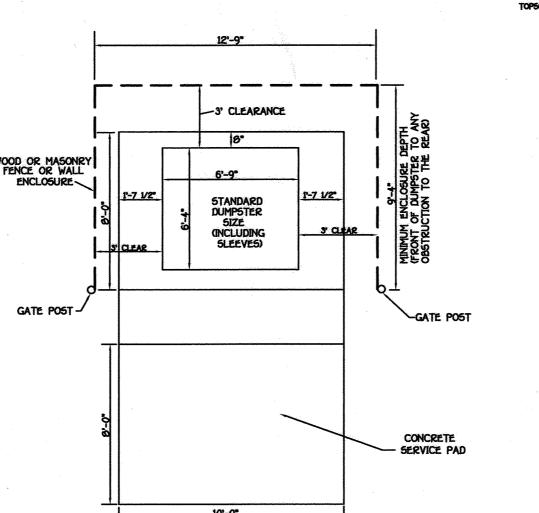
_		CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
n	5)	ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD
		SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS
		AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR
		PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50),
		AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN
		ONLY 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.
	7)	SITE ANALYSIS:
	• •	TOTAL AREA OF SITE 6.715 ACRES
		AREA DISTURBED 6.105 ACRES
		AREA TO BE ROOFED OR PAVED 4.825 ACRES
		AREA TO BE VEGETATIVELY STABILIZED 0.610 ACRES
	. ,	TOTAL CUT 15,769 CU.YD6.
		TOTAL FILL 10,267 CU.YDS.
		OFFSITE WASTE/BORROW AREA LOCATION 5,501 CU.YDS. GTW- PARCEL 'B'
	8)	ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING DOUB
		ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE WIRE
		SAME DAY OF DISTURBANCE.
	9)	ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED 2-2"X
		NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. NOTC
	10)	ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, HOLD
		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 FROM
	11)	TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE
		LENGHTS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN
		one working day, whichever is shorter.
		TOPS
		12*_0*



NOT TO SCALE

GEOTEXTILE CLASS 'C'

OR BETTER



SHRUB PLANTING DETAIL

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

APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./ 1,000 SQ.FT.)

MULCHING:

APPLY 1 TO 2 TONS PER ACRE (70 TO 90 L85./1,000 SQ.FT.)

OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING.
ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALL,000 SQ.FT.)

OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES & FEET OR
HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR

EVERGREEN PLANTING DETAIL

DING:
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST
15 THROUGH NOVEMBER 15, SEED WITH 1 BUSHEL PER ACRE OF
ANNUAL RYE (3.2 LBS./ACRE OF WEEPING LOVEGRASS (.07 LBS./
1,000 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.

REFER TO THE 1986 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

2 PIECES OF REINFORCED RUBBIER HOSE

TREE PLANTING DETAIL PLANTING SPECIFICATIONS

All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and shape shown on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, tree from defects, decay, disfiguring roots, sun scald injuries, abbasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be freshly dug: no healed-in plants from cold storage will be accepted.

Unless otherwise specified, all general conditions, planting operations, details and planting specification shall conform to "Landscape Specification Guidelines" approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architect, latest edition, including all agenda

Contractor shall be responsible for notifying utility companies, utility contractors and "Miss Utility" a minimum of 40 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence

Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen (acidic) fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

Contractor id responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within the growing season of completion of site construction.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence or blaze orange safety fence at the drip lim

All strubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded

HORIZONTAL FOOTCANDLES SCALE 1 INCH = 30 FT. LIGHT LOSS FACTOR = .05 TOTAL LUMENS = 16000 MOUNTING HEIGHT = 14 FT. ARM LENGTH = 0 FT. AXMUN CALCULATED VALUE = 16 HOUSE SIDE INTERNAL SHIELD

TOP MOUNTED CIRCULAR CUTOFF LIGHTING (1000 WATT)

This plan is intended for landscape use only. see other plan sheets for more information on grading, sediment control, layout, etc.

FILTER CLOTH -

1. Attach a continuous piece of wire mesh (30° minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire

mesh over the wire mesh and securely attach it to the 2" x 4" weir. 3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between

4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2° x 4° to the top of the weir at spacer locations). These 2° x 4° anchors shall extend across the inlet top and be held in place by sandbags or alternate weight-

5. The assembly shall be placed so that the end spacers are a minimum I beyond both ends of the throat opening.

6. Form the 1/2 " x 1/2 " wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the injet. Place clean 3/4 " x 1 1/2 " stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile

7. This type of protection must be inspected frequently and the filter cloth

and stone replaced when clogged with sediment.

8. Assure that storm flow does not bypass the inlet by installing a temporary

earth or asphalt dike to direct the flow to the inlet

CURB INLET PROTECTION (COG OR COS INLETS)

--- EXISTING TREES TO REMAIN -2'± TRANGE STREAMERS -FENCE WIRE AT ROOT ZONE OF TREES DRIVEN INTO GROUND OF SILT FENCE (SEE NOTES) EXISTING GRADE 1. Slit Fence to be heeled into the soil.

2. Wire, snow fence, etc. for tree protection only . Boundaries of Retention Area will be established as part of the forest conservation plan review process. 4. Boundaries of Retention Area should be staked and flagged prior to installing device. 5. Avoid root damage when placing anchor posts.

6. Device should be properly maintained throughout construction. 7. Protection signs are also required, see Figure C-4. 8. Locate fence outside the Critical Root Zone

SILT FENCE AND TREE PROTECTION

2" X 4" FRAMING 1. Excavate completely around the inlet to a depth of 18" below the 2. Drive the 2" x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where 3. Stretch the $1/2^{\circ}$ x $1/2^{\circ}$ wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a the geotistile extending from the top of the frame to 10° below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and

STANDARD SYMBO

layer of earth is level with the notch elevation on the ends and

6. If the injet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.

The structure must be inspected periodically and after each rain and the geotectile replaced when it becomes clogged. STANDARD INLET PROTECTION PERMANENT SEEDING NOTES ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:
APPLY TWO TONS PER ACRÉ DOLOMITIC LIMESTONE (92 LB5/1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LB5./1,000 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 LB5./1,000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LB5./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.

1,000 5Q.FT.) OF 10-20-20 FERTILIZER.

SEEDING:

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST
1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3
LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE
PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS/ACRE
(1.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND
2 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING
LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH
FEBRUARY 20. PROJECT SITE BY: OPTION (1) - TWO TONS PER
ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS
POSSIBLE IN THE SPRING: OPTION (2) - USE SOO; OPTION (3) SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH
WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD
BE HYDROSEEDED.

CHING:

MULCHING:
APPLY 1 TO 2 TONS PER ACRE (10 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES. ON SLOPES & FEET OR HIGHER US 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING

1AINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS. * FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVETCH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS/ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

SOLID WASTE SERVICE PAD ENGINEER'S CERTIFICATE "I certify that this plan for erosion and sediment control represents a practical and workab 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." Signature of Engineer DEVELOPER'S CERTIFICATE

ble	U.S.D.A. Natural Resources Conservation Service This development plan is approved for the erosion and sediment control by the HOWARD SOL CONSERVATION DESIGN.
	Howard SCD Date
	OWNER/DEVELOPER
	WAVERLY WOODS DEVELOPMENT CORPORATION C/O LAND DESIGN AND DEVELOPMENT

(410) 480-9105

EARTH FILL

MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF

PROFILE - * 50' MINIMUM

Construction Specification

Width - 10' minimum, should be flared at the existing road to provide a turning

to placing stone. **The plan approval authority may not require single family

5. 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

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

where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance

STABILIZED CONSTRUCTION ENTRANCE

5. Location - A stabilized construction entrance shall be located at every point

Geotextile fabric (filter cloth) shall be placed over the existing ground prior

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

Length - minimum of 50° (*30° for single residence lot).

residences to use geotextile.

APPROVED: HO Chief, Division	Janus	lia	MENT	OF PLANN	ING AND	ZONINO	1/5/03	
Chief, Developm Director - Dep SUBDIVISION N	artment of A	ye		ning BC	1	Di	26/03	
	'S WAVERLY W	00D5		7	ARLA	EOIA	PARCEL 'A-1'	
PLAT 13439 16022-16027 16151-16152	GRID NO.	ZONE	TAX	MAP NO. 16		DIST. IRD	CENSUS TR. 6030.00	BUIL
WATER CODE	H05		5E	WER CODE 5992			Spiritgi e en anaman a anoman anticipi de s	

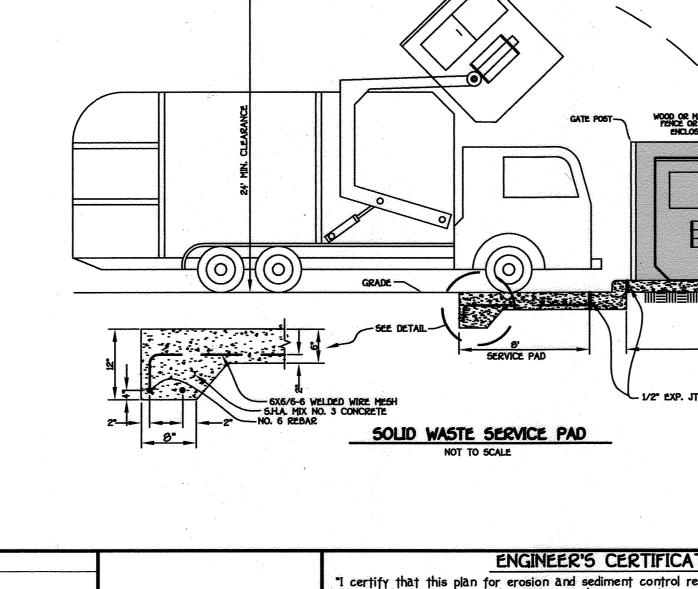
STANDARD DETAILS AND NOTES

GTW'S WAVERLY WOODS

SECTION PARCEL 'A-1'

LDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8 TAX MAP No: 16 P/O PARCEL: 424 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

> SHEET 8 OF 18 SDP-03-046



器 5CE器 WOOD OR MASONE FENCE OR WALL ENCLOSURE-CLEARANCE

10-13-03

ELLICOTT CITY, MARYLAND 21043

I/We certify that all development and construction will be done according to this plan

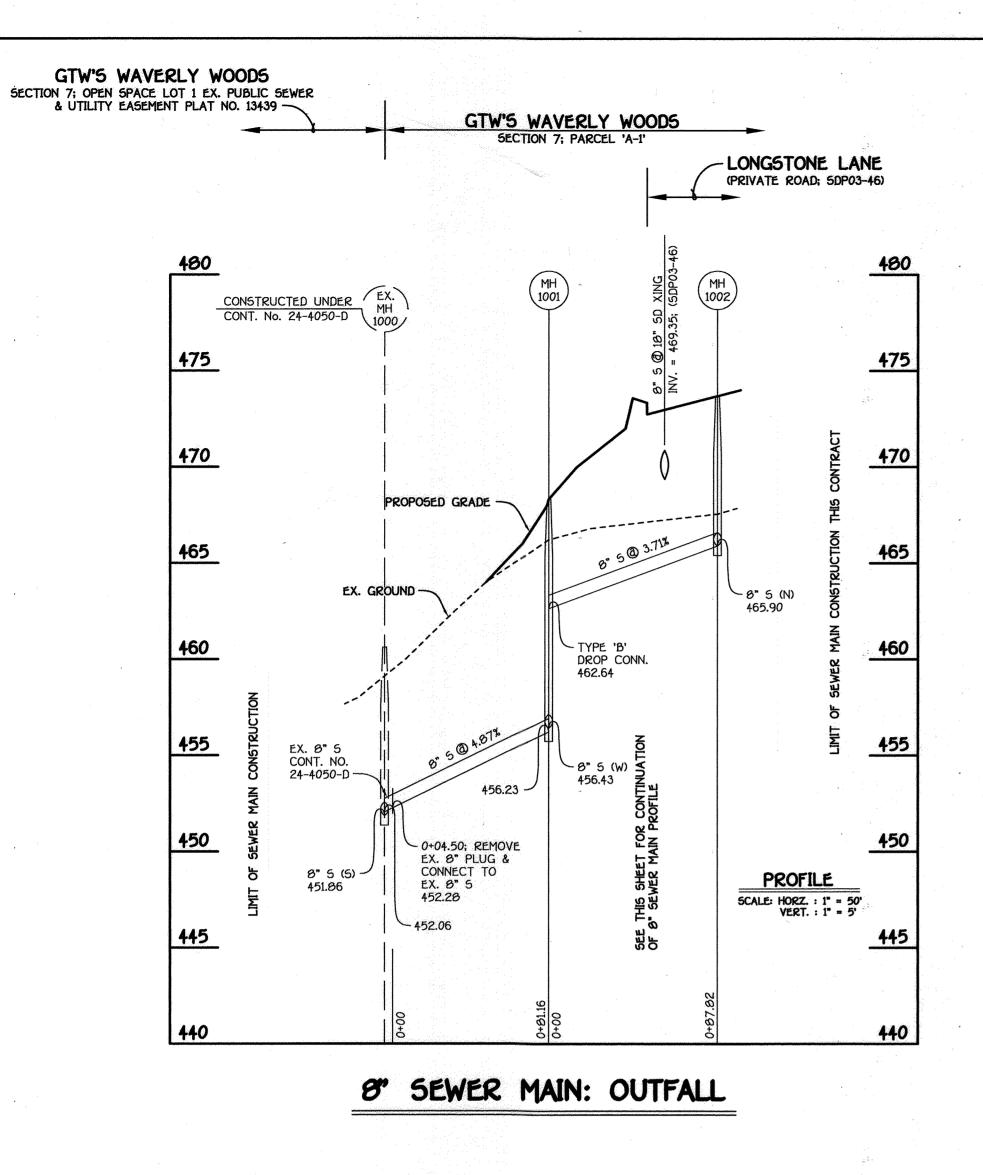
Signature of Developer Mr. Donald R. Reuwer, Jr.

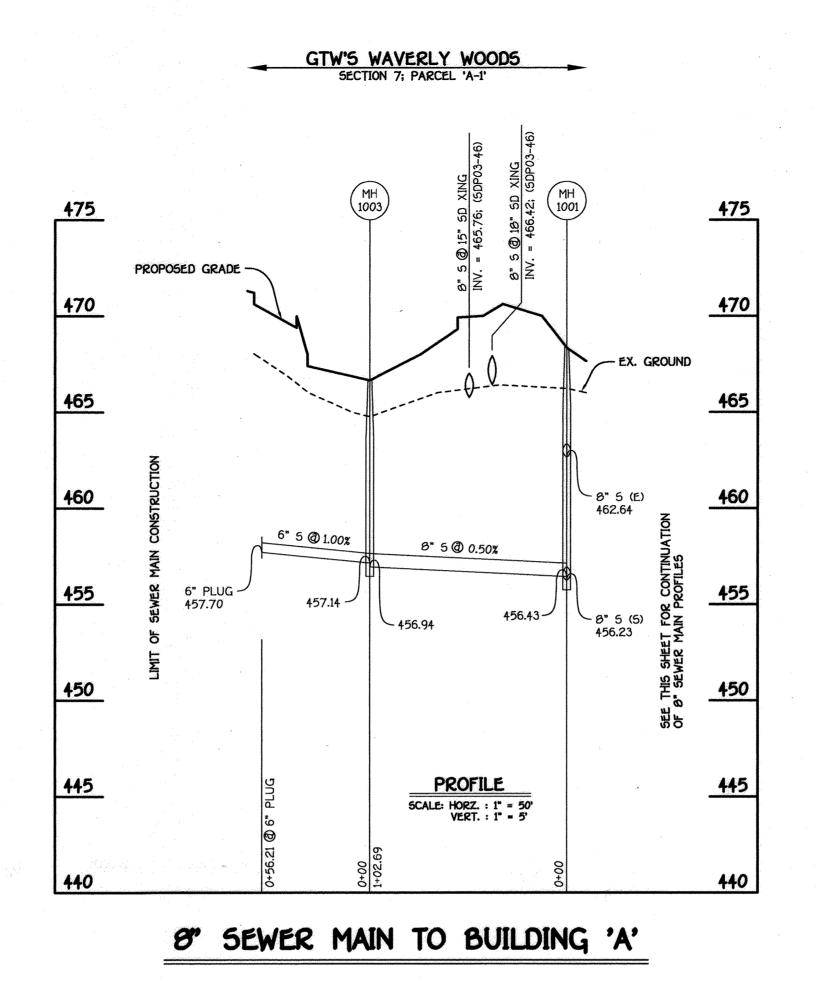
for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

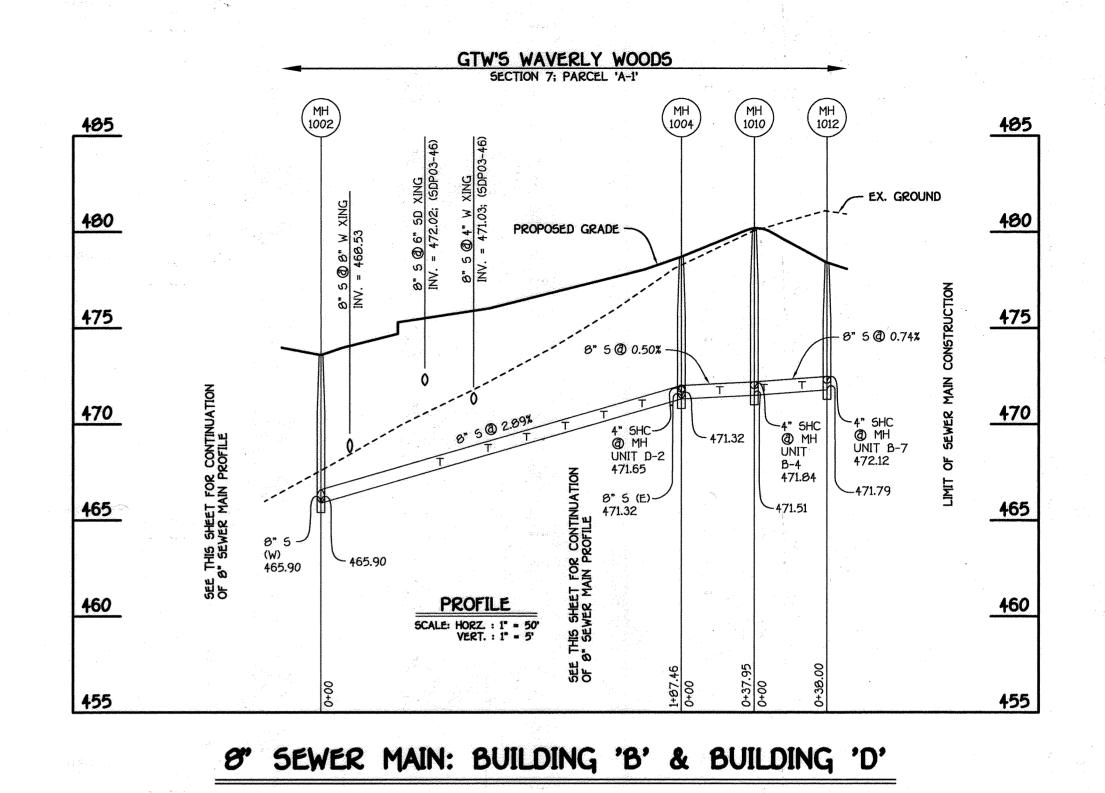
8000 MAIN STREET

BUILDING 'A', BUILDING 'B' UNITS 1-7,

SCALE: 1" = 30' DATE: OCTOBER 10, 2003





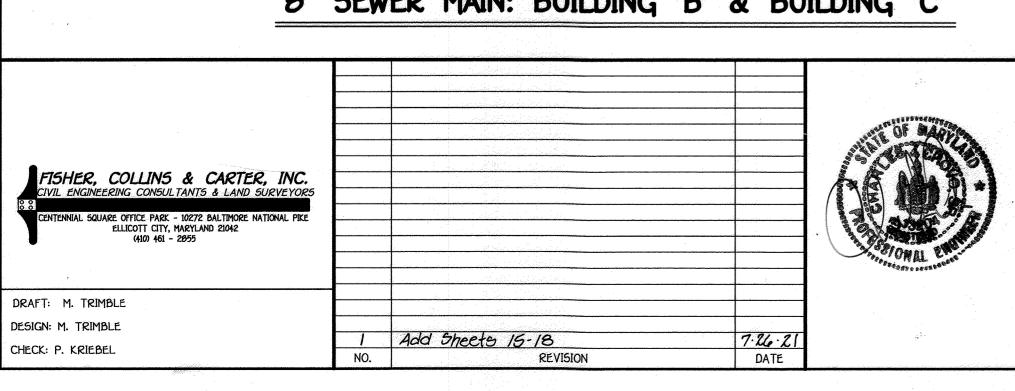


GTW'S WAVERLY WOODS
SECTION 7; PARCEL 'A1' PROPOSED GRADE -480 - EX. GROUND 475 475 8" 5@ 1.00% 8" 5@ 1.00% 4" 5HC ② MH UNIT C-1 473.55 470 470 473.22 8" 5 / (N & 5) 471.32 - 4" 5HC ② MH UNIT B-1 472.31 4" 5HC @ MH UNIT D-2 471.65 465 PROFILE ~ 471.32 6CALE: HORZ. : 1" = 50' VERT. : 1" = 5' 460

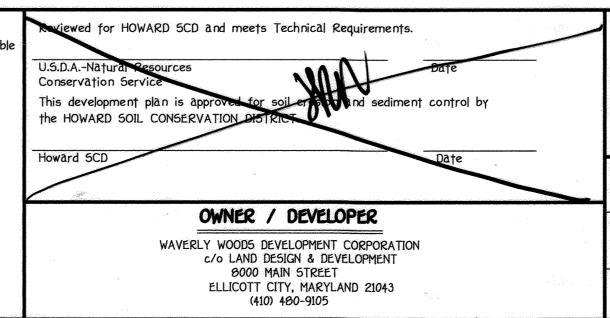
M.C.E. C	JAK I
UNIT	M.C.E.
GTW'S SECTION 7;	PARCEL 'A'
BUILDING 'A'	465.30
BUILDING 'B'	
245 4 5455	476.51
2	476.09
3	476.12
4	475.76
5	475.62
6	475.77
7	476.32
BUILDING 'C'	
1	477.81
2	477.17
3	476.97
4	476.79
5	476.61
6	476.64
BUILDING 'D'	
1	475.75
2	475.55
3	474.80
4	474.22
5	473.64
6	472.96
7	472.48
8	472.02

MAN	HOLE TABU	LATION CHA	ART
NO.	NORTHING	EASTING	RIM ELEVATION*
1001	597092.96	1341276.29	460.34
1002	597922.19	1341361.11	473.90
1003	597931.93	1341103.20	466.50
1004	596109.59	1341356.12	478.60
1006	598111.34	1341421.92	480.00
1008	598024.78	1341510.71	480.00
1010	590147.53	1341355.11	480.00
1012	598165.62	1341321.70	478.40

8"	SEWER	MAIN:	BUII	DING	'B'	&	BUILDING	.C.



ENGINEER'S CE	RTIFICATE_
"I certify that this plan for erosion and sediment plan based on my personal knowledge of the site accordance with the requirements of the Howard	conditions and that it was prepared in
	10 B Dafe
Signature of Engineer	Dafe
DEVELOPER'S CE	ERTIFICATE_
"I/We certify that all development and constructifor sediment and erosion control and that any reconstruction project will have a Certificate of At Environment Approved Training Program for the beginning the project. I also authorize periodic of Conservation District."	esponsible personnel involved in the tendance at a Department of the Control of Sediment and Erosion before
VasVez	/d-/3-03 Date
Signature of Developer	Date



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Chief, Division of Chief, Development	Land Development Engineering	ppment ng Division	9	ING AND Z	1/2 Ba	(5/05 18/03 18/03 19/05/03	-
PROJECT GTW'S WAVERLY			SECTION 7		LOTS	NO. RCEL 'A-1'	
PLAT ₁₃₄₃₉ 16022-16027 16151-16152	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIS	5T.	CENSUS TR. 6030.00	BUI
WATER CODE	kita sa manana matana katika katika katika katika matana katika matana katika matana katika matana katika mata		SEWER CODE	<u> </u>			

H 05

5992000

PRIVATE SEWER MAIN PROFILES

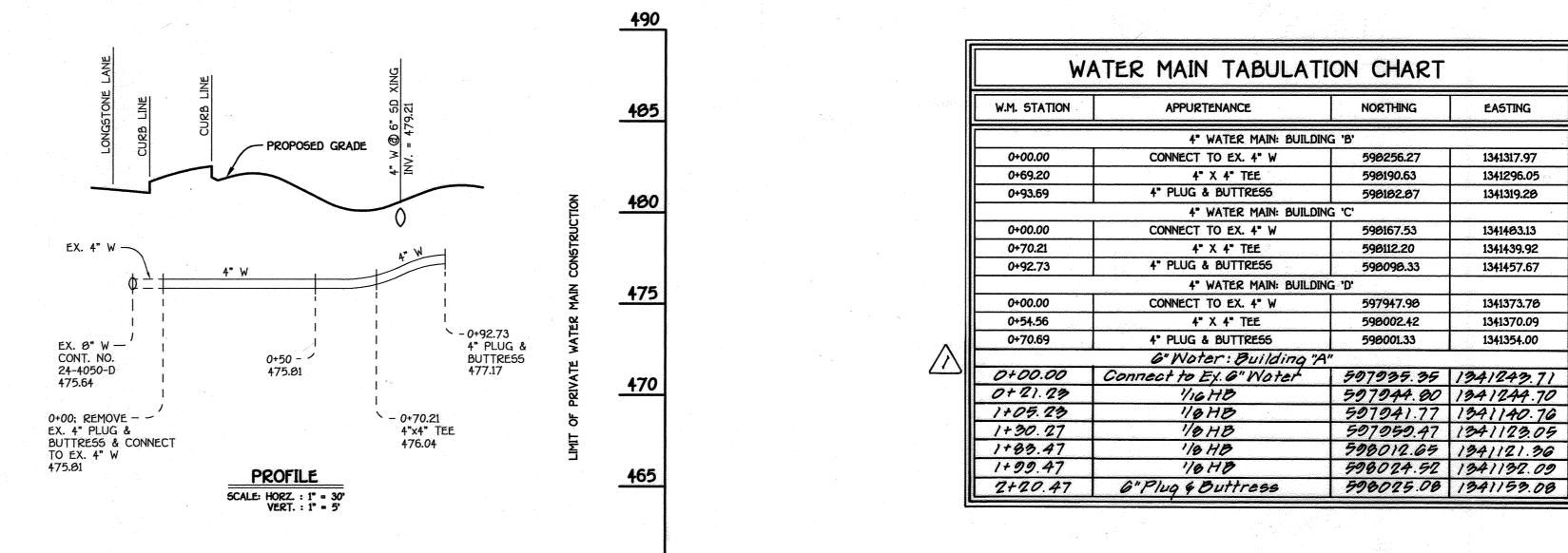
GTW'S WAVERLY WOODS

SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,

ILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8 TAX MAP No: 16 P/O PARCEL: 424 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

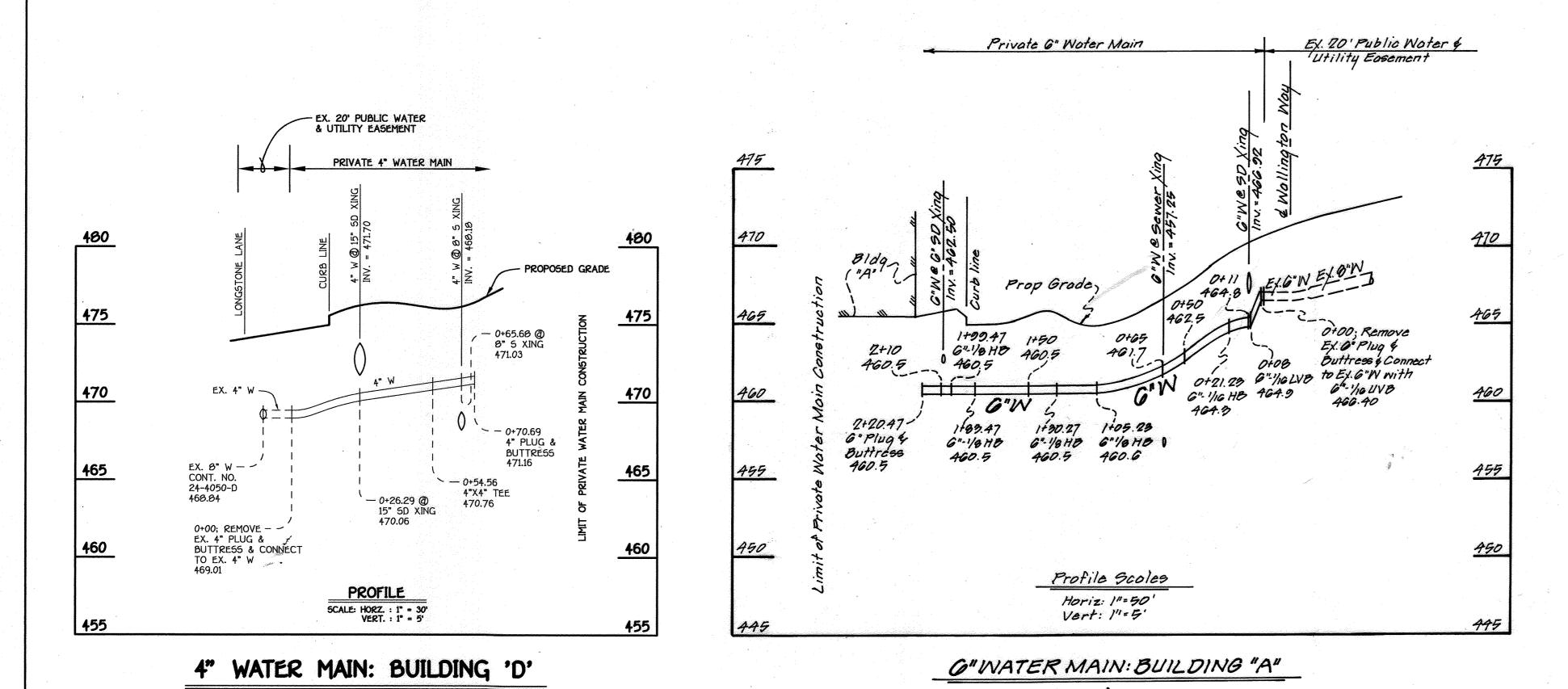
SCALE: AS SHOWN DATE: OCTOBER 10, 2003 SHEET 9 OF 18





- 0+73.79 **(1)** 6" 5D XING 472.41 475 4" PLUG & BUTTRESS 465 460

4" WATER MAIN: BUILDING 'B' 4" WATER MAIN: BUILDING 'C'



PRIVATE WATER MAIN PROFILES Director - Department of Planning and Zoning M PROJECT LOTS NO. PARCEL 'A-1' TW'5 WAVERLY WOODS BLOCK NO. | ZONE | TAX/ZONE | ELEC. DIST. | CENSUS TR. LAT 13439 16022-16027 3rd. 6030.00 16151-16152

SEWER CODE

5992000

EASTING

1341317.97

1341296.05

1341319.28

1341483.13

1341439.92

1341457.67

1341373.78

1341370.09

1341354.00

4" WATER MAIN: BUILDING 'B'

4" WATER MAIN: BUILDING 'C'

4" WATER MAIN: BUILDING 'D'

598190.63

598182.87

598167.53

597947.98

598001.33

597944.80 1341244.70

597941.77 1341140.76

507050.47 1341123.05

598012.65 1341121.36

598024.52 1341132.09

598025.08 1341153.08

4" X 4" TEE

4" X 4" TEE

4" X 4" TEE

110HB

110 HB

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS AL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 DRAFT: M. TRIMBLE DESIGN: M. TRIMBLE Add Sheets 15-18 Add G"Woter Moin to serve Building "A" CHECK: P. KRIEBEL

- EX. 20' PUBLIC WATER & UTILITY EASEMENT

- 0+16.29 @ 6" 5D XING 470.28

SCALE: HORZ. : 1" = 30" VERT. : 1" = 5"

480

475

470

465

455

PROPOSED GRADE

EX. 8" W - -CONT. NO. 24-4050-D

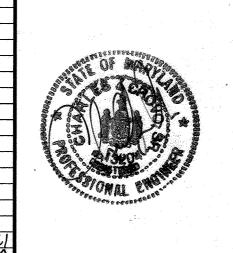
0+00; REMOVE - -EX. 4" PLUG &

BUTTRESS & CONNECT TO EX. 4" W

470.00

PRIVATE 4" WATER MAIN

4"X4" TEE



ENGINEER'S CERTIFICATE "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." Signature of Engineer

DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control 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 inspection by the Howard Soil Conservation District." 10-13-03

Date

wed for HOWARD SCD and meets Technical Requirements. U.S.D.A.-Natural Res Conservation Service This development plan is approved for the HOWARD SOIL CONSERVATION Howard SCD OWNER / DEVELOPER WAVERLY WOODS DEVELOPMENT CORPORATION c/o LAND DESIGN & DEVELOPMENT 8000 MAIN STREET ELLICOTT CITY, MARYLAND 21043 (410) 480-9105

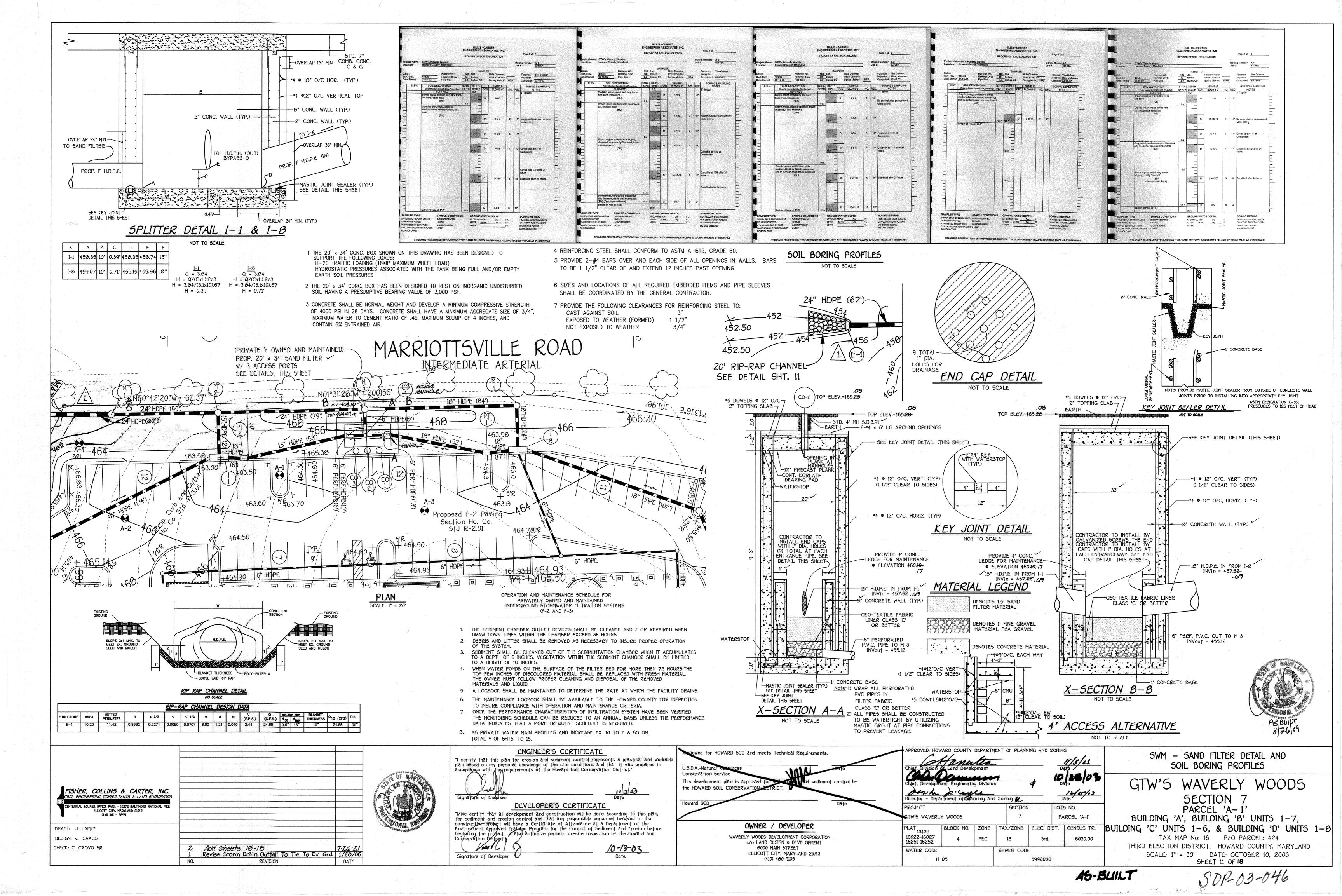
WATER CODE

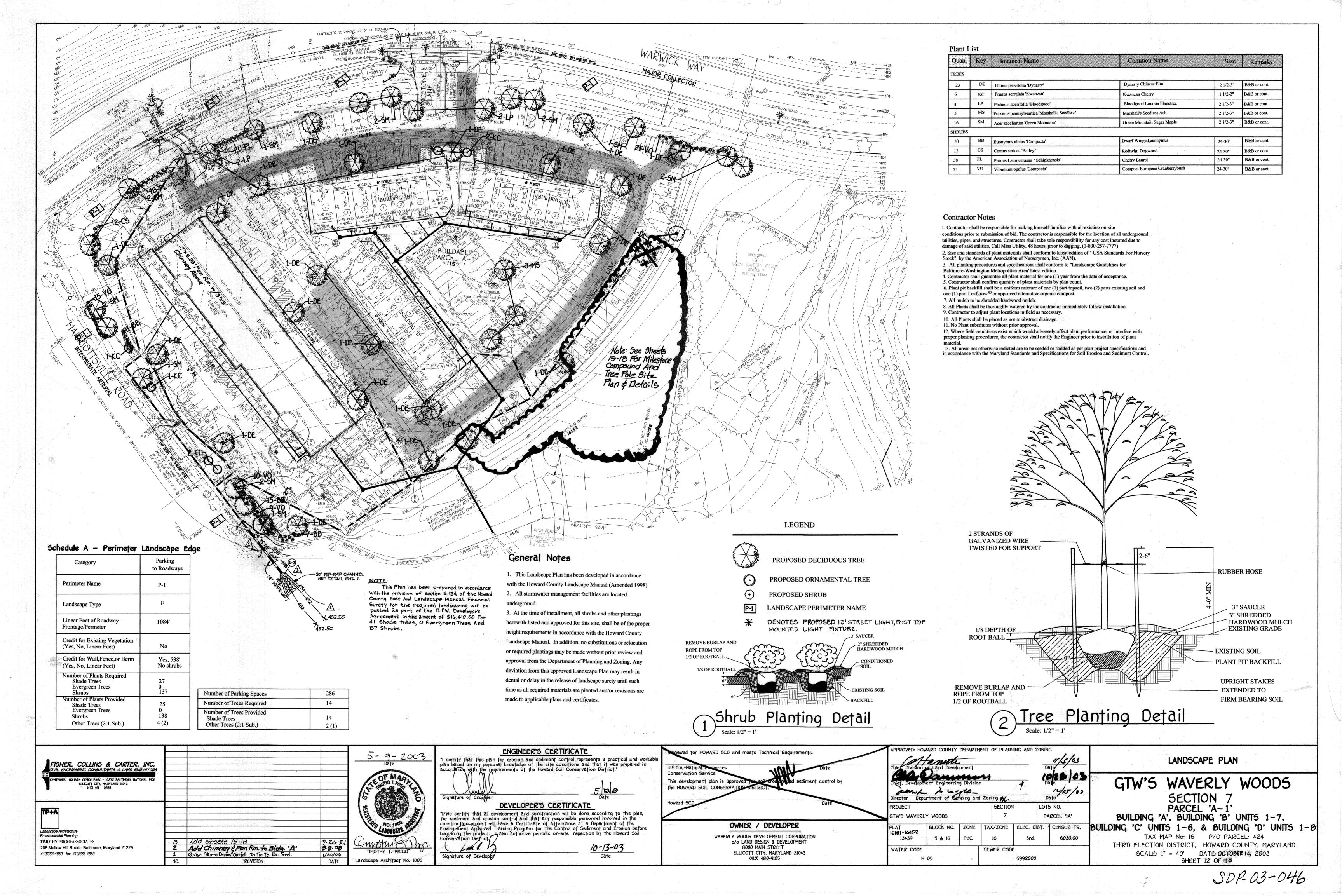
H 05

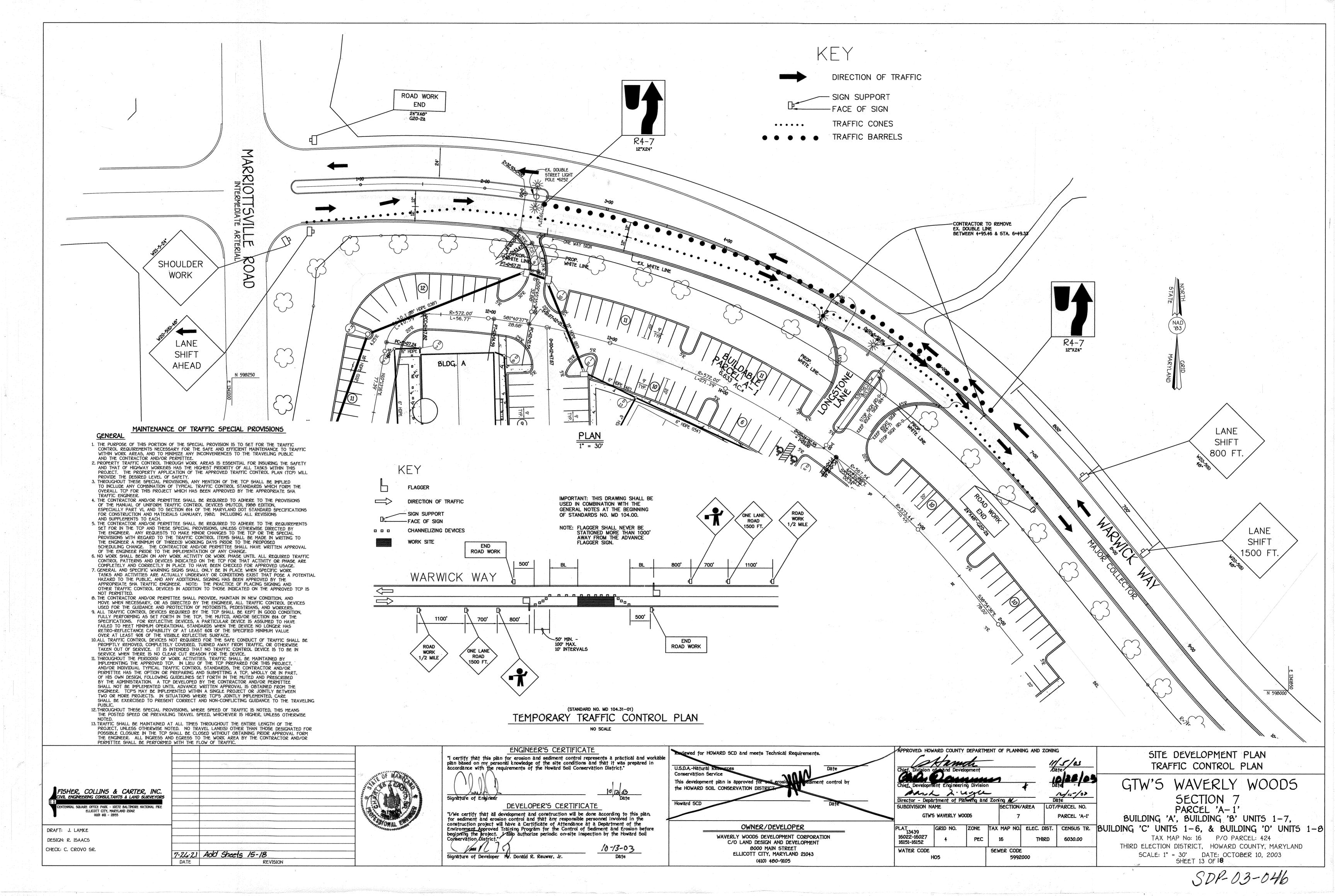
WAVERLY WOODS

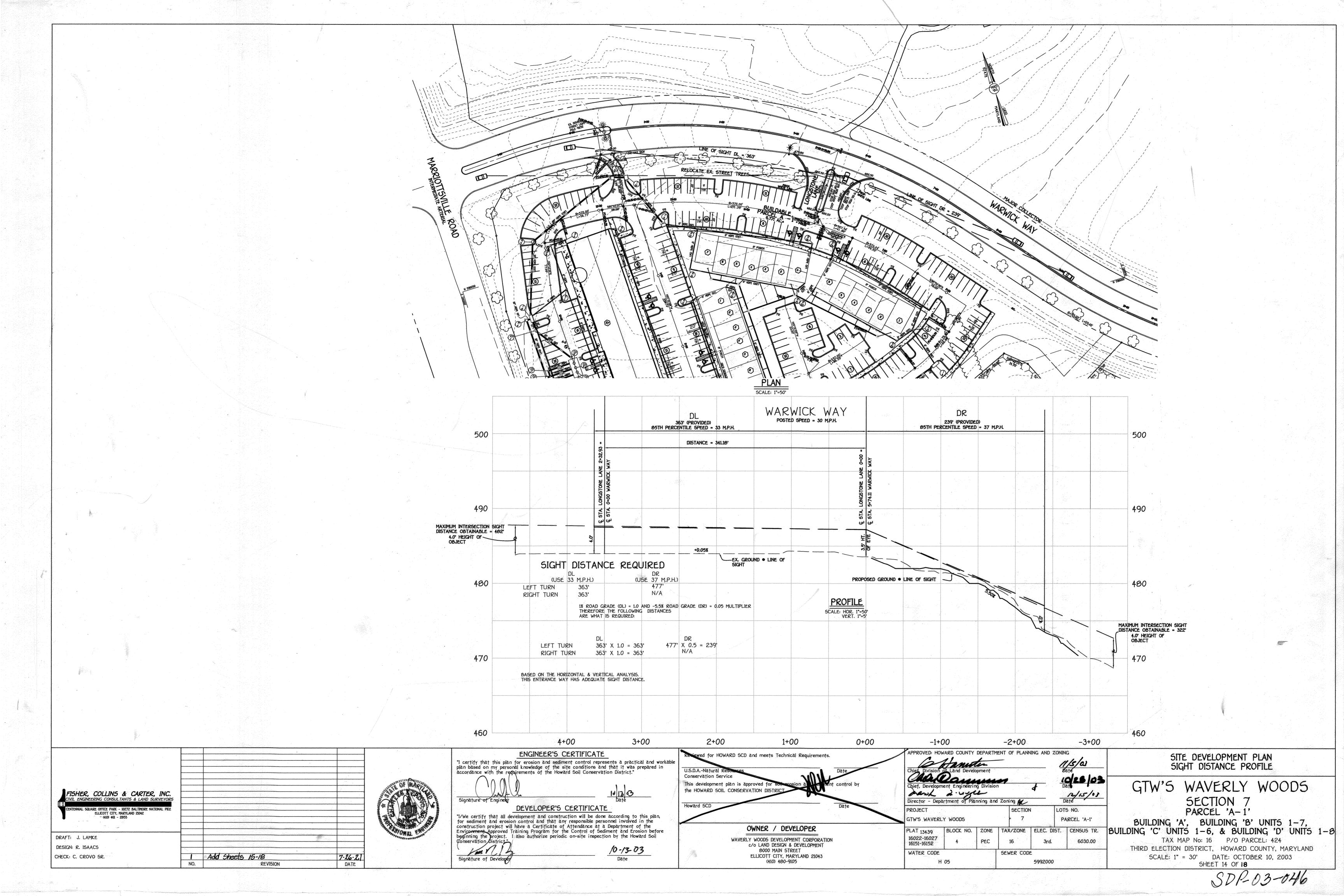
SECTION 7 PARCEL 'A-1' BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

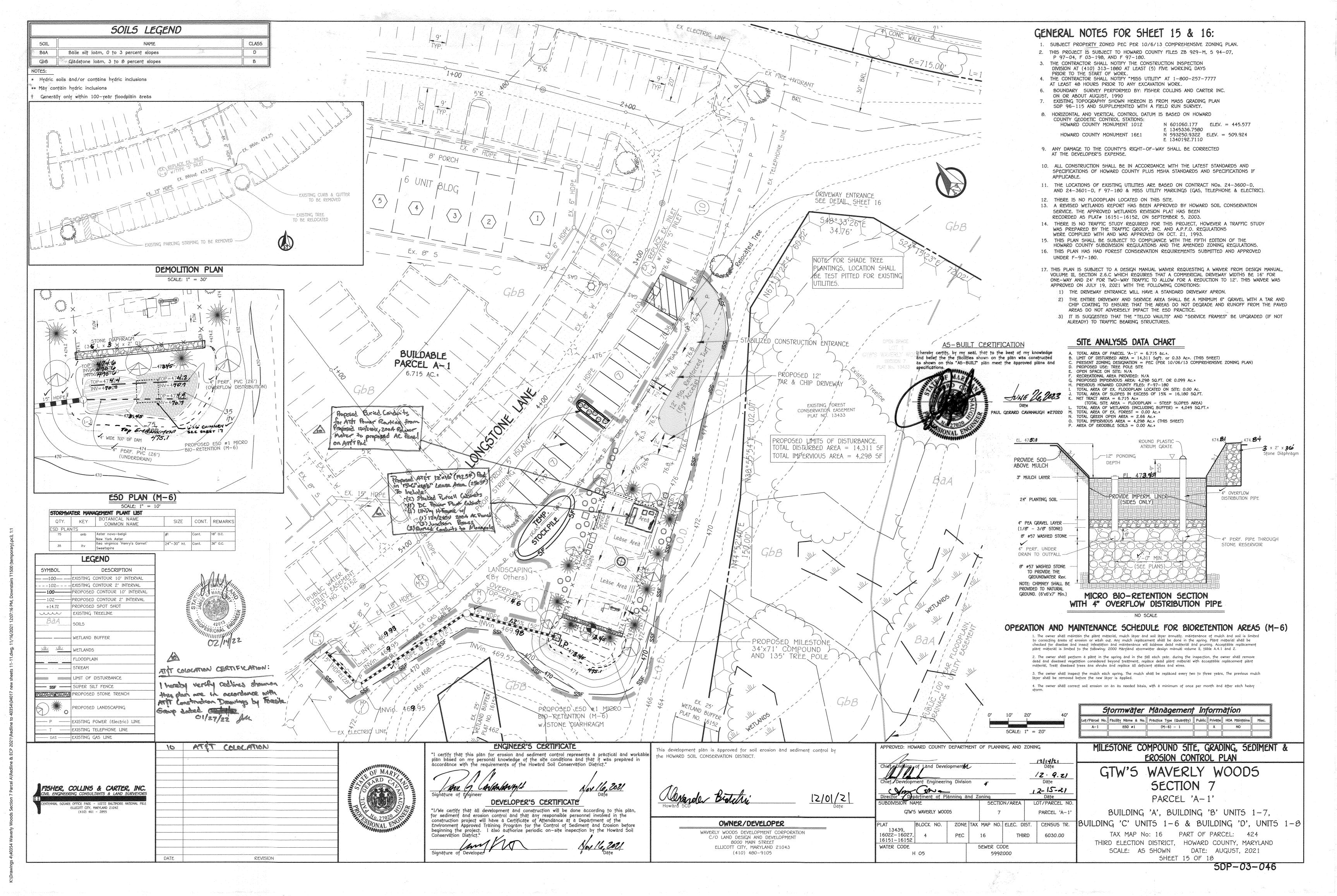
TAX MAP No: 16 P/O PARCEL: 424 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: OCTOBER 10, 2003 SHEET 10 OF 18

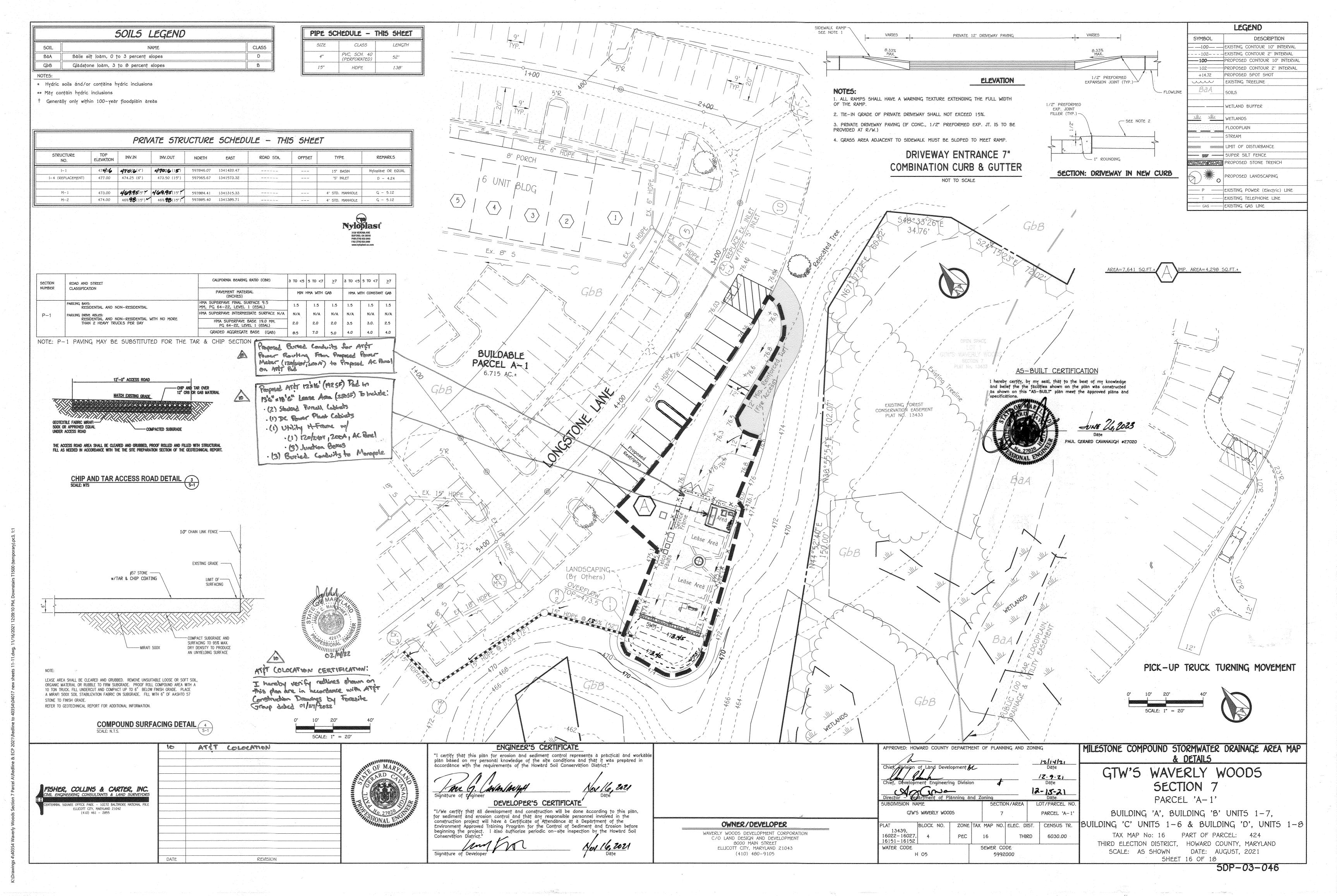




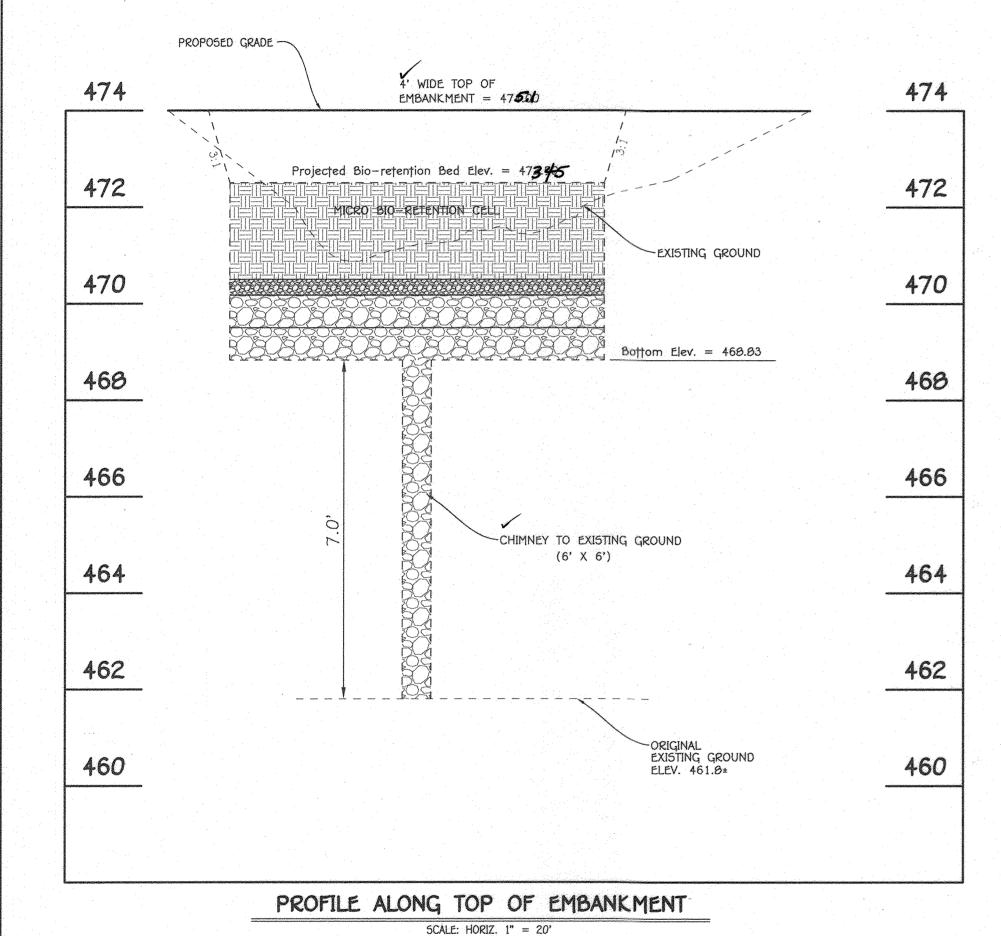








SCALE: HORIZ. 1" = 20'VERT. 1" = 2'

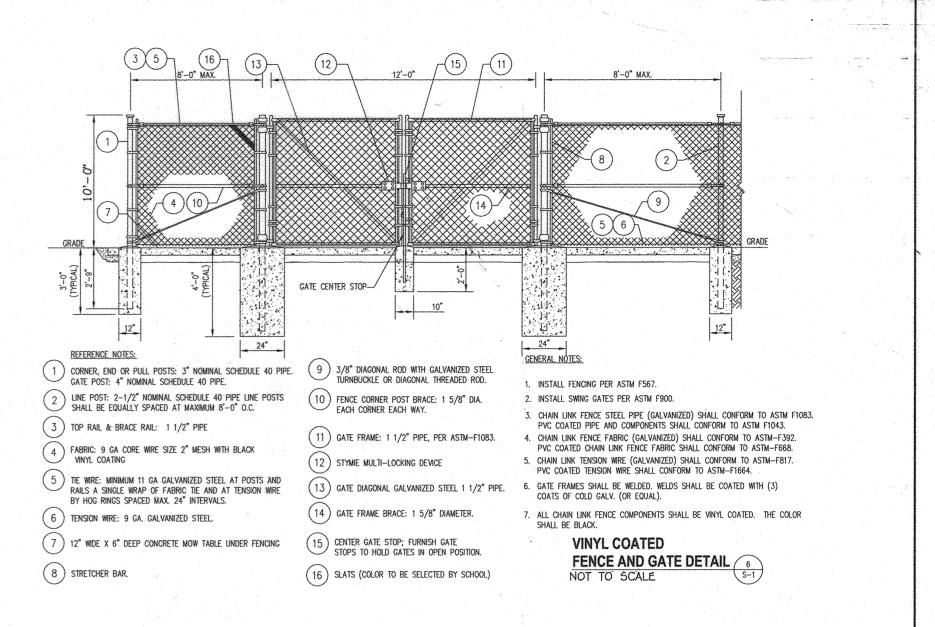


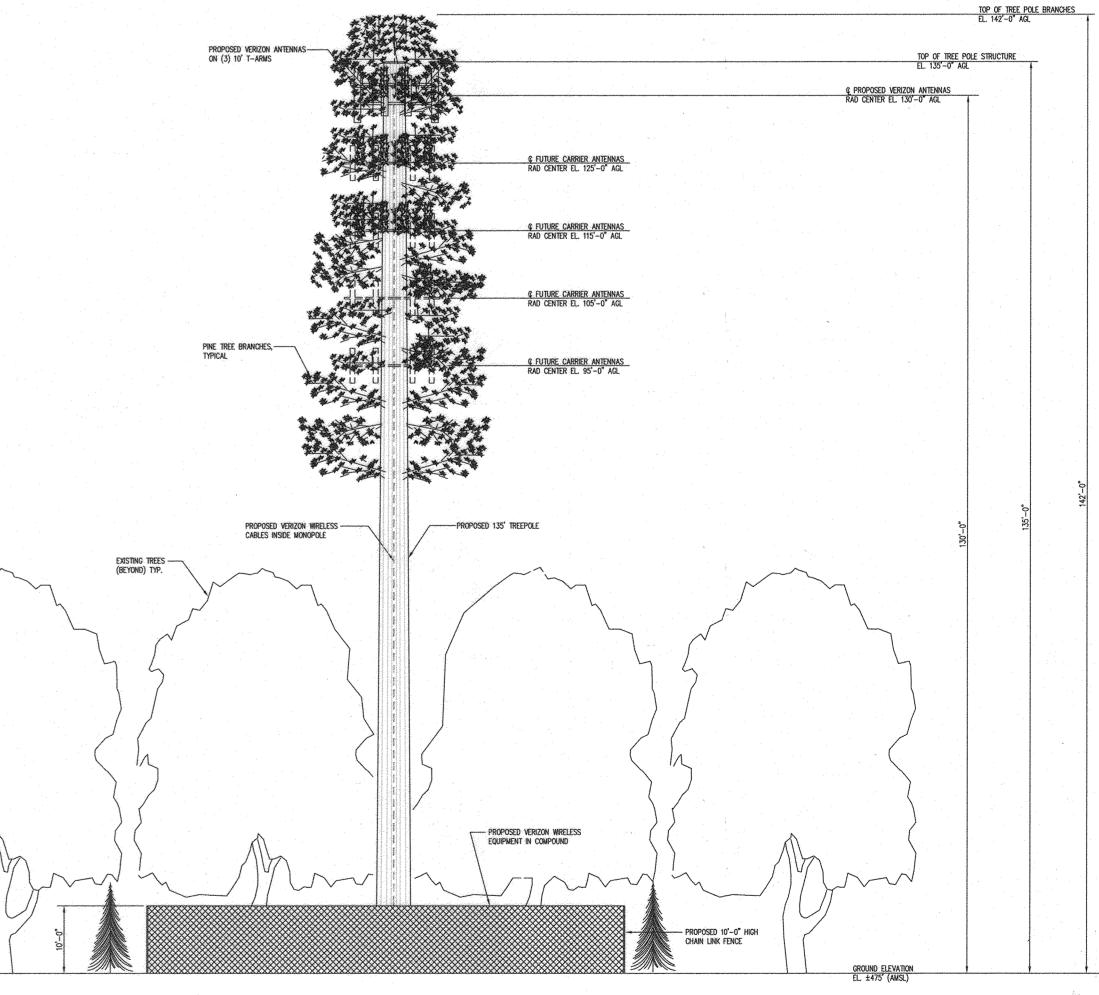
PROJECT NO.: BORING NO.: 02:9465 SWM-1
DRILLER/CONTRACTOR: Site Link Wireless, LLC PROJECT NAME: Milestone Towers Waverly Woods
SITE LOCATION: D And S Drilling, Inc. Longstone Ln, Woodstock, Maryland 21162 NORTHING: EASTING-LOSS OF CIRCULATION THE TOTAL BOTTOM OF CASING DESCRIPTION OF MATERIAL (SC FILL) FILL, CLAYEY SAND, brown, moist, loose (SC FILL) FILL, CLAYEY SAND, trace gravel, S-2 SS 18 8 brown, moist, loose, trace roots (SC FILL) FILL, CLAYEY SAND, trace gravel, S-3 SS 18 14 dark gray, moist, very loose, few wood, (CL FILL) FILL, SANDY CLAY, dark brown, S-4 SS 18 16 moist, firm (SM) SILTY SAND, trace gravel, browntan, moist, loose S-5 SS 18 16 END OF DRILLING AT 15.0 FT THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL ☑ WL (First Encountered) DRY BORING STARTED: Mar 29 2021 CAVE IN DEPTH: 8.60 WL (Completion) Mar 29 2021 HAMMER TYPE: Auto COMPLETED: EQUIPMENT: WL (Seasonal High Water) LOGGED BY: DRILLING METHOD: HSA ☑ WL (Stabilized) DRY ATV GIC
GEOTECHNICAL BOREHOLE LOG

AS-BUILT CERTIFICATION

I hereby certify, by my seal, that to the best of my knowledge and belief the the facilities shown on the plan was constructed as shown on this "A5-BUILT" plan meet the approved plans and

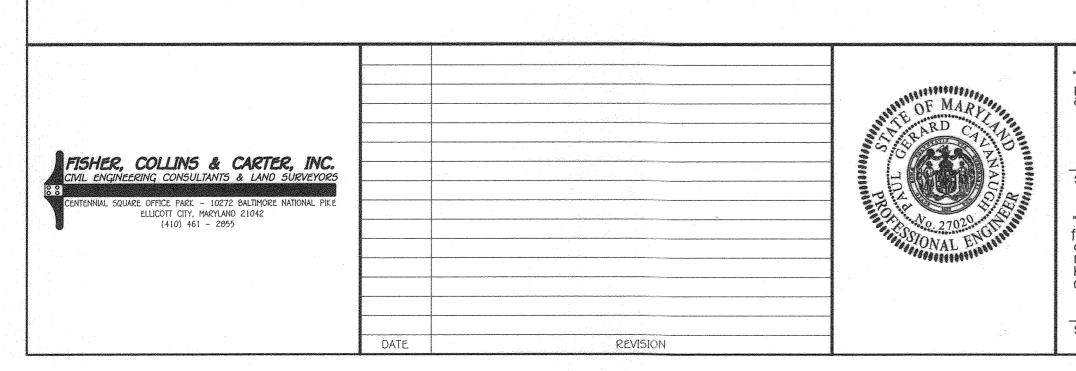






TREE POLE ELEVATION

NOT TO SCALE



VERT. 1" = 2"

ENGINEER'S CERTIFICATE "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."

Nov 16, 2021 DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control 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 inspection by the Howard Soil Conservation District." Nov 16, 2021

OWNER/DEVELOPER WAVERLY WOODS DEVELOPMENT CORPORATION C/O LAND DESIGN AND DEVELOPMENT 8000 MAIN STREET ELLICOTT CITY, MARYLAND 21043 (410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 12/14/21 /Z. 9.Z/ irector Department of Planning and Zoning 12-15-21 LOT/PARCEL NO. SECTION/AREA GTW'S WAVERLY WOODS PARCEL 'A-1 ZONE TAX MAP NO. ELEC. DIST. CENSUS TR. BLOCK NO. 13439, 16022-16027, THIRD 6030.00 16151-16152 WATER CODE SEWER CODE 5992000 H 05

GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'

MILESTONE COMPOUND NOTES & DETAILS

BUILDING 'A', BUILDING 'B' UNITS 1-7,

SHEET 17 OF 18

BUILDING 'C' UNITS 1-6 & BUILDING 'D', UNITS 1-8TAX MAP No: 16 PART OF PARCEL: 424 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: AUGUST, 2021

5DP-03-046

A. Soil Preparation 1. Temporary Stabilization

a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but lef in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the

b. Apply fertilizer and lime as prescribed on the plans.

c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable mean permanent Stabilization

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required

i. Soil pH between 6.0 and 7.0. ii. Soluble salts less than 500 parts per million (ppm).

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable. iv. Soil contains 1.5 percent minimum organic matter by weight. v. Soil contains sufficient pore space to permit adequate root penetration

b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test. e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and triable. Seedbed loosening may be unnecessary on newly disturbed areas.

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is 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.

2. Topsoil salvaged from an existing site may be used provided 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-NRCS.

3. Topsoiling 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.

4. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils ma be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1

b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass,

c. 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.

6. Topsoil Application

a. Erosion and sediment control practices must be maintained when applying topsoil. b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to 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 must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if 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. C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilize on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.

4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.

5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

TEMPORARY SEEDING NOTES (8-4-4)

To stabilize disturbed soils with vegetation for up to 6 months.

To use fast growing vegetation that provides cover on disturbed soils Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary

Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
2. For sites having soil tests performed, use and show the recommended rates by the

testing agency. Soil tests are not required for Temporary Seeding. 3. When stabilization is required outside of a seeding season, apply seed and mulch or straw

mulch alone as prescribed in Section 8-4-3.A.1.b and maintain until the next seeding

1.3			lemporary Seedin	ig bummary	The second second second	1 1
		e (from Figure B. (from Table B.1):	Fertilizer Rate (10-20-20)	Lime Rațe		
	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
	BARLEY	96	3/1 - 5/15, 8/15 - 10/15	1"	436 lb/ac	2 tons/dc
	OAT5	72	3/1 - 5/15, 8/15 - 10/15	1"	(10 lb/ 1000 sf)	(90 lb/ 1000 sf)
	RYE	112	3/1 - 5/15, 8/15 - 10/15	1"		

DATE

REVISION

PERMANENT SEEDING NOTES (8-4-5) A Seed Mixtures

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary .

2. Turfgråss Mixtures

(Hardiness Zones: 7a. 7b)

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.

b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turt will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to \$ pounds per 1000 square feet. One or more cultivars may be blended.

iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15

d. Till dreas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future moving of grasses will pose no

e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse

Permanent Seeding Summary

Jeeu	tuxlute ((from Table B.3):	<u>8</u>					
Vo.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ 0	
8	TALL FESCUE	100	Mar. 1-May 15 Aug. 1-Oct. 15	1/4-1/2 in.	per dcre	90 lb/ac (2 lb/	90 lb/ac (2 lb/	(90 lb/
					(1.0 lb/ 1000 sf)	1000 sf)	1000 sf)	1000 sf)

STANDARD STABILIZATION NOTE FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

a.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

b.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

STANDARDS AND SPECIFICATIONS STOCKPILE AREA (8-4-8)

Definition

The mound or pile of soil protected by appropriately designed erosion and sediment control measures.

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan. The footprint of the stocknile must be sized to accommodate the anticipated volume of material and

Runoff from the stockpile area must drain to a suitable sediment control practice. Access the stockpile area from the upgrade side. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated

based on a side slope ratio no steeper tha 2:1. Benching must be provided in accordance with

flow in a non-erosive manner. 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as

tandard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization. 8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3

STANDARDS AND SPECIFICATIONS (8-4-3)

Definition

The application of seed and mulch to establish vegetative cover

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading

To protect disturbed soils from erosion during and at the end of construction. Conditions Where Practice Applies

a. All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the auglity of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate. Mulch alone may be applied between the fall and spring seeding dates only if the ground is

frozen. The appropriate seeding mixture must be applied when the ground thaws. c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package Use four times the recommended rate when hydroseeding. Note: It is very important to keetp inoculant as cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective. d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals

used for weedcontrol until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1. Permanent Seeding Table 8.3, or site-specific seeding summaries. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil

b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.

Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P 0 (phosphorus),

200 pounds per acre; K O (potassium), 200 pounds per acre. ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any sone time. Do not use burnt or hydrated lime when hydroseeding.

Mix seed and fertilizer on site and seed immediately and without interruption iv. When hydroseeding do not incorporate seed into the soil. B. Mulching

1. Mulch Materials (in order of preference) Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into

> uniform fibrous physical state. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate colot to facilitate visual inspection of the uniformly spread slurry. WCFM, including dye, must contain no germination or growth inhibiting factors.

WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. iv. WCFM material must not contain elements or compounds at concentration levels that will by

WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

Apply mulch to all seeded areas immediately after seeding. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds

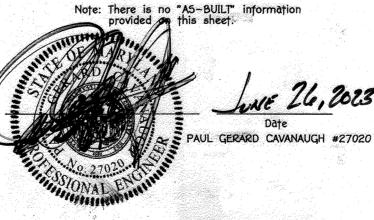
of wood cellulose fiber per 100 gallons of water. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard: i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch

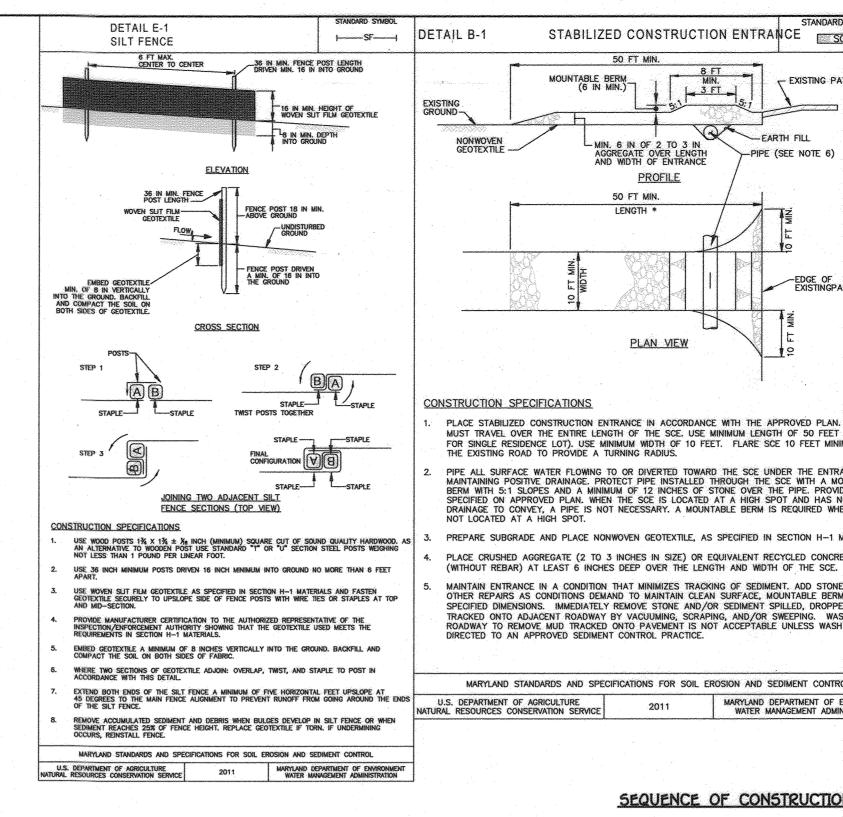
into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of

50 pounds of wood cellulose fiber per 100 gallons of water. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3,000

AS-BUILT CERTIFICATION





HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID). 410-313-1055 after the future LOD and protected areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages: a. Prior to the start of earth

b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,

c. Prior to the start of another phase of construction or opening of another grading unit, d. Prior to the removal or modification of sediment control practices. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection

agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan. 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 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and

all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading. 4. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). emporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if t ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with >15' of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All

concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6) 5. 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 CID.

6. Site Analysis: Total Area of Site: 6.715 Acres (PARCEL 'A-1') 0.33 Acres Area Disturbed: _____0.099 Acres Area to be roofed or paved: Area to be vegetatively stabilized: 0.23 Acres 225 Cu. Yd 200 Cu. Yds. ON-SITE waste/borrow area location:

7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance. 8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the

contractor, made available upon request, is part of every inspection and should include: · Inspection type (routine, pre-storm event, during rain event) Name and title of inspector
 Weather information (current conditions as well as time and amount of last recorded precipitation) weather information (current conditions as well as time and amount of last recorded
 brief description of project's status (e.g., percent complete) and/or current activities
 Evidence of sediment discharges
 Identification of plan deficiencies
 Identification of sediment controls that require maintenance

 Identification of missing or improperly installed sediment controls Compliance status regarding the sequence of construction and stabilization requirements
 Photographs Monitoring/sampling
 Maintenance and/or corrective action performed

· Other inspection items as required by the General Permit for Stormwater Associated with Construction . Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is shorter. 10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by he HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of

HSCD-approved field changes 11. Disturbance shall not occur outside the LO.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the HSCD. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time. 12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a

sediment basin or other approved washout structure. 13. Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade. 14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbricated at 25' minimum intervals, with lower ends curled uphill by 2' in elevation

15. Stream channels must not be disturbed during the following restricted time periods • Use I and IP March 1 - June 15 • Use III and IIIP October 1 - April 30 • Use IV March 1 - May 31

the HOWARD SOIL CONSERVATION DISTRICT.

16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

TYPE A TYPE B ISOMETRIC VIEW EDGE OF ROADWAY OR TO OF EARTH DIK 6 IN MIN. -FYCAVATE BACKFILL AND SECTION FOR TYPE A AND B MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

GROUND SURFACE— GALVANIZED CHAIN LINK FENCE WITH WOVEN SLIT FILM GEOTEXTILE **ELEVATION** EXISTINGPAVEMENT CHAIN LINK FENCING-WOVEN SLIT FILM GEOTEXTILE-FLOW -CROSS SECTION PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES CONSTRUCTION SPECIFICATIONS MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SI FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. O CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAK OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE. THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTAL MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

SUPER SILT

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MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

DETAIL E-3

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMITS. (2 WEEKS)

STABILIZED CONSTRUCTION ENTRANCE

PROFILE

PLAN VIEW

50 FT MIN.

FNGTH

- FXISTING PAVEMENT

-EARTH FIL

2. NOTIFY "MISS UTILITY" AT LEAST 40 HOURS BEFORE ANY WORK AT 1-000-257-7777. NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION AT 410-313-1670 AT LEAST 24-HOURS BEFORE STARTING ANY WORK.

3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE, PERIMETER SUPER-SILT FENCE AS SHOWN ON THE PLANS. CLEAR AND GRUB SITE. (2 DAYS) . ONCE THE COUNTY SEDIMENT CONTROL INSPECTOR APPROVES THE SCE AND SUPER-SILT FENCING, THE CONTRACTOR CAN START ON THE DEMO OF THE CURA & GUTTER REPLACEMENT OF EXISTING INLET (1-4) & INSTALL DRIVEWAY APRON. (1 WEEK)

5. CONCURRENT WITH GRADING, THE CONTRACTOR CAN INSTALL TREE POLE & UTILITIES. (1 WEEK). 6. THE CONTRACTOR SHALL INSTALL PAVING & TURF AS SHOWN IN PLAN. INSTALL LANDSCAPED ISLAND AND RESTRIPE PARKING. (3 WEEKS) 7. AS FOR THE SWM BIO-RETENTION CELL, THE CONSTRUCTION OF THE COMPLETE SOIL PROFILE OF FILTER MEDIA, STONE LAYERS. UNDERDRAIN AND

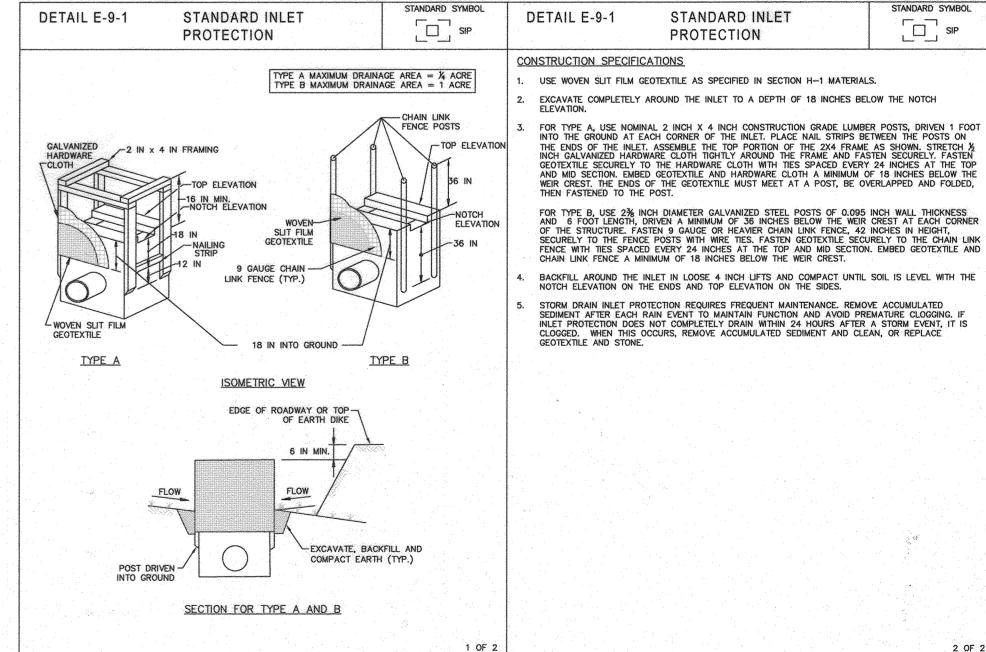
STABILIZED. (INSTALL INLET PROTECTION AS SHOWN ON THE PLAN OR AS ANOTHER OPTION, BUILD THE ESD AND WRAP IN SSF.) (1 WEEK)

6. STABILIZE ALL REMAINING AREAS DISTURBED AREAS ON-SITE WITH PERMANENT SEEDING OR OPTIONAL SODDING OR PROTECT MICRO BIO-RETENTION AREA WITH SILT FENCING. THE FINAL CONSTRUCTION OF THE BIO-RETENTION FACILITIES CAN BE COMPLETED WITH THE FILTER MEDIA AND PLANTINGS.

9. AFTER SITE HAS BEEN STABILIZED AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, ALL SEDIMENT CONTROL DEVICES MAY BE REMOVED.

STANDARD NOTE: THE CONTRACTOR SHALL COORDINATE WITH THE INSPECTOR IN REGARDS TO THE REQUIREMENT THAT NO MORE THAN 20-ACRES OF "OPEN" GROUND SHALL BE DISTURBED AT ANY GIVEN TIME, IF REQUIRED. THIS PLAN AND ASSOCIATED L.O.D. IS LESS THAN 20-ACRES IN SIZE.

NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS.



FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855



ENGINEER'S CERTIFICATE 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."

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the invironment 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

This development plan is approved for soil erosion and sediment control by

OWNER/DEVELOPER WAVERLY WOODS DEVELOPMENT CORPORATION C/O LAND DESIGN AND DEVELOPMENT 8000 MAIN STREET ELLICOTT CITY, MARYLAND 21043 (410) 480-9105

U.S. DEPARTMENT OF AGRICULTURE MILESTONE COMPOUND SEDIMENT AND EROSION CONTROL APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 12/14/21 12.9.21 12-15-21 Director - Department of Planning and Zoning SECTION/AREA LOT/PARCEL NO GTW'S WAVERLY WOODS PARCEL 'A-ZONE TAX MAP NO. ELEC. DIST. BLOCK NO. CENSUS TR. 13439. 16022-16027, PEC THIRD 16 6030.00 16151-16152 WATER CODE SEWER CODE 5992000

NOTES & DETAILS GTW'S WAVERLY WOODS BUILDING 'A', BUILDING 'B' UNITS 1-7,

BUILDING 'C' UNITS 1-6 & BUILDING 'D'. UNITS 1-8TAX MAP No: 16 PART OF PARCEL: 424 THIRD ELECTION DISTRICT. HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JULY 26, 2021

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

SHEET 18 OF 18