

(HO	USE MATI	RIX FOR LOTS 6	7,70-71,75-76, 87 & 115**
LOT NO.	BOX TYPE	MODEL "A"	MODEL "B"
67	A	Y, 2, 3	Y, 2, 3
70	A	Y, 2, 3	Y, 2, 3
71	A	Y, 2, 3	Y, 2, 3
75	A	Y, 1, 3	Y, 1, 3
76	A	Y, 1, 3	Y, 1, 3
87	A	Y, 2, 5	Y, 2, 3
115	A	Y, 1, 3*	Y, 1, 3×

	H	OUSE M	ATRIX FOR	LOTS 80-	-86**	
_OT NO.	BOX TYPE	HARVARD	RHODE ISLAND II	RICHMOND	VERMONT	VILLA NOVA
80	B1	N	Y, 2, 3	l N	Y, 2, 3	Y, 2, 5
81	B2	N	Y. 2. 3	N	Y, 2, 3	N
82	E	Y, 2, 3	Y, 2, 3	Y, 2, 3	Y, 2, 3	Y, 2, 3
83	E	Y, 2, 3*	Y, 2, 3*	Y, 2, 3*	Y, 2, 3*	Y, 2, 3*
84	E	Y. 2. 3*	Y, 2, 3*	Y, 2, 3*	Y, 2, 3*	Y, 2, 3*
85	В	N	Y, 2, 3	N	Y, 2, 3	Y, 2, 5
86	В	N	Y. 2, 3	N	Y, 2, 3	Y. 2, 5

	the state of the s		and the state of the second	
	HOUSE	E MATRIX FOR	R LOTS 68-69,& 78	8-79##
LOT NO.	BOX TYPE	BRADFORD	PIN OAK	WHITE OAK
68	D	Y, 2, 3*	Y, 2, 3*	Y. 2. 3*
69	D	Y. 1. 3	Y. 1. 3	Y. 1, 3
78	D1	Y, 2, 3*	Y. 2. 3*	Y, 2, 3*
₩ 79	B (MOD.)	Y. 1. 3	North and the state of the stat	Y. 1. 3

- Y = HOUSE TYPE DOES FIT WITH THE OPTIONS AS INDICATED N = HOUSE TYPE DOES NOT FIT
- * = WALKOUT BASEMENT ALLOWED

- = GARAGE LOCATED ON THE RIGHT SIDE = GARAGE LOCATED ON THE LEFT SIDE
- = ALL OPTIONS AS INDICATED ON THIS SHEET = NO 3-CAR GARAGE
- = NO SIDE SOLARIUM/SUNROOM = NO REAR SOLARIUM/SUNROOM
- = NO SIDE ENTRY GARAGE
- NO WRAP AROUNDED PORCH

 EITHER 3-CAR GARAGE OR SIDE SOLARIUM, BUT NOT BOTH

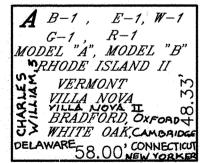
 EITHER 3-CAR GARAGE OR WRAP AROUNDED PORCH, BUT NOT BOTH

 SIDE ENTRY GARAGE WITH LOT RESITE APPROVAL
- NO REAR BREAKFAST ROOM EXPANSION MODIFIED (MOD.) - ONLY HOUSES AS INDICATED ON MATRIX ARE ALLOWED IN ORDER TO OBTAIN
- 13 = NO 2' SIDE EXTENSION
- 14. = NO 2' REAR EXTENSION

HOUSE REVISION (RESITE) WILL BE REQUIRED WHEN THE FOLLOWING OCCURS:

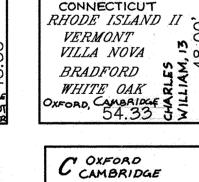
- 1. ADD OR DELETE A HOUSE TYPE.
- 2. CHANGE THE DRIVEWAY LOCATION FROM FRONT LOADED TO
 A SIDE—LOADED GARAGE.
 3. "FLIP" THE HOUSE SO THAT THE GARAGE AND DRIVEWAY ARE
 OPPOSITE WHAT THE APPROVED SDP SHOWS.
 4. CHANGE THE ELEVATION OF THE HOUSE ONE (1) FOOT (PLUS OR
- 5. TO CHANGE THE GRADING FROM IN-GROUND BASEMENT TO WALKOUT

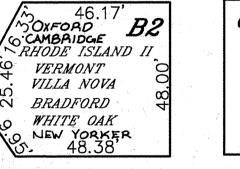
**HOUSE MATRICES ARE FOR THOSE SPECIFIC LOTS AS INDICATED ABOVE.



BASEMENT.

B NEW YORKER CONNECTICUT
RHODE ISLAND II VERMONT VILLA NOVA BRADFORD WHITE OAK OXFORD, CAMBRIDGE:





CONNECTICUT 53.29'

B-1, E-1, W-1

D1 G-1, R-1 CHARLES

WILLIAM, 3

CAMBRICE VERMONT, VILLANOVAII

♥ MODEL "A", MODEL "B"

DELAWARE, PIN OAK 64.42'

BRADFORD, WHITE OAK

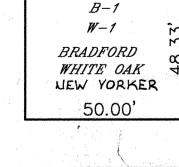
AND RESEARCH

RHODE ISLAND II

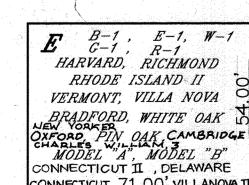
R = 80.00'= 17.20'

MOXFORD, VILLA NOVA

5.63



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING



BRADFORD, WHITE OAK ON THE OAK ON THE OAK ON THE OAK CAMBRIDGE CHARLES WILLIAM 3 MODEL "B" CONNECTICUT 71.00' VILLANOVAI

54.33

3.93'CAMBRIDGE **B1**connecticut
RHODE ISLAND II

VERMONT, CHARLESON VILLA NOVAWILLIAM ... 13,14 OF BRADFORD, OXFORD

WHITE OAK DELAWARE 35.50' 20.18

B-1 , E-1 , W-1 G-1 , R-1 NEW YORKS

RHODE ISLAND II

CONNECTICUT, VERMONT, CAMBRIDGEN

DELAWARE, VILLA NOVA, OXFORD X

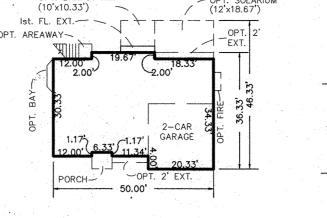
MODEL "A", MODEL "B"

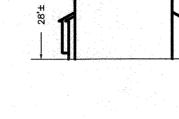
RICHMOND 70 00' CONNECTICUT II

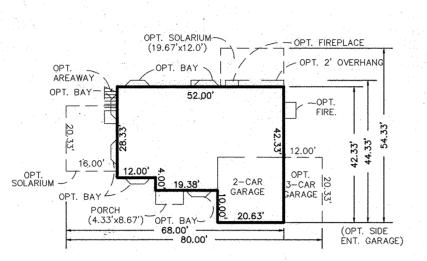
BRADFORD, WHITE OAK
WILLAM, 3 PIN OAK, VILLANOVA II

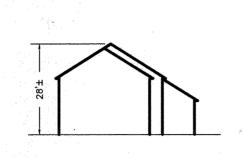
FCHARLES WILLIAM, OXFORD DELAWARE CONNECTICUT CONNECTICUT II W CAMBRIDGE VILLA NOVA II

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS

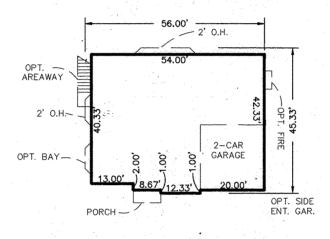


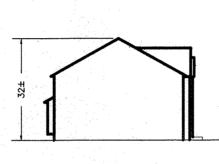


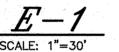


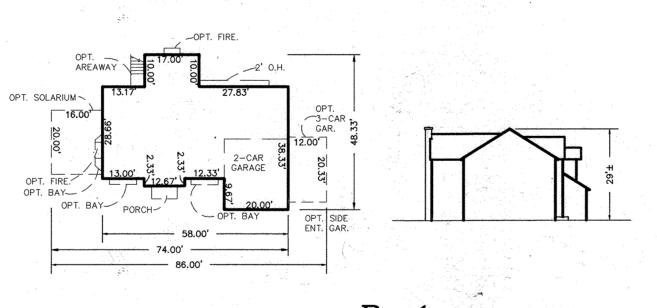


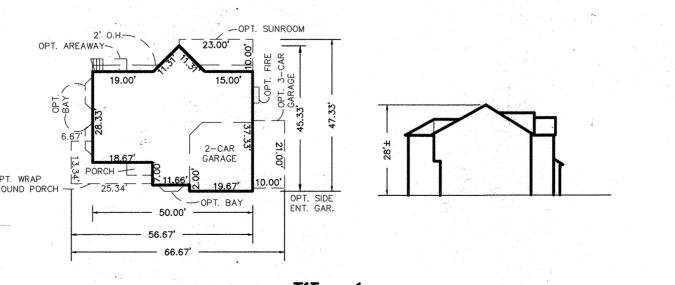






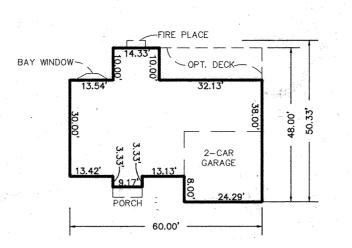




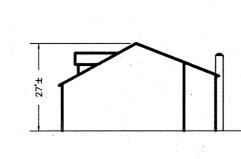


SCALE: 1"=30'

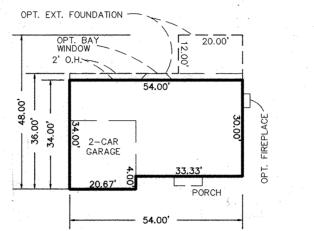


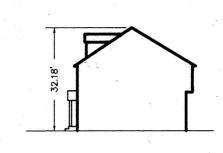


FOR HOUSE TYPES AND/OR OPTIONS FOR EACH LOT, SEE HOUSE MATRIX THIS SHEET

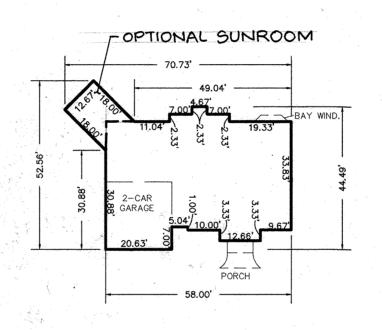


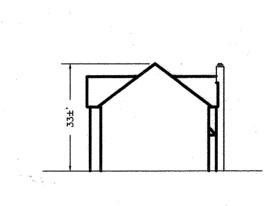
HARVARD



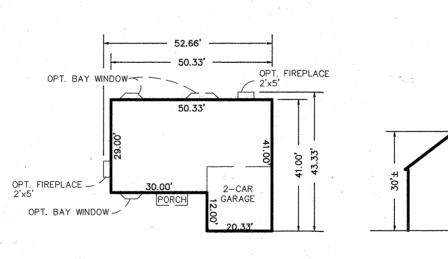


RHODE ISLAND II

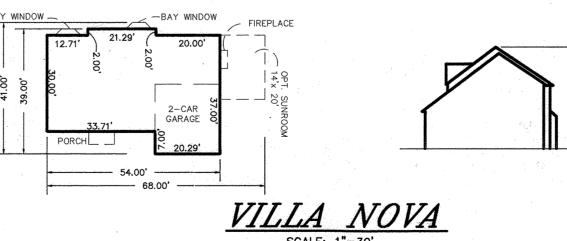




RICHMOND

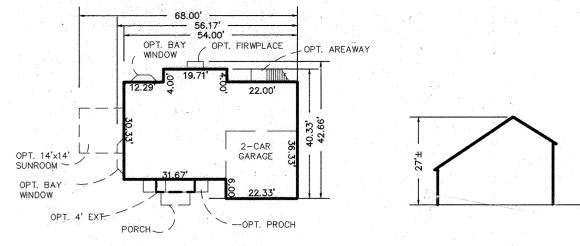


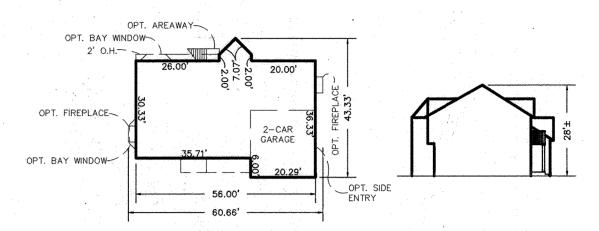
VERMONT SCALE: 1"=30"



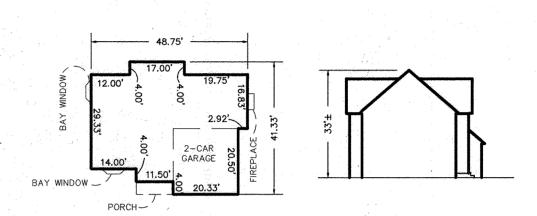
PERMIT INFORMATION CHART

SUBDIVISION I			SECTIO	ON RESI N 2 2 & 113-11		E 5	o reason and commence and the land	
SECTION 2			RCEL #	LIBER & FO 3288/23 2549/32	OLIO 9	PREVIOUS FILE: S-89-50,P-93-09 F-94-102,WP-94-01 F-92-50		
PLAT No. 11397 TO 11403		BLOCK No. ZONI てきる R-2		TAX MAP		DIST.	CENSUS 6027	
WATER CODE	G01			SEWER CODE		1257013		
SCALE:	AS SH	IOWN	· · · · · · · · · · · · · · · · · · ·	DATE:	NO	V.,1994		

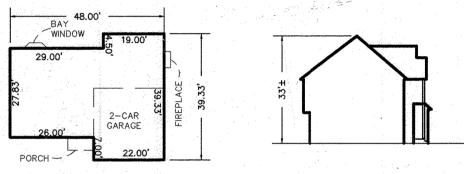




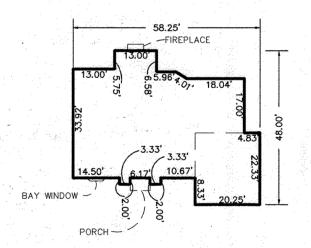
THE MODEL SCALE: 1"=30"



WHITE OAK SCALE: 1"=30"



THE BRADFORD SCALE: 1"=30"

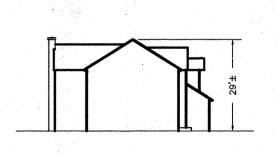


OWNER/DEVELOPER:

(410) 465-4244

CHK: CAM

SDC GROUP P.O. BOX 417



		ADD CHARLES WILLIAM TO GENERIC BOXES. ADD NEW YORKER TO GENERIC BOXES.	
		UPDATE GENERIC BOXES A 4 F	
2	4-24-96	ADD 2 HOUSE TYPES TO MATRIX	
ندان سرکت توشید پرکس	12-6-95	ADD 4 HOUSE TYPES TO MATRIX	
	DATE	REVISION	

TSA GROUP, INC. planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-8105

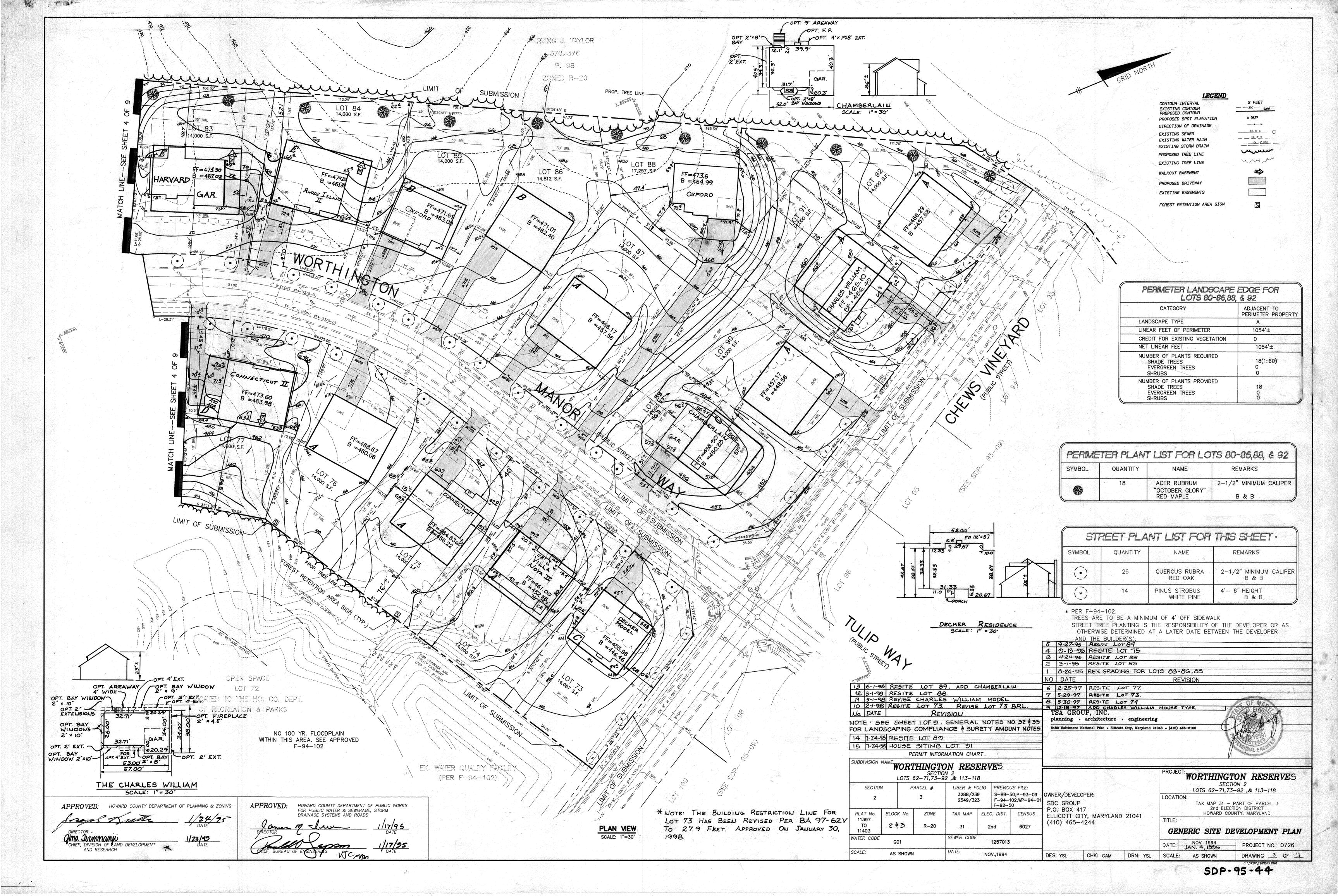


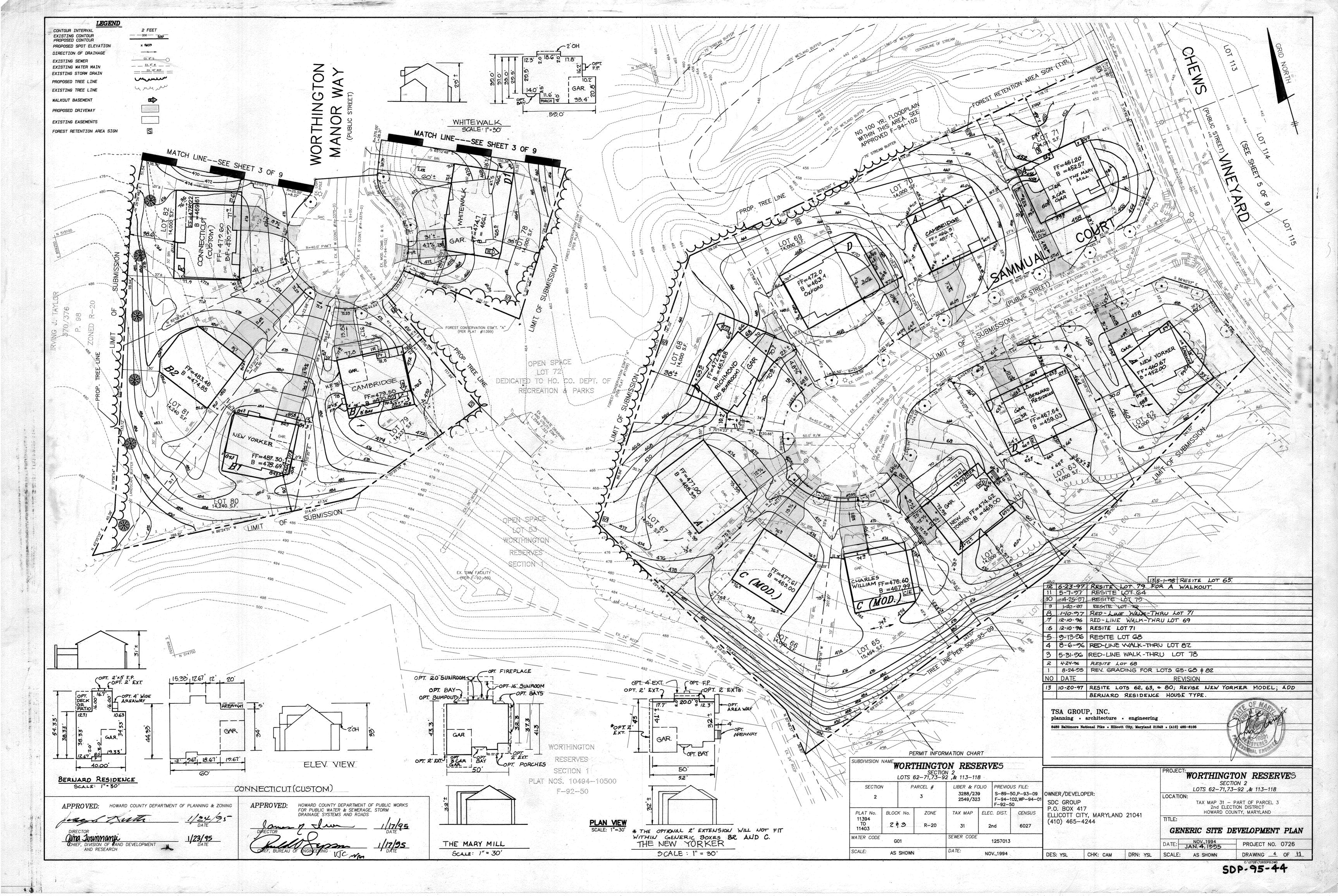
WORTHINGTON RESERVES ELLICOTT CITY, MARYLAND 21041

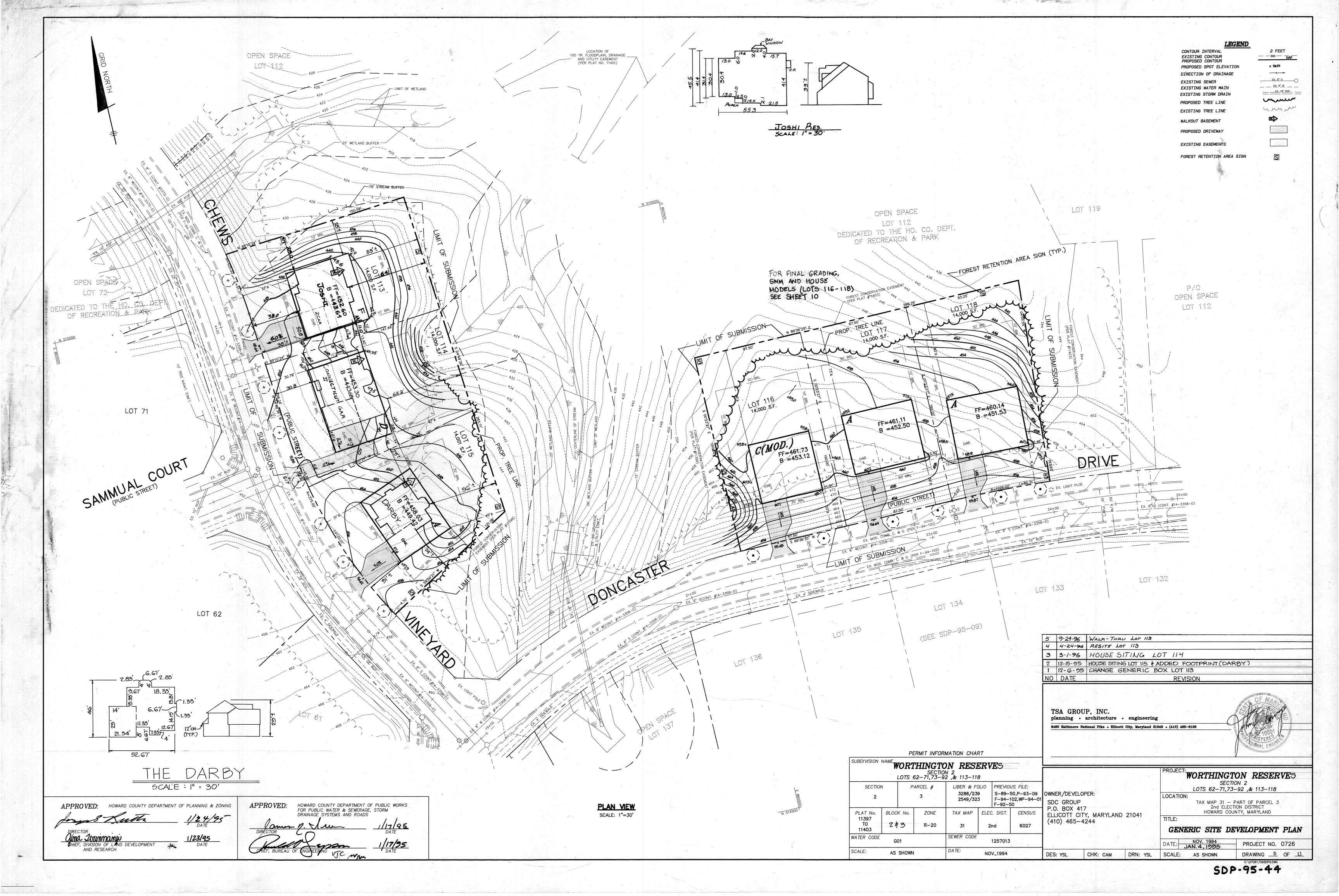
SECTION 2 LOTS 62-71,73-92 ,& 113-118 TAX MAP 31 - PART OF PARCEL 3 HOWARD COUNTY, MARYLAND

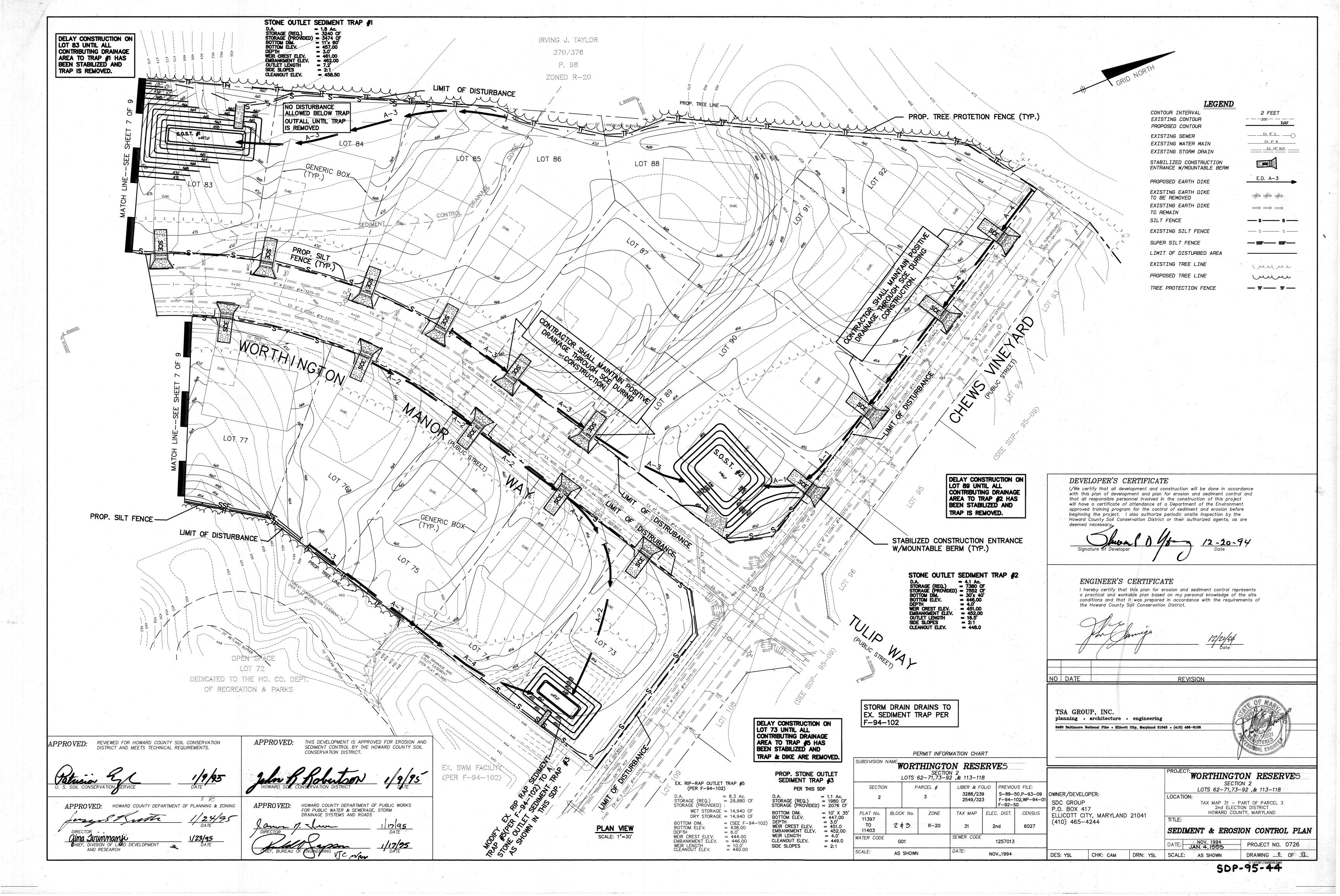
GENERIC SITE DEVELOPMENT PLAN (HOUSE MATRIX & HOUSE TYPES) DATE: NOV. 1994 PROJECT NO. 0726 DRAWING _2 OF _H_ DRN: YSL | SCALE: AS SHOWN

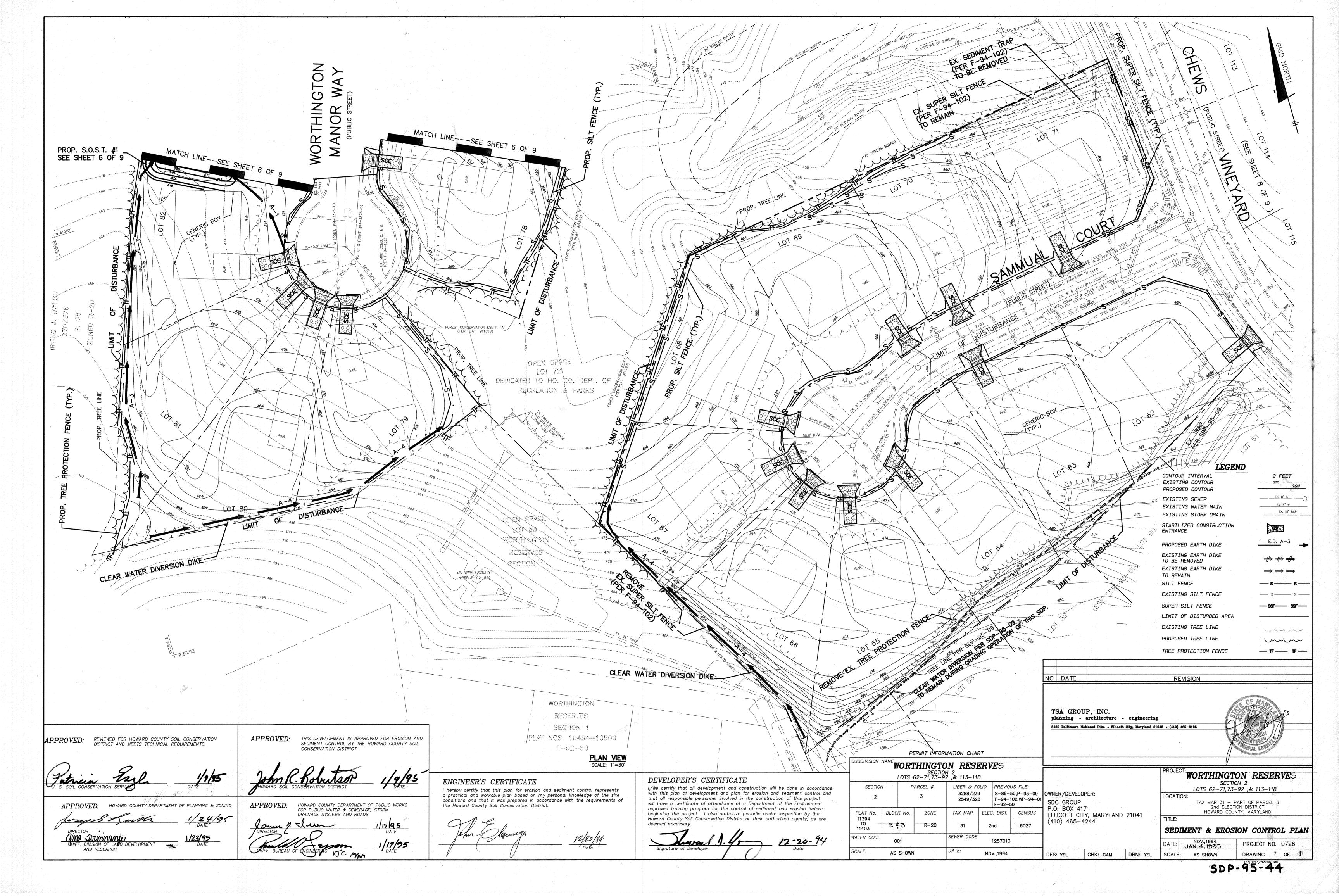
SDP-95-44

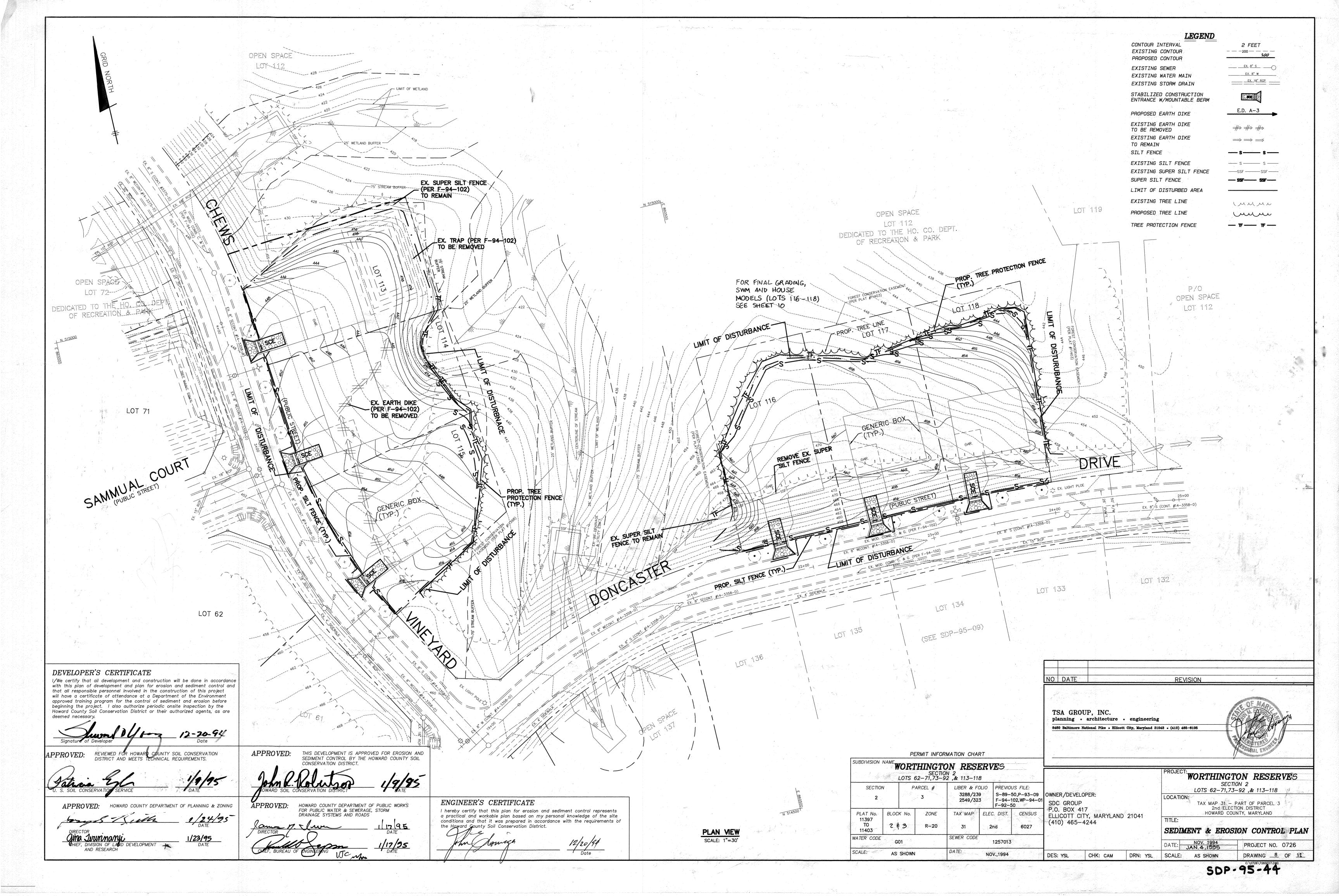












PERMANENT SEEDING NOTES

Apply to graded or elected area not subject to immediate further disturbance where a permacent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil be raking, discing or other acceptable means before seeding. (if not previously loosened)

Soil Amendments: In lieu of soil test recommendations, use on the following

- 1) Preferred Apply 2 tone per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 ef).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Feecus per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through February 28, protect site by: Option 1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) use sod. Option 3) seed with 80 lbs/acre Kentucky 31 Toll Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/12 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Maintenance: inspect all seeded areas and make needed repairs, replacements and reseedings.

SEDDIENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- 2. All vegetative and structural practices are to be installed accordingly 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 disturbances or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 colendar 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.
- 5. All disturbed areas must be stabilized within the time period specified above in accordance with the "1991 Maryland Standards and Specifications for Soil Erosion and Sediment Control" for Permanent Seedings (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: Area to be Disturbed: 11.49 Area to be roofed or paved: 3.07 Area to be vegetatively stabilized: 8.42
- Total Cut: 46011 77633 cy. Offsite Waste/Borrow Area Location : * 8. Any sediment control proctice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector. 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may
- not be authorized until this initial approval by the inspection agency is made. 11. Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter. 12. Quantities and estimates shown are for sediment control purposes only.
- Contractor shall prepare his/her own quantity estimates to his/her satisfaction. • It is the responsibility of the contractor to identify the spoil/borrow elte and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

SEQUENCE OF CONSTRUCTION

Notify Sediment Control Division 48 hours prior to start of constructions.

- 1. Obtain grading permit
- 2. Install tree protection fences as indicated on this plan.
- 3. Clear and grubb the site as indicated in this plan.
- 4. Inspect existing sediment and erosion control devices and repair
- or re-install them if required. Continued using the existing Sediment Basin as designed under F-94-102. 5. Install new sediment and erosion control devices and stabilize.
- 6. Excavate for foundations, rough grade and temporarily stabilize. Except Lots 73 & 83 delay construction of these lots until the site is stabilized or the earth dike is removed with the approval of Howard County, adiment Control inspector.
- 7. Construct structures and driveways.

DEVELOPER CERTIFICATE

8. Final grade and stabilize in accordance with standards and specifications

I/We certify that all development and construction will be done in accordance

with this plan of development and plan for erosion and sediment control and

that all responsible personnel involved in the construction of this 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 onsite inspection by the

9. Upon approval of the Howard County sediment control inspector, remove sediment and erosion control devices and stabilize.

ENGINEER'S CERTIFICATE

Day 1

Days 2-3

Daye 4-5

Daye 6-7

Days 8-10

Days 10-70

Days 71-81

Days 82-85

Days 86-90

APPROVED:

I hereby 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 County Soil Conservation District.

TEMPORARY SEEDING NOTES

as soon as possible in the spring, or use sod.

gallons per acre (8 gal/1000 ef) for anchoring.

Sediment Control for rate and methods not covered.

bebeen is needed.

Apply to graded or cleared areas likely to be redisturbed where a short-term

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or

Soll Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

Seeding: For periods March 1 through April 30 and from August 15 through

For the period May 1 through August 14, seed with 3 lbs per ocre of Weeping

November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbe/1000 sf).

Lovegrass (0.07 lbs/1000 sf). For the period November 16 through February 28,

protect site by applying 2 tons per acre of well anchored straw mulch and seed

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbe/1000 sf) of unrotted

small grain straw immediately after seeding. Anchor mulch immediately after

application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 ef)

of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and

-Min 11'--

FOREST

RETENTION

AREA

MACHINERY, DUMPING

OR STORAGE OF ANY MATERIALS IS PROHIBITED

VIOLATORS ARE SUBJECT TO

FINES AS IMPOSED BY THE

MARYLAND FOREST

CONSERVATION ACT OF

SIGN DETAIL

other acceptable means before seeding. (If not previously loosened)

Howard County Soil Conservation District or their authorized agents, as are deemed necessary.

HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

LOND DEVELOPMENT AND RESEARCH

FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS Lamos

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

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

LAME OF APPEAR TO SHE OF THE OF THE AREA DRIVEWAY ENTRANCE : AUIL 101-1" UP .. 20"-1" UN Count Strange Lievates CHEST DESCON COLLEGE CLES 6":6" 37.9237.2 TOTAL STREET OF THE CONTROL OF THE LINE STREET OF T 15 SLOPE 72 SLOPE FATAL-COM JOINT FILLER PROVIDED AT THE CORE. REV JAN 1989 RESIDENTIAL DRIVERAY ENTRANCE CLOSED SECTION WITH HODIFIED COMBINATION CURB AND GUTTER AND SIDERALK NOT TO SCALE LOTS 62-66,73-79 \$ 89-92

STABILIZED CONSTRUCTION ENTRANCE

PROFILE

PLAN VIEW

CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 1° stone, or recipled or respeled congrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 10 foot minimum length would apply).
3. Thickness - Not less than siz (6) inches.
4. Width - Ten (10) foot minimum, had not less than the feet with at

4. Width - Ten (10) foot minimus, had not less than the full winds at points where ingress or egrees occups.

5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a simple family residence lot.

6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable bern with Srl slopes will be permitted.

7. Heintenance - The entrance shall be saintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This My require periodic top drawing with additional stone as conditions demand and repair and/or cleanout of any missaves seed to trap mediannt. All rediment spilled, dropped, weehed or tracked onto public rights-of-way milt be removed imediately.

public rights-of-way. Men vashing is required, it shall be done on an area stabilized with atone and which drains into an approved jediment trayping

device.

1. Periodic Inspection and needed maintenance shall be provided after each rain

to remove immediately,

In Maching - Wheels shall be cleaned to remove sediment print as entra

STANDARD SYMBOL THE

LA THEMMAN TERNALS, AND TO THE CONTROL OF MINISTERS PRODUCT AND

STONE OUTLET SEDMENT TRAP T

PRIVATE DRIVEWAY

CHACADAM ORIVEWAY

PAVING SECTION P.1 OR AS APPROVED BY DEPT OF PUBLIC WORKS

CLOSED SECTION ROADWAY WITHOUT

CONCRETE SIDEWALK

NOT TO SCALE

LOTS 67-71,113-118 \$ 80-88

-1/2" PREFORMED EXE JOINT

FILLER IF EXISTING CUM

TOTS, REMOVE & RECONSTRUCT CURB

NOTE & TIE -IN GRADE OF PRIVATE DRIVETE INTEREST SHALL NOT EXCEED INT.

CUPS TYPE VARIES

-CHOPE & %

TOUTTER TO FIRST JOINT ON EITHE

- OFFICHS A see foot layer of 2" stone may be placed on the spotroom alde of the riprep in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR 87-9

 1. Area under embankment shall be cleared, grubbed and stripped of any regutation and root mat. The pool area shall be cleared.
- The fill meterial for the embediagest shell be free of roots and other woody vegetation as well as ever-sland stones, rocks, organic meterial or other objectionable meterial. The submitment shell be compected by traversing with equipment while it is being constructed.
- 4. The stone used in the outlet shall be small riprop 4"-8" along with a 1" thickness of 1" eggregate placed on the up-grade side on the small riprop of embedded filter cioth in the riprop.
- 5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accomplated to by the design depth of the trap.
- 6. The structure shall be inspected after each rein and repairs made as needed. 7. Construction operations shall be exerted out in such a menner than erosion and vater poliution is minimized.
- 6. The structure shall be removed and the erre stabilized then the drainings aree has been

NOT TO SCALE

STORE OUTLET SEDMENT TRAP

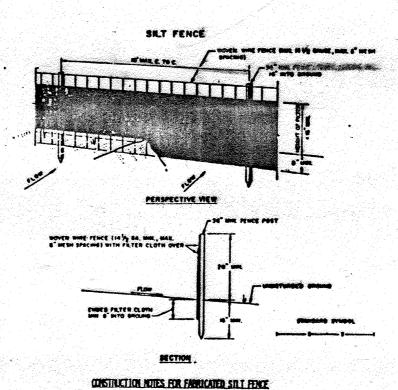
THE PACALVALUE it'cumurktpike Yi later o' filler Cloili over PERSPECTIVE VIEW CUAIN LINK FOICING -GOUX MARAPI RAILIZOND LAI FILITECLOTH IN BOTTOM OF 21 MIN. SPECTION VIEW FENCING SINGL BE 16" HIMS FIRST LINE FLUCT CONSTRUCTED IN ACCOMMENT STIN THE LATES MASTLAND STATE HIGHMAY ANNIHAS STATEMEN FOR A \$ -0". FENCE SMALL SELECTION SELECTION SALES AND STATEMENT FOR A \$ -0". LINE POSTS. POSTS BHALL BE PLATED STITUTED SO STATEMENT SALES SALES FOR STEEL SE PLATED STITUTED SO STATEMENT CONTROLS SALES MANAGEMENT. CHAIR LINE FENCE IS SE FASTENCE SECURELY TO F. FILLER CLOIM TO BE FASTENCE SECURICY TO CHAIN LINE FEMLE BISH TIES SPACED EVERS SE! AT IOP AND UTS SECTION.

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SUPER SILT FENCE

TO SCALE



- 7. FILTER CLOTH TO BE PASTENED SECURELY TO NOVEN WISE PENCE HITH TIES SPACED EVERY 24" AT TOP MO MID SECTION.
- 3. Her no sections of filter cloth Accoin each other they shall be over-

SLT FENCE NOT TO SCALE

PENCE: Movem were, 144 Ga.

PERMIT INFORMATION CHART SUBDIVISION NAME WORTHINGTON RESERVES SECTION 2 LOTS 62-71,73-92 , \$ 113-118 SECTION PARCEL # LIBER & FOLIO PREVIOUS FILE: 3288/239 S-89-50,P-93-09 2549/323 F-94-102,WP-94-01 PLAT No. BLOCK No ZONE ELEC. DIST. TAX MAP CENSUS 11397 TO 11403 R-20 6027 WATER CODE SEWER COD 1257013

EARTH DIKE POSITIVE DRAMAGE -GRADE SUFFICENT TO DRAIN CONSTRUCTION SPECIFICATIONS AL DIMES SHALL BE COMPACTED BY EARTH-MOVING ENJINED.

ALL DIMES SHALL HAVE MOSITIVE DRAININGE TO AN OUTLET.

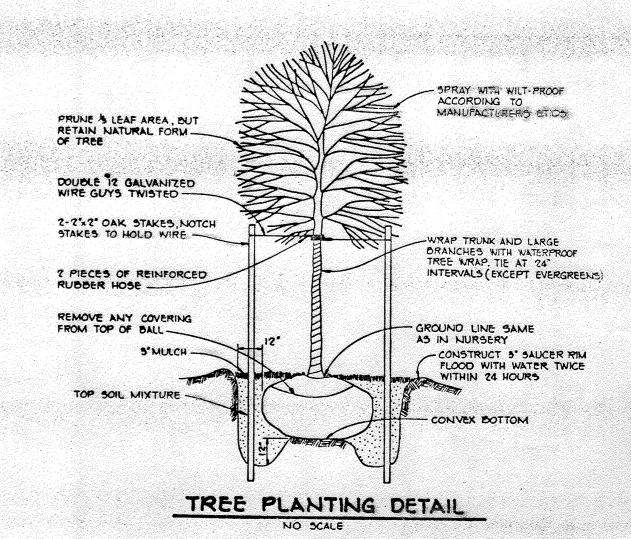
IOP MIDTH HAV BE MIDER AND SIDE SLOPES MAY BE PLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.

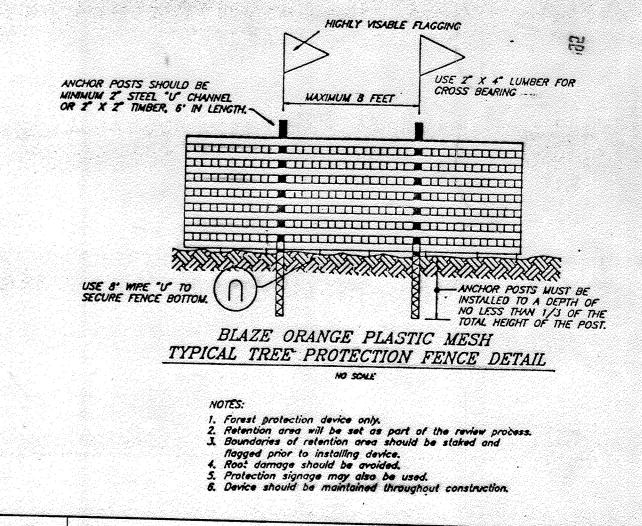
LIELD LOCATION BROLD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. CARTH DIMES SHALL HAVE AN OUTLET THAT FUNCTIONS HITH A MINIMAL OF EROSION. PLANFF SHALL BE CONNEVED TO A SEDIPENT TRAFFING DEVICE SUCH AS A SEDIMENT THAP OR SEDIMENT BASIN HAVE EITHER THE DIRE CHAMPES OF THE DRAININGE AREA ABOVE THE DIRE AND NOT ADEQUARTELY STABILIZED.

STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAM MELON OR STRAM MULCH IF NOT IN SEEDING SEASON, (B) FLON CHAMPEL AS PER THE CHART BELOW. BLOK OWNEL STABILIZATION CHANGE DIVE A .5-3.00 SEED AND STRAW PLACE SEED AND STRAN PLACH 3,1-5.08 SEED AND STRAN PLAN SEED USING JUTE, ON EXCELSION, SOD, 2" STOP 5.1-8.00 Seep with Jute, on Soo; Lineo Riv-Ray 4-8" 8.1-20E Lines Riv-Ru 4-8" ENGINEERING DESIGN A. Stoke to be 2 inch stoke, or recycled concrete equivalent, in a layer at least 3 inches in thickness his de pressed into the soil with construction equipment, B. Rip-Rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into DE SOIL.

C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE NATERIALS.

7. PERIODIC INSPECTION AND REQUIRED HAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT





TSA GROUP. INC. planning . architecture . engineering 5480 Baltimore National Pike . Ellicott City, Maryland 21043 . (410) 465-6107 OWNER/DEVELOPER WORTHINGTON RESERVES SDC GROUP P.O. BOX 417 SECTION 2 ELLICOTT CITY, MARYLAND 21041 LOTS 62-71,73-92, \$ 113-118 (410) 465-4244 LOCATION: TAX MAP 31 - PART OF PARCEL 3 2nd ELECTION DISTRICT

REVISION

SUBMISSION TO COUNTY FOR REVIEW AND APPROVAL

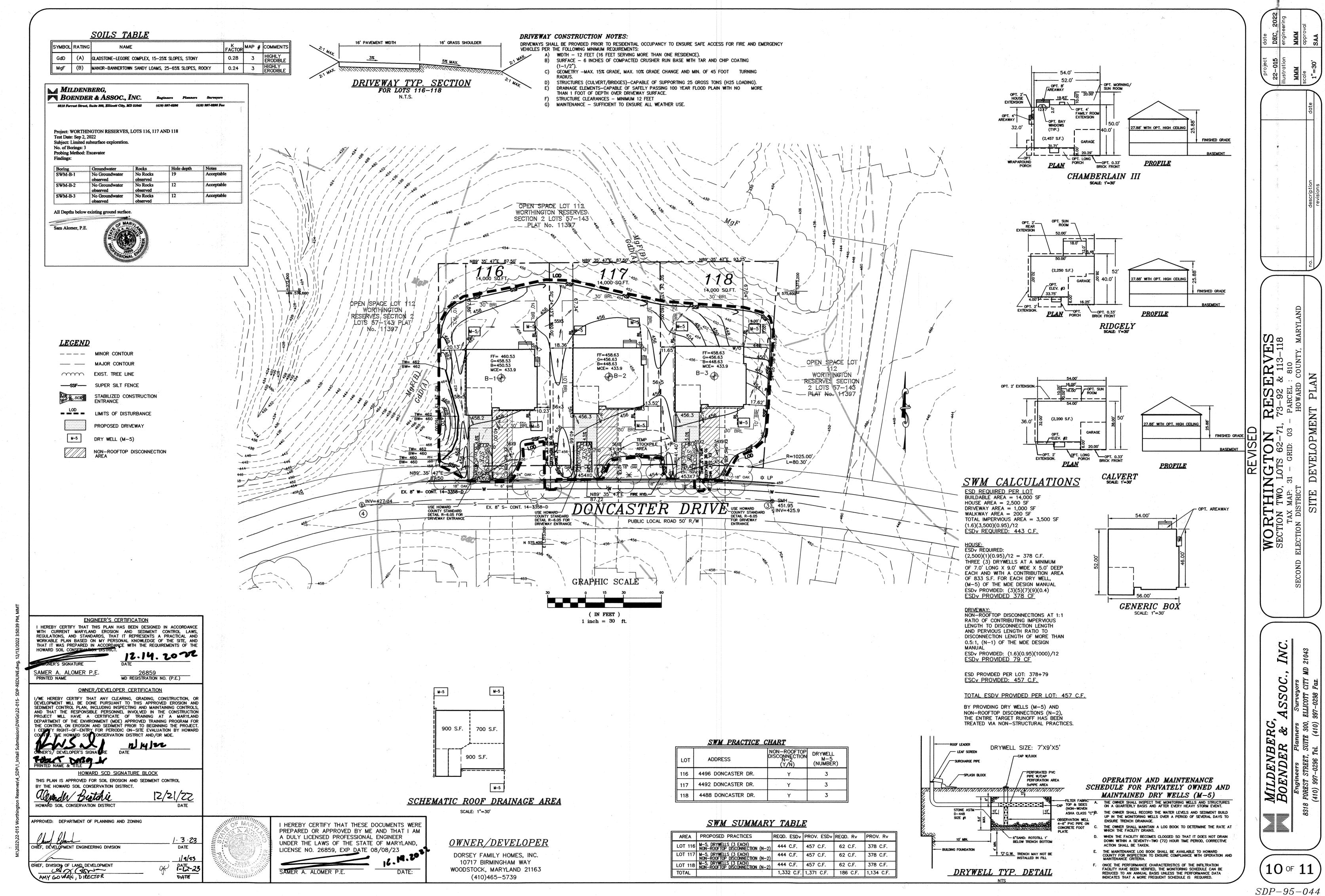
0 | 11/94 NO DATE

> HOWARD COUNTY, MARYLAND EROSION & SEDIMENT CONTROL NOTES & DETAILS PROJECT NO. 0726

SCALE:

AS SHOWN NOV., 1994

DES: YSL/CAM DRN: SCALE: - DRAWNG 9 OF IL @ \D726\Z26SFD4DW3



- 1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 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 DISTURBANCE.
- UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER
- 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

- 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
- 3. 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, DITCHÉS, 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 STANDARD 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). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE 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
- 6. SITE ANALYSIS FOR LOTS 116-118: TOTAL AREA OF SITE: __0.96_____ACRES __0.83_____ACRES AREA DISTURBED: ____ACRES AREA TO BE ROOFED OR PAVED: ___0.24_____ACRES AREA TO BE VEGETATIVE STABILIZED: ___0.59_____ACRES ____CU. YDS. TOTAL FILL __1,100_____CU. YDS. OFFSITE 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
- 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
 - -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) -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
 - -MONITORING/SAMPLING -MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED

USE IV MARCH 1 - MAY 31

- -OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
- 9. 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 THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
- DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.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 CID. 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
- 14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR. AND BE IMBERICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN
- 15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE): USE I AND IP MARCH 1 - JUNE 15 USE III AND IIIP OCTOBER 1 - APRIL 30
- 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.

ENGINEER'S CERTIFICATION I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS REGULATIONS. AND STANDARDS. THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE. AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. SAMER A. ALOMER P.E. 26859 MD REGISTRATION NO. (P.E.) PRINTED NAME OWNER/DEVELOPER CERTIFICATION /WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, C DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AN SEDIMENT CONTROL PLAN. INCLUDING INSPECTING AND MAINTAINING CONTROL AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTIO PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND

DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD THE HOWARD SQIL CONSERVATION DISTRICT AND/OR MDE.

HOWARD SCD SIGNATURE BLOCK

HIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENT

amy gowan, director

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING 1.3.23

DATE

19/23

00 1-62-23

HARDINESS ZONE (FROM FIGURE B.3): 6b

(B-4-2) STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. CONDITIONS WHERE PRACTICE APPLIES WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

A. SOIL PREPARATION

- 1. TEMPORARY STABILIZATION 2. 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 LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
- INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER

2. PERMANENT STABILIZATION

- a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: 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.

 APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE
- 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. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF
- 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 FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.
- 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
- 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
- TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE
- 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.
- THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH 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. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
- TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND OTHER SOILS MAY 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 1½ INCHES IN DIAMETER.
- TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. 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
- EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL 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. 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 PROPE
- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
- SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER 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 ANALYSES.
- 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.
- 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. 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

(B-4-8) STANDARDS AND SPECIFICATION FOR STOCKPILE AREA

A 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.

PERMANENT SEEDING SUMMARY

- 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON HE EROSION AND SEDIMENT CONTROL PLAN. 2. THE FOOTPRINT OF STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH
- 3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
- 4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. 5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVISE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING
- 6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE
- STOCKPILE MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS

FERTILIZER RATE

- STANDARD B-4-I 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 COVERED WITH IMPERMEABLE
- 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 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 LAND GRADING.

(B-4-3) STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

DEFINITION THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION CONDITIONS WHERE PRACTICE APPLIES

TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING. **CRITERIA** A. SEEDING

- 1. SPECIFICATIONS
- a. ALL SEED MUST MEET THE REQUIREMENTS 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 QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.
- b. 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 KEEP INOCULANT AS COOL 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 WEED CONTROL 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.

 I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE—SPECIFIC SEEDING SUMMARIES.

 II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL
- b. Drill or cultipacker seeding: Mechanized seeders that apply and cover seed with soil.

 I. 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. II. 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, O5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (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 TON'S ARE APPLIED BY HYDROSEEDING AT ANY ONE
- TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION. IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

- 1. MULCH MATERIALS (IN ORDER OF PREFERENCE) a. 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.
- b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE. I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS
- III. 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 ARSORPTION 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 V. 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.
- a. 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 AT 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.
- 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. III. 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

II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DR'

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 TO 15 FEET WIDE AND 300 TO 3.000

(B-4-4) STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION TO STABILIZE DISTURBED SOIL WITH VEGETATION FOR UP TO 6 MONTHS.

<u>PURPOSE</u> TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURB SOIL. 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 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 FORTELIZER AND LIME RATES MUST BE PUT ON THE 3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1b, AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.
- SEQUENCE OF CONSTRUCTION 1. OBTAIN GRADING PERMIT (1 DAY).
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION INDICATED (1 DAY).
- 3. CONSTRUCT PERIMETER CONTROLS: SUPER SILT FENCES (SSF) AND SILT FENCE (SF) (1 DAY).
- 4. GRADE SITE PER PLAN (5 DAYS).
- 5. CONSTRUCT RETAINING WALL (5 DAYS).
- 6. CONSTRUCT WATER AND SEWER HOUSE CONNECTIONS (5 DAYS).
- CONSTRUCT HOUSE (90-180 DAYS). 8. CONSTRUCT DRIVEWAY (5 DAYS).
- 9. STABILIZE ALL DISTURBED AREAS (1 DAY).
- 10. CONSTRUCT DRYWELL FACILITIES (3 DAYS).
- 11. SEED AND MULCH ALL REMAINING DISTURBED AREAS (1 DAY).
- 12. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED, AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS (1 DAY).

		HARDINESS ZONE (FROM FIGURE B.3): 66 SEED MIXTURE (FROM TABLE B.3): 8					ERTILIZER RATE (10-20-20)	5	TEMPORARY SEEDING FOR SITE STABILIZATI					TABILIZATION				
1			APPLICATION		SEEDING			K ₂ O	LIME RATE		RAIL		SEEDING DEPTH	RECOMMENDED SEEDING DATED BY PLANT HARDINESS ZONE				
NO.	NO.		RATE (LB/AC)		DEPTHS	N	P ₂ O ₅			PLANT SPECIES	LB/AC	LB/ 1000SF	(INCHES)	5B AND 6A	6B	7A AND 7B		
		T							2 TONS / ACRE (90 LBS / 1000									
		TALL FESCUE	100	AUG 15-OCT 15	1/4 -1/2		(2 LB./1000 SF)			ANNUAL RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM)	40	1.0	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30		
برنين	CONTROL	MAY BE USE		TABLE B.3 OF THE	2011 MARYL/	AND STANDARD AI	ND SPECIFICATIONS	S FOR SOIL EROSI	ON AND SEDIMENT	BARLEY (HORDEUM VULGARE)	96	2.2	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30		
	11111111	MAS!//		EREBY CERTIFY						OATS (AVENA SATIVA)	72	1.7	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30		
111111	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,							WHEAT (TRITICUM AESTIVUM)	120	2.8	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30				
			₫ LICE	DER THE LAWS ENSE NO. 2685		ATE 08/08/	22			CEREAL RYE (SECALE ITALICA)	112	2.8	0.5	MAR 15 TO MAY 31; AUG 1 TO OCT 31	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO DEC 15		
-	18.14.2°3									WARM SEASON GRASSES								
		0059. (A)	SAMER A. ALOMER P.E. DATE:				FOXTAIL MILLET (SETARIA ITALICA)	30	0.7	0.5	JUN 1 TO JUL 31	MAY 16 TO JUL 31	MAY 1 TO AUG 14					
	111.91		SAN	MER A. ALOMER	Υ Γ. . .		DATE:			PEARL MILLET (PENNISETUM GLAUCUM)	20	0.5	0.5	JUN 1 TO JUL 31	MAY 16 TO JUL 31	MAY 1 TO AUG 14		

(B-4-5) STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

TO STABILIZE DISTURBED SOIL WITH PERMANENT VEGETATION.

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER OF DISTURBED CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE

A. SEED MIXTURES

1. GENERAL US

A. SELECT ONE OR MORE OF THE SPIECES OF MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED IN THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DINES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD GUIDE, SECTION 342-CRITICAL AREA PLANTING. FOR SITES HAVING DISTURBAD AREA OVER 5 ACRES, USE AND SHOW RATES RECOMMENDED BY THE

D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FROM FERTILIZED (40-0-01) AT 3 1/2 POUNDS PER 1000 S.F. (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY. 2. TURFGRASS MIXTURES

- AREAS WHERE TURFGRASS MAY BE DESIRE 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 OF MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY
- KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASRERN SHORE RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS SEEDING RETA: 1.5 TO 2.0 POUNDS PER 1000 S.F. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO
- 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. KENTUCKY BLUEGRASS/PERENIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT'IS NECESSARY ABD WHEN TURF WILL RECEIVE MEDIUM TO INTENSUVE MANAGEMENT. CERTIFIED PERENIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDINGRATE: 2 POUNDS MIXTURE PER 1000 S.F. SHOOSE A MINIMUM OF THREE KENTUCKYBLUEGRASS CULTIVARS EITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL
- MIXTURE BY WEIGHT TALL FESCUE/KENTUCKY BLUEGRASS: FULL MIXTURE: FOR USE IN DROUGHT AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEENT IN FULL SUN TO MEDIUM SHADE, RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 65 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 PERCENT PER 1000 S.F. 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 TIRF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCANT AND
- CERTIFIES FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATES 1 1/2 TO 3 POUNDS PER 1000 S.F.
 C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURE 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
- (HARDINESS ZONE: 7A, 7B) D. TILL AREAS 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 STONE AND DEBRI OVER 1.5 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASS WILL POSE NO DIFFICULTY.

 E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH
- 0.5 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 SEASON, OR ON ADVERSE SITES. 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. <u>EROSION AND SEDIMENT CONTROL NOTES</u>
- 1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS. 2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF
- 3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH. 4. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE
- 5. IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN 7. ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR

REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

- OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6) A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND
- STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2. B. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL,
- TREAT DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS
- D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT. B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- C. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY D. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA F. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED. THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

E. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO

OWNER/DEVELOPER

DORSEY FAMILY HOMES, INC. 10717 BIRMINGHAM WAY WOODSTOCK, MARYLAND 21163 (410)465-5739

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