

**SITE DATA**  
 LOCATION: TAX MAP 41, GRID 6, PARCEL 220  
 DEED REFERENCE: L-3563 F.341  
 5TH ELECTION DISTRICT  
 EXISTING ZONING: R-20  
 PER THE COMPREHENSIVE ZONING PLAN DATED 2/02/04.  
 GROSS AREA OF PARCEL: 1.0031 AC.  
 AREA OF RIGHT OF WAY: 0.0000 AC.  
 AREA OF FLOODPLAIN: N/A  
 AREA OF STEEP SLOPES: N/A  
 NET AREA OF PROJECT: 1.0031 AC  
 NUMBER OF RESIDENTIAL LOTS PROPOSED: 2 LOTS  
 AREA OF PROPOSED RESIDENTIAL LOTS: 43,692 SF (1.00 AC)  
 AREA OF SMALLEST BUILDABLE LOT PROPOSED: 21,845 SF  
 NUMBER OF PROPOSED OPEN SPACE LOTS: 0  
 NUMBER OF NON-BUILDABLE BULK PARCELS: 0

**GRADING DATA**  
 TOTAL DISTURBED AREA = 0.57 AC  
 IMPERVIOUS COVER = 0.17 AC  
 AREA TO BE STABILIZED = 0.40 AC

# SUPPLEMENTAL STORM WATER MANAGEMENT, FOREST CONSERVATION & LANDSCAPE PLAN

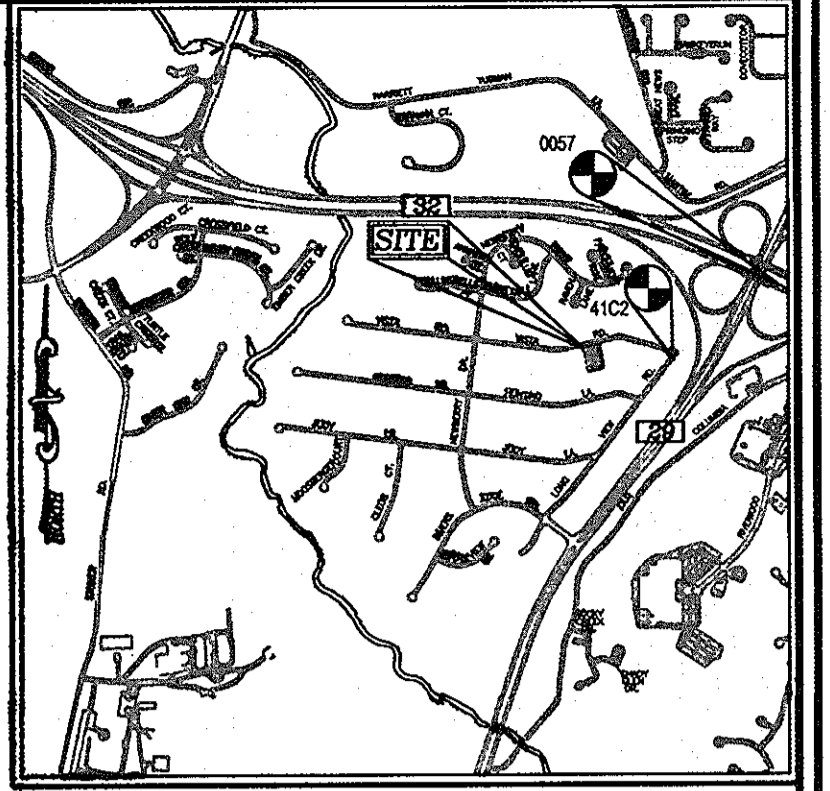
## F-13-082

# HOLIDAY HILLS LOTS 115 & 116

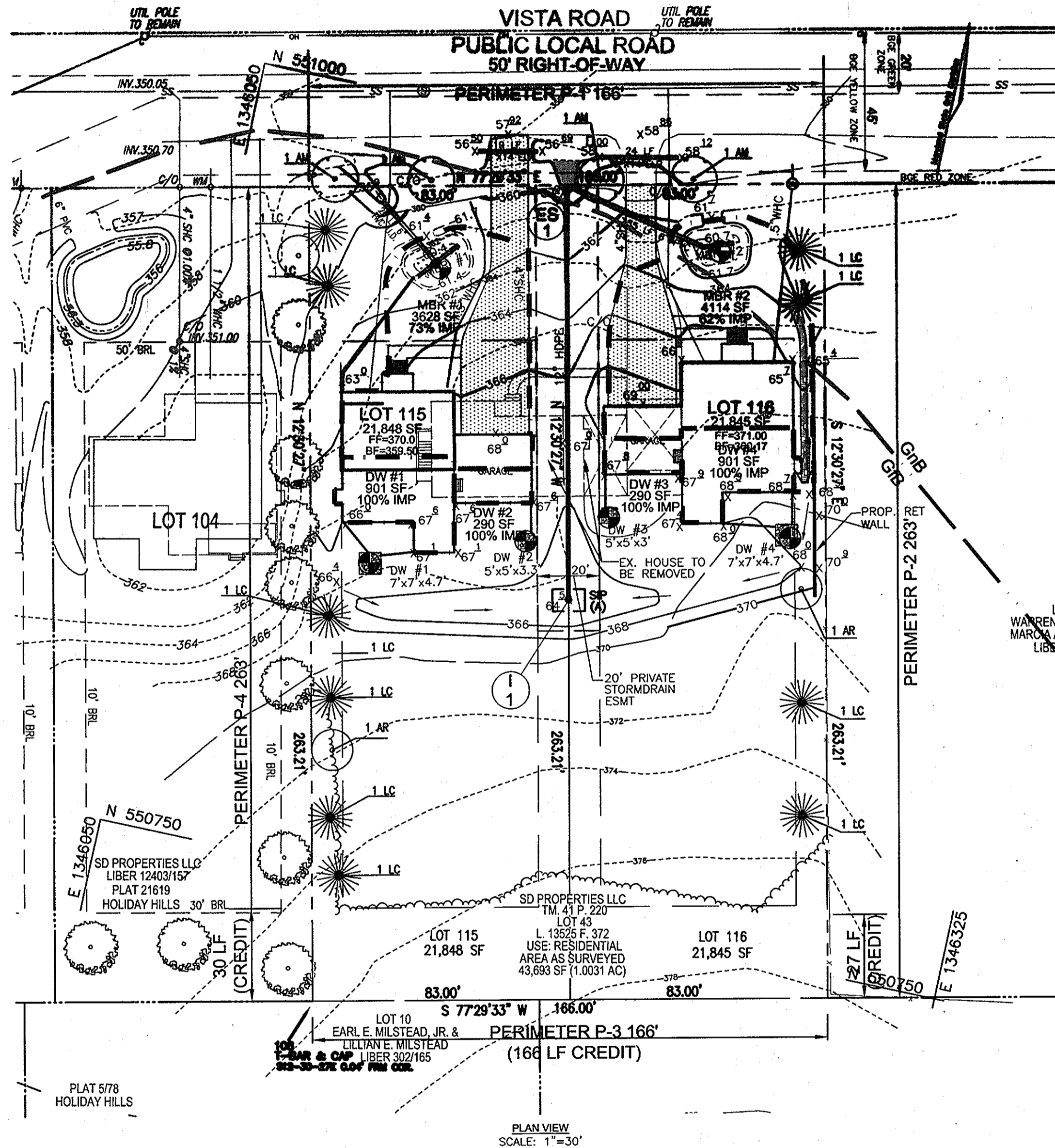
A RESUBDIVISION LOT 43 SECOND ADDITION TO  
 HOLIDAY HILLS SUBDIVISION PLAT BOOK 7, FOLIO 41

**LEGEND**  
 - - - - - LIMIT OF DISTURBANCE  
 [Hatched Box] EX. DRIVEWAY TO BE REMOVED  
 [Hatched Box] PROPOSED MICRO BIORETENTION FACILITY  
 [Hatched Box] PROPOSED EROSION CONTROL MATTING

**BENCHMARKS**  
 HOWARD COUNTY BENCHMARK 41C2  
 N 551,616.4187 E 1,348,104.2341  
 HOWARD COUNTY BENCHMARK 0057  
 N 550,835.2139 E 1,347,017.6897



- GENERAL NOTES**
- THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC. IN FEBRUARY 2010.
  - THE TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD RUN TOPOGRAPHY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC. IN FEBRUARY 2010.
  - PUBLIC WATER AVAILABLE THROUGH CONTRACT 34-1810-D AND PUBLIC SEWER AVAILABLE THROUGH CONTRACT 30-3123-D. WATER AND SEWER SERVICE WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.122B OF THE HOWARD COUNTY CODE.
  - THIS PROJECT IS EXEMPT FROM COP STORM WATER MANAGEMENT SINCE THE SITE P<sub>e</sub> IS LESS THAN 1".
  - THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
  - NO STREAMS EXIST ON SITE.
  - NO 100-YEAR FLOODPLAIN EXIST ON SITE.
  - SUBJECT PROPERTY ZONED R-20 PER 2/02/04 COMPREHENSIVE ZONING ZONING PLAN, AND AMENDED BY THE COMPREHENSIVE LITE AMENDMENT DATED 02/07/04.
  - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED PERIMETER LANDSCAPE TREES AND STREET TREES (\$6,010.00) WILL BE POSTED AS PART OF THE BUILDERS GRADING PERMIT UNDER THE SITE DEVELOPMENT PLAN.
  - THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-REGULATIONS DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
  - "DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
    - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
    - SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CLIP COATING.
    - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% CHANGE AND MINIMUM OF 45-FOOT DEPTH TURNING RADIUS.
    - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
    - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
    - STRUCTURE CLEARANCES - MINIMUM 12 FEET.
    - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
  - THE EXISTING DWELLING/STRUCTURE LOCATED ON THIS SITE ARE TO BE REMOVED PRIOR TO RECORDATION OF THIS PLAT.
  - THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT, TO FULFILL THE 0.20 ACRES OF AFFORESTATION REQUIREMENT, THE DEVELOPER WILL PAY A FEE-IN-LIEU IN THE AMOUNT OF \$6,534.00 PRIOR TO PLAT RECORDATION.
  - STORM WATER MANAGEMENT ADDRESSED FOR SITE USING 2007 MARYLAND STORMWATER DESIGN MANUAL (CHAPTER 5).
    - CHANNEL PROTECTION VOLUME (CPV) IS NOT REQUIRED (P<sub>e</sub> FOR ENTIRE SITE IS UNDER 1.0")
    - WATER QUALITY VOLUME (WQV) AND RECHARGE VOLUME (REV) TO BE PROVIDED BY (M-6) MICRO BIORETENTION FACILITIES, (M-5) DRYWELLS AND OPEN CHANNEL FLOW (WHEN IMPERVIOUS AREAS CAN NOT BE DIRECTED TO ONE OF THE MICRO BIORETENTION FACILITIES) AND (N-2) DISCONNECT OF NON-ROOFTOP RUNOFF
  - SITE DEVELOPMENT PLAN APPROVAL BY THE DEPARTMENT OF PLANNING AND ZONING IS REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED FOR THE CONSTRUCTION OF RESIDENTIAL DWELLINGS ON THESE LOTS.
  - THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS; THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES.
  - NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN, HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
  - SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT SPREAD AND CROWN CANOPY. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.
  - AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HERewith LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTING MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
  - REFERENCE WAIVER PETITION WP-13-187 APPROVED 07/19/2013
    - SECTION 16.134(b)(2) TO ALLOW A FEE-IN-LIEU OF SIDEWALK CONSTRUCTION (\$2368.00)
    - SECTION 16.132(a)(2)(i)(a) TO ALLOW A FEE-IN-LIEU OF ROAD CONSTRUCTION (\$2324.00)
    - SECTION 16.135(a) TO NOT PROVIDE STREET LIGHTING
  - A FOREST STAND DELINEATION WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC., DATED AUGUST 28, 2012 FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL SHALL BE COMPLIED WITH. NO FORESTED AREAS, WETLANDS, STREAMS OR THEIR ASSOCIATED BUFFERS ARE PRESENT ON THIS SITE.



**COORDINATE TABLE**

NUMBER	NORTHING	EASTING
102	550963.9756	1346072.3252
201	550707.0123	1346129.3282
204	550999.9260	1346234.3856
205	550742.9626	1346291.3886

**STREET TREE CALCULATION**

ROAD NAME	LINEAR FEET	NO. REQUIRED	NO. PROVIDED
VISTA ROAD	166/40	4	4

**STREET TREE SCHEDULE**

KEY	QUAN.	BOTANICAL NAME	SIZE	REM.
AM	4	AMUR MAPLE ACER GINNALA	(SHADE TREES - GROWTH HEIGHT=20') 2 1/2"-3" CAL.	B & B

**FOREST STAND ANALYSIS TABLE**

KEY	A. TYPE OF COMMUNITY	B. AREA	C. SOILS INFORMATION	D. EXISTING VEGETATION	E. STAND CHARACTERISTICS	F. FOREST AREA IN ACRES
L-1	WOODLAND	1.00 AC	MOIST UPLAND HICKORY, MAINLY OAKS	12	12-27' 30% FAIR	0.00 AC

**FOREST STAND TOTALS**

STAND L-1	1.00 ACRES
TOTAL	1.00 ACRES (ENTIRE SITE)

**SOILS LEGEND**

SYMBOL	NAME/DESCRIPTION	TYPE
GnB	GLENVILLE-BAILE SILT LOAM 0 TO 8 PERCENT SLOPES	C
GfB	GLADSTONE-URBAN LAND COMPLEX 0 TO 8 PERCENT SLOPES	B

**SCHEDULE 'A'- PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	TOTAL		
PERIMETER NUMBER	P-1	P-2	P-3	P-4	
LANDSCAPE TYPE	N/A	A	A	A	A
LF OF ROADWAY FRONTAGE / PERIMETER	166 LF	263 LF	166 LF	263 LF	263 LF
NUMBER OF PLANTS REQUIRED					
SHADE TREES	N/A	4	3	4	11
EVERGREEN TREES					
CREDIT FOR EXISTING VEGETATION (YES/NO)	N/A	YES (28 LF)	YES (166 LF)	YES (30 LF)	
SHADE TREES		2	6		8
ORNAMENTAL (2:1 SUB FOR SHADE)					
EVERGREEN TREES				3	3
NUMBER OF PLANTS PROVIDED	N/A	1		1	2
SHADE TREES					
ORNAMENTAL (2:1 SUB FOR SHADE)					
EVERGREEN TREES (2:1 SUB FOR SHADE)		4*	0**	6***	10

\*P-2 - SUBSTITUTION: 2 EVERGREEN FOR 1 SHADE TREE  
 \*\*P-3 - 166 LF REQUIRED - 166 LF CREDIT = 0 TREES PROVIDED  
 \*\*\*P-4 - SUBSTITUTION: 2 EVERGREEN FOR 1 SHADE TREE

**PLANT LIST**

QUAN.	BOTANICAL NAME	SIZE	REM.
2	ACER RUBRUM 'AUTUMN FLAME' AUTUMN FLAME RED MAPLE	2 1/2"-3" CAL.	B & B
10	LEYLAND CYPRESS CUPPRESSOCYPARIS LEYLANDI	5'-6' HT	B & B

**FOREST CONSERVATION WORKSHEET**  
 Version 1.0

Project: 10605 Vista Road  
 Date: August 28, 2012

NET TRACT AREA	Acres
A. Total tract area	1.0
B. Area within 100 Year Floodplain	0
C. Area of site included in overhead transmission line	0
D. Net Tract Area	1.0

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)  
 ARA MDR IDA HDR MFD CIA

E. Afforestation Threshold (percentage)	0.15	0.2
F. Conservation Threshold (percentage)	0.20	0.2

EXISTING FOREST COVER:

G. Existing forest cover (excluding floodplain)	0
H. Area of forest above afforestation threshold	0
I. Area of forest above conservation threshold	0

BREAK EVEN POINT:

J. Forest retention above threshold with no mitigation	-
K. Clearing permitted without mitigation	Break-Even Point

PROPOSED FOREST CLEARING

L. Total area of forest to be Cleared or Retained Outside FCE	0.0
M. Total area of forest to be Retained in FCE	0.0

PLANTING REQUIREMENTS

N. Reforestation for clearing above Conservation Threshold	0
P. Reforestation for clearing below Conservation Threshold	0
Q. Credit for retention above conservation threshold	0
R. Total reforestation required	0
S. Total afforestation required	0.2
T. Total reforestation and afforestation required	0.2

**OWNERS**  
 SD PROPERTIES  
 3138 ROGERS AVENUE  
 ELLICOTT CITY, MARYLAND 21043  
 (410-263-2460)

NO.	REVISION	DATE

**SUPPLEMENTAL STORM WATER MANAGEMENT,  
 FOREST CONSERVATION & LANDSCAPE PLAN**

F-13-082  
**HOLIDAY HILLS  
 LOTS 115 & 116**  
 A RESUBDIVISION OF LOT 43 OF  
 HOLIDAY HILLS, PLAT BOOK 7 FOLIO 41  
 ECP-13-016 PARCEL 220  
 TAX MAP 41, GRID 6 HOWARD COUNTY, MARYLAND  
 5TH ELECTION DISTRICT

**ROBERT H. VOGEL  
 ENGINEERS • SURVEYORS • PLANNERS**  
 8407 MAIN STREET TEL: 410.461.7566  
 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

DESIGN BY: JTD  
 DRAWN BY: JER  
 CHECKED BY: EDS  
 DATE: SEPTEMBER, 2013  
 SCALE: AS SHOWN  
 W.O. NO.: 12-29

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE  
 PREPARED OR APPROVED BY ME, AND THAT I  
 AM A DAILY LICENSED PROFESSIONAL ENGINEER  
 UNDER THE LAWS OF THE STATE OF MARYLAND,  
 LICENSE NO. 16193 EXPIRATION DATE  
 09-27-2014.

1 SHEET OF 3

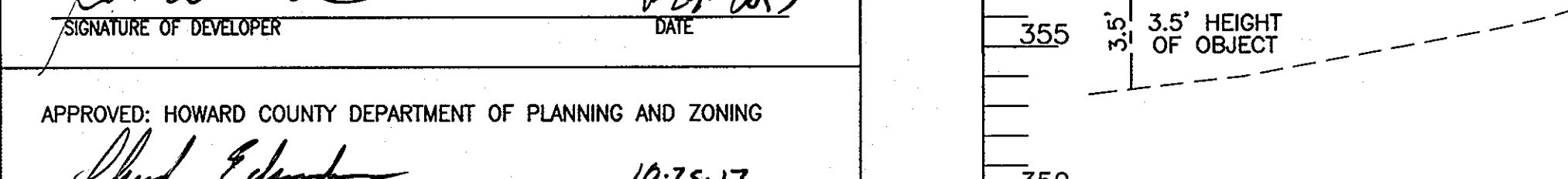
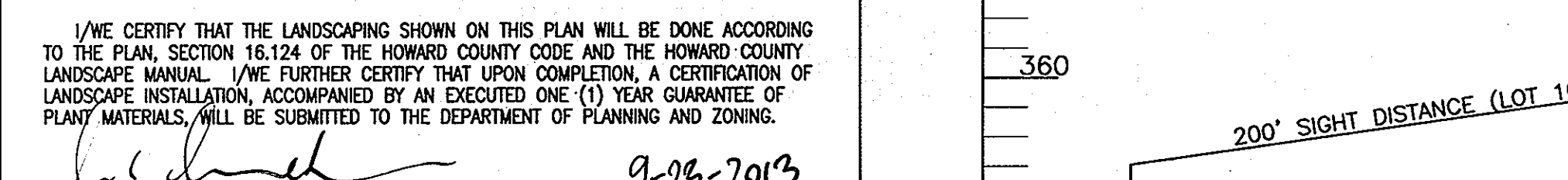
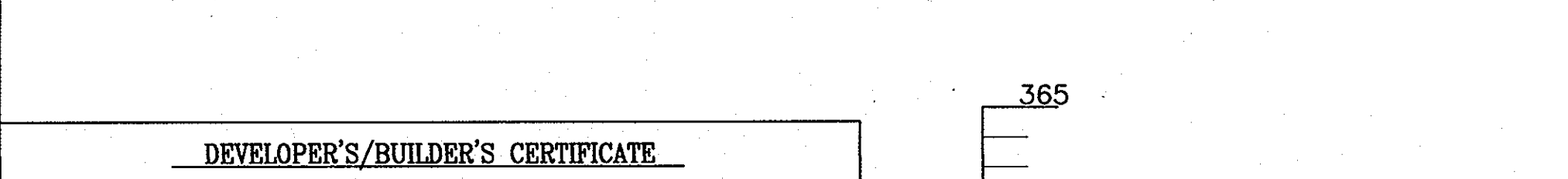
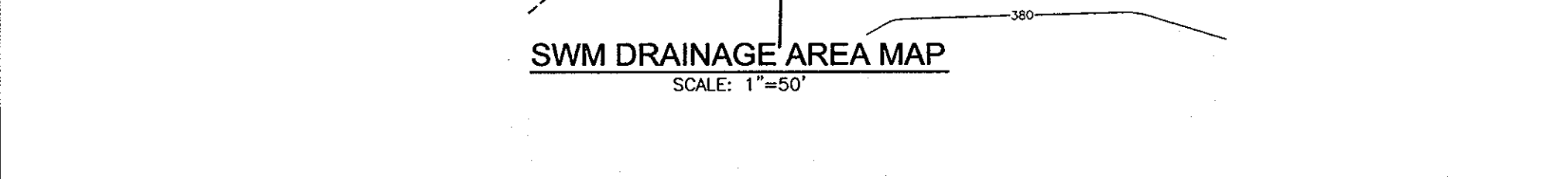
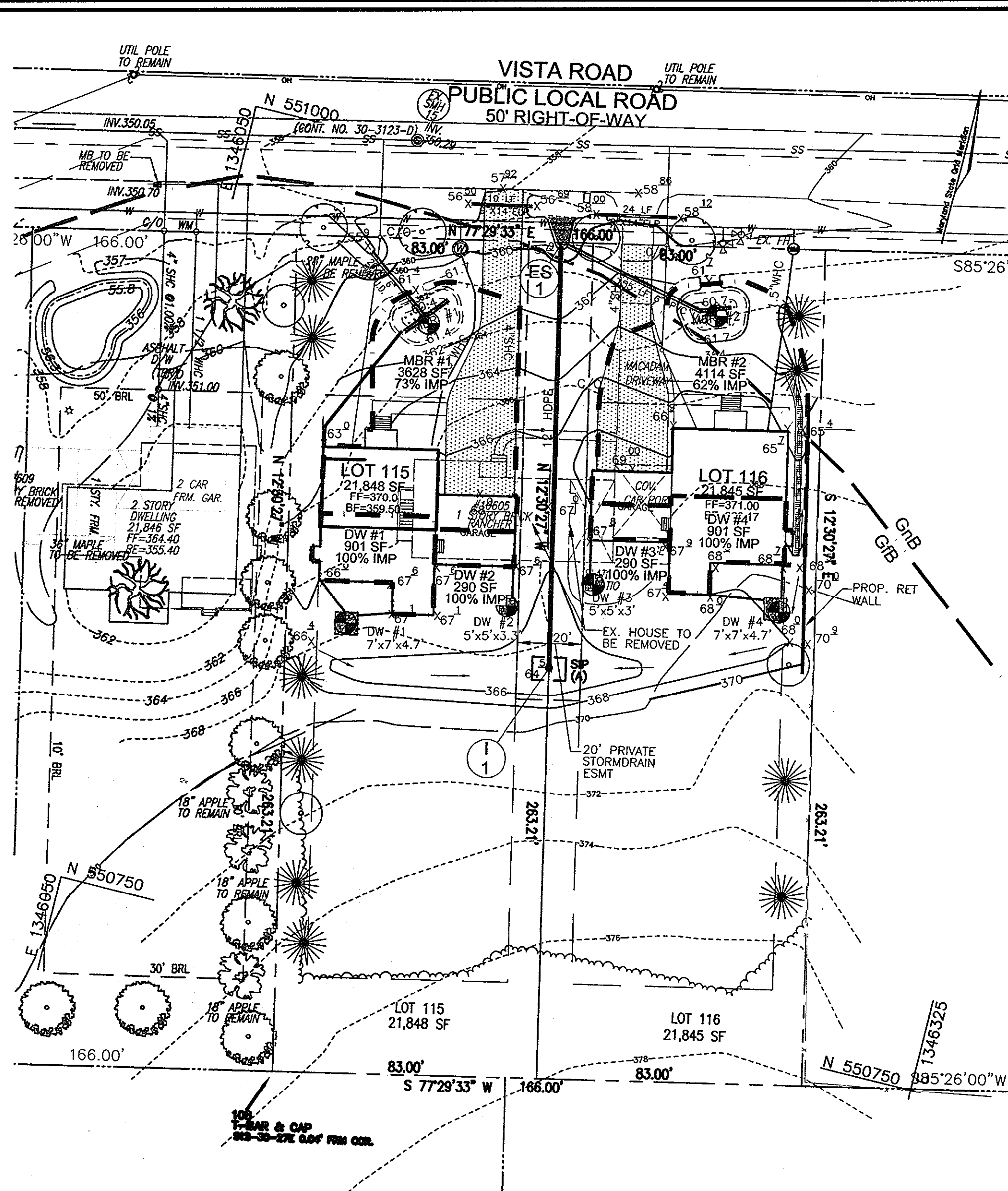
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Chief* 10-25-13  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chief* 1-04-13  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR DATE

*John Canoles*  
 DNR QUALIFIED FOREST PROFESSIONAL  
 JOHN CANOLES

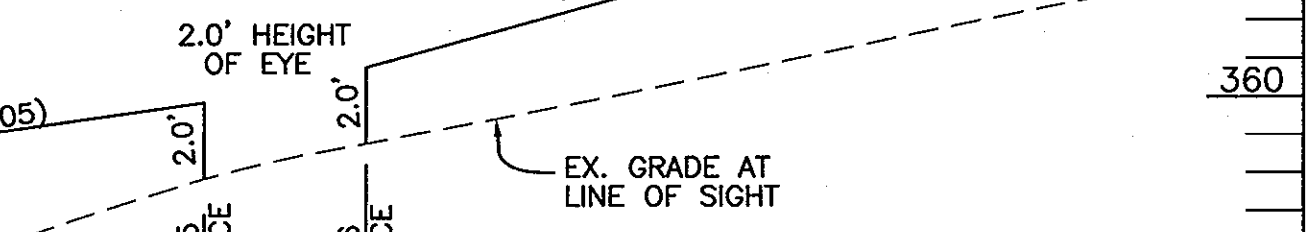
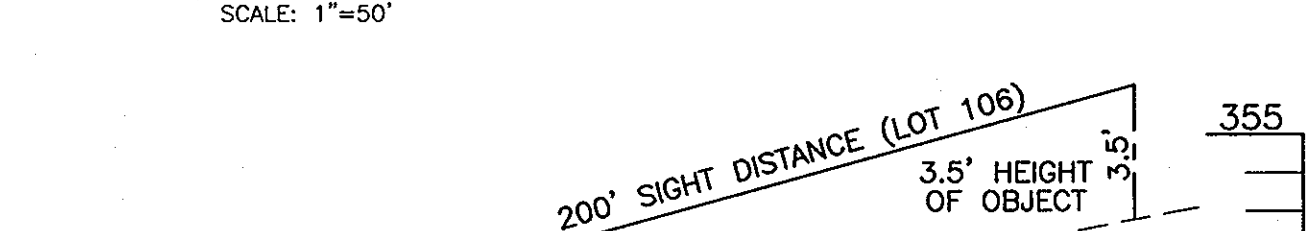
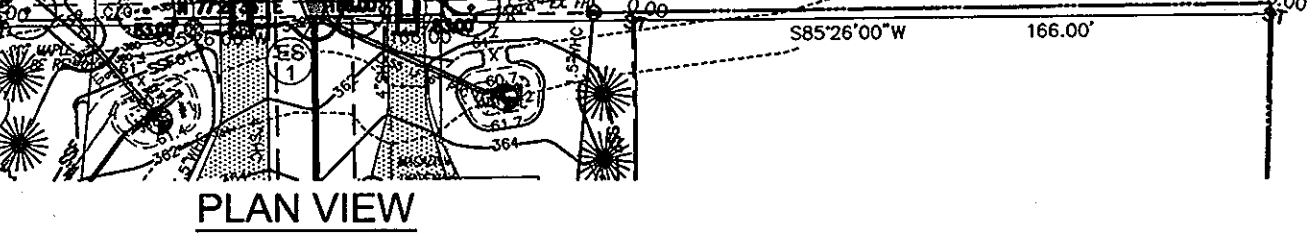
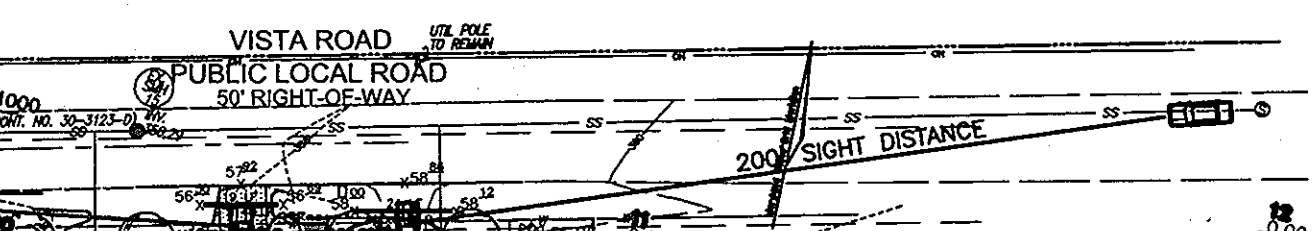
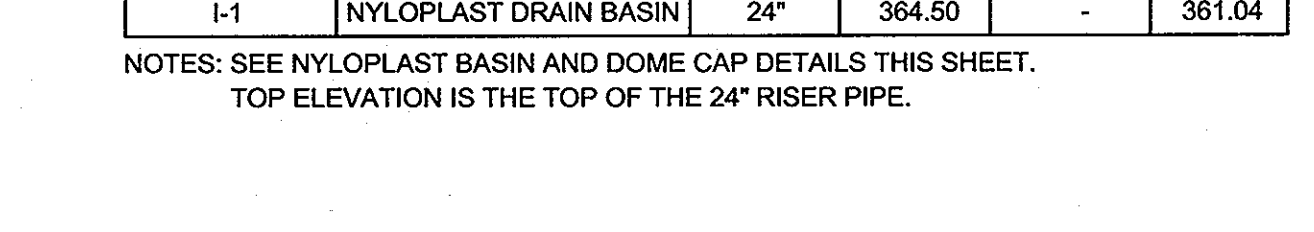
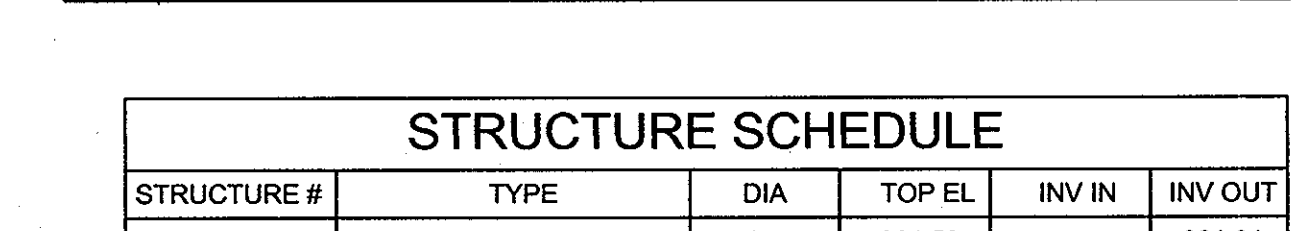
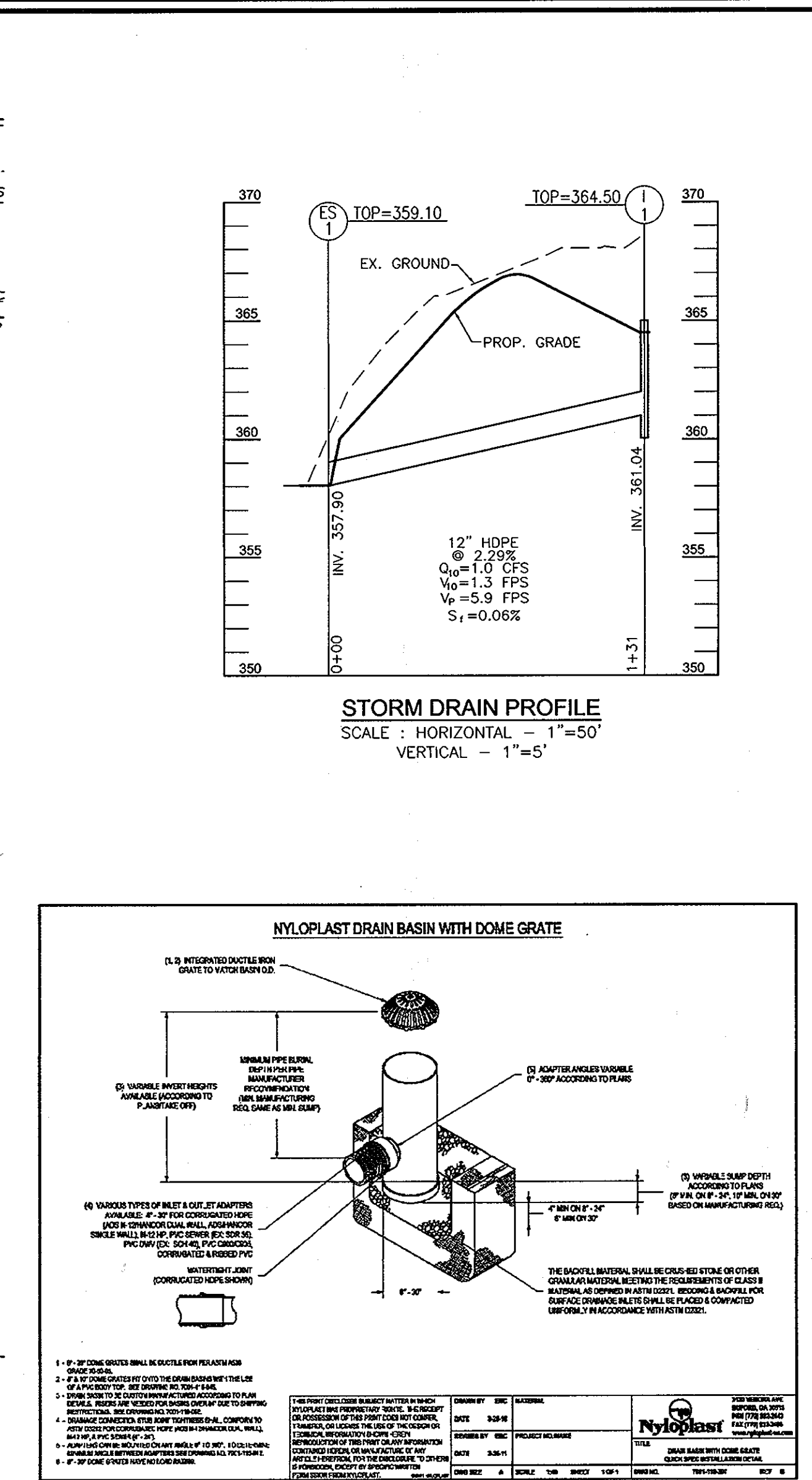


**STORMWATER MANAGEMENT CALCULATIONS**

DRAINAGE AREA	METHOD	VOL. REQ'D	VOL. PROV.	REV. REQ'D	REV. STONE D	REV. PROV.
MBR #1	M-6	157 CF	176 CF	54 CF	16"	55 CF
DW #1	M-5	71 CF	72 CF	18.5 CF	12"	19.1 CF
DW #2	M-5	23 CF	26 CF	6 CF	8"	6.4 CF
MBR #2	M-6	272 CF	294 CF	49.4 CF	6"	57 CF
DW #3	M-5	23 CF	26 CF	6 CF	8"	6.7 CF
DW #4	M-5	71 CF	72 CF	18.7 CF	12"	19.6 CF

**STRUCTURE SCHEDULE**

STRUCTURE #	TYPE	DIA	TOP EL.	INV IN	INV OUT
I-1	NYLOPLAST DRAIN BASIN	24"	364.50	-	361.04

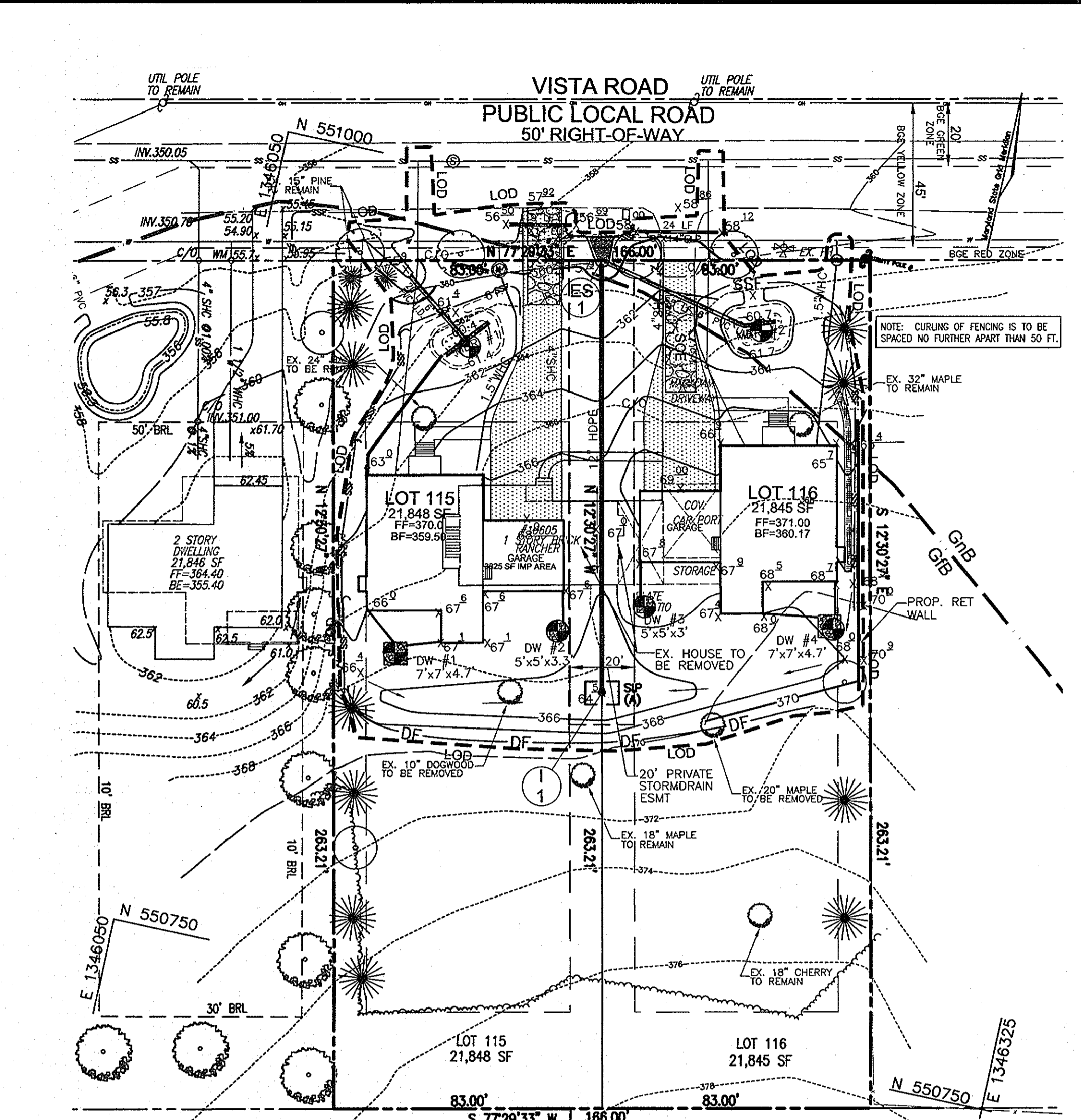


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**STRUCTURE SCHEDULE**

STRUCTURE #	TYPE	DIA	TOP EL.	INV IN	INV OUT
I-1	NYLOPLAST DRAIN BASIN	24"	364.50		



**SEDIMENT CONTROL PLAN**  
SCALE: 1"=30'

**II. STANDARDS AND SPECIFICATIONS**

**FOUR**  
**DIST CONTROL**  
**DEFINITION**

Controlling the dispersion of dust particles from construction activities.

**PURPOSE**

To prevent blowing and movement of dust from exposed soil surfaces to reduce on and off-site damage including health and traffic hazards.

**CONDITIONS WHERE PRACTICE APPLIES**

Areas subject to dust blowing and movement from exposed soil surfaces on off-site damage is likely without treatment.

**Specifications**

- Mulching: See Section B-4.2 Soil Preparation, Topsoiling, and Soil Amendments, Section B-4.3 Seeding, and Section B-4.4 Temporary Stabilization. Mulch must be sown to meet Minimum.
- Vegetation Cover: See Section B-4.4 Temporary Stabilization.
- Tillage: Till to roughen surface and bring seeds to the surface. Begin planting on windward side of site. Child-proof spaced about 12 inches apart, spaced-tolerant barrows, and similar tools are examples of equipment that may produce the desired effect.
- Hydrology: Synthetic site with runoff will be used. Report as needed. The site must not be irrigated to the point that runoff occurs.
- Barriers: Solid board fences, six foot fences, brush fences, straw bales, and similar material can be used to control on-site and soil blowing.
- Chemical Treatment: Use of chemical treatment requires approval by the appropriate plant authority.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 10-28-13

DATE: 11-04-13

DATE: 9-23-2013

**BY THE DEVELOPER:**

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS, 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 HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND POND CONSTRUCTION AND PREVENTIVE EROSION CONTROL MEASURES. I HAVE NOTIFIED THE DEVELOPER THAT AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

DATE: 9-23-2013

**BY THE ENGINEER:**

I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND POND CONSTRUCTION AND PREVENTIVE EROSION CONTROL MEASURES. I HAVE NOTIFIED THE DEVELOPER THAT AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

DATE: 9/23/13

**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.

**PURPOSE**

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

**CONDITIONS WHERE PRACTICE APPLIES**

WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

**CRITERIA**

**A. SOIL PREPARATION**

- TEMPORARY STABILIZATION
- SEEDING PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE MECHANICAL OR CONSTRUCTION EQUIPMENT SUCH AS REWORKING OR GRADING PLOWS OR PLOWING MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE REAR OF THE EQUIPMENT. THE SOIL SHOULD BE SPRAYED WITH WATER TO PREVENT DUSTING. PARALLEL TO THE CONTOUR OF THE SLOPE 3:1 OR FLATTER ARE TO BE TRACKED WITH GRADINGS SMOOTH BUT NOT TO THE DEPTH OF THE SLOPE. THE TRACKS SHOULD BE MADE AT AN ANGLE OF 45 DEGREES TO THE CONTOUR OF THE SLOPE. THE TRACKS SHOULD BE MADE AT AN ANGLE OF 45 DEGREES TO THE CONTOUR OF THE SLOPE. THE TRACKS SHOULD BE MADE AT AN ANGLE OF 45 DEGREES 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 SUITABLE MEANS.

**B. TOPSOILING**

- APPLY TOPSOIL TO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. MAKE LIME AND FERTILIZER APPLICATIONS TO THE TOPSOIL AS PRESCRIBED ON THE PLANS.
- APPLY TOPSOIL TO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. MAKE LIME AND FERTILIZER APPLICATIONS TO THE TOPSOIL AS PRESCRIBED ON THE PLANS.
- APPLY TOPSOIL TO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. MAKE LIME AND FERTILIZER APPLICATIONS TO THE TOPSOIL AS PRESCRIBED ON THE PLANS.

**C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)**

- SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXISTING SOIL CONDITIONS AND TO DETERMINE THE NUTRIENT DEFICIENCIES. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXISTING SOIL CONDITIONS AND TO DETERMINE THE NUTRIENT DEFICIENCIES.
- FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FROM TOXIC AND SUITABLE FOR ADEQUATE APPLICATION BY APPROPRIATE EQUIPMENT. FERTILIZERS MUST BE SUBMITTED FOR ANALYSIS WITH PROOF OF ANALYSIS FROM THE MANUFACTURER. FERTILIZERS MUST BE APPLIED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LIME AND FERTILIZER RATES. FERTILIZERS MUST BE APPLIED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LIME AND FERTILIZER RATES.
- LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDRATED) WHICH CONTAINS AT LEAST 90 PERCENT TYPICAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). QUESTIONS MUST BE ASKED TO THE MANUFACTURER TO DETERMINE THE PERCENTAGE OF OXIDES. 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.

**B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION**

**DEFINITION**

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

**PURPOSE**

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.

**CRITERIA**

- SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM TABLE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS.
- FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
- WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-2-A.1.8 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

**TEMPORARY SEEDING SUMMARY**

NO.	COOL SEASONS ANNUAL OR EQUAL	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	FELLER RATE (10-20-20)		LIME RATE
					45 LB/AC (10 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)	
1	COOL SEASONS ANNUAL OR EQUAL	40 LB / AC	MAR 1 TO MAY 15 AUG 1 TO OCT 15	1/2 IN	45 LB/AC (10 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)	
2	WARM SEASONS PERENNIAL OR EQUAL	30 LB / AC	MAY 16 TO JUL 31	1/2 IN			

**Table B.1: Temporary Seeding for Soil Stabilization**

Plant Species	Seeding Rate*	Seeding Depth (inches)	Recommended Seeding Dates by Plant Hardness Zone**		
	lb/ac		Zone 6a	Zone 6b	Zone 7a and 7b
Annual Ryegrass (Cultivar perennans var. multi-flora)	40	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31
Bluegrass (Hybrid Ryegrass)	96	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31
Crabgrass (var. dentata)	72	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31
White Clover (var. pratensis)	120	2.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31
Common Vetch (var. sativa)	112	2.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31	Mar 15 to May 31; Aug 1 to Oct 31
Timothy (var. phaeum)	30	0.7	May 1 to Jul 31	May 1 to Jul 31	May 1 to Jul 31
Red Top (var. cicutarum)	20	0.5	May 1 to Jul 31	May 1 to Jul 31	May 1 to Jul 31

**B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING**

**DEFINITION**

THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

**PURPOSE**

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

**CONDITIONS WHERE PRACTICE APPLIES**

TO THE SURFACE OF ALL PERMETER CONTROL, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

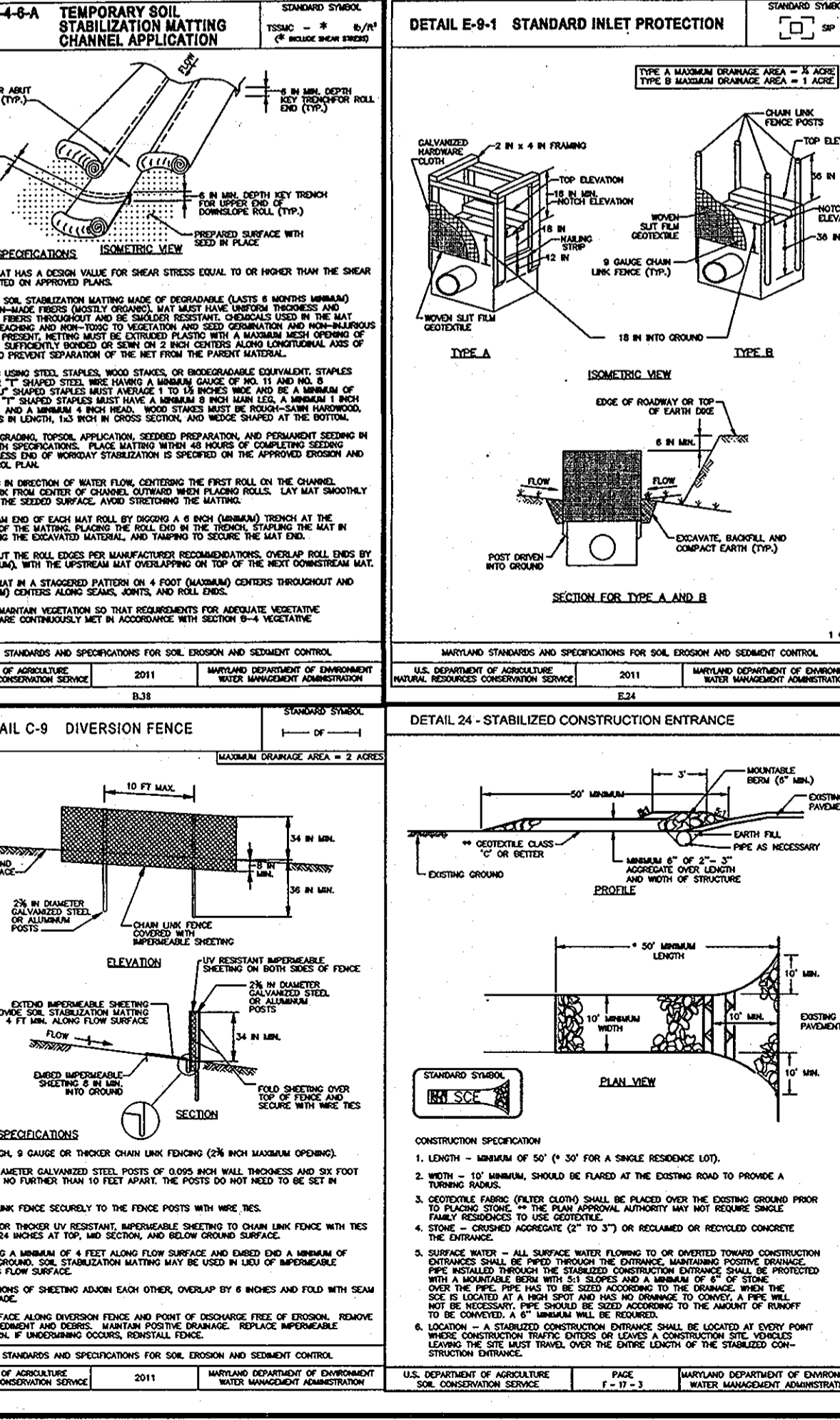
**CRITERIA**

**A. SEEDING**

- ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A REGISTERED 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 TASS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY THE 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 THAW.
- INCORPORATE SEED INTO THE SOIL BY DISKING OR OTHER SUITABLE MEANS. SEEDING 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 PACKAGE AND FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDRATED. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USE. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN KILL BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
- 300 LB OF SEED MUST BE PLACED ON SOIL WHICH HAS BEEN MULCHED WITH SOIL STABILIZERS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN) TO PERMIT DESORPTION OF PHYTO-TOXIC MATERIALS.

**B. MULCHING**

- MULCH MATERIALS (IN ORDER OF PREFERENCE):
  - STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, LIME, 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, MOULDY, GAY, DECAYED, OR EXCESSIVELY DUSTY.
  - WOOD CELLULOSE FIBER (MULCH) IN ANS OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBRE WITH A LENGTH OF 1/2 TO 1 INCH.
  - WORM CASTS (VERMICOMPOST) WHICH CONTAIN A GREEN DYE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORM SPRAY.
  - CONTROLLED AND PLANT MATERIALS WHICH ARE FREE OF NOXIOUS WEED SEEDS AND OTHER INHIBITING FACTORS.
  - WOOD MATERIALS 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 BE A FLOTTER-USE GROUND COVER WHICH PROVIDES NUTRIENT ABSORPTION AND PERSISTENCE AND WHICH DOES NOT COME IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
  - WOOD MATERIALS WHICH ARE QUALITY LOGS OR COMPOUNDS AT CONCENTRATIONS WHICH WILL BE PHYTO-TOXIC. MULCH MUST BE APPLIED TO THE FOLLOWING PROPORTIONS: VERMICOMPOST (1/2 TON PER 1000 SQ FT), WOOD CELLULOSE FIBER (2 TONS PER 1000 SQ FT), AND WORM CASTS (1 TON PER 1000 SQ FT).
- APPLICATION:
  - 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 WOOD CELLULOSE FIBER, WOOD CELLULOSE FIBER MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MISTURE 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:
    - MULCH ANCHORING TOOL: IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL. PROVIDE A MINIMUM OF 80 POUNDS OF FORCE. THIS PRACTICE IS MOST EFFECTIVE ON LAKE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE SLOPE.
    - WOOD CELLULOSE FIBER: MAY BE USED FOR ANCHORING STRAW. 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 DYE (ACRYL-DYE), DCA-70, PESTICIDE.
    - CONTROLLED AND PLANT MATERIALS WHICH ARE FREE OF NOXIOUS WEED SEEDS AND OTHER INHIBITING FACTORS.



**B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION**

**DEFINITION**

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

**PURPOSE**

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

**CONDITIONS WHERE PRACTICE APPLIES**

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

**CRITERIA**

**A. SEED MIXTURES**

- GENERAL USE:
  - SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM TABLE B.3) AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS.
  - FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR PERMANENT SEEDING.
  - WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-2-A.1.8 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.
- PERMANENT SEEDING SUMMARY:
 

NO.	COOL SEASONS ANNUAL OR EQUAL	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	FELLER RATE (10-20-20)		LIME RATE
					45 LB/AC (10 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)	
1	COOL SEASONS ANNUAL OR EQUAL	40 LB / AC	MAR 1 TO MAY 15 AUG 1 TO OCT 15	1/2 IN	45 LB/AC (10 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)	
2	WARM SEASONS PERENNIAL OR EQUAL	30 LB / AC	MAY 16 TO JUL 31	1/2 IN			

**LEGEND**

- LOD LIMIT OF DISTURBANCE
- PROPOSED PAVEMENT
- PROPOSED MICRO BIOTRETATION FACILITY
- PROPOSED EROSION CONTROL MATTING
- SSF SUPER SILT FENCE
- DF CLEAN WATER DIVERSION FENCE
- STABILIZED CONSTRUCTION ENTRANCE

**OWNERS**

SD PROPERTIES  
3138 ROGERS AVENUE  
ELLIOTT CITY, MARYLAND 21043  
(410-203-2460)

**SEDIMENT CONTROL PLAN, NOTES & DETAILS**

**F-13-082**

**HOLIDAY HILLS**  
**LOTS 115 & 116**  
A RESUBDIVISION OF LOT 43 OF  
HOLIDAY HILLS, PLAT BOOK 7 FOLIO 41  
ECP-13-016 HOWARD COUNTY, MARYLAND

**TAX MAP 41, GRID 6**  
**5TH ELECTION DISTRICT**

**ROBERT H. VOGEL**  
**ENGINEERS • SURVEYORS • PLANNERS**  
8407 MAIN STREET  
ELLIOTT CITY, MD 21043  
TEL: 410-461-7666  
FAX: 410-461-8961

**PROFESSIONAL CERTIFICATION**

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, LICENSE NO. 16189 EXPIRATION DATE: 09-27-2014.

DESIGN BY: JTD  
DRAWN BY: EJS  
CHECKED BY: AED  
DATE: SEPTEMBER, 2013  
SCALE: AS SHOWN  
W.O. NO.: 12-29  
3 SHEET OF 3

**HOWARD SOIL CONSERVATION DISTRICT**

**STANDARD SEDIMENT CONTROL NOTES**

- 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, (1313-1855).
- 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.
- FOLLOWING INTACT DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 3 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, Dikes, PERMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. (7) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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 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 DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**

TOTAL AREA OF SITE ACRES	1.00
AREA DISTURBED	0.57
AREA TO BE REVEGETATED OR PAVED	0.40
AREA TO BE PERMANENTLY STABILIZED	0.00
TOTAL CUT	350
TOTAL FILL	0
OFFSITE WATER/BORROW AREA LOCATION	N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY OR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE OBTAINED PRIOR TO CONSTRUCTION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 ACRES 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 ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT ONE TIME.
- ESTIMATE ONLY CONTRACTOR SHALL VERIFY QUANTITIES TO HIS OWN SATISFACTION, TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, WITH AN APPROVED ACTIVE GRADING PERMIT.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN HOWARD COUNTY PERMIT (1 WEEK)
- NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. (410-313-2465) (2 DAYS)
- CONDUCT A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR PRIOR TO ANY LAND DISTURBANCE. (1 DAY)
- INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM. (2 DAYS)
- INSTALL SUPER SILT FENCE AND DIVERSION FENCE AS INDICATED ON PLAN (3 DAYS)
- WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, CLEAR AND GRASS AREAS.
- BEGIN SITE GRADING AND UTILITY CONSTRUCTION. (1 WEEK)
- BEGIN BUILDING CONSTRUCTION. (12 WEEKS)
- WITH INSPECTOR'S APPROVAL, INSTALL ON-SITE PAVING BASE COURSE. (2 DAYS)
- INSTALL ALL PERMANENT SURFACE CONSTRUCTION. (1 DAY)
- FINE GRADE AND STABILIZE ALL AREAS OF PARCEL, INCLUDING ANY EXPOSED EARTH AREAS OUTSIDE THE LOT, REMOVE ALL TRASH JUNK AND DEBRIS FROM THE SITE.
- INSTALL SITE LANDSCAPING, MICRO BIOTRETATION FACILITIES AND DRYWELLS. (1 WEEK)
- REMOVE ALL SEDIMENT CONTROL MEASURES AFTER RECEIVING APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR. (2 DAYS)

**NOTES:**

- DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PROJECT.
- FOLLOWING INTACT DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMETER Dikes, SLOPES, PERMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
  - SIX (6) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE UNLESS ACTIVE GRADING.