### SHEET INDEX NO. DESCRIPTION TITLE SHEET SITE DEVELOPMENT PLAN (GRADING AND SEDIMENT CONTROL) DIMENSION PLAN SEDIMENT CONTROL NOTES AND DETAILS 5 PRIVATE ROAD PROFILES 6 SOILS AND STORMDRAIN PROFILES STORMDRAIN DRAINAGE AREA MAP 8 LANDSCAPE PLAN

## **GENERAL NOTES:**

- THIS PLAN IS SUBJECT TO COUNTY COUNCIL BILL 45-2003, THE AMENDED 5th EDITION SUBDIVISION REGULATIONS, EFFECTIVE OCTOBER 2, 2003.
- THE SUBJECT PROPERTY IS ZONED CAC-CLI PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7/28/06.
- STORM DRAIN REPORT AND STORMWATER MANAGEMENT REPORTS PROVIDED BY MILDENBERG, BOENDER & ASSOC., INC. APPROVED AS PART OF THIS PLAN SUBMISSION AND F-08-013 (12/22/2008) RESPECTIVELY. NO GRADING. REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE
- LIMITS OF WETLANDS, STREAM(S) OR THEIR REQUIRED BUFFERS, FLOOD PLAIN AND FOREST CONSERVATION EASEMENT AREAS. TOPOGRAPHIC INFORMATION IS BASED ON AERIAL RUN TOPOGRAPHY PERFORMED BY WINGS TOPOGRAPHY INC. ON OR ABOUT APRIL 2005, COMPLIMENTED WITH FIELD RUN TOPOGRAPHY PERFORMED BY MILDENBERG, BOENDER AND ASSOC. ON OR ABOUT JUNE 2007 AND BENCHMARK ENGINEERING ON OR ABOUT SEPTEMBER 2013. EXISTING CONTOURS SHOWN PER
- APPROVED GP-08-24, F-08-013, SDP-08-046, SDP-08-078. COORDINATES BASED ON NAD'83 MARYLAND COORDINATES SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL
- STATIONS NO. 37GD, 43A1, AND 43BC: STA. 37GD N 553,237.2140 E 1,372,353.6000 EL.290.95 STA. 43BC N 549,592.0910 E 1,375,466.6200 EL.214.87
- BOUNDARY INFORMATION IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT FEBRUARY, 2002 BY MILDENBERG, BOENDER AND ASSOCIATES, INC.
- THE NOISE STUDY WAS PREPARED BY MILDENBERG, BOENDER AND ASSOCIATES ON OR ABOUT FEBRUARY 2008. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE
- . The financial surety for the required landscaping shall be posted as part of the grading permit in THE AMOUNT OF \$55,950.00 FOR 144 SHADE TREES & 85 EVERGREEN/ORNAMENTAL TREES AND IN THE AMOUNT OF \$9,300.00 FOR 31 PRIVATE STREET TREES, FOR A TOTAL AMOUNT OF \$65,250.00.
- BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEET 20. . PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT, PUBLIC WATER AND SEWER WILL BE UTILIZED.
- PUBLIC WATER AND SEWER CONTRACT NO. 14-4564-D, 14-4554-D, 14-4710-D AND 14-4848-D.
- . THERE ARE NO STRUCTURES WITHIN THE LOD OF PHASE 6 TO BE REMOVED. 5. NO STEEP SLOPES EXIST ON SITE.
- . THE FOREST CONSERVATION REQUIREMENTS WERE SATISFIED UNDER SDP-08-046 AND F-09-007. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, (VOLUME III (2006), SECTION 5.5.A.) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)". A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- TRAFFIC CONTROL DEVICES: a) THE R1-1 ("STOP") SIGN AND THE STREET NAME SIGN(SNS) ASSEMBLY FRO THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED.
- b) THE TRAFFIC CONTROL DEVICES LOCATIONS SHOWN ON THE PLANS ATE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
- c) ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MdMUTCD). d) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED (QUICK PUNCH), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) -3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAT TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLL
- CAP SHALL BE MOUNTED ON TOP OF EACH POST. WP-06-114 WAS APPROVED ON AUGUST 28, 2006 WAIVING SECTION 16.119(f) OF THE SUBDIVISION REGULATIONS. THE APPROVAL WAS SUBJECT TO THE FOLLOWING CONDITIONS:

  1. THE PROPOSED ROAD AND ACCESS IMPROVEMENTS WILL REQUIRE AN ACCESS PERMIT ISSUED BY THE STATE ENGINEERING
- ACCESS PERMITS DIVISION. THE DEVELOPER MUST MEET ALL TERMS AND CONDITIONS OF THE ACCESS PERMIT. ). WP-07-052 WAS APPROVED ON MAY 8, 2007 WAIVING SECTION 16.116(a)(1) AND 16.116(a)(2)(iv) OF THE SUBDIVISION REGULATIONS THE APPROVAL IS SUBJECT TO THE FOLLOWING:

  1. UNDERGROUND SWM IN THE CURRENT LOCATION OF THE EXISTING SWM POND WILL BE INSTALLED AS NECESSARY. THE
- UNDERGROUND FACILITY WILL BE DESIGNED AND SUBMITTED FOR REVIEW AT THE PRELIMINARY, FINAL AND SITE 2. LIMITS OF DISTURBANCE WILL BE THE MINIMUM NECESSARY TO INSTALL THE IMPROVEMENTS AND SHALL NOT EXCEED THE DISTURBANCE SHOWN ON THE WAIVER PETITION EXHIBIT SUBMITTED ON 4/4/07. DISTURBANCE IS LIMITED AS FOLLOWS:
  AREA 1 - 1600 SQ.FT. OF WETLAND DISTURBANCE AND 7500 SQ.FT. OF WETLAND BUFFER
- AREA 2 18750 SQ.FT. OF WETLAND DISTURBANCE AND 19500 SQ.FT. OF WETLAND BUFFER
- AREA 3 30000 SQ.FT. OF WETLAND DISTURBANCE, 35250 SQ.FT. OF WETLAND BUFFER DISTURBANCE AND 62250 SQ.FT. OF STREAM BUFFER DISTURBANCE
- 3. ALL NECESSARY STATE AND LOCAL PERMITS WILL BE OBTAINED PRIOR TO ANY GRADING AND/OR CONSTRUCTION 4. SUPER SILT FENCING SHALL BE INSTALLED ALONG THE ENTIRE LOD FOR THE SIDEWALK IMPROVEMENTS FOR AREA
- TO THE COMMENCEMENT OF ANY CONSTRUCTION OR GRADING ACTIVITY AND SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION. 5. THE GREENSPACE/OPEN AREA IN THE NORTHEASTERN PORTION OF THE SITE SHALL BE INCREASED BY A MINIMUM OF 20,150 SQUARE FEET (THE AREA OF WETLAND AND WETLAND BUFFER DISTURBANCE ALONG U.S. ROUTE 1 THAT IS ABOVE AND BEYOND THE NECESSARY DISTURBANCE FOR ROUTE 1 ROAD IMPROVEMENTS). BUILDING #43, ITS ACCESS
- ADDITIONAL GREENSPACE. THIS AREA SHALL BE USED TO ADDRESS A PORTION OF THE SITES FOREST CONSERVATION WP-07-129 WAS APPROVED ON JULY 24, 2007, WAIVING SECTION 16.144(f) REQUIRING PRELIMINARY PLAN SUBMISSION. THE APPROVAL IS SUBJECT TO THE FOLLOWING 1. THE ENTIRE PUBLIC ROAD SYSTEM MUST BE DESIGNED WITH THE NEXT SUBMITTED FINAL PLAT AND PLAN FOR THE

AND OTHER IMPERVIOUS AREAS INCLUDING SIDEWALKS SHALL BE RELOCATED AND/OR REDESIGNED TO ALLOW FOR THIS

- STORMWATER MANAGEMENT MUST BE DESIGNED FOR ALL PUBLIC IMPROVEMENTS WITH THE NEXT SUBMITTED FINAL PLAT AND PLAN FOR THE PROPERTY. 3. PRELIMINARY WATER AND SEWER PLANS MUST BE SUBMITTED PRIOR TO OR CONCURRENTLY WITH THE NEXT SUBMITTED FINAL PLAT AND PLAN FOR THE PROPERTY . ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA
- STANDARDS AND SPECIFICATIONS AS APPLICABLE. S. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. 25. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 26. MIHUS WILL BE PROVIDED IN ACCORDANCE WITH THE ZONING REGULATIONS. MIHUS REQUIRED 23.6%(REDUCED AS A RESULT OF A PORTION OF THE PROPERTY INITIALLY ZONED COMMERCIAL)x101 UNITS = 24 MIHU'S.
- 28. OVERFLOW PARKING WILL BE ON-STREET PARKING IN ACCORDANCE WITH DESIGN MANUAL VOLUME 3, SECTION 2.9.B. TABLE 2.11. 9. THE 65dBA NOISE CONTOUR LINE DRAWN ON THIS DEVELOPMENT PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY 1992, AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65dBA NOISE EXPOSURE. THE 65dBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS
- BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND 0. LIGHT TRESPASS ONTO ANY PROPERTY ZONED OR USED FOR RESIDENTIAL PURPOSES SHALL NOT EXCEED 0.5 FOOT CANDLES
- . WP-08-020 WAS APPROVED ON OCTOBER 3, 2007, WAIVING SECTION 16.155 (APPLICABILITY) WHICH REQUIRED THE SUBMISSION OF SITE DEVELOPMENT PLAN FOR NEW OR EXPANDED NONRESIDENTIAL DEVELOPMENT AND NEW RESIDENTIAL DEVELOPMENT INCLUDING SINGLE-FAMILY ATTACHED, APARTMENT AND MOBILE HOME RESIDENTIAL DEVELOPMENT. APPROVAL IS SUBJECT TO THE FOLLOWING: 1. HSCD MUST APPROVE THE ASSOCIATED GRADING PERMIT.
- 2. THE APPLICANT AND HIS CONSULTANT MUST SCHEDULE A MEETING WITH ALL APPLICABLE COUNTY AND STATE AGENCIES TO ADDRESS THE COMMENTS FOR F-08-013 ISSUED IN THE DEPARTMENT OF PLANNING AND ZONING'S LETTER DATED SEPTEMBER 27, 2007. 2. EXISTING UTILITIES BASED ON FIELD RUN SURVEY PERFORMED BY MILDENBERG , BOENDER AND ASSOC, ON OR ABOUT JUNE 2007. 33. THERE IS NO FLOOD PLAIN WITHIN THE LOD OF THIS PLAN.
- 34. PER SECTION 127.5.D.4 OF THE 2006 ZONING REGULATIONS THE FOLLOWING SETBACKS ARE REQUIRED AND ABIDED BY:
  A. MINIMUM SETBACKS FROM THE PUBLIC STREET RIGHT-OF-WAY
  1. PRINCIPAL STRUCTURES AND AMEN'TTY AREAS
  0 FEET
- 2. ALL OTHER STRUCTURES AND USES B. MINIMUM SETBACKS FROM VICINAL PROPERTIES 1. FROM RESIDENTIAL DISTRICTS:

7. TRASH REMOVAL WILL BE PUBLIC PICK UP.

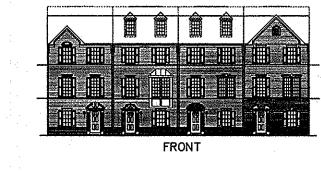
- A. NON RESIDENTIAL STRUCTURES AND ASSOCIATED USES STRUCTURES CONTAINING RESIDENCES AND ASSOCIATED USES 20 FEET
- ALL STRUCTURES AND USES O FEET 3. IF A RESIDENTIAL DISTRICT IS SEPARATED FROM THE CAC DISTRICT BY A PUBLIC STREET RIGHT OF WAY, ONLY THE SETBACKS FROM A PUBLIC STREET RIGHT OF WAY SHALL APPLY.

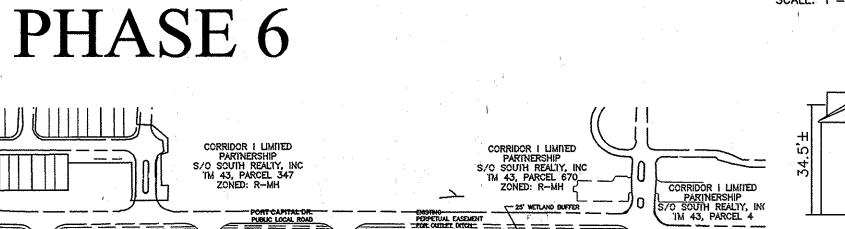
  C. MAXIMUM STRUCTURE SETBACK FROM PUBLIC STREET RIGHT OF WAY

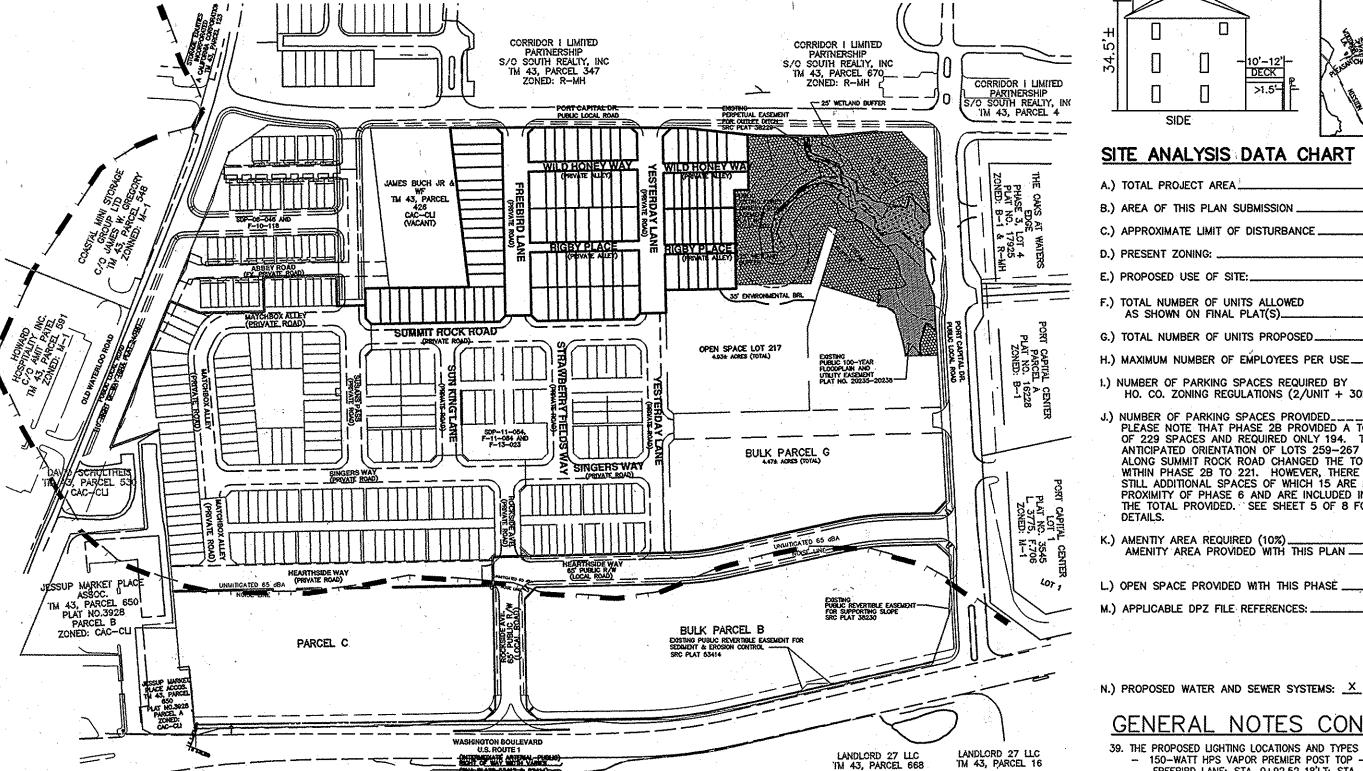
  1. AS PROVIDED IN THE ROUTE 1 MANUAL, THE BUILDING FACADE CLOSEST TO A PUBLIC STREET SHOULD BE LOCATED NO MORE THAN 10 FEET FROM THE EDGE OF THE PUBLIC STREET RIGHT OF WAY UNLESS TOPOGRAPHY, UTILITIES OR OTHER PHYSICAL CONSTRAINTS MAKE A GREATER SETBACK NECESSARY. THIS
- 10-FOOT SETBACK MAY BE INCREASED WITHOUT A VARIANCE IN ACCORDANCE WITH THE ROUTE 1 MANUAL. STORMWATER MANAGEMENT REQUIREMENTS WERE SATISFIED UNDER F-08-013. IN ACCORDANCE WITH THE 2000 MARYLAND SWM DESIGN MANUAL. SWM IS BEING PROVIDED WA PRIVATELY OWNED & MAINTAINED UNDERGROUND STORMWATER MANAGEMENT FACILITY.
- 5. THE WETLAND DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONAL, INC. DATED MAY 15, 2007. THERE ARE NO WETLANDS WITHIN THE LOD OF THIS PLAN. 7. THE APFO STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP DATED NOVEMBER 2006. APPROVED UNDER S-06-010 ON JUNE 2007. NO APFO STUDY IS REQUIRED FOR THIS PROJECT.
- APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION 9-24-14 CHIEF, DIVISION OF LAND DEVELOPMENT 9/28/14

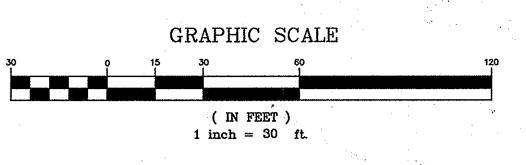
8. PROPOSED BUILDINGS WILL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.

# SITE DEVELOPMENT PLAN HOWARD SQUARE









20'--5 3/4"

20'-5 3/4"

60'-11 1/2"

MOZART BEETHOVEN

**AMENITY TABLE** Total Area **Proposed Amenity** Sections Area Regired (Area) (AC) (AC) Phase 1 Section 1 (SDP-08-046) Tot Lots and Benches 0.29 0.33 Fot Lots , Benches and Phase 1 Section 3A (SDP-08-078) 4.28 0.43 0.55 Picnic Area Phase 2 Section A (SDP-11-043) 3.80 0.38 0.00

Park with Benches, Playfield, Environmental 31.46AC 10.53 1.05 5.28 Phase 2 Section B (SDP-11-054) Area Path and Picnic Area N/A\* 0.55 0.00 Phase 6 (SDP-14-043) 5.47 Phase 9 4.47 0.45 0.00 N/A\* 0.41 AC of Amenity 0.42 0.00 Phase 3, 4 & 5 (SDP-12-018) - 4.18AC 4.18 Exclusively for Apartment Phase 7 & 8 3 - 5.47 ACI 5.46 0.54 0.00 N/A\* 2.08 0.21 N/A\* Public Street Right-of-Way N/A\* 41.11 43.2 4.3 6.16

INDICATES THAT AMENITY REQUIREMENT IS BEING MET BY THE COLLECTIVE AREA PROVIDED THROUGHOUT THE DEVELOPMENT.

Residential			Allocations Required				Allocation Provided and Anticipated			Credit/Allocations Remaining						
. Phase	Year	Deadlines	Deadline Adjustments	Credit Units	Standard Units	MIHU	Total Units	Credit Units	Std. Units	MIHU	Total Units	Ćredits	MIHU	Std. Units	Total	% Units Used
1 - Sect. 1	2008	9		206	0	O O	206	43*	0	0	43	163	0	0	163	4%
1 - Sect. 3	2010	5/17/2008	5/14/2011	0	0	70	70	0	42	15	57	163	13	0	176	9%
na	2011	na	na	0	0	0	0	0	0 .	0	0	163	13	0	176	9%
2 - Sect. A	2012	12/31/2009	5/14/2011	0	0	77	77	0	42	.14	56	163	34	0	197	15%
2 - Sect. B	2012	12/31/2009	5/14/2011	0	0	0	0	22	20	14	-56	141	0	0	141	20%
, 3	2013	12/31/2010	9/30/2011	0	0	73	73	98	55	18	171	43	0	0	43	36%
4	2014	10/31/2011		0	10	. 32	42	0	31	11.	42	43	0	0	43	40%
5	2015	3/31/2013		0	114	0	114	0	89	25	114	43	0	0	43	51%
6	2016	12/31/2013		0	90	0	90	11	66	24	101	32	. 0	0	32	60%
7	2017	12/31/2014		0	95	0	95	32	65	30	127	0	0	0	0	72%
8 /	2018	3/31/2016		0	150	0	″ 150	0	115	35	150	0	0	0	0	86%
9 ′	2019	3/31/2017		0	150	0	150	0 -	95	: 55	150	0	0	0	0	100%
			Totals	206	609	252	1067	206	609 <sup>-</sup>	252	1067					
					,			23.6	2%	Overall f	MHU%	]				

HEPBURN ELEVATION

COMPOSER TOWNHOME MATRIX

UNIT D ELEVATION "A" (PER PLAN)

19'-4 3/8" 20'-7 5/8" 19'-4 3/8" 20'-7 5/8" 19'-4 3/8"

20'-5 9/16"

NOTE: THERE IS NO

GENERIC BOX FOR THE

AVAILABLE ON LOTS

SHOWN HERE.

HEPBURN AND IT IS ONLY

311-326 WITH 8 UNITS AS

20'-5.9/16" 19'-4.3/8" 20'-7.5/8" 19'-4.3/8" 20'-7.5/8" 19'-4.3/8" 20'-7.5/8" 19'-9.15/16"

UNIT E ELEVATION E (PER PLAN)

BUILDING FOUNDATION

UNIT G UNIT F
ELEVATION "P" ELEVATION "D"
(PER PLAN) (PER PLAN)

SCALE: 1"=30'

SIDE

20'-7 5/8" | 19'-4 3/5 59-9 15/16" | 20'-7 5/8" | 19'-4 3/5 80-5 9/16 120-5 9/16 120-5 9/16 160-3 1/2

I. PLEASE NOTE THAT PHASE 1 SECTION 1 UTILIZED 43 CREDIT UNITS OF WHICH 11 ARE PROPOSED AS MIHU. PROJECTED ALLOCATION USE MAY VARY AS THE PROJECT PROCEEDS . THE TOTAL NUMBER OF STANDARD AND MIHU ALLOCATIONS ARE POOLED TOGETHER AND SINCE 11 CREDIT UNITS WERE USED FOR MIHU'S IT CREATED AN 11 UNIT DEFICIT IN THE PROVIDED MIHU COLUMN AND AN 11 UNIT EXCESS IN THE STD. UNIT COLUMN.

Comm	ercial	S-06-010 Outline	Currently Anticipated		
Phase	Year	Deadlines	Adjustments	Commercial (SF)	Commercial (SF)
1 - Sect. 1	2008	1			n/a
1 - Sect. 3	2010	5/17/2008	8/14/2010	84000	n/a
na .	2011	na	na ·	0	n/a
2	2012	12/31/2009	5/14/2011	16800	n/a
3	2013	12/31/2010	9/30/2011	36900	n/a
4	2014	10/31/2011	·	17300	n/a
5	2015	3/31/2013		37200	n/a
6	2016	12/31/2013		10800	n/a
7*	2017	12/31/2014		26700	156600
- 8	2018	3/31/2016		26400	61750
9	2019	3/31/2017		24000	61750
-		· · · · · · · · · · · · · · · · · · ·	Totals	280100	280100

1. AFTER COMPLETION OF 60% OF THE RESIDENTIAL COMPONENT, SDP APPROVAL MUST BE Granted and construction must begin on a minimum of 25% of the required commercia COMPONENT. NO RESIDENTIAL BUILDING PERMITS WILL BE ISSUED UNTIL THIS REQUIREMENT HAS BEEN SATISFACTORILY ADDRESSED, PER THE PLANNING DIRECTOR, THIS SOP IS GRANDFATHERED TO THE 2/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP. LITE ZONING AMENDMENTS EFFECTIVE 7/28/06. WITH THE EXCEPTION OF THE COMMERCIAL REQUIREMENT. THE 84,000 SF INDICATED IN PHASE 1 SECT. 3 WAS ASSOCIATED WITH A HOTEL SDP-08-062 WHICH WAS VOIDED ON JULY 8, 2008.

L	246	7301 SUMMIT ROCK ROAD	297	THOT WILD HONEY WAY
L	247	7303 SUMMIT ROCK ROAD	298	7409 WILD HONEY WAY
	248	7305 SUMMIT ROCK ROAD	299	7413WILD HONEY WAY
. [	249	7307 SUMMIT ROCK ROAD	300	7415WILD HONEY WAY
	250	7309 SUMMIT ROCK ROAD	301	7417 WILD HONEY WAY.
Γ	251	7313 SUMMIT ROCK ROAD	302	74 19 WILD HONEY WAY
Γ	252	7315 SUMMIT ROCK ROAD	303	742 WILD HONEY WAY
Γ	253	7317 SUMMIT ROCK ROAD	304	7867 PORT CAPITAL ROAD
ı	254	7319 SUMMIT ROCK ROAD	305	7865 PORT CAPITAL ROAD
ľ	255	7321 SUMMIT ROCK ROAD	306	7863 PORT CAPITAL ROAD
Ī	256	7323 SUMMIT ROCK ROAD	307	7861 PORT CAPITAL ROAD
ı	257	7325 SUMMIT ROCK ROAD	308	7859 PORT CAPITAL ROAD
f	258	7327 SUMMIT ROCK ROAD	309	7857 PORT CAPITAL ROAD
t	259	7331 SUMMIT ROCK ROAD	310	7855 PORT CAPITAL ROAD
f	260	7333 SUMMIT ROCK ROAD	311	7424 WILD HONEY WAY
f	261	7335 SUMMIT ROCK ROAD	312	7426 WILD HONEY WAY
ı	262	7337 SUMMIT ROCK ROAD	313	7428 WILD HONEY WAY
ŀ	263	7339 SUMMIT ROCK ROAD	314	7430 WILD HONEY WAY
F	264	7343 SUMMIT ROCK ROAD	315	7432 WILD HONEY WAY
H	265	7345 SUMMIT ROCK ROAD	316	7434 WILD HONEY WAY
H	266	7347 SUMMIT ROCK ROAD	317	7436 WILD HONEY WAY
H	267	7349 SUMMIT ROCK ROAD	318	7438 WILD HONEY WAY
ŀ	268	7420 RIGBY PLACE	319	7437 RIGBY PLACE
ŀ	269	7418 RIGBY PLACE	320	7435 RIGBY PLACE
ŀ	270	7416 RIGBY PLACE	321	7433 RIGBY PLACE
- 1	271	7414 RIGBY PLACE	322	7431 RIGBY PLACE
	272	7410 RIGBY PLACE	323	7429 RIGBY PLACE
ŀ	273	7400 RIGBY PLACE	324	7427 RIGBY PLACE
H	274	7406 RIGBY PLACE	325	7427 RIGBY PLACE
- +	<del></del>	7404 RIGBY PLACE		7423 RIGBY PLACE
}	275		326	
	276	7402 RIGBY PLACE	327	7424 RIGBY PLACE
	277	7401 RIGBY PLACE	328	7426 RIGBY PLACE
}	278	7403 RIGBY PLACE	329	7428 RIGBY PLACE
ļ.	279	7405 RIGBY PLACE	330	7430 RIGBY PLACE
- 1	280	7407 RIGBY PLACE	331	7432 RIGBY PLACE
].	281	7409 RIGBY PLACE	332	7434 RIGBY PLACE
1	282	7413 RIGBY PLACE	333	7332 FREEBIRD LANE
	283	7415 RIGBY PLACE	334	7330 FREEBIRD LANE
L	284	7417 RIGBY PLACE	335	7328 FREEBIRD LANE
1	285	7419 RIGBY PLACE	336	7324 FREEBIRD LANE
1	286	7420 WILD HONEY WAY	337	7322 FREEBIRD LANE
	287	7418 WILD HONEY WAY	338	7320 FREEBIRD LANE
	288	7416 WILD HONEY WAY	339	7318 FREEBIRD LANE
	289	7414 WILD HONEY WAY	340	7316 FREEBIRD LANE
L	290	7412 WILD HONEY WAY	341	7314 FREEBIRD LANE
[	291	7408 WILD HONEY WAY	342	7312 FREEBIRD LANE
ſ	292	7406 WILD HONEY WAY	343	7310 FREEBIRD LANE
Γ	293	7404 WILD HONEY WAY	344	7306 FREEBIRD LANE
Γ	294	7402 WILD HONEY WAY	345	7304 FREEBIRD LANE
Γ	295	7403 WILD HONEY WAY	346	7302 FREEBIRD LANE
	296	7405WILD HONEYWAY	347	OPEN SPACE

GRAPHIC SCALE

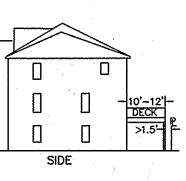
( IN FEET )

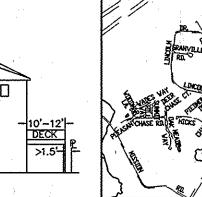
1 inch = 200 ft.

ADDRESS CHART

OT NO. ISTREET ADDRESS LOT NO. ISTREET ADDRESS

PERMIT INFORMATION CHART SUBDIVISION NAME: SECTION/AREA: PARCEL: HOWARD SQUARE PARCEL PHASE 6 657/'A-4' BLOCK No. ZONE: CENSUS TRACT ELECTION TAX MAP: 3&9 6069.01







\_\_ 5.47± AC.

SITE ANALYSIS DATA CHART

ADC MAP 34 GRID D-6 \_\_ 5.47± AC.

\_ CAC-CLI D.) PRESENT ZONING: E.) PROPOSED USE OF SITE:\_\_\_ SINGLE FAMILY ATTACHED UNITS F.) TOTAL NUMBER OF UNITS ALLOWED

AS SHOWN ON FINAL PLAT(S). G.) TOTAL NUMBER OF UNITS PROPOSED .... H.) MAXIMUM NUMBER OF EMPLOYEES PER USE\_\_\_\_

1.) NUMBER OF PARKING SPACES REQUIRED BY HO. CO. ZONING REGULATIONS (2/UNIT + 30%)\_ J.) NUMBER OF PARKING SPACES PROVIDED \_\_\_\_\_\_\_ 233 (202 (2 SPACES/UNIT) PLEASE NOTE THAT PHASE 2B PROVIDED A TOTAL OF 229 SPACES AND REQUIRED ONLY 194. THE ANTICIPATED ORIENTATION OF LOTS 259-267 +15 (TRANSFERRED FROM PHASE 2E) +15 (TRANSFERRED FROM PHASE 2B VIA REDLINE)

ALONG SUMMIT ROCK ROAD CHANGED THE TOTAL WITHIN PHASE 2B TO 221. HOWEVER, THERE ARE STILL ADDITIONAL SPACES OF WHICH 15 ARE IN PROXIMITY OF PHASE 6 AND ARE INCLUDED IN THE TOTAL PROVIDED. SEE SHEET 5 OF 8 FOR 0.55 AC. (10% OF 5.47 AC. OR AREA OF SUBDIVISION)

- 0.00 AC. (AMENITY PROVIDE IN PREVIOUS SECTIONS SEE TABLE THIS SHEET. L.) OPEN SPACE PROVIDED WITH THIS PHASE \_\_\_\_ \_SDP-92-079, WP-92-165 WP-93-044, WP-93-094, WP-94-047 WP-06-114, WP-07-052, S-06-010, WP-07-129, F-09-007, F-08-013 SDP-08-046, SDP-08-078, F-09-053, WP-10-140, F-10-118, WP-11-017, WP-11-067, F-11-009, F-11-077, WP-11-165, F-11-076, F-11-084, SDP-11-043, SPD-11-054, .) APPLICABLE DPZ FILE REFERENCES: \_

F-13-023, F-13-118, WP-12-142, F-14-077 N.) PROPOSED WATER AND SEWER SYSTEMS: X PUBLIC PRIVATE

### GENERAL NOTES CONT'D:

AMENITY AREA PROVIDED WITH THIS PLAN \_\_\_\_\_

- 39. THE PROPOSED LIGHTING LOCATIONS AND TYPES OF LIGHTS SHOWN ON SHEET 2 ARE AS FOLLOWS: 150-WATT HPS VAPOR PREMIER POST TOP - (SEE SHEET 5 OF 8 FOR MORE DETAIL) FREEBIRD LANE: STA. 0+92.52 18'LT: STA. 3+02.05 18'LT YESTERDAY LANE: STA. 1+27.06 18'RT: STA. 2+96.58 18'RT 40. WP-11-017 WAS APPROVED IN AUGUST 27, 2010, WAIVING SECTION 16.156 (g)(2) WHICH ESTABLISHES TIMELINES
- FOR SUBMISSION OF REVISED PLANS AND SECTION 16.1104(b) WHICH OUTLINES THE PHASING PROCESS AND THE ESTABLISHMENT OF THE PHASING SCHEDULE AND ASSOCIATED MILESTONES. APPROVAL IS SUBJECT TO THE FOLLOWING: 1. THE DEVELOPER MUST SUBMIT REVISED PLANS IN ASSOCIATION WITH SDP-08-078 FORTHE REMAINING 105 UNITS
- 2. THE DEVELOPER MUST SUBMIT THE NEXT PHASE FOR 73 UNITS (DESIGNATED PHASE 3 IN DEPARTMENT OF PLANNING AND ZONING'S LETTER OF MAY 27, 2008) ON OR BEFORE SEPTEMBER 30, 2011. 3. REVISED PLANS WILL BE SUBMITTED TO ALL SRC AGENCIES FOR REVIEW.
- 41. WP-11-067 WAS APPROVED ON NOVEMBER 23, 2010, WAIVING SECTION 16.120(C)(4) WHICH REQUIRES THAT SINGLE-FAMILY-ATTACHED LOTS HAVE A MINIMUM 15 FOOT FRONTAGE ON A PUBLIC ROAD WHICH MAY BE APPROVED PROVIDED THEY FRONT ON A COMMONLY OWNED AREA CONTAINING A PARKING AREA OR PRIVATE ROAD NOT EXCEEDING 200 FOOT LENGTH. APPROVAL IS SUBJECT TO THE FOLLOWING: 1. F-11-009 MUST BE RECORDED PRIOR TO FINAL SIGNATURE APPROVAL
- 2. A HOMEOWNER'S ASSOCIATION WILL BE CREATED THAT WILL BE THE REPRESENTATIVE PARTY FOR THE MAINTENANCE OF THE PRIVATE ROADS AND STORMWATER CONVEYANCE & MANAGEMENT FACILITIES. WATER & SEWER SHALL BE PUBLIC AND MAINTAINED FOR EACH UNIT WITHIN THE RECORDED PUBLIC EASEMENT.
- 42. THE MIHU AGREEMENT WAS RECORDED IN LIBER 15789 /FOLIO 14 TWENTY-FOUR (24) UNITS ARE REQUIRED FOR THIS SECTION. TWENTY-FOUR (24) UNITS ARE PROVIDED AND WILL BE LOCATED IN THE
- 43. DUE TO THE PARKING REQUIREMENTS, GARAGES MUST NOT BE CONVERTED TO STORAGE OR LIVABLE SPACE. GARAGES AND DRIVEWAYS MUST BE KEPT SUFFICIENTLY CLEAR TO ALLOW FOR REQUIRED PARKING.
- 44. A WAIVER PETITION (WP-11-165) WAS APPROVED ON JUNE 8, 2011 TO SECTION 16.120(C)(4) TO ALLOW FOR PRIVATE ROADS SUBJECT TO THE FOLLOWING:
- 1. A HOME OWNER'S ASSOCIATION FOR EACH PHASE OF THE HOWARD SQUARE PROJECT WILL BE CREATED THAT WILL BE THE RESPONSIBLE PARTY FOR THE MAINTENANCE OF THE PRIVATE ROADS AND STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES. WATER AND SEWER SHALL BE PUBLIC AND MAINTAINED FOR EACH UNIT WITHIN A RECORDED
- 45. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECK, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT
- 46. PRIVATE ROAD STREET NAME SIGN ASSEMBLIES SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAIL AND COST ESTIMATES. 47. BASED ON AVAILABLE COUNTY DATA THIS SITE IS NOT ON A SCENIC ROAD.

2-8-16 REVISE ADDRESS CHART FOR LOTS 295-303

NO.

DATE

DEVELOPER/OWNER:

44. THIS PROJECT WAS PRESENTED TO THE ROUTE 1 DESIGN ADVISORY PANEL ON APRIL 9, 2014 AND WAS APPROVED WITH THE FOLLOWING COMMENTS: 1) THAT THE APPLICANT CONSIDERS MIXING UNIT TYPES WITHIN THE SAME BUILDING JUST TO CREATE SOME INTEREST AND VARIETY: AND 2) THAT THE APPLICANT CONSIDERS A COMMUNITY GARDEN FOR THE [AMMENITY] SPACE [THAT BACKS TO OLD WATERLOO ROAD]

REVISION Professional Certification. I hereby certify that these document BENCHMARK Expiration Date: 6-30-2015. ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043 WWW.BEI-CIVILENGINEERING.COM

were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

ATAPCO HOWARD SQUARE II STATUTORY TRUST 10 E. Baltimore St. Suite 1600 Baltimore, MD 21202 (410) 347-7189

PHASE 6 LOTS 246 THRU 346, AND OPEN SPACE LOT 347 (A RESUBDIVISION OF BULK PARCEL 657(A-4) PER F-11-084) 101 TOWNHOUSE UNITS ON FEE-SIMPLE LOTS TAX MAP: 43 / GRIDS 3 & 9 / PARCEL: 657 (A-4) (F-11-084) ZONED: CAC-CLI ELECTION DISTRICT NO. 1 - HOWARD COUNTY, MARYLAND

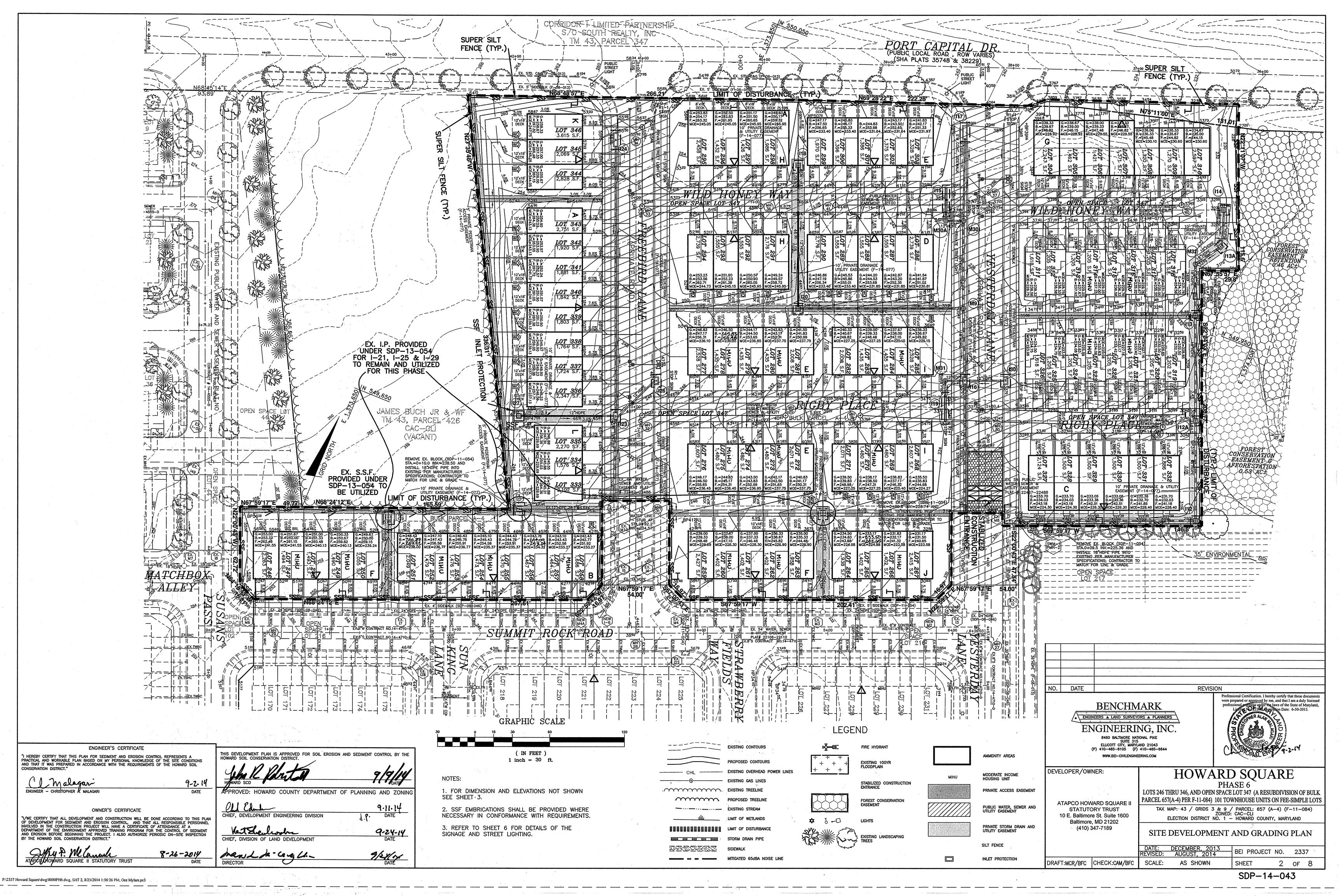
TITLE SHEET

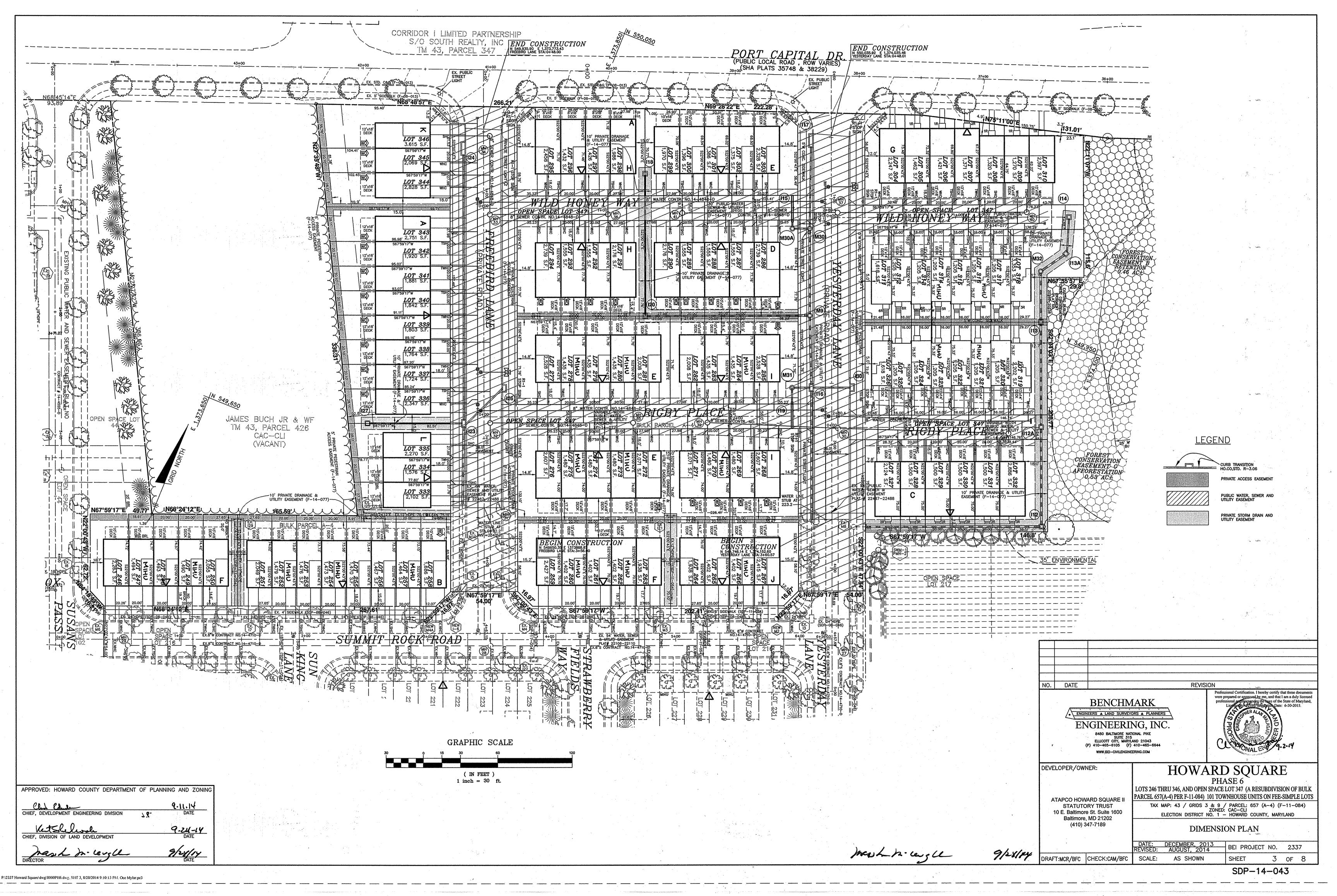
HOWARD SQUARE

DATE: DECEMBER, 2013 REVISED: AUGUST, 2014 BEI PROJECT NO. 2337 AS SHOWN DRAFT:BFC/MCR CHECK:BFC SCALE: of 8

SDP-14-043

DIRECTOR





#### **B-4 STANDARDS AND SPECIFICATIONS** B-4-4 STANDARDS AND SPECIFICATIONS **B-4-3 STANDARDS AND SPECIFICATIONS** TEMPORARY STABLIZATION VEGETATIVE STABILIZATION SEEDING AND MULCHING To stabilize disturbed soils with vegetation for up to 6 months. Using vegetation as cover to protect exposed soil from erosion The application of seed and mulch to establish vegetative cover. To use fast growing vegetation that provides cover on disturbed soils. To promote the establishment of vegetation on exposed soil. To protect disturbed soils from erosion during and at the end of construction Conditions Where Practice Applies Conditions Where Practice Applies Conditions Where Practice Applies On all disturbed areas not stabilized by other methods. This specification is divided into sections on Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, To the surface of all perimeter controls, slopes, and any disturbed area not under active grading. permanent stabilization practices are required. stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary 1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Specifications Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along and permanent stabilization a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be Effects on Water Quality and Quantity with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and subject to re-testing by a recognized seed laboratory. All seed used must have been Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is completed, then Table B.1 plus fertilizer and lime rates must be put on the plan. tested within the 6 months immediately preceding the date of sowing such material on stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, For sites having soil tests performed, use and show the recommended rates by the testing agency. any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be Soil tests are not required for Temporary Seeding. available upon request to the inspector to verify type of seed and seeding rate. 3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch reducing sediment loads and runoff to downstream areas. b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season. 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 runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must **B-4-5 STANDARDS AND SPECIFICATIONS** not be used later than the date indicated on the container. Add fresh inoculants as increase organic matter content and improve the water holding capacity of the soil and subsequent plant directed on the package. Use four times the recommended rate when hydroseeding. PERMANENT STABILIZATION Note: It is very important to keep inoculant as cool as possible until used. Temperatures Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less To stabilize disturbed soils with permanent vegetation. receiving waters. Plants will also help protect groundwater supplies by assimilating those substances d. Sod or seed must not be placed on soil which has been treated with soil sterilants or To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils. within the root zone. chemicals used for weed control until sufficient time has elapsed (14 days min.) to Conditions Where Practice Applies Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, permit dissipation of phyto-toxic materials. Exposed soils where ground cover is needed for 6 months or more. Adequate Vegetative Establishment a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. A. Seed Mixtures Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table 1. General Use reseedings within the B.1, Permanent Seeding Table B.3, or site-specific seeding summarie a Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness planting season. ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter Adequate vegetative stabilization requires 95 percent groundcover. in each direction. Roll the seeded area with a weighted roller to provide good selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The 2. If an area has less than 40 percent groundcover, restabilize following the original recommendations Summary is to be placed on the plan. for lime, fertilizer, seedbed preparation, and seeding. b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. b Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or 3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates i. Cultipacking seeders are required to bury the seed in such a fashion as to for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical originally specified. provide at least 1/4 inch of soil covering. Seedbed must be firm after Field Office Guild, Section 342 - Critical Area Planting. 4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6. c. For sites having disturbed areas over 5 acres, use and show the rates recommended by the soil ii. Apply seed in two directions, perpendicular to each other. Apply half the B-4-1 STANDARDS AND SPECIFICATIONS d For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per 1000 seeding rate in each direction. c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown INCREMENTAL STABILIZATION in the Permanent Seeding Summary. i. If fertilizer is being applied at the time of seeding, the application rates should 2. Turfgrass Mixtures not exceed the following: nitrogen, 100 pounds per acre total of soluble stablishment of vegetative cover on cut and fill slopes. a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites nitrogen; P2O5 (phosphorous), 200 pounds per acre; K2O (potassium), which will receive a medium to high level of maintenance. To provide timely vegetative cover on cut and fill slopes as work progresses. b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. 200 pounds per acre. ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be Conditions Where Practice Applies Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles. applied by hydroseeding). Normally, not more than 2 tons are applied by The summary is to be placed on the plan. i. Kentucky Bluegrass: Full sun Mixture: For use in areas that receive intensive management hydroseeding at any one time. Do not use burnt or hydrated lime when Incremental Stabilization - Cut Slopes Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified 1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed iii. Mix seed and fertilizer on site and seed immediately and without interruption. Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a and apply seed and mulch on all cut slopes as the work progresses. iv. When hydroseeding do not incorporate seed into the soil. minimum of three Kentucky Bluegrass Cultivars with each ranging from 10 to 35 percent of the total 2. Construction sequence example (Refer to Figure B.1): mixture by weight. Mulch Materials (in order of preference) a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified around the excavation. b. Perform Phase 1 excavation, prepare seedbed, and stabilize. bright in color. Straw is to be free of noxious weed seeds as specified in the Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as aryland Seed Law and not musty, moldy, caked, decayed, or excessively dust 1000 square feet. Choose a minimum of three Kentucky Bluegrass Cultivars with each ranging from 10 to 35 percent of the total mixture by weight. iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas 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 d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously processed into a uniform fibrous physical state seeded areas as necessary. receiving low to medium management in full sun to medium shade. Recommended mixture includes; Note: Once excavation has begun the operation should be continuous from grubbing through the i. WCFM is to be dyed green or contain a green dye in the package that will Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any provide an appropriate color to facilitate visual inspection of the percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended itemuptions in the operation or completing the operation out of the seeding season will necessitate iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: the application of temporary stabilization. ii. WCFM, including dye, must contain no germination or growth inhibiting B. Incremental Stabilization - Fill Slopes iii. WCFM materials are to be manufactured and processed in such a 1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed 1 1/2 to 3 pounds per 1000 square feet. manner that the wood cellulose fiber mutch will remain in uniform Notes: Select turfgrass varieties from those listed in the most current University of Maryland and apply seed and mulch on all slopes as the work progresses. 2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading suspension in water under agitation and will blend with seed, Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland" Choose fertilizer and other additives to form a homogeneous slurry. The operation ceases as prescribed in the plans. certified material. Certified material is the best guarantee of cultivar purity. The certification program mulch material must form a blotter-like ground cover, on application of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of 3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner. having moisture absorption and percolation properties and must consumer protection and assures a pure genetic line. cover and hold grass seed in contact with the soil without inhibiting 4. Construction sequence example (Refer to Figure B.2): c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b. 6a) the growth of the grass seedlings. a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around 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 iv. WCFM material must not contain elements or compounds at the fill. Construct silt fence on low side of fill unless other methods shown on the plans concentration levels that will be phyto-toxic. address this area. v. WCFM must conform to the following physical requirements: fiber length b. At the end of each day, install temporary water conveyance practice(s), as necessary, to (Hardiness Zones: 7a, 7b) of approximately 10 millimeters, diameter approximately 1 millimeter intercept surface runoff and convey it down the slope in a non-erosive manner. d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in c. Place Phase 1 fill, prepare seedbed, and stabilize. vater holding capacity of 90 percent minimum diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose d. Place Phase 2 fill, prepare seedbed, and stabilize. e. Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as a. Apply mulch to all seeded areas immediately after seeding. e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a Note: Once the placement of fill has begun the operation should be continuous from grubbing through the every 3 to 4 days depending on soil texture) until they are firmly established. This is not especially uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on so that the soil surface is not exposed. When using a mulch anchoring tool, increase the interruptions in the operation or completing the operation out of the seeding season will necessitate the adverse sites. application rate to 2.5 tons per acre. B. Sod: to provide quick cover on disturbed areas (2:1 grade or flatter). application of temporary stabilization. c. 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 a. Class of turfgrass must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector. B-4-2 STANDARDS AND SPECIFICATIONS b. Sod must be machine cut at a uniform soil thickness of 1/4 inch, plus or minus 1/4 inch, at the time of a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS or water. This may be done by one of the following methods (listed by preference), depending or uneven ends will not be acceptable. c. Standard size sections of sod must be strong enough to support their own weight and retain their upon the size of the area and erosion hazard: The process of preparing the soils to sustain adequate vegetative stabilization i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section. Purpose To provide a suitable soil medium for vegetative growth. mulch into the soil surface a minimum of 2 inches. This practice is most effective d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may on large areas, but is limited to flatter slopes where equipment can operate safely adversely affect its survival. Conditions Where Practice Applies If used on sloping land, this practice should follow the contour e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted Where vegetative stabilization is to be established ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net within this period must be approved by an agronomist or soil scientist prior to its installation. dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a 2. Sod installation maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. a. During periods of excessively high temperature or in areas having dry subsoil, lightly imigate the Temporary Stabilization . Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II Seedbed preparation consists of loosening soil to a death of 3 to 5 inches by means of Tema Tack AR or other approved equal may be used. Follow application rates as b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly suitable agricultural or construction equipment, such as disc harrows or chisel plows o specified by the manufacturer. Application of liquid binders needs to be heavier at wedged against each other. Stagger lateral joints to promote more uniform growth and strength. rippers mounted on construction equipment. After the soil is loosened, it must not be the edges where wind catches mulch, such as in valleys and on crests of banks. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent olled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to Use of asphalt binders is strictly prohibited. voids which would cause air drying of the roots. be tracked with ridges running parallel to the contour of the slope. iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Apply fertilizer and lime as prescribed on the plans. recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other exists between sod roots and the underlying soil surface. suitable means. d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and Permanent Stabilization soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and A soil test is required for any earth disturbance of 5 acres or more. The minimum soil STANDARD SEDIMENT CONTROL NOTES irrigating for any piece of sod within eight hours. conditions required for permanent vegetative establishment are: Soil pH between 6.0 and 7.0. a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF ii. Soluble salts less than 500 parts per million (ppm) INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to 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 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE c. Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by plus clay) would be acceptable. PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST STANDARDS the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless iv. Soil contains 1.5 percent minimum organic matter by weight. AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". AND REVISIONS THERETO. 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 FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER H-5 STANDARDS AND SPECIFICATIONS Graded areas must be maintained in a true and even grade as specified on the SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches. 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. Apply soil amendments as specified on the approved plan or as indicated by the results ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND Controlling the suspension of dust particles from construction activities Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN means. Rake lawn areas to smooth the surface, remove large objects like stones and To prevent blowing and movement of dust from exposed soil surfaces to reduce on and off-site damage including branches, and ready the area for seed application. Loosen surface soil by dragging with health and traffic hazards. a heavy chain or other equipment to roughen the surface where site conditions will not ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN Conditions Where Practice Applies permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION Areas subject to dust blowing and movement where on and off-site damage is likely without treatment eaving the soil in an irregular condition with ridges running parallel to the contour of the AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC.54), TEMPORARY <u>Specifications</u> <u>Mulches:</u> See Section B-4-2 Soil Preparation, Topsoiling, and Soil Amendments, Section B-4-3 slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE unnecessary on newly disturbed areas. CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER eeding and Mulching, and Section B-4-4 Temporary Stabilization. Mulch must be anchored to Topsoiling 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The GERMINATION AND ESTABLISHMENT OF GRASSES. <u>Vegetative Cover:</u> See Section B-4-4 Temporary Stabilization. <u>Tillage:</u> Till to roughen surface and bring clods to the surface. Begin plowing on windward purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and gradation. Topsoil salvaged from an existing site may be used provided it meets the standards as set THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. similar plows are examples of equipment that may produce the desired effect. Irrigation: Sprinkle site with water until the surface is moist. Repeat as needed. The site must 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 5.47 ACRES 5.47 ACRES TOTAL AREA OF SITE: \_\_\_\_ Barners: Solid board fences, silt fences, snow fences, burlap fences, straw bales, and similar USDA-NRCS. AREA DISTURBED: naterial can be used to control air currents and soil blowing. Topsoiling is limited to areas having 2:1 or flatter slopes where: AREA TO BE ROOFED OR PAVED: ACRES Chemical Treatment: Use of chemical treatment requires approval by the appropriate plan The texture of the exposed subsoil/parent material is not adequate to produce AREA TO BE VEGITATIVELY STABILIZED: vegetative growth. 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. THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. Areas having slopes steeper than 2:1 require special consideration and design. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS. 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 ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT sand. Other soils may be used if recommended by an agronomist or soil scientist and OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 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. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD stones, stag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than COUNTY SEDIMENT CONTROL INSPECTOR. TAKARANSI Beinger froxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND scientist and approved by the appropriate approval authority, may be used in lieu of SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING natural topsoil. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. 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 11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT thickness of 4 inches. Spreading is to be performed in such a manner that sodding or WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER. 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 SEQUENCE OF CONSTRUCTION when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. Soil Amendments (Fertilizer and Lime Specifications) NOTE: SEDIMENT CONTROL MEASURES UNDER SDP-11-054 AND F-08-013 WILL BE UTILIZED. 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 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS SHOWN. (1 DAY) engineering purposes may also be used for chemical analyses. 3. PROVIDE SSF ALONG THE LOD AS SHOWN. UPON APPROVAL BY THE S&E CONTROL INSPECTOR BRING SITE TO GRADE (30 DAYS) 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 4. CONSTRUCT STORM DRAIN AND UTILITIES. PROPOSED STORM DRAINS & STRUCTURES TO BE CONSTRUCTED AND TIED INTO THE EX. appropriate approval authority. Fertilizers must all be delivered to the site fully labeled STORM DRAIN INFRASTRUCTURE AS SHOWN ON THESE PLANS. ALL INLETS TO BE BLOCKED UNTIL FINAL CONSTRUCTION (60 DAYS).

5. BASE PAVE ROADS AS SHOWN AND THEN UNBLOCK AND INSTALL TYPE 'B' INLET PROTECTION ON ALL INLETS AS SHOWN WITHIN THE

8. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES, FINALIZE GRADING AND STABILIZE

LIMITS OF THIS SDP. (15 DAYS). INLET PROTECTION TO BE WRAPPED IN SUPER SILT FENCE WHERE INDICATED ON THE PLANS.

6. CONSTRUCT PROPOSED DWELLINGS/STRUCTURES. (90 DAYS - PER UNIT BLOCK)

7. SEED AND MULCH ALL REMAINING DISTURBED AREAS (2 DAYS)

REMAINING DISTURBED AREAS (3 DAYS).

FOR DUST CONTROL

CONSTRUCTION SPECIFICATIONS TYPE A MAXIMUM DRAMAGE AREA \* % ACRE TYPE B MAXIMUM DRAMAGE AREA \* 1 ACRE USE VOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 NATERIALS. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION. - WOVEN SUIT FILM GEOTEXTILE TYPE A ISOMETRIC VIEW MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF ACROUNTIRE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WITHRU RESOURCES CONSERVATION SERVICE 2011 U.S. DEPARTMENT OF AGRICULTURE 2011 WATER MANAGEMENT ADMINISTRATION DETAIL E-9-3 CURB INLET PROTECTION DETAIL E-9-2 AT-GRADE INLET PROTECTION MAXIMUM DRAINAGE AREA - % AC HAXIHUH DRAINAGE AREA = 1 ACRE OF 2 IN x 4 IN 2 IN x 4 IN WER-LE FT MAX. SPACING OF 14 TO 1/4 STONE -- 3% TO 1% IN STONE --- 2 IN x 4 IN ANCHORS, -2 IN x 4 IN SPACER L2 N x 4 N WER SECTION\_A-A PLAN / CUT AWAY MEW LEDGE OF GUTTER PAI ISOMETRIC ONSTRUCTION SPECIFICATIONS USE NOMENAL 2 INCH x 4 INCH LUMBER USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. NAIL THE 2x4 WER TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART). ATTACH A CONTRIUOUS PIECE OF % BICH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 224 WERE, EXTENDING IT 2 FEET BEFOND THROAT ON EACH SDE. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WER. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEE LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBACS OR OTHER APPROVED ANCHORS OF MINIMUM 2. CONSTRUCTION SPECIFICATIONS INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CUR TO SPAN THE NUET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN % TO 1% RICH STONE OR EQUIVALENT RECYCLED CONCRETE. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE. PLACE CLEAN %, TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDBMENT CONTRO MARYLAND STANDARDS AND SPECIFICATION'S FOR SOIL EROSION AND SEDMENT CONTROL J.S. DEPARTMENT OF AGRICULTURE
AL RESOURCES CONSERVATION SERVICE

2011

MARTINAL DEPARTMENT OF ENVIRONMENT
ADMINISTRATION DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE DETAIL E-3 SUPER SILT FENCE SCE >-PIPE (SEE NOTE 6) PROFILE GALVANIZED CHAIN LINK FENCE WITH WOVEN SUIT FILM GEOTEXTILE TOW \_\_ CROSS SECTION PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTRINE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (\*30 FEET FOR SINCLE RESIDENCE LOT). USE MINIMUM WOTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EOISTING ROAD TO PROVIDE A TURNING RADAYS. INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART, DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MANTANING POSTIVE ORAMAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIAUL OF 12 INCHES OF STONE OVER THE PIPE, PROVED PIPE AS SPECIFIED ON APPROVED PLAN, WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO ORAMAGE TO CONTYET, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. FASTEN & GAUGE OR HEAVER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 NICHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE THES OR HUG RUNGS. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THUPSLOPE SIDE OF CHAIN LION FENCE WITH TIES SPACED EVERY 24 NICHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 HICHES INTO THE GROUND. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 WHERE ENDS OF THE GEOTEXTRE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES FOLDED, AND STAFLED TO PREVENT SEDMENT BY PASS. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DECREES TO THE MAIN FENCE ALMONMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE. PROVIDE MANUFACTURER CERTIFICATION TO THE RISPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT, REPLACE GEOTEXTILE IF TORN, IF UNDERWINNING OCCURS, REINSTALL CHAIN LINK FENCING, AND GEOTEXTILE. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOR, EROSION AND SEDMENT CONTROL MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DEPARTMENT OF ENARCHMENT OF HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL 9-2-14 REVISION DATE OWNER'S CERTIFICATE Professional Certification, I hereby certify that these docume "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION were prepared or approved by me, and that I am a duly license BENCHMARK the laws of the State of Marylan ENGINEERS A LAND SURVEYORS A PLANNERS BY THE HOWARD SOIL CONSERVATION DISTRICT." ENGINEERING, INC 8-26-2014 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE WWW.BEI-CIVILENGINEERING.COM 9/9/11/ DEVELOPER/OWNER: **HOWARD SQUARE** APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING LOTS 246 THRU 346, AND OPEN SPACE LOT 347 (A RESUBDIVISION OF BULK ARCEL 657(A-4) PER F-11-084) 101 TOWNHOUSE UNITS ON FEE-SIMPLE LOTS ATAPCO HOWARD SQUARE II TAX MAP: 43 / GRIDS 3 & 9 / PARCEL: 657 (A-4) (F-11-084) STATUTORY TRUST ZONED: CAC-CLI ELECTION DISTRICT NO. 1 - HOWARD COUNTY, MARYLAND 10 E. Baltimore St. Suite 1600 CHIEF, DÉVELOPMENT ENGINEERING DIVISION Baltimore, MD 21202 (410) 347-7189 9-24-14 SEDIMENT CONTROL NOTES AND DETAILS BEI PROJECT NO. 2337 DRAFT:MCR/BFC | CHECK:CAM/BFC SCALE: AS SHOWN 4 of 8 SDP-14-043

DETAIL E-9-1 STANDARD INLET PROTECTION

DETAIL E-9-1 STANDARD INLET PROTECTION

soil by disking or other suitable means.

warranty of the producer.

according to the applicable laws and must bear the name, trade name or trademark and

when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus

Lime materials must be ground limestone (hydrated or burnt lime may be substituted except

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.

Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of

Where the subsoit is either highly acidic or composed of heavy clays, spread ground limestone

at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of

