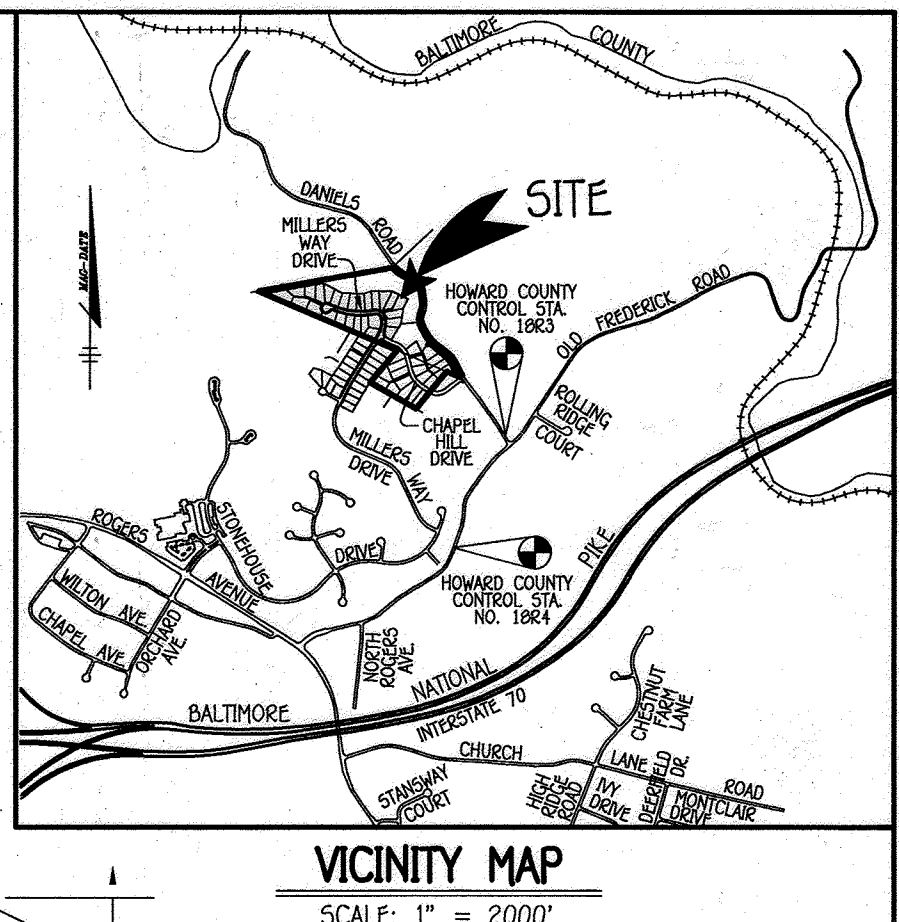
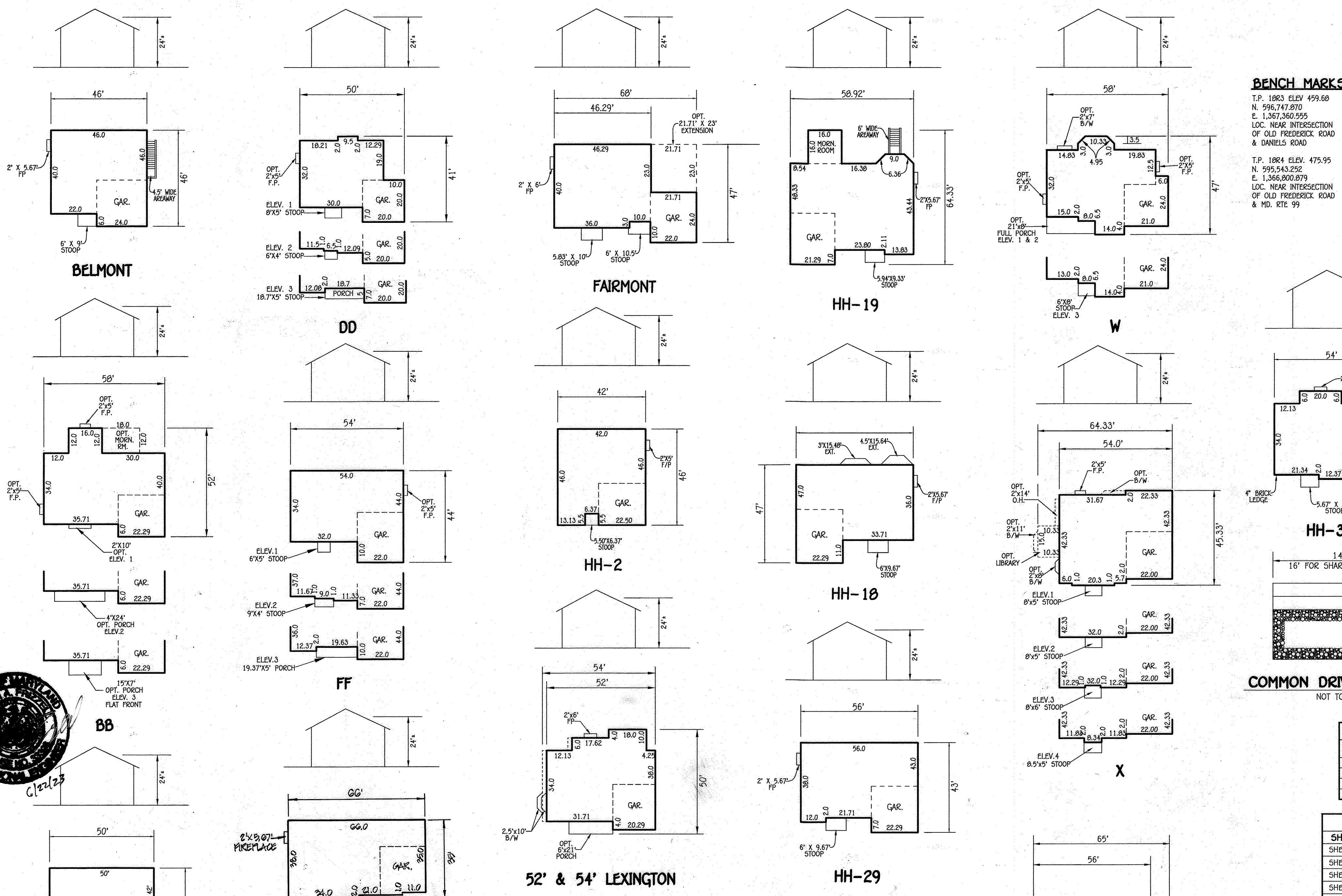


GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 PER 2/02/04 COMPREHENSIVE ZONING PLAN AND COMP LITE ZONING REGULATIONS EFFECTIVE 7/28/06.
- COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 1883 AND 1884. STATION NO. 1883 NORTH 596747.870 EAST 1367360.555 STATION NO. 1884 NORTH 595543.252 EAST 1366800.879
- THIS PLAN IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT FEBRUARY 24, 2005, BY ROBERT VOGEL AND ASSOCIATES.
- B.&L. DENOTES BUILDING RESTRICTION LINE.
- FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF FLAG OR PIPE STEM AND THE ROAD RIGHT-OF-WAY LINE ONLY AND NOT TO THE FLAG OR PIPE STEM LOT DRIVEWAY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DRIVEWAYS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
 - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
 - SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1 - 1/2" MINIMUM);
 - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S-LOADING);
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PAVING, 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE;
 - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- ALL LOT AREAS ARE MORE OR LESS (A).
- DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD '83 GRID MEASUREMENT.
- STORMWATER MANAGEMENT (SWM) FOR THIS SITE DEVELOPMENT PLAN (SDP) WAS DESIGNED USING THE MDC 2000 SWM CRITERIA FOR WHICH AN ADMINISTRATIVE WAIVER (AA) HAS BEEN SUBMITTED FOR GRANDFATHERING UNDER THOSE CRITERIA. JUSTIFICATION FOR THIS REQUEST IS BASED UPON THE FACT THAT PROJECT RECEIVED APPROVAL UNDER F-06-050 AND THE SAME METHODS, WITH MINOR CHANGES, ARE BEING USED UNDER THIS SDP. IT IS OUR UNDERSTANDING THAT SHOULD THIS AA BE APPROVED THAT THE GRANDFATHERING WILL EXPIRE ON MAY 4, 2013 IF THE DEVELOPER DOES NOT RECEIVE SDP APPROVAL AND CONTINUE TO CONSTRUCTION COMPLETION. IN ADDITION, THE AA WILL BE SO CONDITIONED THAT THE DEVELOPER WILL BE REQUIRED TO MAKE TIMELY CONSTRUCTION PROGRESS AND COMPLETE THE PROJECT BY MAY 4, 2013. SWM WILL BE PROVIDED ON THE INDIVIDUAL LOTS AS FOLLOWS:
 - LOTS 2 THRU 7 AND THE FRONT PORTIONS OF LOTS 16-25 WILL DRAIN TO WET EXTENSION POND NO. 1 PREVIOUSLY CONSTRUCTED UNDER F-06-050.
 - LOTS 8 THRU 10 HAVE NO CHANNEL PROTECTION VOLUME REQUIREMENTS AND WATER QUALITY VOLUME IS TO BE PROVIDED USING THE SHEET FLOW TO BUFFER CREDIT WITH LEVEL SPREADERS. IN ADDITION, THE PROPOSED PRIVATE USE-IN COMMON DRIVEWAY WILL HAVE A 2-FOOT WIDE SWALE THAT WILL PROVIDE PART OF THE OVERALL PROJECT GROUNDWATER RECHARGE VOLUME REQUIREMENT.
 - LOTS 11 THRU 15 AND THE REAR PORTIONS OF LOTS 16 THRU 23 HAVE THE SAME REQUIREMENTS AS LOTS 8 THRU 10. WHERE APPLICABLE, ALL OF THE SWM PRACTICES ON THE INDIVIDUAL LOTS WILL BE PRIVATELY OWNED AND MAINTAINED UNDER INDIVIDUAL DECLARATIONS OF COVENANTS.
- TRAFFIC STUDY WAS PREPARED BY THE TRAFFIC GROUP DATED SEPTEMBER, 2000 AND WAS APPROVED UNDER SP-01-06. NO COMMERCE EXISTS ON THIS SITE BASED ON A VISUAL SITE VISIT AND BASED ON AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- WETLAND AND STREAM DELINEATION WAS TAKEN FROM REPORTS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS, INC. DATED DECEMBER, 1999 AND VOGEL & ASSOCIATES DATED NOVEMBER, 2000 AND WAS APPROVED UNDER SP-01-06.
- DANIELS ROAD IS A SCENIC ROAD. NO LANDSCAPING SHALL BE PLACED ALONG DANIELS ROAD WHICH WILL OBSTRUCT SIGHT LINES FROM THE INTERSECTION OF DANIELS ROAD AND THE FUTURE RIGHT-OF-WAY.
- PRELIMINARY FOREST STAND AND FORESTED FOREST CONSERVATION PLAN WAS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS, INC. DATED JANUARY, 2000 AND VOGEL & ASSOCIATES, INC. DATED NOVEMBER, 2000 AND WAS APPROVED UNDER SP-01-06.
- THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- THE FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION WILL BE FULFILLED BY PROVIDING 3.87 ACRES OF ON-SITE FOREST RETENTION, 1.31 OF ON-SITE PLANTING AND THE BALANCE OF 2.48 ACRES OF REFORESTATION OBLIGATION WILL BE PROVIDED IN AN OFF-SITE FOREST CONSERVATION EASEMENT ON "SOVEREIGN PROPERTY, TAX MAP 29, PARCEL 19, THE SURETY AMOUNT FOR THE ON-SITE FORESTATION OBLIGATION IS \$1.31 AC. PLANTING @ \$0.50/SQ.FT. = \$0.6575 AND RETENTION OF 3.87 AC. @ \$0.20/SQ.FT. = \$0.774. THE SURETY AMOUNT FOR THE OFF-SITE FORESTATION OBLIGATION IS 2.48 AC. PLANTING @ \$0.50/SQ.FT. = \$1.24. THE TOTAL FORESTATION SURETY AMOUNT FOR THE REQUIRED 7.66 AC. IS \$116,261.64, PER F-06-050.
- LANDSCAPING FOR THESE LOTS 2 THRU 25 WAS PROVIDED UNDER F-06-050 IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- A LANDSCAPE SURETY FOR 83 SHADE TREES AND 30 EVERGREEN TREES IN THE AMOUNT OF \$30,600.00 IS PROVIDED AS PART OF THE DEVELOPER'S AGREEMENT, PER F-06-050.
- OPEN SPACE LOTS 45 AND 46 SHOWN ON THIS PLAN ARE HEREBY DEDICATED TO A HOMEOWNER'S ASSOCIATION FOR THE RESIDENTS OF THIS SUBDIVISION AND THE RECORDING REFERENCES OF THE ARTICLES OF INCORPORATION FOR THE HOA WAS RECORDED WITH THE STATE DEPARTMENT OF ASSESSMENTS AND TAXATION ON 10/25/06 AS RECEIPT NO. 011591261.
- SINCE THIS SUBDIVISION HAS A SIGNATURE APPROVED PRELIMINARY EQUIVALENT SKETCH PLAN SP-01-06, SIGNED ON 6-25-01, THIS SUBDIVISION IS GRANDFATHERED TO THE FOURTH EDITION OF THE SUBDIVISION 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 AND GRADING PERMITS.
- NO 100 YEAR FLOOD PLAN EXISTS ON SITE.
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS: SP-01-06, F-84-195, F-06-050, F-88-267, SGP-09-038, S-00-07, W & S CONT. NO. 14-4307-0.
- WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.1228 OF THE HOWARD COUNTY CODE.
- PUBLIC WATER AND SEWAGE ALLOCATIONS WILL BE GRANTED AT TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- OPEN SPACE LOTS 44 AND 45 SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.
- OPEN SPACE LOTS 46 AND 47 SHALL BE OWNED AND MAINTAINED BY HOWARD COUNTY, MARYLAND.
- STORMWATER MANAGEMENT FACILITY LOCATED ON OPEN SPACE LOT 46 SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOA.
- APPROVAL OF A SITE DEVELOPMENT PLAN IS REQUIRED FOR THE DEVELOPMENT OF ALL RESIDENTIAL LOTS WITHIN THIS SUBDIVISION PRIOR TO ISSUANCE OF ANY GRADING OR BUILDING PERMITS FOR NEW HOUSE CONSTRUCTION IN ACCORDANCE WITH SECTION 16.155 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- THE USE-IN-COMMON DRIVEWAY MAINTENANCE AGREEMENTS FOR LOTS 8 THRU 12, HAVE BEEN RECORDED IN THE HOWARD COUNTY LAND RECORDS OFFICE WITH RECORDING OF PLAT NUMBERS 19804 THRU 19828.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS OF THEIR BUFFERS AND THE FOREST CONSERVATION EASEMENTS, EXCEPT AS PERMITTED AS AN ESSENTIAL DISTURBANCE FOR UPGRADING IMPROVEMENTS TO THE EXISTING POND FACILITY PER SOIL CONSERVATION DISTRICT AND DPZ IN ACCORDANCE WITH SECTION 16.116(C) OF THE SUBDIVISION REGULATIONS UNDER SP-01-06.
- THE PROPOSED DISTURBANCE TO THE 25% OR GREATER STEEP SLOPES AREA WITHIN LOTS 24 AND 25 HAS BEEN DETERMINED NECESSARY BY DPZ FOR THE CONSTRUCTION OF THE MILLER'S WAY DRIVE EXTENSION IN ACCORDANCE WITH SECTION 16.116(C) OF THE SUBDIVISION REGULATIONS, UNDER SP-01-06.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURES AND POLES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME II, SECTION 5.5.A. A MINIMUM OF 20 FEET SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- A PRIVATE RANGE OF ADDRESS SIGN SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATE. A PRIVATE ROAD STREET NAME SIGN SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATES.
- TRAFFIC CONTROL DEVICES: A) THE R1-1 (STOP) SIGNS AND THE STREET NAME SIGN (SNS) ASSEMBLIES FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED. B) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE 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 (MUTCD). 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 THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- 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 WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TOPOGRAPHIC INFORMATION ESTABLISHED AT TWO FOOT INTERVALS BASED ON AERIAL TOPOGRAPHY PREPARED BY AIR SURVEY CORPORATION DATED APRIL, 2000.
- EXISTING UTILITIES SHOWN HEREON ARE TAKEN FROM CURRENT HOWARD COUNTY CONTRACT DRAWINGS.
 - EXISTING WATER CONTRACT NO. 14-4307-0 DRAINAGE AREA: PATAPSCO
 - EXISTING SEWER CONTRACT NO. 14-4307-0 DRAINAGE AREA: PATAPSCO
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SIC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- Landscaping is provided in accordance with Section 16.124 of the Howard County Code and Landscape Manual. Financial Surety in the amount of \$1350.00 for 3 shade trees and 3 evergreen trees shall be posted at the time of issuance of the Builder's Grading Permit for Lot 2.



BENCH MARKS

T.P. 1883 ELEV. 459.68
N. 596.747.870
E. 1,367,360.555
LOC. NEAR INTERSECTION
OF OLD FREDERICK ROAD
& DANIELS ROAD

T.P. 1884 ELEV. 475.95
N. 595,543.252
E. 1,366,800.879
LOC. NEAR INTERSECTION
OF OLD FREDERICK ROAD
& NO. 87E 99

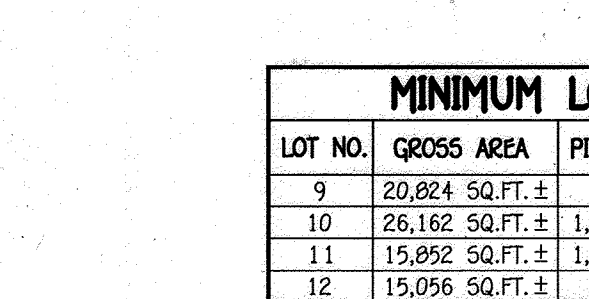
VICINITY MAP

SCALE: 1" = 2000'

ADDRESS CHART

LOT NO.	STREET ADDRESS
2	2845 MILLERS WAY DRIVE
3	2855 MILLERS WAY DRIVE
4	2865 MILLERS WAY DRIVE
5	2875 MILLERS WAY DRIVE
6	2885 MILLERS WAY DRIVE
7	2895 MILLERS WAY DRIVE
8	2905 MILLERS WAY DRIVE
9	2915 MILLERS WAY DRIVE
10	2925 MILLERS WAY DRIVE
11	2935 MILLERS WAY DRIVE
12	2945 MILLERS WAY DRIVE
13	2955 MILLERS WAY DRIVE
14	2965 MILLERS WAY DRIVE
15	2975 MILLERS WAY DRIVE
16	2985 MILLERS WAY DRIVE
17	2995 MILLERS WAY DRIVE
18	3005 MILLERS WAY DRIVE
19	3015 MILLERS WAY DRIVE
20	3025 MILLERS WAY DRIVE
21	3035 MILLERS WAY DRIVE
22	3045 MILLERS WAY DRIVE
23	3055 MILLERS WAY DRIVE
24	3065 MILLERS WAY DRIVE
25	3075 MILLERS WAY DRIVE

COMMON DRIVEWAY DETAIL



MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
9	20,824 SQ.FT. ±	793 SQ.FT. ±	20,032 SQ.FT. ±
10	26,182 SQ.FT. ±	1,074 SQ.FT. ±	24,288 SQ.FT. ±
11	15,892 SQ.FT. ±	1,207 SQ.FT. ±	14,644 SQ.FT. ±
12	15,056 SQ.FT. ±	940 SQ.FT. ±	14,516 SQ.FT. ±

INDEX CHART

SHEET	TITLE	DESCRIPTION
SHEET 1	TITLE SHEET, HOUSE TYPES, TEMPLATES & NOTES	
SHEET 2	SITE DEVELOPMENT PLAN, LOTS 2,3,4 & 10 THRU 25	
SHEET 3	SITE DEVELOPMENT PLAN, LOTS 5 THRU 17	
SHEET 4	SEDIMENT/EROSION CONTROL PLAN, LOTS 2,3,4 & 10 THRU 25	
SHEET 5	SEDIMENT/EROSION CONTROL PLAN, LOTS 5 THRU 17	
SHEET 6	SEDIMENT/EROSION CONTROL NOTES & DETAILS AND STORMWATER MANAGEMENT NOTES & DETAILS	
SHEET 7	RETAINING WALL PLAN, PROFILE & DETAILS, LOT 21	

SITE ANALYSIS DATA CHART

- TOTAL PROJECT AREA: 8.947 ACRES OR 389,731 SQUARE FEET.
- AREA OF SUBDIVISION: 8.947 ACRES OR 389,731 SQUARE FEET.
- LIMITS OF DISTURBANCE: 6.423 ACRES OR 279,750 SQUARE FEET.
- PERMITTED ZONING DESIGNATION: R-20.
- PROPOSED USES FOR SITE: RESIDENTIAL-24 SFD UNITS.
- APPLICABLE DPZ FILE REFERENCES: F-84-195, F-88-267, F-06-050, S-00-07, SP-01-06, SGP-09-038 AND W & S (CONTRACT NO. 14-4307-0).

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 9753, EXPIRATION DATE: 2/28/14.

Earl D. Collins 1-29-13
EARL D. COLLINS DATE

BUILDER/DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT THE REQUIRED LANDSCAPING WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

B. James Greenfield 1-29-13
B. JAMES GREENFIELD DATE

LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - -	PROPOSED CONTOUR 2' INTERVAL
•	SPOT ELEVATION
---	SUPER SILT FENCE
---	EARTH DICE
---	LIMIT OF DISTURBANCE
---	EXISTING STREET TREES TAKEN FROM F-06-50
---	PERIMETER TREES TAKEN FROM F-06-50

ENGINEER'S CERTIFICATE

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

Earl D. Collins 1-29-13
Signature of Engineer EARL D. COLLINS DATE

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

B. James Greenfield 1-29-13
Signature of Developer B. JAMES GREENFIELD DATE

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

John K. Korman 2/5/13
Howard SCD DATE

OWNER/DEVELOPER

MID-ATLANTIC LAND DEVELOPMENT COMPANY
C/O B. JAMES GREENFIELD
6420 AUTUMN SKY WAY
COLUMBIA, MARYLAND 21044
410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kate Spaulden 3/04/13
Chief, Division of Land Development DATE

James J. Sanchez 2/21/13
Chief, Department of Planning and Zoning DATE

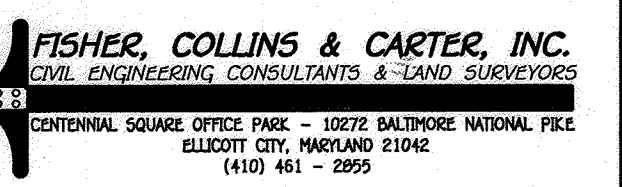
James J. Sanchez 3-12-13
Director - Department of Planning and Zoning DATE

PROJECT	SECTION	LOTS NO.
HOLLIFIELD HILLS	N/A	2 THRU 25
PLAT	BLOCK NO.	ZONE
19804-19808	6 & 12	R-20
TAX/ZONE	ELEC. DIST.	CENSUS TR.
17	SECOND	602100
WATER CODE	SEWER CODE	
F-04	1450000	

SITE DEVELOPMENT PLAN

SINGLE FAMILY DETACHED
HOLLIFIELD HILLS
LOTS 2 THRU 25
ZONED: R-20

TAX MAP NO.: 17 PARCEL NO'S.: 42 & 43 GRID NO'S.: 6 & 12
SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: DECEMBER, 2012

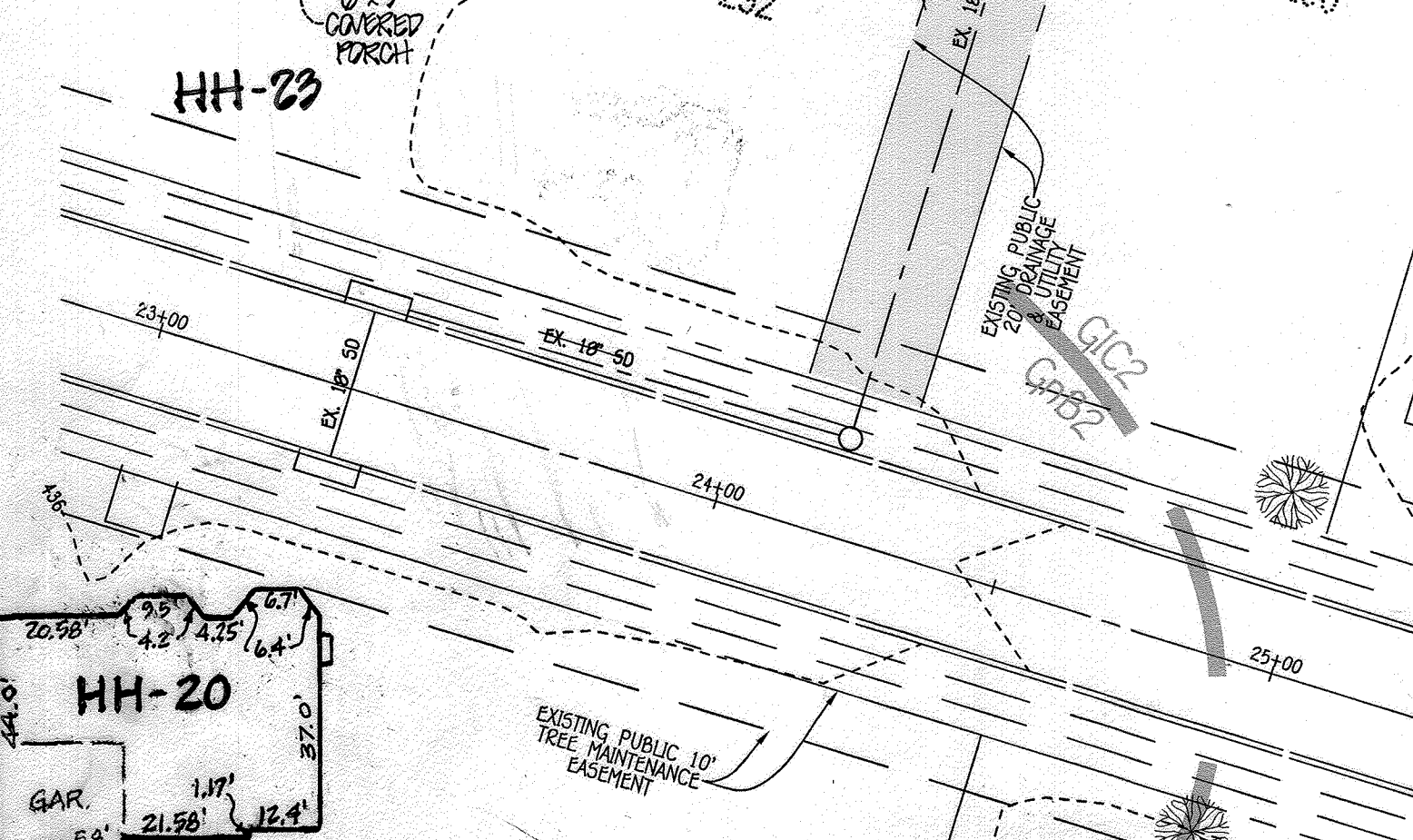
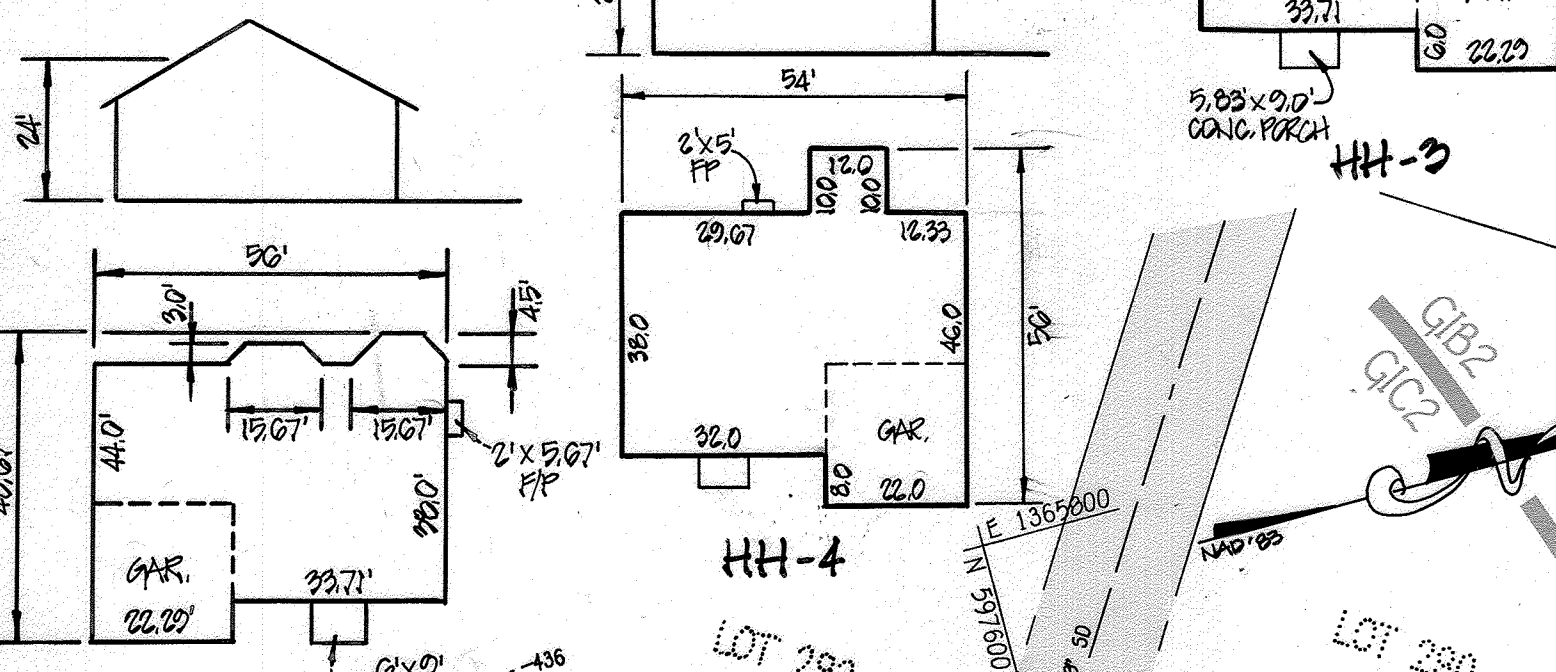


CENTRAL SOURCE OFFICE: PARK - 10272 BALTIMORE NATIONAL PIKE
BLODGETT CITY, MARYLAND 21042
(410) 461-2995

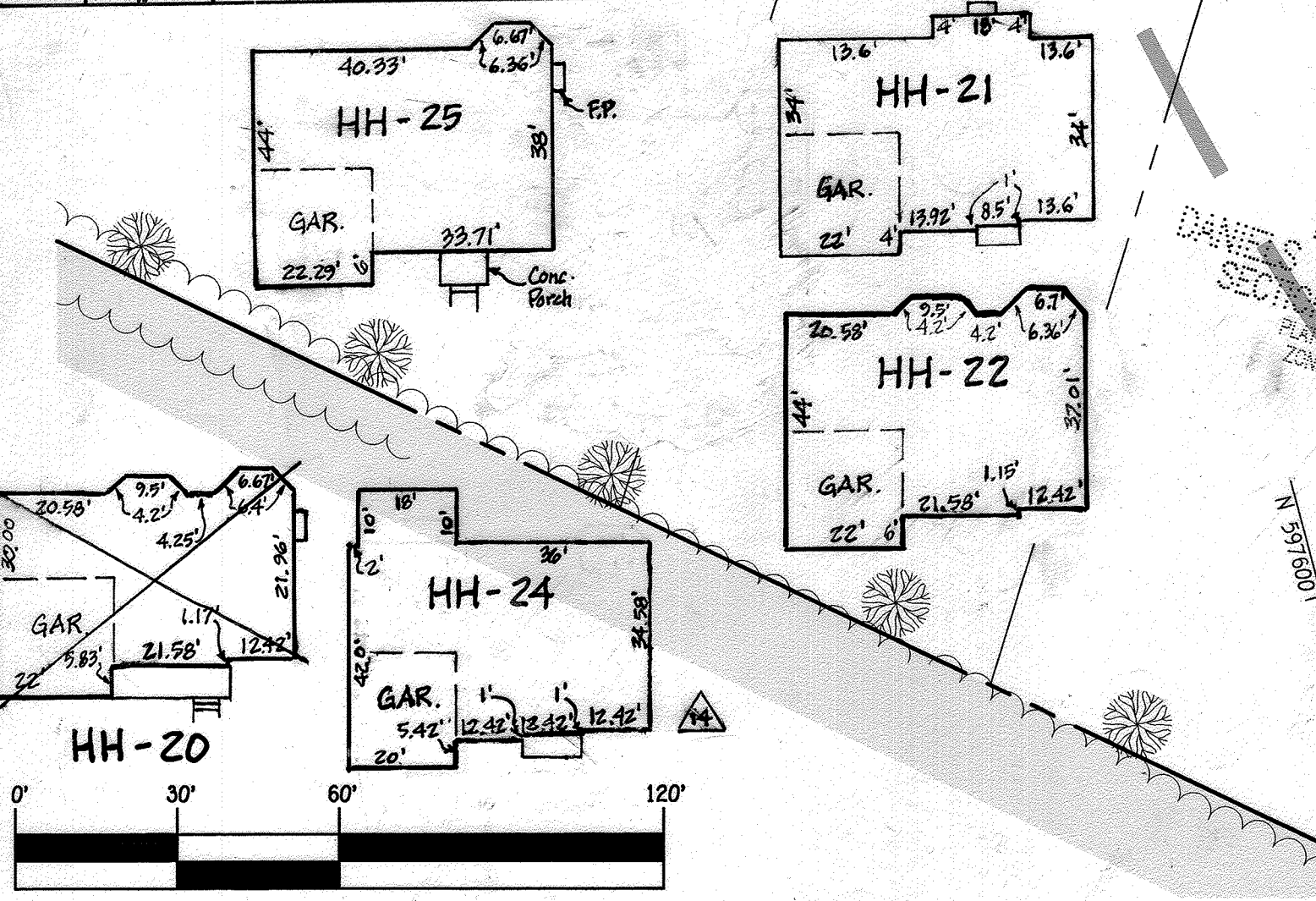


SOIL	NAME	CLASS
GIB2	GLENNELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
GIC2	GLENNELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	C
GID2	GLENNELG LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED	C
QNS2	QUANVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MH3	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	B
MH4	MANOR VERY STONY LOAM, 25 TO 60 PERCENT SLOPES	B
MH0	MANOR VERY STONY LOAM, 3 TO 25 PERCENT SLOPES	B
MH2	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
MH8	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B

NOTES:
 * HYDRIC SOILS AND/OR CONTAINS HYDRIC INCLUSIONS
 ** MAY CONTAIN HYDRIC INCLUSIONS
 † GENERALLY ONLY WITHIN 100-YEAR FLOODPLAIN AREAS



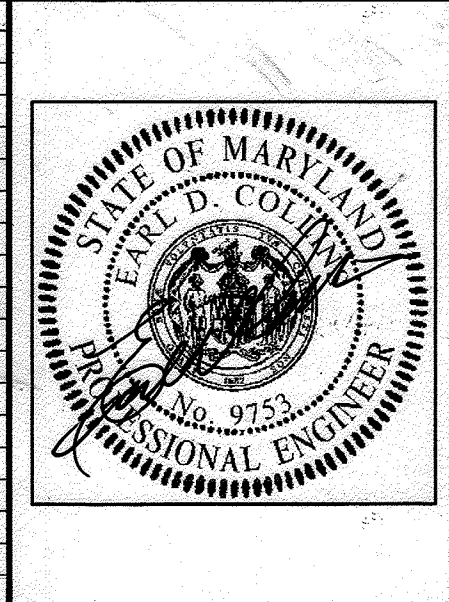
Qty.	Key	Name	Size
3		Quercus coccinea / Scarlet Oak	2 1/2" - 3 Cal.
3		Cupressocyparis leylandi / Leyland Cypress	5'-6' Hgt.



SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE, P.O. BOX 1072, BALTIMORE, MARYLAND
 ELECTRIC CITY, PORTLAND 21042
 (410) 481-0252

NO.	REVISION	DATE
1	REV. LOT 21 ADDRESS WALL, REV. LEVEL SPREADS AND SHT. 7	6/22/13
2	REV. FINAL HOUSE HH-24 & GRADING FOR LOT 24	10/16/12
3	REV. LOTS 21 & 22 TO HH-21 & HH-22	05/12/12
4	REV. LOT 25 PER ABQUILT GRADING	04/27/12
5	REV. LOT 24 TO HH-24	03/01/12
6	REV. LOT 25 TO AN HH-25 HOUSE & REV. ASSOC. GRADING	07/10/12
7	REV. LOT 20 TO A NEW HH-20 HOUSE	08/27/12
8	REV. LOT 20 TO NEW HH-20 HOUSE & REVISE LEVEL SPREADS	03/09/12
9	REV. LOT 20 TO HH-20 & LEVEL SPREADS LOCATION	01/05/12
10	REV. HSE. & BLDG. FOR LOT 2 PER ABQUILT	10/12/11
11	REV. HSE. & BLDG. FOR LOT 3 FROM GAR. BOX TO HH-23	01/12/12
12	REV. HSE. & BLDG. FOR LOT 4 FROM GAR. BOX TO HH-4	01/02/12
13	REV. HSE. & BLDG. FOR LOT 23 FROM GAR. BOX TO HH-23	01/02/12
14	LOT 19, REVISED HOUSE TYPE TO FIT ON LOT	11/19/12
15	LOT 18, MOVED HOUSE BACK 7' PER CLIENT REQUEST	10/26/12



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

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. 9753, EXPIRATION DATE: 2/28/14.

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

Signature of Developer: B. JAMES GREENFIELD
 Date: 1-29-13

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kate Schuchman 3/04/13
 Chief, Division of Land Development Date

Paula Jones for Martha M. Murphy 2/27/13
 Chief, Engineering Division Date
 Director - Department of Planning and Zoning

PROJECT	SECTION	LOTS NO.
HOLLIFIELD HILLS	N/A	2 THRU 25

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
1988A-1988B	6 & 12	R-20	17	SECOND	602100

WATER CODE	SEWER CODE
F-04	1450000

SITE DEVELOPMENT PLAN
 SINGLE FAMILY DETACHED
 HOLLIFIELD HILLS
 LOTS 2 THRU 25
 ZONED: R-20

TAX MAP NO.: 17 PARCEL NO'S.: 42 & 43 GRID NO'S.: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012

SHEET 2 OF 7 50P-13-017



6/22/13



OPEN SPACE LOT 46

DELETE EXST. LEVEL SPREADER

LOD - 11.5 ACRES (4,923 SF)

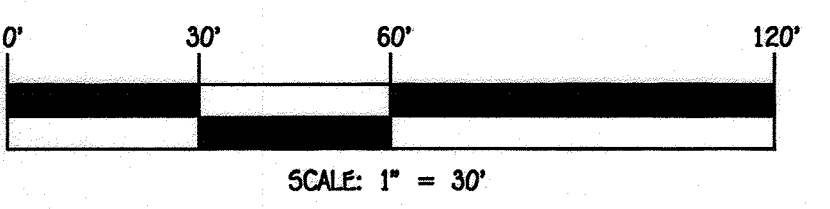
INSTALL NEW 24" W X 12" D LEVEL SPREADER. SEE DETAILS ON PG. 7.

INSTALL SUPER SILT FENCE ALONG BOTTOM OF LOD. SILT FENCE IS TO REMAIN IN PLACE THROUGHOUT DURATION OF PROJECT.

INSTALL SEGMENTAL RETAINING WALL. SEE DETAILS ON PG. 7.

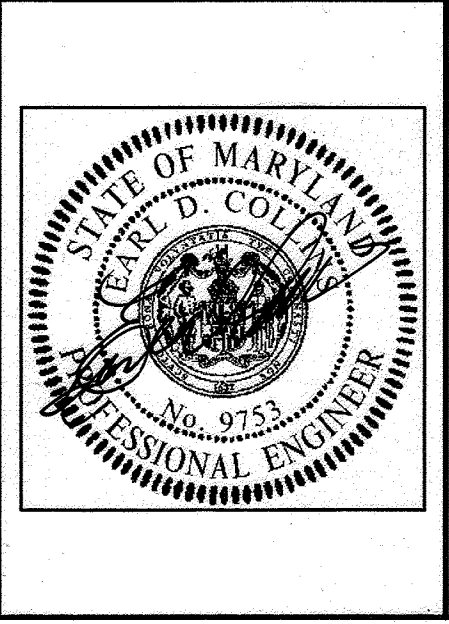
SLOPE FROM RESIDENCE TO BACK OF WALL. MINIMUM 2% SLOPE. FOR DETAILS GRADING SEE SPOT ELEVATIONS ON SHEETS 2 & SHEET 7.

DELETE EXST. LEVEL SPREADER



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTHORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2999

NO.	REVISION	DATE
1	REV. LOT 21. ADD R. WALL, REV. LEVEL SPDRS, ADD SH. 7	6/22/23



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

Signature of Engineer: *Earl D. Collins* 1-29-13 Date
 EARL D. COLLINS

DEVELOPER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *B. James Greenfield* 1-29-13 Date
 B. JAMES GREENFIELD

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *John L. Robinson* 2/5/13 Date
 JOHN L. ROBINSON
 HOWARD SCD

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: *Kate Schuler* 3/04/13 Date
 Chief, Division of Land Development

Signature: *John Robinson* 2/27/13 Date
 Chief, Development Engineering Division

Signature: *David Schuler* 2-10-13 Date
 Director - Department of Planning and Zoning

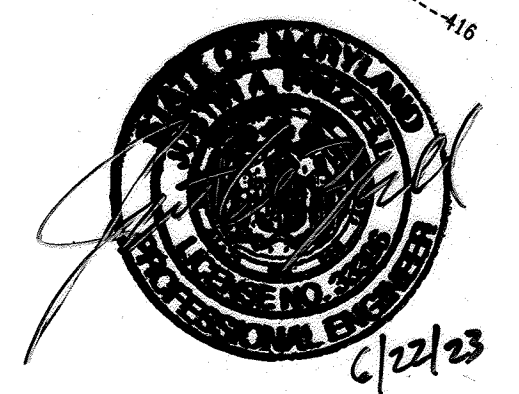
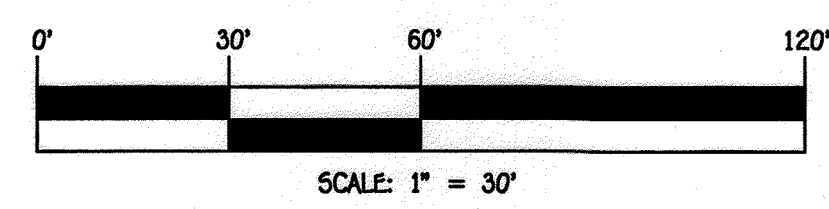
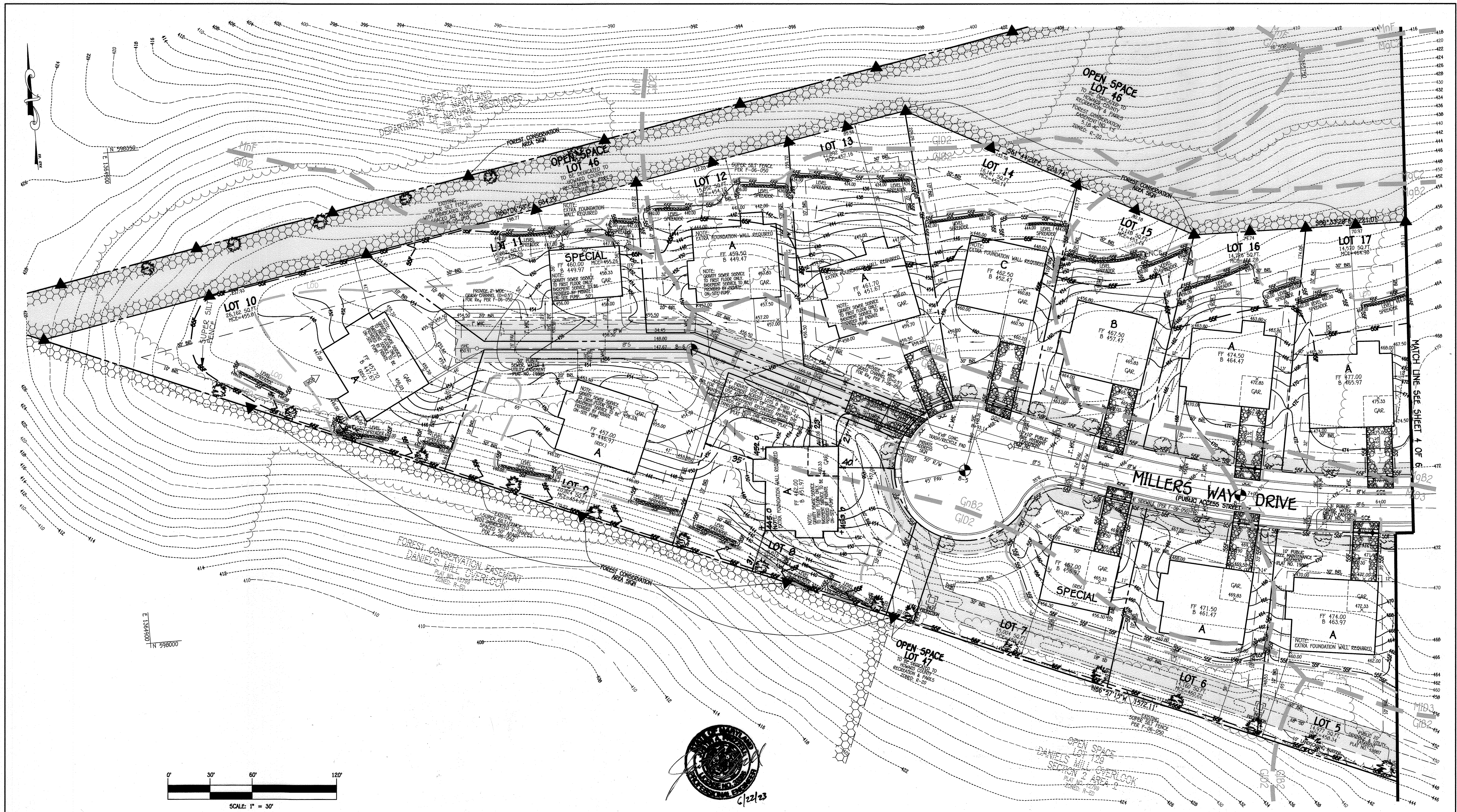
PROJECT	SECTION	LOTS NO.			
HOLLIFIELD HILLS	N/A	2 THRU 25			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19884-19888	6 & 12	R-20	17	SECOND	602100
WATER CODE	SEWER CODE				
F-04	1450000				

SEDIMENT/EROSION CONTROL PLAN

SINGLE FAMILY DETACHED
HOLLIFIELD HILLS
 LOTS 2 THRU 25
 ZONED: R-20

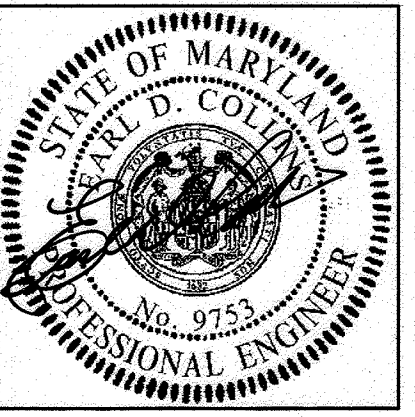
TAX MAP NO.: 17 PARCEL NO'S: 42 & 43 GRID NO'S: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012

SHEET 4 OF 7 **SOP-13-017**



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995

NO.	REV.	DESCRIPTION	DATE
1	REV. LOT 21, ADD R. WALL, REV. LEVEL SPDRS, ADD SHT. 7		6/22/13
2			
3			



ENGINEER'S CERTIFICATE
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer: *Earl D. Collins* Date: 1-29-13
 Earl D. COLLINS
 Professional Engineer

DEVELOPER'S CERTIFICATE
 "I/we certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *B. James Greenfield* Date: 1-29-13
 B. JAMES GREENFIELD

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John F. Kobuszka* Date: 2/5/13
 John F. KOBUSZKA
 Director

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Signature: *Kate Schuchman* Date: 3/04/13
 Chief, Division of Land Development

Signature: *John J. Dorman* Date: 2/27/13
 Chief, Engineering Division

Signature: *John J. Dorman & Maria McLaughlin* Date: 3-18-13
 Director - Department of Planning and Zoning

PROJECT	SECTION	LOTS NO.
HOLLIFIELD HILLS	N/A	2 THRU 25

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19804-19808	6 & 12	R-20	17	SECOND	602100

WATER CODE	SEWER CODE
F-04	1450000

SEDIMENT/EROSION CONTROL PLAN

SINGLE FAMILY DETACHED
HOLLIFIELD HILLS
 LOTS 2 THRU 25
 ZONED: R-20

TAX MAP NO.: 17 PARCEL NO'S.: 42 & 43 GRID NO'S.: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012

SHEET 5 OF 7 SDP-13-017

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

PURPOSE

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into temporary seeding, to quickly establish vegetative cover for short duration (0 up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary soil protection, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are roads, dams, cut and fill slopes and other areas of final grade, erosion-prone staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff. Infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

- Site Preparation**
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
- Soil Amendments (Fertilizer and Lime Specifications)**
 - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate regulatory authority. Fertilizers shall not be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
 - Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 90% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disk or other suitable means.
- Cleared Preparation**
 - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disk or other suitable means.

- Permanent Seeding**
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40% clay, but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loessites or loess deposits are to be stabilized, then a sandy soil (<30% silt plus clay) may be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by soils on site, additional topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Mix soil amendments into the top 3-5" of soil by disk or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and reseed the area for seed and application. Where site conditions will not permit normal seeding preparation, loosen surface soil with seedbedding by a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

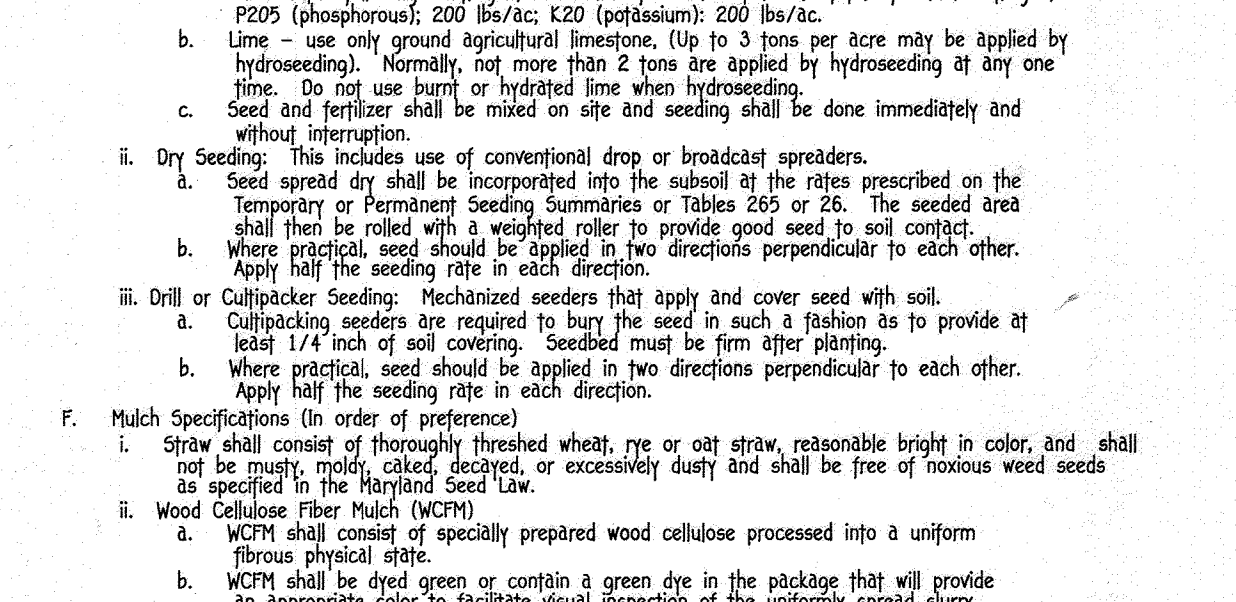
- Seed Specifications**
 - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. Seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.
 - Seed bags shall be made available to the inspector to verify type and rate of seed used.
 - Inoculant - The inoculant for treating legume seed shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. It is very important to keep inoculant cool as possible until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculant less effective.
- Methods of Seeding**
 - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeders, or a cultipacker seeder.
 - If fertilizer is being applied at the time of seeding, the application rates amounts will be as follows: nitrogen: maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous): 200 lbs./ac; K2O (potassium): 200 lbs./ac.
 - Lime - use only ground agricultural limestone, (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding: This includes use of conventional drop or broadcast spreaders.
 - Seed spreader shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
 - Where required, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
 - Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
 - Cultipacking devices are required to bury the seed and cover it as shallow as to provide at least 1/4" inch of soil covering. Seeded must be firm after planting.
 - Where required, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
- Mulch Specifications (in order of preference)**
 - Show shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be overly moist, soiled, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
 - WCM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical fibre.
 - WCM shall be dried green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
 - WCM materials shall contain no germination or growth inhibiting factors.
 - WCM materials shall 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 shall form a butter-like ground cover, on application, having the moisture absorption and retention properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCM material shall contain no elements or compounds at concentrations levels that will be phytotoxic.
 - WCM must conform to the following physical requirements: fiber length to approximately 1.0 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.5% maximum and water holding capacity of 90% minimum.
 - Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

- Incremental Stabilization - Cut Slopes**
 - All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
- Incremental Stabilization of Embankments - Fill Slopes**
 - Embankment shall be constructed in lifts as prescribed on the plans.
 - Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15' or when the grading operation ceases as prescribed on the plans.
 - At the end of each day, temporary berms and pipe slope lines should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping device.
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope slip fence on low side of fill as shown in Figure 5, unless other methods shown on the plans.
 - Place Phase 1 embankment, dress and stabilize.
 - Place Phase 2 embankment, dress and stabilize.
 - Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT	7 DAYS
2. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN	7 DAYS
3. CLEAR AND GRUB TO LIMITS OF DISTURBANCE	4 DAYS
4. INSTALL TEMPORARY SEEDING	2 DAYS
5. CONSTRUCT SEDIMENT AND EROSION CONTROL DEVICES AND LANDSCAPE	60 DAYS
6. FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE	14 DAYS
7. REMOVE EROSION CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.	7 DAYS



LEVEL SPREADER - NOT TO SCALE

When using a rigid lip it shall be protected with an erosion control blanket to prevent erosion and allow the vegetation to become established. The blanket shall be a minimum of 4 feet wide extending a minimum of 1 foot downstream from the lip. The blanket shall be secured with heavy-duty staples and the downstream and upstream edges shall be buried at least 6 inches deep in a vertical trench.

When using a rigid lip it shall be entrenched at least 4 inches below existing ground and securely anchored to prevent displacement. An apron of Class 1 rip-rap shall be placed to the top of the rigid lip and extend downstream at least 3 feet. A filter fabric shall be placed under the coarse aggregate.

Immediately after level spreader construction, seed and mulch the entire disturbed area of the spreader in accordance with the Standards and Specifications for Vegetative Stabilization.

The level spreader is a relatively low-cost structure.

1. Disperse impervious surface runoff uniformly to a filter strip or
2. Release small volumes of concentrated flow from diversions when conditions are suitable.

To accomplish these purposes, particular care must be taken to construct the spreader lip completely level. Any depressions in the lip will concentrate the flow, resulting in a loss of pollutant filtering effectiveness and erosion. Evaluate the outlet system to be sure that flow does not concentrate below the outlet.

For filter strip applications, the determination of whether a level spreader is needed should be based on how the runoff is entering the filter strip. If the runoff is concentrated by curb cuts, and particularly if a large area of impervious surface drains to one point, a level spreader is essential to achieve effective pollutant reduction in the filter strip. A level spreader also is important if the filter strip is relatively steep in order to avoid erosion from concentrated runoff discharge. If the runoff is evenly distributed over the width of the impervious surface (e.g., a curbside, even-aged road or parking lot), a level spreader may not be necessary.

When the level spreader is used as an outlet for temporary or permanent diversions and diversion dikes, runoff containing high sediment loads must be treated in an approved sediment trapping device.

OPERATION AND MAINTENANCE

Inspect level spreader after every rainfall until vegetation is established, and promptly make needed repairs. After the area has been stabilized, make periodic inspections and maintain vegetation in a healthy, vigorous condition.

Verify that the level spreader is distributing flow evenly. If problems are noted, make appropriate modifications to ensure even flow distribution.

SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments - Apply 500 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).

Seeding - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-weathered straw mulch and seed as soon as possible in the spring, or use seed.

Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. on slopes (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. on 8 gal. per 1000 sq.ft. for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments - In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 500 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 0-0-0 ureamorphous fertilizer (9 lbs. per 1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, seed with 2 tons per acre of well-weathered straw mulch and seed as soon as possible in the spring.

2) Use seed.

3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well-weathered straw.

Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. on slopes (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. on 8 gal. per 1000 sq.ft. for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

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Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEEDING NOTES

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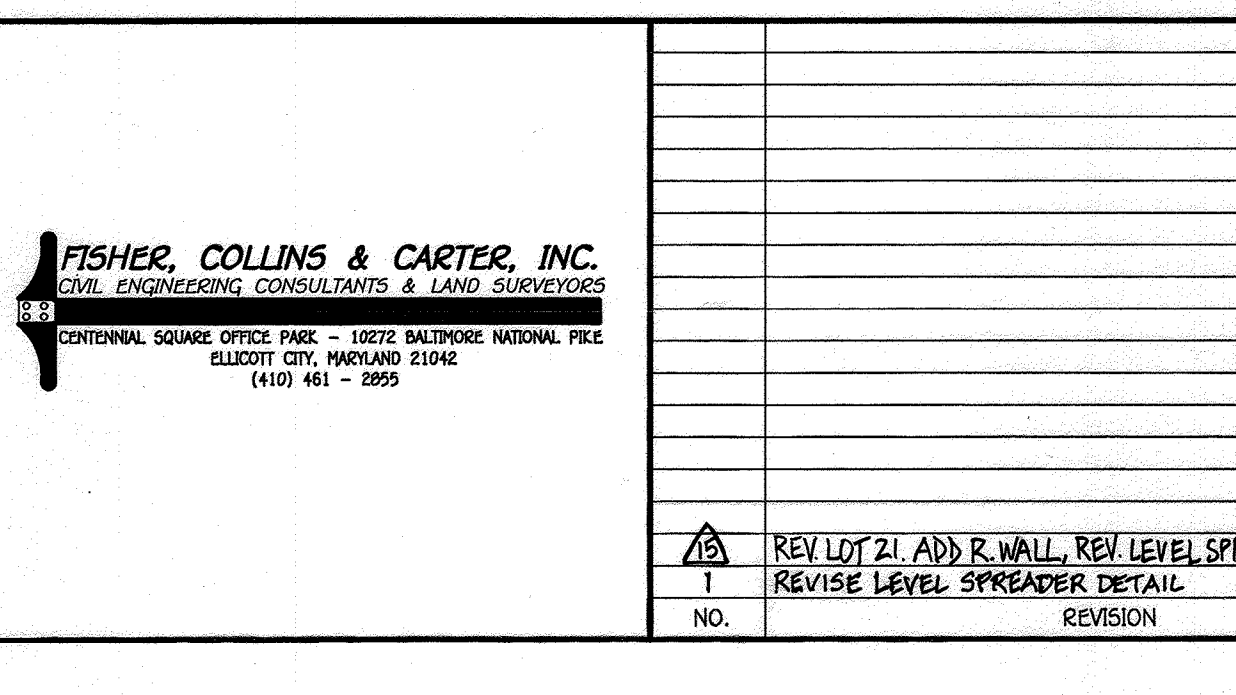
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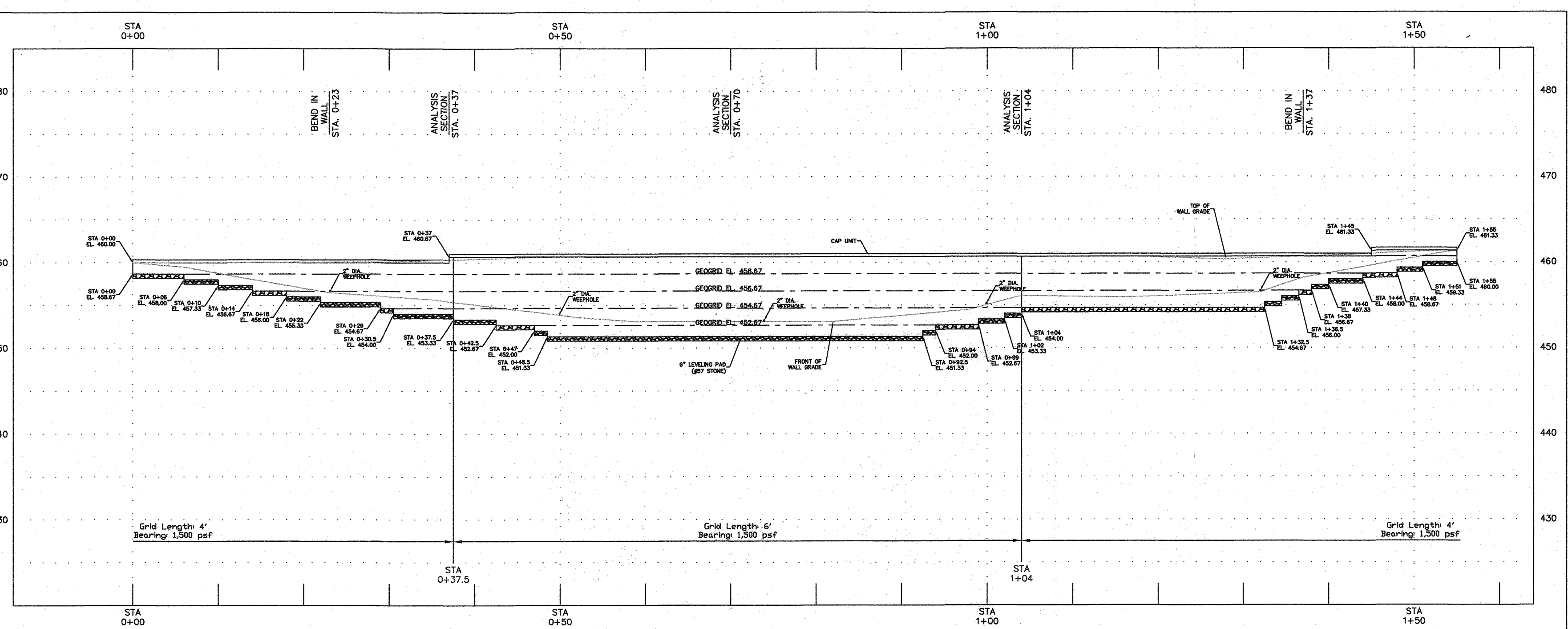
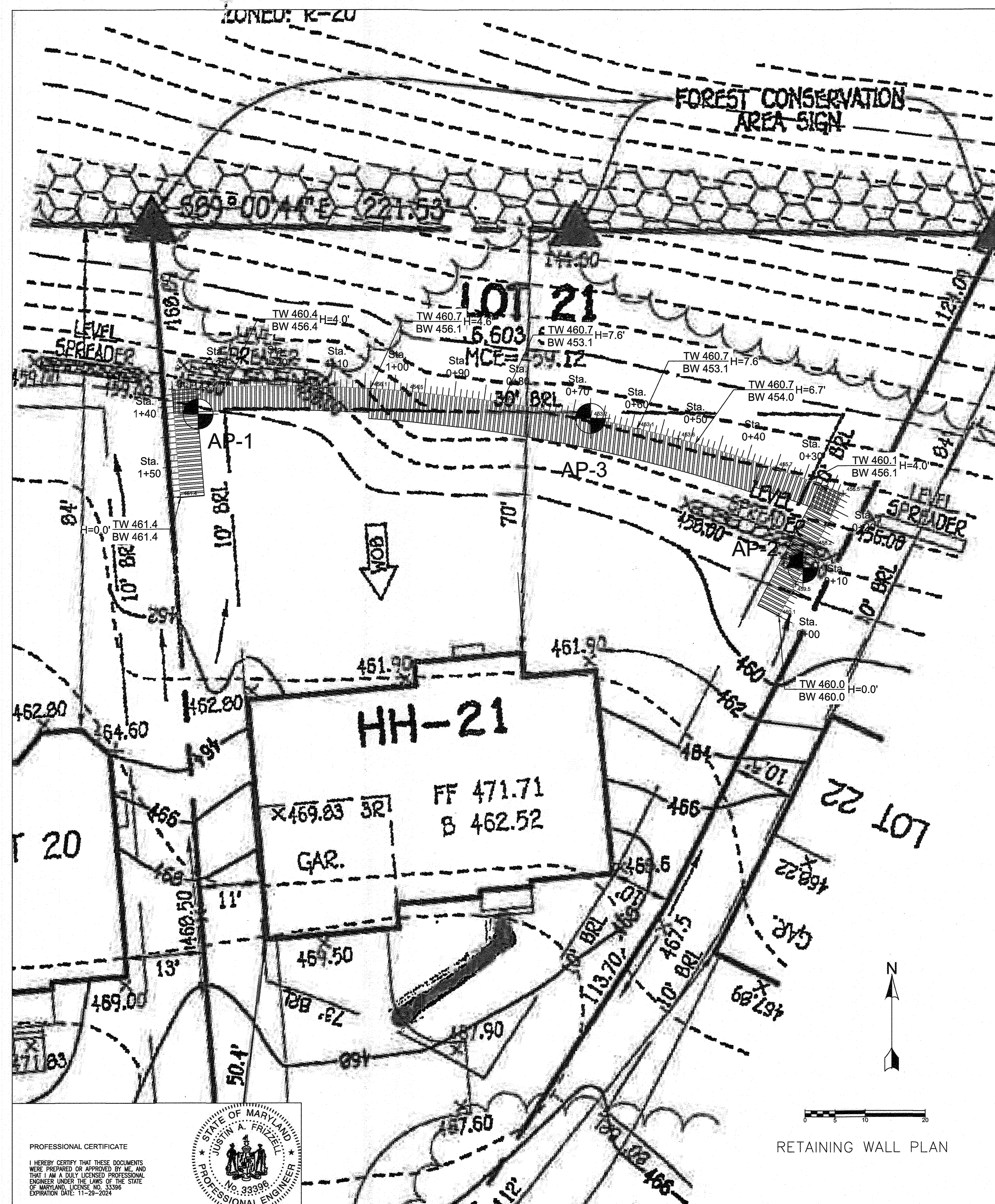
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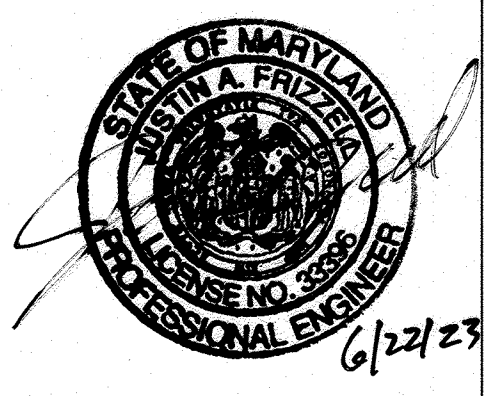
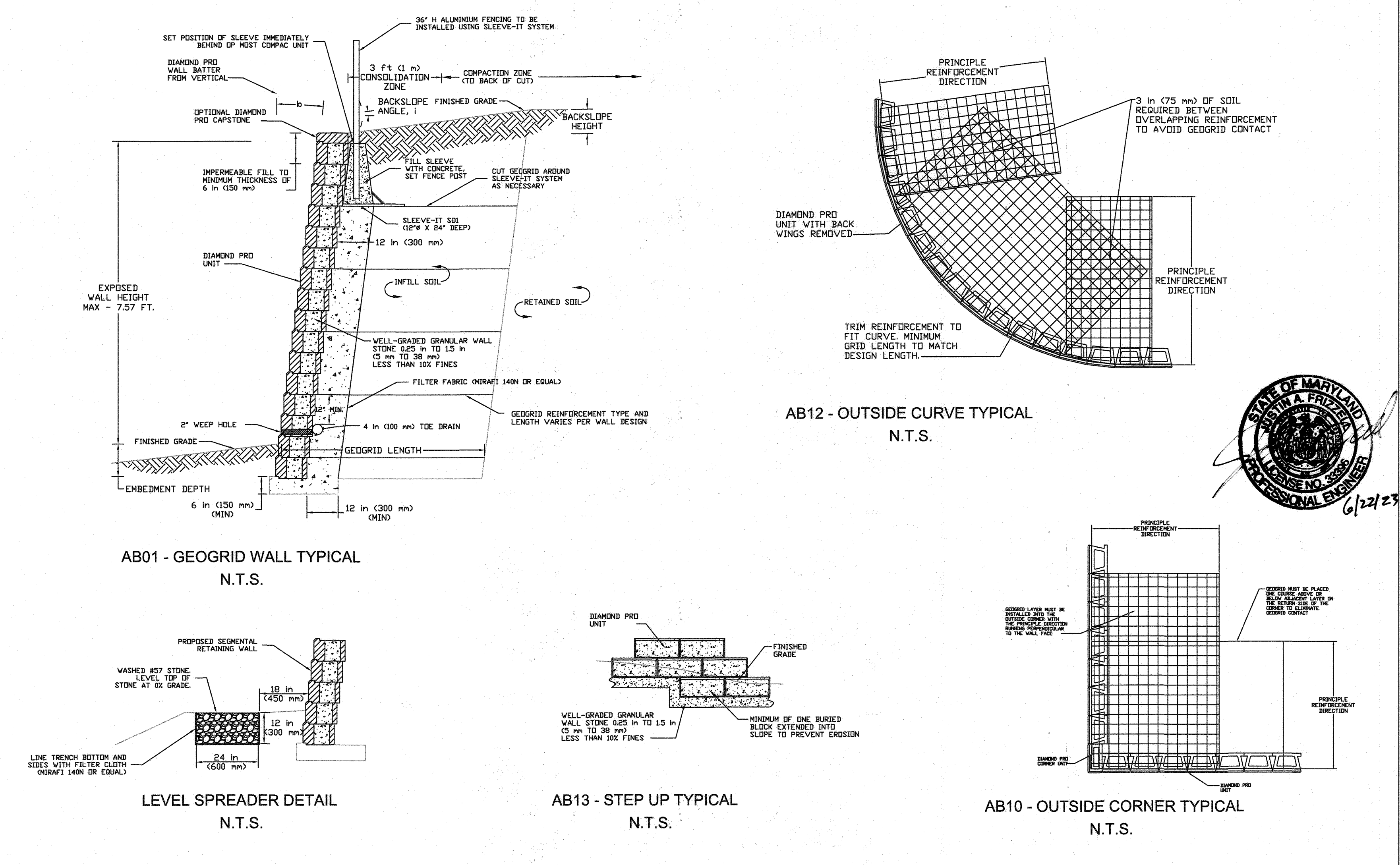
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Seedbed Preparation



RETAINING WALL PROFILE
 GRID TYPE - MIRAFI 3XT OR EQUIV. GRID LENGTH - AS SHOWN



PROFESSIONAL CERTIFICATE
 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. 33398 EXPIRATION DATE: 11-29-2024

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division NY 8/14/23
 Chief, Division of Land Development AC 8/18/23
 Director 8/22/23

No.	Date	Revision	By

Notes:
 Retaining Wall shall only be constructed under the observation of a Registered Professional Engineer and a certified (NICET, WACEL, or equivalent) soils technician. The required bearing pressure beneath the footing of the wall shall be verified in the field by a certified soils technician using the Dynamic Cone Penetrometer test (ASTM STP-399). Testing documentation must be provided to the Howard County Inspector prior to the start of construction. The suitability of the fill material shall be confirmed by the on-site soils technician. Each 8-inch fill must be compacted to a minimum of 95% Standard Proctor Density, and the testing report should be made available to the Howard County Inspector upon completion of construction.

OWNER: LANDART ASSOCIATES, LLC
 DEVELOPER: PO BOX 921 PASADENA, MD 21123

HARDIN-KIGHT ASSOCIATES, INC.
 GEOTECHNICAL CONSULTANTS
 7524 WB&A ROAD, SUITE 100
 GLEN BURNIE, MARYLAND
 (410) 553-0802
 (410) 553-0808

Designed By: JFD
 Checked By: JAF
 Scale: 1" = 10'

Title: Retaining Wall Plan, Profile, and Details
 Purpose: REVISED SITE DEVELOPMENT PLAN, THIS SHEET HAS BEEN ADDED TO SHOW A PROPOSED SEGMENTAL RETAINING WALL AND REVISED LEVEL SPREADERS FOR LOT 21.
 Project: BUENTE RETAINING WALL
 HOLLIFIELD HILLS
 TAX MAP #25 TAX MAP PARCEL #64
 2nd ELECTION DISTRICT
 2856 MILLERS WAY DRIVE HOWARD COUNTY, MARYLAND

Date: 6/22/2023
 Project No: 22159
 Drawing No: 7 of 7
 SDP-13-017