

GENERAL NOTES:

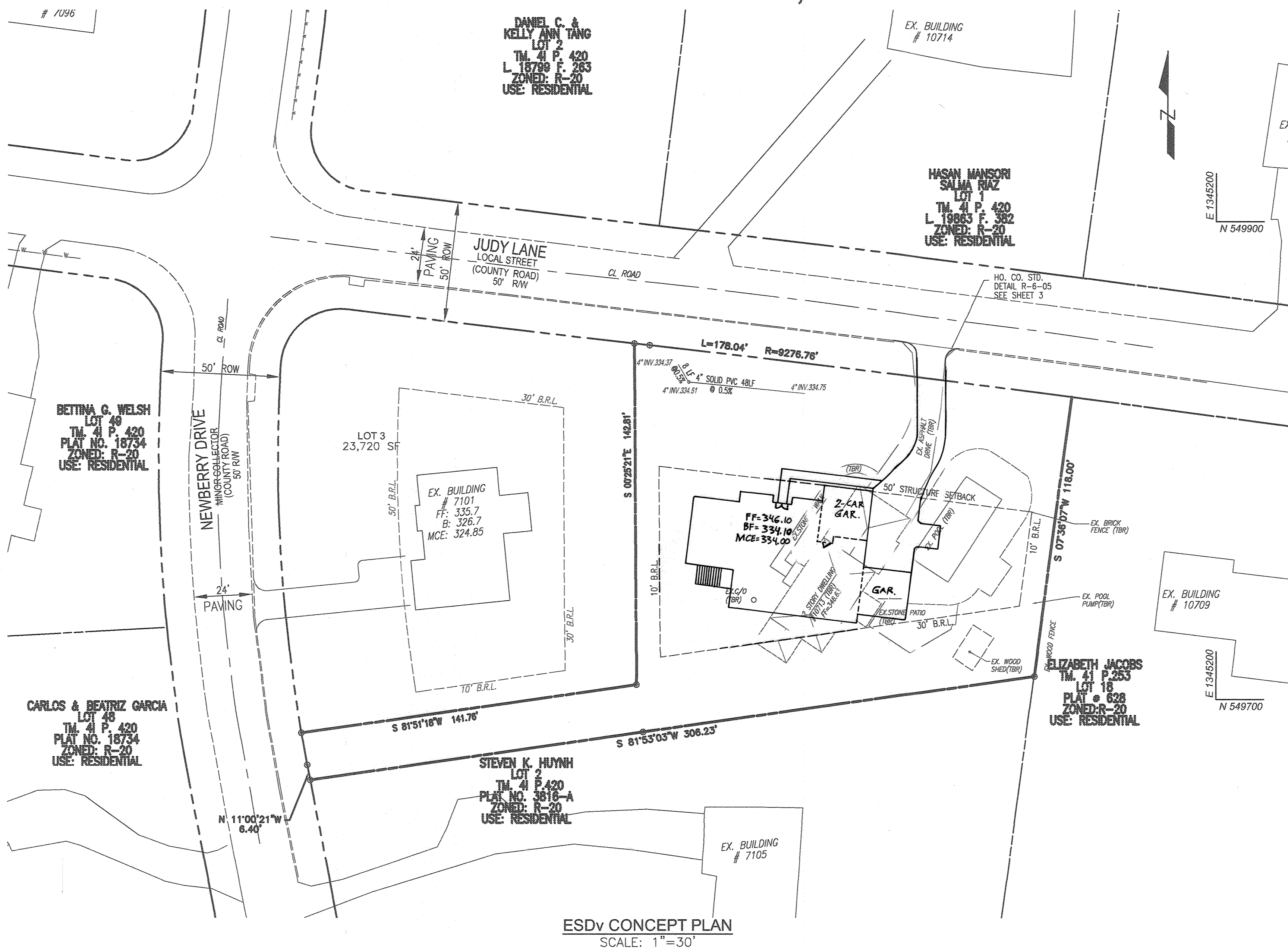
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS ALTERNATIVE COMPLIANCE REQUESTS HAVE BEEN APPROVED.
- THE SUBJECT PROPERTY IS ZONED R-20 IN ACCORDANCE WITH THE 10/06/2013 COMPREHENSIVE ZONING PLAN AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/02/2013 PER COUNCIL BILL 75-2003.
- THE EXISTING ON-SITE TOPOGRAPHY IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY FREDERICK WARD ASSOCIATES, PERFORMED IN JULY, 2002.
- OTSIIE TOPOGRAPHY IS FROM BOUNDARY SURVEY BY FREDERICK WARD ASSOCIATES, DATED JULY, 2002.
- BOUNDARY INFORMATION IS FROM BOUNDARY SURVEY BY FREDERICK WARD ASSOCIATES, DATED JULY, 2002.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING 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 DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS 0057 AND 41C2 WERE USED FOR THIS PROJECT.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, ALTERNATIVE COMPLIANCE, OR BUILDING AND GRADING PERMITS.
- STORMWATER MANAGEMENT WAS REVIEWED AND APPROVED UNDER ECP-22-077. STORMWATER MANAGEMENT FOR THIS PROJECT IS PROVIDED BY THE USE OF ON-LOT MICRO-SCALE PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. ON-LOT MICRO-SCALE PRACTICES INCLUDE FOUR DRYWELLS (M-5) AND ONE MICRO-BIORETENTION (M-6). ON-LOT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED. THE DECLARATION OF COVENANTS AND MAINTENANCE AND RIGHT OF ENTRY AGREEMENT FOR PRIVATE STORMWATER MANAGEMENT FACILITIES WAS RECORDED IN THE HOWARD COUNTY LAND RECORDS ON MARCH 15, 2024, BY LIBER 22289 AT FOLIO 265.
- REFER TO THE STORMWATER MANAGEMENT INFORMATION CHART FOR FACILITIES UNDER ECP-22-077 AND THE STORMWATER MANAGEMENT PROJECT CHART FOR THE FACILITIES TO BE CONSTRUCTED UNDER THIS SDP.
- THE PROPOSED HOUSE SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND PUBLIC WATER AND SEWER. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- ANY DAMAGE TO THE COUNTY'S RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- SHC ELEVATIONS ARE LOCATED AT THE PROPERTY LINE/EDGE OF EASEMENT.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING:

- | | |
|------------------------------|----------------|
| BCS (CONSTRUCTION SERVICES) | 410-637-8713 |
| BCE (EMERGENCY) | 410-685-0123 |
| BUREAU OF UTILITIES | 410-313-6900 |
| COLONIAL PIPELINE CO | 410-795-1390 |
| MISS UTILITY | 1-800-257-7777 |
| STATE HIGHWAY ADMINISTRATION | 410-531-5533 |
| VERICON | 1-800-743-0033 |
- THERE IS EXISTING DWELLING/STRUCTURE LOCATED ON LOT 4 TO BE REMOVED.
 - DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - WIDTH - 12 FEET IF SERVING MORE THAN ONE RESIDENCE
 - SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.)
 - GEOMETRY - MAXIMUM 1% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (425 LOADING)
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
 - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
 - UTILIZE HOWARD COUNTY STANDARD DETAIL NO. R-6.02 FOR DRIVEWAY ENTRANCE AT JUDY LANE.
 - TRASH AND RECYCLING COLLECTION WILL BE AT JUDY LANE WITHIN 5' OF THE EDGE OF THE COUNTY ROADWAY.
 - THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT.
 - WATER SERVICE CONNECTIONS (W/C) FOR THIS PROJECT ARE FROM PUBLIC CONTRACT NO. 34-1849-D.
 - SEWER SERVICE CONNECTIONS (S/C) FOR THIS PROJECT ARE FROM PUBLIC CONTRACT NO. 34-1849-D.
 - PUBLIC WATER AND SEWER CONNECTIONS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 16.122.B OF THE HOWARD COUNTY CODE.
 - WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
 - WATER HOUSE CONNECTION SHALL BE OUTSIDE METER SETTING UNLESS OTHERWISE NOTED ON THE PLANS OR IN SPECIFICATIONS.
 - TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS OR CEMETERIES LOCATED ON THIS PROPERTY OR THE COUNTY'S CEMETERY SITE MAP.
 - JUDY LANE IS CLASSIFIED AS A LOCAL ROAD.
 - THERE ARE NO STEEP SLOPES, WETLANDS, STREAMS AND THEIR BUFFERS PRESENT ON THE SITE.
 - FOREST CONSERVATION WAS ADDRESSED UNDER THE ORIGINAL SUBDIVISION PLAN.
 - IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME 3, CHAPTER 4 - SECTION 4.7(B)(5), A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - CERTIFIED TEST PITS HAVE BEEN PROVIDED TO VERIFY THE LOCATIONS OF GROUNDWATER AND/ OR ROCK. OPEN TEST PITS WERE OBSERVED BY VOGEL ENGINEERING + TIMMONS GROUP ON JULY, 2022, AND WAS APPROVED AS PART OF ECP-22-077 PLAN. FOR SOIL BORING LOGS, SEE STORM WATER MANAGEMENT REPORT.
 - THE ENVIRONMENTAL CONCEPT PLAN (ECP-22-077) WAS APPROVED ON DECEMBER 14TH, 2022.
 - THIS LANDSCAPE PLAN WAS PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. THE FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR THIS SITE DEVELOPMENT PLAN IN THE AMOUNT OF \$3,750.00 FOR THE REQUIRED 12 SHADE AND 1 EVERGREEN TREE.
 - SOIL TYPES SHOWN HEREON ARE IN ACCORDANCE WITH THE SOIL SURVEY HOWARD COUNTY, MARYLAND.
 - THERE IS NO FLOODPLAIN ON SITE.
 - IN ACCORDANCE WITH DESIGN MANUAL-VOLUME 3, CHAPTER 2 - SECTION 2.8.B. PARKING IS REQUIRED AT TWO (2) SPACES PER UNIT OFF STREET PARKING TO INCLUDE DRIVEWAY AND PARKING PADS. DRIVEWAY COUNT AS A FULL SPACE.
 - NO WAIVER PETITIONS OR/AND ALTERNATIVE COMPLIANCE FOR ENVIRONMENTAL DISTURBANCE OR ENCROACHMENTS ARE SPACES FOR THIS PROJECT.
 - THIS PROJECT IS SUBJECT TO AN ALTERNATIVE COMPLIANCE (WP-24-015) APPROVED ON JULY 31, 2023; TO WAIVE SECTION 16.156(G)(2), TO REACTIVATE THE EXISTING SITE DEVELOPMENT PLAN AFTER MISSING THE SCHEDULED RESUBMISSION DEADLINE. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE REVISED SITE DEVELOPMENT PLAN FOR SDP-23-031 SHALL BE APPROVED WITHIN 14 DAYS OF THE APPROVAL DATE OF THIS ALTERNATIVE COMPLIANCE REQUEST ON OR BEFORE 08/14/23.
 - ADD THE ALTERNATIVE COMPLIANCE NUMBER, PURPOSE, SECTION, DATE, AND CONDITIONS TO SDP-23-031 AND ALL SUBSEQUENT PLAN SUBMISSIONS.
 - COMPLIANCE WITH ALL SUBDIVISION REVIEW COMMITTEE COMMENTS FOR SDP-23-031, JUDY LANE.
 - THIS PROJECT IS SUBJECT TO AN ALTERNATIVE COMPLIANCE (WP-24-015) APPROVED ON JULY 31, 2023; TO WAIVE SECTION 16.132, TO REQUEST RELIEF FROM ROAD IMPROVEMENTS ALONG THE FRONTAGE OF THE PROPERTY IN ACCORDANCE WITH THE DESIGN MANUAL VOLUME II, COMPLETE STREETS AND BRIDGES. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - COMPLIANCE WITH ALL SUBDIVISION REVIEW COMMITTEE COMMENTS FOR SDP-23-031, JUDY LANE.

SITE DEVELOPMENT PLAN

JUDY LANE

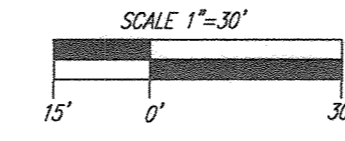
HOWARD COUNTY, MD



ESDv CONCEPT PLAN
SCALE: 1"=30'

SITE ANALYSIS DATA

A. TOTAL PROJECT AREA:	0.62 AC
B. AREA OF PLAN SUBMISSION:	0.62 AC
C. LIMIT OF DISTURBANCE:	0.53 AC
D. PRESENT ZONING DESIGNATION:	R-20
E. PROPOSED USES FOR SITE AND STRUCTURES:	SINGLE FAMILY DETACHED
F. FLOOR SPACE ON EACH LEVEL OF BUILDING PER USE:	N/A
G. TOTAL NUMBER OF UNITS ALLOWED FOR PROJECT AS SHOWN ON FINAL PLAT:	1 BUILDABLE LOT (THIS SDP)
H. TOTAL NUMBER OF UNITS PROPOSED ON THIS SUBMISSION:	1 BUILDABLE LOT (THIS SDP)
I. MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE:	N/A
J. NUMBER OF PARKING SPACES REQUIRED BY HO.C.O. ZONING REGULATIONS:	3 PER UNIT
K. NUMBER OF PARKING SPACES PROVIDED ON SITE:	(SEE PARKING TABULATION HEREON)
L. OPEN SPACE ON SITE:	N/A
M. AREA OF RECREATION OPEN SPACE REQUIRED BY SUBDIVISION & LAND DEVELOPMENT REGULATIONS:	N/A
N. BUILDING COVERAGE OF SITE: APPLICABLE DPZ FILE REFERENCES:	N/A WP-03-102, WP-03-019, F-03-129, ECP-22-077, PLAT# 15994, WP-24-008 WP-24-015
O. ANY OTHER INFORMATION WHICH MAY BE RELEVANT:	TAX MAP 41, GRID 11, PARCEL 420 5TH ELECTION DISTRICT
P. FLOOR AREA RATIO:	N/A



NOTE:
ALL WATER CONNECTIONS SHALL BE 1.5" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAILS W-3.26 OUTSIDE METER SETTINGS.

PARKING TABULATION:
TOTAL NUMBER OF DWELLING UNITS PROPOSED: 1
REQUIRED PARKING 02 SPACES PER UNIT : 2
REQUIRED OVER/LOW PARKING 00.5 SPACE PER UNIT : 1
TOTAL REQUIRED SPACES : 3
TOTAL PROVIDED SPACES : 4 (2 GARAGE / 2 DRIVEWAY)

STORMWATER MANAGEMENT PRACTICE CHART

LOT #	STREET ADDRESS	MICRO-BIORETENTION M-6	DRYWELL(M-5)
LOT 4	10713 JUDY LANE	1	4

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
David Edmondson
4/5/2024

CHIEF, DEVELOPMENT-ENGINEERING DIVISION
DATE 4/5/2024

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 4/5/2024

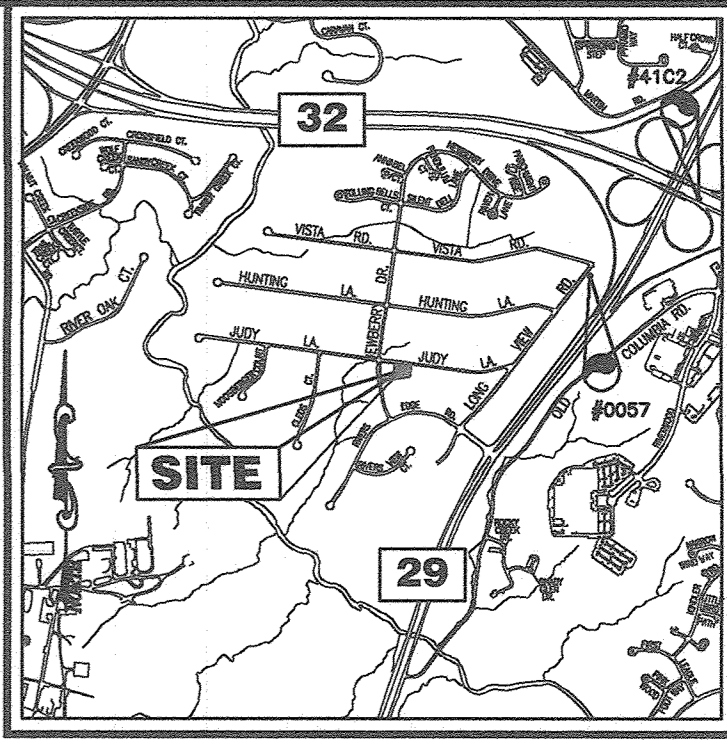
DIRECTOR
DATE

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCEL #			
RIVERSIDE ESTATE	N/A	420			
PLAT # OR L/F	BLOCK NO	ZONE	TAX MAP	ELECT. DIST.	CENSUS TRACT
15994	11	R-20	41	5TH	605102

BENCHMARKS
HOWARD COUNTY BENCHMARK - 0057
N 550835.21 E 1347017.68 ELEV.: 398.933

HOWARD COUNTY BENCHMARK - 41C2
N 551616.41 E 1348104.23 ELEV.: 395.180



VICINITY MAP
SCALE: 1"=2,000'
ADC MAP = 32 D6

LEGEND:

---	PROPERTY LINE
---	RIGHT-OF-WAY LINE
---	ADJACENT PROPERTY LINE
---	EXISTING CURB
---	CENTERLINE ROAD

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	1 OF 5
SITE LAYOUT AND LANDSCAPE PLAN	2 OF 5
SOILS MAP, GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN AND HOUSE TYPES	3 OF 5
SOIL EROSION AND SEDIMENT CONTROL PLAN - NOTES AND DETAILS	4 OF 5
STORMWATER MANagements PLAN, NOTES & DETAILS	5 OF 5

OWNER
QING YU PAN
10713 JUDY LANE
COLUMBIA, MD 21044
917-330-4000

DEVELOPER
KC MADISON LLC
8211 GUNNAR DRIVE
FULTON, MD 20759
917-330-4000

NO.	REVISION	DATE
1	REVISE HOUSE, DRIVEWAY AND GRADING	5-29-24

SITE DEVELOPMENT PLAN
COVER SHEET

JUDY LANE
10713 JUDY LANE
LAWSON, MD 21044
ZONE: R-20

TAX MAP 41, BLOCK 11, PARCEL 420
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP

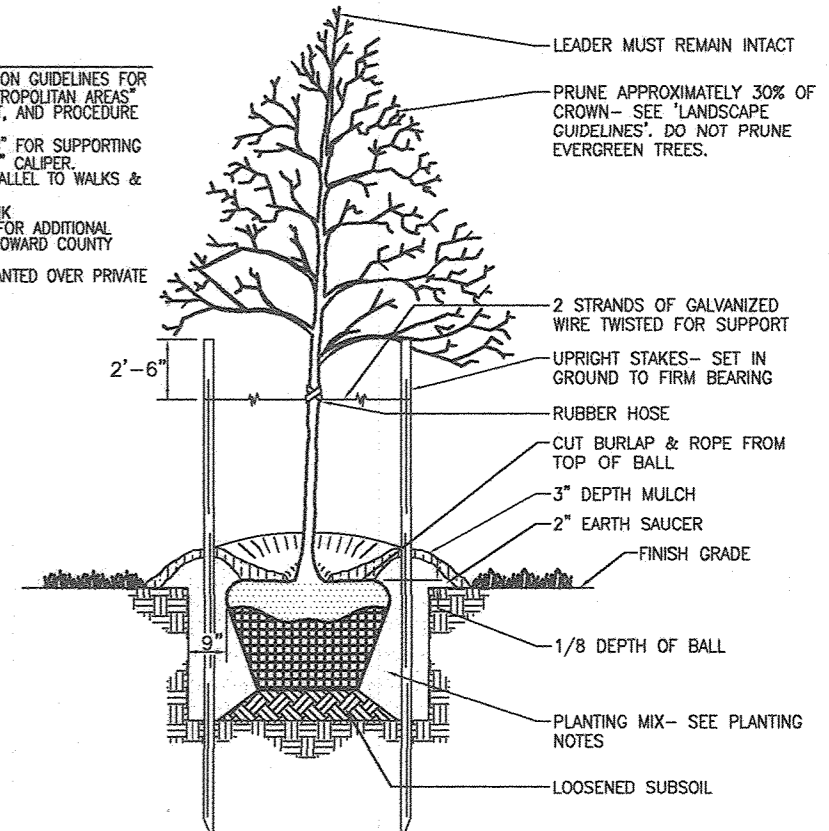
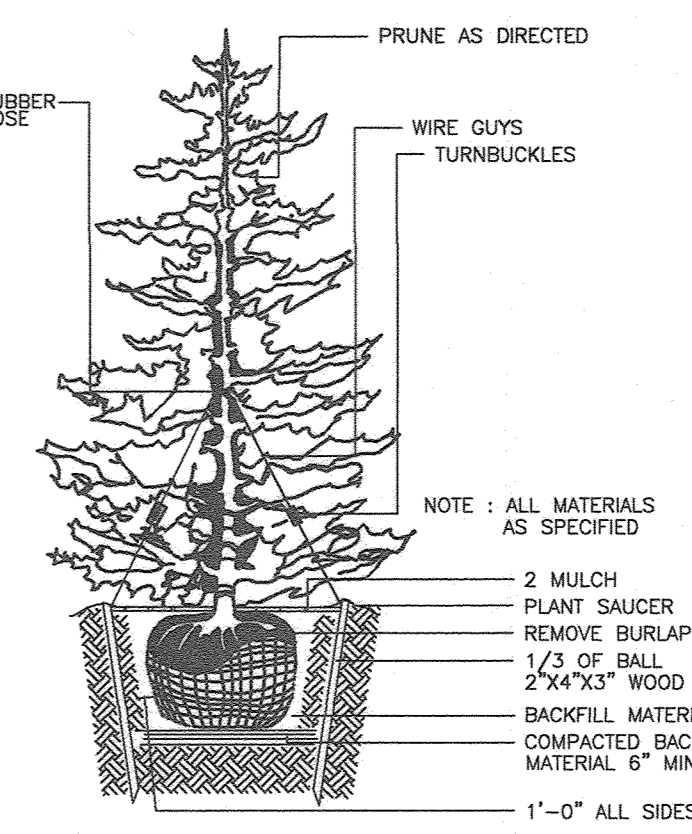
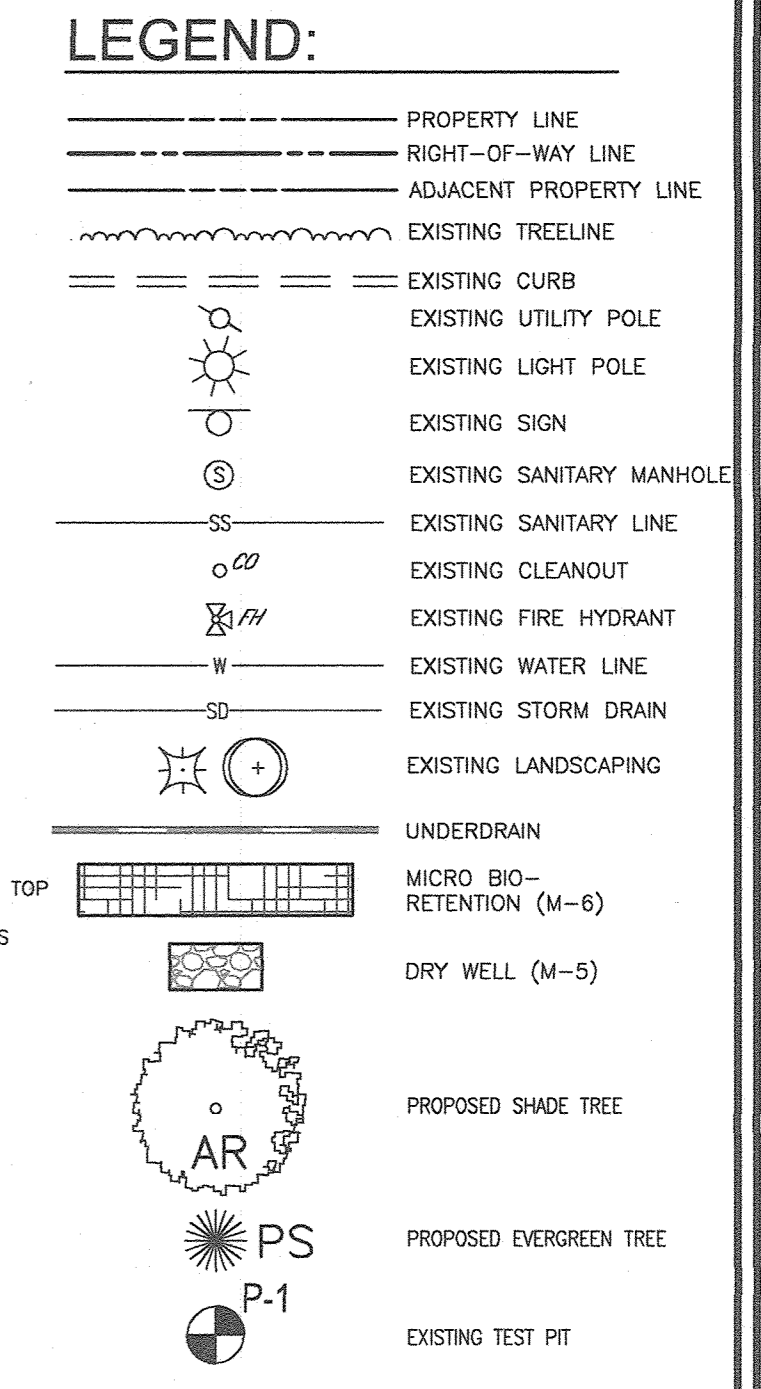
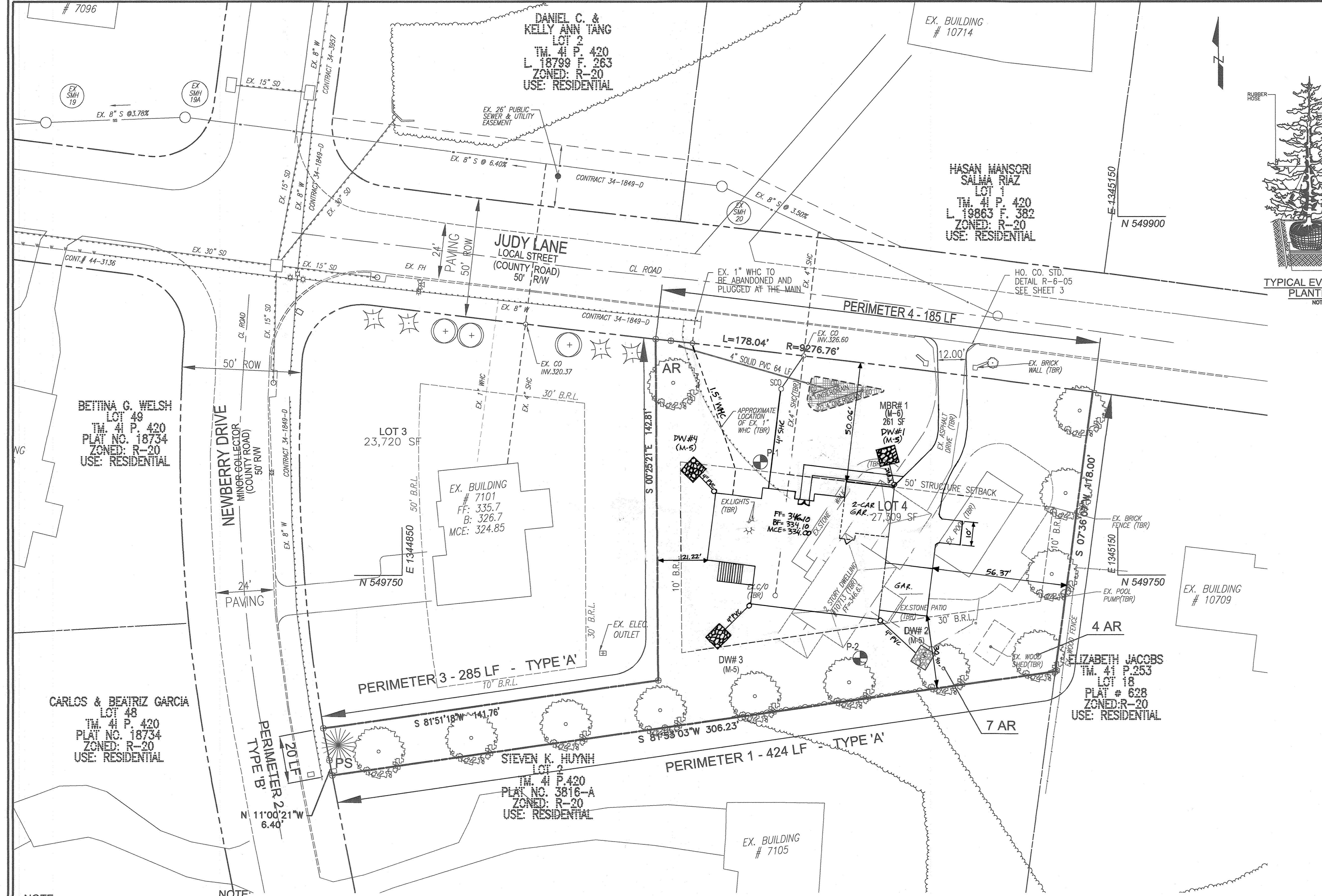
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: RHW
DRAWN BY: KG
CHECKED BY: RHW
DATE: JANUARY 2024
SCALE: AS SHOWN
W.O. NO.: 2024052

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. EXPIRATION DATE: 06-30-2024

1 SHEET OF 5



- NOTES:**
- SEE LANDSCAPE SPECIFICATION GUIDELINES FOR PLANTING, UNDERDRAIN, MICROBIORETENTION, AND TREE SPECIFICATIONS.
 - SEE LANDSCAPE SPECIFICATION GUIDELINES FOR SUPPORTING TREES LARGER THAN 2" CALIPER.
 - PLANTING STAKES PARALLEL TO WALKS & DRIVEWAYS.
 - KEEP MULCH 1" FROM TRUNK.
 - SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY BIDDING REQUIREMENTS.
 - TREES ARE NOT TO BE PLANTED OVER PRIVATE SERVICE DRAINAGE.

OWNER
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COLUMBIA, MD 21044
917-330-4000

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NOTE:

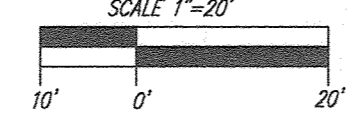
- TYPICAL DRIVEWAY WIDTH SHOULD BE 16 FEET WIDE FOR THE PROPOSED 2 CAR GARAGE. WIDTH SUBJECT TO CHANGE WITH BUILDER RESISTE.
- THE SHOWN DRIVEWAY LOCATION CANNOT CHANGE UNLESS NOTED ON THIS SDP CONFIRMING THAT THE GRADING AND DRIVEWAY SLOPES WILL REMAIN THE SAME WHETHER THE DRIVEWAY IS ON THE RIGHT OR LEFT SIDE OF THE HOUSE.

NOTE:

- REFER TO SHEET 5 FOR DRYWELL (DW) SIZE, NOTES & DETAILS

NOTE:

- WATER HOUSE CONNECTION SHALL BE 1-1/2" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAILS W-3.28 OUTSIDE METER SETTINGS.



SEDIMENT CONTROL PLAN
SCALE: 1"=20'

SCHEDULE A PERIMETER LANDSCAPE EDGE

KEY	QUAN.	BOTANICAL NAME	SIZE	CAT.
AR	12	ACER RUBRUM 'RED MAPLE' OCTOBER GLORY RED MAPLE	2.5'-3" CAL	B & B
PS	1	PINUS STROBUS EASTERN WHITE PINE	6'-8" HGT.	B & B

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER AND ROADWAYS				TOTAL
	1	2	3	4	
PERIMETER/FRONTAGE DESIGNATION	A	B	A	NONE	
LANDSCAPE TYPE	424'	20'	285'	185'	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	NO	NO	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	NO	
NUMBER OF PLANTS PROVIDED	160	7	150	5	12
NUMBER OF PLANTS REQUIRED	140	1	140	1	1
EX SHADE TREES	-	-	-	-	-
OTHER TREES (2:1 SUBSTITUTION)	-	-	-	-	-
SHRUBS (10:1 SUBSTITUTION)	-	-	-	-	-
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED	-	-	-	-	-

LANDSCAPE SCHEDULE NOTE:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT IANV SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HED PLANTING SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- A FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$3,750 FOR THE REQUIRED 12 SHADE TREE AND 1 EVERGREEN WILL BE PROVIDED WITH THE GRADING PERMIT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

4/5/2024

CHIEF, DEVELOPMENT ENGINEERING DIVISION

4/5/2024

CHIEF, DIVISION OF LAND DEVELOPMENT

4/5/2024

DIRECTOR

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

2/27/2024

SIGNATURE OF DEVELOPER

NO.	REVISE HOUSE, DRIVEWAY AND GRADING REVISION	5-29-24 DATE

SITE DEVELOPMENT PLAN
SITE LAYOUT AND LANDSCAPE PLAN

JUDY LANE
10713 JUDY LANE, COLUMBIA, MD 21044
ZONE: R-20

TAX MAP 41 BLOCK 11 5TH ELECTION DISTRICT

PARCEL 420 HOWARD COUNTY, MARYLAND

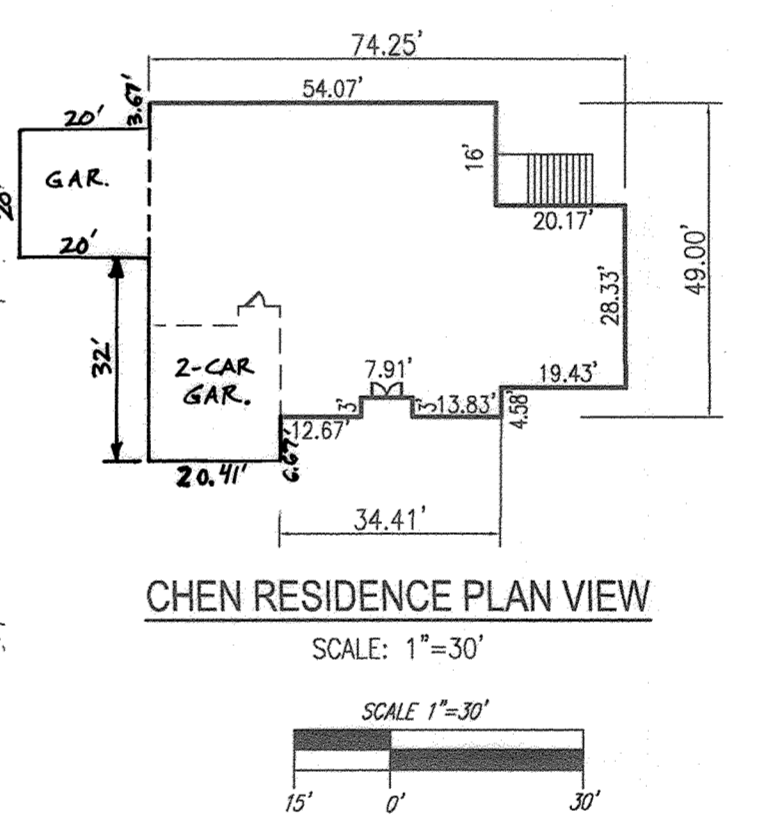
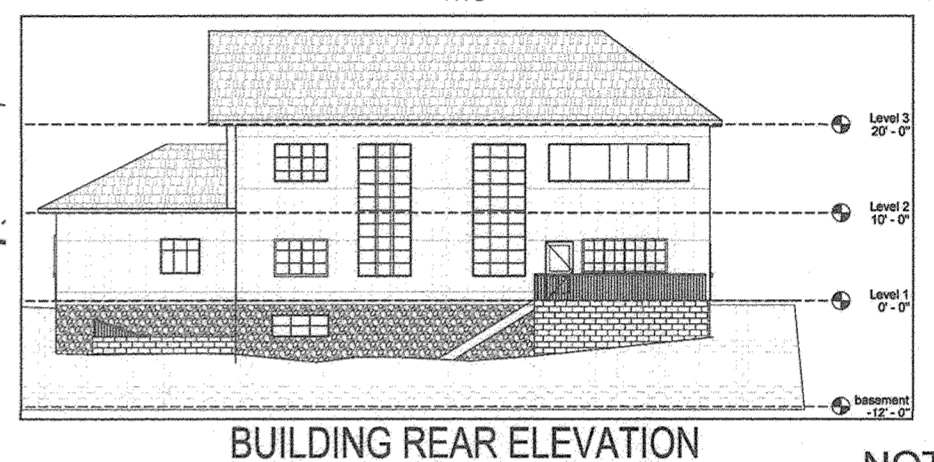
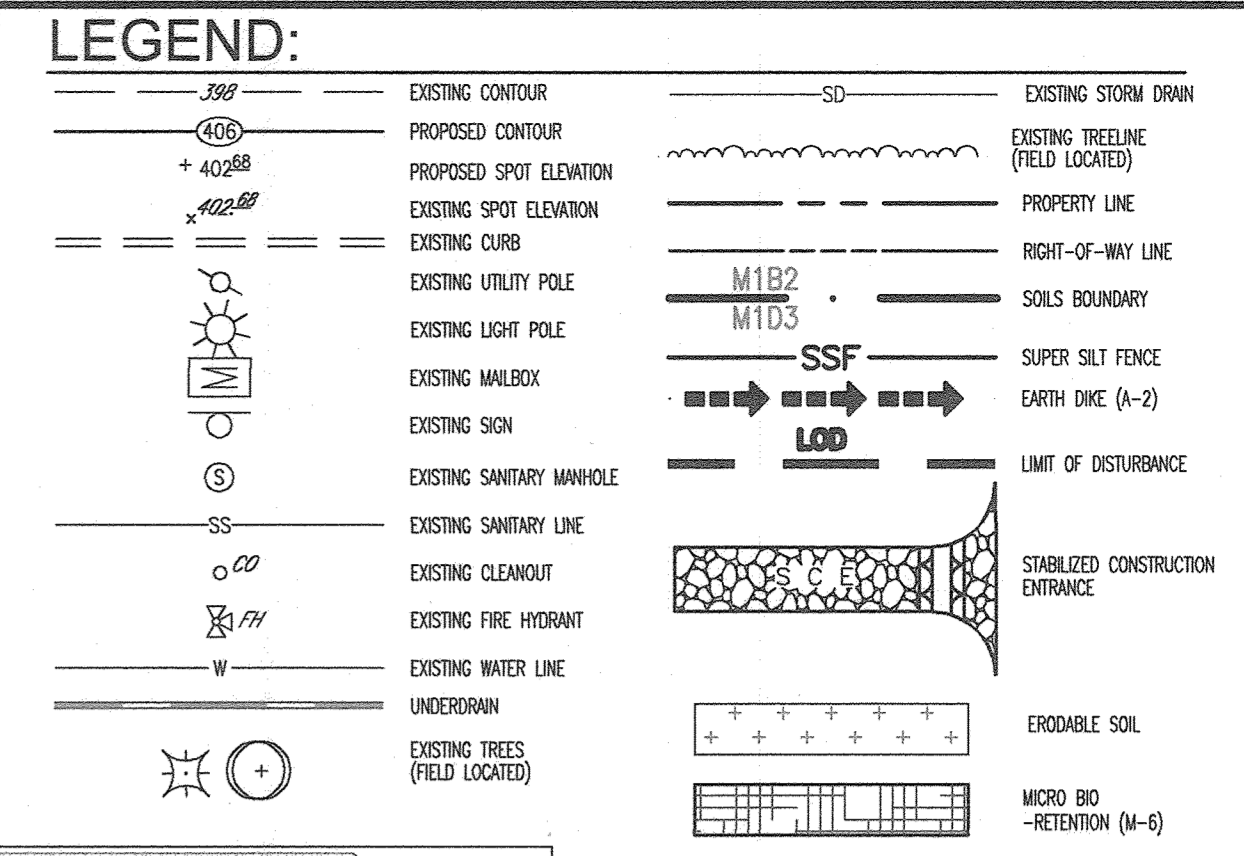
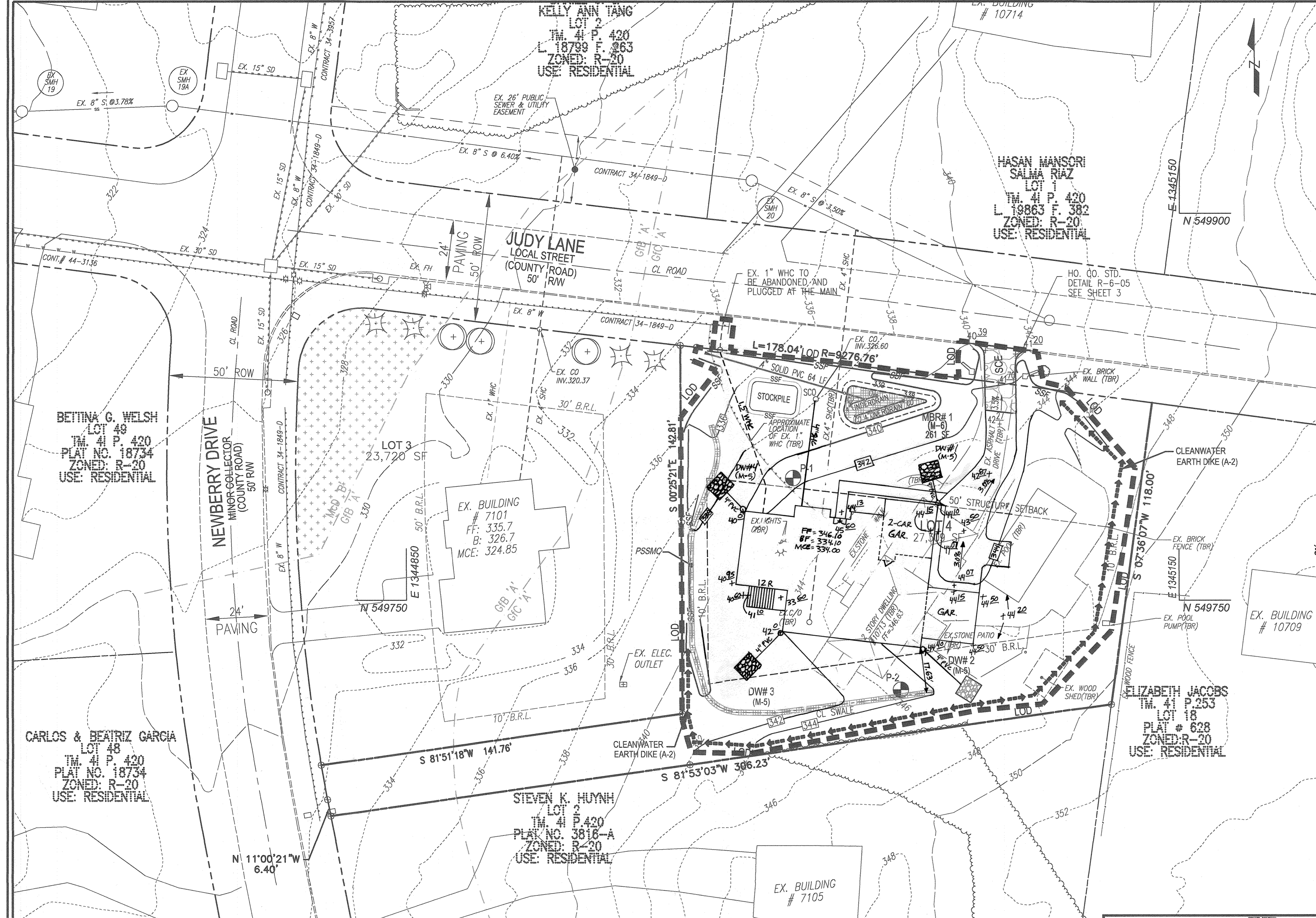
VOGEL ENGINEERING
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3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timms.com

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 10193 EXPIRATION DATE 08-27-2024

DESIGN BY: RHV
DRAWN BY: KG
CHECKED BY: RHV
DATE: JANUARY 2024
SCALE: AS SHOWN
W.O. NO.: 2024052

2 SHEET OF 5



- NOTES:**
- ADDITIONAL HOUSE TYPES AND OPTIONS MAY FIT ON THIS LOT. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.
 - A MINIMUM OF 10 FEET SHALL BE PROVIDED BETWEEN THE HOME AND AN ON-LOT DRYWELL.
 - MODEL ELEVATION SHALL NOT EXCEED 34' MAX HEIGHT AS ALLOWED BY R-20 ZONE.
 - IN ACCORDANCE WITH SECTION 128.0.A OF THE HOWARD COUNTY ZONING REGULATIONS:
 - MAX ENCROACHMENT INTO SETBACK FOR CORNICES, EAVES AND CANTILEVERED BUILDING FEATURES WHICH DO NOT CONTAIN ANY FLOOR AREA OR EXTENSION OF INTERIOR SPACE IS: 3 FEET INTO ANY SETBACK.
 - MAX ENCROACHMENT INTO SETBACK FOR BAY WINDOWS, WINDOW WELLS, GABLES, VESTIBLES, BALCONIES AND CHIMNEYS IS: 4 FEET INTO ANY SETBACK OR A REQUIRED DISTANCE BETWEEN BUILDINGS, PROVIDED THE FEATURE HAS A MAXIMUM WIDTH OF 16 FEET AS MEASURED HORIZONTALLY ALONG THE WALL FROM WHICH THE FEATURE EXTENDS.
 - MAX ENCROACHMENT INTO SETBACK FOR EXTERIOR STAIRWAYS OR RAMPS, ABOVE OR BELOW GROUND LEVEL EXCLUDING THOSE ATTACHED TO A PORCH OR DECK IS: 10 FEET INTO A FRONT SETBACK OR A SETBACK FROM A PROJECT BOUNDARY OR DIFFERENT ZONING DISTRICT: 16 FEET INTO A REAR SETBACK; 4 FEET INTO A SIDE SETBACK OR A REQUIRED DISTANCE BETWEEN BUILDINGS.
 - MAX ENCROACHMENT INTO SETBACK FOR OPEN OR ENCLOSED PORCHES AND DECKS, AND THE STAIRWAYS OR RAMPS ATTACHED THERETO IS: 10 FEET INTO A FRONT OR REAR SETBACK, A SETBACK FROM A PROJECT BOUNDARY, A SETBACK FROM A DIFFERENT ZONING DISTRICT, OR A REQUIRED DISTANCE BETWEEN BUILDINGS.

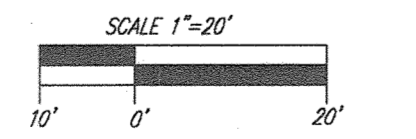
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DEVELOPER
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MAPPED SOILS TYPES - HOWARD COUNTY, MARYLAND

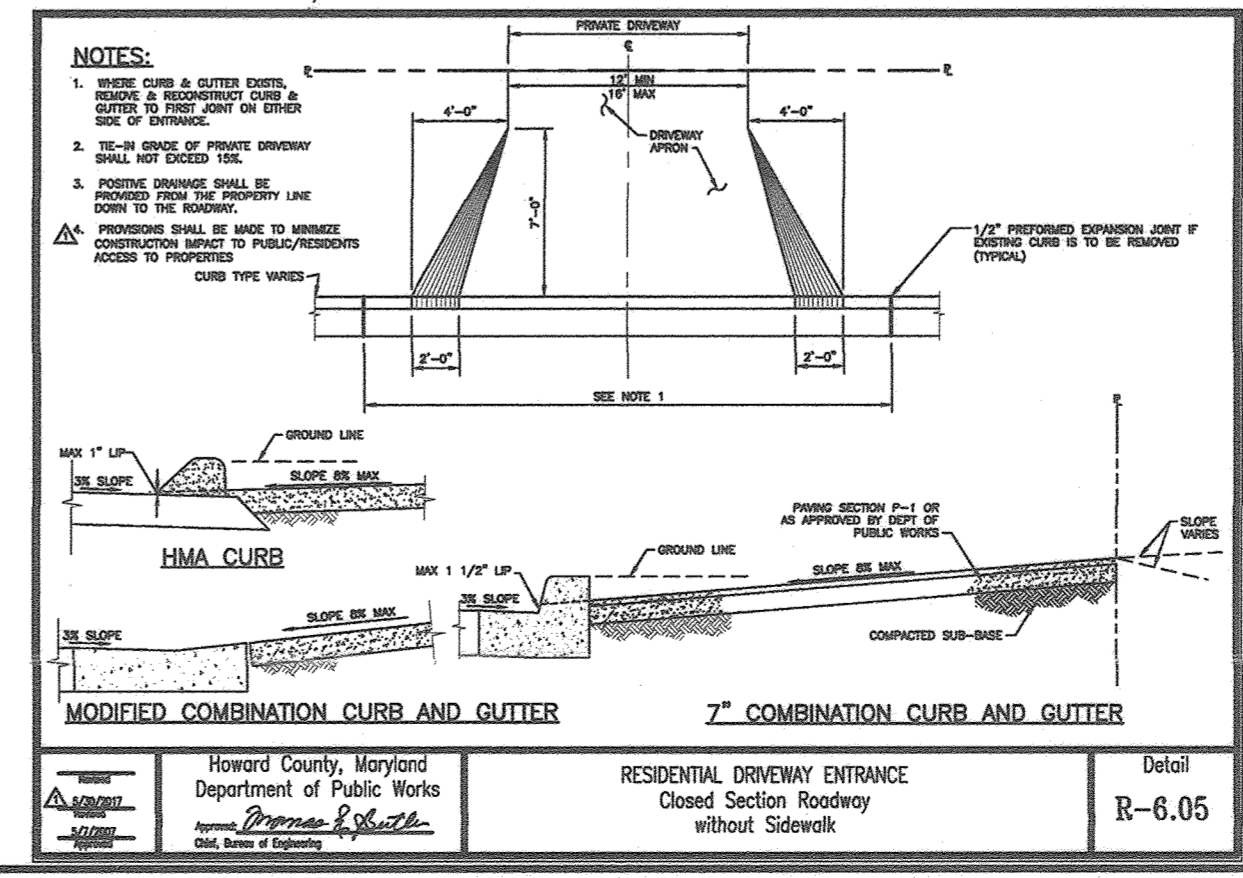
SYMBOL	NAME / DESCRIPTION	GROUP	HYDRIC	Kw	RANGE	HURLEY	ERODIBLE
GFB	GLADSTONE-URBAN LAND COMPLEX, 0-8 PERCENT SLOPES	A	NO	0.28	NO		
GIC	GLADSTONE-URBAN LAND COMPLEX, 8-15 PERCENT SLOPES	A	NO	0.28	NO		
MGR	MANOR LOAM, 15-25 PERCENT SLOPES, VERY ROCKY	B	NO	0.28	YES		

NOTE: TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, AND HOWARD COUNTY SOIL CONSERVATION DISTRICT WEBSITE DOCUMENTS. HTS://WWW.HOWARDSOIL.ORG/DOCUMENTS
HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT



GRADING, SOILS EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1"=20'

- NOTE:**
- STABILIZATION IS TO BE DONE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS REQUIRED BY THE 2011 STD'S. & SPECS. WHICHEVER IS MORE RESTRICTIVE.
 - LOCATE STOCKPILE AS SHOWN HEREON OR AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. ANY STOCKPILES EXCEEDING 15 FEET IN HEIGHT SHALL BE BENCHED.
 - SILT FENCE IS TO BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
 - SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 35 FEET APART
 - DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
4/5/2024
CHIEF, DEVELOPMENT-ENGINEERING DIVISION
4/5/2024
CHIEF, DIVISION OF LAND DEVELOPMENT
4/5/2024
DIRECTOR

OWNER/DEVELOPER CERTIFICATION:
I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.
2/27/2024
OWNER/DEVELOPER SIGNATURE
James Chen
PRINTED NAME & TITLE

DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
2/27/2024
DESIGNED BY:
Robert H. Vogel
DESIGNER'S SIGNATURE
ROBERT H. VOGEL
PRINTED NAME
MD REGISTRATION NO. 16193
P.E., R.L.S., OR R.L.A. (circle one)
DATE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
DESIGNED BY:
Alexandra Bratovic
4/5/2024
HOWARD S.C.D. DATE

NO.	REVISION	DATE
1	REVISE HOUSE, DRIVEWAY AND GRADING	5-29-24

SITE DEVELOPMENT PLAN
SOILS MAP, GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN AND HOUSE TYPES
JUDY LANE
10713 JUDY LANE, COLUMBIA, MD 21044
ZONE: R-20

TAX MAP 41, BLOCK 11, 5TH ELECTION DISTRICT
PARCEL 420
HOWARD COUNTY, MARYLAND
VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
DESIGN BY: RHV
DRAWN BY: KG
CHECKED BY: RHV
DATE: JANUARY 2024
SCALE: AS SHOWN
W.O. NO.: 2024052
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. MY LICENSE EXPIRES ON 08-27-2024.
3 SHEET OF 5

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- 1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855... 2. PRIOR TO THE START OF EARTH DISTURBANCE... 3. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT...

OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE PREPARED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.

- 4. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL... 5. FOLLOWING INITIAL SOIL DISTURBANCE OR DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1)...

Table with 2 columns: SITE ANALYSIS and TOTAL WASTE/BORROW AREA LOCATION. Includes rows for DISTURBED AREA, AREA TO BE ROOFED OR PAVED, and TOTAL WASTE/BORROW AREA LOCATION.

- (1) REFER TO ITEM 11 BELOW... 7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES SHOWN ON THE SAME DAY OF DISTURBANCE... 8. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID, THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY...

- 9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY... 10. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGINS ON ONE SUBSECTION (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME... 11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGINS ON ONE SUBSECTION (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME...

REV. 8/2015 A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT (1 DAY)... 2. DEVELOPER / CONTRACTOR SHALL REQUEST A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE ENFORCEMENT AUTHORITY PRIOR TO BEGINNING CONSTRUCTION (1 DAY)... 3. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK (1 DAY)...

Table with 2 columns: HARDNESS ZONE (FROM FIGURE B.3) and FERTILIZER RATE (10-20-20). Includes rows for COOL SEASON ANNUAL CROPS OR EQUAL and WARM SEASON ANNUAL CROPS OR EQUAL.

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL - PAGES B.26 - B.32

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Includes fields for CHIEF, DEVELOPMENT ENGINEERING DIVISION, DATE, and SIGNATURE.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION. PURPOSE TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

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

- 1. GENERAL USE A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE... B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHOULDERLINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE, SECTION 342, CRITICAL AREA PLANTING... 2. TURFGRASS MIXTURES A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE...

NOTES: SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY #77, 'TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND'... C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES - WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDNESS ZONES: 5b, 6a)...

- 1. GENERAL SPECIFICATIONS A. ALL TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR... B. SOD MUST BE MACHINE CUT TO A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/8 INCH... C. TURFGRASS SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION...

- 2. SOD MAINTENANCE A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES... B. AFTER THE FIRST WEEK, SO WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT... C. SOD MUST NOT BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS...

Table with 2 columns: HARDNESS ZONE (FROM FIGURE B.3) and FERTILIZER RATE (10-20-20). Includes rows for COOL SEASON ANNUAL CROPS OR EQUAL and WARM SEASON ANNUAL CROPS OR EQUAL.

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL - PAGES B.26 - B.32

OWNER/DEVELOPER CERTIFICATION. I HEREBY CERTIFY THAT THIS GRADING, CONSTRUCTION OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL WILL BE TRAINED AND CERTIFIED IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDC.

R-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

DEFINITION THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. PURPOSE TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

- 1. TEMPORARY STABILIZATION A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT... B. MULCH ALONE MAY BE APPLIED THROUGHOUT THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN... 2. PERMANENT STABILIZATION A. SEEDBED PREPARATION FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE... B. SOIL CONTAINS LESS THAN 40 PERCENT PLAT BUT ENOUGH FINE GRANULAR MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD AND OTHER NUTRIENT ELEMENTS...

- 3. TOPSOILING IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION... 4. MULCHING (IN ORDER OF PREFERENCE) A. STRAW CONSISTING OF THRESHED WHEAT, LYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR... B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE...

- 5. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) A. 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... B. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT... C. TURFGRASS SOD MUST BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION...

- 6. TURFGRASS SOD MUST BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETERMINAL TO PROPER GRADING AND SEEDBED PREPARATION.

Table with 2 columns: HARDNESS ZONE (FROM FIGURE B.3) and FERTILIZER RATE (10-20-20). Includes rows for COOL SEASON ANNUAL CROPS OR EQUAL and WARM SEASON ANNUAL CROPS OR EQUAL.

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL - PAGES B.26 - B.32

DESIGN CERTIFICATION. I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS... DESIGNER'S SIGNATURE: Robert H. Vogel, DATE: 2/27/2024.

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

DEFINITION THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. PURPOSE TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

- 1. GENERAL USE A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW... B. MULCH ALONE MAY BE APPLIED THROUGHOUT THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN... 2. APPLICATION A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS... B. DRILL OR CULPBACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL... C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER)...

- 3. ANCHORING A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER... B. MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE...

- 4. CONTRACT FLOW CHANNELS ON UNDISTURBED, CONTIGUOUS GRADE, ADJUSTING THE LOCATION OF FLOW CHANNELS AS NECESSARY TO MAINTAIN PROPER GRADE... 5. STABILIZE EARTH ONS WITHIN THREE DAYS OF INSTALLATION, STABILIZE FLOW CHANNELS FOR CLEAR WATER OVERFLOW WITHIN 24 HOURS OF INSTALLATION... 6. CONTRACT FLOW CHANNELS ON UNDISTURBED, CONTIGUOUS GRADE, ADJUSTING THE LOCATION OF FLOW CHANNELS AS NECESSARY TO MAINTAIN PROPER GRADE...

- 7. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK... 8. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK...

Table with 2 columns: HARDNESS ZONE (FROM FIGURE B.3) and FERTILIZER RATE (10-20-20). Includes rows for COOL SEASON ANNUAL CROPS OR EQUAL and WARM SEASON ANNUAL CROPS OR EQUAL.

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL - PAGES B.26 - B.32

DESIGN CERTIFICATION. I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS... DESIGNER'S SIGNATURE: Alexander Bratovic, DATE: 4/5/2024.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

DEFINITION A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. PURPOSE TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONSIDERS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS WHERE PRACTICE APPLIES STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

- 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN... 2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1... 3. SECTION B-3-3 LAND BENCHING: A. RINOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE... B. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE... C. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE...

- 4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE... 5. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE... 6. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE...

- 7. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK... 8. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK...

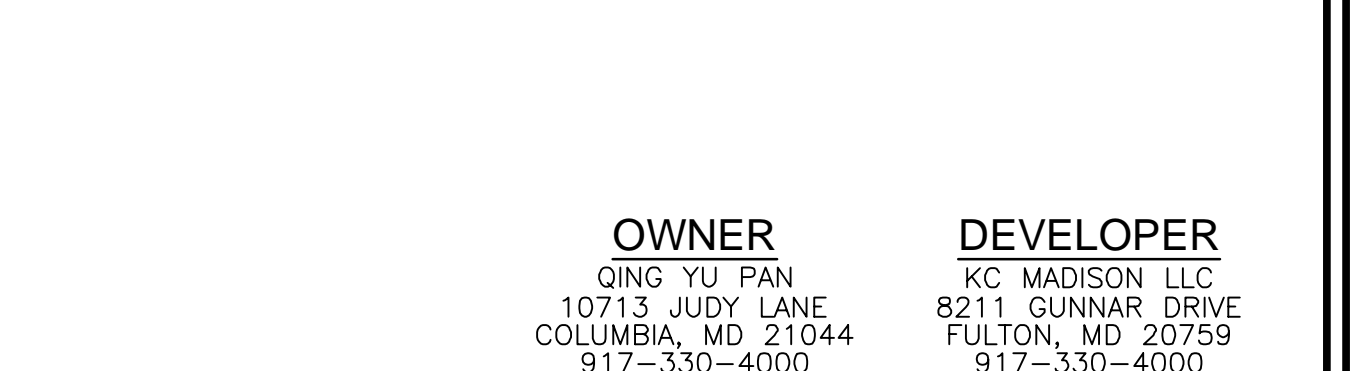
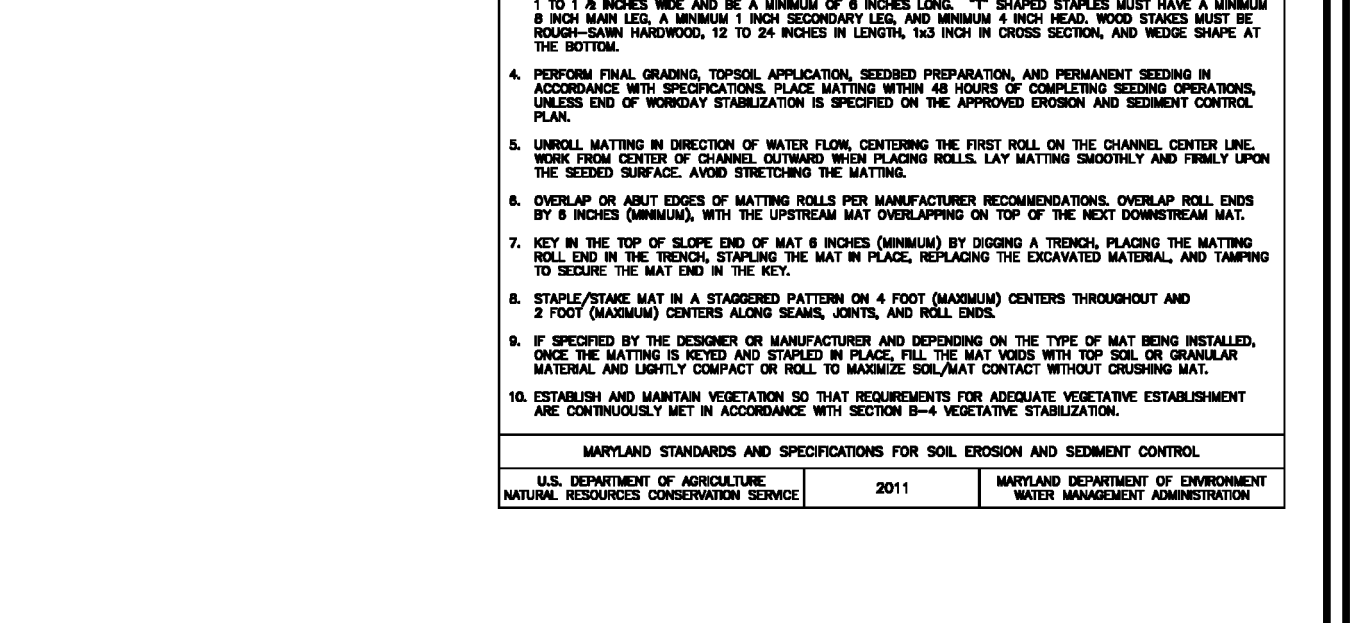
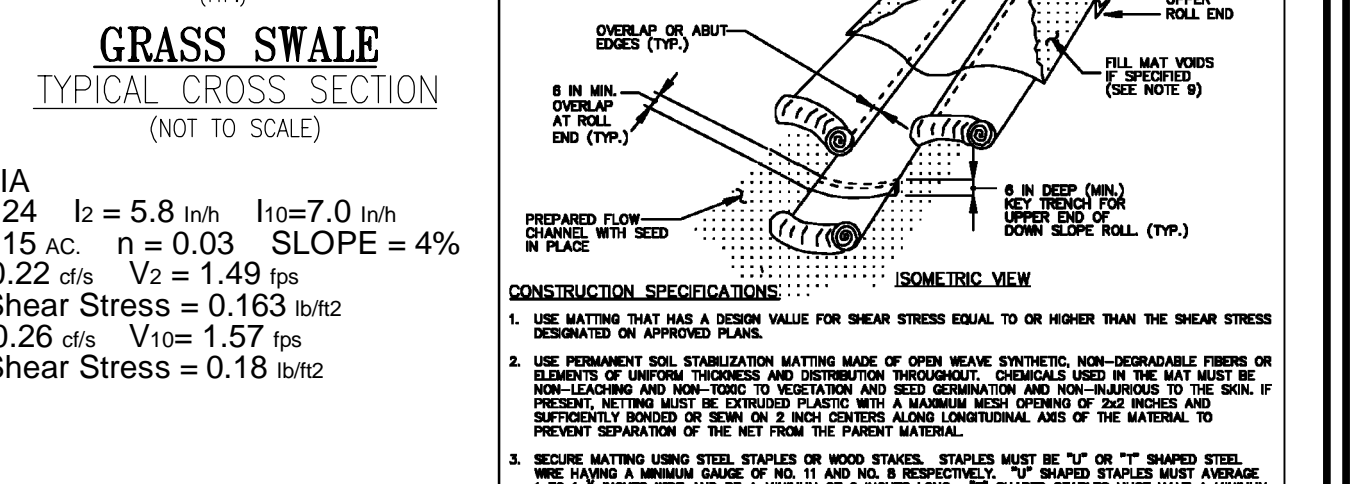
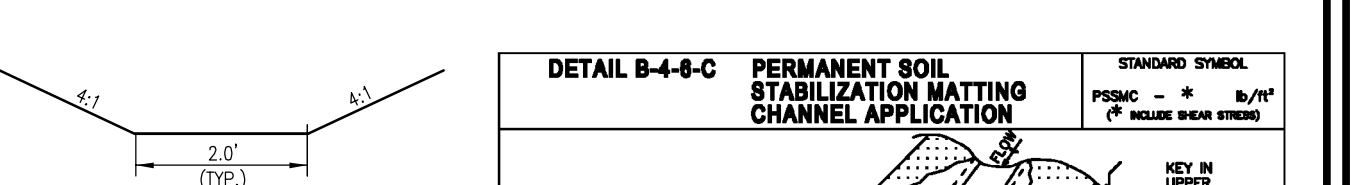
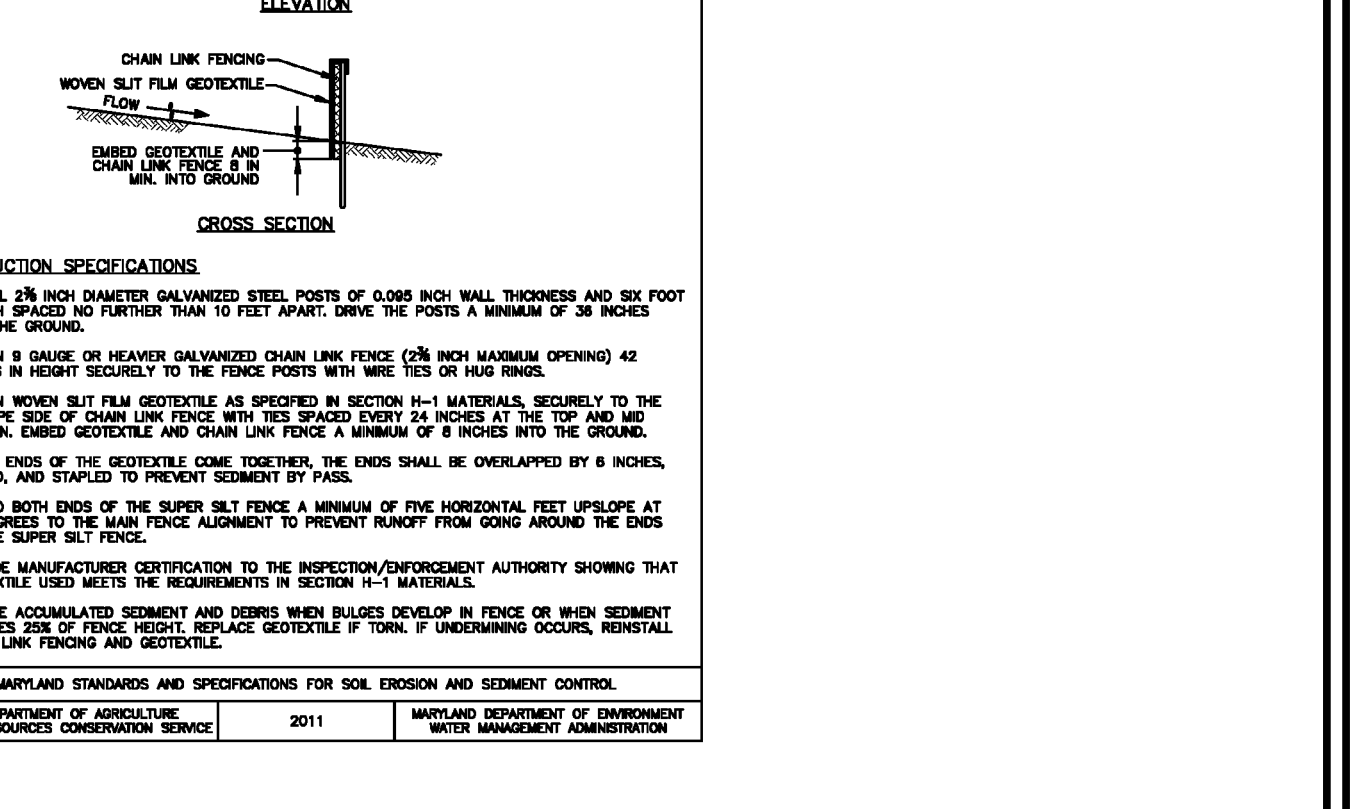
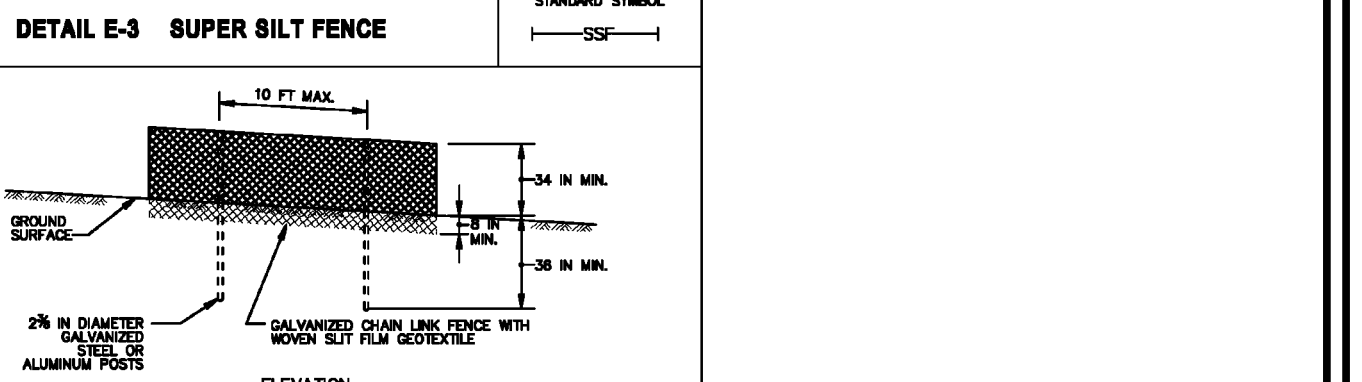
- 9. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK... 10. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK...

- 11. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK... 12. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR BARE TRACKING SURFACE TO PREVENT A TURNING BANK...

Table with 2 columns: HARDNESS ZONE (FROM FIGURE B.3) and FERTILIZER RATE (10-20-20). Includes rows for COOL SEASON ANNUAL CROPS OR EQUAL and WARM SEASON ANNUAL CROPS OR EQUAL.

FOR ALTERNATES, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL - PAGES B.26 - B.32

DESIGN CERTIFICATION. I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS... DESIGNER'S SIGNATURE: Alexander Bratovic, DATE: 4/5/2024.



OWNER: QING YU PAN, 10713 JUDY LANE, COLUMBIA, MD 21044. DEVELOPER: KC MADISON LLC, 8211 GUNNAR DRIVE, FULTON, MD 20759.

SITE DEVELOPMENT PLAN GRADING AND SOIL EROSION, & SEDIMENT CONTROL PLAN-NOTES & DETAILS. JUDY LANE, 10713 JUDY LANE, COLUMBIA, MD 21044. ZONE: R-20.

TAX MAP 41 BLOCK 11 5TH ELECTION DISTRICT. HOWARD COUNTY, MARYLAND. PARCEL 420.

VOGEL ENGINEERING + TIMMONS GROUP. 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043. P: 410.461.7666. F: 410.461.8961. www.timmons.com.

