

INDEX OF DRAWINGS

| NO. | DESCRIPTION |
|-----|------------------------------------|
| 1 | COVER SHEET |
| 2 | SITE DEVELOPMENT PLAN |
| 3 | SITE DEVELOPMENT PLAN |
| 4 | SEDIMENT CONTROL NOTES AND DETAILS |
| 5 | LOTS 13 & 14 RETAINING WALL |

SITE DEVELOPMENT PLAN STONE MANOR

SECTION 3 LOTS 4, 6, 7, 12 AND 13

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ADDRESS CHART

| LOT # | ADDRESS |
|-------|---------------------|
| 4 | 4378 STONECREST DR. |
| 6 | 4370 STONECREST DR. |
| 7 | 4366 STONECREST DR. |
| 12 | 4346 STONECREST DR. |
| 13 | 4342 STONECREST DR. |

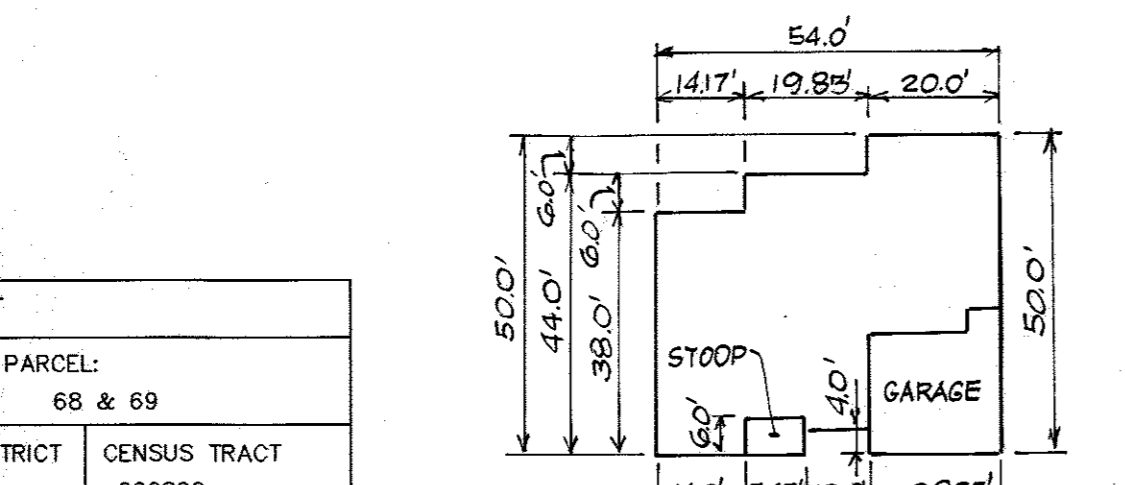
GENERAL NOTES

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND PER THE "COMP LITE" ZONING REGULATION AMENDMENTS EFFECTIVE 7/28/06.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:
 - MISC. UTILITY: 1-800-257-7777
 - VERIZON TELEPHONE COMPANY: (410) 725-9976
 - HOWARD COUNTY BUREAU OF UTILITIES: (410) 313-4900
 - AT&T CABLE LOCATION DIVISION: (410) 393-3533
 - BALTIMORE GAS & ELECTRIC: (410) 685-0123
 - STATE HIGHWAY ADMINISTRATION: (410) 531-5533
 - HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION: (410) 313-1880
- PROJECT BACKGROUND:
 LOCATION: TAX MAP 25, PARCELS 68 & 69, GRID 19, LOTS 4, 6, 7, 12 AND 13.
 ZONING: R-20
 ELECTION DISTRICT: 2ND
 TOTAL AREA: 1.62 AC ±
 LIMIT OF DISTURBED AREA: 1.62 AC ±
 AREA OF PLAN SUBMISSION: 1.62 AC ±
 MINIMUM LOT SIZE: 12,000 SQ.FT.
 PROPOSED USE FOR SITE: RESIDENTIAL
 TOTAL NUMBER OF UNITS: 5
 TYPE OF PROPOSED UNIT: SPD
 DPZ FILES: SP-04-04, SP-98-15, P-01-14, S-97-16, S-99-21, F-00-54, F-02-06, F-06-036
 PLAT NO. 18584-6
 DEED REFERENCE: 214/ 266 & 7457/ 328
- TOPOGRAPHIC AND BOUNDARY INFORMATION IS BASED ON MONUMENTED FIELD RUN SURVEY BY MILDENBERG, BOENDER AND ASSOC. INC. PERFORMED IN OR ABOUT AUGUST, 2003. VERTICAL DATUM IS NAD 83.
 - HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND NAD 83 (HORZ) AND NGVD29 (VERT) AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 2411 & 2413 (ALL UNITS ARE IN FEET). HOWARD COUNTY CONTROL STATIONS CONSIST OF A STANDARD STAMPED DISC SET ON TOP OF CONCRETE COLUMN.
 STA. No. 2411 N 577,298.654 ELEV. 437.831
 E 1,366,075.133
 STA. No. 2413 N 580,648.904 ELEV. 404.482
 E 1,364,974.471
 - WETLANDS, STREAM AND FOREST STAND DELINEATION IS BY ECO SCIENCE PROFESSIONALS INC. ON OR ABOUT AUGUST 2003. FLOODPLAIN STUDY WAS CONDUCTED BY MILDENBERG, BOENDER & ASSOCIATES, INC. ON OR ABOUT SEPTEMBER 2003.
 - NO CEMETERIES EXIST ON SITE.
 - HISTORIC STRUCTURE HO-421 (STONE HOUSE @ BON AIR) IS TO REMAIN AS PART OF LOT 14. THE PLAN IS EXEMPT FROM HISTORIC DISTRICT COMMISSION REVIEW BASED ON SUBMISSION DATES OF PRIOR PLANS.
 - TRAFFIC STUDY BY MARS GROUP, DATED AUG. 2003, APPROVED MARCH 19, 2004.
 - WETLANDS, STREAMS, 25% STEEP SLOPES AND FLOODPLAINS DO EXIST ON SITE.
 - CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
 - FOR ALL DRIVEWAYS ENTRANCES REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6-06.
 - DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE).
 - B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN).
 - C) GEOMETRY - MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.
 - D) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (125 LOADING).
 - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
 - F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
 - G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
 - PER SECTION 128 OF THE 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.
 - FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAVE BEEN FULFILLED BY RETENTION OF 1.17 ACRES, REFORESTATION OF 1.03 ACRES, AND A FEE-IN-LIEU OF 0.36 ACRES (15,682 SQ.FT.) IN THE AMOUNT OF \$7,841.08. FINANCIAL SURETY FOR THE ON-SITE RETENTION OF 1.17 ACRES (50,965.2 SQ.FT.) IN THE AMOUNT OF \$10,193.04 AND REFORESTATION OF 1.03 ACRES (44,866.8 SQ. FT.) IN THE AMOUNT OF \$22,433.40 HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE TOTAL AMOUNT OF \$32,626.44 UNDER F-06-036.
 - FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
 - LANDSCAPING HAS BEEN PROVIDED UNDER F-06-36.
 - OPEN SPACE REQUIREMENTS HAVE BEEN SATISFIED UNDER F-06-36.
 - THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL NOT 45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL #75-2003. DEVELOPMENT OF CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
 - NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, 100 YEAR FLOODPLAIN EASEMENT AND FOREST CONSERVATION EASEMENT AREAS, EXCEPT AS SHOWN ON APPROVED PLANS.
 - THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING PLANT MATERIALS, BERRIS, FENCES AND WALLS (AS REQUIRED UNDER F-06-36) ALL PLANTS MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
 - STORM WATER MANAGEMENT IS PUBLICLY OWNED AND MAINTAINED BY HOWARD COUNTY AND WILL BE PROVIDED VIA:
 - THE CHANNEL PROTECTION VOLUME IS PROVIDED BY THE EXISTING WET POND LOCATED ON STONE MANOR SECTION 1.
 - THIS POND ALSO MANAGES THE 2 AND 10 YEAR EVENTS FOR ITS ASSOCIATED DRAINAGE AREA. THE W6V AND REV FOR THE REMAINING AREAS OF THE SITE ARE PROVIDED BY: NATURAL AREA CONSERVATION CREDIT, SHEET FLOW TO BUFFER CREDIT AND NON-ROOFTOP DISCONNECTION CREDITS. THESE AREAS INCLUDE LOTS 1&2, AND 11-15 APPROVED UNDER F-03-36.
 - PERIMETER LANDSCAPING HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING (23 SHADE TREES, 10 EVERGREENS) HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$9,400.00 UNDER F-06-036.
 - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
 - SEWER WATER CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
 - 10' SEWER EASEMENT SETBACK SHOWN ON LOTS 4, 6, 7, 12 AND 13 IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN MANUAL.
 - EXISTING SEDIMENT CONTROL UNDER F-06-36 WILL BE UTILIZED.

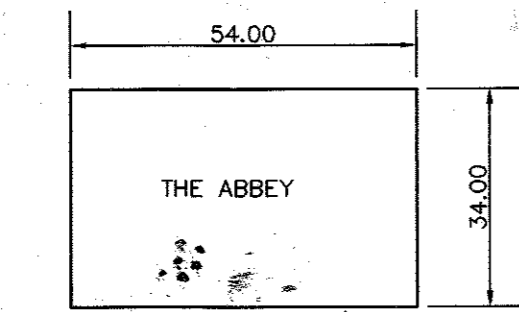
| PERMIT INFORMATION BLOCK | | | | | |
|--|----------------|---|-----------------------|--------------------------|------------------------|
| SUBDIVISION NAME STONE MANOR SECTION 3, | | SECTION/AREA LOTS 4, 6, 7, 12 AND 13 | | PARCEL: 68 & 69 | |
| PLAT NO. 18584-86 | BLOCK(S) 19 | ZONING R-20 | TAX MAP NO. 25 | ELECTION DISTRICT 2ND | CENSUS TRACT 606802 |
| WATER CODE 1-E18 | | | SEWER CODE 7550000 | | |

OWNER/DEVELOPER

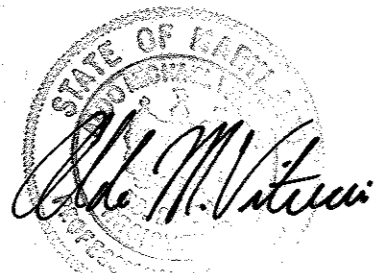
HAMILTON REED, LLC
 STEVE FORNEY
 8000 MAIN STREET
 ELLICOTT CITY, MD 21043
 410-461-2760
 KASHIF CHAUDHRY (LOT 7)
 4366 STONECREST DR
 ELLICOTT CITY MD 21043



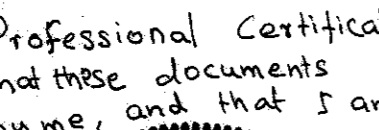
CHAMBERLAIN II



THE ABBEY



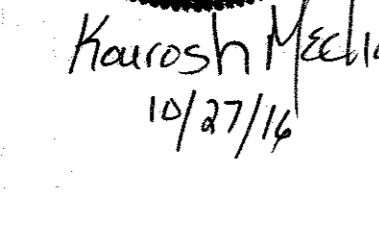
THE HILLSBOURGH



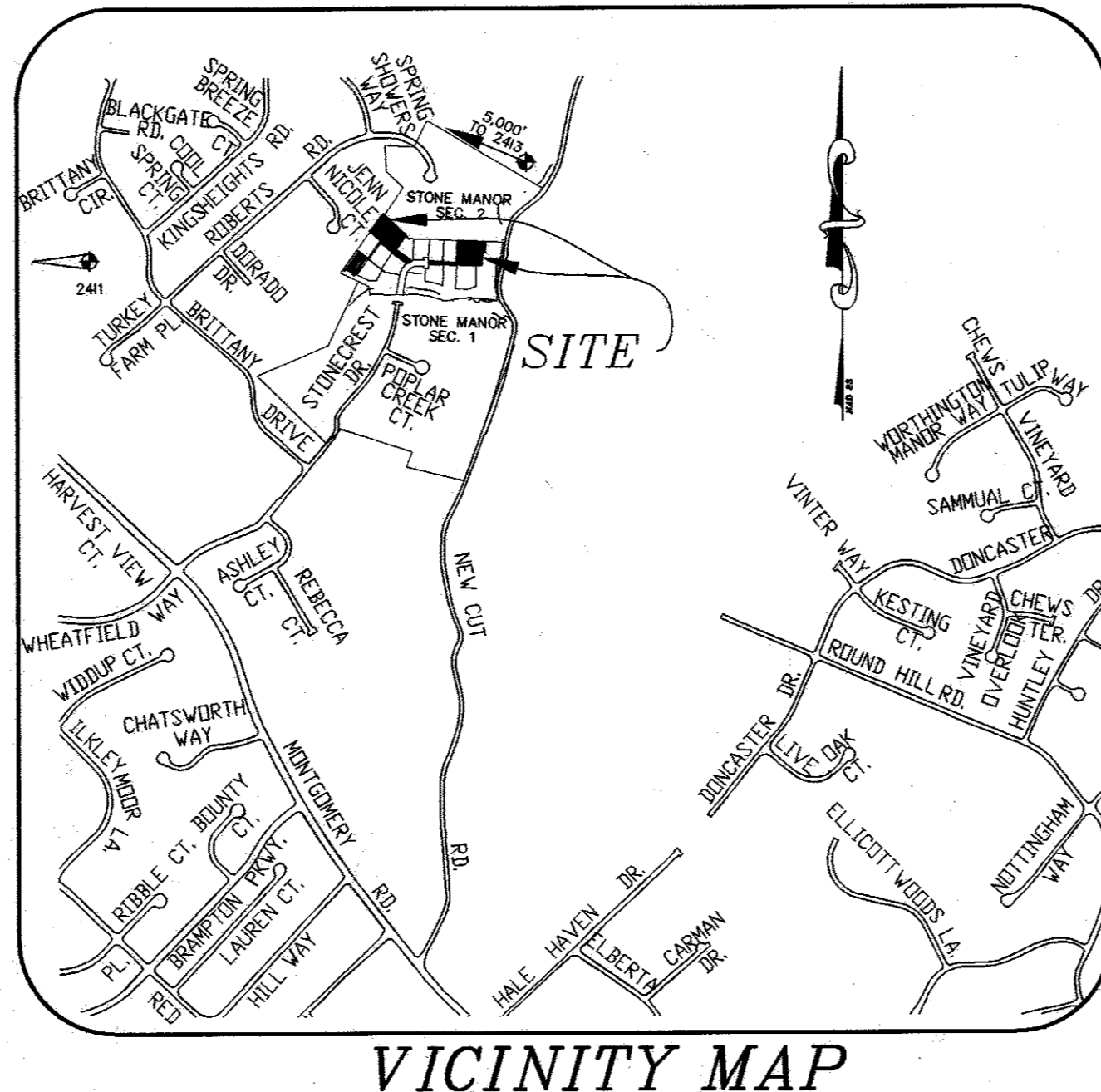
THE JAMES



ASHFORD 1

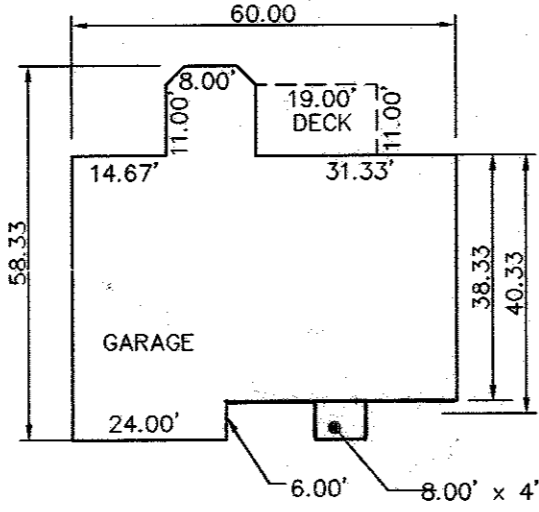


LOT 4

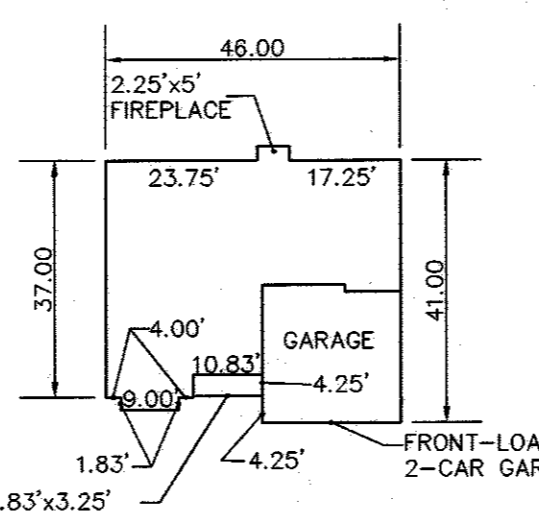


VICINITY MAP

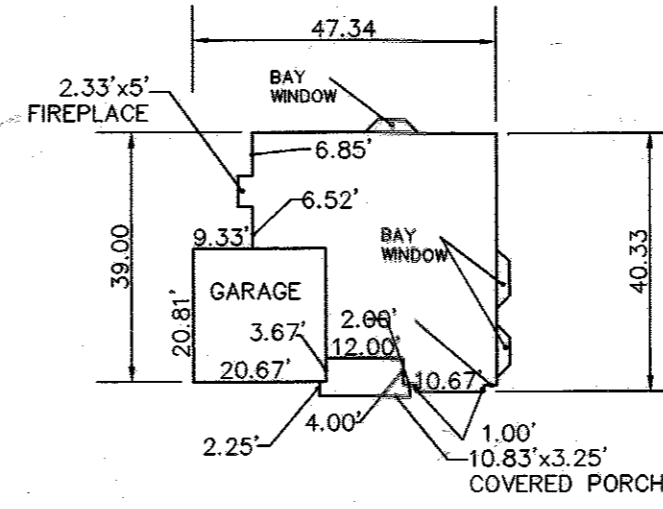
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 MD GRID: 12 F-12



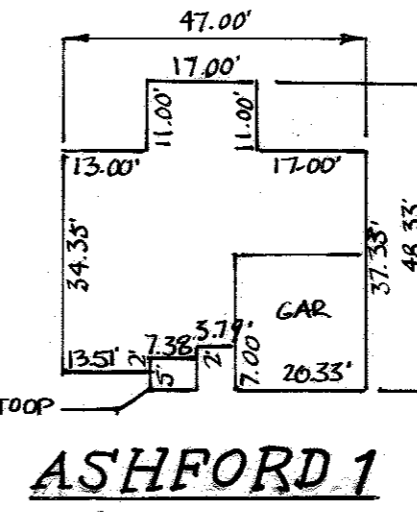
THE ABBEY



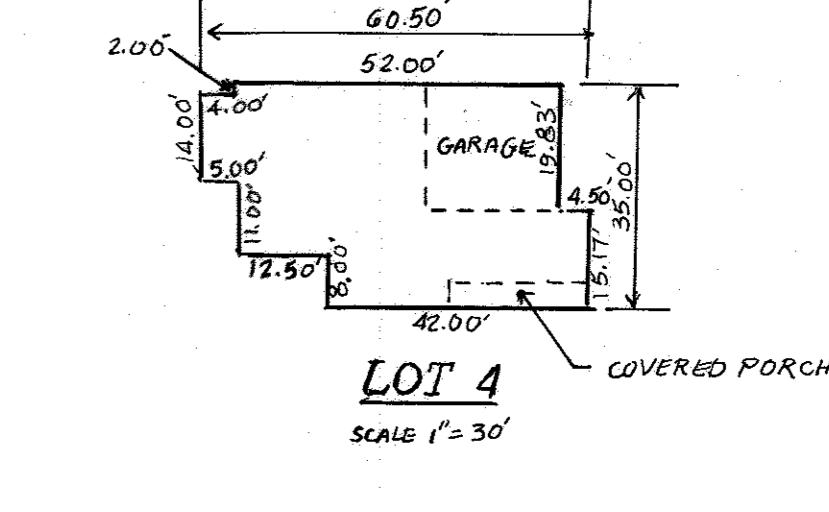
THE HILLSBOURGH



THE JAMES



ASHFORD 1



LOT 4

DEVELOPERS CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

STEPHEN F. FORNEY 9-11-07
 SIGNATURE OF DEVELOPER DATE
 PRINTED NAME OF DEVELOPER

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 NATURAL RESOURCE CONSERVATION SERVICE.

Jim Meyer 9-18-07
 SIGNATURE OF ENGINEER DATE
 R. JACOB HIKMAT
 PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Wahk P. Chatterjee 9-18-07
 SIGNATURE OF ENGINEER DATE
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

1/18/06
 DATE
 7/21/07
 DATE
 9/24/07
 DATE

1-6-06 For Redline No. 1
 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. 16270 Expiration Date: 11/18/2012

Karosh Mehmood
 10/27/16

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 No. 16270

| Project | date | description | scale | revision |
|---------|----------|-------------|--------|----------|
| 06-001 | SEP 2007 | engineering | 1"=30' | |
| MMT | MMT | MMT | MMT | approval |

| no. | revision | description | date |
|-----|---------------------------------|-------------|------|
| 5 | CHANGED SHEET NUMBERS | | |
| 4 | ADDED HOUSE TYPE LOT 4 | | |
| 3 | ADD. HSE MODEL ASHFOOD 1 | | |
| 2 | ADD. HSE TYPE LOT 6 | | |
| 1 | REV. ASS. LOT 7 BY F.C.C., INC. | | |

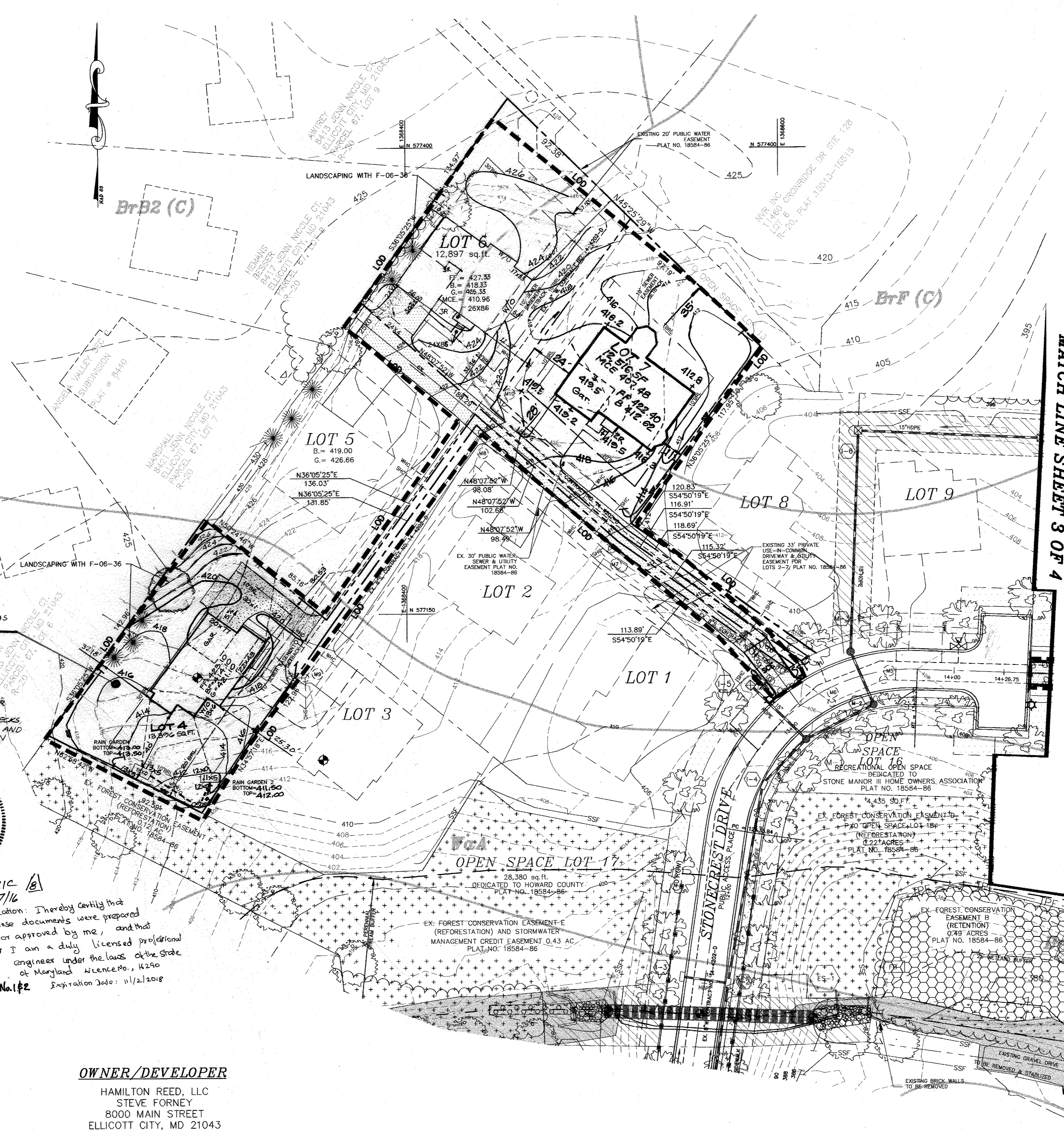
STONE MANOR SECTION 3
 LOTS 4, 6, 7, 12 AND 13 - SINGLE FAMILY DETACHED
 TAX MAP 25, GRID 19, PARCELS 68 & 69
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 COVER SHEET

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 200, Ellicott City, Maryland 21042
 (410) 997-0296 Fax: (410) 997-0298 Fax

SOILS CLASSIFICATION:
 BrB2 BRANDYWINE LOAM 3-8 PERCENT SLOPES, MODERATLY ERODED (C)
 BrD3 BRANDYWINE LOAM 15-25 PERCENT SLOPES, SEVERLY ERODED (C)
 WaA WATCHUNG SILT LOAM, 0-3 PERCENT SLOPES (D)
 BrF BRANDYWINE LOAM 25-60 PERCENT SLOPES (C)

LEGEND

- DENOTES WETLANDS
- 100 YR FLOODPLAIN EASEMENT
- FOREST CONSERVATION EASEMENT (RETENTION)
- FOREST CONSERVATION EASEMENT (REFORESTATION)
- DENOTES PROPOSED PAVED AREAS
- 25% SLOPES OR GREATER
- PUBLIC TREE MAINTENANCE EASEMENT
- EX. STORM DRAIN EASEMENT
- LANDSCAPING PROVIDED UNDER F-06-36.
- SOIL BORING



NOTE: 10' SEWER EASEMENT SETBACK WAS REDUCED TO 7' AS PER HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS APPROVAL. NO IMPROVEMENTS SHALL BE PERMITTED TO BE CONSTRUCTED OR PLACED WITHIN THE PUBLIC WATER, SEWER & UTILITY EASEMENTS THAT WILL IMPED OR HINDER ACCESS TO THE PUBLIC WATER AND SEWER MAINS. IMPROVEMENTS SUCH AS AIR CONDITIONING UNITS, DECKS, FENCING, FOUNDATION, PLANTINGS AND TREES SHALL NOT BE PLACED WITHIN THE EASEMENTS.

MATCH LINE SHEET 3 OF 4

MATCH LINE SHEET 3 OF 4

8 CHANGED SHEET NUMBERS 10/22/16
 7 REVISE GRADING LOTS TO REFLECT AS-BUILT COND. 4/9/13
 6 REVISE RAINGARDEN ELEV'S LOT 4 10/16/12

| no. | description | date |
|-----|--|----------|
| 5 | REVISE GRADING LOT 4 | 7/17/12 |
| 4 | SHED SPECIFIC HOUSE ON LOT 4 | 12-21-11 |
| 3 | SHED HOUSE ON LOT 6 AND REVISE GRADING | 6-15-11 |
| 2 | REV. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th. | 7-22-08 |
| 1 | REV. 1st. 2nd. 3rd. 4th. 5th. 6th. 7th. 8th. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th. | 1-9-09 |

STONE MANOR SECTION 3
 LOTS 4, 6, 7, 12 AND 13 - SINGLE FAMILY DETACHED
 TAX MAP 25, GRID 19, PARCELS 66 & 69
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SITE DEVELOPMENT PLAN

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 Engineers Planners Surveyors
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DEVELOPER'S CERTIFICATE
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Stephen F. Kravitz 9-11-07
 SIGNATURE OF DEVELOPER DATE
 STEPHEN F. KRAVITZ
 PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A REASONABLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

R. Jacob Hikmat 9/16/07
 SIGNATURE OF ENGINEER DATE
 R. JACOB HIKMAT
 PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim M. ... 9-18-07
 NSDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

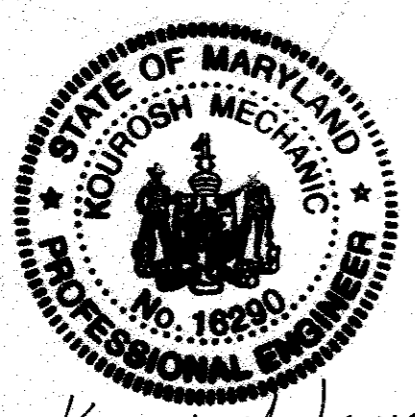
John R. ... 9-18-07
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

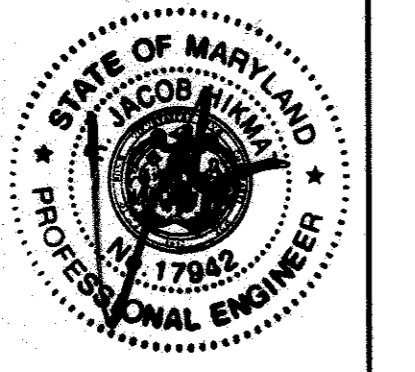
... 9/21/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

... 9/21/07
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

... 9/21/07
 DIRECTOR DATE



Kourash Mehanic
 10/27/16
 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. 4290 at Maryland Science Po., H290
 Expiration Date: 11/2/2018

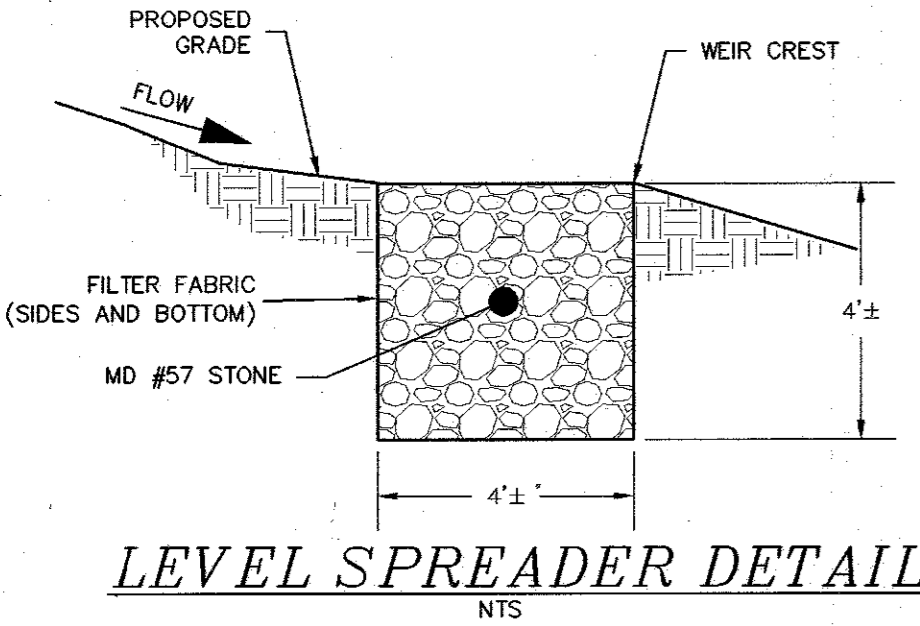


OWNER/DEVELOPER
 HAMILTON REED, LLC
 STEVE FORNEY
 8000 MAIN STREET
 ELLICOTT CITY, MD 21043
 410-461-2760
 KASHIF CHAUDHRY (LOT 7)
 4366 STONECREST DR
 ELLICOTT CITY MD 21043

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LEGEND

- DENOTES WETLANDS
- 100 YR FLOODPLAIN EASEMENT
- FOREST CONSERVATION EASEMENT (RETENTION)
- FOREST CONSERVATION EASEMENT (REFORESTATION)
- DENOTES PROPOSED PAVED AREAS
- 25% SLOPES OR GREATER
- PUBLIC TREE MAINTENANCE EASEMENT
- LANDSCAPING PROVIDED UNDER F-06-36.



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Steve Forney 9-11-07
SIGNATURE OF DEVELOPER DATE
STEVE FORNEY
PRINTED NAME OF DEVELOPER

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R. Jacob Hikmat 9/11/07
SIGNATURE OF ENGINEER DATE
R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Meyer 9-18-07
NSDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

Jim P. Blanton 9-18-07
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Paula A. Goble 9/10/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Paula A. Goble 9/21/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
Paula A. Goble 7/21/07
DIRECTOR DATE

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. 14290. Expiration Date: 11/12/2018.



R. Jacob Hikmat



NOTE:
NO IMPROVEMENTS SHALL BE PERMITTED TO BE CONSTRUCTED OR PLACED WITHIN THE PUBLIC WATER, SEWER AND UTILITY EASEMENTS THAT WILL IMPERE OR HINDER ACCESS TO THE PUBLIC WATER AND SEWER MAINS. IMPROVEMENTS SUCH AS AIR CONDITIONING UNITS, DECKS, FENCING, FOUNDATION PLANTINGS AND TREES SHALL NOT BE PLACED WITHIN THE EASEMENT.

SEE SHEET 5 FOR RETAINING WALL DETAILS
AVE WALL HEIGHT LOT 12 IS 4'6"
AVE WALL HEIGHT LOT 13 IS 6'6"
42" FENCE TO BE INSTALLED ON TOP OF EACH WALL, SEE SHEET 5
AS = ACCESSORY STRUCTURAL SETBACK

SOILS CLASSIFICATION:
BRB2 BRANDYWINE LOAM 3-8 PERCENT SLOPES, MODERATLY ERODED (C)
BD3 BRANDYWINE LOAM 15-25 PERCENT SLOPES, SEVERLY ERODED (C)
WGA WATCHING SILT LOAM, 0-3 PERCENT SLOPES (O)
BF BRANDYWINE LOAM 25-60 PERCENT SLOPES (C)

| | | | |
|--------------|----------|-------------|-----------|
| project | 08-001 | date | SEP. 2007 |
| illustration | MMT | engineering | MMT |
| scale | 1" = 30' | approval | MMT |

| | | | |
|-------------|--|----------|----------|
| no. | 3 | date | 10/27/16 |
| description | REV. LINE REV. ADDED WALLS TO LOTS 12 & 13 | revision | 15 |
| no. | 1 | date | 12/13/16 |
| description | REV. HOUSE MODEL ON LOT 13, ADD POLE | revision | 16 |
| no. | 1 | date | 10/20/16 |

STONE MANOR SECTION 3
LOTS 4, 6, 7, 12 AND 13 - SINGLE FAMILY DETACHED
TAX MAP 25, GRID 19, PARCELS 66 & 69
SECOND ELECTION DISTRICT
SITE DEVELOPMENT PLAN
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsy Hall Drive, Suite 202, Ellicott City, Maryland, 21042
(410) 997-0296 Fax (301) 621-5321 Wash. (410) 997-0298 Fax

HOWARD SOIL CONSERVATION DISTRICT

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1-1/2 TO 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) OF WEEDING LOVEGRASS.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 219 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 18.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 219 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT 'MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL', AND REVISIONS THERETO.

Table with 2 columns: Item, Description/Quantity. Includes site analysis: TOTAL AREA OF SITE: 1.62 ACRES, AREA DISTURBED: 1.62 ACRES, AREA TO BE ROOFED OR PAVED: 0.5 ACRES, AREA TO BE VEGETATIVELY STABILIZED: 1.12 ACRES, TOTAL CUT: 2,500 CU. YDS., TOTAL FILL: 2,500 CU. YDS., TOTAL WASTE/BORROW AREA LOCATION: N/A

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN 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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature of Developer: Steve E. Forney, dated 9-16-07

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A FEASIBLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature of Engineer: R. Jacob Hikmat, dated 9/16/07

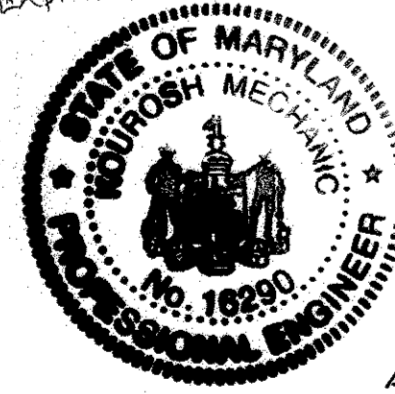
APPROVED: DEPARTMENT OF PLANNING AND ZONING, dated 9/16/07

APPROVED: CHIEF, DEVELOPMENT ENGINEERING DIVISION, dated 9/18/07

APPROVED: CHIEF, DIVISION OF LAND DEVELOPMENT, dated 9/18/07

APPROVED: DIRECTOR, dated 9/16/07

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. 16290, Expiration Date: 11/12/2018



Signature of Kourosh Mehanic

OWNER/DEVELOPER

HAMILTON REED, LLC STEVE FORNEY 8000 MAIN STREET ELLICOTT CITY, MD 21043 410-461-2760 KASHIF CHAUDHRY (LOT 7) 4366 STONECREST DR ELLICOTT CITY MD 21043

- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED BEFORE COMPLETION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICES APPLIES

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH. b. 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. c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH. d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

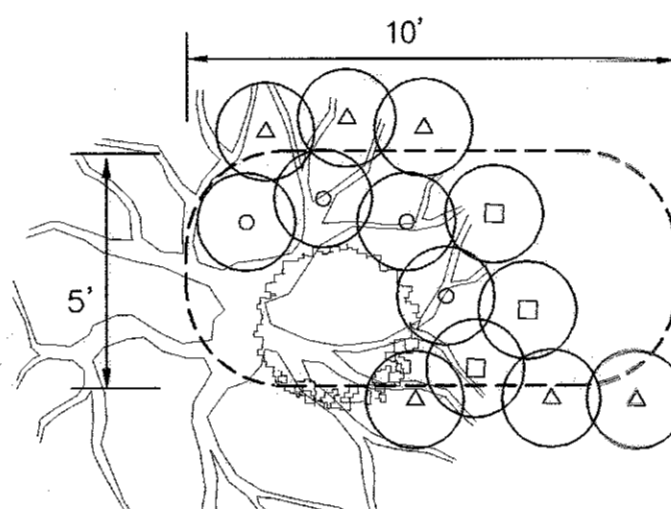
- I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING: i. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CON-TRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF ONDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

TEMPORARY DUST CONTROL MEASURES

- 1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- 3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS APCED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- 4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.

SEQUENCE OF CONSTRUCTION

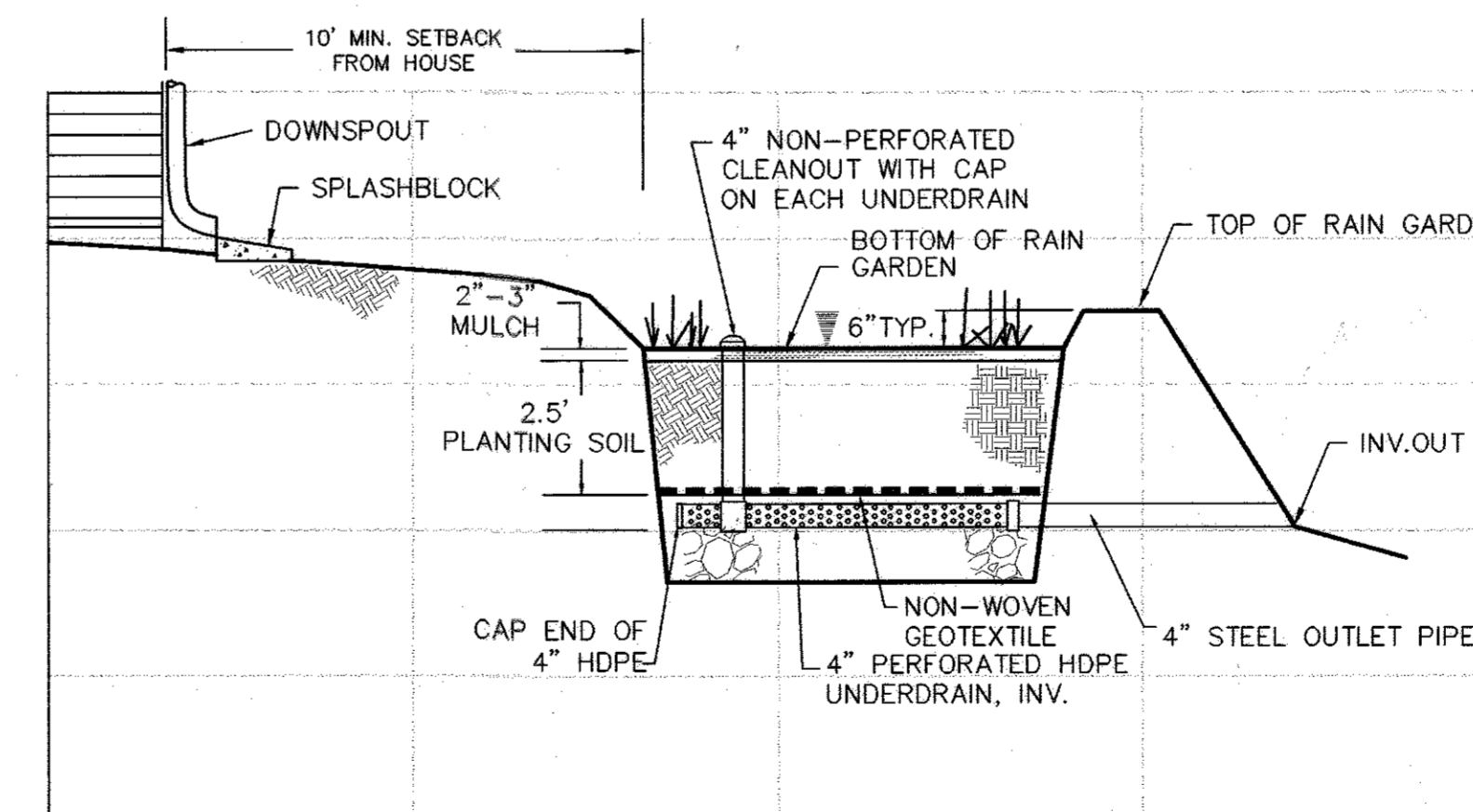
- 1. OBTAIN GRADING PERMIT (1 DAY).
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (1 DAY).
- 3. CONSTRUCT SILT FENCES AND SUPER SILT FENCES (2 DAYS).
- 4. CONSTRUCT SITE TO GRADES INDICATED WITH PERMISSION FROM INSPECTOR BEFORE PROCEEDING (10 DAYS).
- 5. CONSTRUCT HOUSES (90 - 180 DAYS).
- 6. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED (2 DAYS).
- 7. SEED AND MULCH ALL REMAINING DISTURBED AREAS (1 DAY).
- 8. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED, AND WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS (ONE DAY).



TYP. RAIN GARDEN DETAIL SCALE: NTS

OPERATION AND MAINTENANCE SCHEDULE FOR RAIN GARDENS

- A. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
- B. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRKS.
- C. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- D. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.



TYPICAL 5' x 10' RAIN GARDEN PROFILE NTS

RAINGARDEN INFORMATION

Table with columns: RAINGARDEN, LOCATION, DIMENSIONS, BOTTOM OF RAINGARDEN ELEVATION, TOP ELEVATION, INV OUT. Lists two rain garden locations with their respective elevations and dimensions.

NOTE: BIO SOIL SHOULD NOT BE LESS THAN 18" DEEP WHEN REPLACED DURING FUTURE MAINTENANCE.

EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- 2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- 3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
- 4. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY.
- 5. IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- 6. THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO ENSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- 7. ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

Table for SUPER SILT FENCE design criteria, showing slope, slope steepness, slope length, and silt fence length for various conditions.

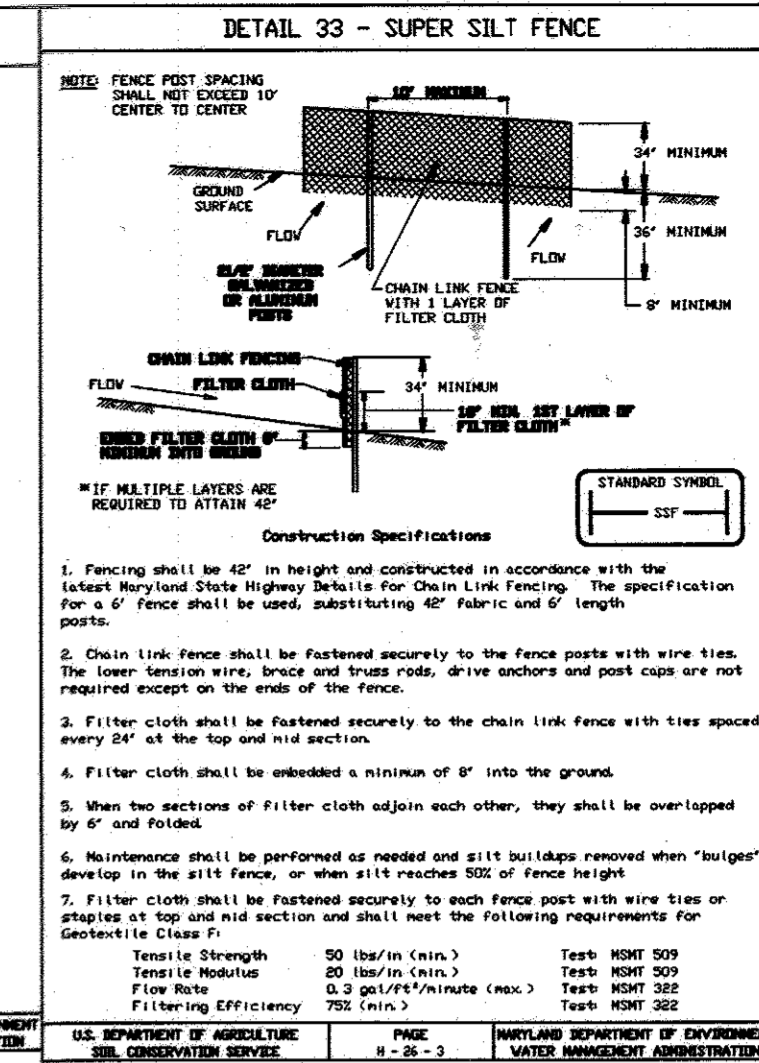
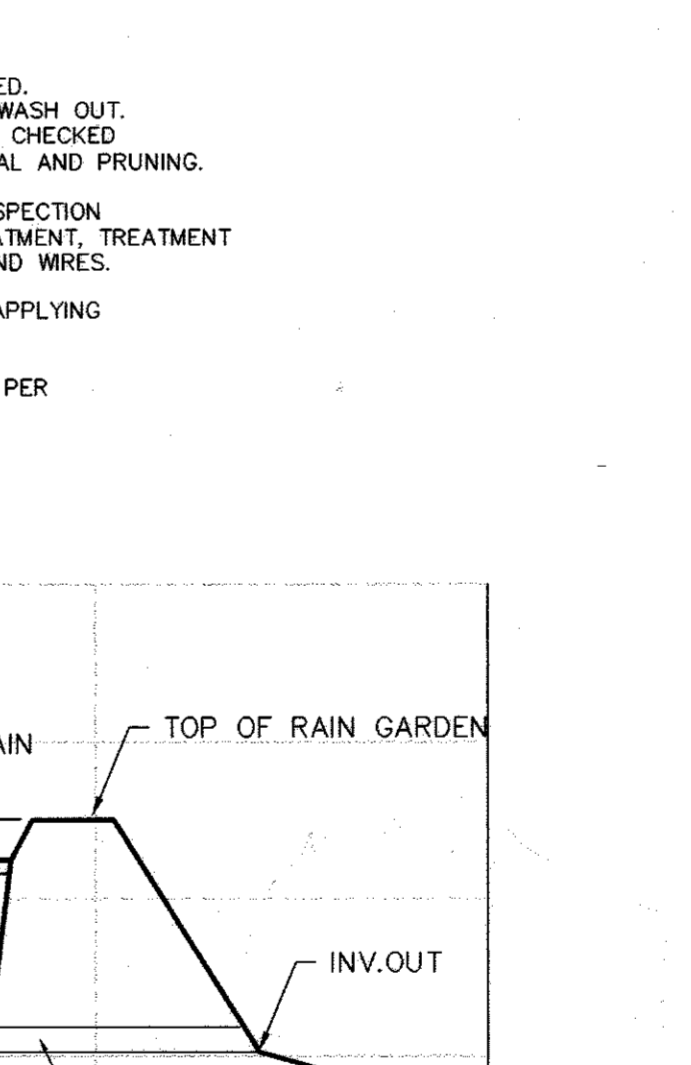
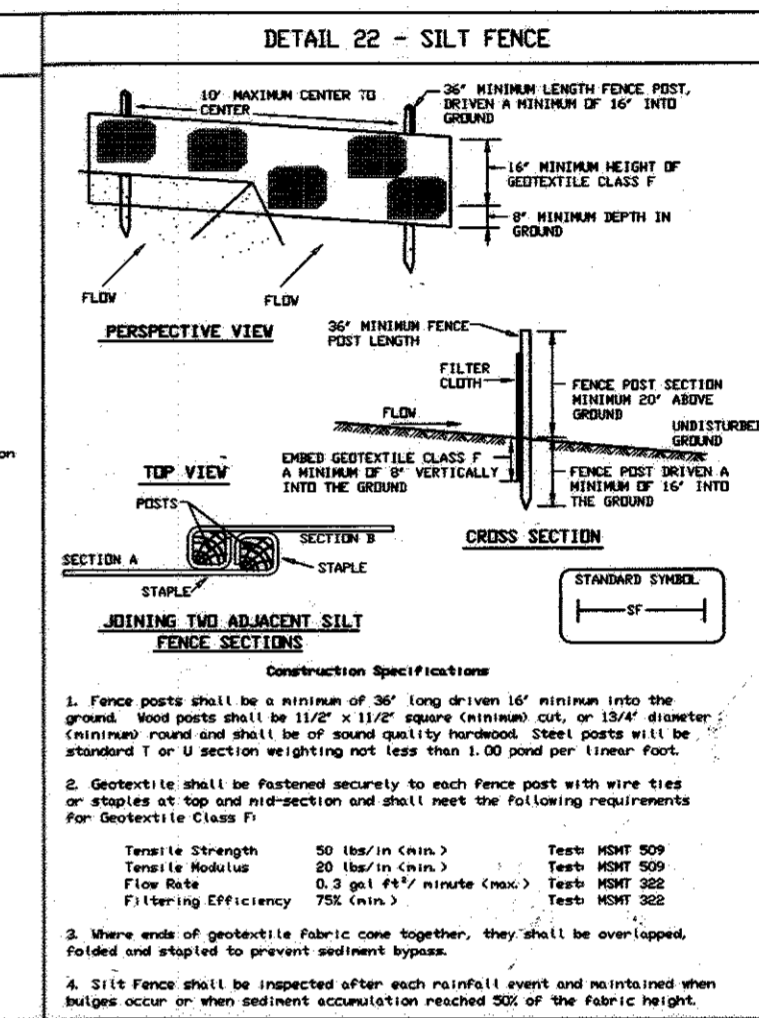


Table for SILT FENCE design criteria, showing slope steepness, slope length, and silt fence length for various conditions.



PLANT LIST

Table with columns: QUANTITY, SYMBOL, BOTANICAL NAME, COMMON NAME, SIZE. Lists plants like Platanus occidentalis, Ilex glabra, Lobelia siphilitica, Onoclea sensibilis, and Aster novae-angliae.

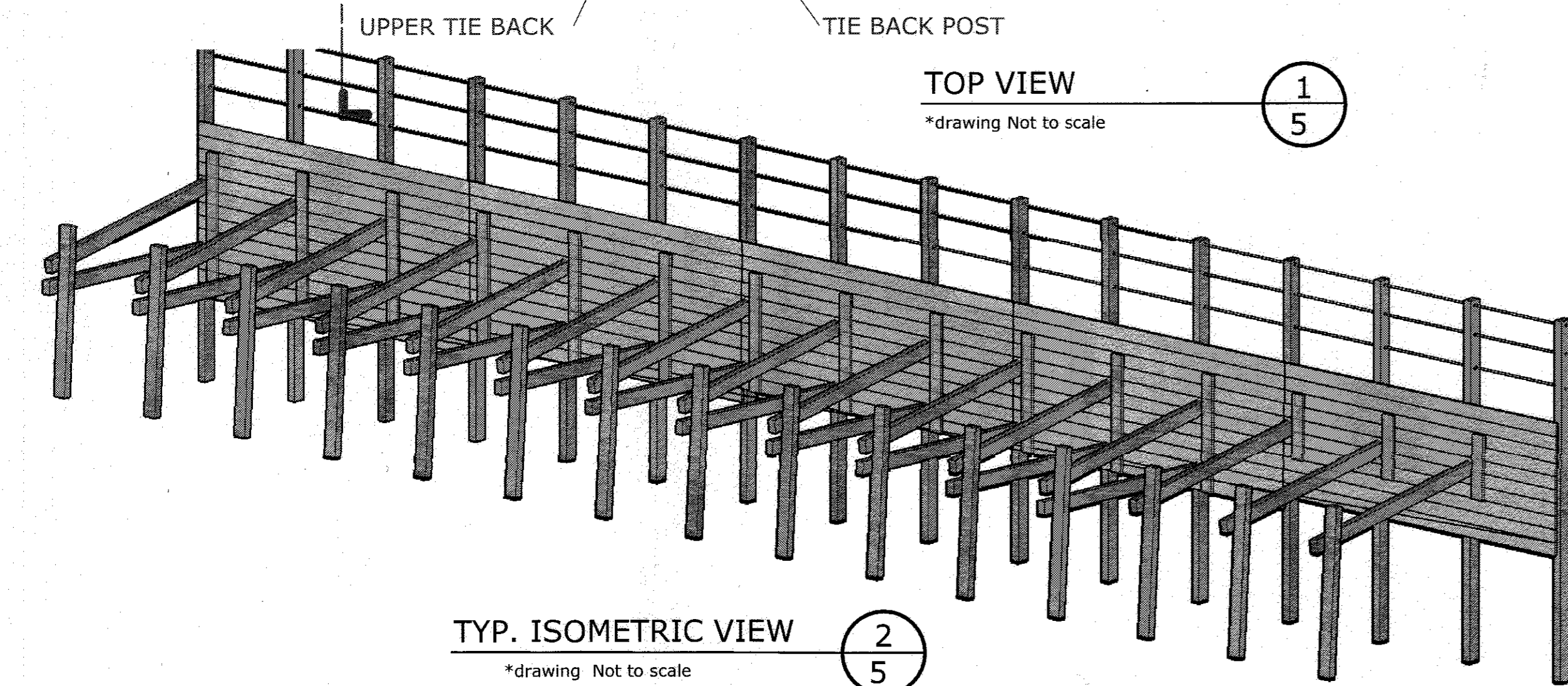
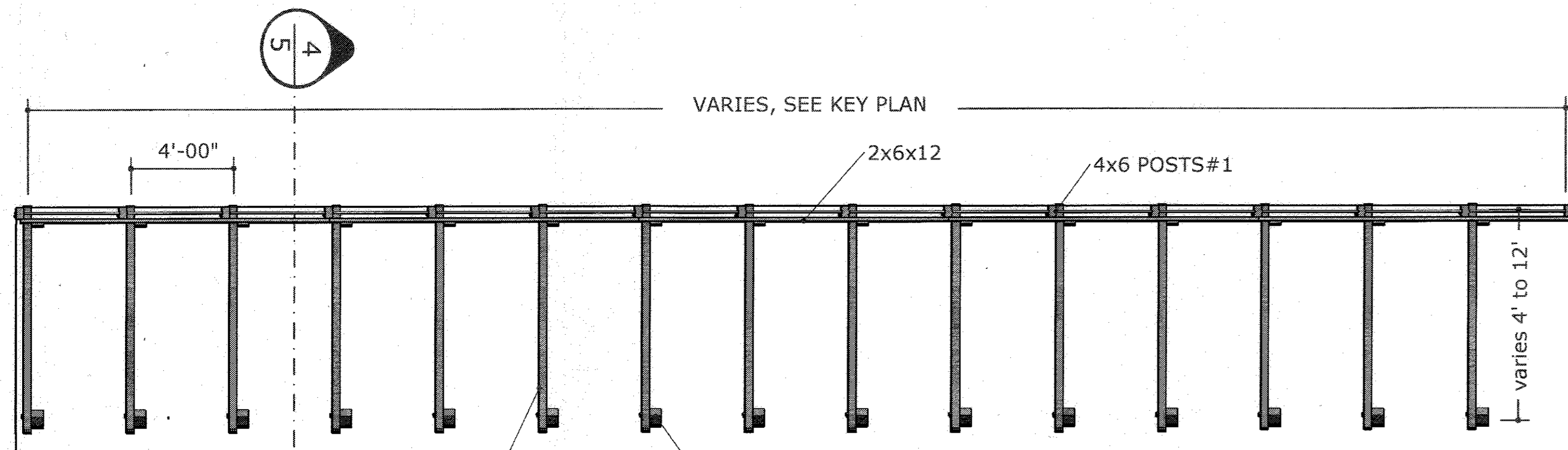
TOTAL: 13 PERENNIALS, 1 SHRUB, 1 TREE (PER EACH RAIN GARDEN)

Project information table: Project 06-001, Date 09/16/07, Scale NTS, etc.

CHANGED SHEET NO. 2, REVISED RAIN GARDEN CHART, 10/17/12, 10/16/12

STONE MANOR SECTION 3 LOTS 4, 6, 7, 12 AND 13 - SINGLE FAMILY DETACHED, TAX MAP 25, GRID 19, PARCELS 66 & 69, SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND, EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

MILDENBERG, BOENDER & ASSOC., INC., Engineers Planners Surveyors, 5072 Dressy Hill Drive, Suite 202, Ellicott City, Maryland, 21042, (410) 997-0286



CERTIFICATION:

KOUROSH MECHANIC 4346 STONECREST DR.
 ELLICOTT CITY MD 21043 CERTIFIES CONSTRUCTION WILL BE
 INACCORDANCE TO THESE PLANS.

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. ,
 Expiration Date 11/12/2018



Kourosh Mechanic

APPROVED: DEPARTMENT OF PLANNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION **DATE**

Chad Anderson 12-1-16

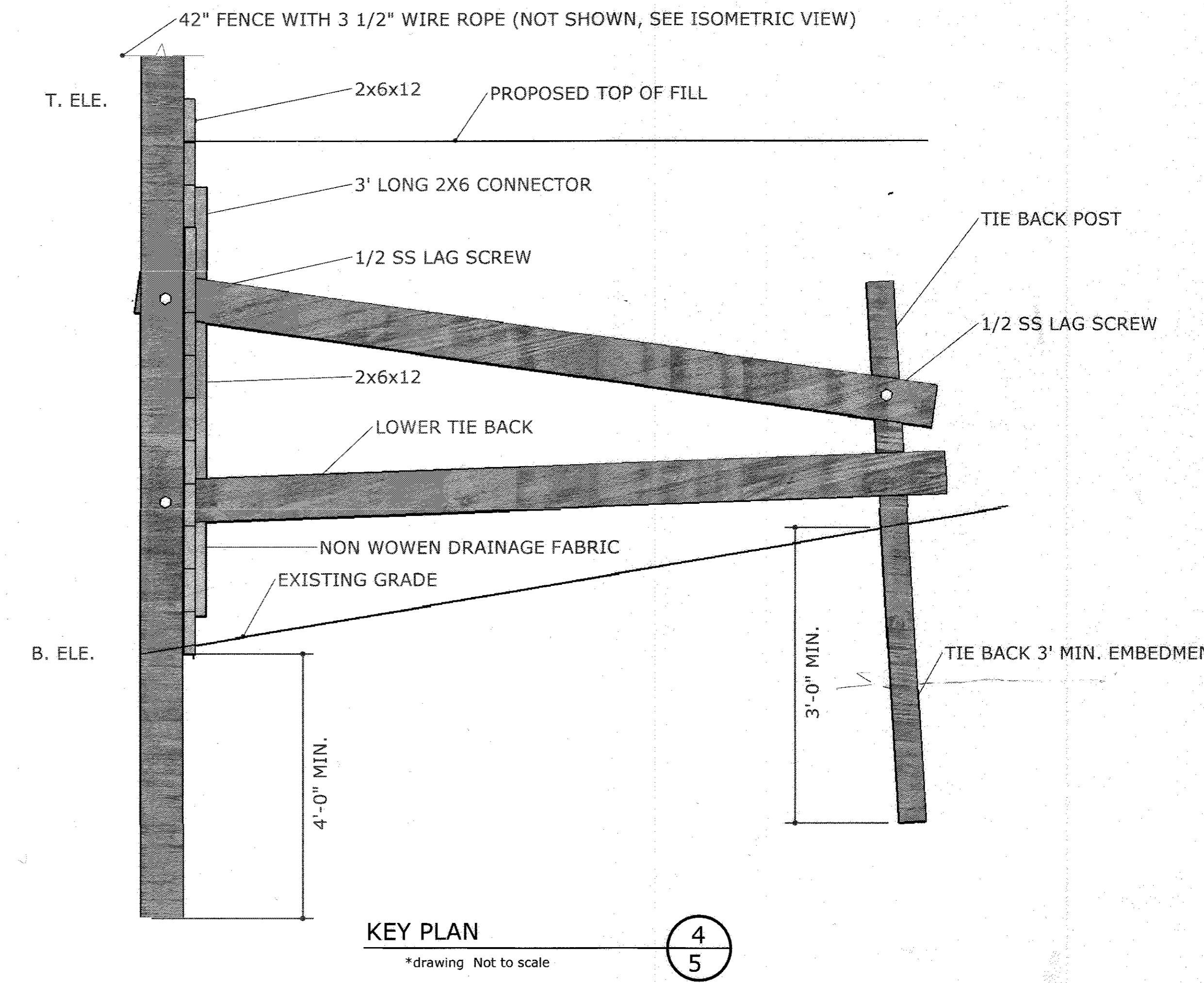
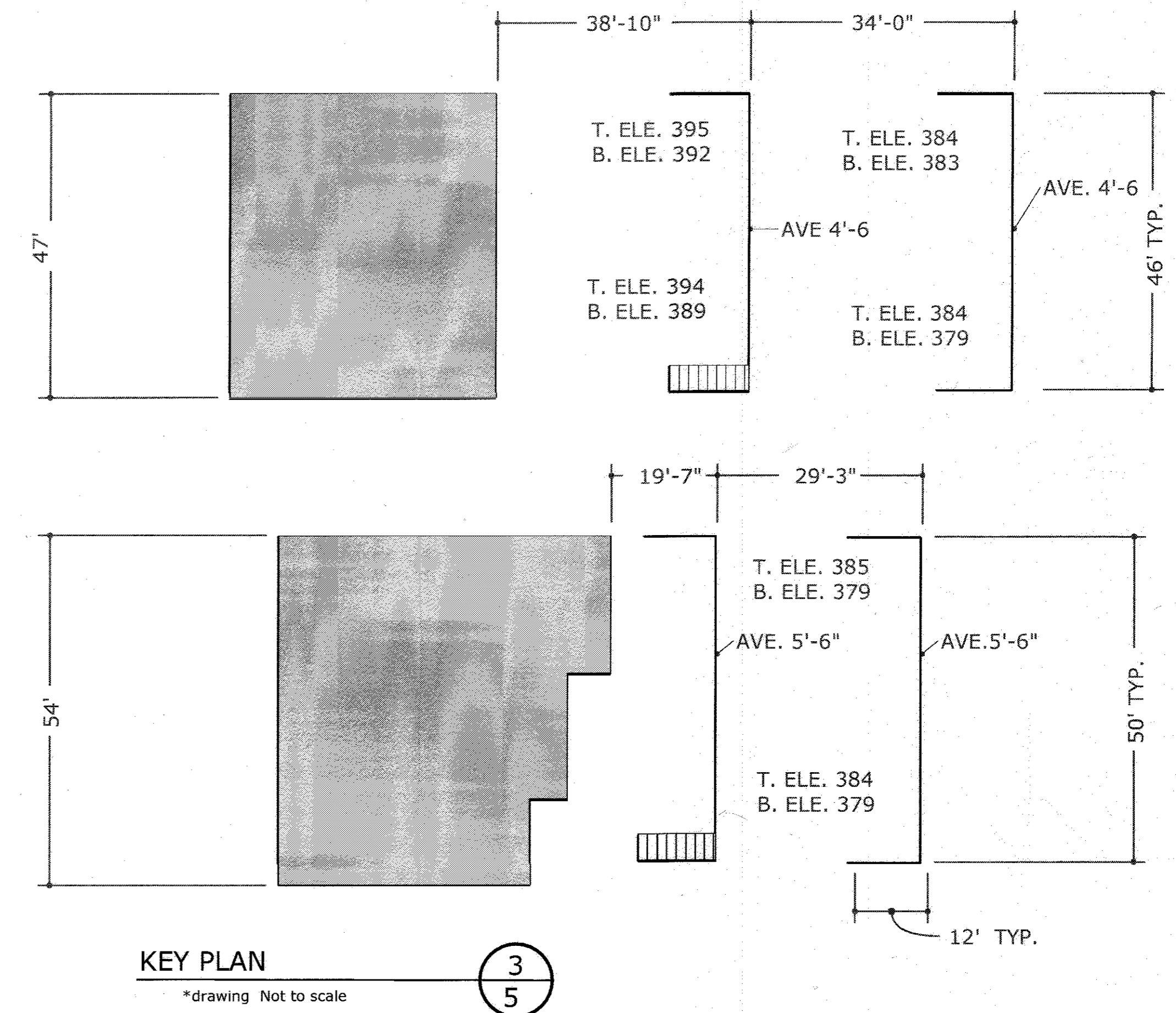
CHIEF, DIVISION OF LANDDEVELOPMENT **DATE**

Kent Shulash 12-06-16
William J. J. J. 12-6-16
DIRECTOR **DATE**

Construction Notes:

- (a) Retaining walls shall only be constructed under the observation of a Registered Professional Engineer and a (NICET, WACEL or equivalent) certified soils technician.
- (b) The required bearing pressure beneath the footing of the wall shall be verified in the field by a certified spoils technician. Testing documentation shall be provided to the Howard County Inspector prior to the start of construction. The required test procedure shall be the Dynamic Cone Penetrometer Test ASTM STP-399.
- a. The suitability of fill material shall be confirmed by the onsite soils technician. Each eight (8) inch lift shall be compacted to a minimum of 95% Standard Procter Density and the testing report shall be made available to the Howard County Inspector upon completion of construction.
- (d) For "CRITICAL" walls, one soil boring shall be required every 100' along the entire length of the wall. Copies of all boring reports shall be provided to the Howard County Inspector prior to the start of construction.
- (e) If no surcharge loads are considered add a note to the cross section details stating, "THIS WALL NOT DESIGNED FOR SURCHARGE LOADS."

| No. | Description | Date |
|-----|-------------|------|
| | Revision | |



STRUCTURES R US
 BY: CYRUS MECHANIC P.E.
 6085 MARSHALLEE DR. SUITE 100
 ELKRIDGE MD 21075

STONE MANOR SECTION 3
 LOT 12 AND 13
 TAX MAP 25, GRID 19, PARCEL 68 & 69

LOTS 12 AND 13 RETAINING WALL DETIAL
 REDLINE FOR GRADING AT
 STONE MANOR SECTION 3

SHEET 5 OF 5
SDP 07049