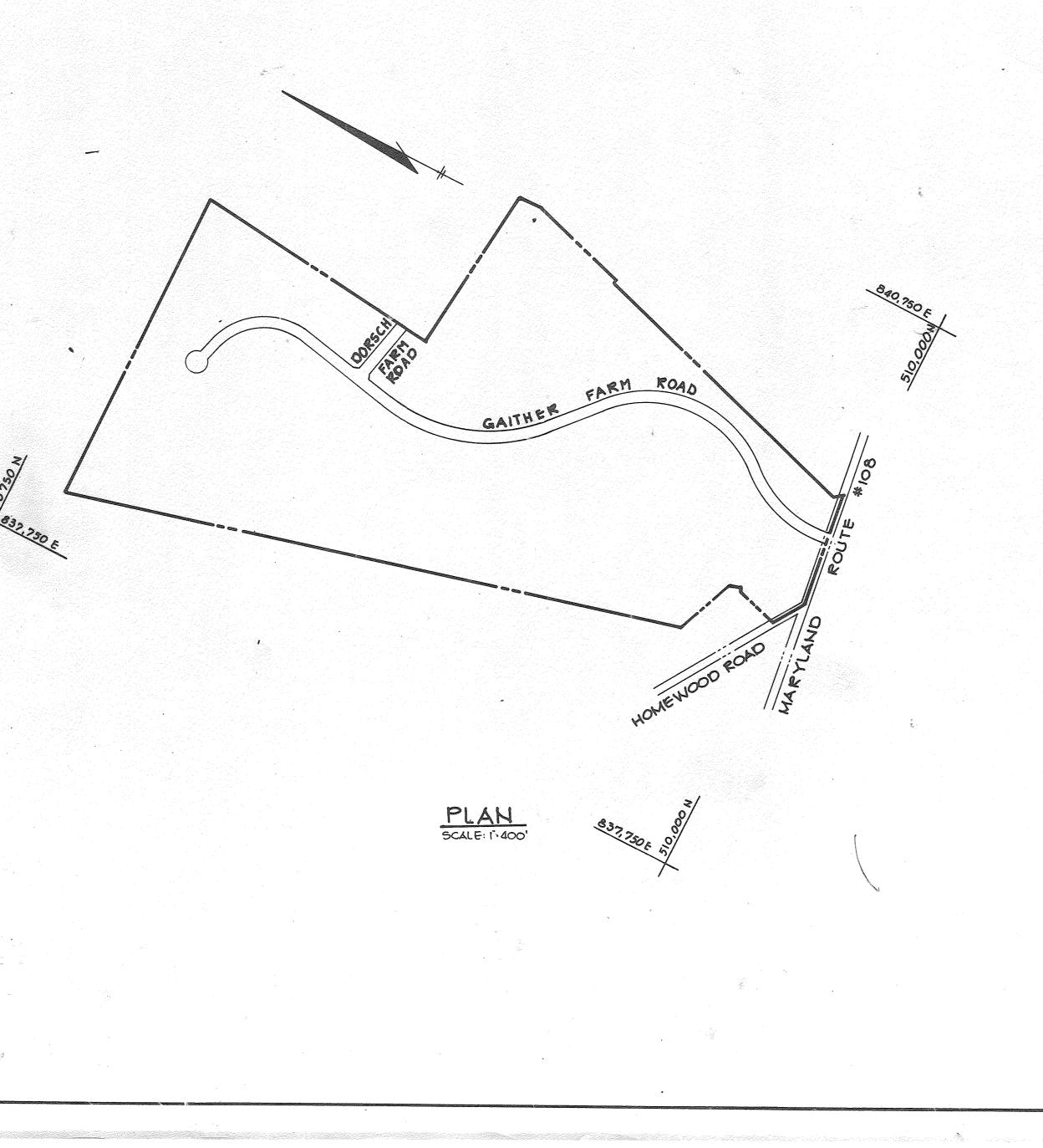
| | SHEET INDEX | |
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| | Nº DESCRIPTION | |
| the second s | I TITLE SHEET | |
| | 2 PLANS AND PROFILES - GAITHER FARM ROAD & MD RT. * 108 | |
| | 3PLANS AND PROFILES - GAITHER FARM ROAD4PLANS AND PROFILES - GAITHER FARM ROAD | |
| | 5 PLANS AND PROFILES GAITHER FARM ROAD & DORSCH FARM RD. | |
| Ļ | G PROFILES AND DETAILS 7 GRADING AND SEDIMENT CONTROL | 2 |
| | 7 GRADING AND SEDIMENT CONTROL 8 GRADING AND SEDIMENT CONTROL | |
| | 9 DRAINAGE AREA MAP | |
| A | 10 DRAINAGE AREA MAP 11 FOREDT PLAN LOT 15 | |
| | 12 SITE AND GRADING PLAN | $\mathbf{\Gamma}$ |
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| | | 이상에 가지 가장되었다. 이 이 것 이 것 이 생각 사람 |
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| | CENEDAL NOTEC | TTA |
| | GENERAL NOTES | |
| and the second | ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. | |
| | 2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED | |
| | SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. | |
| | THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. | |
| | 4. CONTRACTOR SHALL NOTIFIY THE FOLLOWING UTILITIES AT LEASE FIVE (5) DAYS BEFORE STARTING | |
| | WORK ON THESE DRAWINGS: MISS UTILITY 559-0100 | |
| | BELL TELEPHONE SYSTEM 393-3649 | |
| | BALTIMORE GAS AND ELECTRIC COMPANY 539-8000, ext. 691 | |
| | HOWARD COUNTY BUREAU OF UTILITIES HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCE- | |
| se- | MENT OF WORK) 792-7272 | |
| | 5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS. | |
| | ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN | |
| - With the second | ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. | |
| | & INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE | |
| | WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION. 9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH | |
| | STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD. | |
| | 10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS: | |
| | ALL 50' RIGHT-OF-WAYS 30 M.P.H. | |
| | 11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929. | |
| | 12. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION. | |
| | 13. ALL PIPE ELEVATIONS SHOWN ARE INVERT \checkmark ELEVATIONS. | |
| | 14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS. | |
| | 15. SUBJECT PROPERTY ZONED R-SA PER 10-03-77 COMPREHESIVE ZONING PLAN. 16 TOPO TAKEN FROM FIELD RUN SURVEY DATED AUGUST , 1985 BY THE RIEMER GROUP, INC. | |
| | 17. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE. | 513750 |
| | 18. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4. VOLUME I OF | 5/83 |
| | HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED. 19. SEE OFFICE OF PLANNING AND ZONING FILE NO'S 5-85-43 AND P-86-10. | |
| | 20. UTILITY POLE RELOCATION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. | |
| | 21. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND THE ROAD RIGHT-OF-WAY LINE | |
| | 22. CULVERT WILL BE CONSTRUCTED UNDER EACH DRIVEWAY FOR EACH LOT TABULATED BELOW AT THE TIME OF BUILDING CONSTRUCTION. | |
| | LOT * CULVERT SIZE TYPE | |
| | 10 12" R.C.C.P. 20 15" R.C.C.P. | |
| | 21 12" RCC.P. 24 12" R.CC.P. | |
| Non-Antoine States | 25 12" RCCP | |
| | 1 15" K.C.P. | |
| | | |
| | | |
| Non-Antonia Antonia Antonia Antonia | | |
| | 1 Stand Stand | |
| | 1/28/23 | |
| 10000000000000000000000000000000000000 | KNONS-/E | |
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| | FOR REVISION #2 ON | <u>الر</u> |
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| | 2 Power electronic III | |
| | 2 REVISE SHEET INDEX TO ADD SHT. 12 1/20/23 A REVISE SHEET INDEX TO REPLECT ADDO SHOT, REV. SHEET NO. 7/0/20 | ° |

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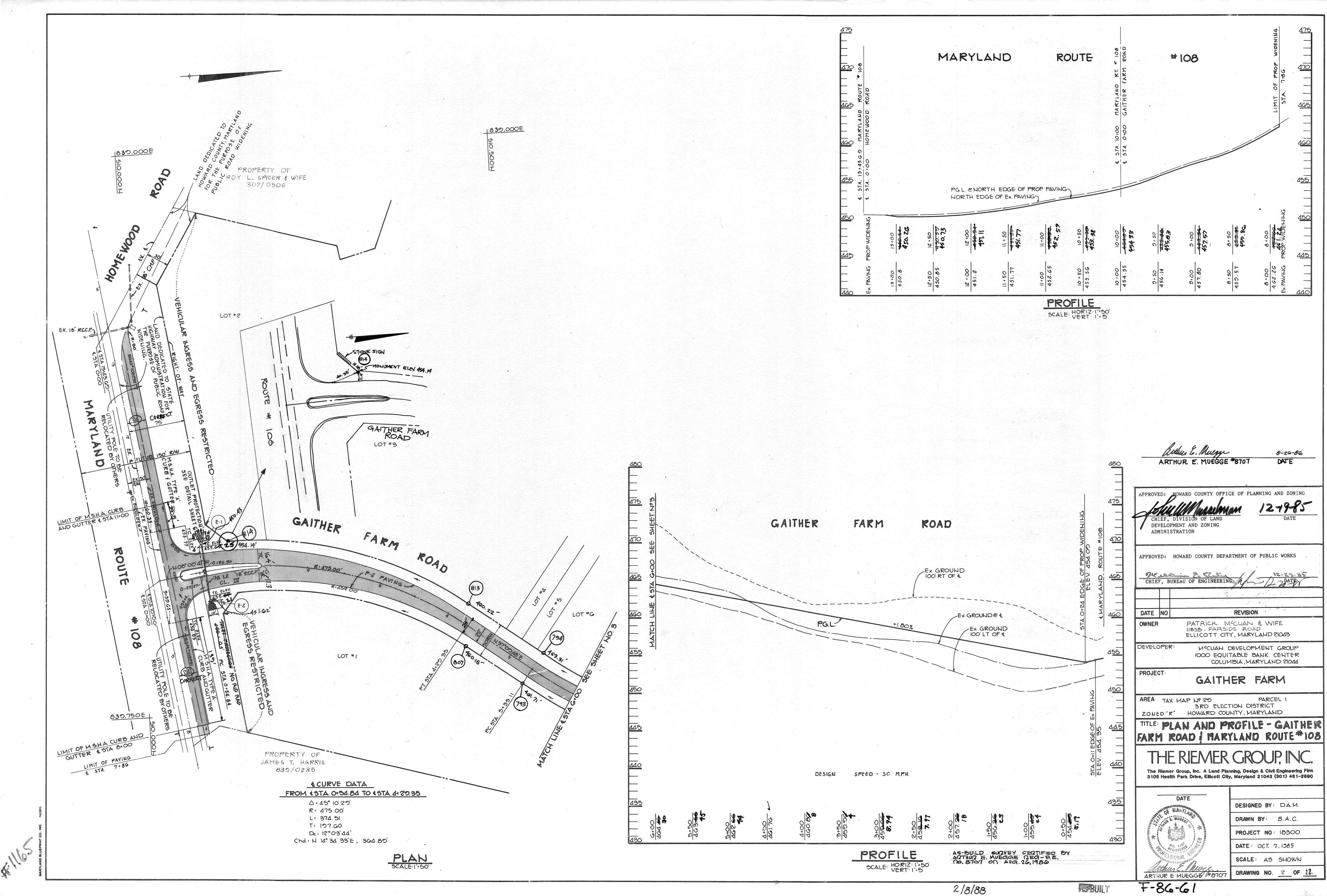
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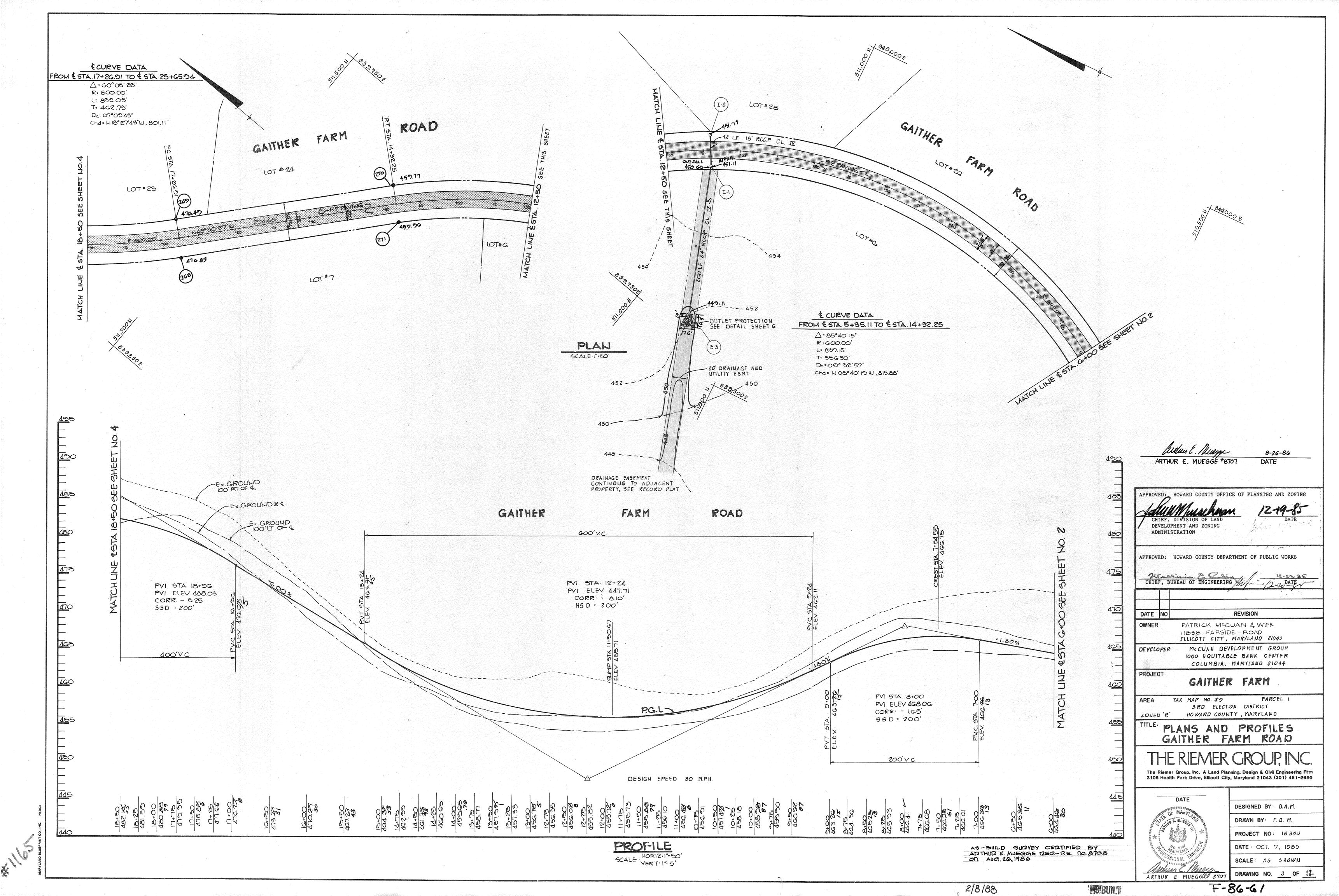
AS BUILT OF ROADWAYS & STORM DRAINS GAITHER FARM ELECTION DISTRICT NO. 3 IOWARD COUNTY, MARYLAND

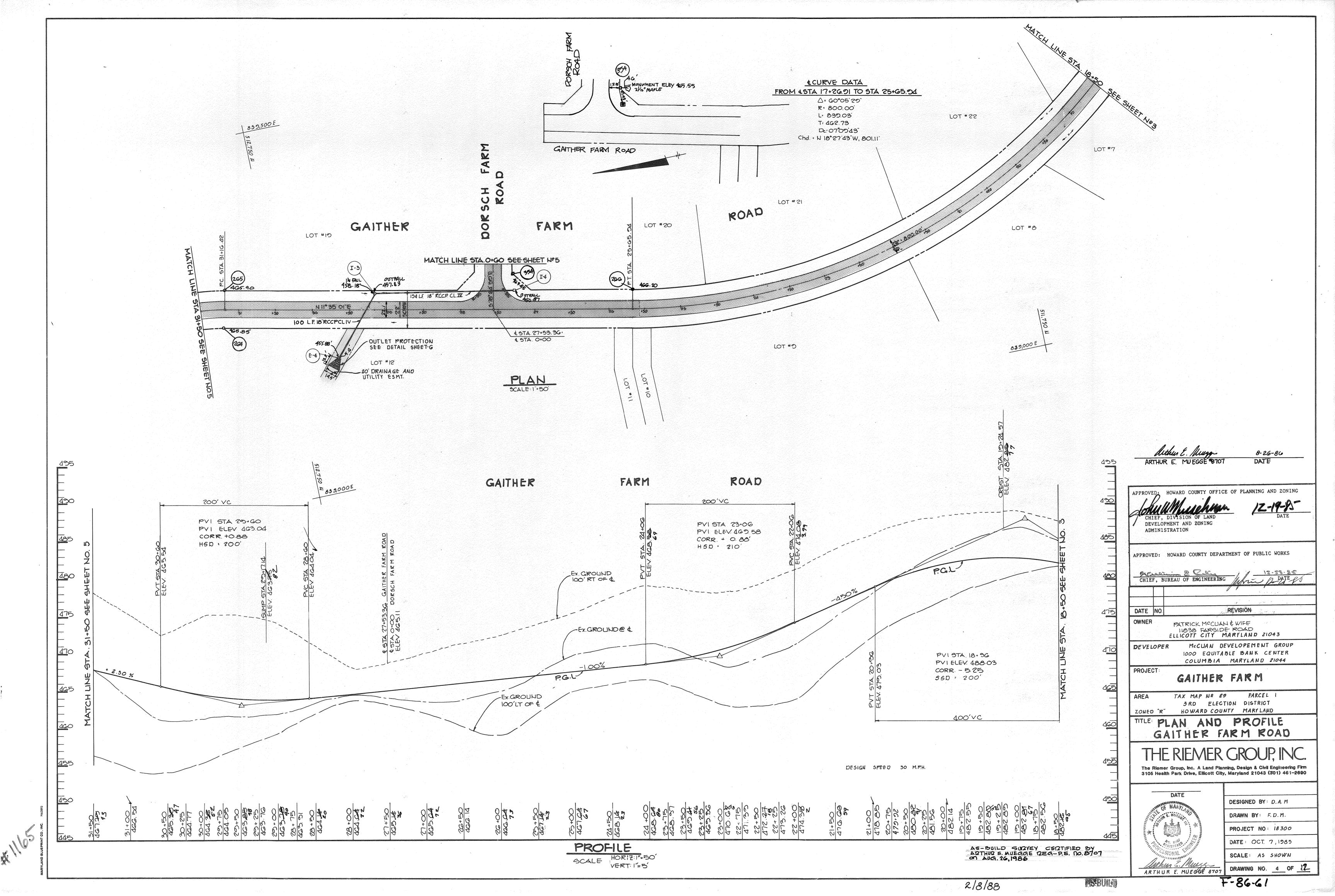


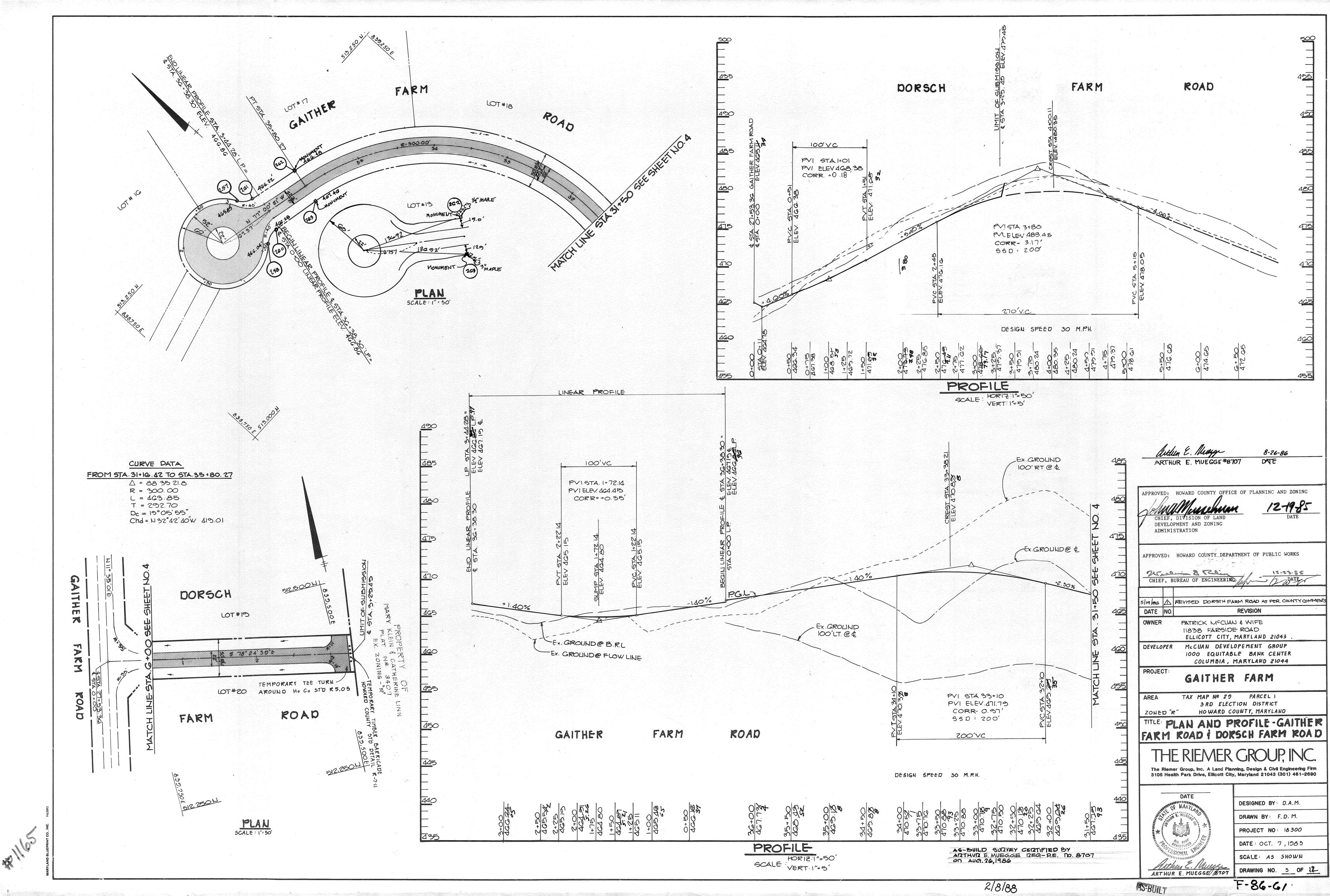
PROJEC SCALE: 1" · 2000' BENCH MARKS ELEV. 478.67 10. Co. BM 283904 CONCRETE MONUMENT & SURFACE 105' + NORTH OF & ROUTE 108 AND 50' OF & EXIT FROM HOWARD VOCATIONAL TECHNICAL CENTER. ELEV. 166.54 HO.CO. BM 2839005 CONCRETE MONUMENT O.2' BELOW SURFACE 8'1 SOUTH OF EDGE OF ROUTE"108 AND 190'1 EAST OF & OF ROAD TO HARPERS CHOICE, COLUMBIA. HOWARD COUNTY OFFICE OF PLANNING AND ZONING 12-19-85

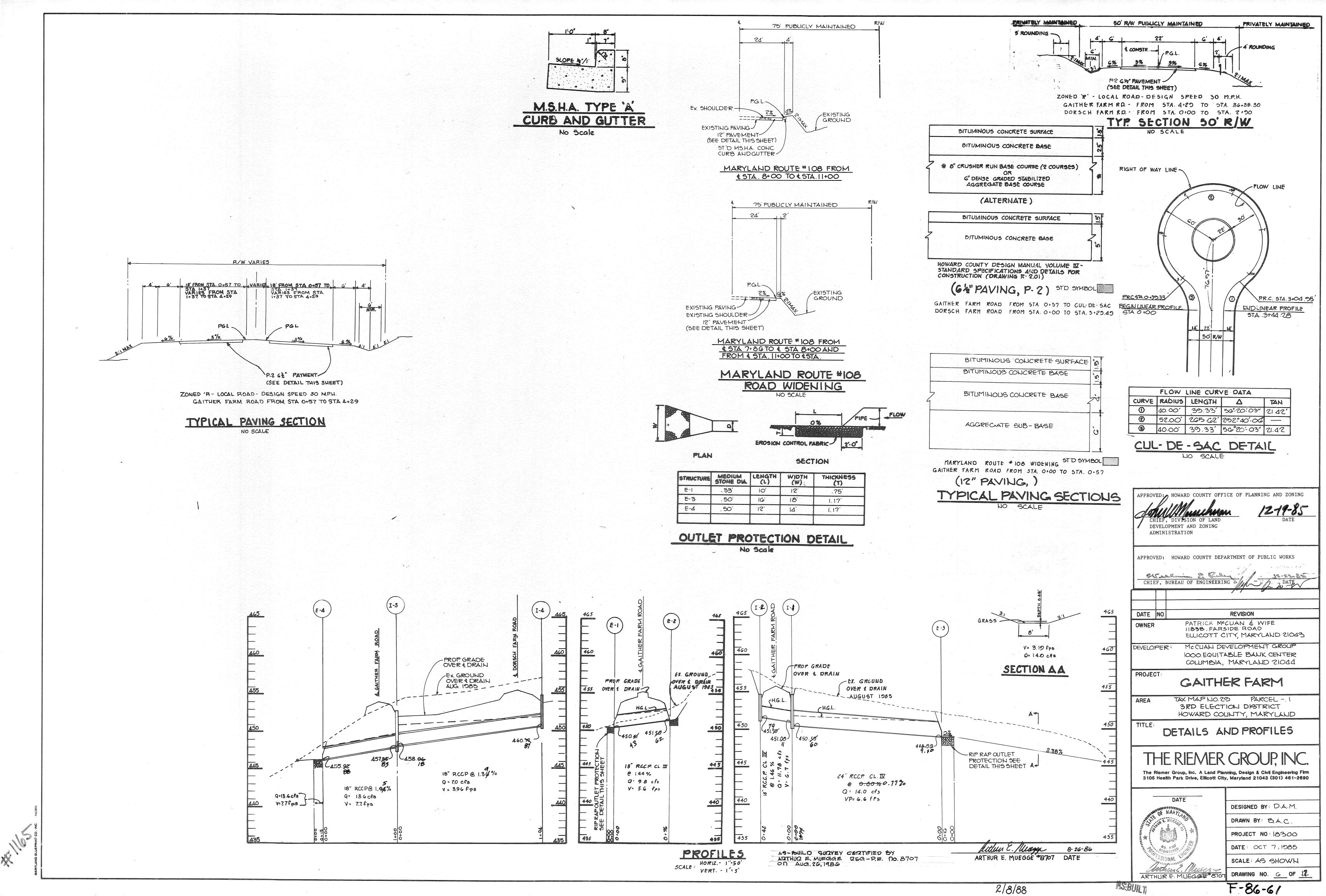
DEVELOPMENT AND ZONING ADMINISTRATION APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS Naisim CHIEF, BUREAU OF ENGINEERI DATE NO. REVISION PATRICK MCCUAN & WIFE 11838, EARGIDE ROAD OWNER ELLICOTT CITY, MARYLAND 21043 DEVELOPER: MCCUAN DEVELOPMENT GROUP 1000 EQUITABLE BANK CENTER COLUMBIA, MARYLAND 21044 PROJECT GAITHER FARM AREA TAX MAP Nº 20 PARCEL I 3" ELECTION DISTRICT-HOWARD COUNTY, MARYLAND ZONED "R" TITLE TITLE SHEET THE RIEMER The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690 DATE DESIGNED BY : J.D.P DRAWN BY: JCJ PROJECT NO: 18300 DATE: OCT. 7, 1985 SCALE: AS SHOWN DRAWING NO. 1 OF 122 ARTHUR E. MUEGGE 8707 F-86-61

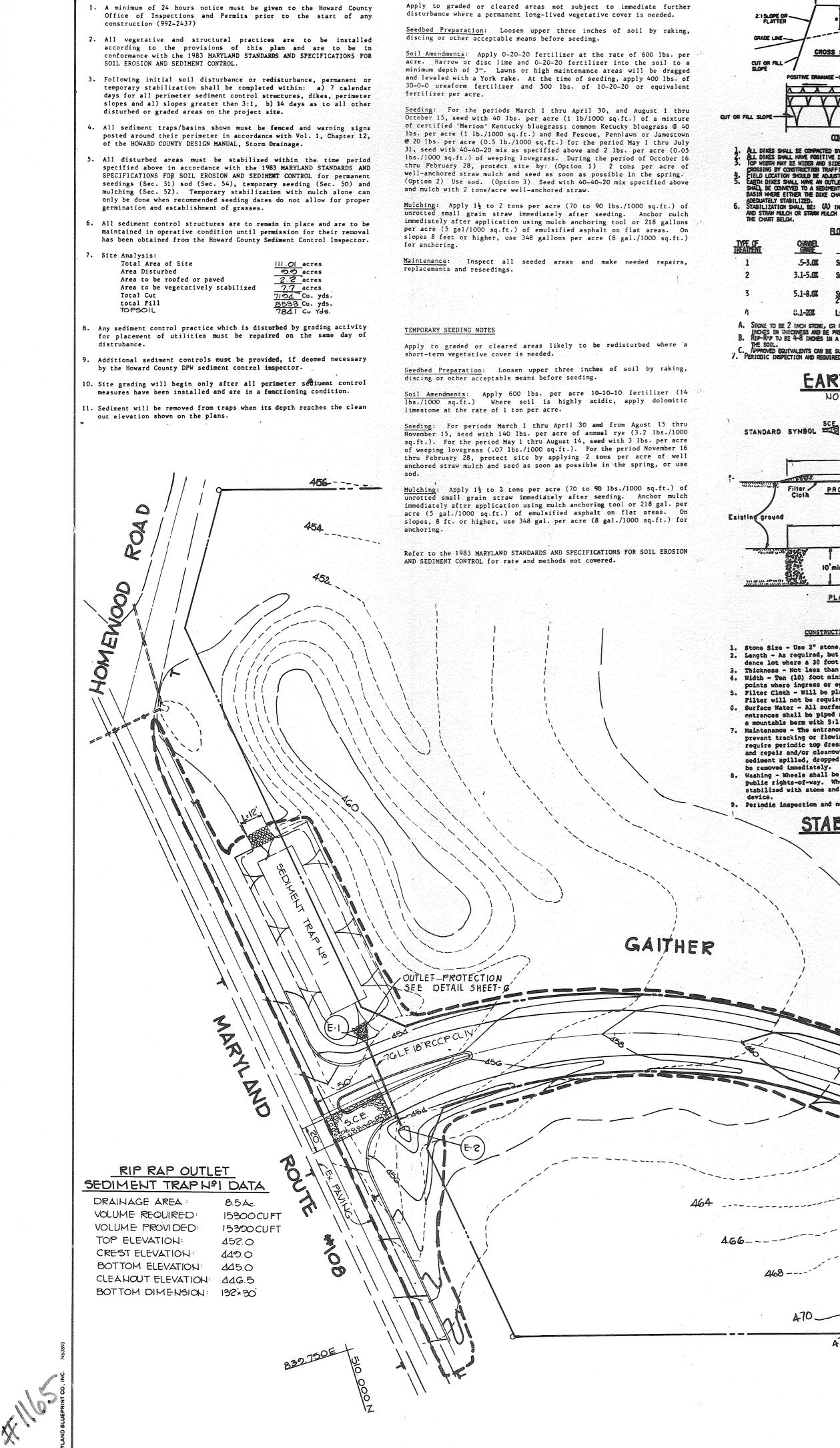








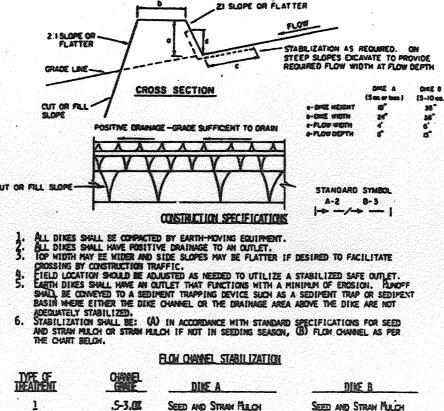




PERMANENT SEEDING NOTES

SEDIMENT CONTROL NOTES

and the second second



3.1-5.0 SEED AND STRAN MULCH SEED USING JUTE, OR EXCELSION; SOD; 2" STO 5.1-8.0 LINED RIP-RAP 4-8" SEED WITH JUTE, OR SOD; 8.1-205 LINED RIP-RAP 4-8" ENGINEERING DESIGN A. STORE TO BE 2 INCH STORE, CR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCRES IN THICKESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT. B. RIP-RUP TO BE 4-8 INCRES IN A LAYER AT LEAST 8 INCRESS AND PRESSED INTO

SEED AND STRAW MUCH

EARTH DIKE

SEED AND STRAN MULCH

EXISTING PAVEMENT PROFILE MOUNTABLE BERN Filter / EXISTIN 10'min AVEMENT PLAN VIEW

CONSTRUCTION SPECIFICATIONS

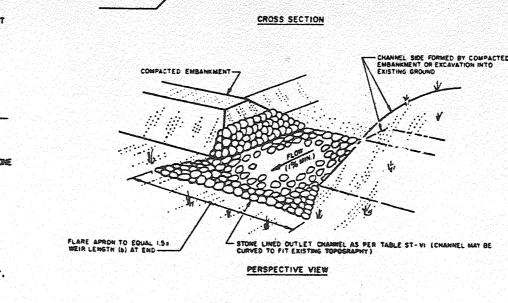
- 1. Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent. Stone Size - Use a stone, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness Not less than six (6) inches. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs. 5. Filter Cloth - Will be placed over the entire area prior to placing of stone.
- Filter will not be required on a single family residence lot. 6. Surface Water All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable bern with Sil slopes will be permitted. Maintenance - The entrance shall be maintained in a condition which will
- prevent tracking of flowing of sediment onto public rights-of-way. This say require periodic top dressing with additional stone as conditions demand repair and/or cleanout of any measures used to trap sediment. ill.
- Washing Wheels shall be cleaned to remove sediment prior to entrance onto Public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping Periodic inspection and needed maintenance shall be provided after each rain,

ENTRANCE

NO SCALE

STABILIZED CONSTRUCTION

FAR;



OP OF COMPACTED ENBANKMENT MIN I ABOVE TOP OF STONE LINING MAX. S' ABOVE EXIST. GROUND AT §

-FILTER CLOTH -

MAX. 2:1 SLOPE (TYP.)

EXISTING GROUND

STORAGE LIMIT

EXCANATE FOR STORAGE

WEIR CREST TO BE 1/2 . . . BELOW EXISTING GROUND

DIST GROUND

LENGTH OF WEIR (b)

MAX DEPTH OF FLOW

PROFILE

LTER CLOTH (EMBEDDED NIN. 4" AT UPSTREAM END)-

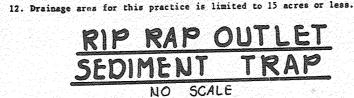
OR EXIST GROUND

FREEBOARD EQUALS 1/2 1

- APRON LENGTH (5'MIN.)

CONSTRUCTION SPECIFICATIONS

- 1. The area under embaukment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared. 2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of
- mbankment shall be five (5) feet, measured at centerline of embankment. 3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- 4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- 5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- 6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- 7. Stone used in the outlet channel shall be four (4) to eight(8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- 8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a menner that it will not erode.
- 9. The structure shall be inspected after each rain and repaired as needed. 10. Construction operations shall be carried out in such a manner that erosion
- and water pollution are minimized. 11. The structure shall be removed and the area stabilized when the drainage
- ares has been properly stabilized.



SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT INSTALL STORM DRAIN FROM E-1 TO E-2 AND THEN INSTALL STABILIZED
- CONSTRUCTION ENTRANCE (1 DAY). INSTALL EARTH DIKE, SILT FENCE AND SEDIMENT TRAPS (3 DAYS).
- 4. GRADE ROADS WITHOUT DISTURBING SEDIMENT CONTROL DEVICES (10 DAYS).
- STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES (1 DAYS).
- INSTALL REMAINING STORM DRAINS (2 DAYS). COMPLETE ROAD CONSTRUCTION.

ROAD

LIMIT OF DISTURBANT

STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES (1 DAY). UPON APPROVAL OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

0 150E

LIMIT OF DISTURBANCE

PROPERTY OF

JAMES T HARRIS 830/0235

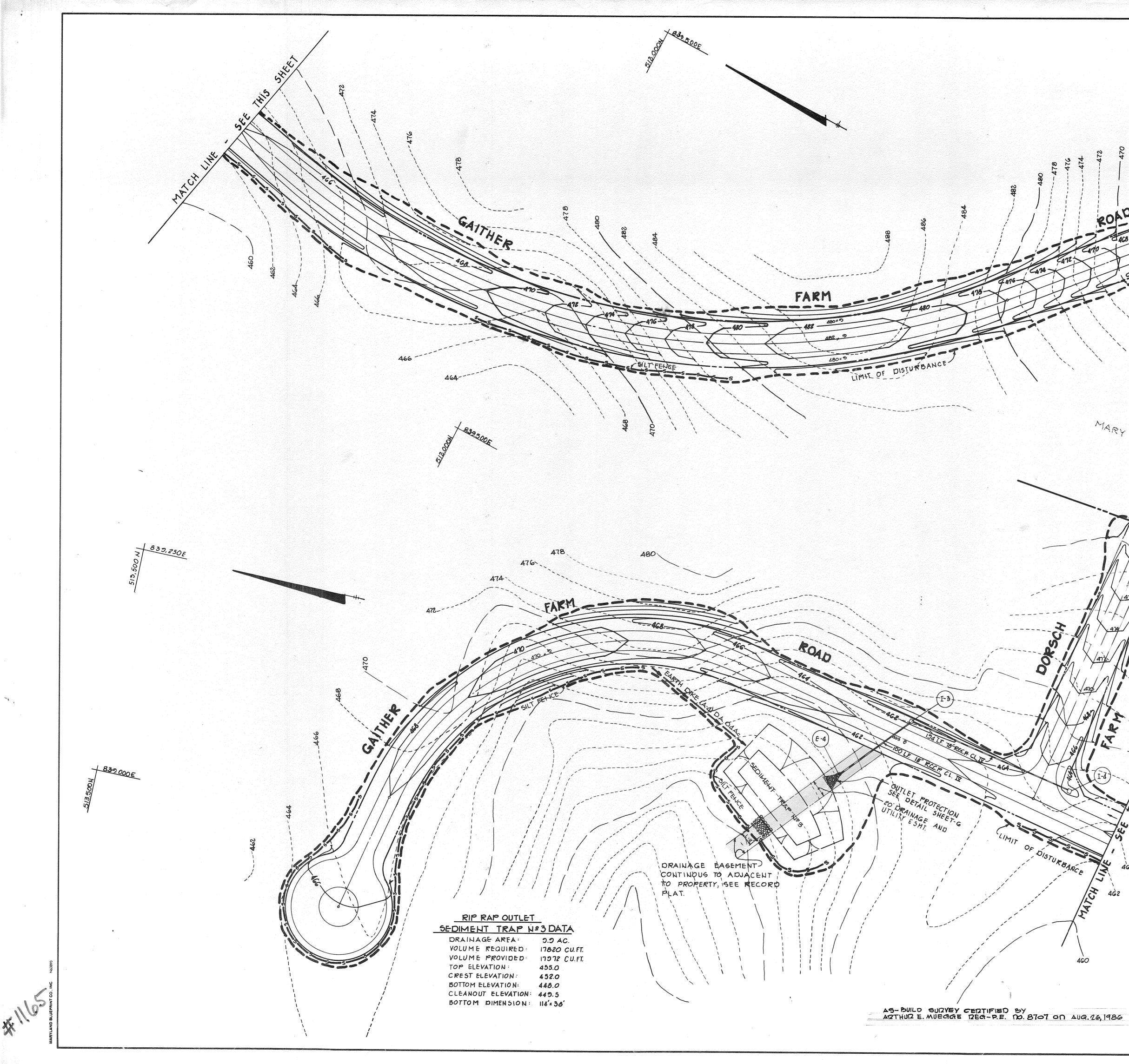
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PROPERTY / HOWARD COUNTY BOARD OF YEOUCATION 58601038

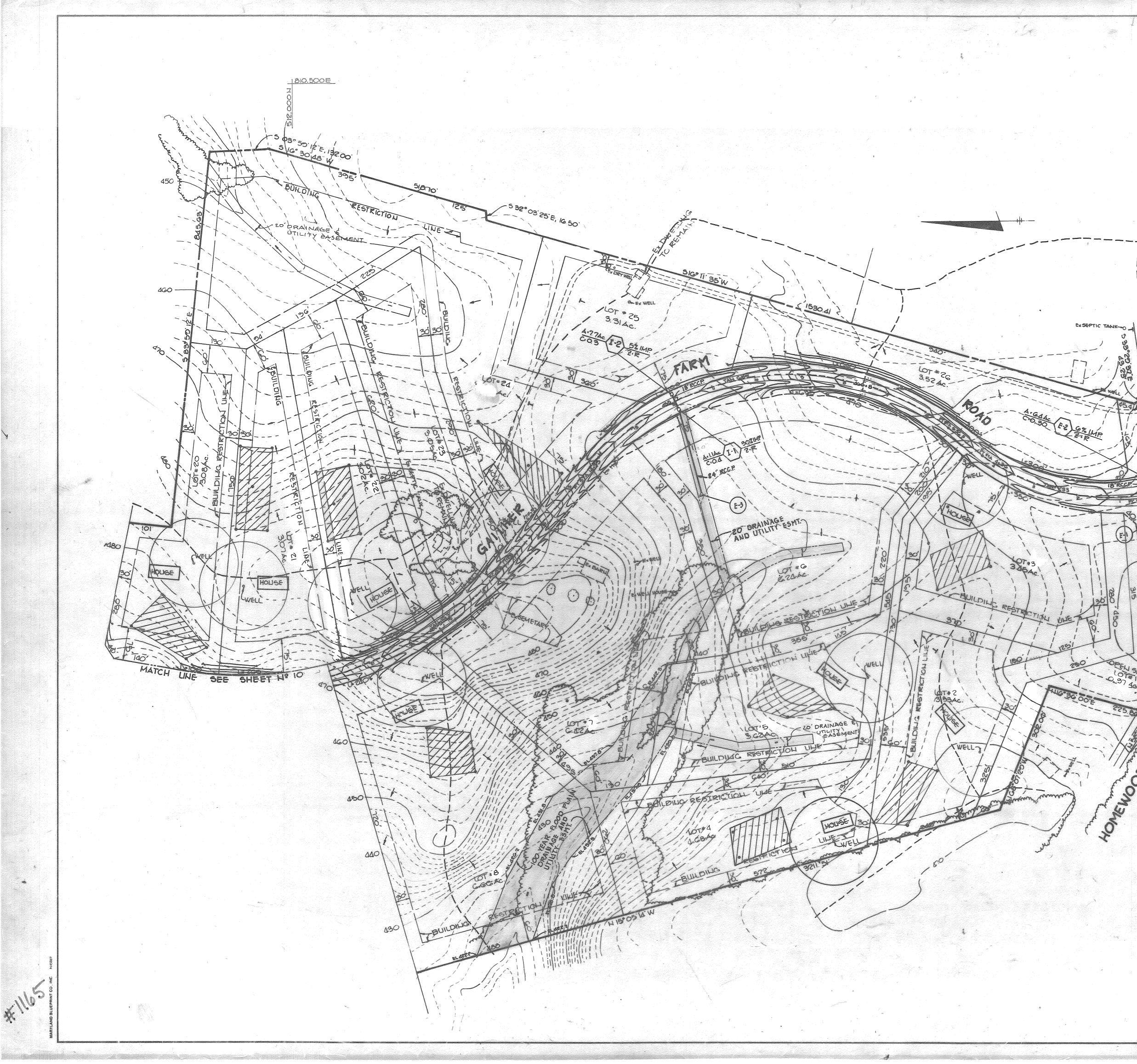
PLAT

PLAN SCALE: 1"= 50'

SILT FENCE -- WOVEN WIRE FENCE (MIN. 14 1/2 BAUDE, MAX. 6" MEEN SPSCING) HO MAX C. TO - 36" MIN. FENCE POSTS, DRIVEN MER. -PERSPECTIVE VIEW -36" WIRL FENCE PO NOVEN WIRE FENCE (14 1/2 GA. MIRL, MAX. 6" MESH SPACING) WITH FILTER CLOTH ON ENDED FILTER CLOTH STANDARD SYMBOL SECTION CONSTRUCTION NOTES FOR FABRICATED SILT FENCE ARTHUR E. MUEGGE # 8707 DATE NOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD FENCE: HOVEN HIRE, 145 GA. 6" MAX. MESH OPENING 2. FILTER CLOTH TO BE FASTENED SECURELY TO HOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. HEN THO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH: FILTER X, MIRAFI, 100X, STABI-LINKA TI4UH OR APPROVED EQUAL BY THE DEVELOPER: PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVEL EQUAL, MAINTEVANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPORTED WER BULGES DEVELOP IN THE SILT FENCE -DRAINAGE EASEMENT CONTINOUS TO ADJACENT 'I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL PROPERTY SEE RECORD BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE SILT FENCE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." RIP RAP OUTLET SEDIMENT TRAP Nº2 DATA BY THE ENGINEER: DRAINAGE AREA 8.0Ac I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL 14400CUFT VOLUME REQUIRED REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY 14556 CUFT VOLUME PROVIDED PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS 453.0 TOP ELEVATION PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CREST ELEVATION 450.0 SOIL CONSERVATION DISTRICT." 116.0 BOTTOM ELEVATION CLEANOUT ELEVATION: 447.5 Withen E. Mue BOTTOM DIMENSION: 80'+50 ENGINEER DATE ARTHUR E. MUEGGE HOWARD S.C.D. REVIEWED FOR AND MEETS TECHNICAL REQUIREMENTS -18-05 men Mol. U.S. SOIL CONSERVATION SERVIC THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. 12-18-85 DATE HOWARD COUNTY OFFICE OF PLANNING AND ZONIN **APPROVED:** DEVELOPMENT AND ZONING ADMINISTRATION APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF, BUREAU OF ENGINEERING 12:23.85 REVISION DATE NO. PATRICK MCUAN & WIFE OWNER : 11838, FARSIDE ROAD ELLICOTTCITY, MARYLAND 21043 DEVELOPER MCUAN DEVELOPMENT GROUP 1000 EQUITABLE BANK CENTER COLUMBIA, MARYLAND 21044 PROJECT GAITHER FARM AREA TAX MAP Nº 20 PARCELI 3 RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE GRADING & SEDIMENT CONTROL THE RIEMER GROUP, INC. The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690 DATE DESIGNED BY : D.A.M. DRAWN BY: J.M. AS-BUILD SURVEY CERTIFIED BY ARTHUR E. MUEGGE REG-P.E. NO. 8707 ON AUG. 26, 1986 PROJECT NO: 18300 DATE: OCT. 7, 1985 SCALE: AS SHOWN 1 alhur_C ARTHUR E. MUEGGE 670 DRAWING NO. 7 OF - 10 · · · F-86-61 AS-BUILT 2/8/88



1 1 BY THE DEVELOPER: I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." BY THE ENGINEER: "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." ARTHUR E. MUEGGE DATE HOWARD REVIEWED FOR S.C.D. AND MEETS TECHNICAL REQUIREMENTS 12-18-85 DATE CONSERVATION SERVIC THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. 476 12-18-85 DATE 5/14/86 A REVISED DORSCH ROAD AS PER COUNTY COMMENTS DATE NO. REVISION PATRICK MCCUAN EWIFE OWNER 11838 FARSIDE ROAD ELLICOTT CITY, MARYLAND 21043 DEVELOPER MCCUAN DEVELOPEMENT GROUP 1000 EQUITABLE BANK CENTER 472 - 839250E COLUMBIA, MARYLAND 21044 PROJECT: 470 GAITHER FARM TAX MAP Nº 20 PARCEL I AREA 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE GRADING AND SEDIMENT CONTROL ARTHUR E. MUEGGE #8701 8-26-86 THE RIEMER GROUP, INC. DATE The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461–2690 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING DATE 12-19-85 DESIGNED BY : D.A.M. CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING DRAWN BY: F.D.M. ADMINISTRATION PROJECT NO: 18300 DATE: OCT. 7,1985 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SCALE: 1' = 50' CHIEF, BJREAU OF ENGINEERING 12-23-25 DATE ARTHUR E. MUEGGE #8707 DRAWING NO. 8 OF 12 Heli Jo F-86.61 2/8/88 AS-BUILT



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| E-1 18" END SECTION 38' LT CL STA 0+64 450.41 Ho Co STD S Z E-2 18" END SECTION 38' RT CL STA 0+64 451.50 Ho Co STD S O E-3 24" END SECTION 218' LT CL STA 12+37 448.99 Ho Co STD S | 0 4.12 |
| Z E-2 18" END SECTION 38' RT CL STA 0+64 451.50 Ho Co STD S O E-3 24" END SECTION 218' LT CL STA 12+37 448.99 Ho Co STD S | |
| 0 E-3 24" END SECTION 218' LT CL STA 12+37 448.99 Ho Co STD S | D 5.52 |
| | D 5.52 |
| Q E-4 18" END SECTION 65' LT CL STA 29+63 458.35 Ho Co STD S | D 5.52 |
| 0 0 1-4 'K' INLET 21' RT CL STA 27+20.00 460.70 464.80 HO. CO. STD 5 | id 4.12 |

ARTHUR E. MUEGGE #8707 DATE

8-26-86

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING DEVELOPMENT AND ZONING ADMINISTRATION APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF, BUREAU OF ENGINEERING 12-23-85 DATE NO REVISION PATRICK MCCUAN & WIFE 11838 FARSIDE ROAD OWNER ELLICOTT CITY, MARYLAND 21043 DEVELOPER: MCCUAN DEVELOPMENT GROUP 1000 EQUITABLE BANK CENTER COLUMBIA, MARYLAND 21044 PROJECT GAITHER FARM ESTATES AREA TAX MAP NO. 29 PARCEL-I 3" ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE DRAINAGE AREA MAP THE RIEMER GROUP, INC. A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM 3105 HEALTH PARK DRIVE, ELLICOTT CITY, ND. 21043 301 461-2690 DATE DESIGNED BY DRAWN BY W.D.S. PROJECT NO: 018300 DATE OCT. 7, 1985

SCALE: 1" = 100'

drawing no. 9 of 12

F-86-61

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ARTHURE. MULGOE "DIUT DALE APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING 12-19-85 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF, BUREAU OF ENGINEERI 5/14/86 A REVISED DORACH FARM ROAD DATE NO REVISION PATRICKMCCUANOWIFE OWNER 11838 FARGIDE ROAD ELLICOTT CITY, MARYLAND 21013 M°CUAN DEVELOPMENT GROUP 1000 EQUITABLE BANK CENTER COLUMBIA, MARYLAND 21044 DEVELOPER PROJECT GAITHER FARM ESTATES AREA TAX MAP Nº 20 AP Nº 29 PARCEL I 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE DRAINAGE AREA MAP THE RIEMER GROUP, INC. A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM 3105 HEALTH PARK DRIVE, ELLICOTT CITY, MD. 21043 301 461-2690 DATE DESIGNED BY J.D.P. DRAWN BY D.A.M. PROJECT NO 18300 DATE OCT. 7, 1983 SCALE 1"= 100' Arthur E. Mulgge 2/8/88 **ASBUILT** DRAWING NO. 10 OF 12-A F-86-61

| LEGENO | | |
|---------|--|--|
| SYMBOL | DESCRIPTION | |
| | EXISTING CONTOUR 2' INTERVAL | |
| | EXISTING CONTOUR 10' INTERVAL | |
| \sim | EXISTING TREES | |
| +457.70 | SPOT ELEVATION | |
| | DENOTES 25% AND GREATER SLOPE | |
| | DENOTES 15%-24.9% SLOPES | |
| टिस्ट | PUBLIC FOREST CONSERVATION EASEMENT (RETENTION) | |
| <u></u> | PUBLIC FOREST CONSERVATION EASEMENT (REFORESTATION) | |
| Δ | FOREST CONSERVATION SIGN LOCATION | |

PLANTING / SOIL SPECIFICATIONS

- Planting Of Nursery Stock Shall Take Place Between March 15th And April 30th Or September 15th And November 15th.
- 2. A Twelve (12) Inch Layer Of Topsoil Shall Be Spread Over All Reforestation Areas Impacted By Site Grading To Assure A Suitable Planting Area, If Applicable. Disturbed Areas Shall be Seeded And Stabilized In Accordance With The Sediment & Erosion Control Plan For This Project. Planting Areas Not Impacted By Site Grading Shall Have No Additional Topsoil Installed.
- 3. All Bare Rood Planting Stock Shall Have Their Root System Dipped Into An Anti-Desiccant Gel Prior To Planting.
- 4. Plants Shall be installed So That The Top Of The Root Mass is Level With The Top Of Existing Grade. BackFill In The Planting Pits Shall Consist of 3 Parts Existing Soil to 1 Part Pine Fines Or Equivalent.
- 5. Fertilizer Shall Consist Of Agriform 22-8-2. Or Equivalent, Applied As Per Manufacturer's Specifications
- 6. A Two (2) Inch Layer Of Hardwood Mulch Shall Be Placed Over The Root Area Of All Plantings. See Planting Detail.
- 7. Plant Material Shall Be Transported To The Site In A Tarped Or Covered Truck. Plants Shall Be Kept Moist Prior To Planting.
- 8. All Non-Organic Debris Associated With The Planting Operation Shall Be Removed From The Site By The Contractor.

SEQUENCE OF PLANT INSTALLATION

- Plants Shall Be Installed And Maintained As Per Notes And Specifications For This Project.
- 2. Upon Completion Of The Plantings, Signage Shall Be Installed As Per The Signage Detail.
- 3. Plantings Shall Be Guaranteed and Maintained In Accordance With The "Guarantee Requirements" And "Maintenance Of Plantings" Associated With This Project.

MULTIFLORA ROSE CONTROL NOTE:

PROR TO PLANTING ALL HULTPLORA ROSE WITHIN PLANTING AREAS SHALL SE REMOVED. Removal Of The Multiflora Rose May Be Performed With Mowing And Herbicide Treatments. Physical Removal Of All Top Growth Followed By A Periodic Herbicide Treatment Of Stump Sprouts Is Recommended. Native Tree And Shrub Species Occurring Within The Rose Thickets Should Be Retained Wherever Possible. Herbicide Treatments Shall Occur On Two (2) Month Intervals During The First Growing Seaseon And Once In The Spring And Once In the Fall For Subsequent Years. Herbicide Used Shall Be Made Specifically To Address Woody Plant Material And Shall Be Applied As Per Manufacturers Specifications. Care Should Be Taken Not To Spray Planted Trees Or Naturally Occurring Native Tree And Shrub Seedlings. It is Recommended That Initiation Of Rose Removal Begin At Least Six Months Prior To Planting So That New Growth OF Roses is Able To Be More Successfully Managed.

FOREST PROTECTION GENERAL NOTES

- ALL FOREST RETENTION AREAS SHALL BE TEMPORARILY PROTECTED BY WELL ANCHORED BLAZE ORANGE PLASTIC MESH FENCING, AS NECESSARY, AND SIGNAGE AS INDICATED ON THE PLANS. THE DEVICES SHALL BE INSTALLED ALONG THE FOREST RETENTION BOUNDARY PRIOR TO ANY LAND CLEARING, GRUBBING, OR GRADING ACTIVITIES.
- THE FOREST PROTECTION DEVICES SHALL BE INSTALLED SUCH THAT THE CRITICAL ROOT ZONES OF ALL TREES WITHIN THE RETENTION AREA NOT OTHERWISE PROTECTED WILL BE WITHIN FOREST PROTECTION DEVICES LINEESS ROOT PRUNING IS PROPOSED
- ALL PROTECTION DEVICES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION, INCLUDING SILT FENCE BEING USED AS PROTECTIVE FENCING. ALL DEVICES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS CEASED IN THE IMMEDIATE VICINITY.
- ATTACHMENT OF SIGNS, OR ANY OTHER OBJECTS TO TREES IS PROHIBITED. NO EQUIPMENT. MACHINERY, VEHICLES, MATERIALS OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN HESE PROTECTED AREAS.
- INSTALLATION AND MAINTENANCE OF PROTECTIVE FENCING AND SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL TAKE THE LITMOST CAPE TO PROTECT TREE ROOT SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES TREE ROOT SYSTEMS SHALL BE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DE-WATERING OPERATIONS, OFF-SITE RUN OFF, SPILLAGE AND DRAINING OF MATERIALS THAT MAY BE HARMFUL TO TREES.
- 6. THE GENERAL CONTRACTOR SHALL PREVENT PARKING OF CONSTRUCTION VEHICLES AND EQUIPMENT, AND THE STORING OF BUILDING SUPPLIES OR STOCKPILING OF EARTH WITHIN FOREST CONSERVATION EASEMENTS
- REMOVAL OF TOPSOIL OR ROOT MAT WITHIN THE TREE PRESERVATION AREA SHALL BE PROHIBITED. 8. THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY TREES DAMAGED OR DESTROYED
- WITHIN THE FOREST CONSERVATION EASEMENTS. ROOT PRUNING SHALL BE USED AT THE LIMIT OF DISTURBANCE OR LIMIT OF GRADING WITHIN AND ADJACENT TO ALL PRESERVATION AREAS, AS NECESSARY.

REFORESTATION PLANTING NOTES

And As Described Herein.

- 1. Plants, Related Material, And Operations Shall Meet The Detailed Description As Given On The Plans
- Plant Material, Unless Otherwise Specified, Shall Be Nursery Grown, Uniformly Branched And Have A Vigorous Root System. Plant Material Shall Be Healthy, Vigorous Plants Free From Defects, Decay, Disfiguring Roots, Sunscald Injuries, Abrasions Of The Bark, Plant Disease, Insect Pest Eggs, Boxers, Infestations Or Objectionable Disfigurements. Plant Material That Is Weak Or Which Has Been Cut Back From Larger Grades To Meet Specified Requirements Will Be Rejected. Trees With Forked Leaders Will Not Be Accepted. Plants Shall Be Freshly Dug; No Heeled-in Plants Or Plants From Cold Storage Will Be Accepted.
- . Unless Otherwise Specified, Plant Material Shall Conform To "American Standard For Nursery Stock" ANSI Z60.1-1990, Published By The American Association Of Nurserymen, Including All Addenda. 4. Contractor Will Be Required to Guarantee Plant Material For A Period of Two (2) Years After The
- Date Of Acceptance And Maintain A 75% Survivability At The End of The Two (2) Years.
- 5. To Lessen The Chance Of Loss, The Plantings Should Be Checked From Time To Time To Insure That They Are Receiving Sufficient Water. See "Maintenance Of Plantings" For Guidelines.
- The Location And Orientation Of All Plant Material Shall be Randomly Planted In Designated Reforestation Areas by the Contractor. Contractor Shall be Responsible For Moving Any Plant Material Installed Without Approval.
- Mowing And Applying Herbicides To The Reforestation Area Is Prohibited At Any An All Stages Of The Planting Process In Order To Encourage The Existing Saplings To Grow.
- 8. Contractor Is Responsible For Installing And Pruning Plant Material In The Proper Planting Season
- For Each Plant Type, See Tree Planting & Maintenance Calendar. 9. Upon Completion Of Installation, Signage Shall Be Installed As Shown.

MAINTENANCE OF PLANTINGS

- 1. Maintenance Of Plantings Shall Last For A Period Of 26 Months.
- 2. All Plant Material Shall Be Generally Watered Twice A Month During The 1st Growing Season. Watering May Be More Or Less Frequent Depending On Weather Conditions.
- 3. During The 2nd Growing Season, Plant Material Shall Be Watered Once A Month From May To September, As Needed.
- 4. Invasive Exotics And Noxious Weeds Shall Be Removed From The Reforestation Area(s). Old Field Successional Species Shall Be Retained.
- 5. Plants Shall Be Examined A Minimum Of Two (2) Times During The Growing Season For Serious Plant Pests And Diseases With The Appropriate Agent.
- FISHER, COLLINS & CARTER, INC. WIL ENGINEERING CONSULTANTS & LAND SURVEYORS

6. Dead Branched Shall Be Pruned From The Plantings.

NIAL SOUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

OWNER/DEVELOPER DOUGLAS R BRUNNER 1200 STUEART ST. UNIT 1511 BALTIMORE MD 21230 PHONE: 410-963-1678

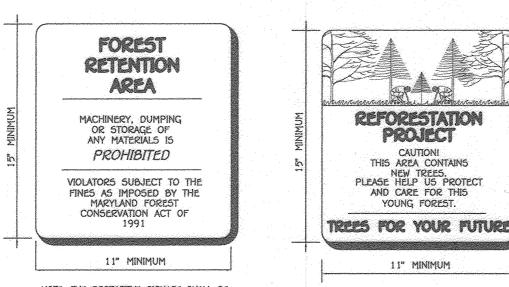
GUARANTEE REQUIREMENTS

A 75% Survival Rate For The Reforestation Plantings Is Required At The End Of The 24 Month Maintenance Period. All Plant Material Below The 75% Threshold Is Required To Be Replaced At The Beginning Of The Next Growing Season.

PRE-CONSTRUCTION MEETING

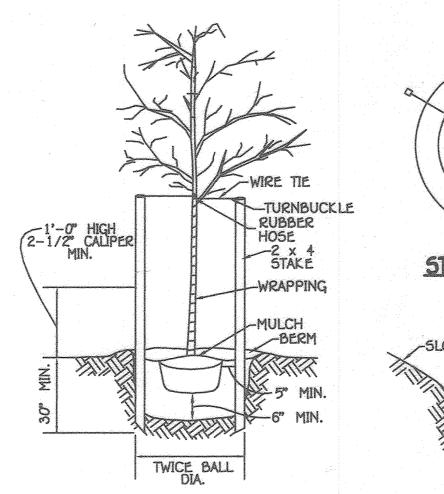
ENGINEER

- AFTER THE BOUNDARIES OF THE FOREST RETENTION AREAS HAVE BEEN FIELD LOCATED AND MARKED, AND AFTER THE FOREST PROTECTION DEVICES HAVE BEEN INSTALLED, BUT BEFORE ANY OTHER DISTURBANCE HAS TAKEN PLACE ON SITE, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE ON SITE. THE DEVELOPER, CONTRACTOR OR PROJECT MANAGER, AND HOWARD COUNTY INSPECTORS SHALL ATTEND. THE PURPOSE OF THIS MEETING WILL BE: A. TO IDENTIFY THE LOCATIONS OF THE FOREST RETENTION AREAS. SPECIMEN TREES WITHIN 50 FEET OF THE LIMIT OF DISTURBANCE, LIMITS OF CONSTRUCTION, EMPLOYEE PARKING AREAS AND EQUIPMENT STAGING AREAS 8. INSPECT ALL FLAGGED BOUNDARIES AND PROTECTION DEVICES;
- . MAKE ALL NECESSARY ADJUSTMENTS. D. ASSIGN RESPONSIBILITIES AS APPROPRIATE AND DISCUSS PENALTIES CONSTRUCTION MONITORING
- 1. THE SITE SHALL BE INSPECTED PERIODICALLY DURING THE CONSTRUCTION PHASE OF THE PROJECT. A QUALIFIED PROFESSIONAL SHALL BE RESPONSIBLE FOR IDENTIFYING DAMAGE TO PROTECTED FOREST AREAS OR INDIVIDUAL TREES WHICH MAY HAVE BEEN CAUSED BY CONSTRUCTION ACTIVITIES, SUCH AS SOIL COMPACTION, ROOT INJURY, TRUNK WOUNDS LIMB INJURY, OR STRESS CAUSED BY FLOODING OR DROUGHT CONDITIONS. 2. ANY SUCH DAMAGE THAT MAY OCCUR SHALL BE REMEDIED IMMEDIATELY USING APPROPRIATE
- MEASURES. SEVERE PROBLEMS MAY REQUIRE CONSULTATION WITH A PROFESSIONAL 10000151 3. THE CONSTRUCTION PROCEDURE SHALL NOT DAMAGE AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS DESIGNATED ON THE PLANS. ANY DAMAGE SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE DESIGN TEAM OR



NOTE: THE PROTECTIVE SIGNAGE SHALL BE IN PLACE FOR PERPETUITY.





DEVELOPER'S CERTIFICATE

BLAZE ORANGE PLASTIC MESH

ANCHOR POST SHOULD BE MINIMUM 2" STEEL "U" CHANNEL OR 2" x 2" TIMBER 6' IN LENGTH HIGHLY VISIABLE FLAGGING MAXIMUM & FEET

ANCHOR POST MUST BE INSTALLED to a depth of no less than 1/3 OF THE TOTAL HEIGHT OF POST

- NOTES:
- FOREST PROTECTION DEVICE ONLY RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
- ROOT DAMAGE SHOULD BE AVOIDED. PROTECTIVE SIGNAGE MAY ALSO BE USED. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.





NON-BUILDABL NON-BUILDABLE PRESERVATIO PRESERVATION PARCEL NON-BUILDABLE PARCEL U (RIVERWOOD PRESERVATION (RIVERWOOD SUBDIVISION EX. FOREST PARCEL C PLAT_NOS. 20671 SUBOMSION CONSERVATION 1/RIVERWOOD PLAT NOS. 20671 GUBDIMISION 206761 EASEMENT 20676) PLAT #19035 PLAT, NO5, 20671/ 206761 RIVERWOOD SUBDIV. PAR. N89"11'03"E 44000 420 NON-BUILDABLE PRESERVATION PARCEL U Forest Conservation Environmen 1RIVERWOOD OLD FIELD 'X£∂sement SST VLU SUBDIVISION Total Area = 1.74 Ac. PLAT NOS. 2067T LOT J.03 Ac+' Retention 206761 0.71 Ac+ Planting 4.2463 AC PROP. STOCKPILE AREA -EX. FOREST CONSERVATION FASEMENT PLAT #18035 TULIP PO *ST-2 NON-PHE DARLE PRESERVATION PARCEL (RIVERWOOD Forest Conservatio SUBDIVISION Easement FLAT NOS. 20671 Totāl Areā = 1.74 Ac 20676 1.03 Ac+ Retention 1 Ac± Plantin 2456.5 LOT 3 RIVERWOOD SUBDIV. P20P. W. BEL 451.9 PROP. FOREST CONSERVATION SIGN STAKE -WIRE LOT 2 Vin RIVERWOOD SUBDIV. FARM SUBDIV **L**TURNBUCKLE <u>STAKINĞ DETAIL</u> NOT TO SCALE -420-PLAN SCALE: 1" = 50' Project: Gaither Hunt Lot 15 Date: January 3, 2020 REFER TO SHEET 12 FOR HOUSE STING AND GRADING. USE 2" x 4" NET TRACT AREA CROSS BACKING Total tract area . Area within 100 Year Floodplain Net Tract Area . Afforestation Threshold . Conservation Threshold EXISTING FOREST COVER: **BREAK EVEN POINT** C. Clearing permitted without mitigation APPROVED: DEPARTMENT OF PLANNING AND ZONING USE 3' WIRE "U" TO SECURE PROPOSED FOREST CLEARING FENCE BOTTOM CHIEF, DIVISION OF LAND DEVELOPMEN 11.4.20 PLANTING REQUIREMENTS ENGINEERING DIVISION REVISIONS Total reforestation required DESCRIPTION DATE Total afforestation required 2 REFER TO SHT. 12 FOR NOUSE SITING AND GRADING 1/20/23

