

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGED INCURRED SHALL BE REPAIRED IMMEDIATELY
- TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.

HAVE A COPY OF VOLUME IV ON THE JOB SITE.

- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1989 AMENDMENTS). THE CONTRACTOR SHALL
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 🔲 AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

C. & P. TELEPHONE COMPANY - 1-800-257-7777 STATE HIGHWAY ADMINISTRATION - 531-5533 BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620 BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL - 859-9004 BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9001 MISS UTILITY - 1-800-559-0100 COLONIAL PIPELINE CO. - 795-1390

- BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 313 4900 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE
- CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR 10. CONTRACTOR SHALL REMOVE TREE, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., OR P.V.C. UNLESS OTHERWISE NOTED.
- 12. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 13. T.B. DENOTES TEST BORING.
- 14. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 15. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52. 16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'6" ABOVE FINISHED GRADE UNLESS OTHERWISE
- NOTED ON THE DRAWINGS .
- 17. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN
- 18. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CAN NOT BE SERVED.
- 19. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN SPECIFICATIONS.
- 20. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLES, FRAMES AND COVERS STANDARD DETAIL G5.15.
- 21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL. 22. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER
- MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT. 23. ALL WATER MAINS TO BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 24. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2 COVER UNLESS OTHERWISE NOTED. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 25. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DEFAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 26. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS, SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 24. CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 25. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.

CONTRACT NO. 24-3155-D

SCALE : I" = 6001

GREENBRIAR MANOR

WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT-CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THESE AND SEWER CONTRACT DRAWINGS. REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT

PLAN REFERENCE NUMBERS: P- 91-16 F - 92-42

NO. OF WATER HOUSE CONNECTIONS 6

TREATMENT PLANT: PATAPSCO TREATMENT PLANT; CITY OF BALTIMORE, VIA ROUTE 108 PUMPING STATION

NO. OF SEWER HOUSE CONNECTIONS DRAINAGE AREA LITTLE PATUXENT

CONTRACT NO. 24-3155-D GREENBRIAR MANOR WATER AND SEWER EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Misser & Rady

QUANTITIES

821 L.F.

25Q L.F.

265 L.F.

50 L.F.

160 L.F.

1 EACH

1 EACH

1 EACH

ESTIMATED | AS - BUILT | SUPPLIER

8 EACH

321 L.F. MECSALES

265 L.F. GRIFFIN PIPE

184 L.F. CAMBRIBGE LEE

12' L.F. GRIFFIN PIPE

I EACH MECSALES

660 L.F. GRIFFIN FIFE

7' L.F. GRIFFIN PIPE,

MIC SALKS

819 'L.F.

63' 4.F.

/ EACH

/ EACH

ITEM

MANHOLES

8" SEWER

4" SEWER

⊚" WATER

3/4" WATER

4" WATER

4" VALVE

4"13" REDUCER

3" BLOWDFF

3" WATER

5" SEWER (D.I.P.) | 660 L.F.

"WATER

11-26-91 CHIEF. BUREAU OF ENGINEERING DATE CHIEF, LAND DEVELOPMENT DIVISION

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
SUITE 100, 9171 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043 (301) 461-2855



	DATE:	BY	NO.	REVISION	DATE	
	CHK: PWK DATE:		ll			
	DRWN: SFH					
	DES: MJM					

TITLE SHEET

600' SCALE MAP NO. ______ BLOCK NO.

GREENBRIAR MANOR

CONTRACT NO. 24-3155-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE

AS SHOWN

AS-BUILT 3-24-93

DEVELOPER'S CERTIFICATE I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE

CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE

OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO

ENGINEER'S CERTIFICATE

I HEREDY 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

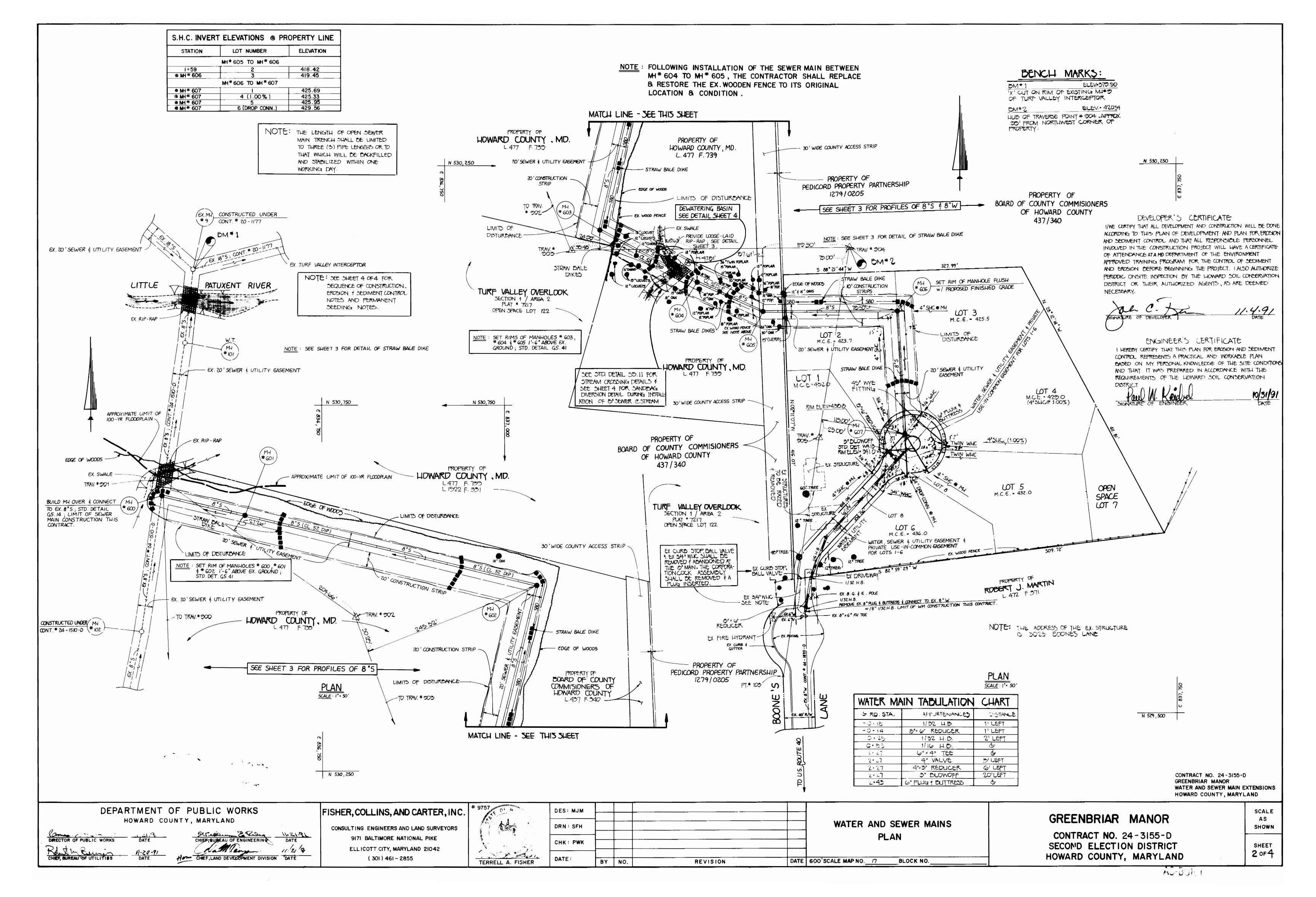
DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

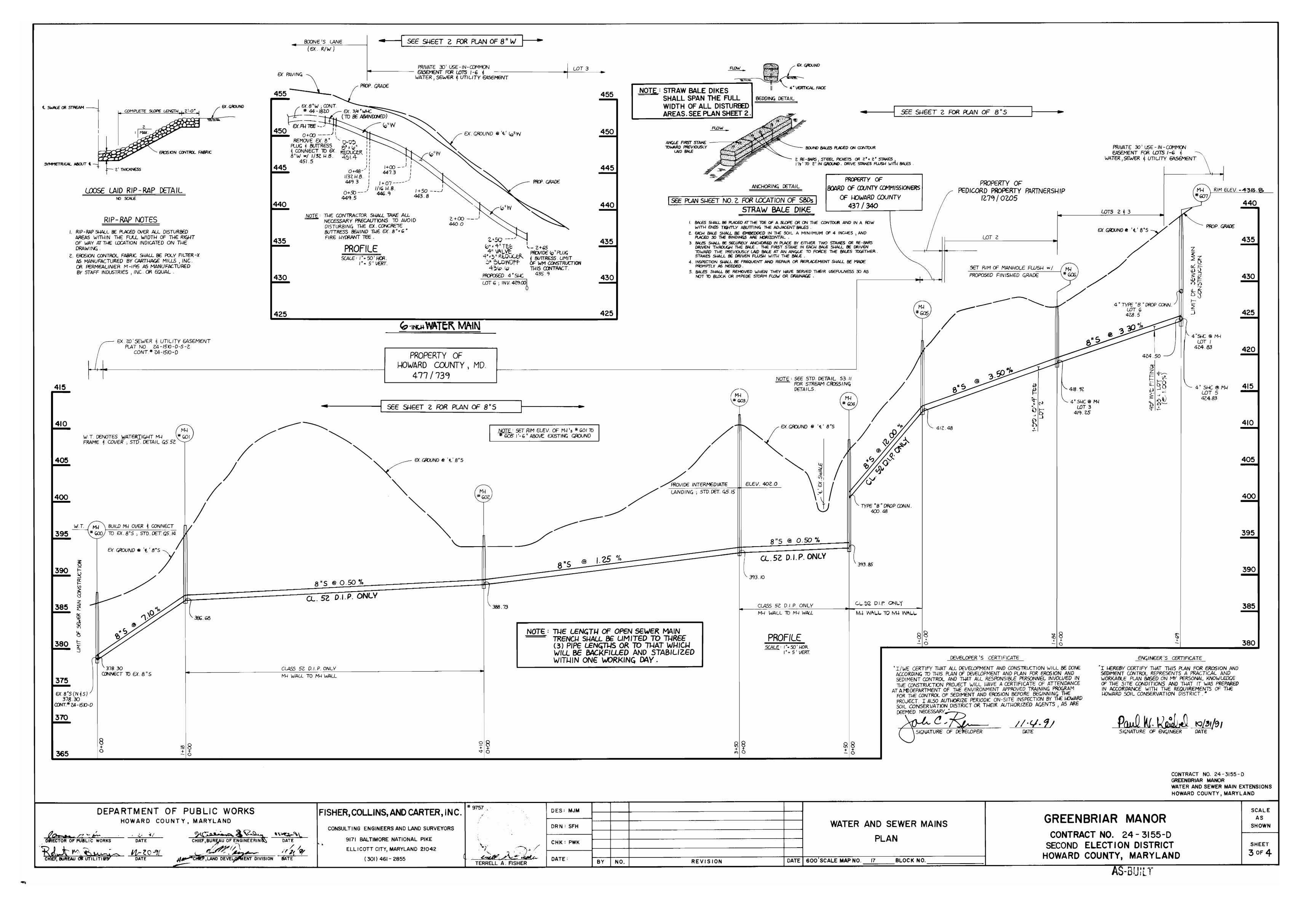
ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT

CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND

DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL

AUTHORIZE PERIODIC ONSITE INSPECTION BY THE LIOWARD SOIL CONSERVATION





EROSION AND SEDIMENT CONTROL NOTES:

T. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY 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.

UPGRADE SIDE OF THE SEWER MAIN TRENCH. IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER MAIN TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND

ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE

SEEDING NOTES SHOWN ON THIS SHEET. 5. THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT

ALL DEVICES ARE IN OPERATIVE CONDITION. 6. ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

NOTE: THE LENGTH OF OPEN SEWER MAIN TRENCH SHALL BE LIMITED TO THREE (3) PIPE LENGTHS OR TO THAT WHICH WILL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY.

SEDIMENT CONTROL NOTES

1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).

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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES. DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1. b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING

SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1. CHAPTER 12. OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE. 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF

6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT

CONTROL INSPECTOR. 7) SITE ANALYSIS: TOTAL AREA OF SITE (GREENBRIAR MANOR) 3.803 ACRES AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED ACRES .713 ± CU.YDS.* TOTAL CUT 1.641 CU.YDS.*

* TOTAL CUT IS TRENCH

IS REFILL / BACKFILL OF

SEWER MAIN TRENCH.

EXCAVATION FOR SEWER MAIN

INSTALLATION & TOTAL FILL

OFFSITE WASTE/BORROW AREA LOCATION N/A CU.YDS.

B) 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 CONTROLS MUST BE PROVIDED, IF DEEMED

TOTAL FILL

NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER 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.

PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTRUBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

OBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE. 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.) HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.) 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28. PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WILL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OR UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHTER. USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED RÉPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER

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 WEEPING LOVEGRASS (.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28 PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.
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 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

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

SEQUENCE OF CONSTRUCTION

OBTAIN THE REQUIRED GRADING PERMIT.

DEVICES: AS INDICATED ON SHEET 2 OF 4.

INSTALL THE REQUIRED SEDIMENT AND EROSION CONTROL

CLEAR AND GRUB AS NECESSARY; ONLY AS REQUIRED FOR EXCAVATION AND INSTALLATION OF THE 8" SEWER MAIN AND ONLY WITHIN THE DESIGNATED SEWER AND UTILITY EASEMENTS. NOTE: THE LENGTH OF OPEN SEWER MAIN TRENCH SHALL BE LIMITED TO THREE (3) PIPE LENGTHS OR TO THAT WHICH WILL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING

5. BEGINNING AT MANHOLE NO. 600; EXCAVATE TRENCH AND

INSTALL 8" SEWER MAIN & APPURTENANCES AND BACKFILL SEWER MAIN TRENCH; UP TO A POINT 100° ± BEYOND MANHOLE NO. 603 AT BANK OF EXISTING STREAM. PLACE EXCAVATED MATERIAL ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH. 6. EXCAVATE AND CONSTRUCT DEWATERING BASIN - SEE DETAILS

INSTALL SANDBAGS AS NECESSARY TO DIVERT ONBHALF OF

8. EICAVATE SEWER MAIN TRENCH WITHIN STREAMBED AND INSTALL

REMOVE SANDBAGS AND REINSTALL AS NECESSARY TO DIVERT

TO COMPLETE INSTALLATION OF 8" SEWER MAIN ACROSS

11. PLACE LOOSE-LAID RIP-RAP ACROSS STREAM AND ALONG STREAM BANKS. SER DETAIL SHEET 3 OF 4. RIP-RAP SHALL BE

PLACED THE FULL WIDTH OF THE PREVIOUSLY EXCAVATED

12. REMOVE THE DEWATERING BASIN AND RESTORE AREA DISTURBED

13. CONTINUING FROM MANHOLE NO. 604, UPGRADE OF THE STREAM

14. STABILIZE, SEED AND MULCH ALL DISTURBED AREAS IN

EROSION AND SEDIMENT CONTROL DEVICES.

15. FOLLOWING SUCCESSFUL STABILIZATION OF ALL DISTURBED

CROSSING, EXCAVATE TRENCH AND INSTALL 8" SEWER MAIN

AND APPURTENANCES AND BACKFILL SEWER MAIN TRENCH; UP

ACCORDANCE WITH THE PERMANENT SEEDING NOTES SHOWN ON

TO MANHOLE NO. 607 AT LIMIT OF SEWER MAIN CONSTRUCTION

ARBAS, AND AFTER PERMISSION HAS BEEN OBTAINED FROM THE

HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL

SECOND HALF OF STREAM PLOW. SEE DETAILS THIS SHEET. 10. EXCAVATE SEWER MAIN TRENCH AND INSTALL 8" SEWER MAIN

STREAM. ALL STREAM WATER PUMPED OUT DURING CONSTRUCTION ACTIVITIES SHALL BE PUMPED TO THE DEWATERING BASIN.

8" SEWER MAIN TO CENTER-LINE OF STREAM. ALL STREAM WATER PUMPED OUT DURING CONSTRUCTION ACTIVITIES SHALL

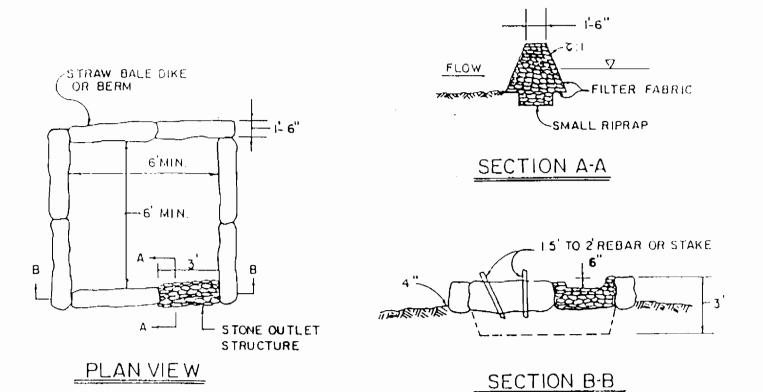
THE STREAM FLOW - SEE DETAILS THIS SHEET.

BE PUMPED TO THE DEWATERING BASIN.

TRENCH ACROSS THE STREAM.

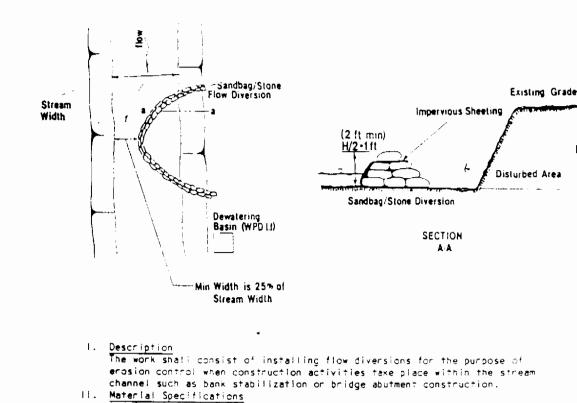
BY BASIN CONSTRUCTION.

THIS SHEET.



NOTE: ALL DEWATERING OF THE CONSTRUCTION AREA DURING THE SEWER MAIN INSTALLATION FRIP-RAP INSTALLATION SHALL BE PUMPED TO A DEWATERING BASIN (WPD 1.1 - AS SHOWN ABOVE) PRIOR TO RE-ENTERING THE STREAM.

DEWATERING BASIN DETAIL; WPD 1.1



Material Specifications
1. Sandbags: Sandbags shall consist of materials which are resistant to ultra-violet radiation, tearing and puncture and woven tight!v enough to prevent leakage of fill material (i.e., sand, fine grave), 2. Stone: Stone shall be washed and have a minimum diameter of & Sheeting: Sheeting shall consist of polyethylene or other material which is impervious and resistant to puncture and tearing. first order of work 2. The diversion structure shall be installed from upstream downstream. The height of the diversion structure shall be one half the distance from stream bed to stream bank plus one foot, as indicated on the 4. All excavated materials shall be disposed of the a SCC approved disposal area outside the 100-year flocaplain unless otherwise

approved on the plans by the WRA. All dewatering of the construction area shall be numped to a dewatering basin prior to re-entering the stream.

. Sheeting shall be overlapped such that the upstream portion covers the downstream portion with at least an 18-inch overlap. Sediment control devices are to remain in place until all disturbed areas are statifized in accordance with an approved sediment and erosion control plan and the inspecting authority approves their

SANDBAG/STONE DIVERSION @ STREAM

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MD DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL

NECESSARY".

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

16-57-01

FISHER, COLLINS, AND CARTER, INC.

CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043



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	CHK : PWK					DETAILS
-	CATE	<u>.</u>				
		BY	NO	REVISION	DATE	600 SCALE MAP NO. 17

SEDIMENT & EROSION CONTROL DETAILS & NOTES

GREENBRIAR MANOR

CONTRACT NO. 24 - 3155 - D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ΑS SHOWN SHEET

CONTRACT NO. 24 3155 D

WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

GREENBRIAR MANOR

LOTS 1-8

AS-BUILT

CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED