

Fisher, Collins & Carter, Inc.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK,
10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461-2855

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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

James P. Dule 2/10/97
SIGNATURE OF ENGINEER DATE

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 DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Donald Beumer 2/10/97
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

John P. Robertson 2/13/97
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED DEPARTMENT OF PLANNING & ZONING

Joseph Putter, Jr. 2/20/97
DIRECTOR, DEPARTMENT OF PLANNING & ZONING DATE

Richard Blount 2/19/97
SA DATE

APPROVED DEPARTMENT OF PUBLIC WORKS

2/10/97
DATE

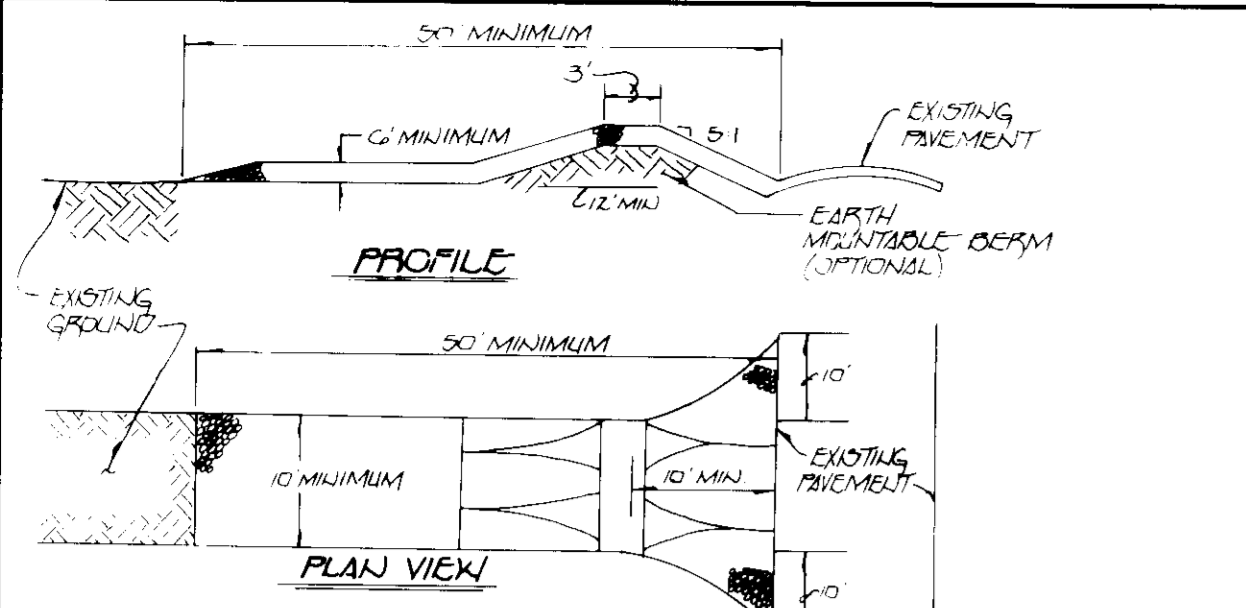
INDEX OF SHEETS

SITE DEVELOPMENT PLAN SHEET 1 OF 3: PLAN, P.D. LOT LAY-OUT
SITE DEVELOPMENT PLAN SHEET 2 OF 3: LANDSCAPE PLAN & NOTES
SITE DEVELOPMENT PLAN SHEET 3 OF 3: PROFILES & DETAILS

WASTEWATER PUMPING STATION
CONTRACT No. 24-3457-D
OPEN SPACE LOT No. 20
TAX MAP 16 PARCEL 21
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SITE DEVELOPMENT PLAN SHEET 1 OF 3
SCALE: AS SHOWN

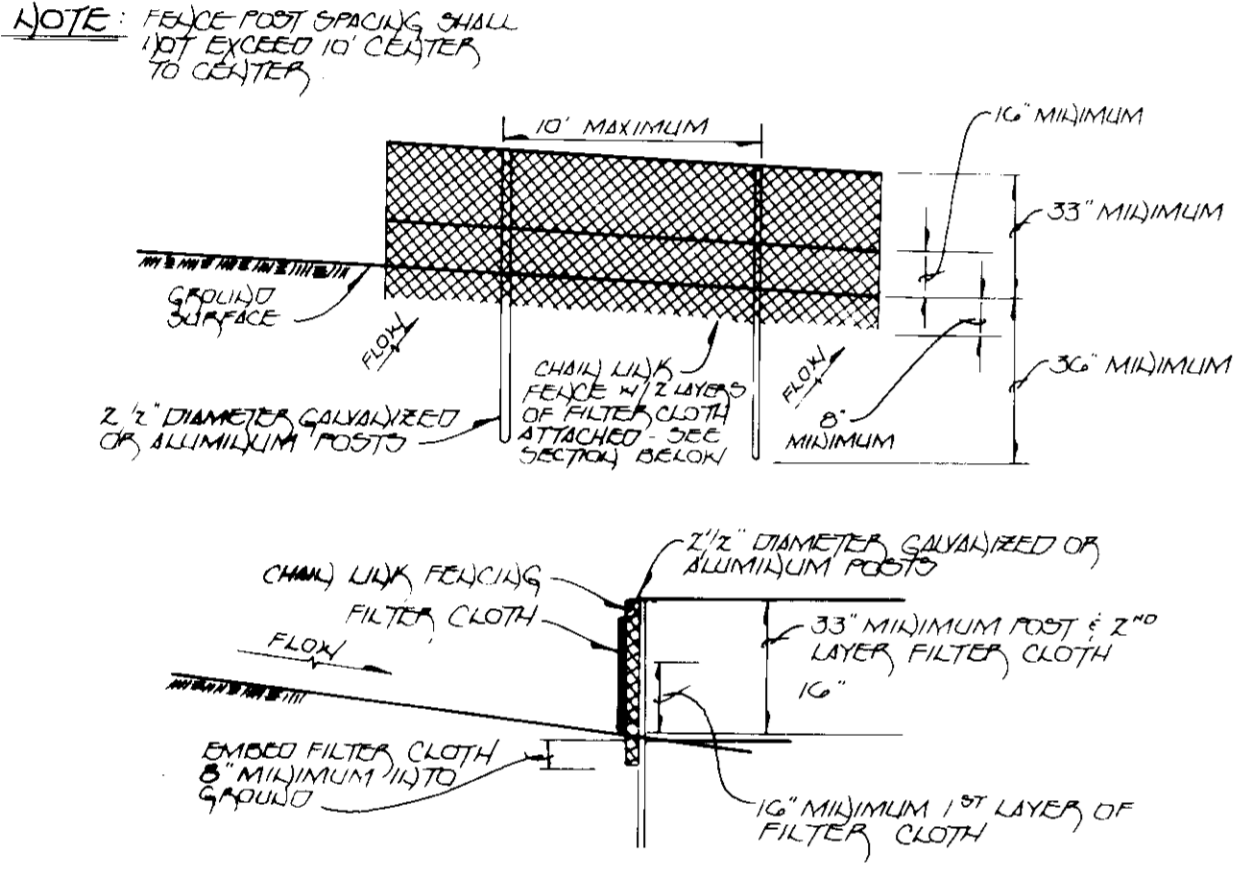
PROPERTY/SUBDIVISION: G.T.W.'S WARDEN WOODS
SECTION/AREA: 4/2
PARCEL/LOT NO.: 21 / 20
PLAT NO.: 12276
BLOCK NO.: 6
ZONE: R-20
TAX/ZONE: 16
ELEC. DIST.: 2 ND
CENSUS TRACT: 6003
WATER CODE: 405
SEWER CODE: 5993000

SHEET 1



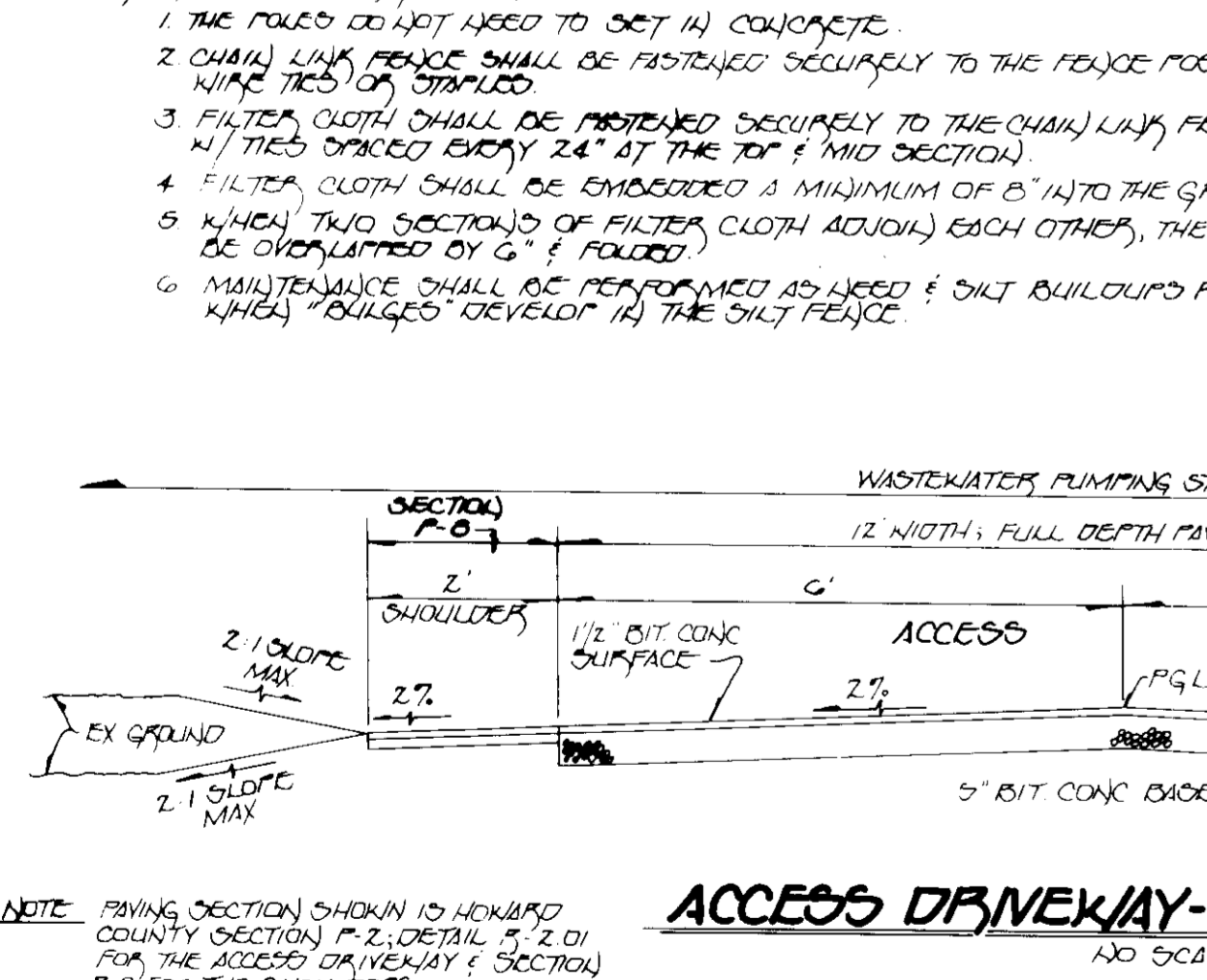
STABILIZED CONSTRUCTION ENTRANCE

- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE - USE 2" STONE, OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE REGRESS OR EGRESS OCCURS.
 5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACEMENT OF STONE. FILTER SHALL NOT BE PLACED OVER EXISTING FURROWS. IF SURFACE WATER, ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE IF PIPING IS IMPRACTICAL, AN ALTERNATE BERM 18" x 1" SLOPED SHALL BE DETERMINED.
 6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS SHALL REQUIRE PERIODIC TOP DRESSING. AN ADDITIONAL STONE AS CONDITIONS DEMAND. PERIODIC TOP DRESSING SHALL BE PERFORMED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
 7. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE CONDUCTED IN AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 8. PERIODIC INSPECTION - NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



SUPER SILT FENCE

- CONSTRUCTION SPECIFICATIONS**
1. THE FENCE DO NOT HAVE TO SET IN CONCRETE.
 2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
 3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH STAPLES EVERY 24" AT THE TOP & MID SECTION.
 4. FILTER CLOTH SHALL BE ENCASED A MINIMUM OF 6" INTO THE GROUND.
 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN, THEY SHALL BE OVERLAPPED BY 6" & FOLDED.
 6. MAINTENANCE SHALL BE PERFORMED AS NEEDED & SILT BUILDUPS REMOVED WHEN CHANGES DEVELOP IN THE SILT FENCE.



ACCESS DRIVEWAY-TYPICAL SECTION

Fisher, Collins & Carter, Inc.
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 627 CENTRAL SQUARE OFFICE PARK
 10015 HICKORY RIDGE ROAD
 COLUMBIA, MARYLAND 21044
 (410) 461-2855

ENGINEER'S CERTIFICATE
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 JAMES R. COLLINS 2/1/97
 SIGNATURE OF ENGINEER DATE

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 DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 JAMES R. COLLINS 2/10/97
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 Cheryl Simmons 2/13/97
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

APPROVED DEPARTMENT OF PLANNING & ZONING
 James R. Collins 2/20/97
 DIRECTOR, JUDITH R. COLLINS, JR. DATE
 Richard Blood 2/13/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 John E. Peterson 2/13/97
 HOWARD SOIL CONSERVATION DISTRICT DATE

DEVELOPER
 6TH FLOOR VENTURE
 10005 HICKORY RIDGE ROAD
 COLUMBIA, MARYLAND 21044
 TELEPHONE: (410) 740-5050

2.0. STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION:
 Using vegetation to cover the barren soil to protect it from erosion, stabilize erosion, and to improve the soil structure and fertility. This includes the use of grasses and other plants to stabilize the soil and to improve its structure and fertility. This includes the use of grasses and other plants to stabilize the soil and to improve its structure and fertility.

LOCATION WHERE PRACTICE APPLIES:
 The practice shall be used on all areas where there is a high risk of erosion or where the soil is exposed. This includes the use of grasses and other plants to stabilize the soil and to improve its structure and fertility.

AFFECTS OF WATER QUALITY AND QUANTITY:
 Planting vegetation in disturbed areas will have an effect on the water runoff, especially in the areas of erosion. This includes the use of grasses and other plants to stabilize the soil and to improve its structure and fertility.

- VEGETATIVE STABILIZATION METHODS AND MATERIALS**
1. Site Preparation: (a) Clear and remove all debris and other obstructions from the site. (b) Grade the site to prevent erosion. (c) Remove any existing vegetation that is not suitable for the site. (d) Amend the soil with organic matter and nutrients from animal manure or other suitable materials. (e) Amend the soil with fertilizer and lime as needed. (f) Amend the soil with other materials as needed.
 2. Soil Amendments: (a) Amend the soil with organic matter and nutrients from animal manure or other suitable materials. (b) Amend the soil with fertilizer and lime as needed. (c) Amend the soil with other materials as needed.
 3. Seeded Preparation: (a) Amend the soil with organic matter and nutrients from animal manure or other suitable materials. (b) Amend the soil with fertilizer and lime as needed. (c) Amend the soil with other materials as needed.

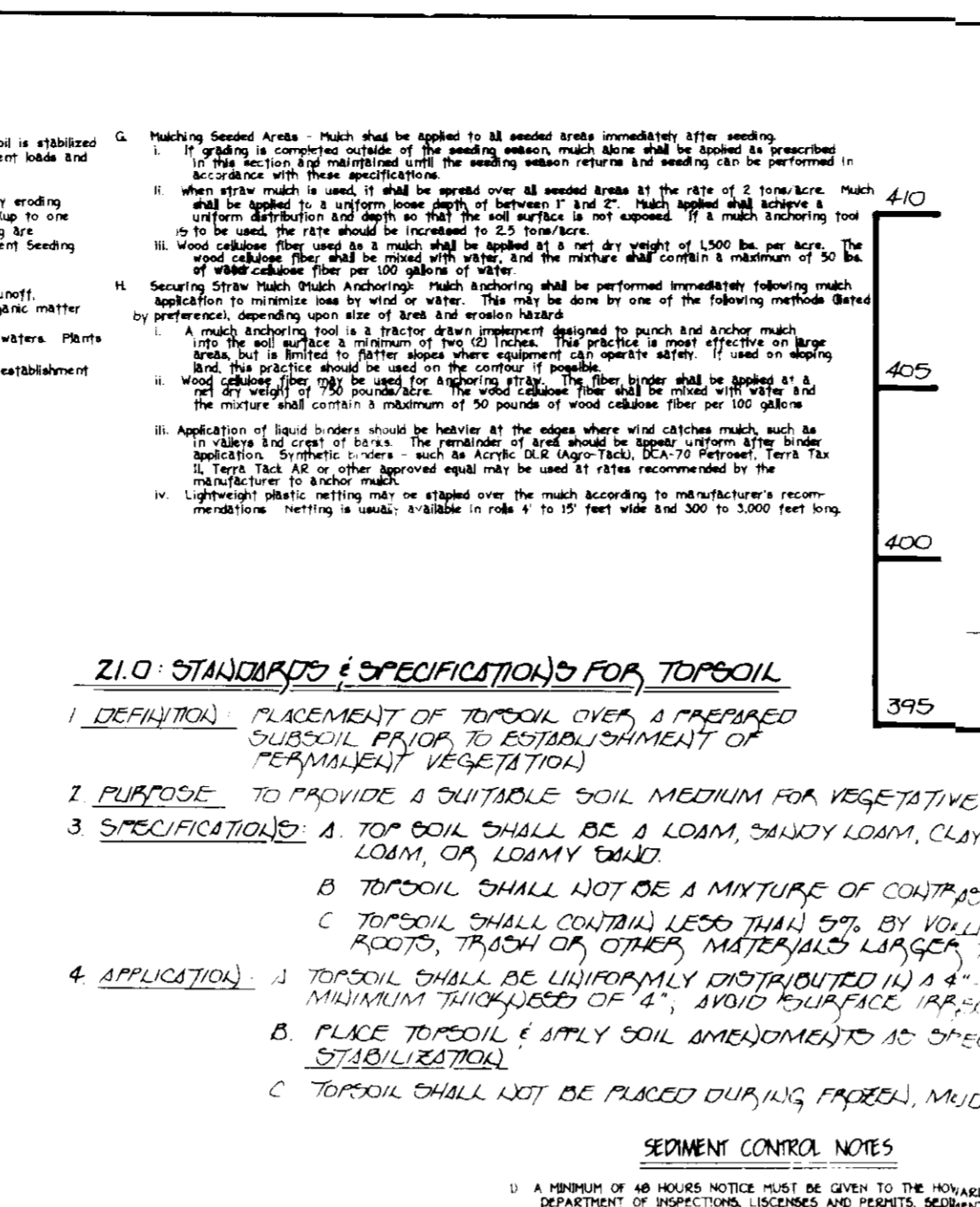
2.1. STANDARDS & SPECIFICATIONS FOR TOPSOIL

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

- PURPOSE:** TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.
- SPECIFICATIONS:**
1. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND.
 2. TOPSOIL SHALL NOT BE A MIXTURE OF COMPACTING, TEXTURED SUBSOILS.
 3. TOPSOIL SHALL CONTAIN LESS THAN 5% BY VOLUME OF CLONERS, GRAVEL, STONES, ROOTS, TRASH OR OTHER MATERIALS LARGER THAN 1/2" IN DIAMETER.
 4. APPLICATION: (a) TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 6" LAYER & LIGHTLY COMPACTED TO A MINIMUM PENETRATION OF 1/2". (b) TOPSOIL SHALL BE PLACED DURING PERIODS OF MOIST OR EXCESSIVELY WET CONDITIONS.

SEDIMENT CONTROL NOTES

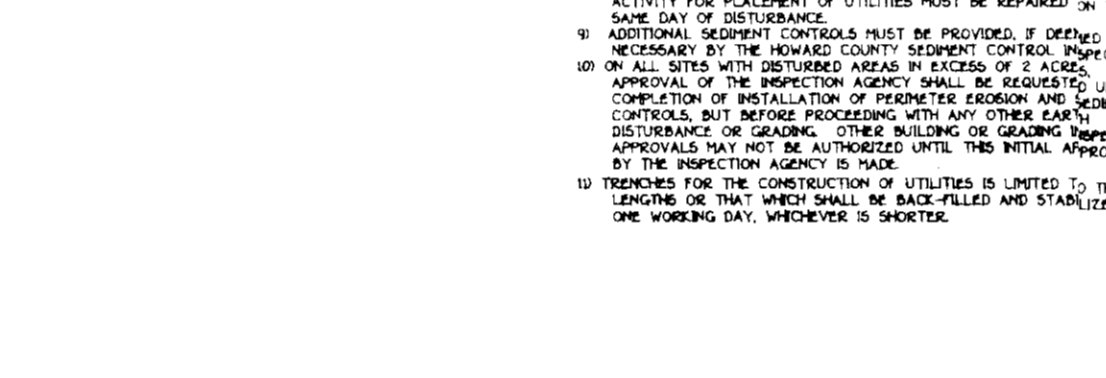
1. A PERMIT OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING PRIOR TO THE START OF ANY CONSTRUCTION PROJECT.
2. ALL VEGETATION, INCLUDING PLANTS, TREES, & SHRUBS, SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
3. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE END OF CONSTRUCTION.
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9. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE END OF CONSTRUCTION.
10. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE END OF CONSTRUCTION.



CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT (2 WEEKS).
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE & SUPER SILT FENCE AS SHOWN ON PLAN (1 DAY).
3. CLEAR & GRUB SITE, GRADE TO SUBGRADE (3 DAYS).
4. CONSTRUCT UTILITIES, PLUMBING, STRUCTURE & FINISHES (6 MONTHS).
5. CONSTRUCT ACCESS DRIVEWAY (1 WEEK).
6. FINE GRADE PERIMETER AREAS AROUND PARKING LOT & ACCESS DRIVEWAY AS REQUIRED (1 DAY).
7. FINE GRADE ALL REMAINING DISTURBED AREAS WITH PERMANENTLY SEDIMENT MIXTURE (1 DAY).
8. THE CONTRACTOR SHALL CONDUCT NECESSARY MAINTENANCE ON THE SEDIMENT CONTROL STRUCTURES THROUGHOUT THE PROJECT.
9. REMOVE SEDIMENT FROM PARKING & ACCESS DRIVEWAY CONSTRUCTION ENTRANCE AS REQUIRED (1 DAY).
10. STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENTLY SEDIMENT MIXTURE (1 DAY).
11. REMOVE PERMANENTLY DISTURBED AREAS WITH PERMANENTLY SEDIMENT MIXTURE (1 DAY).
12. STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENTLY SEDIMENT MIXTURE (1 DAY).

CURB/WHITE STONE DETAIL



LANDSCAPE LEGEND

- 1. TYPE 'A' PERIMETER LANDSCAPING (OVERLAPPING 1/2\"/>

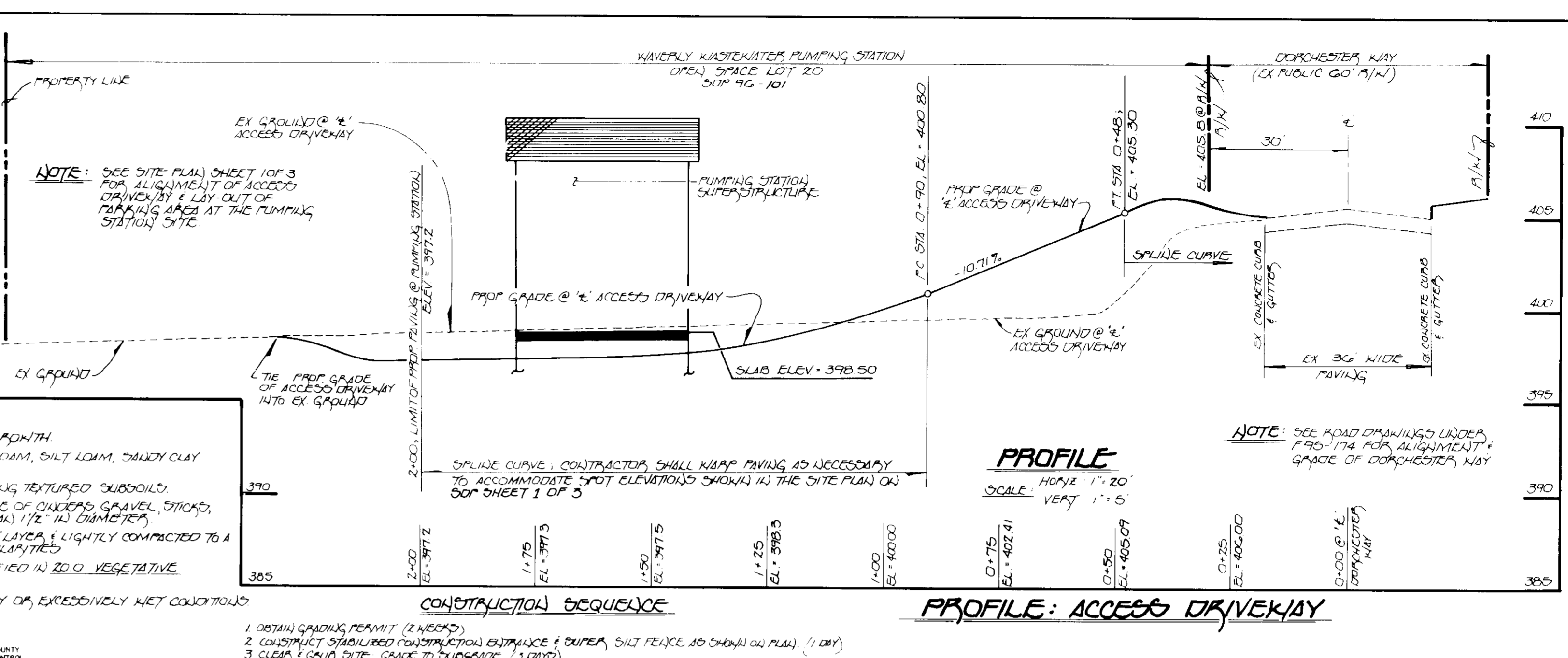
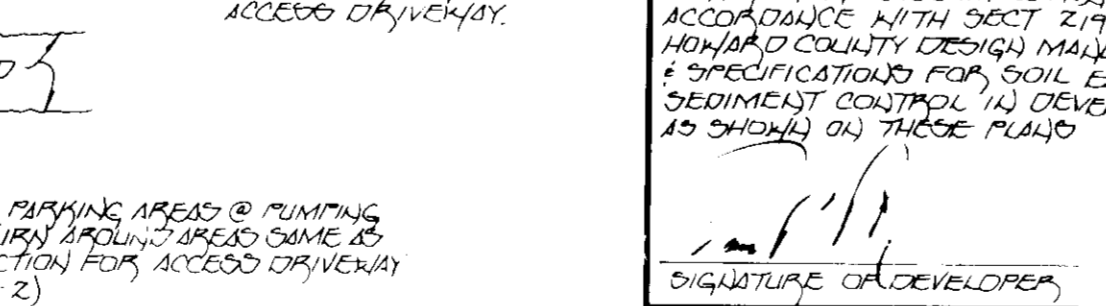
LANDSCAPE PLAN NOTES

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 12.2 OF THE HOWARD COUNTY CODE & THE LANDSCAPE MANUAL.
2. FINANCIAL DURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$3,300.00.
3. LANDSCAPE BIDDING AMOUNT: \$3,300.00.

STAKING DETAIL



TREE PLANTING DETAILS



TOPOGRAPHY MAP

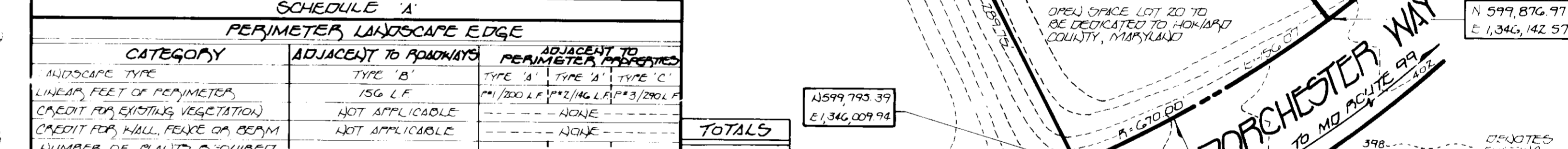


SCHEDULE 'A'

CATEGORY	ADJACENT TO ROADWAYS			ADJACENT TO PERIMETER			TOTALS
	TYPE 'A'	TYPE 'B'	TYPE 'C'	TYPE 'A'	TYPE 'B'	TYPE 'C'	
NUMBER OF PLANTS PROVIDED	3	12/1	12/1	12/1	12/1	12/1	15
NUMBER OF PLANTS PROVIDED	4	12/1	12/1	12/1	12/1	12/1	19
NUMBER OF SHRUBS PROVIDED	4	12/1	12/1	12/1	12/1	12/1	18
NUMBER OF TREES PROVIDED	4	12/1	12/1	12/1	12/1	12/1	34

TOTAL TREES PROVIDED: 33
 TOTAL TREES PROVIDED: 53

DEPARTMENT OF PUBLIC WORKS



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REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Cheryl Simmons 2/13/97
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

APPROVED DEPARTMENT OF PLANNING & ZONING

James R. Collins 2/20/97
 DIRECTOR, JUDITH R. COLLINS, JR. DATE
 Richard Blood 2/13/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 John E. Peterson 2/13/97
 HOWARD SOIL CONSERVATION DISTRICT DATE

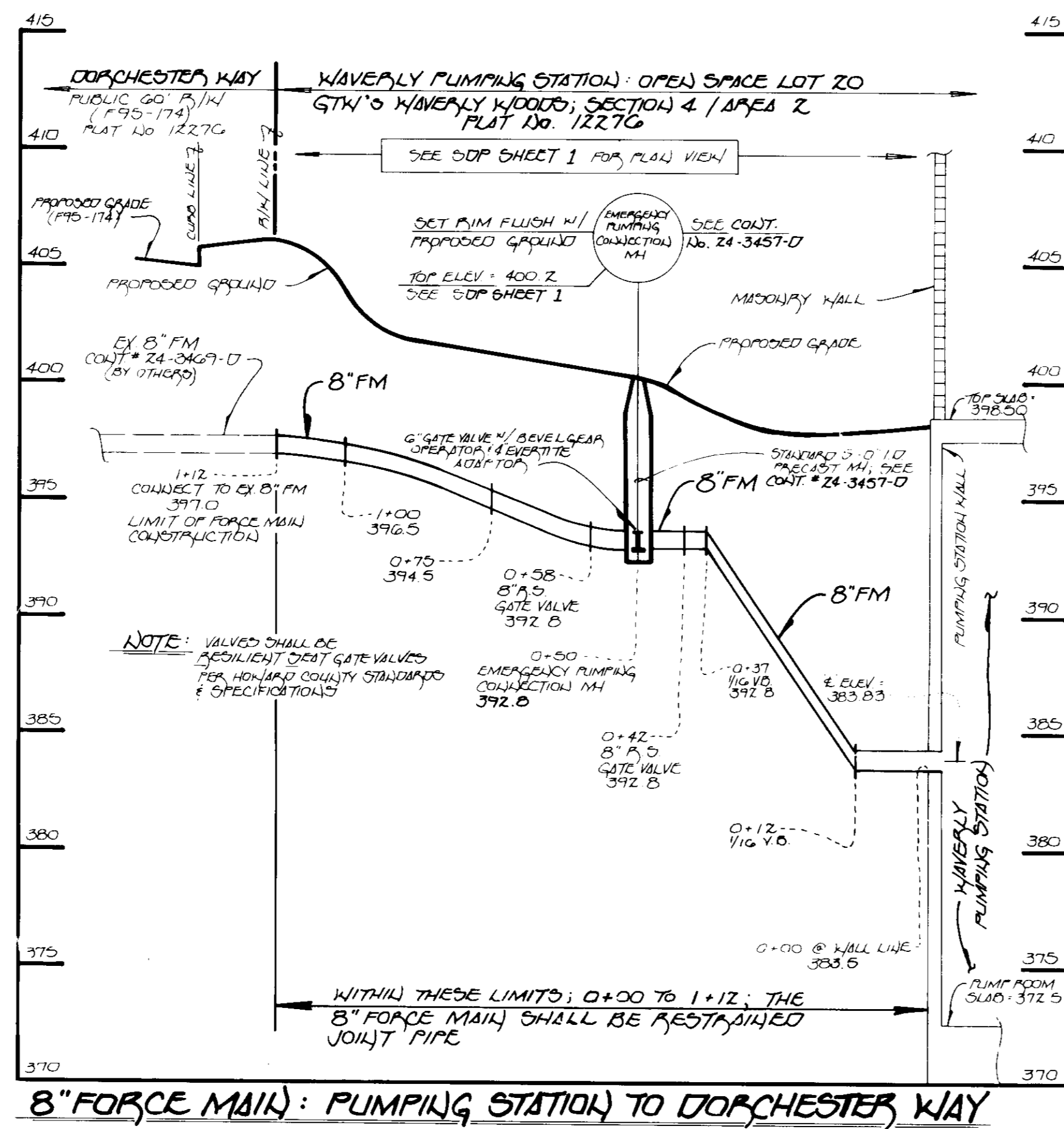
DEVELOPER

6TH FLOOR VENTURE
 10005 HICKORY RIDGE ROAD
 COLUMBIA, MARYLAND 21044
 TELEPHONE: (410) 740-5050

NOTE: \$3,300.00 LANDSCAPE BOND WITH GRADING PERMIT.

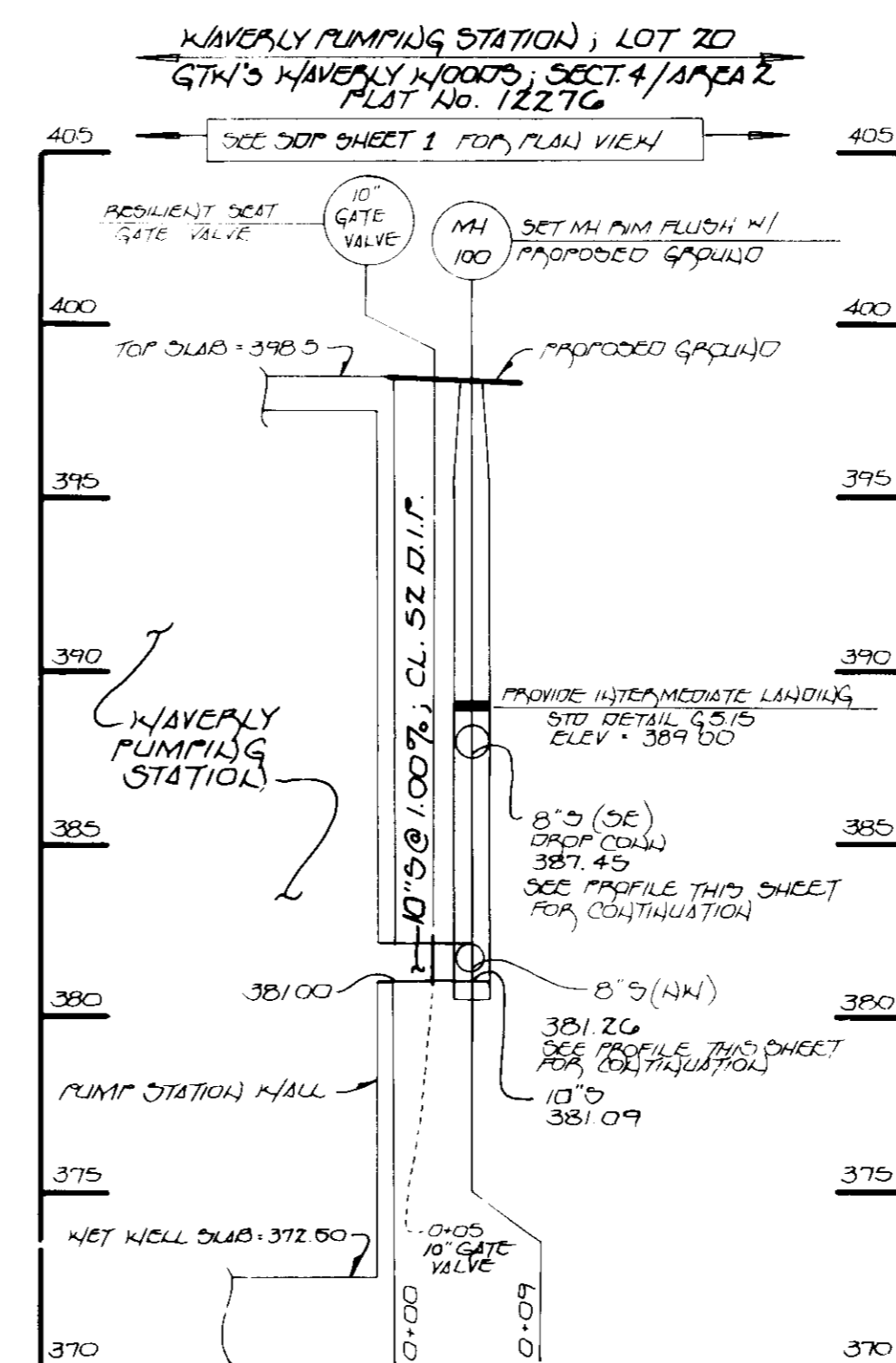
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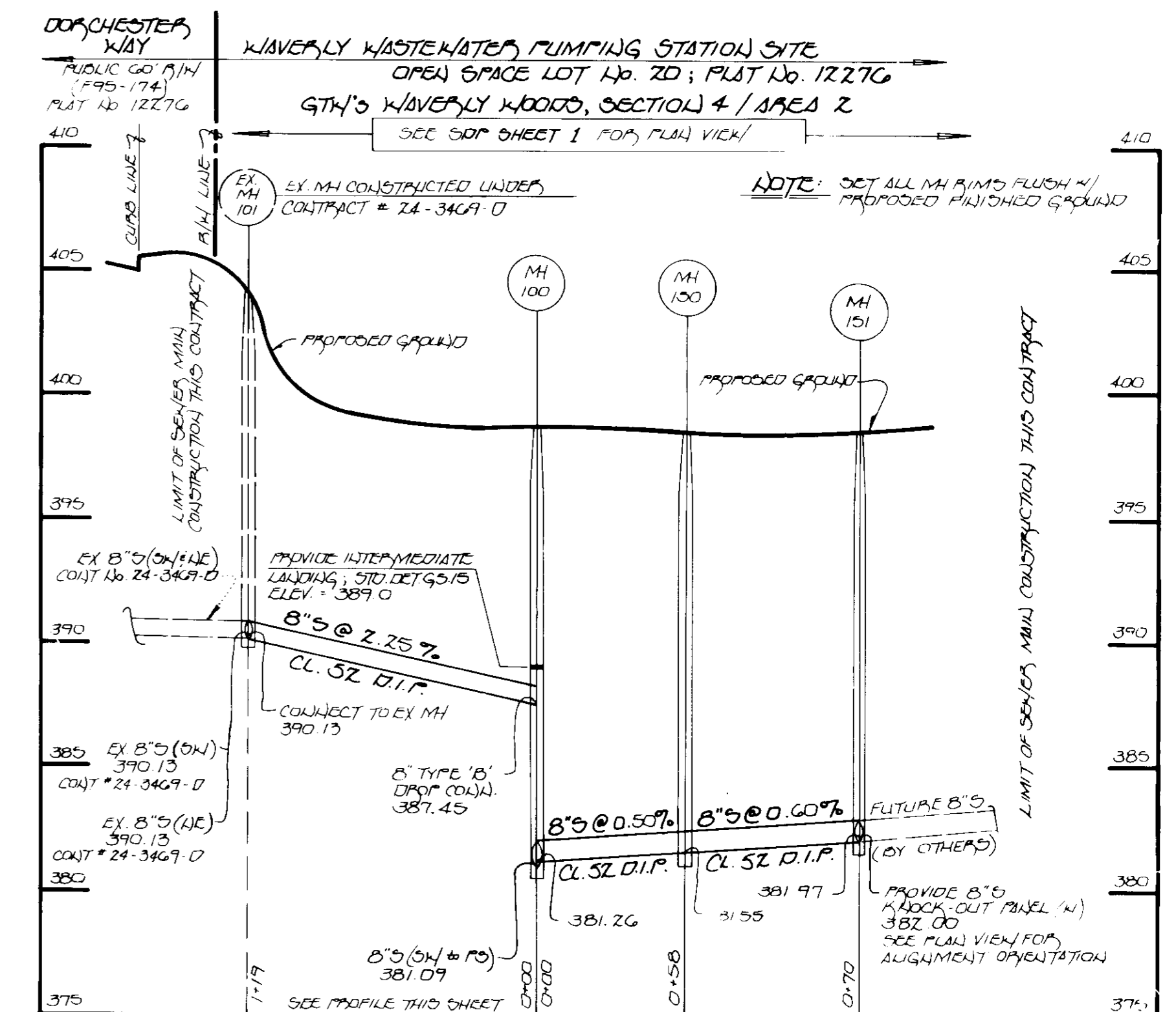
8" FORCE MAIN: PUMPING STATION TO DORCHESTER WAY

SCALE: 1" = 50' HORIZ
1" = 5' VERT



10" SEWER MAIN: INTO PUMPING STATION

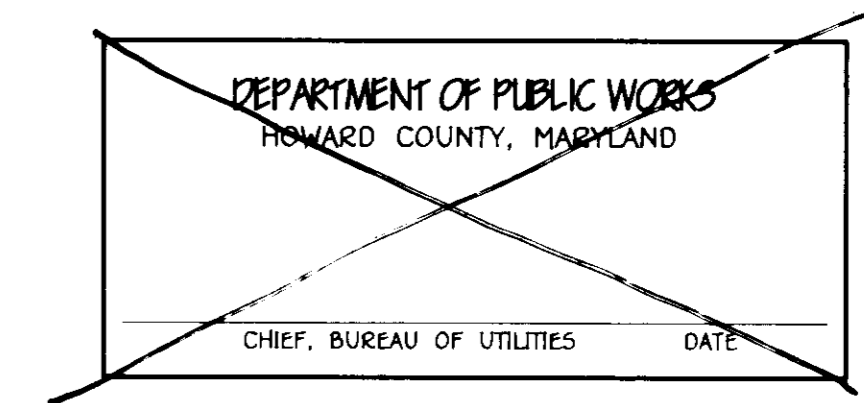
SCALE: 1" = 50' HORIZ
1" = 5' VERT



8" SEWER: WITHIN PUMPING STATION SITE

SCALE: 1" = 50' HORIZ
1" = 5' VERT

PROFILES: 8" & 10" SEWER MAINS & 8" FORCE MAIN



OWNER AND DEVELOPER
GTW JOINT VENTURE
10805 HICKORY RIDGE ROAD
COLUMBIA, MARYLAND 21044
TELEPHONE: (410) 740-5050

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Small R. Duda
SIGNATURE OF ENGINEER
2/10/97
DATE

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Tom R. Koff
SIGNATURE OF DEVELOPER
02/10/97
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Cleef Simms 2/13/97
DATE
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Britton 2/13/97
DATE
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Joseph Kutter, Jr. 2/20/97
DATE
DIRECTION: JOSEPH KUTTER, JR.
Richard Blood 2/19/97
DATE
CHIEF, DIVISION OF LAND DEVELOPMENT
John R. Britton 2/13/97
DATE
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ADDRESS CHART			
LOT No.	ADDRESS		
10.5 LOT 20	10805 HICKORY RIDGE ROAD &		
4	TEMPORARY ADDRESS		
ADDRESS CHART			
PROPERTY/SUBDIVISION		SECTION/AREA	PARCEL/LOT No.
G.T.W.'S WAVERLY WOODS		4 / 2	21 / 20
PLAT No.	BLOCK No.	TAX/ZONE	ELEC. DIST.
11276	6	R-20	2 ND
WATER CODE		SEWER CODE	
405		5993000	

SITE DEVELOPMENT PLAN - PROFILES & DETAILS: 3 OF 3
WAVERLY
WASTEWATER PUMPING STATION
CONTRACT No. 24-3457-D
OPEN SPACE LOT No. 20
TAX MAP 16 PARCEL 21
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SITE DEVELOPMENT PLAN SHEET 3 OF 3
SCALE: AS SHOWN