

RESIDENTIAL; SINGLE FAMILY DETACHED TYPE OF BUILDING: 6 (5 BUILDABLE) NUMBER OF LOTS: NO. OF WATER HOUSE CONNECTIONS: NO. OF SEWER HOUSE CONNECTIONS: DRAINAGE AREA: MIDDLE PATUXENT TREATMENT PLANT: LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER - SAVAGE, MD.

VICINITY MAP

SCALE: 1"-600"

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 DAMAGE 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.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM. 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL
- HAVE A COPY OF VOLUME IV ON THE JOB SITE. 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.
- B. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION - 531-5533

BALTIMORE GAS & ELECTRIC CO.. - CONTRACTOR SERVICES - 050-4620 BALTIMORE GAS & ELECTRIC CO.. - UNDER GROUND DAMAGE CONTROL - 787-9060 MISS UTILITY - 1-000-257-7777

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 TREES, 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 D.I.P. 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 WATERTICHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 17. HOUSE(5) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED. 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN
- THE SPECIFICATIONS.
- 19. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- 20. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER
- MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT. 21. ALL WATER MAINS SHALL BE O.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL
- BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS. 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 27. ALL O.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.
- 29. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PLAN REFERENCE NUMBERS: F-98-109

CONTRACT NO. 34-3728-D. THE BOARMAN ESTATE LOT NOS. 3 THRU 8 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

11-16-98

HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS nial square office park - 10272 Baltimore national pike



DRAWN BY : J.C.L. CHECKED BY : M.J.M. DATE: ovember 1998 DATE FILE NAME: G:/ORAWINGS/30505/W&S/PLANBASE.DWG **REVISION**

PLAN VIEW

600' SCALE MAP NO. 35 BLOCK NO. 14 F.C.C. WORK ORDER NO. 60878

THE BOARMAN ESTATE LOT NOS. 3 THRU &

CONTRACT NO. 34 - 3728 -D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHOWN **SHEET**

1 of 2

30' WATER, SEWER & UTILITY EASEMENT LOT. Nos. 3-7 25' PRIVATE ACCESS PLACE SEE SHEET 1 FOR PLAN VIEW OF WATER & SEWER MAINS RIM ELEV. = 407.67 420 RIM ELEV. = 398.00 <u>415</u> SET MH RIM FLUSH WITH EXISTING GROUND PROPOSED GRADE 410 RIM ELEV. = 393.40 <u>405</u> 4+CL ----4"*4" TEE 405.0 400 44C9 V32.HB 404.7 4"PLUG I BUTTRETT 401.5 HITERMEDIATE LANDING 7TD. DET. G5.15 ELEY. 399.00 <u>395</u> 8"5 e 0.72%; CL. 52 D.P. 8" 5 ● 0.50%; CL. 52 D.I.P. <u>390</u> 4"7HC @ M (e L00 %) WT 5 392.19 @ MJ LOT 7 391.20 EX.8"9 (NW) 388,48 <u>385</u> CNST.* 34-327C-D 38C.03 0+00 Connect to Ex.5" W Y 8"×4" Tapping Fleeve 386.03 <u>380</u> CL. 52 D.I.P. ONLY CL. 52 DI.P. ONLY NOTE: THE HORIZONTAL ALIGNMENT OF THE PROP. WATER AND SEWER MAINS MH WALL TO MH WALL MH WALL TO MH WALL DO NOT CROSS ONE ANOTHER. WATER & SEWER MAINS: PRIVATE ACCESS PLACE

F75HER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

> ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055

M.J.M.

DRAWN BY

CHECKED BY

M.J.M.

DATE : November,1990

REVISION

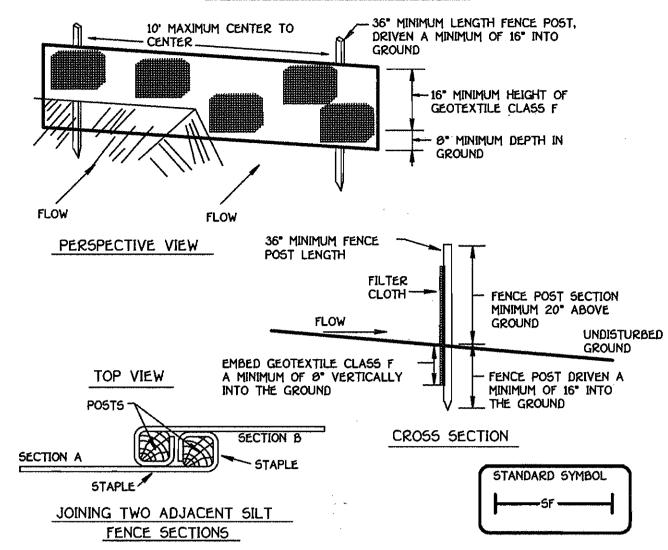
DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING

HOWARD COUNTY, MARYLAND

DETAIL 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

Geotextile shall be fastened securely to each fence post with wire ties
or staples at top and mid-section and shall meet the following requirements
for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft / minute (max.)*	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE

Silt Fence Design Criteria

5lope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length	
Flatter than 50:1	unlimited	unlimited	
50:1 to 10:1	125 feet	1,000 feet	
10:1 to 5:1	100 feet	750 feet	
5:1 to 3:1	60 feet	500 feet	
3:1 to 2:1	40 feet	250 feet	
2:1 and steeper	20 feet	125 feet	

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

CONTRACT NO. 34-3728-D
THE BOARMAN ESTATE
LOT NOS. 3 THRU 0
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY. MARYLAND

WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

SCAL

CONTRACT NO. 34 - 3728 -D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LOT NOS. 3 THRU 8

PROFILES

WATER AND SEWER MAINS

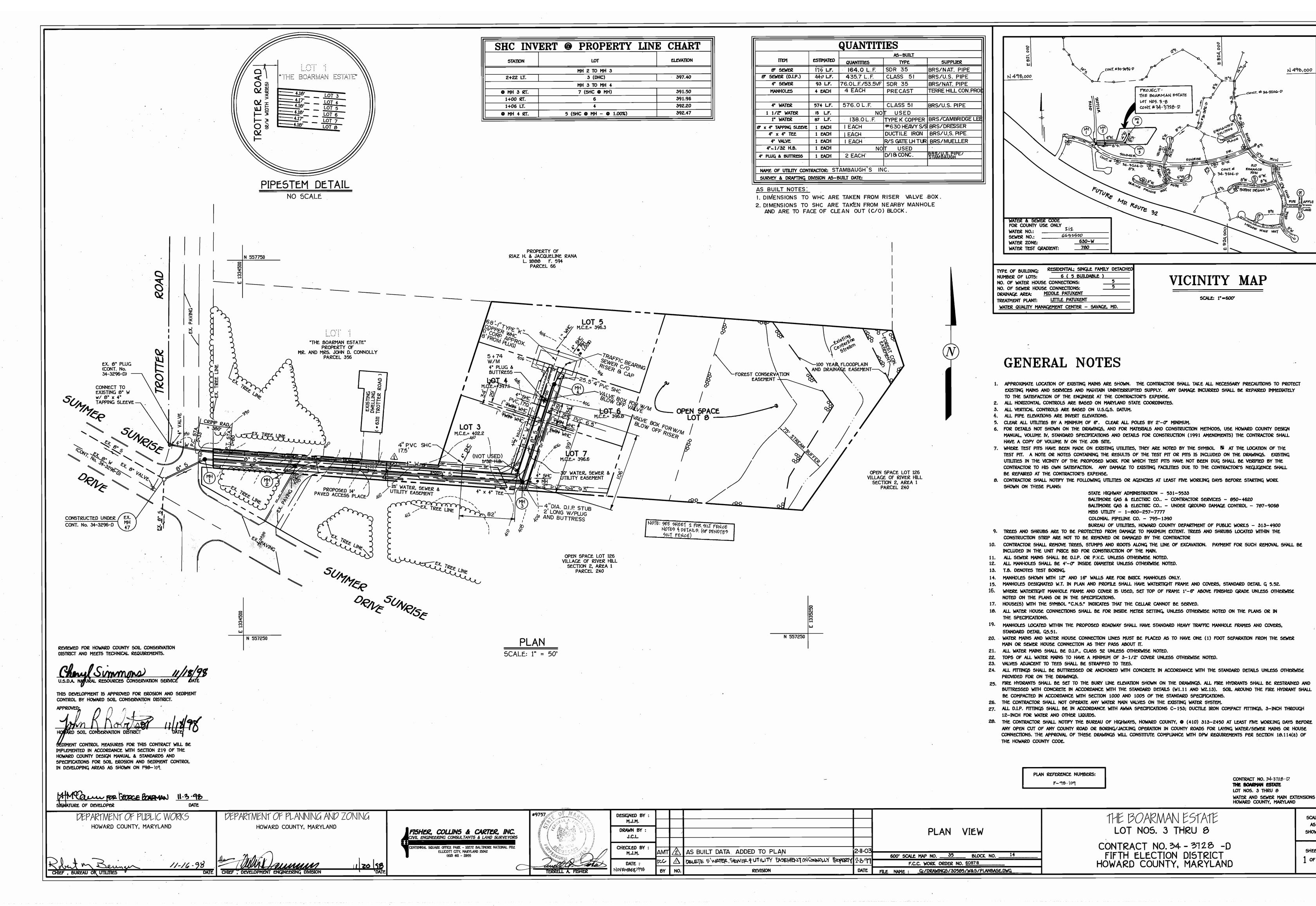
600' SCALE MAP NO. 35 BLOCK NO.

F.C.C. WORK ORDER NO. 60868

DATE FILE NAME : G:/DRAWINGS/30505/W&S/PROFILESHT.DWG

SHEET 2 of 2

SHOWN

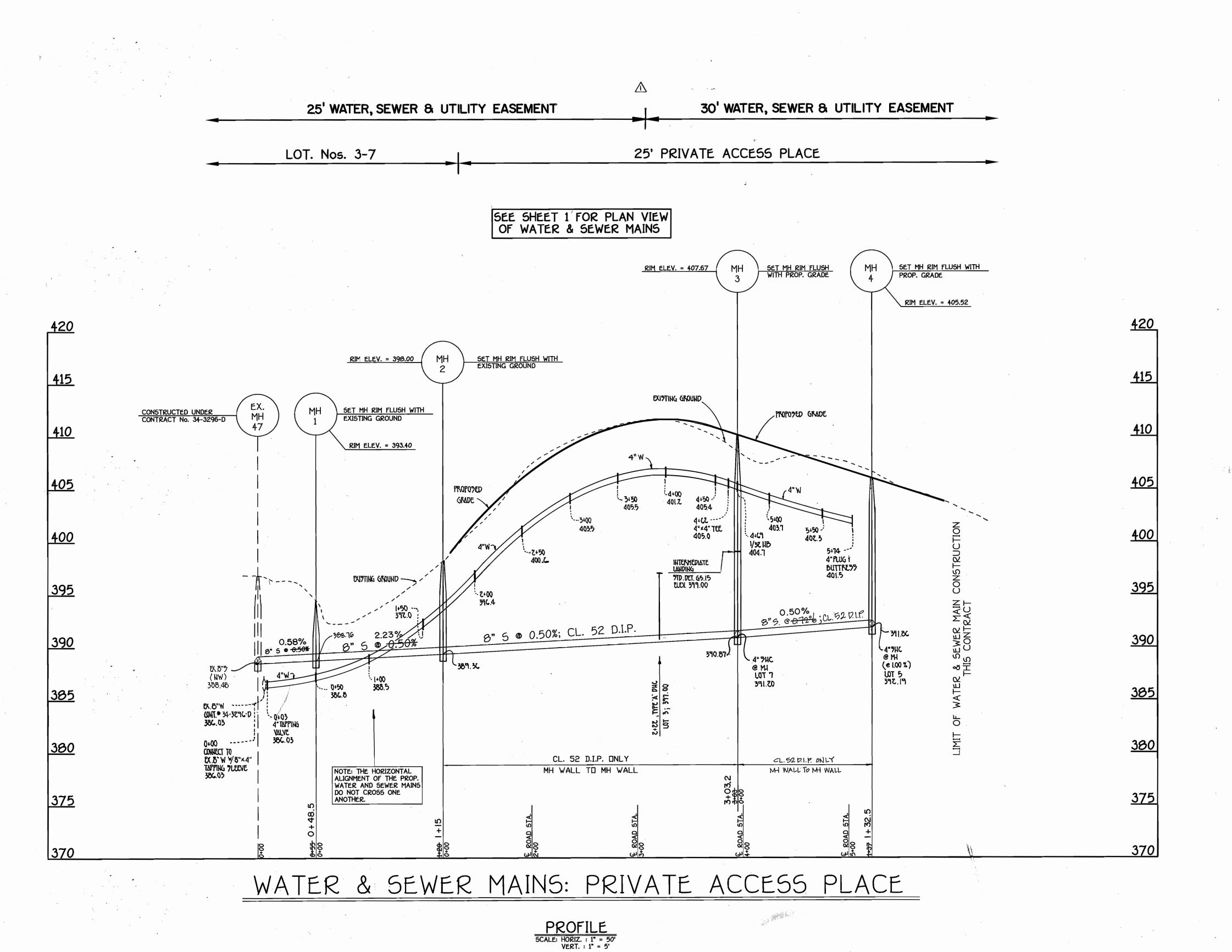


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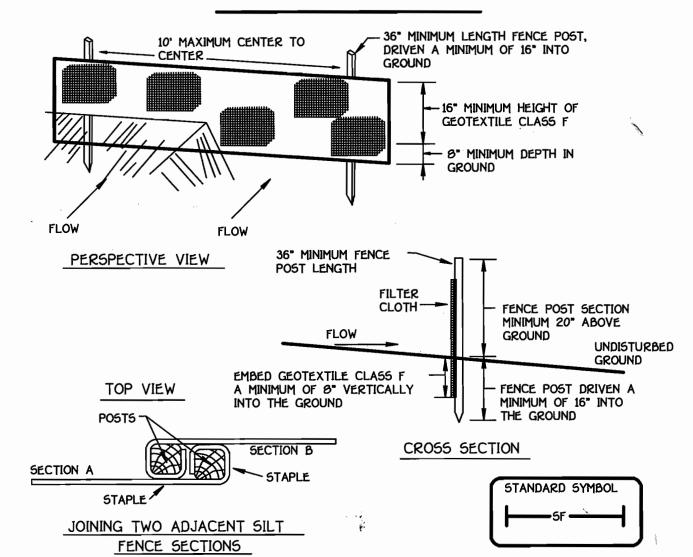
SCALE

SHOWN

1 of 2



DETAIL 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength Tensile Modulus Flow Rate Filtering Efficiency	50 bs/in (min.) 20 bs/in (min.) 0.3 gäl ft / minute (max.)* 75% (min.)	Test: MSMT Test: MSMT Test: MSMT Test: MSMT	50 32
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 Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE

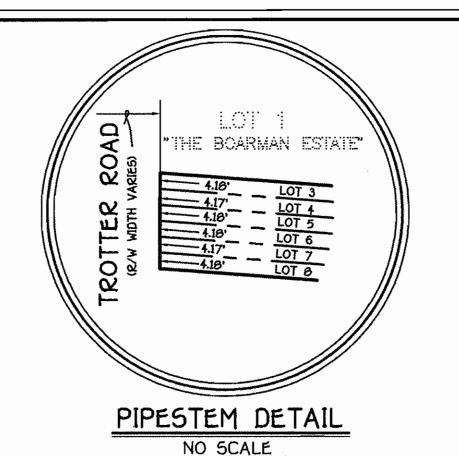
Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

CONTRACT NO. 34-3728-D
THE BOARMAN ESTATE
LOT NOS. 3 THRU 0
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF PLANNING AND ZONING THE BOARMAN ESTATE **PROFILES** HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND LOT NOS. 3 THRU 8 FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS SHOWN WATER AND SEWER MAINS CONTRACT NO. 34 - 3728 -D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CHECKED BY SHEET AS BUILT DATA ADDED TO PLAN M.J.M. 600' SCALE MAP NO. 35 BLOCK NO. _ 2 of 2 REVISE EASEMENT CALL-OUTS F.C.C. WORK ORDER NO. 60868 DATE FILE NAME : G:/DRAWINGS/30505/W&5/PROFILESHT.DWC



"THE BOARMAN ESTATE"
PROPERTY OF
MR. AND MRS. JOHN D. CONNOLLY

PROPOSED 14'
PAVED ACCESS PLACE

SHC INVE	RT @ PROPERTY	LINE CHART
STATION	LOT	ELEVATION
	MH 2 TO MH 3	
2+22 LT.	3 (DHC)	397.40
	MH 3 TO MH 4	
● MH 3 RT.	7 (5HC @ MH)	391.50
1+00 RT.	6	391.96
1+06 LT.	4	392.20
@ MH 4 RT.	5 (SHC @ MH - @ 1.00%)	392.47

PROPERTY OF RIAZ H. & JACQUELINE RANA L. 1000 F. 594 PARCEL 66

-30' WATER, SEWER &

OPEN SPACE LOT 126 VILLAGE OF RIVER HILL

PLAN

SCALE: 1" = 50"

4" PLUG & BUTTRESS

LOT 3 M.C.E.= 402.2

UTILITY EASEMENT

EX. TREE LINE

Cibration TREE LINE

	(QUANTIT:	IES		
			A5-BUILT		
ITEM	ESTIMATED	QUANTITIES	TYPE	SUPPLIER	
8" Sewer	176 LF.				
8" SEWER (D.I.P.)	440 LF.				
4" Sewer	93 LF.				
MANHOLES	4 EACH				
4" WATER	574 LF.		,		
1 1/2" WATER	.15 L.F.				
1" WATER	87 LF.				
7 x 4 tapping sleeve	1 EACH				
4" x 4" TEE	1 EACH				
4" VALVE	1 EACH				
4"-1/32 H.B.	1 EACH				
4" PLUG & BUTTRESS	1 EACH				
NAME OF UTILITY CONT	RACTOR:				
SURVEY & DRAFTING D	IVISION AS-B	JILT DATE:			

-100 YEAR FLOODPLAIN AND DRAINAGE EASEMENT-

OPEN SPACE LOT 126

VILLAGE OF RIVER HILL SECTION 2, AREA 1

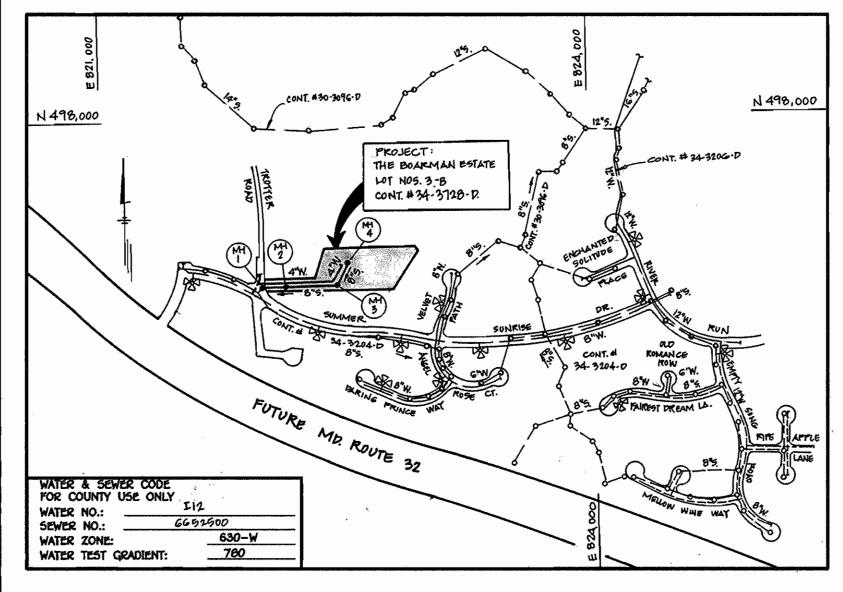
PARCEL 240

-FOREST CONSERVATION

N 557250

Note: see sheet 2 for sut fence notes 1 details. (Sf denotes

SILT FENCE)



TYPE OF BUILDING:	RESIDENTIAL; SINGLE I	FAMILY DETACHED
NUMBER OF LOTS:	6 (5 BUILDABL	£)
NO. OF WATER HOUSE	CONNECTIONS:	5
NO. OF SEWER HOUSE		
DRAINAGE AREA:	MODLE PATUXENT	
TREATMENT PLANT:	LITTLE PATUXENT	
WATER QUALITY MANA	GEMENT CENTER - SA	VAGE, MD.

VICINITY MAP

5CALE: 1"=600"

GENERAL NOTES

- 1. 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 damage 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. 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE,
- 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.
- B. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION - 531-5533

BALTIMORE GAS & ELECTRIC CO.. - CONTRACTOR SERVICES - 850-4620 BALTIMORE GAS & ELECTRIC CO.. - UNDER GROUND DAMAGE CONTROL - 707-9060 MISS UTILITY - 1-800-257-7777

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 TREES, 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 D.I.P. 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 PLANS OR IN THE SPECIFICATIONS. 17. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED. 10. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN
- 19. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- 20. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- 21. ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 24. ALL PITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND

BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL

- BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS. 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 27. 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.
- 28. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PLAN REFERENCE NUMBERS: F-98.109

CONTRACT NO. 34-3728-17 THE SCARMAN ESTATE LOT NOS. 3 THRU 0 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

HMCaur FOR GEORGE BOARMAN 11.3.98 SMATURE OF DEVELOPER DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

Connect to existing 0° w w/0° x 4° tapping sleeve —

ORNE

CONSTRUCTED UNDER EX. MH

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE

IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

IN DEVELOPING AREAS AS SHOWN ON F98-109.

DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

N 557250

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS quare office park – 10272 Baltimore national pike ellicott city, maryland 21042



DESIGNED BY :

MJ.M.					
DRAWN BY: J.C.L.					
HECKED BY: MJ.M.					
DATE :	tec	Δ	belete 5'water. Sewer futility tasement on connolly troperty	2899	****
iember 1998	ВY	NO.	REVISION	DATE	

PLAN VIEW

LOT NOS. 3 THRU 8 CONTRACT NO. 34 - 3128 -D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

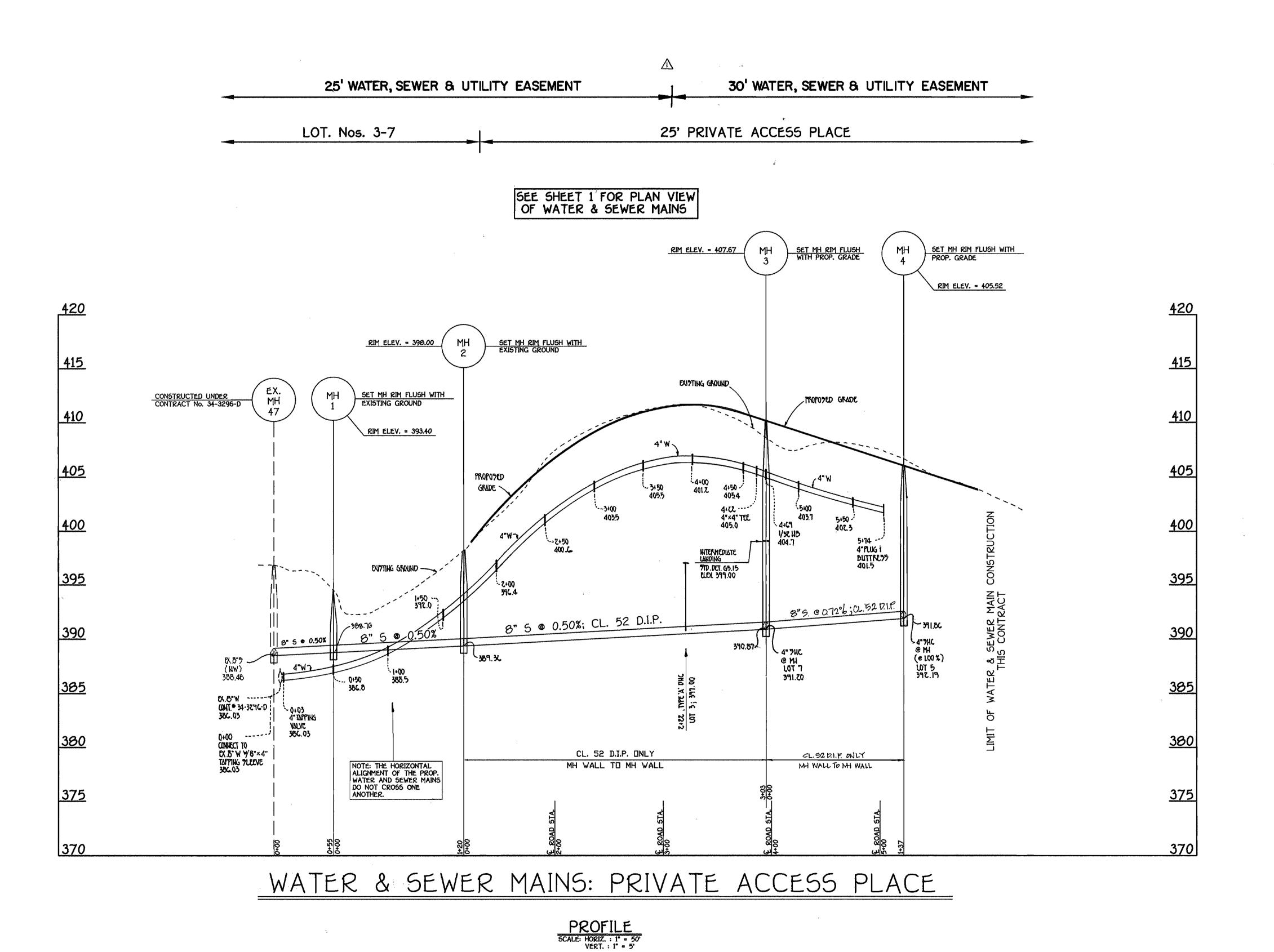
THE BOARMAN ESTATE

SHOWN Sheet

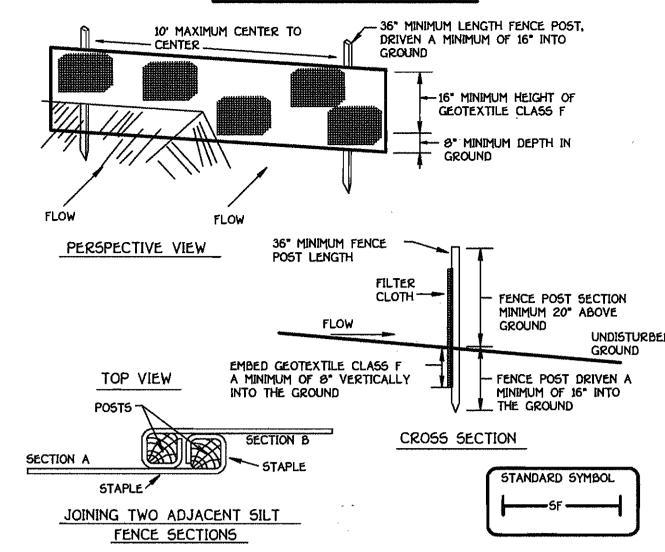
11-16-98

600' SCALE MAP NO. 35 BLOCK NO. 14 F.C.C. WORK ORDER NO. 60878 FILE NAME: G:/ORAWINGS/30585/W&S/PLANBASE.DWG

1 of 2



DETAIL 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength 50 fbs/in (min.)

Test: MSMT 509

Tensile Modulus 20 lbs/in (min.)

Test: MSMT 509

Flow Rate 0.3 gal ft / minute (max.)*

Test: MSMT 322

Filtering Efficiency 75% (min.)

Test: MSMT 322

Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length	
Flatter than 50:1	unlimited	unlimited	
50:1 to 10:1	125 feet	1,000 feet	
10:1 to 5:1	100 feet	750 feet	
5:1 to 3:1	60 feet	500 feet	
3:1 to 2:1	40 feet	250 feet	
2:1 and steeper	20 feet	125 feet	

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

CONTRACT NO. 34-3728-0
THE SOARMAN ESTATE
LOT NOS. 3 THRU 0
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLBLIC WORKS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

LOW DOWN 11/20/98



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,	SONAL EN
	well in who
	TERRELL A. FISHER

DESEMBLED DT :		1			<i>*</i>
MJ.M.					ם מספון בכ
DRAWN BY:]				PROFILES
J.C.L.					WATER AND SEWER MAINS
CHECKED BY :					
MJ.M.					600' SCALE MAP NO. 35 BLOCK NO. 14
DATE :	FCC	Δ	revise easement call-outs	2.8.99	F.C.C. WORK ORDER NO: 60868
lovember,1998	BY	NO.	REVISION	DATE	FILE NAME: G:/DRAWINGS/30505/W&5/PROFILESHT.DWG

THE BOARMAN ESTATE LOT NOS. 3 THRU 8

CONTRACT NO. 34 - 3728 -D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND as Shown Sheet

SHEET 2 OF 2