
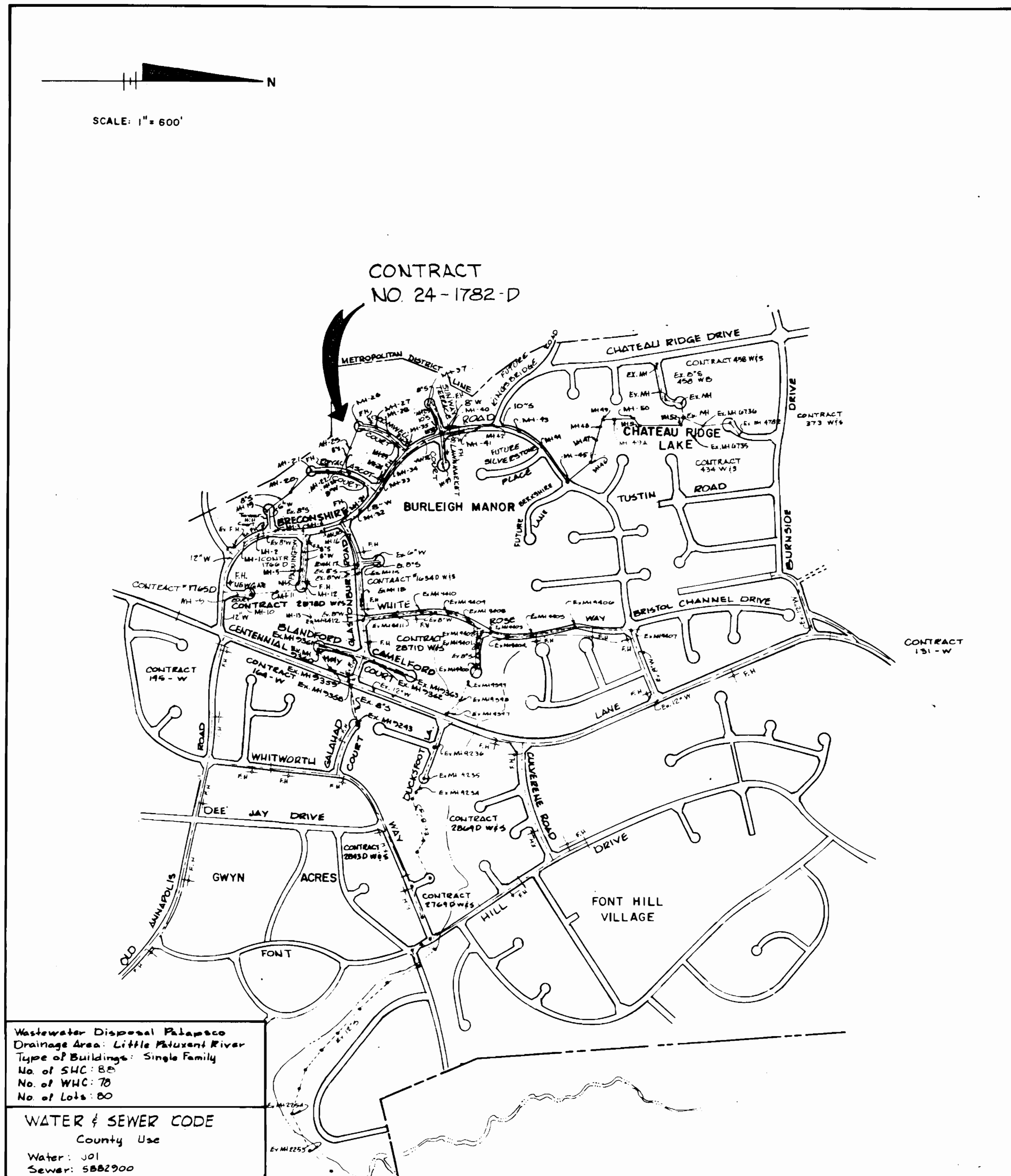


GENERAL NOTES

- 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.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USED HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- 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:
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICES 850-4820
  - BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 859-9004
  - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
  - MISS UTILITY - 1 - 559-0100
  - COLONIAL PIPELINE CO. - 795-1390/G&P TELEPHONE CO. - 1-800-257-7777
  - BUREAU OF UTILITIES HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO A MAXIMUM EXTENT. TREES AND SHRUBS, LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 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.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS 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 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL 65.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
10" Sewer L.F.	1450		
8" Sewer L.F.	5130		
Sewer Manholes	35		
8" Water L.F.	3350		
6" Water L.F.	720		
Five Hydrants Ea	7		
8" Valve Ea	8		
6" V (Except F.H.)	3		
1" W.H.C. L.F.	420		
3/4" W.H.C. L.F.	1620		
6" S.H.C. L.F.	2150		
3" Blowoff	2		



CONTRACT NO. 24-1782-D  
 BURLEIGH MANOR  
 HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District  
 APPROVED

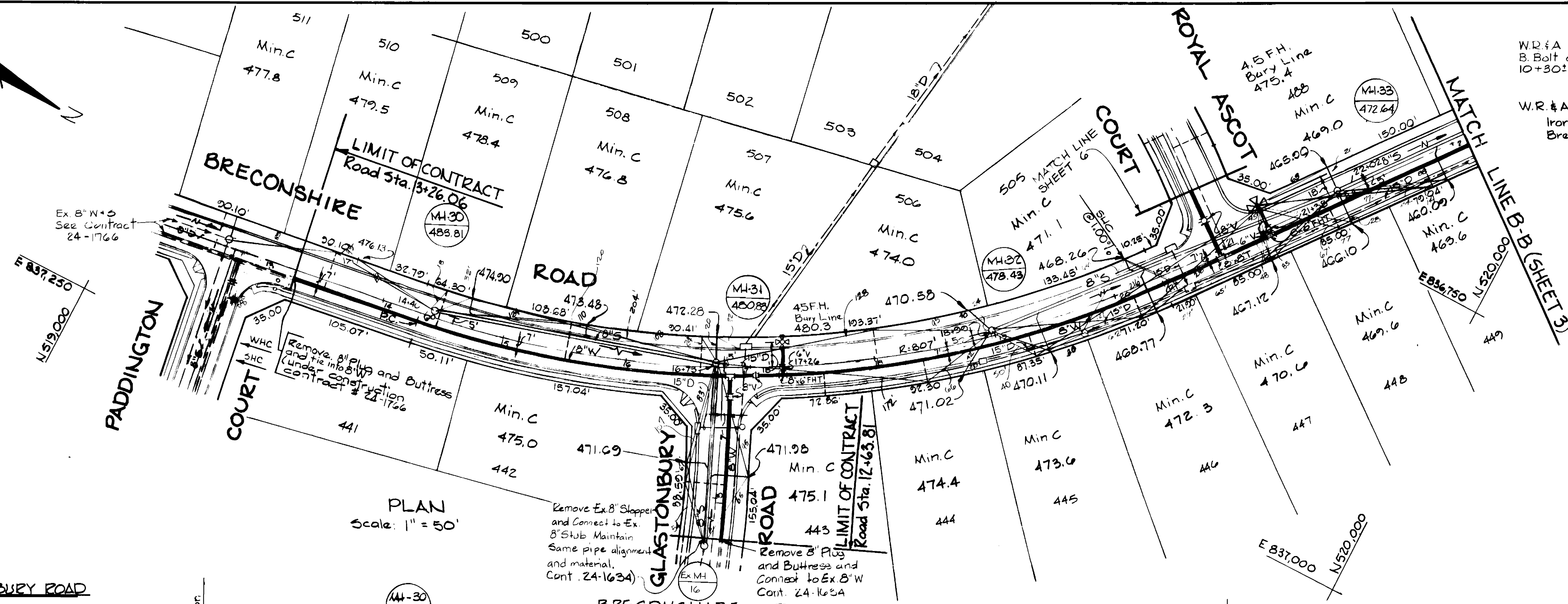
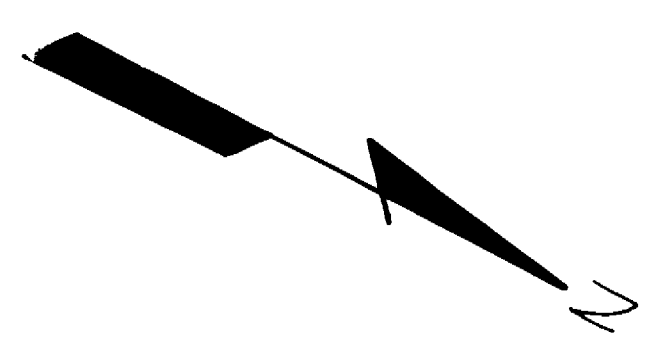
HOWARD S.C.D. DATE \_\_\_\_\_

Sediment Control Measures for this Contract will be implemented in accordance with Section 29 of the Standard Specifications and Road Construction Drawings F-88-146

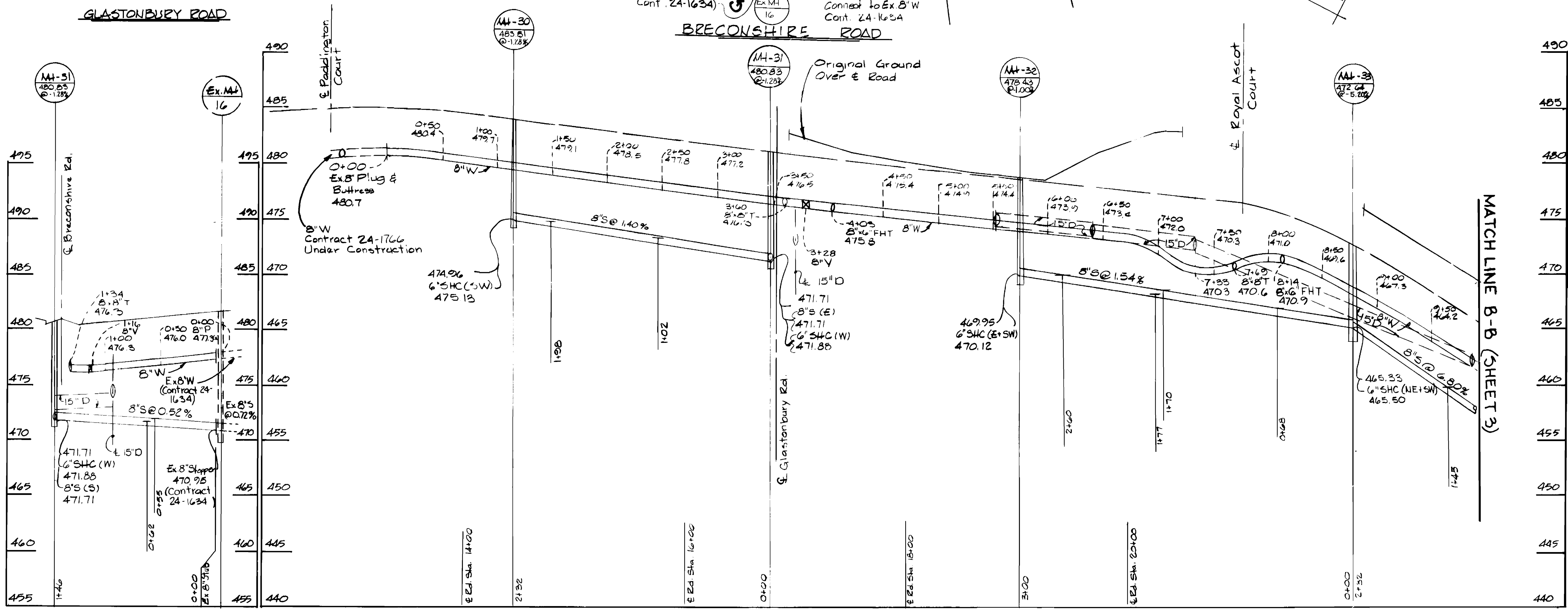
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS - DATE _____ CHIEF - BUREAU OF ENGINEERING - DATE _____ CHIEF - BUREAU OF UTILITIES - DATE _____	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND DATE 1-26-88	DES. S.J.G. R.L.P. CHK. R.B.N. DATE 1-26-88	VICINITY MAP AND GENERAL NOTES	BURLEIGH MANOR SECTION 3 AREA 4 LOTS 442-522 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1782-D	SCALE 1"=600' SHEET 1 OF 9
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**BENCH MARKS**

W.D. & A. B.M.# EL. 483.76  
 B. Bolt on F.H. 18'± North of E Station  
 10+30± Glastonbury Road.  
 W.R. & A. B.M. W-332 EL. 440.16  
 Iron Pipe 140'± West of E Sta 29+35±  
 Breconshire Rd.



PLAN  
 Scale: 1" = 50'



Scale: Hor. 1" = 50'  
 Vert. 1" = 5'

24,510-8375

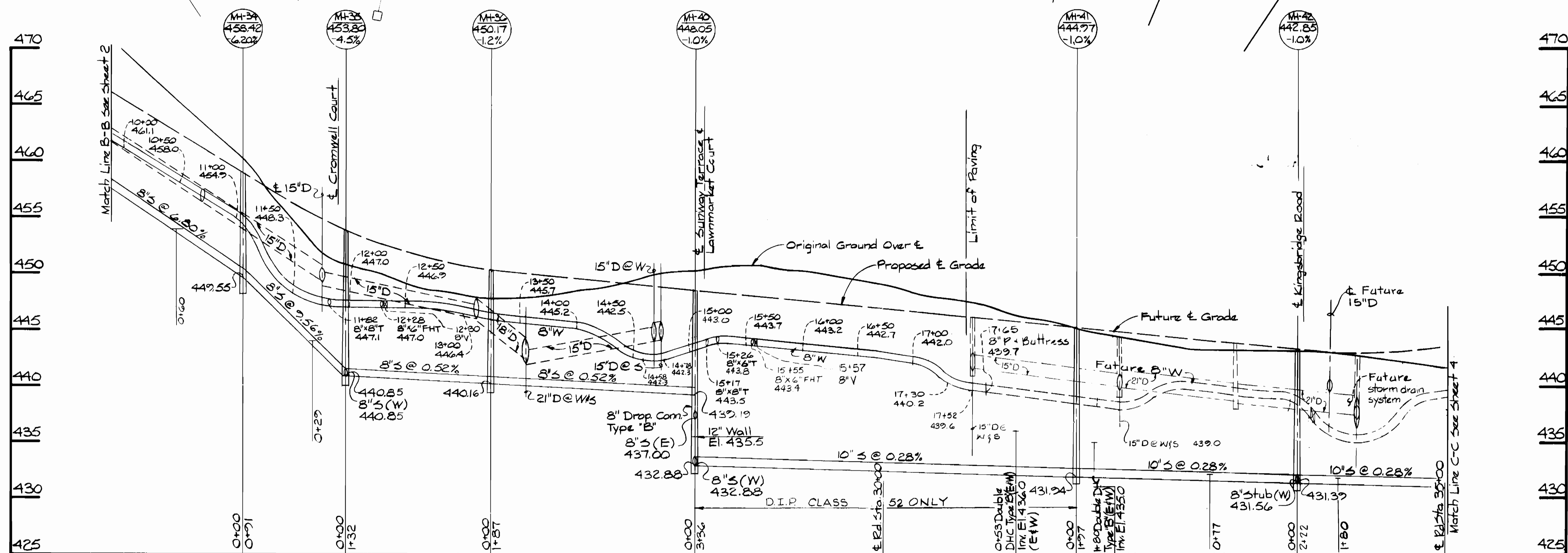
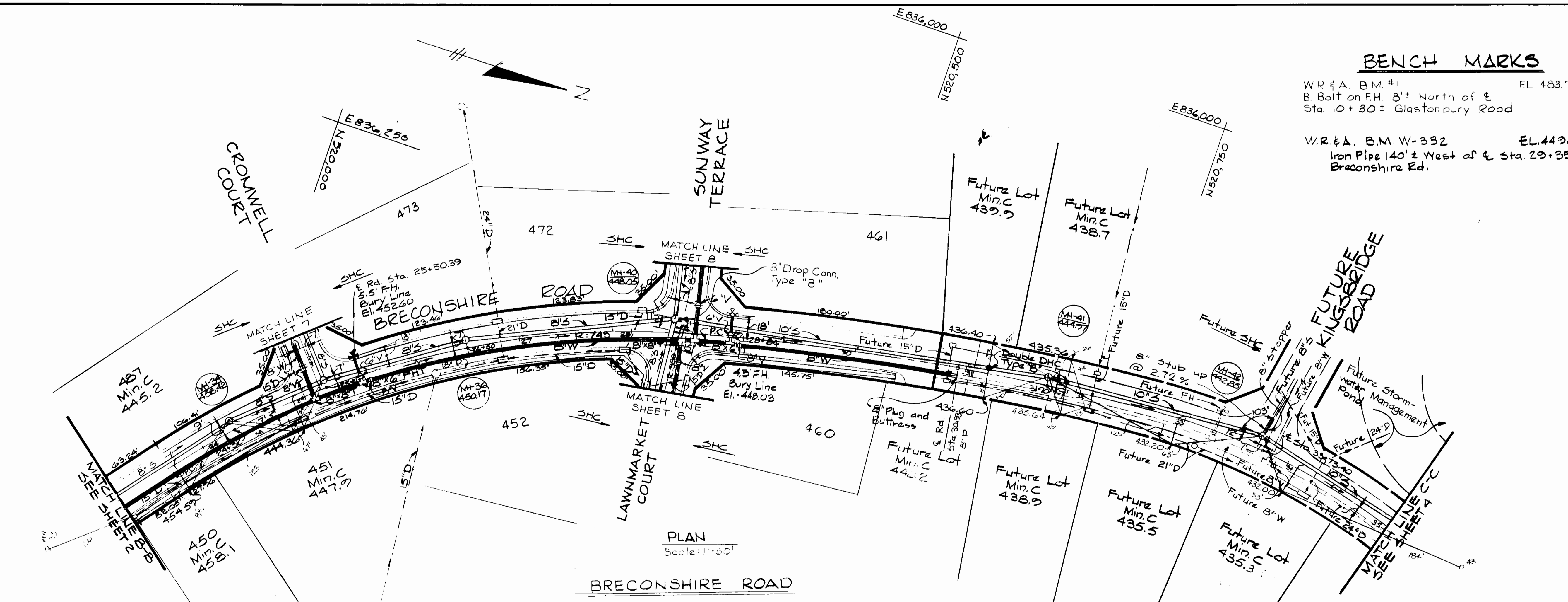
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Chief - Bureau of Engineering - DATE Chief - Bureau of Utilities - DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND	DES. SJG. DRN. RLP. CHK. R.B.J. DATE: 1/2/88	PLAN & PROFILE OF WATER & SEWER MAINS AS per Bureau of Engineering Comments #4,5,6 3/2/88	BURLEIGH MANOR SECTION 3 AREA 4 LOTS 442-522 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1782.D	SCALE AS SHOWN SHEET 2 OF 9
		DATE: 1/2/88 BY NO. _____ REVISION _____ DATE _____	600' SCALE MAP NO. 24 BLOCK NO. _____	January 26, 1988	



**BENCH MARKS**

W.R. & A. B.M. #1 EL. 483.76  
 B. Bolt on F.H. 18'± North of & Sta. 10+30± Glastonbury Road

W.R. & A. B.M. W-392 EL. 443.16  
 Iron Pipe 140'± West of & Sta. 20+35± Braconshire Rd.

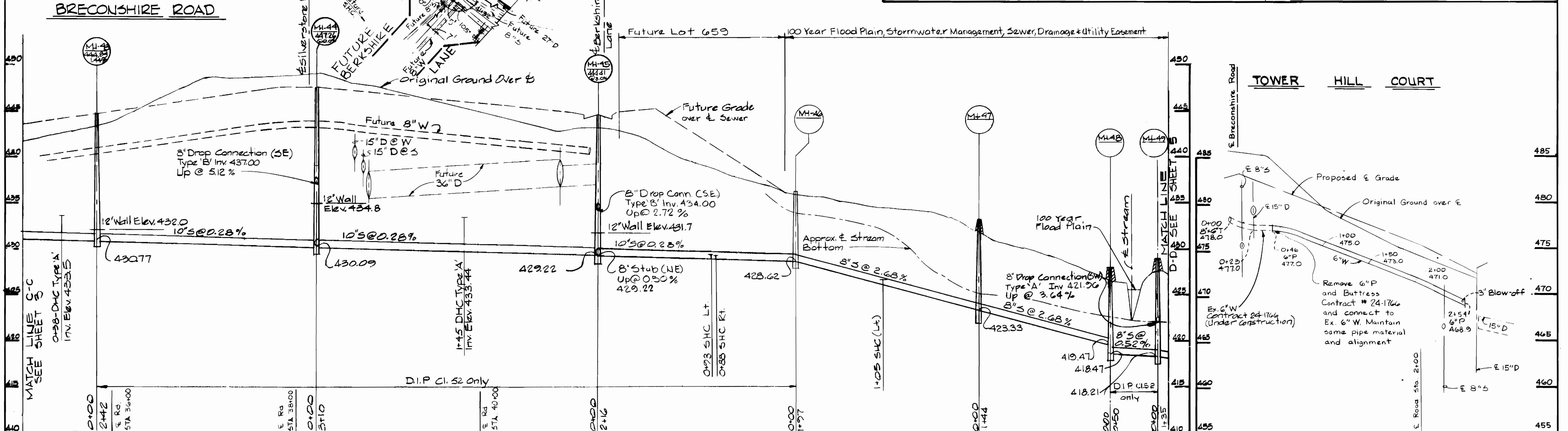
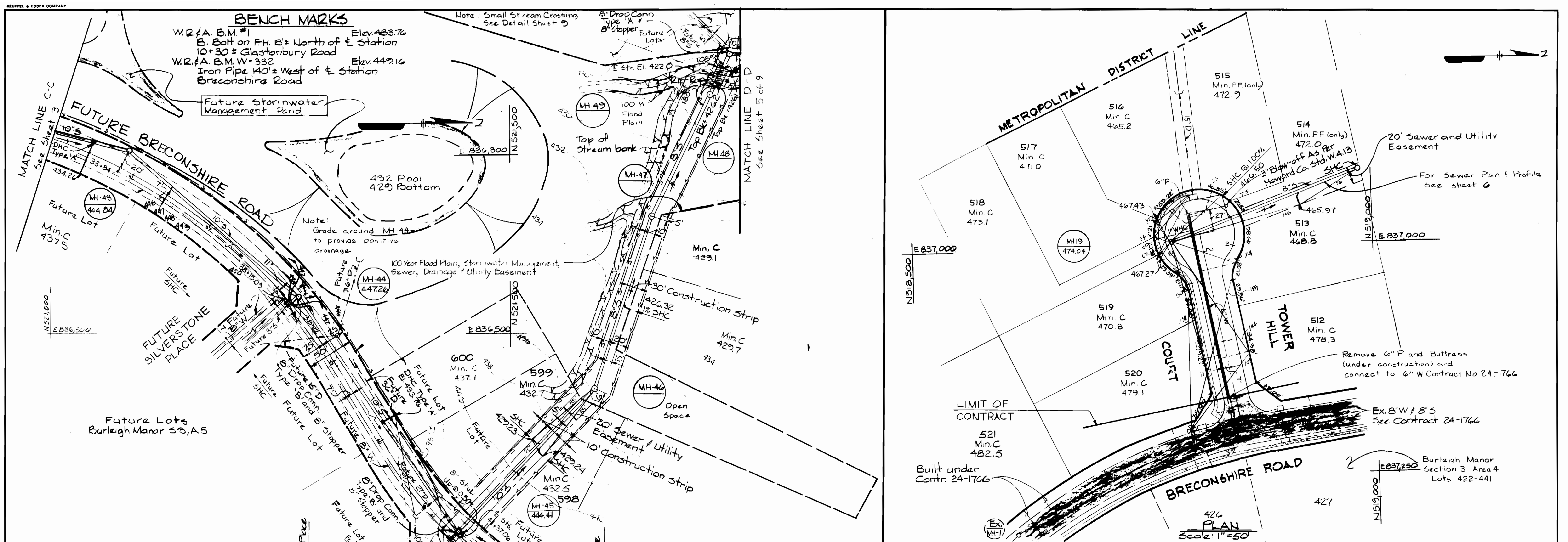


**PROFILES**  
 Scale: Hor. 1"=50'  
 Ver. 1"=5'

24-520-837.5

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director: James J. ... Chief - Bureau of Engineering: ... Chief - Bureau of Utilities: ...		WHITMAN, REQUARD AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND Engineer: Kenneth L. ...		DES: J.W.B. S.J.G. DRA: J.W.B. CHK: R.B.N. DATE: 1/26/88		PLAN & PROFILE OF WATER & SEWER MAINS BURLEIGH MANOR SECTION 3 AREA 4 LOTS 442-522 ELECTION DISTRICT NO. 2 CONTRACT NO. 24--1782-D		SCALE AS SHOWN SHEET 3 OF 9	
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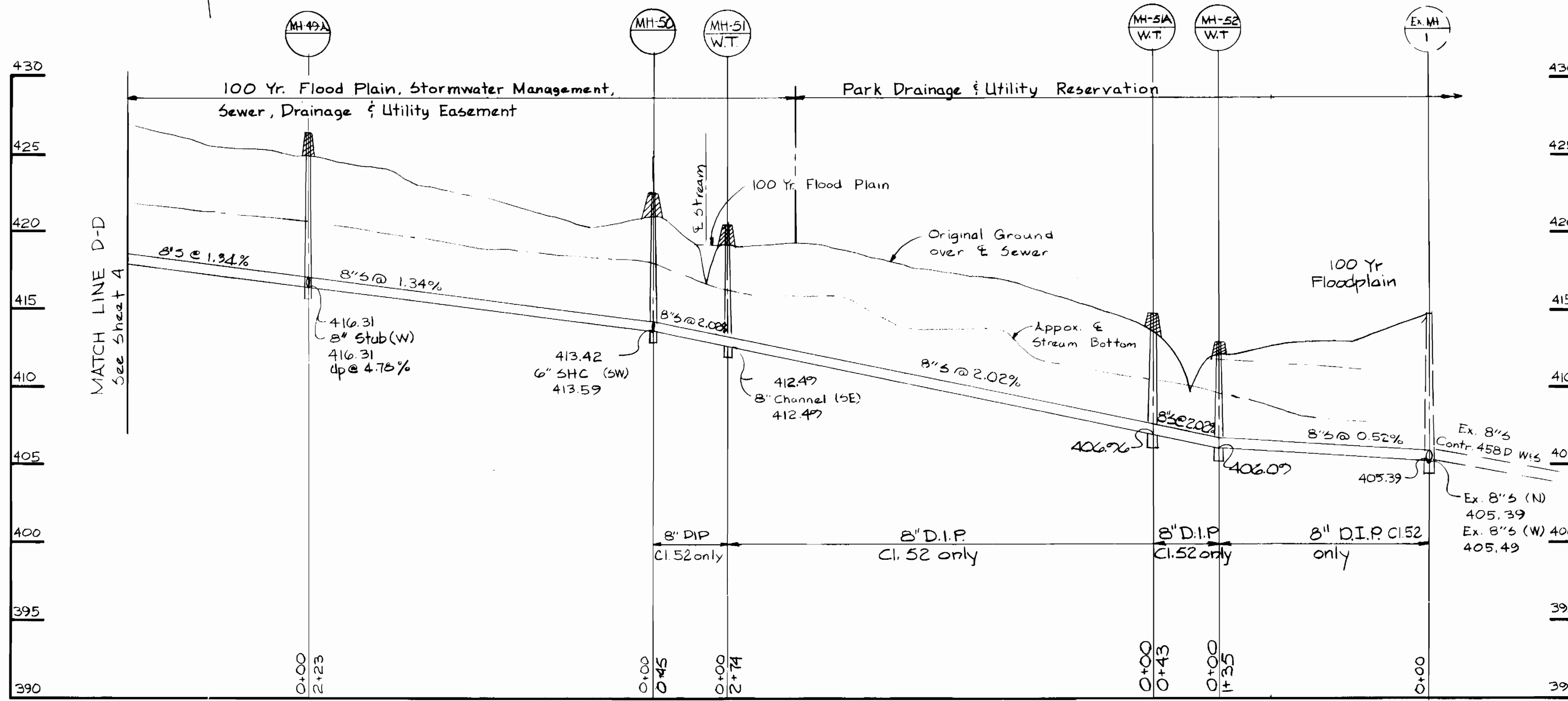
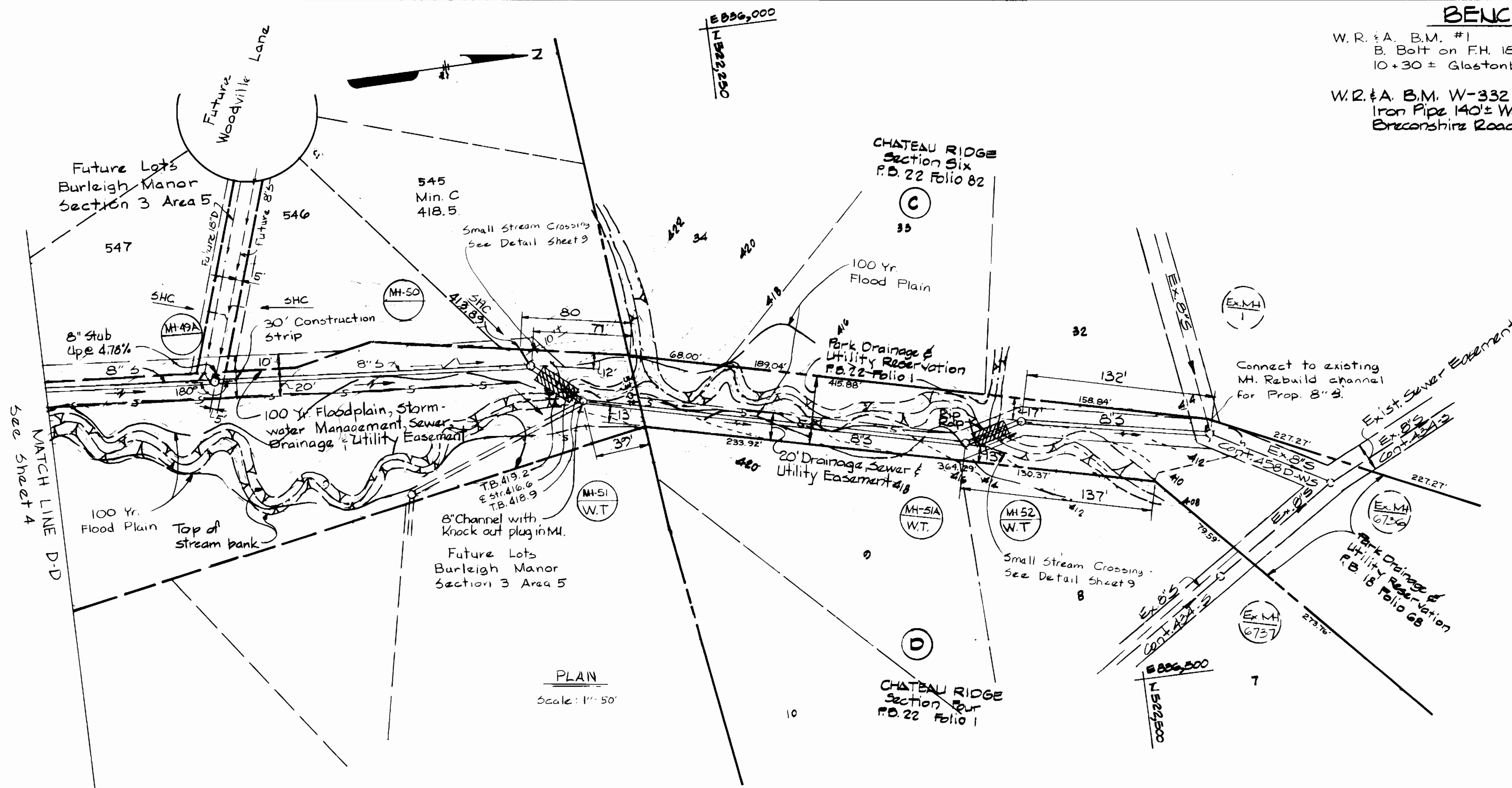
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Chief - Bureau of Utilities - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST PAUL ST BALTIMORE, MARYLAND		DES. S.J.B. J.W.B. CH. J.E.M. CHK. R.B.N. DATE: 1/24/88		PLAN & PROFILE OF WATER & SEWER MAINS 600' SCALE MAP NO. 24 BLOCK NO.		BURLEIGH MANOR SECTION 3 AREA 4 LOTS 442-444 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1782-D		SCALE AS SHOWN SHEET 4 OF 9
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**BENCH MARKS**

W.R. & A. B.M. #1 El. 483.76  
 B. Bolt on FH 18'± North of Station  
 10+30± Glastonbury Road

W.R. & A. B.M. W-332 El. 449.16  
 Iron Pipe 140'± West of E. Sta. 29+35±  
 Breconshire Road



**PROFILE**  
 Scale: Hor.: 1"=50'  
 Ver.: 1"=5'

24, 521-837.5  
 24, 522-837.5

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief - Bureau of Engineering - DATE  
 Chief - Bureau of Utilities - DATE  
 Chief - Land Development Division - DATE

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST PAUL ST  
 BALTIMORE, MARYLAND

DES. J.W.B.  
 DRN. J.E.M.  
 CHK. R.B.N.  
 DATE 1/26/88

DES. J.W.B.			
DRN. J.E.M.			
CHK. R.B.N.			
DATE 1/26/88	J.B. 1	Revised Plan and Profile	11/22/88
BY NO.	REVISION	DATE	

**PLAN & PROFILE OF  
 WATER & SEWER MAINS**

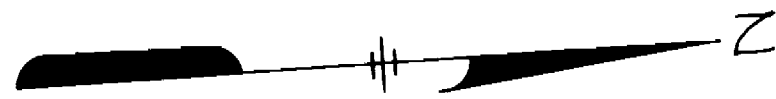
600' SCALE MAP NO. 24 BLOCK NO.

BURLEIGH MANOR  
 SECTION 3 AREA 4  
 LOTS 442-522  
 ELECTION DISTRICT NO.2  
 CONTRACT NO. 24-1782-D

SCALE AS SHOWN  
 SHEET 5 OF 9

**BENCH MARKS**

V.R. & A. B.M. #1 Elev. 483.76  
 0. Bolt on F.H. 18" North of Station  
 10+30+1 Glastonbury Road  
 V.R. & A. B.M. #2 Elev. 449.16  
 Iron Pipe 140' West of Sta. 29+35+1  
 Breconshire Road

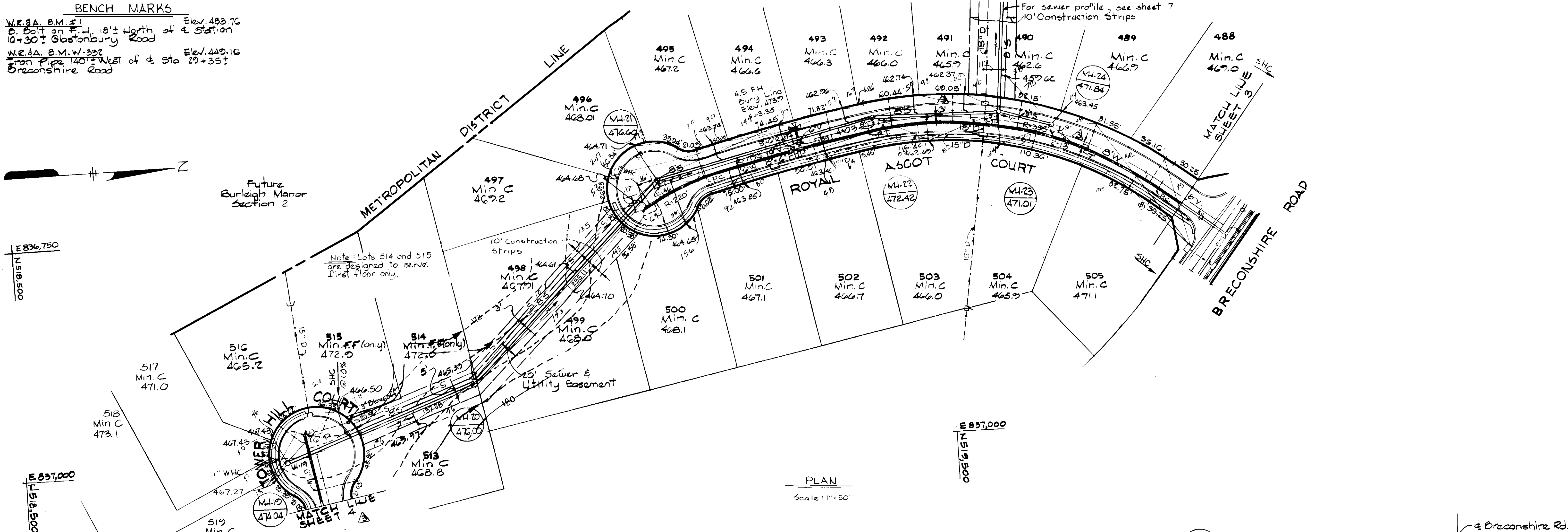


E 836,750  
 N 518,500

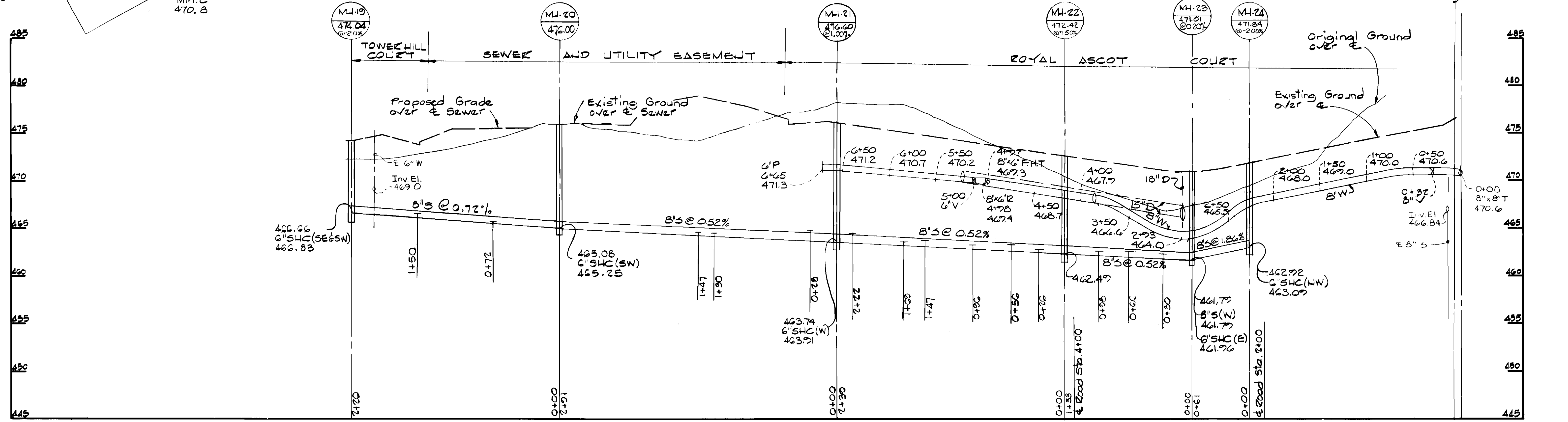
E 837,000  
 N 518,500

Future  
 Burleigh Manor  
 Section 2

Note: Lots 514 and 515  
 are designed to serve  
 first floor only.



PLAN  
 Scale: 1" = 50'



Scale: Hor. 1" = 50'  
 Vert. 1" = 5'

24, 518-837.5  
 24, 519-837.5

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James P. ...*  
 DIRECTOR OF PUBLIC WORKS - DATE

*Michael A. ...*  
 CHIEF - BUREAU OF UTILITIES - DATE

*Michael J. ...*  
 CHIEF - BUREAU OF ENGINEERING - DATE

*James M. ...*  
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS

2315 ST PAUL ST  
 BALTIMORE, MARYLAND

*Hennrich C. ...*

DES	S.J.G.				
CHK	E.B.J.	J.B. 4	Revised Profile	10-8-88	
		J.B. 3	Revised Plan Elevations / Profile	8-8-88	
		S.J.G. 2	As per Bur. of Engineering Comment 4	6/2/88	
		S.J.G. 1	As per Bureau of Engineering Comments 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	1/24/88	
DATE	1/24/88	BY	NO.	REVISION	DATE

PLAN & PROFILE OF  
 WATER & SEWER MAINS

600' SCALE MAP NO. 24 BLOCK NO.

BURLEIGH MANOR  
 SECTION 3 AREA 4  
 LOTS 442 - 522  
 ELECTION DISTRICT NO. 2  
 CONTRACT NO. 24-1782-D

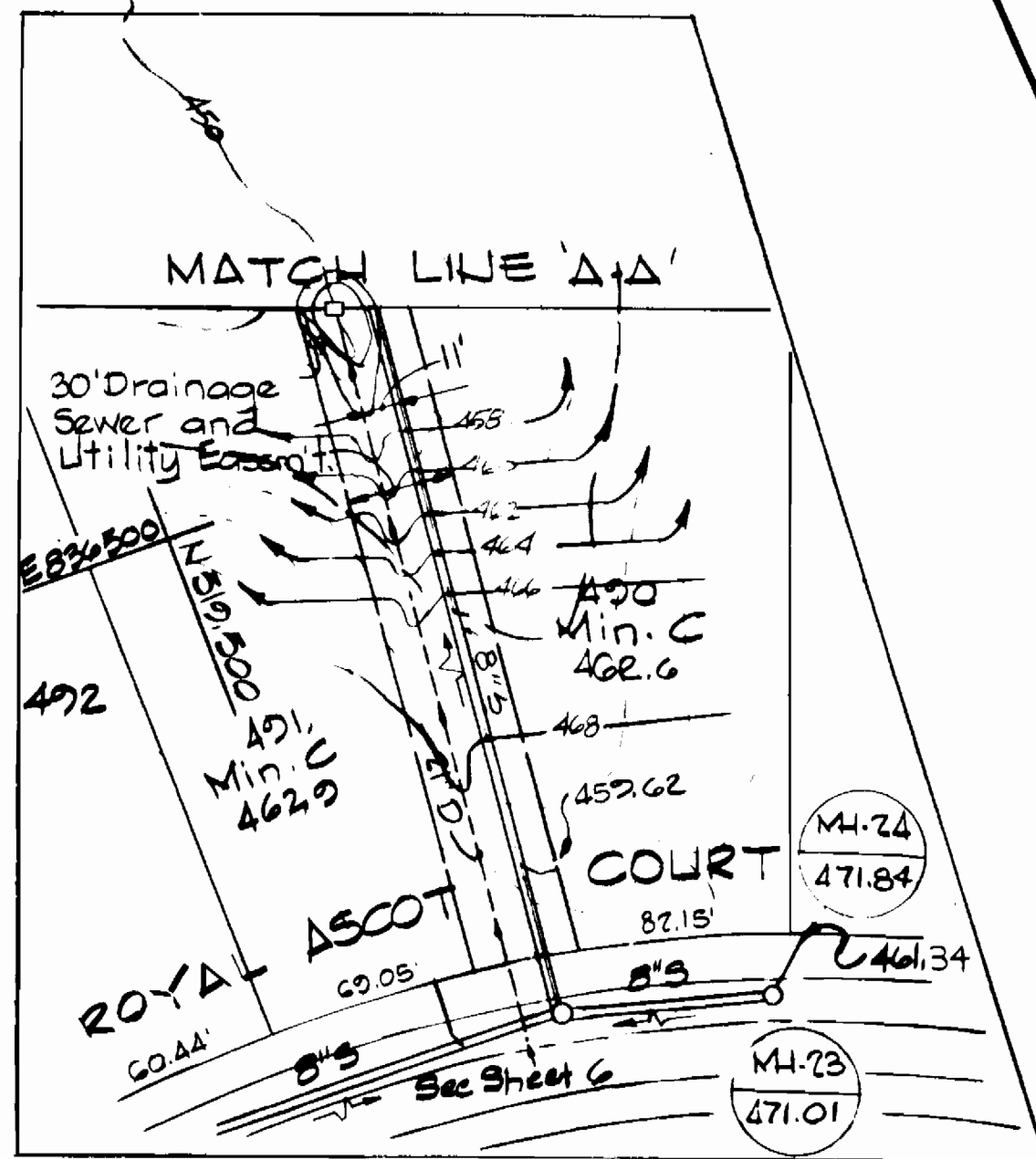
SCALE  
 AS  
 SHOWN

SHEET  
 6 OF 9

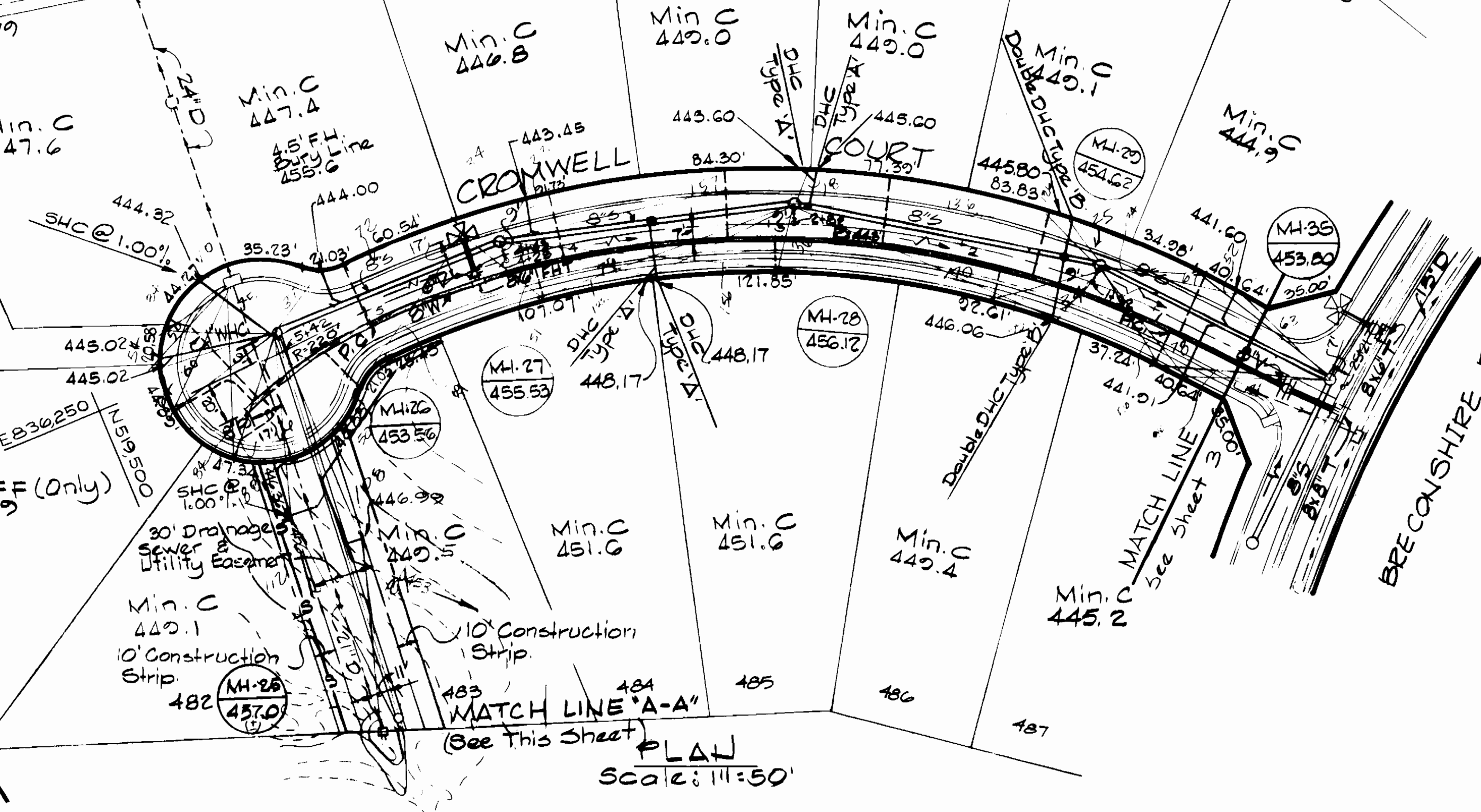


Note:  
Lots 480 & 481 are designed  
to serve first floor only.

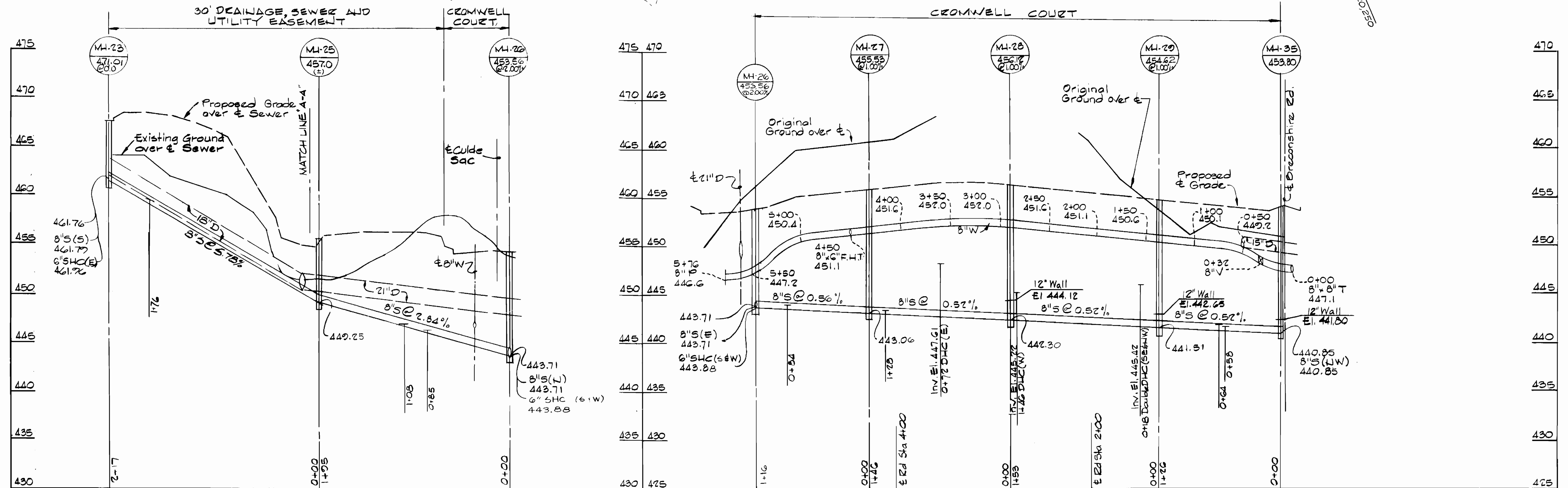
Open Space  
Lot # 522



METROPOLITAN DISTRICT LINE



**BENCH MARKS**  
W.R.&A. B.M. #1 EL. 483.76  
B. Bolt on F.H. 18± North of E. Station  
10+30± Glastonbury Road.  
W.R.&A. B.M. W-332 EL. 449.16  
Iron Pipe 140'± West of E. Sta. 29+35±  
Breachshire Rd.

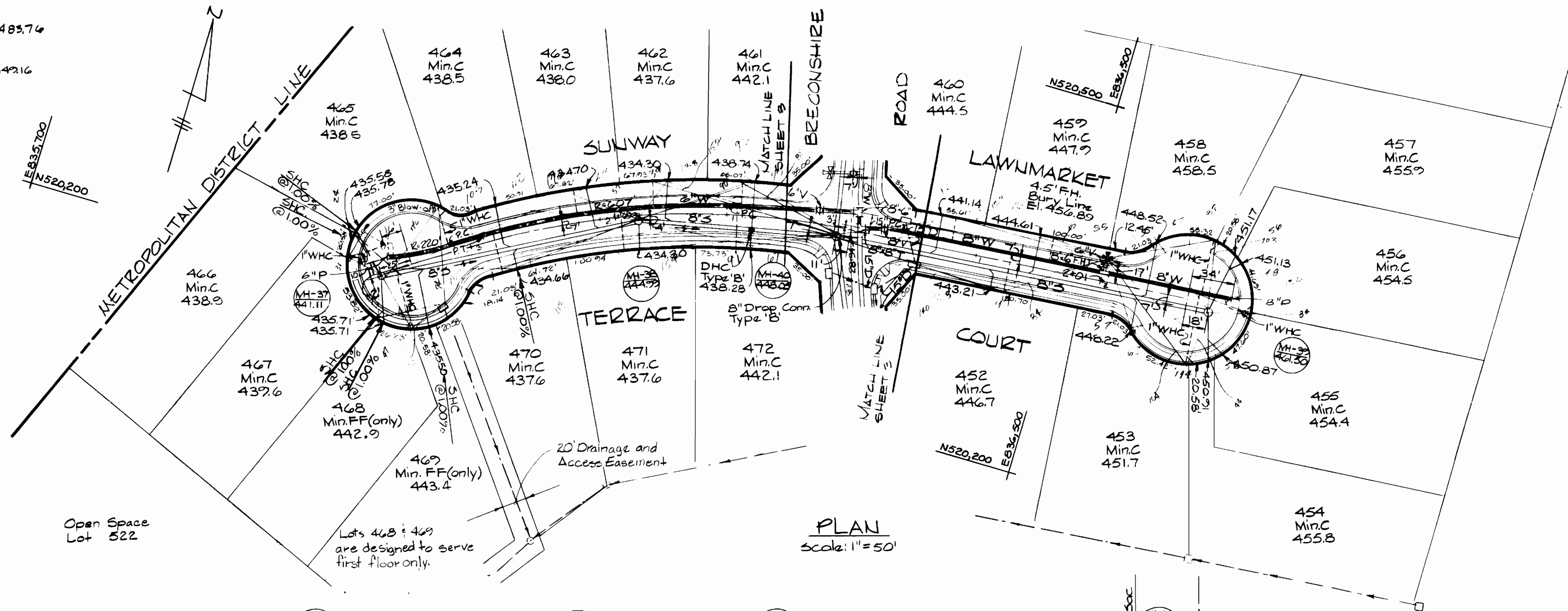


**PROFILES**  
Scale: Hor = 1" = 50'  
Vert = 1" = 5'

24,520 - 837.5  
24,519 - 837.5

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director: <i>[Signature]</i> 6/18/88 Chief - Bureau of Public Works - DATE Chief - Bureau of Utilities - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND Chief - Bureau of Engineering - DATE Chief - Land Development Division - DATE		DES. 5/16 P. A.S. CHK. RBN DATE 1/24/88		PLAN & PROFILE OF WATER & SEWER MAINS J.B. 2 Revised Profile 10-18-88 S.J.G. 1 Bureau of Engineering comments #14'15' 3/28/88 BY NO. REVISION DATE		BURLEIGH MANOR SECTION 3 AREA 4 LOTS 442 - 522 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1782-D		SCALE AS SHOWN SHEET 7 OF 9
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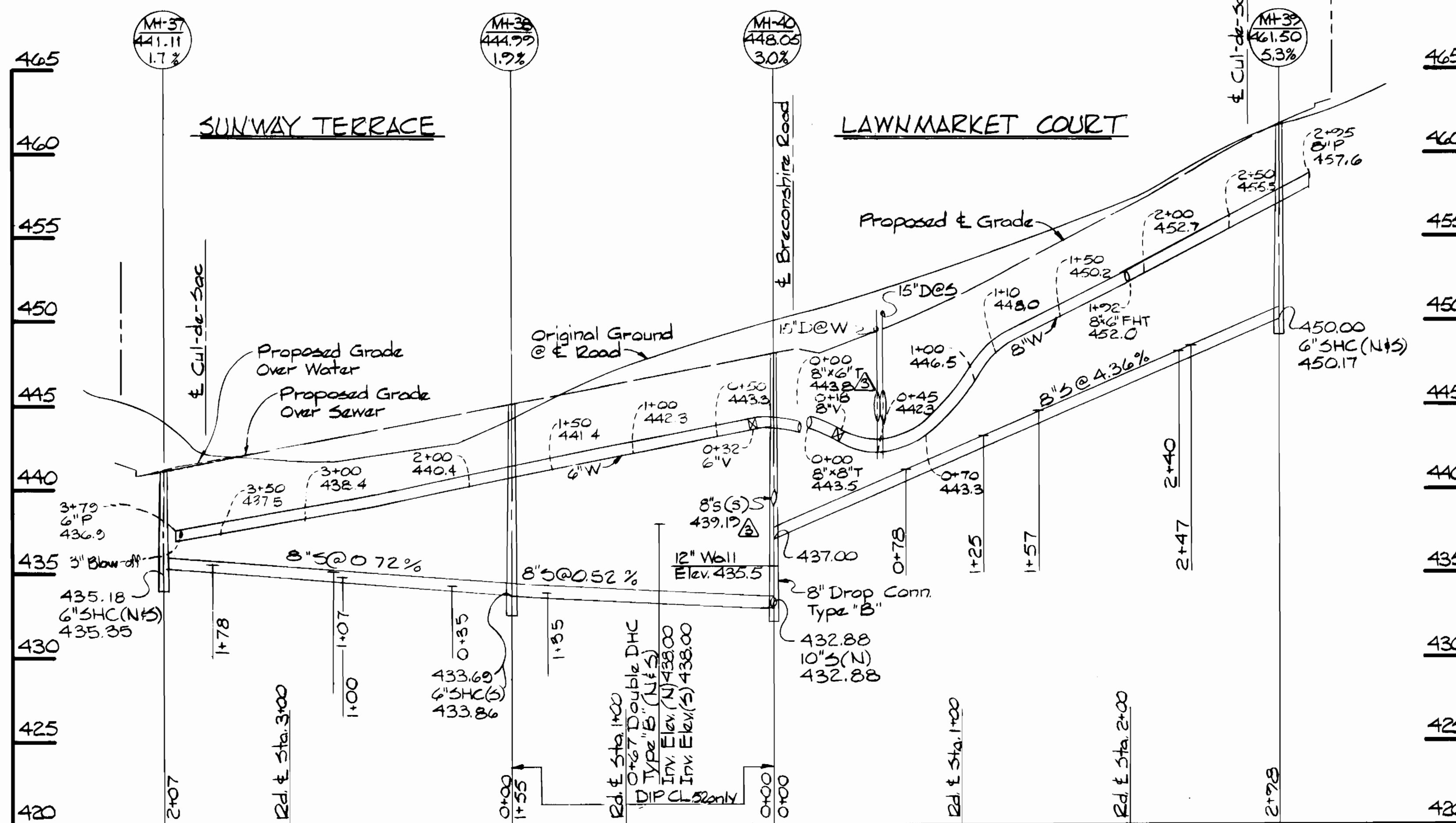
**BENCH MARKS**  
 W.R.C.A. B.M. #1  
 5" Bolt on F.H. 10'± North of &  
 Sta. 10+30± Glastonbury Road  
 E.L. 485.76  
 W.R.C.A. B.M. W-332  
 Iron Pipe 140'± West of & Sta. 27+35±  
 Breconshire Road  
 E.L. 442.16



Future Burligh Manor  
 Section 2 Rural Zoning

Open Space  
 Lot 522

**PLAN**  
 Scale: 1" = 50'



**PROFILE**  
 Scale: Hor: 1" = 50'  
 Ver: 1" = 5'

24-520-837.5  
 24-520-836

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief - Bureau of Engineering - DATE  
 Chief - Bureau of Utilities - DATE  
 Chief - Land Development Division - DATE

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST PAUL ST  
 BALTIMORE, MARYLAND

DES. J.W.B.					
CHK. J.E.B.					
CHK. R.B.N.	J.B.	3	Revised Elevations on Profile	8-18-88	
	S.J.G.	2	Bureau of Engineering Comment	3-2	6-12-88
	S.J.G.	1	Bureau of Engineering Comments	6-19	3-28-88
DATE 1-26-88	BY NO.		REVISION	DATE	

**PLAN & PROFILE OF  
 WATER & SEWER MAINS**

600' SCALE MAP NO. 24 BLOCK NO.

BURLEIGH MANOR  
 SECTION 3 AREA 4  
 LOTS 442-522  
 ELECTION DISTRICT NO. 2  
 CONTRACT NO. 24-1782-D

SCALE  
 AS  
 SHOWN  
 SHEET  
 8 OF 9



### STRAW BALE DIKE

**STANDARD SYMBOL**  
SBO-1

**CONSTRUCTION SPECIFICATIONS**

- Bales shall be placed at the toe of a slope or on the contour and in a row with bales tightly abutting the adjacent bales.
- Each bale shall be pressed in the soil a minimum of (4) inches, and placed so the bindings are horizontal.
- Bales shall be securely anchored in place by either two stakes or re-bars driven through the bale. The first stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent and repair/replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow of drainage.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

STRAW BALE DIKE

STANDARD DRAWING  
SBO-1

### Dewatering Basins

**WATER RESOURCES ADMINISTRATION**

Dewatering Basins

Approved On: *[Signature]*  
Chief Waterway Permits

WPD 1.1

### EARTH DIKE

**CONSTRUCTION SPECIFICATIONS**

- All dikes shall be compacted by earth-compacting equipment.
- All dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
- Field location should be adjusted as needed to utilize a stabilized safe outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Outlet shall be covered by a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
- Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel, as per the chart below.

TYPE OF CHANNEL	CHANNEL WIDTH	TYPE 1	TYPE 2
1	1-3.00	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.00	SEED AND STRAW MULCH	SEED AND STRAW MULCH, EXCEEDED SOIL 2" STONE
3	5.1-8.00	SEED WITH LIME OR SOIL 2" STONE	LINED RIP-RAP 4-8"
4	8.1-200	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.  
B. Rip-rap to be 4-8 inches in a layer at least 6 inches thickness and be pressed into the soil.  
C. Approved equivalents can be substituted for any of the above materials.  
7. Periodic inspection and required maintenance must be provided after each rain event.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

EARTH DIKE

STANDARD DRAWING  
ED-1

### RIP-RAP DETAIL

**Notes:**

- Erosion Control Fabric shall be Poly-Filter-X as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 West 66th Street, Cincinnati, Ohio. Laurel Erosion Control Cloth as manufactured by Laurel Plastics Inc., Madison, Maine or any rounded equal.
- Rip-Rap shall be placed on each side of stream or as shown. Any disturbance to stream banks beyond these limits shall be protected with Rip-Rap at Contractor's expense.
- Gabions may be used in lieu of Rip-Rap.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

EARTH DIKE

STANDARD DRAWING  
ED-1

### SILT FENCE

**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with wire staples every 24" at top and mid section.
- When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

SILT FENCE

STANDARD DRAWING  
SF-1

### STABILIZED CONSTRUCTION ENTRANCE

**CONSTRUCTION SPECIFICATIONS**

- Stone Size - Use 2" stone, or recycled or recycled concrete equivalent.
- Length - As required, 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.
- 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.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- 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 established with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
College Park, Md.

STABILIZED CONSTRUCTION ENTRANCE

Standard Drawing  
SCE-1

### CONSTRUCTION SEQUENCE SEDIMENT CONTROL PROCEDURES

(FOR AREAS NOT PROTECTED BY ROAD CONSTRUCTION - SEDIMENT CONTROL DEVICES)

- Obtain Sediment Control Permit.
- Construct continuous sediment barrier for all Disturbed Areas\* not protected by sediment traps.
- Clear, grub and strip as required. Protect stream from erosion of stored top soil, separate top soil from subsoil.
- Construct pipelines.
- All excavated material shall be stockpiled on high side of trench.
- Restore erosion control structures disturbed by sewer and water construction.
- Stabilize disturbed area as construction progresses with temporary seeding and mulching (or permanent restoration).
- Complete permanent restoration.
- All sediment control devices shall remain in service until removal is approved by the SCS inspector.
- Restoration (temporary or permanent) of an area between manholes or 400' watermain section shall follow within one week of pipe laying in this area.

\* Disturbed Areas shall be restricted to 20' easements.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

STABILIZED CONSTRUCTION ENTRANCE

Standard Drawing  
SCE-1

### TEMPORARY ACCESS CULVERT

**Construction Specifications**

- Restrictions** - No construction or removal of a temporary access culvert will be permitted between October 1 through April 30 for all Class III and Class IV Trout Waters or between March 15 through June 15 for non-trout waterways.
- Culvert Strength** - All culverts shall be strong enough to support their cross sectional area under maximum expected loads.
- Culvert Size** - The size of the culvert pipe shall be the largest pipe diameter that will fit into the existing channel without major excavation of the waterway channel or without major approach fills. If a channel width exceeds 3 feet, additional pipes may be used until the cross sectional area of the pipes is greater than 60 percent of the cross sectional area of the existing channel. The minimum size culvert that may be used is a 12" diameter pipe.
- Culvert Length** - The culvert(s) shall extend a minimum of one foot beyond the upstream and downstream toe of the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in length.
- Filter Cloth** - Filter cloth shall be placed on the streambed and streambanks prior to placement of the pipe culvert(s) and aggregate. The filter cloth shall cover the streambed and extend a minimum six inches and a maximum one foot beyond the end of the culvert and bedding material. Filter cloth reduces settlement and improves crossing stability.
- Culvert Placement** - The invert elevation of the culvert shall be installed on the natural streambed grade to minimize interference with fish migration (free passage of fish).
- Culvert Protection** - The culvert(s) shall be covered with a minimum of one foot of aggregate. If multiple culverts are used they shall be separated by at least 12" of compacted aggregate fill. At a minimum, the bedding and fill material used in the construction of the temporary access culvert crossings shall conform with the aggregate requirements cited in Section I.R. 1. above.
- Stabilization** - All areas disturbed during culvert installation shall be stabilized within 14 calendar days of the disturbance in accordance with the Standard for "Critical Area Stabilization With Permanent Seeding."

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

Culvert Pipe with Access Road

Approved On: *[Signature]*  
Chief Waterway Permits

WPD 2.1

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS  
2315 ST. PAUL ST  
BALTIMORE, MARYLAND

DES. J.W.B.  
R.L.P.  
CHK. R.B.N.  
DATE 1/26/88

BY NO. \_\_\_\_\_  
REVISION \_\_\_\_\_  
DATE \_\_\_\_\_

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

BURLEIGH MANOR  
SECTION 3 AREA 4  
LOTS 442-522  
ELECTION DISTRICT NO. 2  
CONTRACT NO. 24-1782-D

SEDIMENT CONTROL DETAILS

SCALE AS SHOWN

SHEET 9 OF 9

January 26, 1988