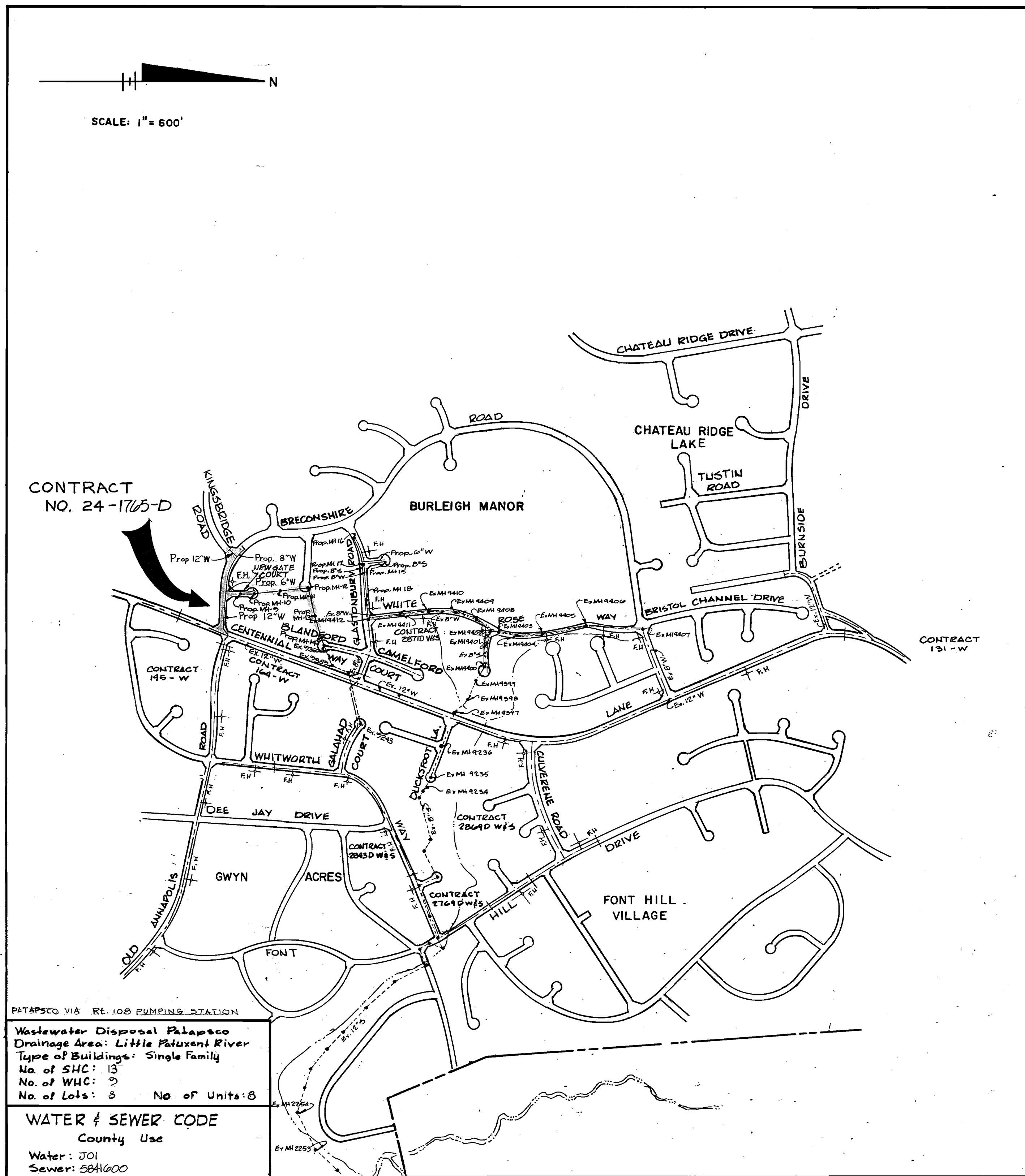


- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL 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 850-4620
 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/C&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
12" Water L.F.	620	620	DIP / McWane
8" Water L.F.	30	26	DIP / McWane
6" Water L.F.	280	275	DIP / McWane
Fire Hydrants Ea.	1	1	Meuller
12" Valve Ea.	1	1	Meuller
8" Valve Ea.	1	1	Meuller
6" V(Except F.H.)	1	1	Meuller
12"x8" Reducer Ea.	1	1	Meuller
3/4" WHC L.F.	200	200	Copper/Howell
1" WHC LF	60	60	Copper/Howell
8" Sewer LF	940	940	PVC / J-M
Sewer Manholes	6	6	Precast / Atlantic
6" SHC LF	270	270	PVC / J-M
3" Blow off	1	1	DIP / Griffin



CONTRACT NO. 24-1765-D

BURLEIGH MANOR

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

[Signature] 5-18-88
 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

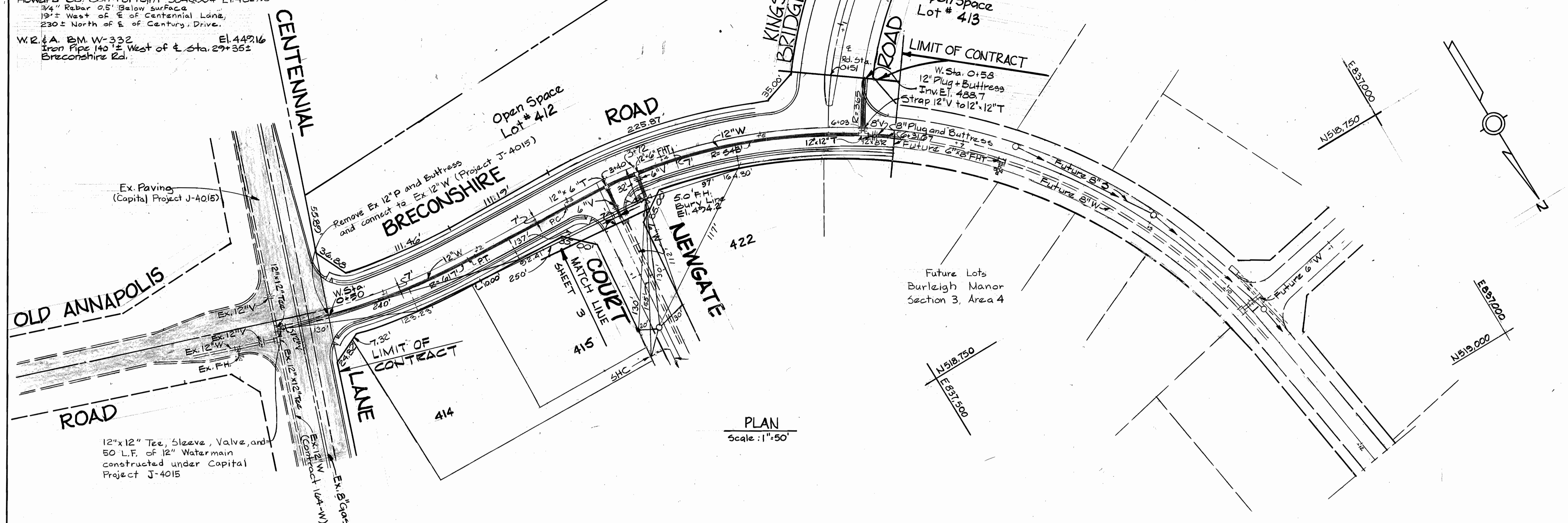
[Signature] 5-18-88
 HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Section 29 of the Standard Specifications and Road Construction Drawings F 88-97

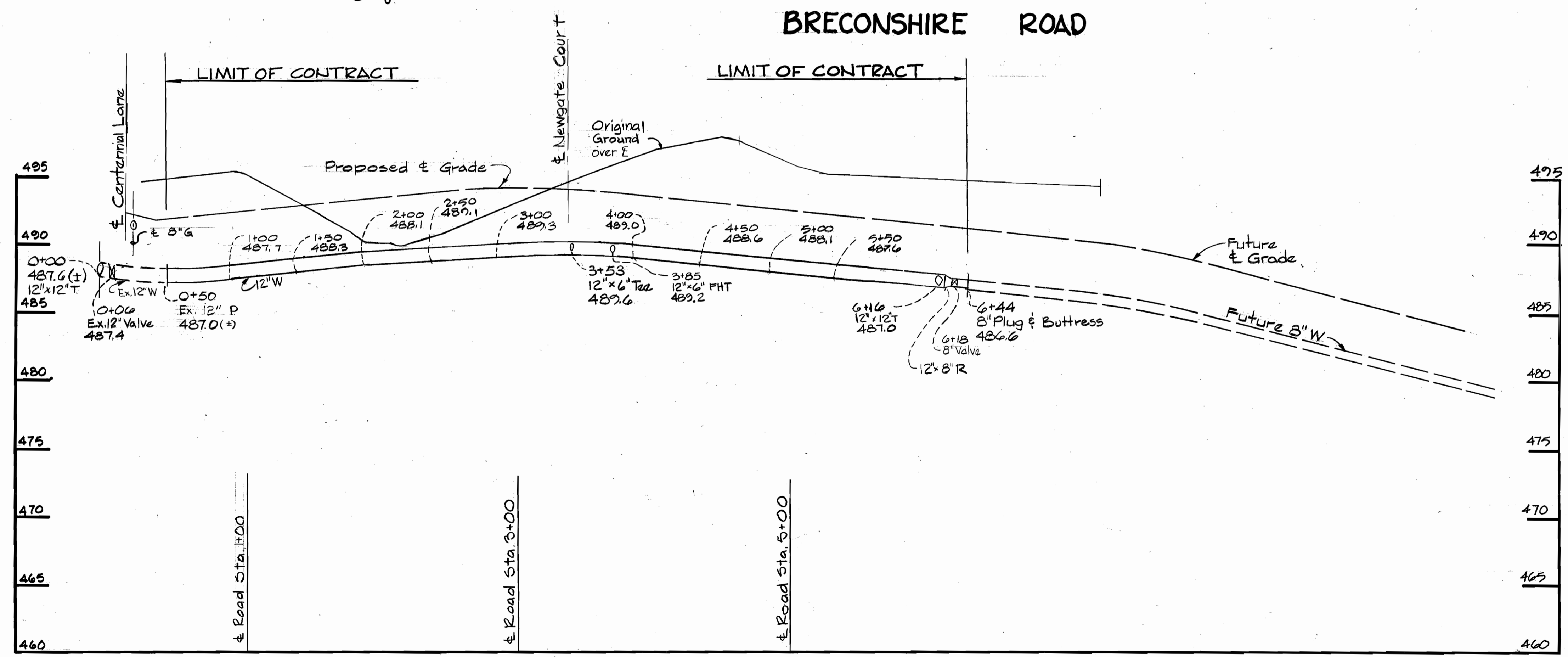
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS - DATE <i>[Signature]</i> 5/26/88 CHIEF - BUREAU OF UTILITIES - DATE <i>[Signature]</i> 5/27/88	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND CHIEF - LAND DEVELOPMENT DIVISION - DATE <i>[Signature]</i> 5/24/88	DES: S.J.G. DRW: R.L.P. CHK: S.J. DATE:	VICINITY MAP AND GENERAL NOTES BURLEIGH MANOR SECTION 3 AREA 3 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1765-D SCALE 1" = 600' SHEET 1 OF 3	AS-BUILT November 13, 1987
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BENCH MARKS

Howard Co. Control Point #3040004 El. 482.78
 3/4" Rebar 0.5' Below surface
 19'± West of E of Centennial Lane,
 230± North of E of Century Drive.
 W.R. & A. B.M. W-332 El. 449.16
 Iron Pipe 140'± West of E. Sta. 29+35±
 Breconshire Rd.



PLAN
 Scale: 1"=50'



PROFILE
 Scale: Horizontal 1"=50'
 Vertical 1"=5'

24,518-237.5
 24,518-237

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James H. Lewis 5/24/88
 DIRECTOR OF PUBLIC WORKS - DATE

William E. Raley 5/24/88
 CHIEF - BUREAU OF ENGINEERING - DATE

Robert H. Bauriga 5-23-88
 CHIEF - BUREAU OF UTILITIES - DATE

Small 5/24/88
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS

2315 ST. PAUL ST.
 BALTIMORE, MARYLAND



DES: S.J.G.			
DRN: D.M.R.			
CHK: K.B.N.			
DATE:			
BY:	NO.	REVISION	DATE
S.J.G.	3	Moved F.H. to avoid sidewalk	1/30/88
S.J.G.	2	Bureau of Engineering Comment #4	1/30/88
S.J.G.	1	Bureau of Engineering Comment #1	1/30/88

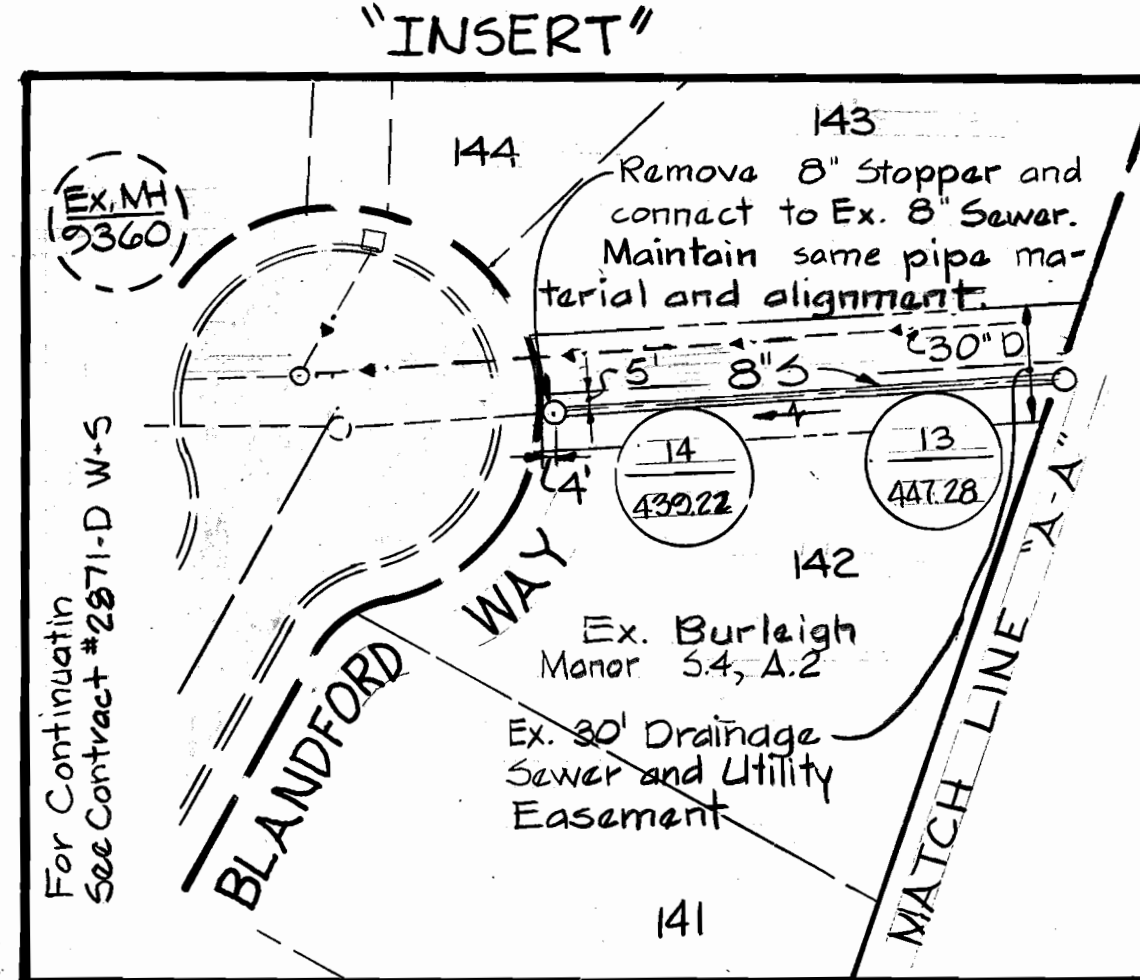
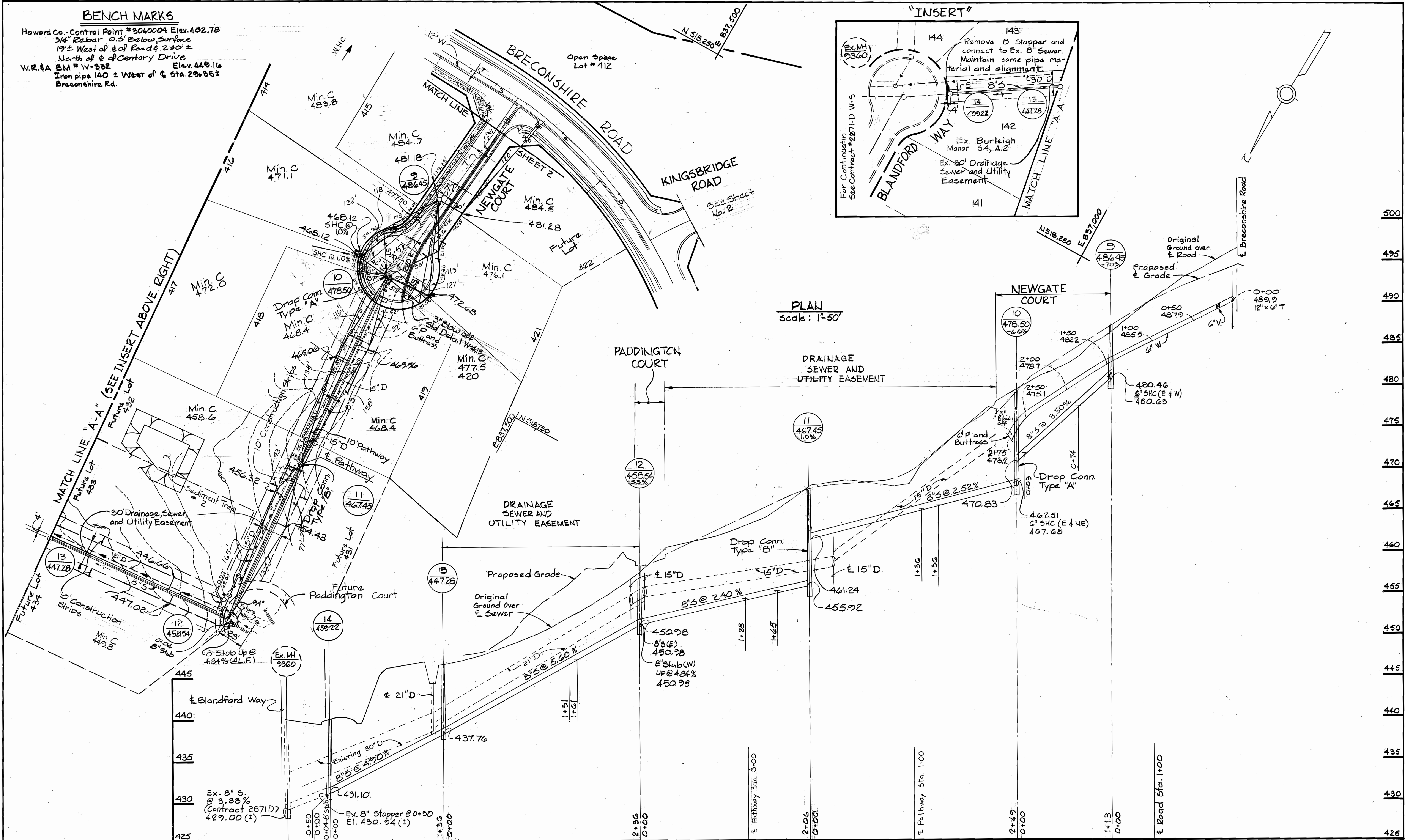
PLAN & PROFILE OF
 WATER & SEWER MAINS

BURLEIGH MANOR
 SECTION 3 AREA 3
 ELECTION DISTRICT NO. 2
 CONTRACT NO. 24-1765-D

SCALE AS SHOWN
 SHEET 2 OF 3

BENCH MARKS

Howard Co. Control Point #3040004 Elev. 482.78
 3/4" Rebar 0.5' Below Surface
 19'± West of E of Road & 230'±
 North of E of Century Drive
 W.R. & A. BM # W-382 Elev. 449.16
 Iron pipe 140'± West of E Sta. 20+35±
 Breconshire Rd.



PLAN
 Scale: 1"=50'

PROFILE Scale: Horizontal 1"=50'
 Vertical 1"=5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

WHITMAN, REQUARD
 AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND 21218



DES: S.J.G.				
DR: M.B.				
CHK: S.J.	S.J.G. 3	Provided 8" Stub to MH-12 for Cont-24-1766	1/20/88	
	S.J.G. 2	Bureau of Engineering Comment #3	1/29/88	
	S.J.G. 1	Bureau of Engineering Comment #2	1/29/88	
DATE:	BY NO.	REVISION	DATE	

PLAN & PROFILE OF
 WATER & SEWER MAINS

BURLEIGH MANOR
 SECTION 3 AREA 3
 ELECTION DISTRICT NO. 2
 CONTRACT NO. 24-1765-D

SCALE
 AS SHOWN
 SHEET
 3 OF 3