

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
8" Sewer L.F.	2,950	3,490.5	Charlotte Plastics
Sewer Manholes Ea.	11	11	Atlantic Precast
12" Water L.F.	3,670	3,674.7	Griffin Pipe Prod.
8" Water L.F.	440	461.10	Griffin Pipe Prod.
6" Water L.F.	320	342.4	Griffin Pipe Prod.
Fire Hydrants Ea.	11	11	M & H Valve Co.
Air Release Manhole Ea.	1	1	Atlantic Precast
12" Valve Ea.	3	3	M & H Valve Co.
8" Valve Ea.	8	9	M & H Valve Co.
6" Valve Ea.		11	M & H Valve Co.
12" x 6" Tee		11	
12" x 8" Tee		5	
12" x 8" Cross		2	
8" Cap		9	
12" Coupling		2	

- 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 USE 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 561-2585
 - BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
 - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9013
 - 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 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.

Wastewater Disposal: Savage
 Drainage Area: Dorsey Run
 Type of Buildings: M-1
 No. of SHC: 10
 No. of WHC: 8
 No. of Parcels: 8

WATER & SEWER CODE
 County Use:
 Water: E06
 Sewer: 3380000

CONTRACT NO. 24-1629-D
 COLUMBIA GATEWAY
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

 5-13-87
 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

 5/13/87
 HOWARD COUNTY DATE

Final Plat Reference F 87-125
 Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the Standard Specifications and Road Construction Drawings F 87-125

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

 5-14-87
 DIRECTOR OF PUBLIC WORKS - DATE

 5-15-87
 CHIEF - BUREAU OF UTILITIES - DATE

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

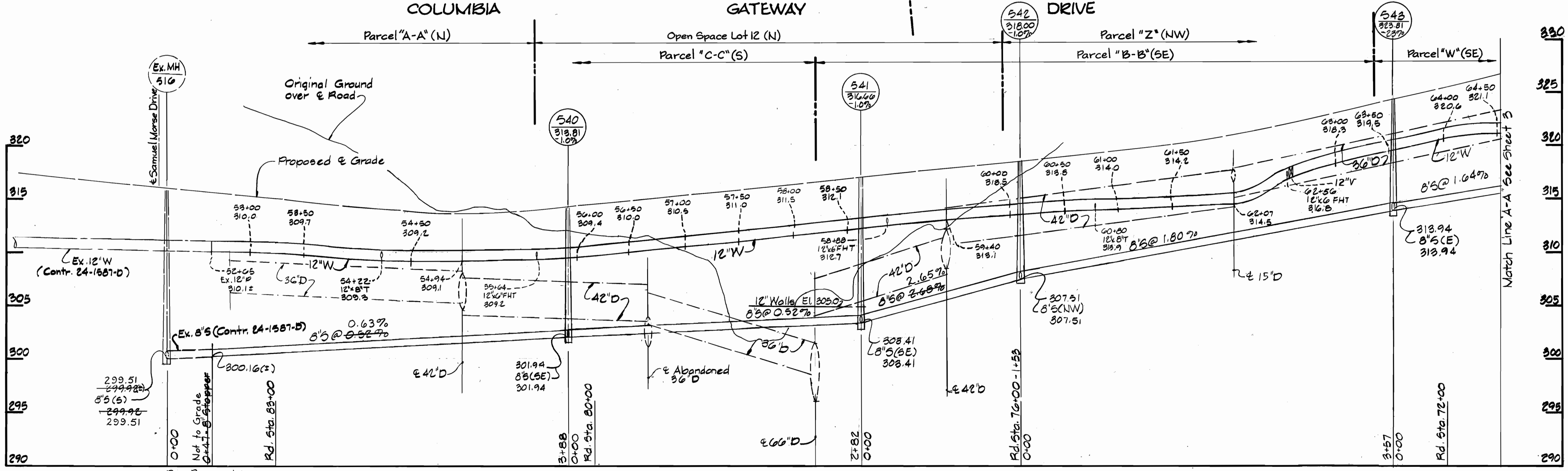
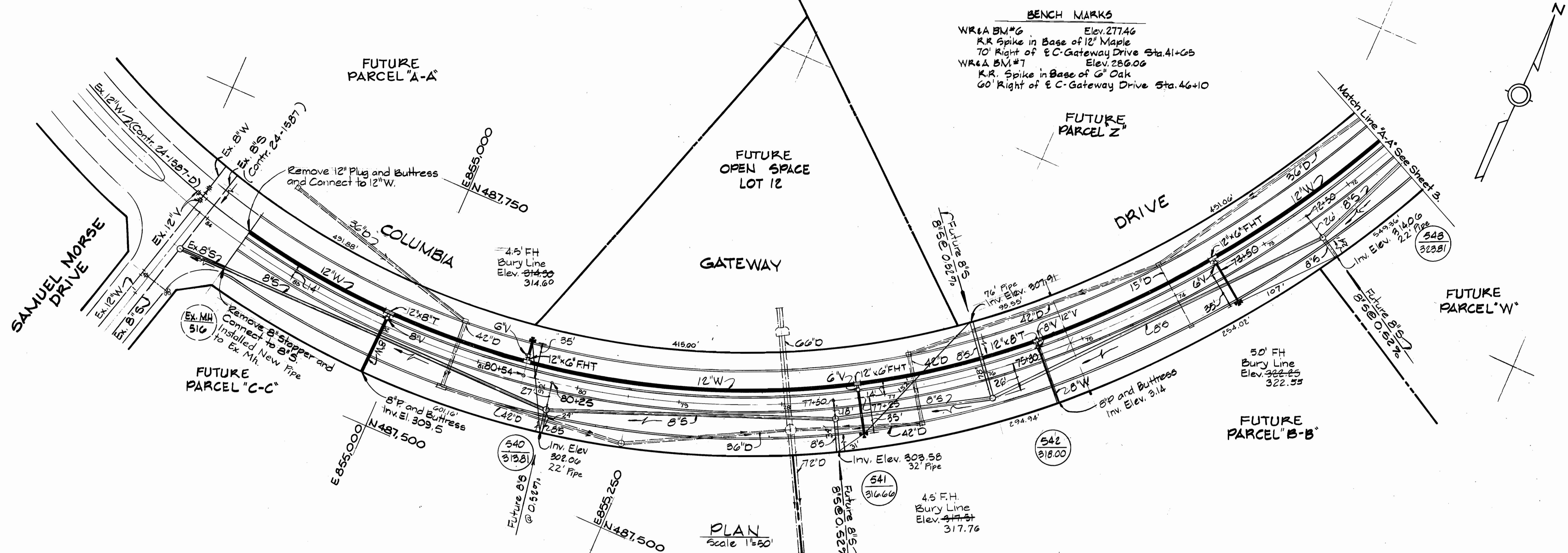
 5-18-87
 CHIEF - BUREAU OF ENGINEERING - DATE

 5-19-87
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

DES S.U.	BY	NO.	REVISION	DATE
Q.D.N.				
R.B.N.				

VICINITY MAP AND GENERAL NOTES

COLUMBIA GATEWAY
 COLUMBIA GATEWAY DRIVE
 AND PARCEL S AND T
 ELECTION DISTRICT NO. 6
 CONTRACT NO. 24-1629-D
 SCALE 1"=600'
 SHEET 1 OF 4
 March 31, 1987



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

John F. Neumann 5-14-87
 DIRECTOR OF PUBLIC WORKS - DATE

Michael J. Neumann 5-15-87
 CHIEF - BUREAU OF UTILITIES - DATE

Richard J. Neumann 5-18-87
 CHIEF - BUREAU OF ENGINEERING - DATE

Richard J. Neumann 5-18-87
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS

2315 ST. PAUL ST.
 BALTIMORE, MARYLAND

Whitman Requardt

DES: SJ			
DRN: KM			
CHK: RBN			
DATE:	BY:	NO.	REVISION

PLAN & PROFILE OF
 WATER & SEWER MAINS

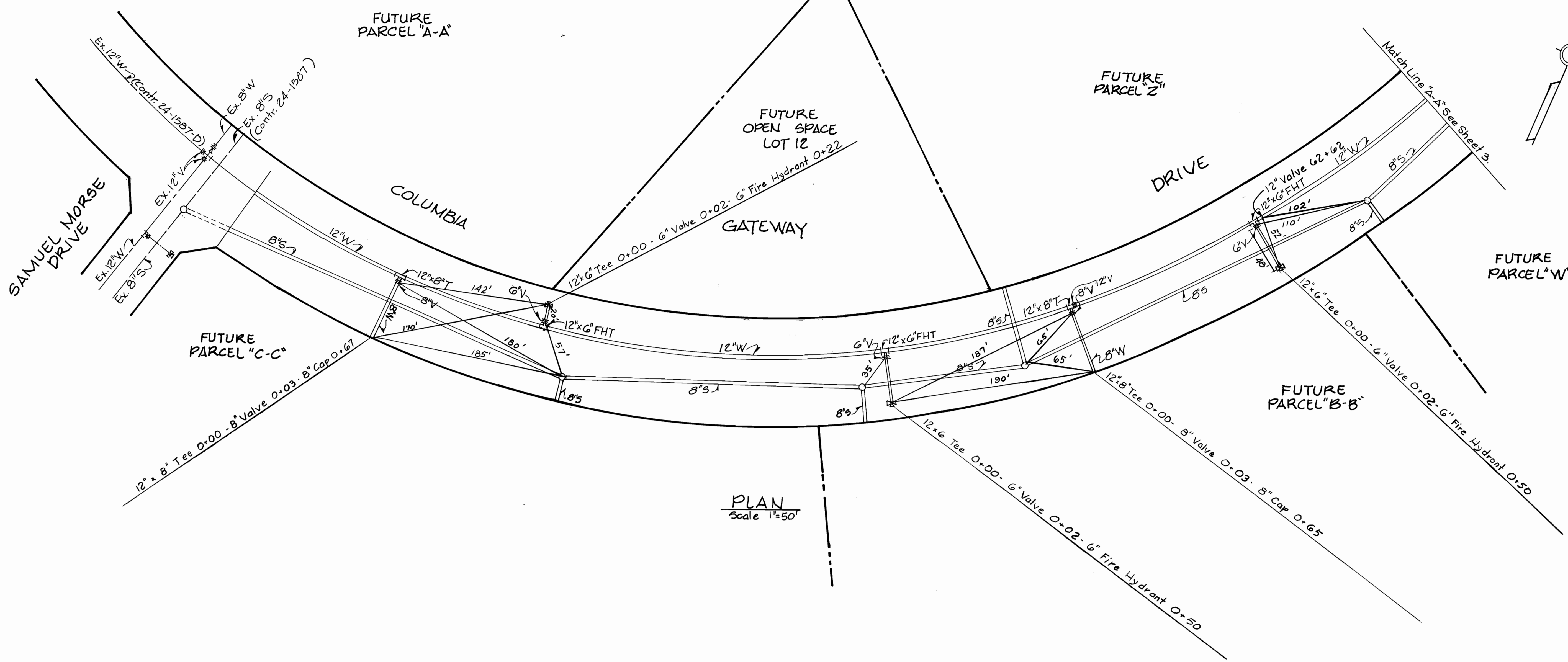
600' SCALE MAP NO. _____ BLOCK NO. _____

COLUMBIA GATEWAY
 COLUMBIA GATEWAY DRIVE
 AND PARCELS S AND T
 ELECTION DISTRICT NO. 6
 CONTRACT NO. 24-1629-D

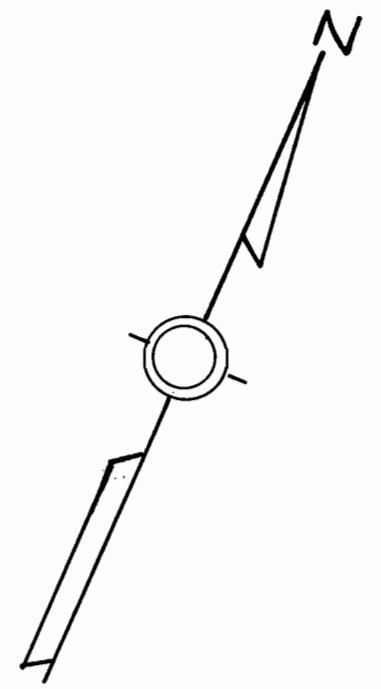
SCALE
 AS SHOWN

SHEET
 2 OF 4

March 31, 1987 AS-BUILT 9/23/88



PLAN
Scale 1"=50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____ CHIEF, BUREAU OF ENGINEERING _____ DATE _____

DES:				
DRN:				
CHK:				
DATE:	BY	NO.	REVISION	DATE

AS BUILT OF
WATER & SEWER MAINS

COLUMBIA GATEWAY DRIVE
AND PARCELS AND T

CONTRACT NO. 24-1629-D

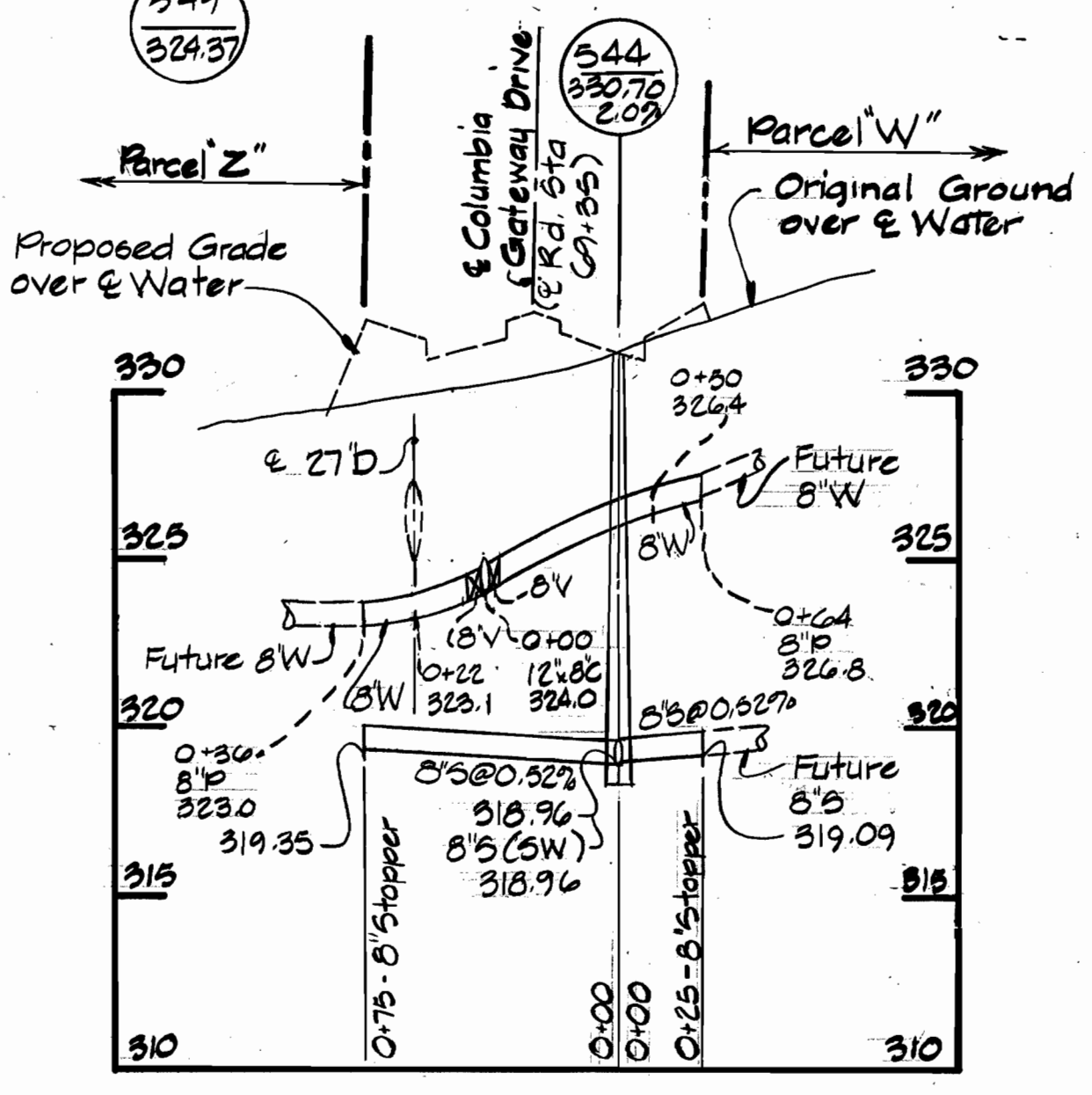
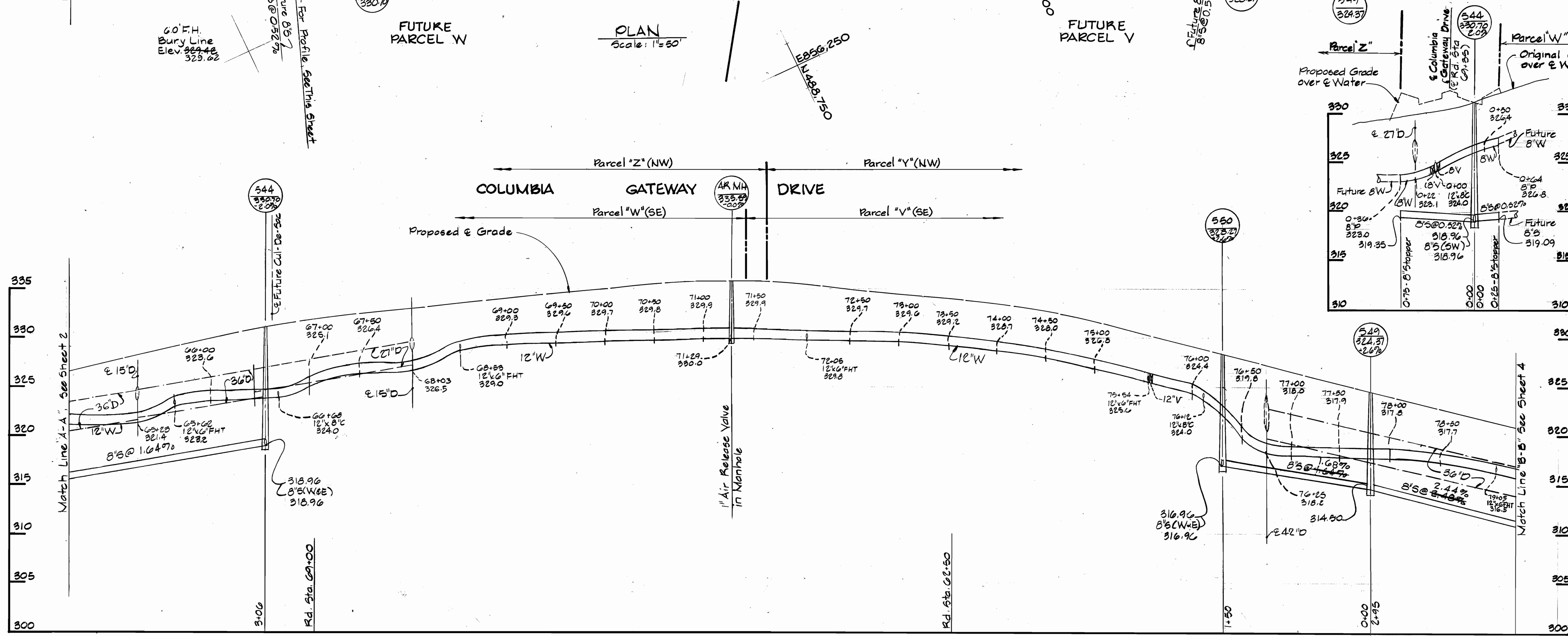
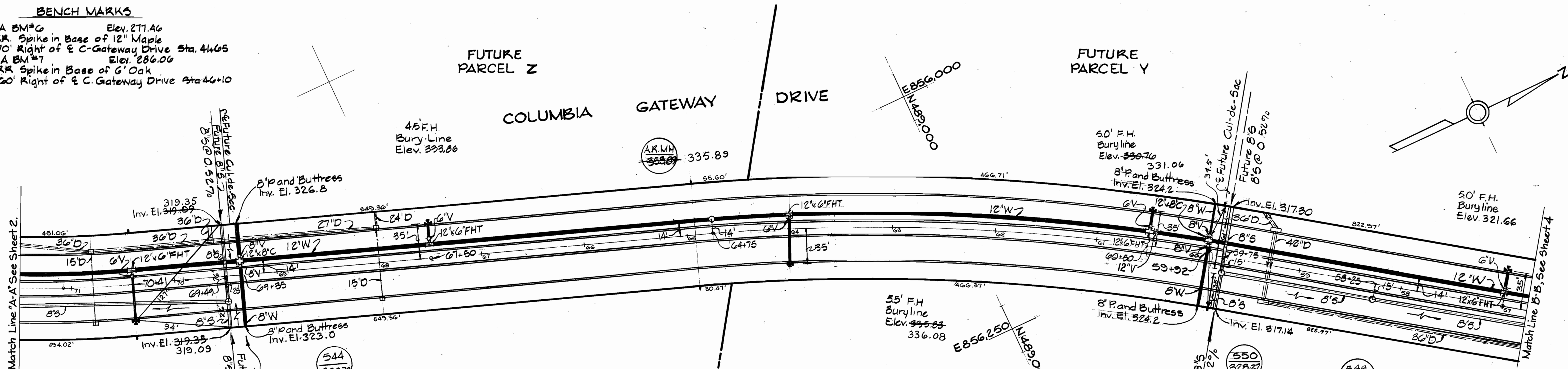
SCALE
AS
SHOWN

SHEET
2A OF 4

AS-BUILT 9/29/88

BENCH MARKS

WR&A BM#6 Elev. 271.46
 RR Spike in Base of 12" Maple
 70' Right of E-C Gateway Drive Sta. 4+65
 WR&A BM#7 Elev. 286.06
 RR Spike in Base of 6" Oak
 60' Right of E-C Gateway Drive Sta. 46+10



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works - DATE 5-19-87
 Chief - Bureau of Engineering - DATE 5-18-87
 Chief - Bureau of Utilities - DATE 5-15-87
 Chief - Land Development Division - DATE

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS

2315 ST. PAUL ST.
 BALTIMORE, MARYLAND

DES: SJ	BY: NO.	REVISION	DATE
DRN: R.M.			
CHK: RBN			
DATE:			

PLAN & PROFILE OF
 WATER & SEWER MAINS

COLUMBIA GATEWAY
 COLUMBIA GATEWAY DRIVE
 AND PARCELS S AND T
 ELECTION DISTRICT NO. 6
 CONTRACT NO. 24-1629-D

SCALE
 AS SHOWN
 SHEET
 3 OF 4

Match Line A-A See Sheet 2

Match Line B-B See Sheet 4

COLUMBIA GATEWAY DRIVE

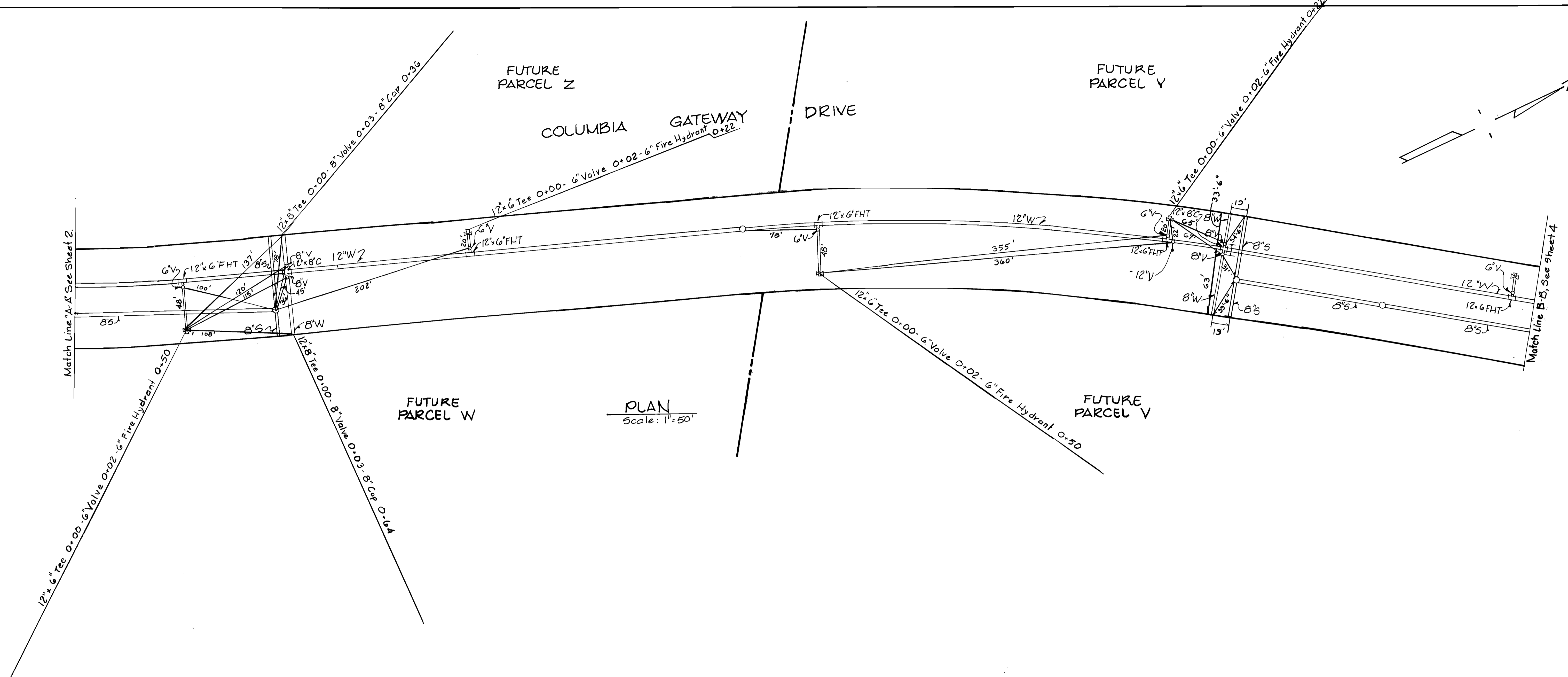
FUTURE PARCEL Z

FUTURE PARCEL Y

FUTURE PARCEL W

FUTURE PARCEL V

PLAN
Scale: 1"=50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

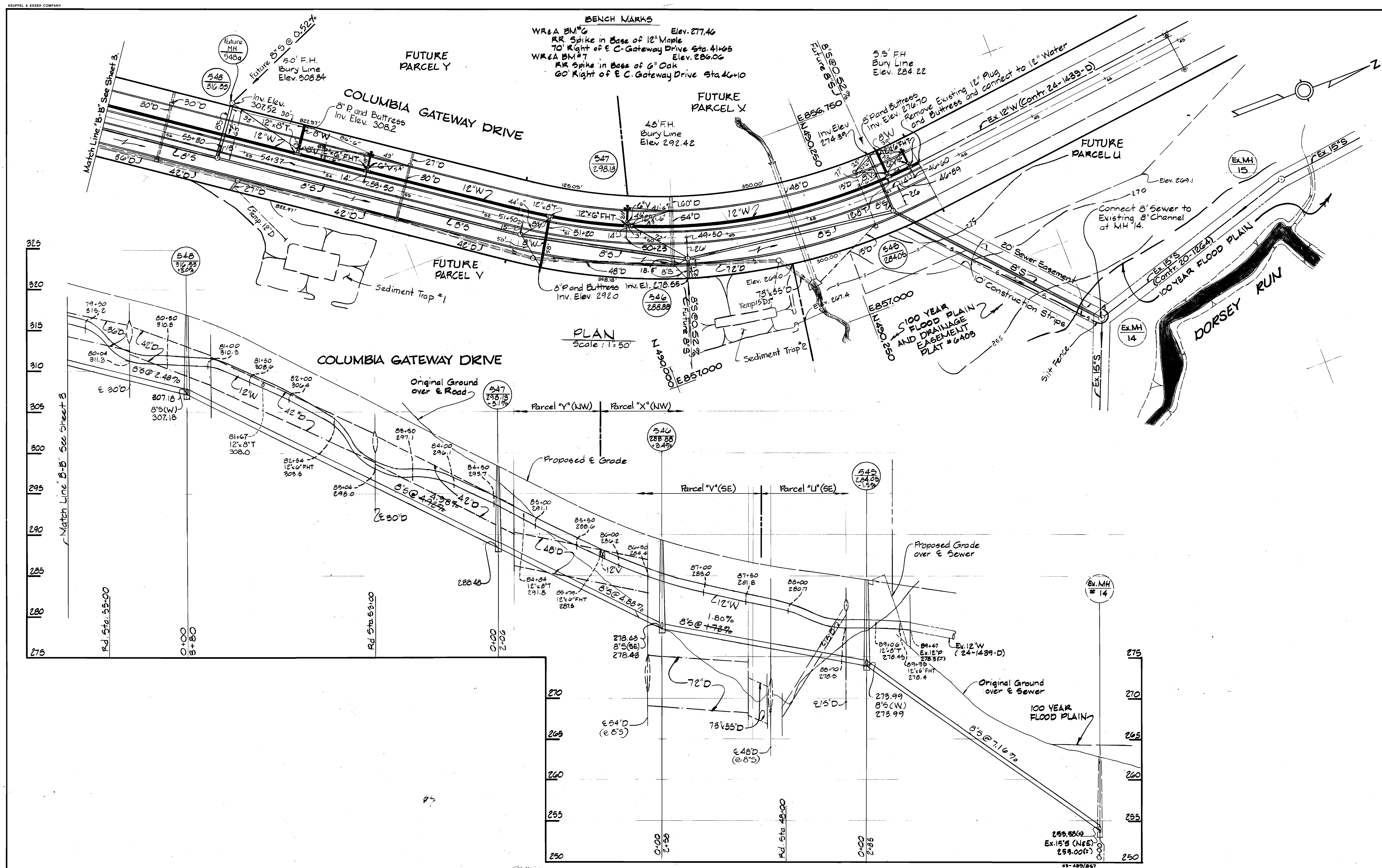
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AS BUILT OF
WATER & SEWER MAINS

COLUMBIA GATEWAY DRIVE
AND PARCEL S AND T
CONTRACT NO. 24-1629-D

SCALE
AS
SHOWN

SHEET
3-A OF 4



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE 5-19-17
 Chief - Bureau of Engineering - DATE 5-18-17
 Chief - Bureau of Utilities - DATE 5-15-17
 Chief - Land Development Division - DATE

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

DES: S.J.
 DRN: R.M.
 CHK: R.W.
 DATE: 5/15/17

PLAN & PROFILE OF
 WATER & SEWER MAINS

COLUMBIA GATEWAY
 COLUMBIA GATEWAY DRIVE
 AND PARCEL SAND T
 ELECTION DISTRICT NO. 6
 CONTRACT NO. 24-1629-D
 SCALE AS SHOWN
 SHEET 4 OF 4