

WATER AS-BUILTS

FROM	TO	DISTANCE
EX. 8" V.	F.H. @ STA. 1+10	10.0'
F.H. V. @ STA. 1+10	WHC BLDG. #1	75.15'
F.H. @ STA. 1+10	" #2	56.48'
INLET 1-3	" #3	46.90'
F.H. @ STA. 3+35	F.H. V. @ STA. 3+35	23.00'
SMH 403	WHC BLDG. #3	79.00'
F.H. @ STA. 3+35	" #4	132.00'
SMH 403	" #5	124.00'
" 402	" #6	180.00'
" 403	" #7	202.00'
" 402	" #8	204.00'
" 403	" #9	204.00'
F.H. @ STA. 6+71	F.H. V. @ STA. 6+71	14.00'
SMH 404	WHC BLDG. #7	88.00'
SD MH	" #8	47.00'
END OF 8" W @ STA. 2+27	" #9	14.00'
SMH 405	SMH 405	0.00'
8" V. @ STA. 6+03	8" V. STA. 6+77	74.00'
" " " " " " " "	" " " " " " " "	74.00'
" " " " " " " "	" " " " " " " "	74.00'
" " " " " " " "	" " " " " " " "	74.00'
SMH 405	WHC BLDG. #9	70.00'
8" V. @ STA. 6+77	F.H. V. STA. 11+46	108.00'
F.H. @ STA. 11+46	WHC BLDG. #10	47.00'
F.H. V. @ STA. 11+46	"	47.00'

TYPE OF BUILDING	Apartments
NUMBER OF UNITS	10
NUMBER OF SHC's	10
NUMBER OF WHC's	10
DRAINAGE AREA	Little Patuxent
TREATMENT PLANT	Little Patuxent Water Reclamation Plant, Savage

GENERAL NOTES

- PART I -**
- 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. data (Howard County Geodetic Control Stations No. 2243002 and No. 2243003).
 - All pipe elevations shown are invert elevations.
 - Clear all utilities by a minimum of 6". Clear all poles by a 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
 - For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). 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 \square 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 located by the contractor two weeks in advance of construction operations at his own expense.
 - Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
BG&E Co. Contractor Services	850-4620
BG&E Co. Under Ground Damage Control	787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1390
Howard County Dept. of Public Works, Bur. of Utilities	313-4900

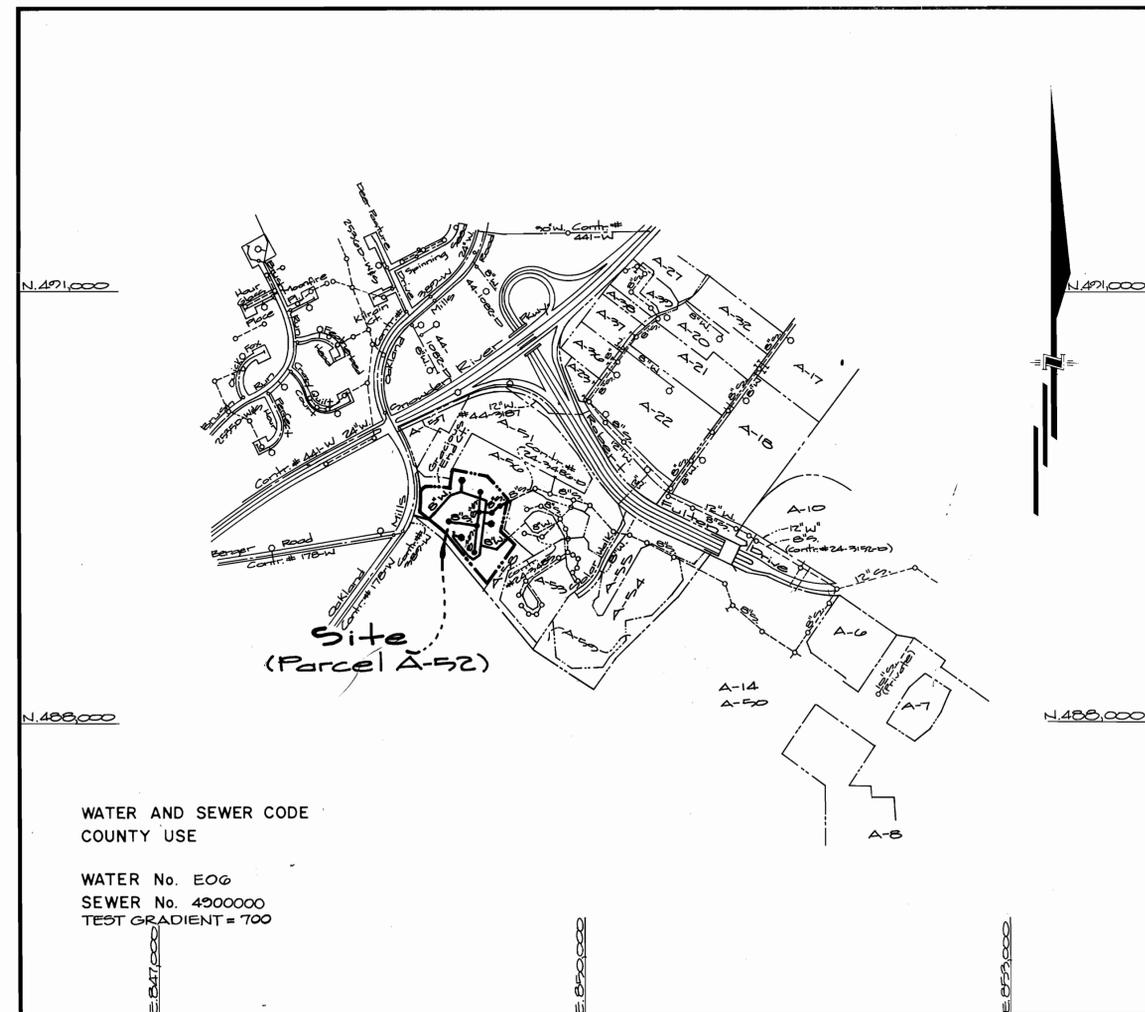
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.

PART II - WATER

- 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 1000 and 1005 of the Standard Specifications.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- For sprinkler system for all townhouse or multi-family dwelling units shall have minimum 1" connection with 3/4" meter.

PART III - SEWER

- All sewer mains shall be DIP, RCP, VCP, CSP, RCP and 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.
- Force mains shall be D.I.P. only.
- 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 G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.



WATER AND SEWER CODE
COUNTY USE

WATER No. E06
SEWER No. 4900000
TEST GRADIENT = 700

VICINITY MAP
SCALE: 1" = 600'

CONTRACT NO. 44-3501-D

GATEWAY COMMERCE CENTER

PARCEL A-52

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Site Development Plan BOP-26-67; Drawings for Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

Tatiana Craker
SIGNATURE DATE 1/31/96

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

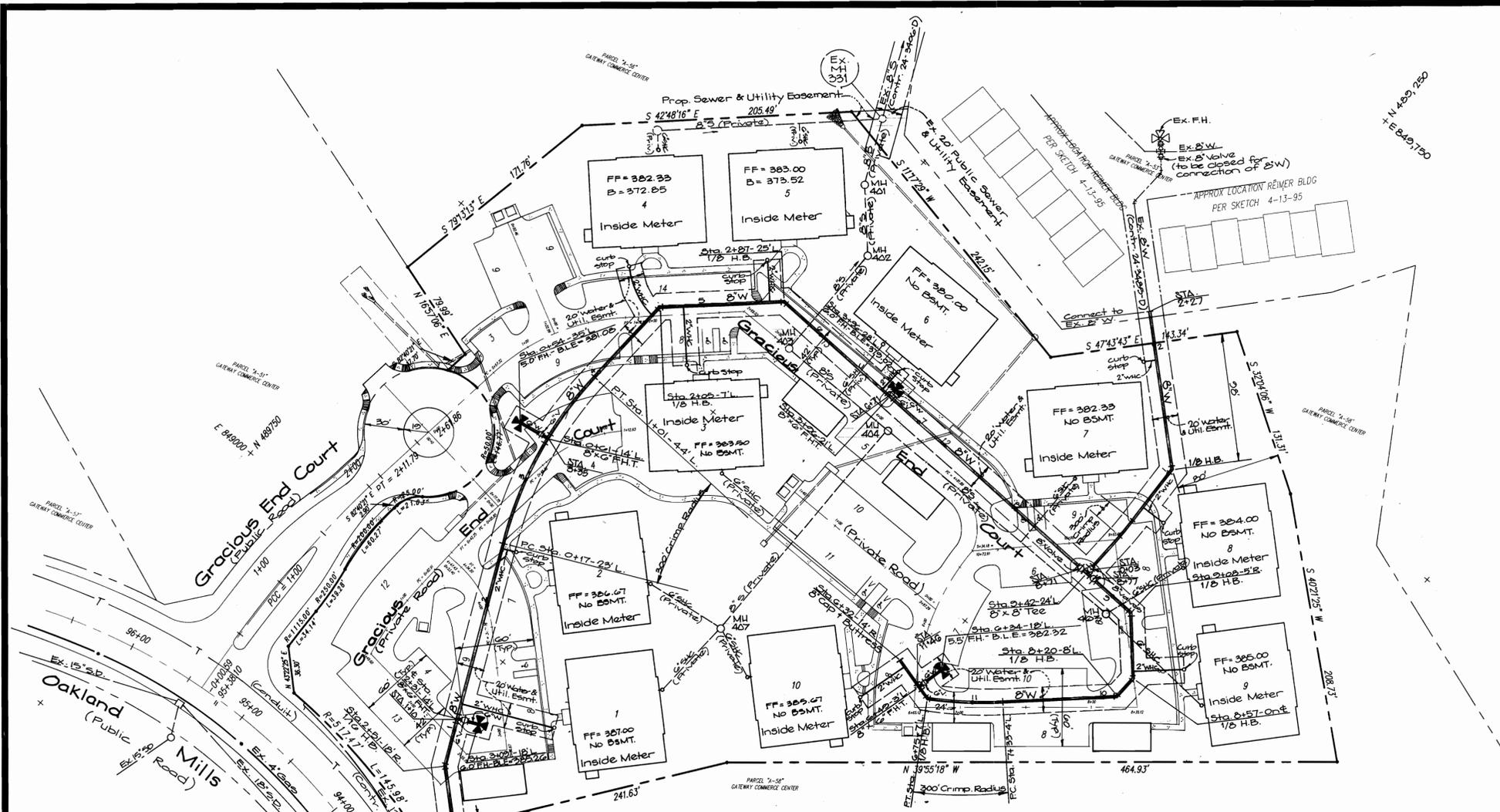
APPROVED
John R. Robertson
HOWARD S.C.D. DATE 1/31/96

ITEMS	QUANTITIES ESTIMATED	QUANTITIES AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	1328 LF.	1328 LF.	D.I.P.	GRIFFIN PIPE PROD.
6" W	70 LF.	65 LF.	"	"
2" WHC	330 LF.	353 LF.	K' COPPER	CAMBRIDGE LEE/WATER PRO
F.H. & V.	4 EA.	4 EA.	CENTURION	MUELLER CO./WATER PRO
8" Valve	4 EA.	3 EA.	GATE	"
1/8" H.B.	8 EA.	9 EA.	M.J.	GRIFFIN PIPE PROD.
1/4" H.B.	2 EA.	1 EA.	"	"

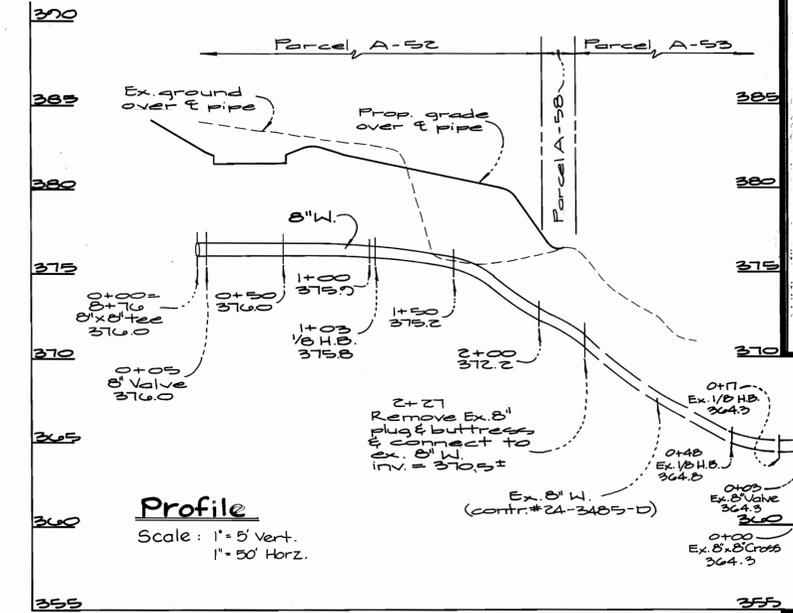
NAME OF UTILITY CONTRACTOR:

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	GLW GUTSCHICK LITTLE & WEBER, P.A. ENGINEERS, PLANNERS, SURVEYORS 3909 NATIONAL DRIVE SUITE 250 BURTNSVILLE OFFICE PARK BURTNSVILLE, MD. 20866 13011 421-4024	DES: GAH DRN: W5J CHK: GAH DATE: Jan. 1996	BY: NO. REVISION	DATE: 600' SCALE MAP NO. 42 BLOCK NO. 5	Public Water Extension Cover Sheet Scale: as shown	Gateway Commerce Center Parcel A-52 Contract No.: 44-3501-D 6th Election District Howard County, Maryland	SCALE AS SHOWN SHEET 1 OF 2
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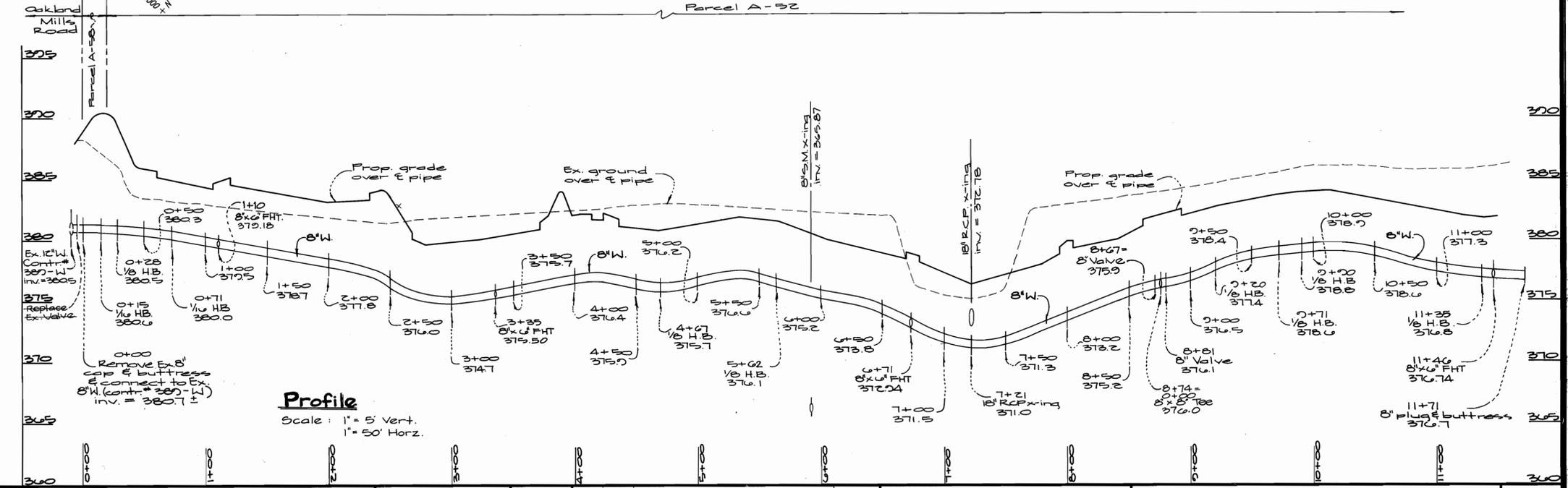
AS-BLT 9/96



Plan
Scale: 1" = 50'



Profile
Scale: 1" = 5' Vert.
1" = 50' Horiz.



Profile
Scale: 1" = 5' Vert.
1" = 50' Horiz.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. J. Bump 1-26-96
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
M. J. ... 2/1/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (410) 880-1820 ~ FAX: (301) 421-4186



DES: GAH					
DRN: KLP					
CHK: GAH					
CHK: CKG					
DATE: Jan 1996	BY: NO	REVISION:	DATE:	600' SCALE MAP NO. 42	BLOCK NO. 5

Public Water Extension
Plan and Profile
Scale: As Shown

Gateway Commerce Center
Parcel A-52
Contract No.: 44-3501-D
6th Election District
Howard County, Maryland

SCALE AS SHOWN
SHEET 2 OF 2

AS-BLT 9/96 AS-BUILT