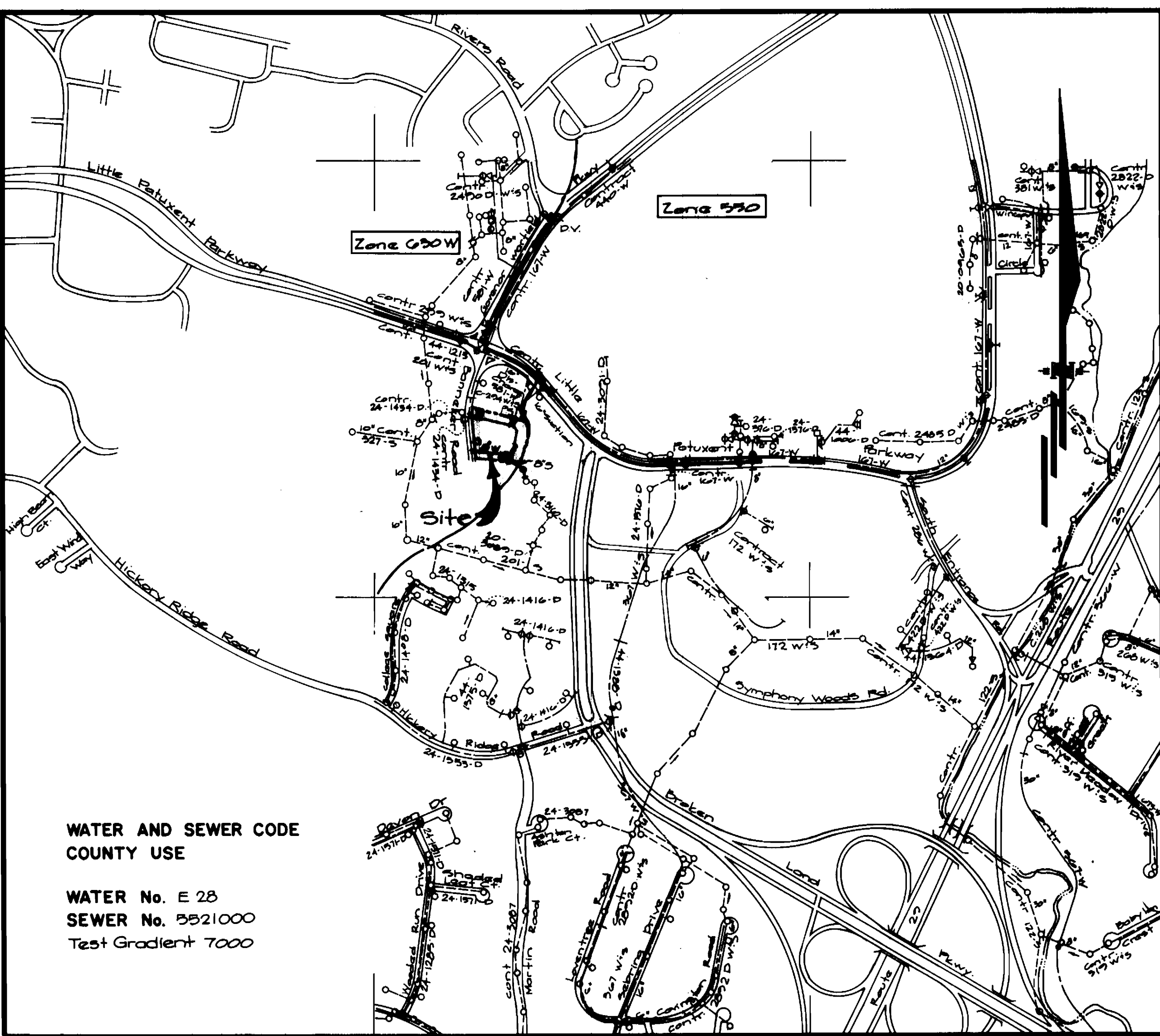


| | |
|------------------|------------------------|
| TYPE OF BUILDING | Condominium Apartments |
| NUMBER OF UNITS | 7 |
| NUMBER OF SHC's | 1 |
| NUMBER OF WHC's | 7 |
| DRAINAGE AREA | Little Patuxent |



WATER AND SEWER CODE
COUNTY USE

WATER No. E 28
SEWER No. 5521000
Test Gradient 7000

VICINITY MAP
SCALE: 1" = 600'

CONTRACT NO. 24-3259-D

COLUMBIA TOWN CENTER

SECTION 3 - AREA 2 - PARCEL "B"

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications, B with Site Development Plan SDP 03-70; Drawings 3 of 7 Sediment & Erosion Control, and these drawings.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

James M. Helms 3/22/93
SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

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

APPROVED:

John P. Roberts 3/22/93
HOWARD S.C.D. DATE

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.
 - 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 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 |
| BGA&E Co. Contractor Services | 850-4820 |
| BGA&E Co. Under Ground Damage Control | 787-9068 |
| Miss Utility | 1-800-257-7777 |
| Colonial Pipeline Co. | 785-1380 |
| 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.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

PART III - SEWER

- All sewer mains shall be DIP, RCP, VCPX, CSPX, 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 18" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-8" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.

| ITEMS | QUANTITIES ESTIMATED | AS-BUILT | | |
|--------------------|----------------------|------------|-----------------|-----------------------|
| | | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER |
| 8" Water | 1100 LF | 1104.3 LF | 8" SDR 35 | QUINN PIPE PRODUCTS |
| 6" Water | 54 LF | 52.65 LF | 6" SDR 35 | QUINN PIPE PRODUCTS |
| 2" WHC | 120 LF | 129.35 LF | 2" SDR 35 | QUINN PIPE PRODUCTS |
| 2" Meter Vault | 7 EA | 7 EA | | |
| Fire Hydrants | 3 EA | 3 EA | 2-1/2" x 1-1/2" | MUELLER CO. |
| 6" x 12" x 4" | 2 EA | 2 EA | | MUELLER CO. |
| 6" - 1/2" H.B. | 3 EA | 3 EA | MJ DILLON | QUINN PIPE PRODUCTS |
| 6" - 1/2" H.B. | 1 EA | 1 EA | MJ DILLON | QUINN PIPE PRODUCTS |
| 8" Sewer | 205 LF | 199.4 LF | 8" SDR 35 | QUINN PIPE PRODUCTS |
| 4" Manholes | 2 EA | 2 EA | | |
| Silt Fence | 250 LF | 200 LF | | |
| Type "B" Drop Conn | 1 EA | 1 EA | PVC 2-1/2" x 3" | |

NAME OF UTILITY CONTRACTOR: ROWLAND EXCAVATING

WATER AS-BUILT

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE:

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Helms 3/23/93
DIRECTOR OF PUBLIC WORKS DATE

John P. Roberts 3/23/93
CHIEF, BUREAU OF ENGINEERING DATE

John P. Roberts 3/16/93
CHIEF, BUREAU OF UTILITIES DATE

John P. Roberts 3/16/93
CHIEF, LAND DEVELOPMENT DIV. DATE

GW GUTSCHICK LITTLE & WEBER, P.A.
ENGINEERS, PLANNERS, SURVEYORS

2000 NATIONAL DRIVE, SUITE 250, BERTHOVILLE OFFICE PARK
BERTHOVILLE, MD. 20686
(301) 481-4024



| | | | |
|------------------|---------|----------|------|
| DES: G.A.H. | | | |
| DRN: G.A.H. | | | |
| CHK: C.K.G. | | | |
| DATE: March 1993 | BY: NO. | REVISION | DATE |

Water & Sewer Title Sheet
Scale: As Shown

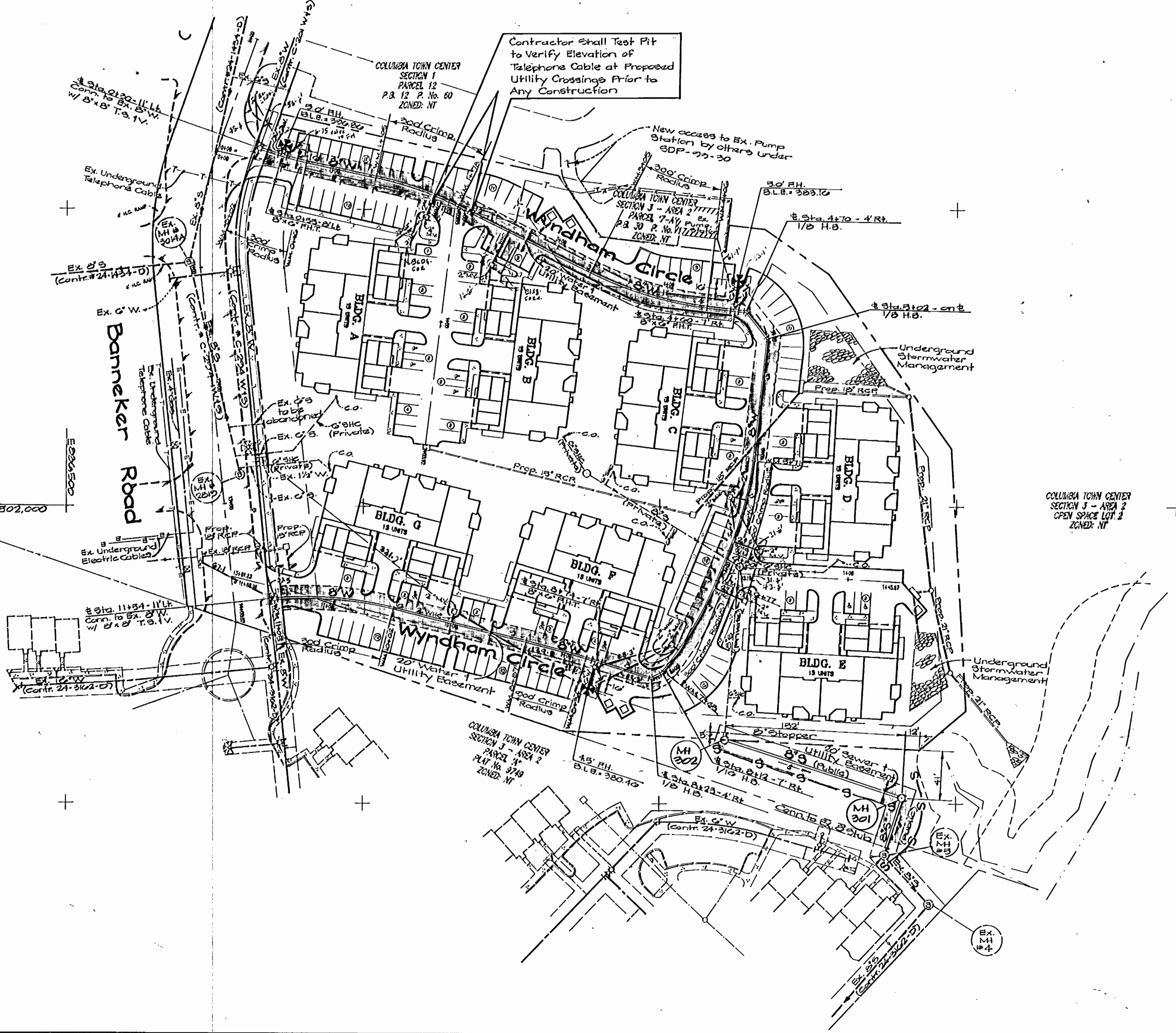
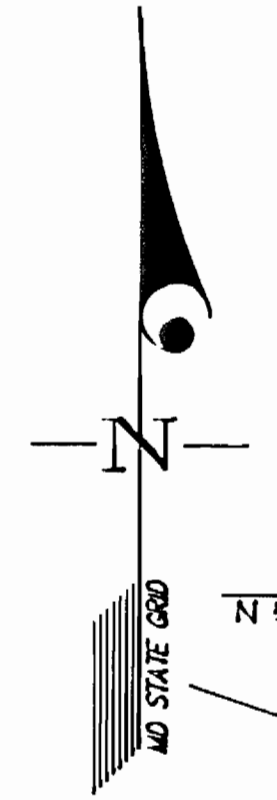
600' SCALE MAP NO. 36 BLOCK NO. 1

Columbia Town Center
Section 3 - Area 2
Parcel "B"
5th Election District Howard County, Maryland
Contract No. 24-3259-D

SCALE AS SHOWN
SHEET 1 OF 3

AS-BUILT

E 502,500
N 502,500



E 502,500
N 502,000

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lewis 3/15/93
DIRECTOR OF PUBLIC WORKS DATE

William D. Gray 3-23-93
CHIEF, BUREAU OF ENGINEERING DATE

Robert Beisinger 7-16-93
CHIEF, BUREAU OF UTILITIES DATE

Michael Land Development Div. 3/15/93
DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
ENGINEERS, PLANNERS, SURVEYORS

3909 NATIONAL DRIVE - SUITE 200 - BURTOWNVILLE OFFICE PARK
BURTOWNVILLE, MD. 20866
(301) 421-1024



DES: G.A.H.
DRN: G.A.H.
CHK: C.K.G.
DATE: March 1993

| BY | NO. | REVISION | DATE |
|----|-----|----------|------|
| | | | |

Water & Sewer Construction Plan
Scale: 1" = 30'

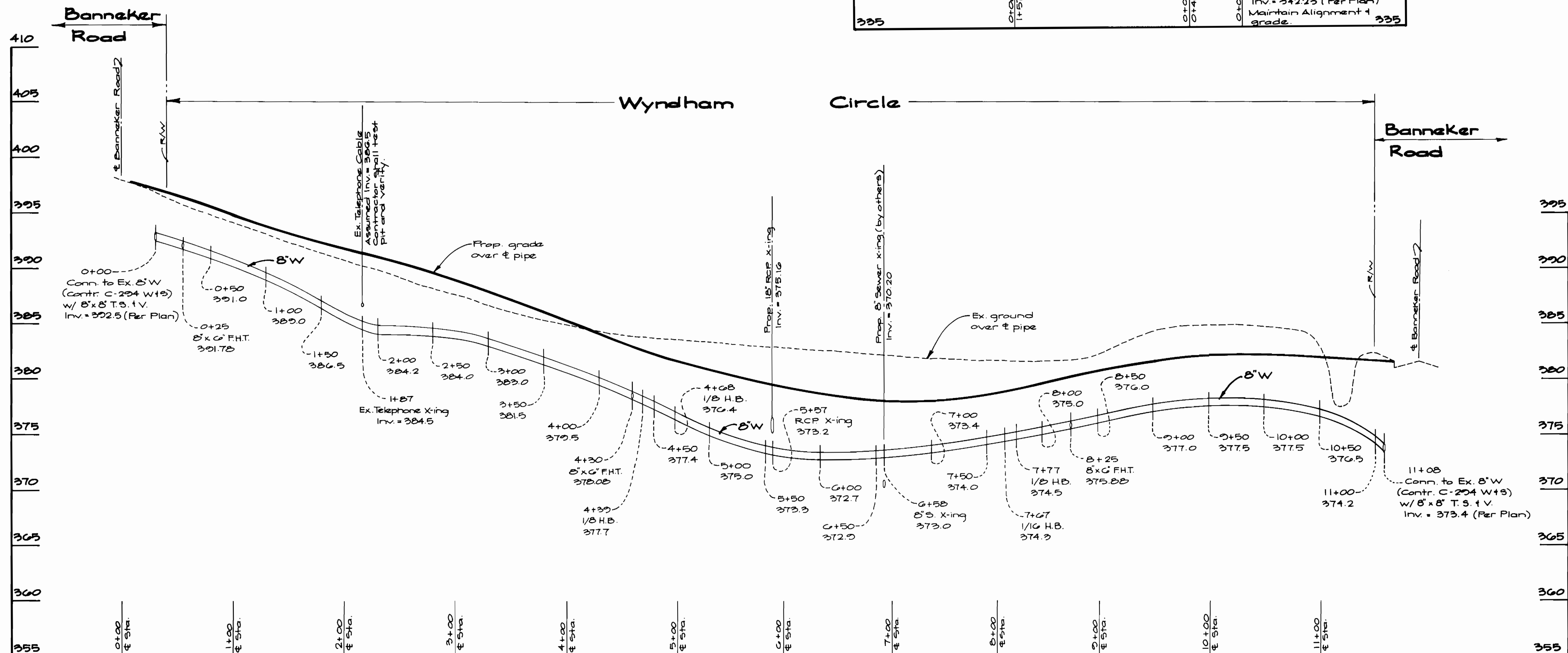
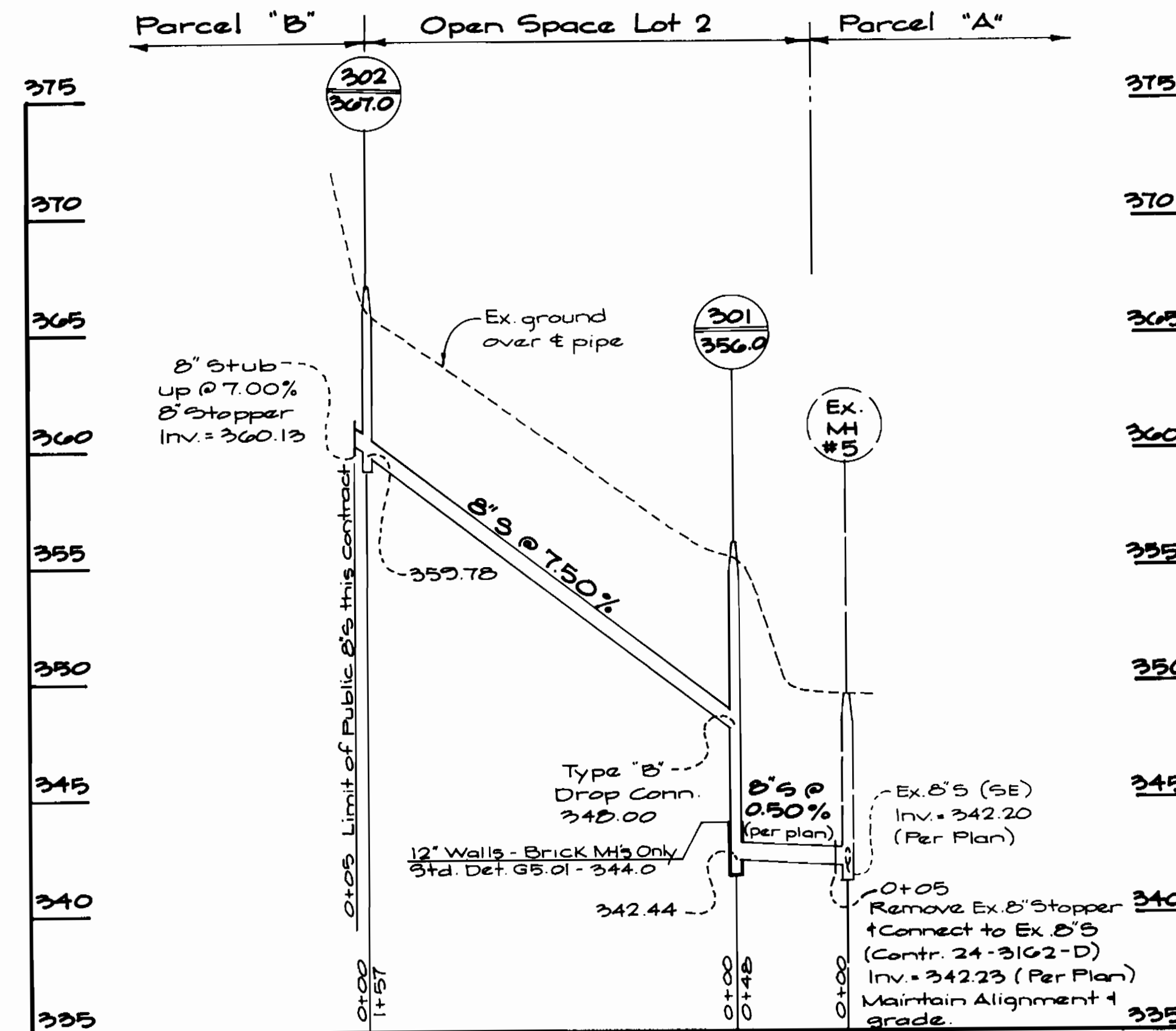
600' SCALE MAP NO. 36 BLOCK NO. 1

WATER AS-BUILT

Columbia Town Center
Section 3 - Area 2
Parcel 'B'

9th Election District, Howard County, Maryland
Contract No. 24-3259-0

SCALE AS SHOWN
SHEET 2 OF 3
AS-BUILT 9/3/93



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

GW GUTSCHICK LITTLE & WEBER, P.A.
ENGINEERS, PLANNERS, SURVEYORS



| | | | | | |
|-------|------------|----|----|----------|------|
| DES. | G.A.H. | | | | |
| DRN. | G.A.H. | | | | |
| CHK. | C.K.G. | | | | |
| DATE: | March 1993 | BY | NO | REVISION | DATE |

Water & Sewer Profiles
Scale: 1" = 50' Horiz.
1" = 5' Vert.

Columbia Town Center
Section 3 - Area 2
Parcel 'B'
5th Election District Howard County, Maryland
Contract No: 24-3250-D

SCALE AS SHOWN
SHEET 2 OF 3