

WATER AND SEWER EXTENSION WOODLOT SECTION 2 CONTRACT NO. 34-3317-D 5th ELECTION DISTRICT

GENERAL NOTES

1. 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.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.G.S. data.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6". Clear all poles by 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 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.
6. 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.
7. 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.
8. 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
 - Baltimore Gas & Electric Co. Contractor Services 850-4620
 - Baltimore Gas & Electric Co. Underground Damage Control 787-9068
 - Miss Utility 1-800-257-7777
 - Colonial Pipeline Co. 795-1390
 - Bureau of Utilities, Howard County Department of Public Works 313-4900
9. Trees 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.
10. 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.
11. All water mains to be D.I.P. Class 52 unless otherwise noted.
12. Taps of all water mains to have a minimum of 3'-1/2" cover unless otherwise noted.
13. Valves adjacent to tees shall be strapped to tees.
14. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
15. 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.
16. The contractor shall not operate any water main valves on the existing water system.
17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
18. All sewer mains shall be DIP, RCP, V-P-K, CSP-K, RCP and P.V.C. unless otherwise noted.
19. All manholes shall be 4'-0" inside diameter unless otherwise noted.
20. Force mains shall be D.I.P. only.
21. Manholes shown with 12" and 16" walls are for brick manholes only.
22. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.5.2. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
23. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

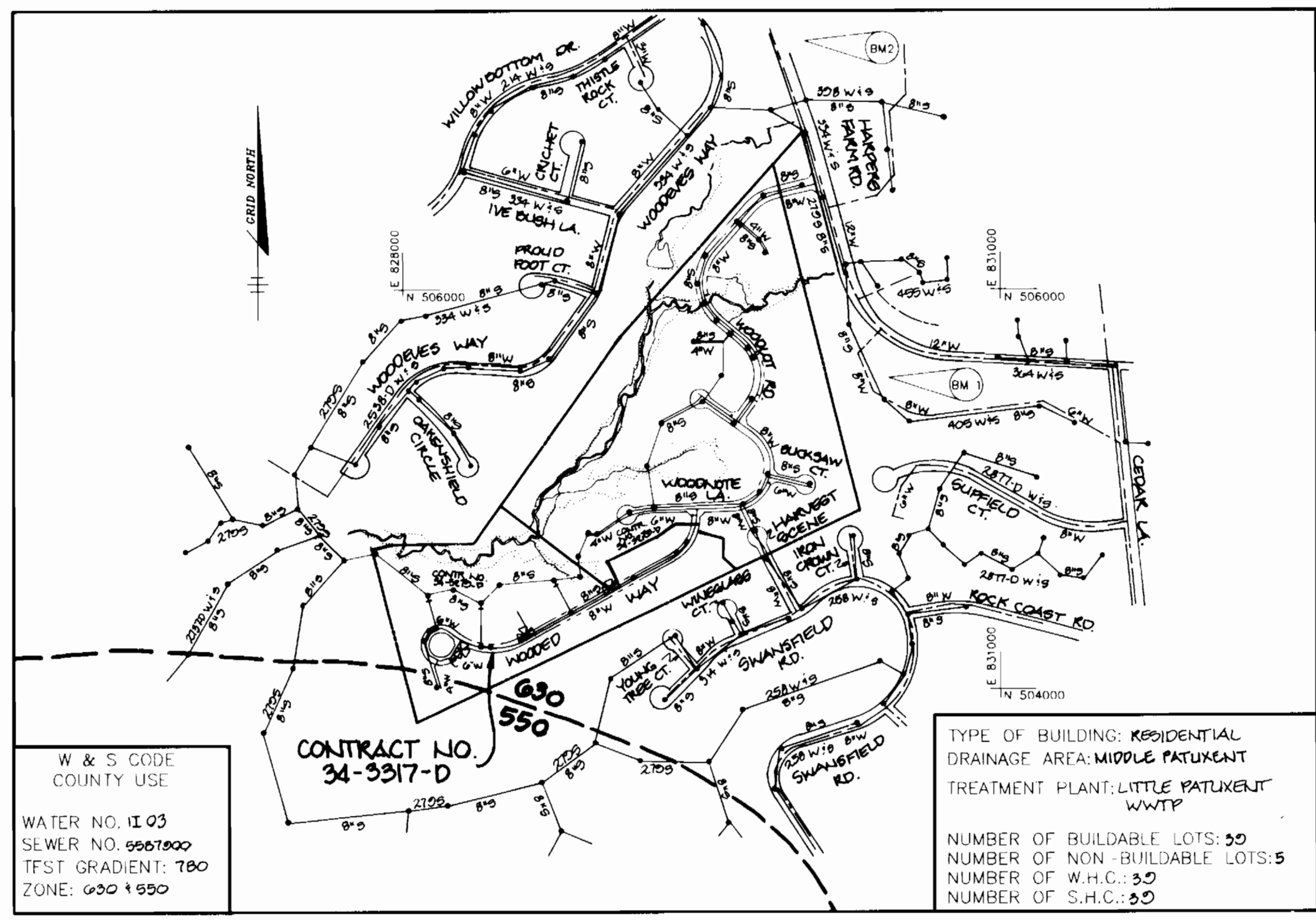
| QUANTITIES | | | | |
|-----------------------|----------------------|------------|--|---|
| ITEMS | QUANTITIES ESTIMATED | AS-BUILT | | |
| | | QUANTITIES | TYPE | MANUFACTURER / SUPPLIER |
| 8" SEWER MAIN | 1951 LF | 1950 | PVC 8" x .55 | J.M. Manufacturer |
| 4" MANHOLE | 9 EA. | 5 EA. | Concrete Precast | Belair Rd. Atlantic Conc. Products |
| TERMINAL MANHOLE | 4 EA. | 4 EA. | " | " |
| DROP MANHOLE TYPE 'A' | 1 EA. | 1 EA. | " | " |
| DROP MANHOLE TYPE 'B' | 1 EA. | 1 EA. | " | " |
| 4" S.H.C. | 841 LF | 944 LF | PVC 8" x .55 | J.M. Manufacturer |
| 8" WATER MAIN | 1307 LF | 1414 LF. | Dipon Joint D.I.P. Class 52 | Griffin Pipe Florence N.J. |
| 6" WATER | 453 LF | 472 LF. | " | " |
| 4" WATER MAIN | 302 LF | 306 LF. | " | " |
| 4" CAP & BUTTRESS | 2 EA. | 2 EA. | " | " |
| FIRE HYDRANT | 3 EA. | 3 EA. | Orange F.H. | Mueller Co. Belair Rd. Griffin Pipe Florence N.J. |
| 8" x 8" TEE | 1 EA. | 1 EA. | Class 35 Mech. Joint D.I.P. | " |
| 8" x 6" TEE | 3 EA. | 3 EA. | " | " |
| 8" x 4" TEE | 1 EA. | 1 EA. | " | " |
| 6" x 4" TEE | 1 EA. | 1 EA. | " | " |
| 3/4" W.H.C. | 770 LF | 842 LF | 3/4" K. Soft Copper Pipe | Howell Metal Co. New Hkt. Va. |
| 8" VALVE | 1 EA. | 1 EA. | 8" Resilient Seat 8" Gate Valve | Mueller Co. Belair Rd. |
| 6" VALVE | 4 EA. | 4 EA. | 6" Resilient Seat 6" Gate Valve | " |
| 4" VALVE | 1 EA. | 1 EA. | 4" Resilient Seat 4" Gate Valve | " |
| 8" x 6" REDUCER | 2 EA. | 2 EA. | 8" Resilient Seat Class 350 Mech. Joint D.I.P. | Griffin Pipe Florence N.J. |
| 6" CAP & BUTTRESS | 2 EA. | 2 EA. | " | " |

NAME OF UTILITY CONTRACTOR: Consentino

CHECKBOX

AS-BUILT DATE: 9-11-95

SURVEY AND DRAFTING DIVISION



VICINITY MAP
SCALE: 1"=600'

BENCHMARKS

NO. 1
HOWARD COUNTY MONUMENT # 273900Z
ELEV. 472.20
N 505654.515
E 830372.788

NO. 2
HOWARD COUNTY MONUMENT # 2739003
ELEV. 465.10
N 507944.385
E 829697.643

MANHOLE SCHEDULE

| NO | NORTH | EAST |
|----|-----------|-----------|
| 26 | 804300.36 | 828167.20 |
| 27 | 804285.04 | 828128.46 |
| 28 | 804255.25 | 828109.74 |
| 29 | 804010.80 | 828175.12 |
| 30 | 804210.08 | 828301.70 |
| 31 | 804210.35 | 828444.00 |
| 32 | 804385.74 | 828844.70 |
| 33 | 804850.48 | 829640.00 |
| 34 | 804660.01 | 829558.80 |
| 35 | 804751.07 | 829437.10 |
| 36 | 804247.33 | 828553.30 |

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on P-24-12.

HOWARD SOIL CONSERVATION DISTRICT DATE

Review For Howard Soil Conservation District and meet technical requirements.
J. J. Craker 2/14/94
U.S. SOIL CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
John L. Roberts 2/14/94
HOWARD SOIL CONSERVATION DISTRICT DATE

**DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND**

James H. Chew 2-8-94
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Bainger 2-8-94
CHIEF, BUREAU OF UTILITIES DATE

Robert J. Reppert 2/17/94
CHIEF, BUREAU OF ENGINEERING DATE

John J. Williams 2/16/94
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

J. J. Kanski
JAYKANT U. PAREKHI # 19148

| | | | |
|---------------|---------|----------|------|
| DES: J.T.D. | | | |
| DRN: J.C.D. | | | |
| CHK: D.F. | | | |
| DATE: 1-27-94 | BY: NO. | REVISION | DATE |

TITLE SHEET

600' SCALE MAP NO. 28 BLOCK NO. 22

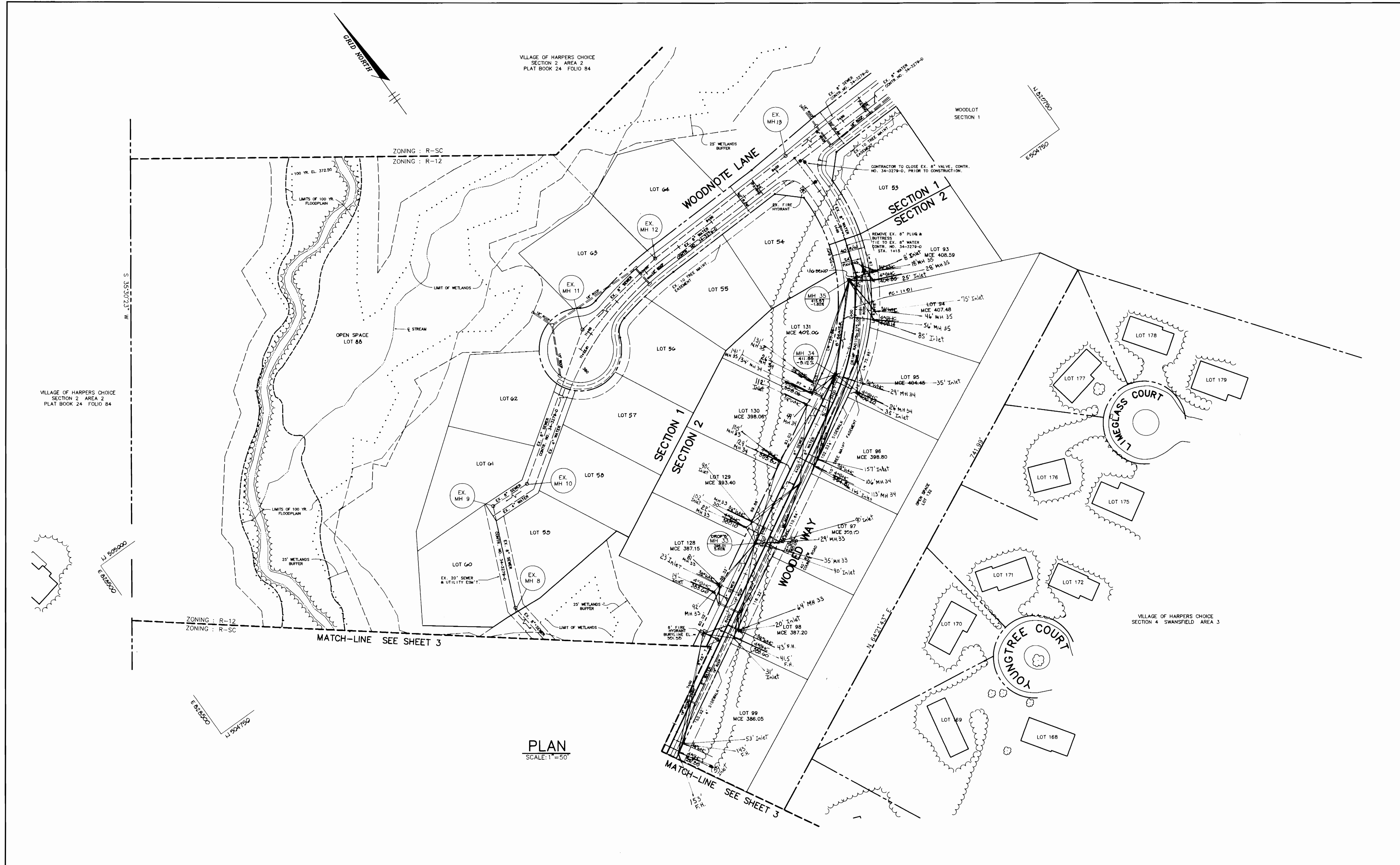
WOODLOT
SECTION 2, LOTS 93-130
TAX MAP 29 PARCEL 365
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3317-D

SCALE AS SHOWN
SHEET 1 OF 5

Woodlot, Sect. 2
ws/1
3317

As Built 9-11-95 S.A.S.

3317 Woodlot, sect. 2
WS/2

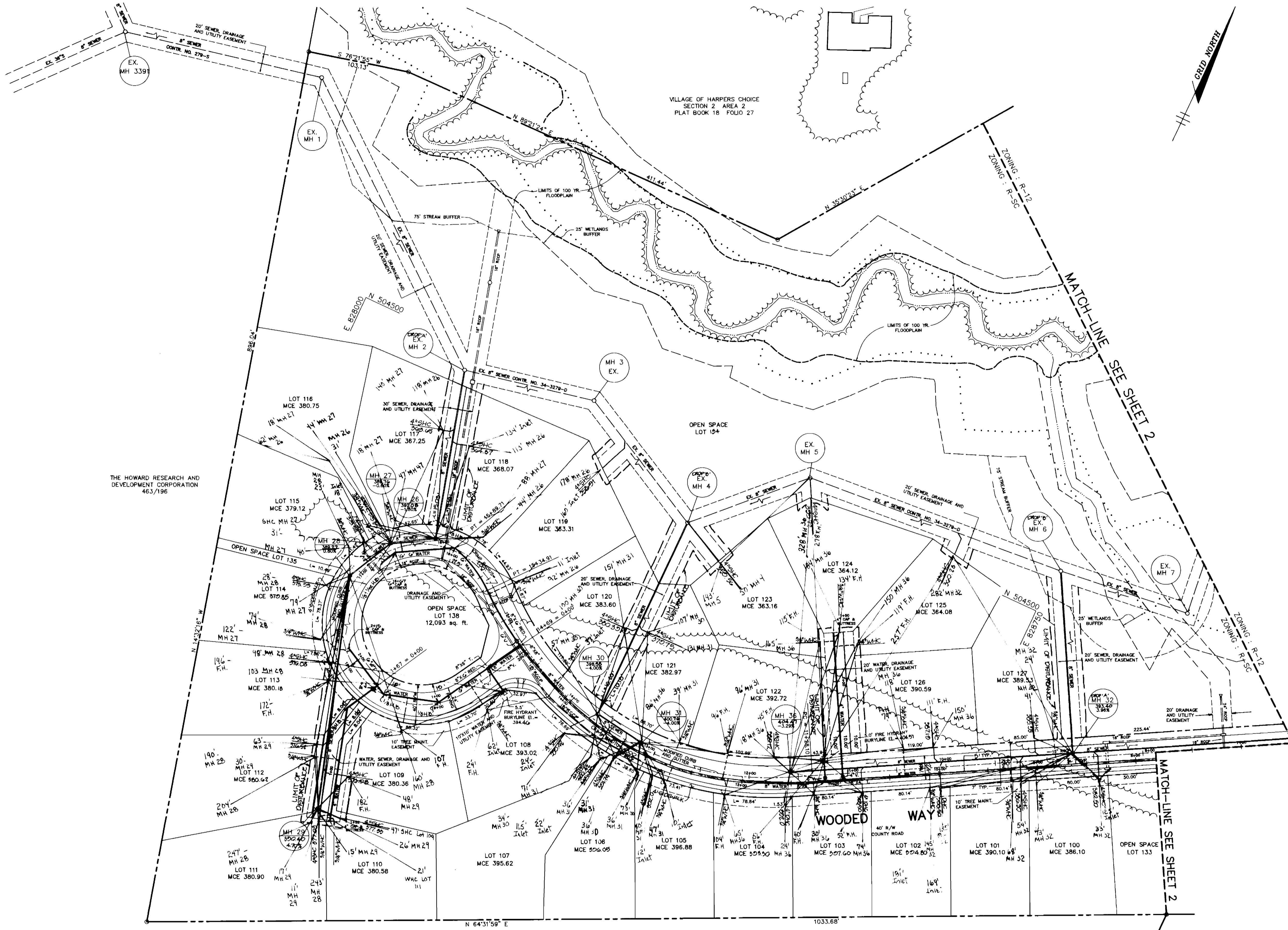


PLAN
SCALE: 1" = 50'

| | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|
| DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>Robert M. Bainger</i> 2-8-94 Chief, Bureau of Engineering: <i>Paul D. Ryan</i> 2/17/94 Chief, Bureau of Utilities: <i>Robert M. Bainger</i> 2-8-94 Chief, Land Development: <i>Michael Dammus</i> 2/14/94 | | RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive Suite 200 Columbia, Md 410-997-8900 FAX: 410-997-9282 <i>J. Parekh</i> JAYKANT D. PAREKH # 19148 | | DES: J.T.D. DRN: J.C.O. CHK: D.F. DATE: 1-27-04 | | PLAN OF WATER AND SEWER MAINS 600' SCALE MAP NO. 29 BLOCK NO. 22 | | WOODLOT SECTION 2, LOTS 93-136 TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 34-3317-D | | SCALE AS SHOWN SHEET 2 OF 5 |
|--|--|--|--|--|--|--|--|--|--|---|

As Built 9-11-95 S.A.S.

3317 ws/3 Woodlot, sect 2



VILLAGE OF HARPERS CHOICE SECTION 2 AREA 2 LOT 1 ON PLAT #5025
PLAN
 SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. Allen 2/18/94
 DIRECTOR OF PUBLIC WORKS DATE

Robert V. Deary 2-8-94
 CHIEF, BUREAU OF UTILITIES DATE

Richard S. Segan 2/17/94
 CHIEF, BUREAU OF ENGINEERING DATE

John D. Deary 2/16/94
 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive Suite 200 Columbia, Md
 410-997-8900 FAX : 410-997-9282

J. Sankel 2/17/94
 JAYKANT D. PAREKH # 19148

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|---------------|-----|-----|---|---------|--|
| DES: J.T.D. | | | | | |
| DRN: J.C.O. | | | | | |
| CHK: D.F. | RJC | 2 | RELOC. EX 50 INLETS ALONG WOODDED WAY NR. LOT 100 | 8-15-95 | |
| DATE: 1-27-94 | WAD | 1 | REV. EHC TO DHC LOTS 109 & 108 | 5-10-94 | |
| | BY | NO. | REVISION | DATE | |

PLAN OF WATER AND SEWER MAINS

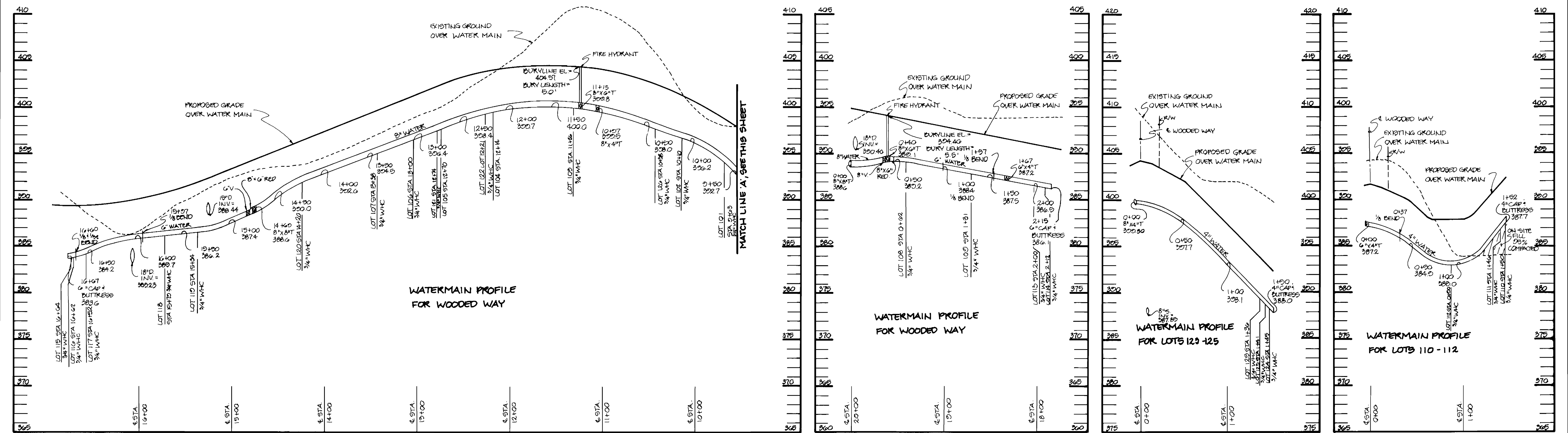
600' SCALE MAP NO. 29 BLOCK NO. 22

WOODLOT
 SECTION 2, LOTS 93-136
 TAX MAP 29 PARCEL 365
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 34-3317-D

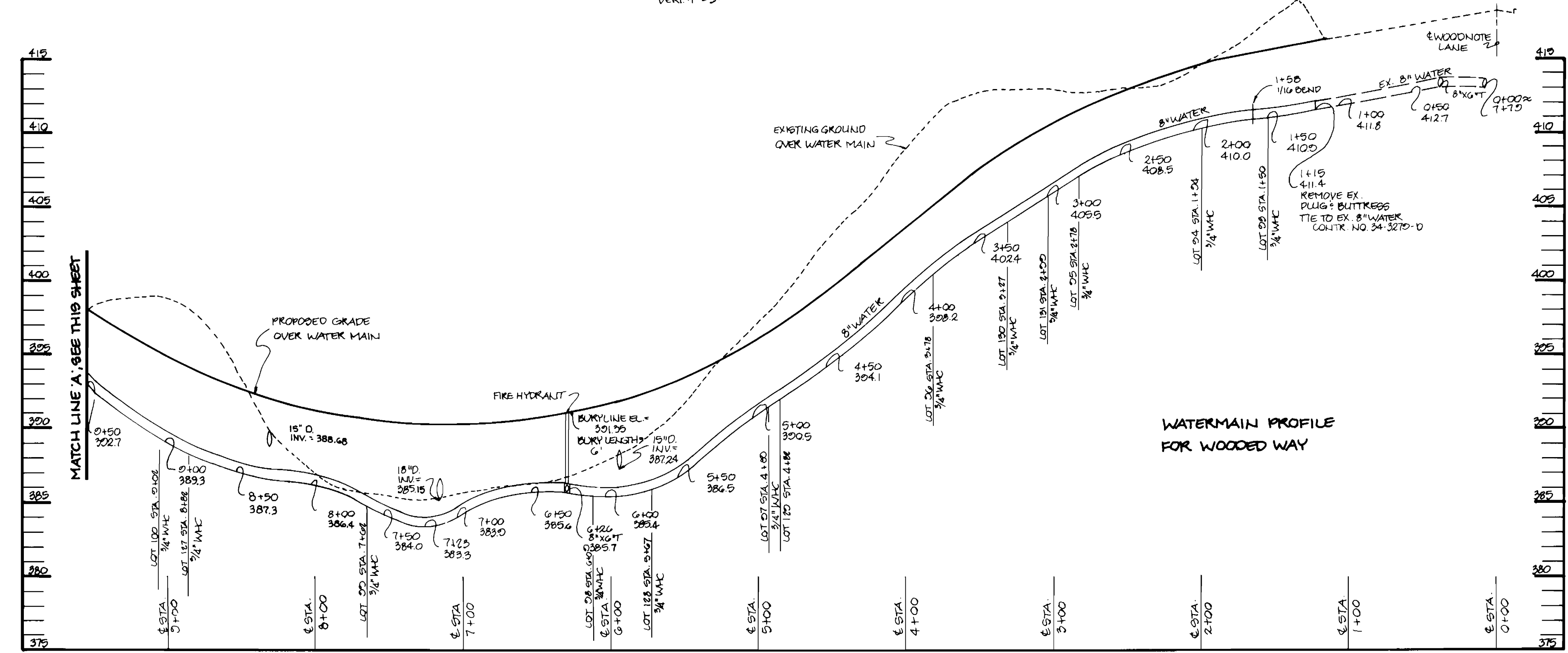
SCALE AS SHOWN
 SHEET 3 OF 5

As Built 9-11-95 S.A.S

3317 ws/4 Woodlot, sect. 2



PROFILE
 HOR: 1"=50'
 SCALE: VERT: 1"=5'



PROFILE
 HOR: 1"=50'
 SCALE: VERT: 1"=5'

| | | | | | | | | | |
|---|--|--|--|--|--|---|--|---|--|
| DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>James J. Sherr</i> 2/18/94 DIRECTOR OF PUBLIC WORKS DATE <i>Robert J. Deinger</i> 2-8-94 CHIEF, BUREAU OF UTILITIES DATE | | RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive Suite 200 Columbia, Md 410-997-8900 FAX: 410-997-9282 <i>J. Savell</i> 2.2.94 JAYKANT D. BAREKH #10148 DATE: 1-27-94 | | DES: J.T.D. DRN: J.C.O. CHK: D.F. RJC 1 BY NO. REVISION DATE | | WATER PROFILES 600' SCALE MAP NO. 22 BLOCK NO. 22 | | WOODLOT SECTION 2, LOTS 93-136 TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 34-3317-D SCALE AS SHOWN SHEET 4 OF 5 | |
|---|--|--|--|--|--|---|--|---|--|

