

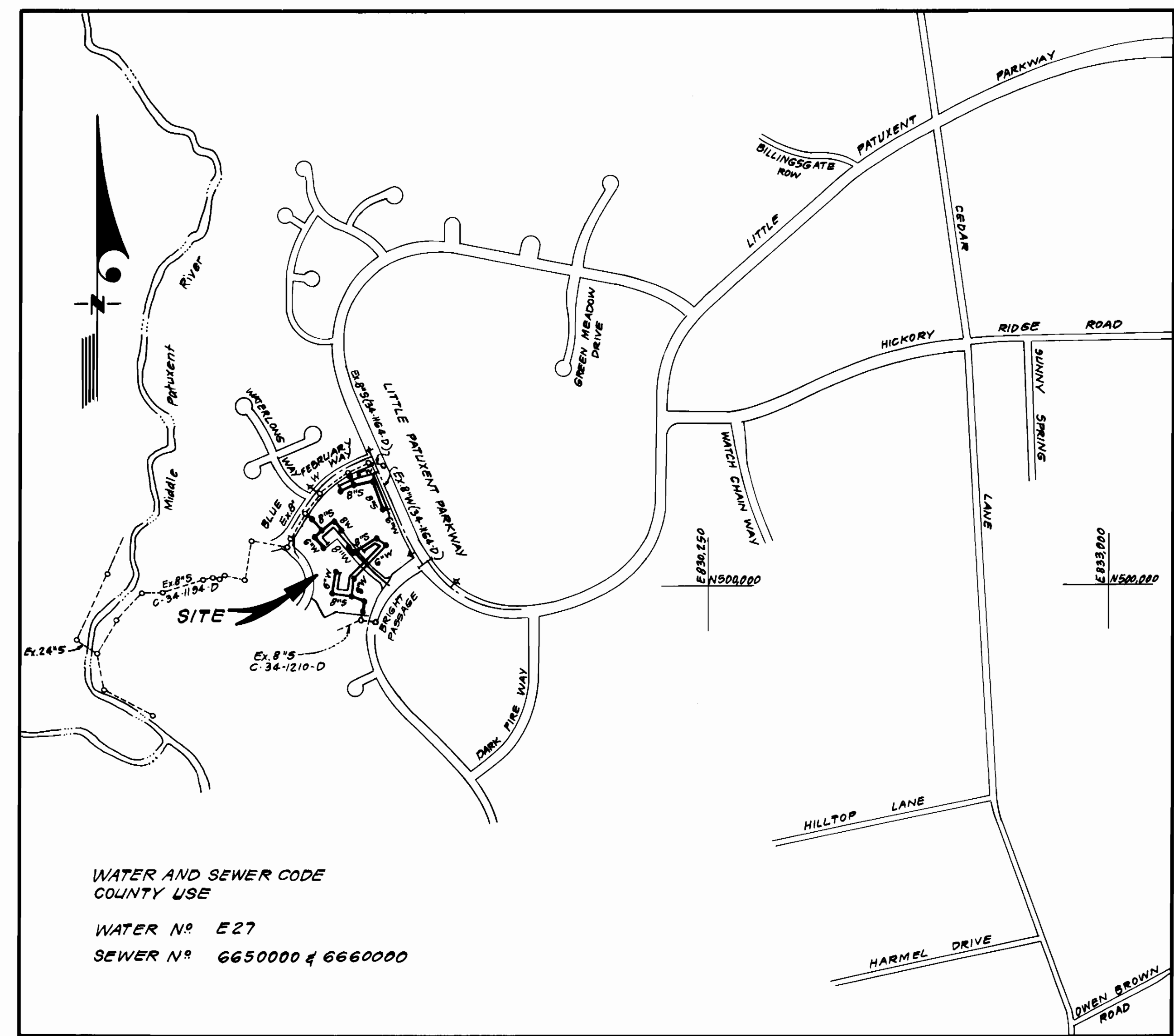
SHC ELEVATIONS

| LOT (S) | INVERT @ P.L. | MIN. CELLAR | LOT (S) | INVERT @ P.L. | MIN. CELLAR |
|---------|---------------|-------------|---------|---------------|-------------|
| 1 | 397.05 | 400.2 | 50/51 | 392.46 | 395.6 |
| 2/3 | 396.18 | 399.3 | 52/53 | 393.92 | 397.0 |
| 4/5 | 394.35 | 397.4 | 54/55 | 395.20 | 398.3 |
| 6/7 | 392.56 | 395.7 | 56/57 | 395.88 | 399.0 |
| 8 | 381.50 | 384.6 | 58/59 | 395.56 | 398.7 |
| 9 | 386.38 | 389.5 | 60/61 | 397.71 | 400.8 |
| 10/11 | 387.51 | 390.6 | 62/63 | 399.78 | 402.9 |
| 12/13 | 387.93 | 391.0 | 64/65 | 401.48 | 404.6 |
| 14/15 | 388.32 | 391.4 | 66/67 | 403.60 | 406.7 |
| 16/17 | 388.55 | 391.7 | 68/69 | 401.97 | 405.1 |
| 18/19 | 388.71 | 391.8 | 70/71 | 400.34 | 403.4 |
| 20/21 | 392.44 | 395.5 | 72/73 | 399.10 | 402.2 |
| 22/23 | 393.48 | 396.6 | 74 | 398.92 | 402.0 |
| 24/25 | 394.50 | 397.6 | 75/76 | 398.78 | 401.9 |
| 26 | 395.26 | 398.4 | 77/78 | 398.71 | 401.8 |
| 27/28 | 395.98 | 399.1 | 79/80 | 398.83 | 401.9 |
| 29/30 | 406.98 | 410.1 | 81/82 | 398.52 | 401.6 |
| 31/32 | 407.35 | 410.4 | 83/84 | 398.48 | 401.6 |
| 33 | 408.12 | 411.2 | 85/86 | 398.36 | 401.5 |
| 34/35 | 408.74 | 411.8 | 87 | 398.22 | 401.3 |
| 36/37 | 394.62 | 397.7 | 88/89 | 377.00 | 380.1 |
| 38/39 | 393.45 | 396.6 | 90/91 | 376.26 | 379.4 |
| 40/41 | 392.17 | 395.3 | 92/93 | 375.41 | 378.5 |
| 42 | 391.27 | 394.4 | 94 | 375.57 | 378.7 |
| 43/44 | 387.46 | 390.6 | 95 | 383.21 | 386.3 |
| 45/46 | 387.38 | 390.5 | 96/97 | 385.53 | 388.6 |
| 47 | 387.18 | 390.3 | 98/99 | 388.33 | 391.4 |
| 48 | 387.01 | 390.1 | 100 | 391.08 | 394.2 |
| 49 | 384.99 | 388.1 | 101/102 | 390.58 | 393.7 |

| | |
|------------------|-----------------|
| TYPE OF BUILDING | Townhouses |
| NUMBER OF UNITS | 102 |
| NUMBER OF WHC'S | 102 |
| NUMBER OF SHC'S | 102 |
| DRAINAGE AREA | Middle Patuxent |

GENERAL NOTES

- 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 Inspector, 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. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications & No. Co. Design Manual, Volume II. The contractor shall have a copy of Volume II on the job.
- Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Company - Contractor Services - 561-2585
 - Baltimore Gas & Electric Company - Underground Damage Control - 234-5621
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9013
 - "Miss Utility" - 1-559-0100
 - Chesapeake & Potomac (C & P) Telephone Company - 725-9976
 - Colonial Pipeline Company - 795-1390
 - Bureau of Utilities Howard County - 992-2366
- Trees are to be protected from damage to maximum extent. Trees 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 as directed by the Inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- All water mains to be D.I.P. unless otherwise noted.
- Top 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.
- Block all fittings with concrete.
- Bury line elevations on fire hydrants shall be set to the 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 to be compacted in accordance with Sections 1003 & 1008 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C., or A.C.P. Class 2400 unless otherwise noted. See note 28.
- 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.
- Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
- For all Copper Water House Connections, utilize flared type fittings only.
- Manholes designated "W.T." in profile, shall have watertight frames and covers.
- For details of 2" - 4 way water house connections, see sheet 2 of 3.
- Manhole thickness shown on profiles pertain to brick manholes only.
- Where indicated on profiles, use ACP Cl. 3300, CSPX with low cradle, VCPX with low cradle or PVCSDR - 35 encased in gravel.



WATER AND SEWER CODE
COUNTY USE

WATER N° E27
SEWER N° 6650000 & 6660000

VICINITY MAP

**CONTRACT NO. 34-1427-D
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6, PARCEL "H"
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with Road Construction Plan F-86-103; Drawings 4 & 5, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
J. Hahn 2/26/86
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:
Stephen L. Hahn 2/26/86
Howard S.C.D. DATE

| ITEM | QUANTITIES | | MATERIAL / SUPPLIER |
|---------------------|------------|----------|---|
| | ESTM'D | AS-BUILT | |
| 8"Ø | 2234 L.F. | 2158 | PVC JMManning / Belair Road Supply |
| 6" W | 975 L.F. | 975 | United States Pipe & Foundry |
| 8" W | 1426 L.F. | 1426 | " |
| 4' Dia. MH | 21 EA. | 21 | Atlantic Precast Conc. Pipe / Lockysville Md |
| F.H. | 4 EA. | 4 | UNITED STATES PIPE / MH / KENNEDY |
| 8" V | 6 EA. | 6 | " |
| 6" V (excl. P.H.V.) | 4 EA. | 4 | " |
| 8" x 8" T.S. & V | 1 EA. | 1 | " |
| 6" SHC | 1474 L.F. | 1465 | " |
| 2" WHC | 166 L.F. | 166 | Cambridge Type K, Copper Tubing / Municipal, Salisbury Md |
| 1" WHC | 881 L.F. | 881 | " |
| 3/4" WHC | 1415 L.F. | 1415 | " |
| 1 1/2" Drain | 3 EA. | 3 | " |

Frames & Covers / BSC Utility Supply / MC Finksburg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Mark F. Nunn 2/26/86
DIRECTOR OF PUBLIC WORKS DATE

Mark F. Nunn 2/26/86
CHIEF, BUREAU OF ENGINEERING DATE

Mark F. Nunn 2/26/86
CHIEF, BUREAU OF UTILITIES DATE

Mark F. Nunn 2/26/86
CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK · FINEPROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
(301) 593-3400



| | | | |
|--------------|----|-----|----------|
| DES: C.K.G. | | | |
| DRN: V.L.M. | | | |
| CHK: C.K.G. | | | |
| DATE: 1-7-86 | BY | NO. | REVISION |

TITLE SHEET

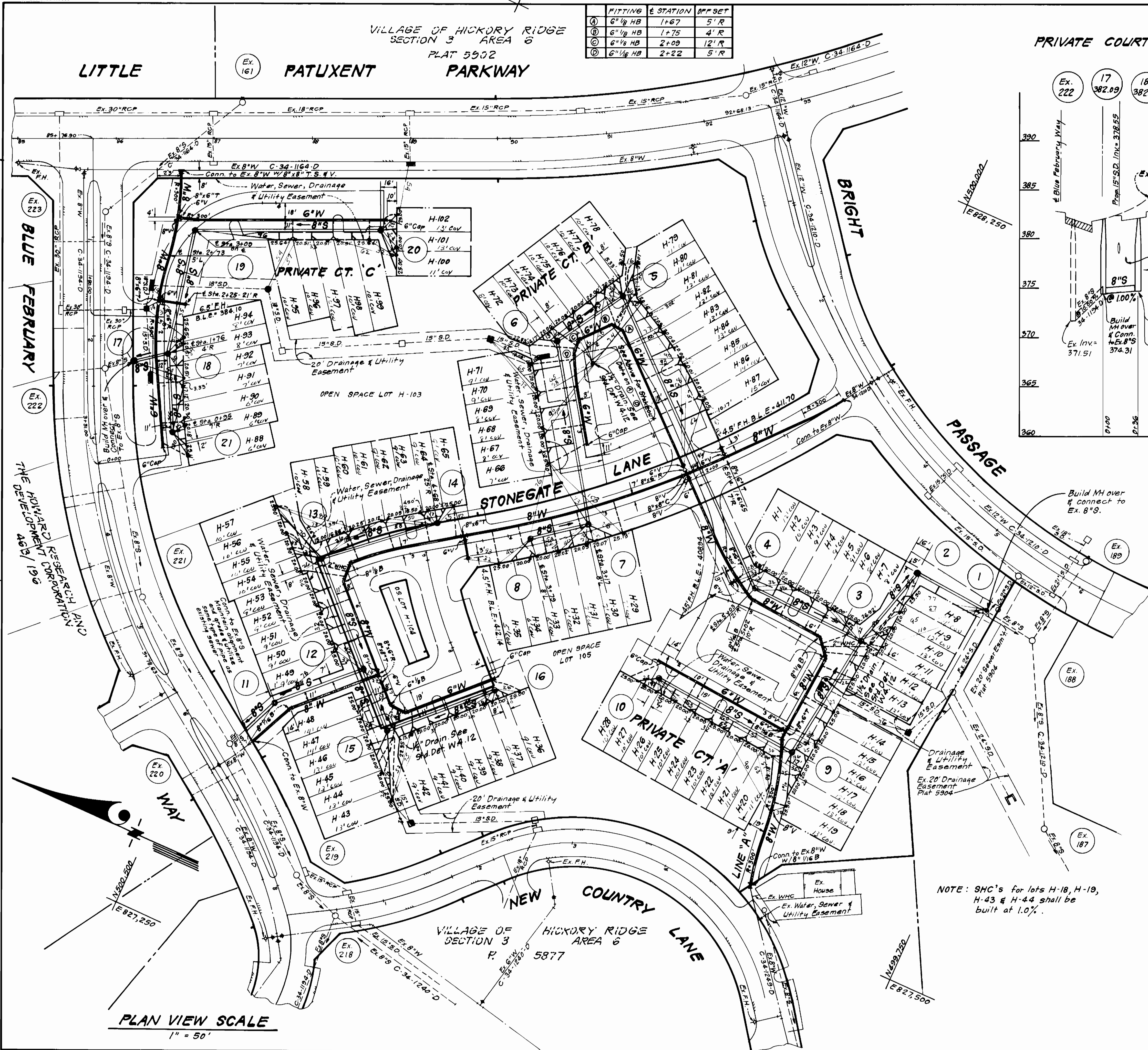
600' SCALE MAP NO. 35 BLOCK NO.

COLUMBIA, VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6, LOTS H-1 THRU H-105
5TH ELECTION DISTRICT -
CONTRACT NO. 34-1427-D

SCALE
1"=600'
SHEET
1 OF 3

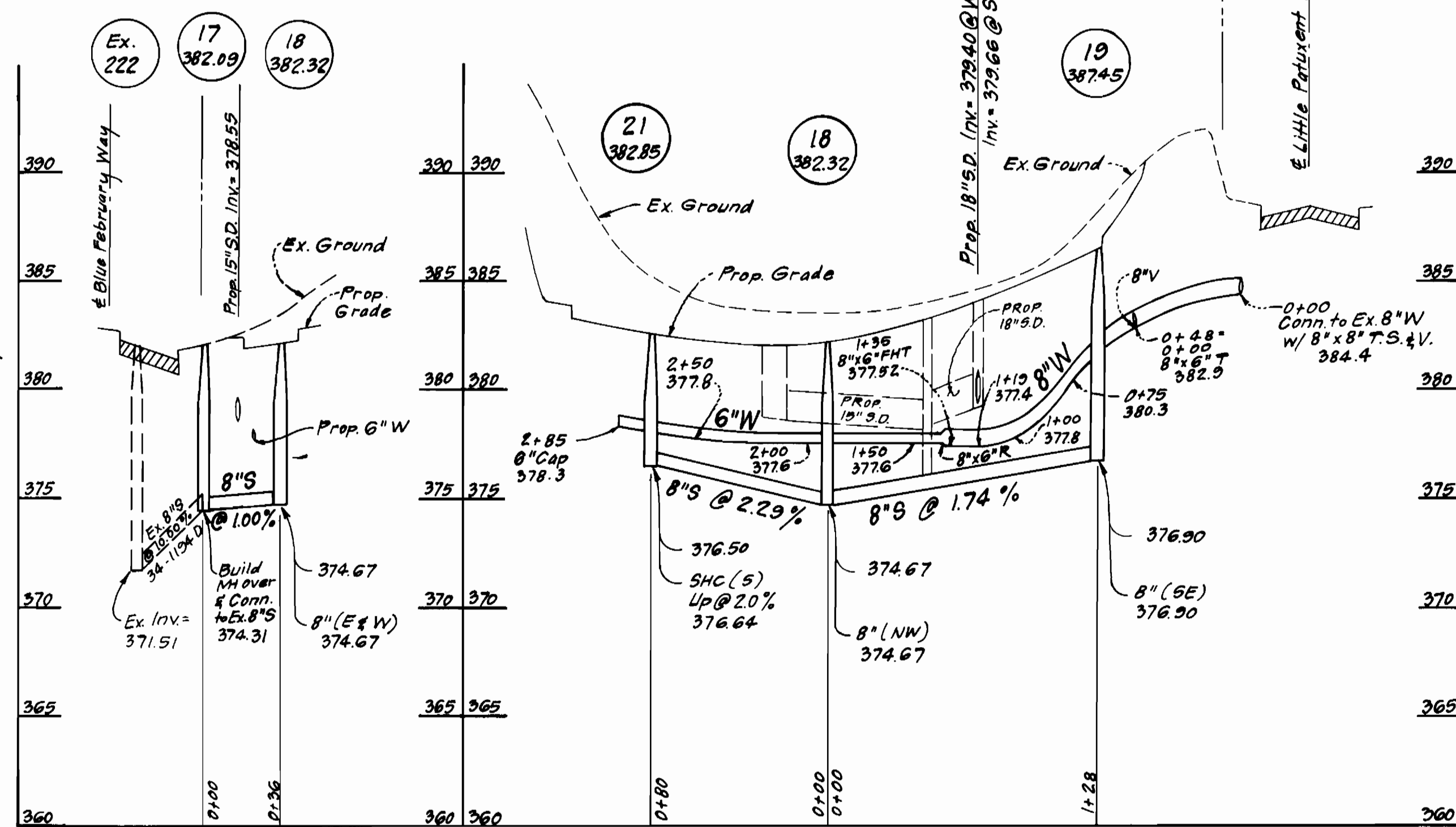
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6
PLAT 5902

| FITTING | E STATION | OFF SET |
|---------|-----------|------------|
| ④ | 6" 1/2 HB | 1+67 5' R |
| ⑤ | 6" 1/2 HB | 1+75 4' R |
| ⑥ | 6" 1/2 HB | 2+09 12' R |
| ⑦ | 6" 1/2 HB | 2+22 5' R |

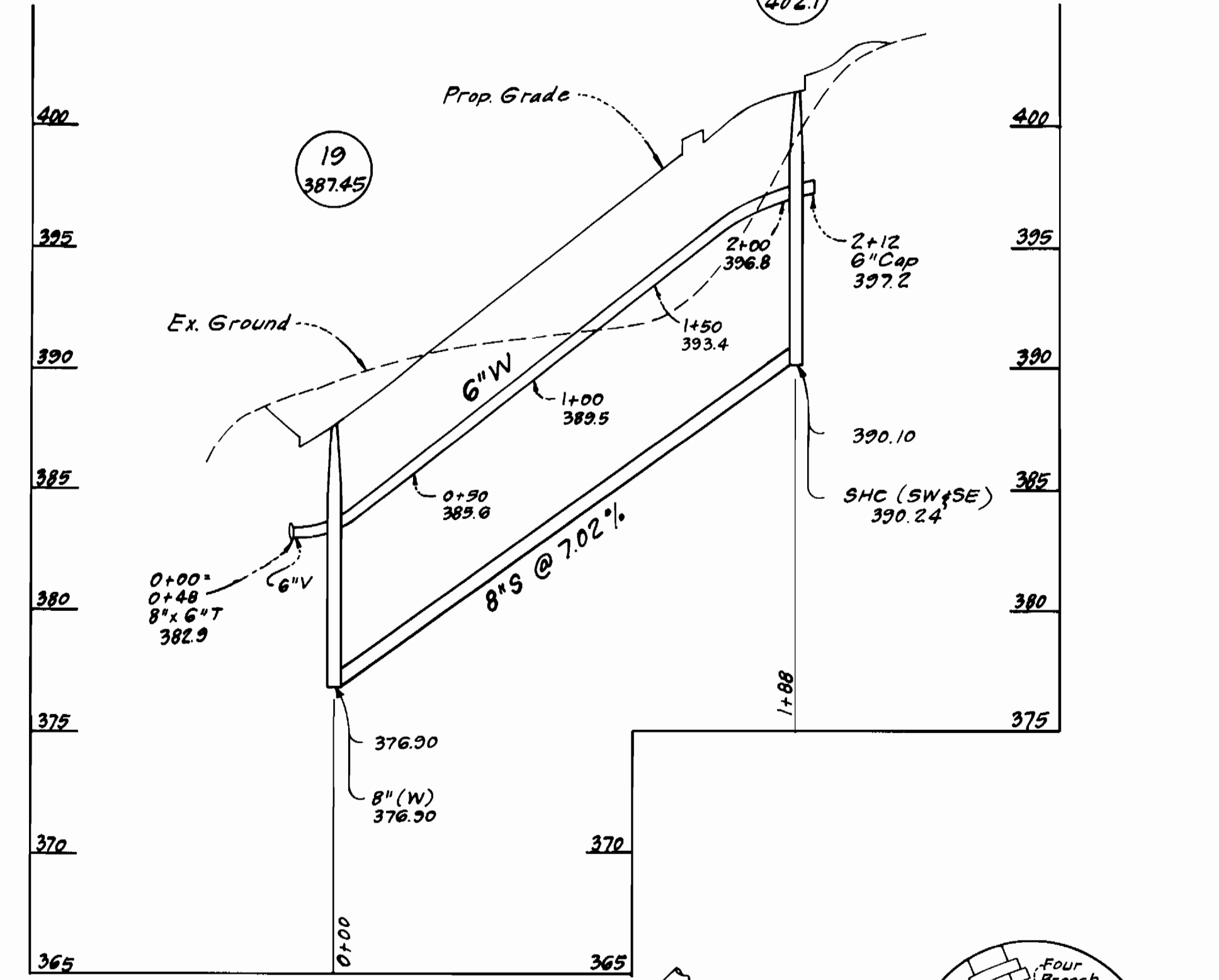


PRIVATE COURT "C"

PRIVATE COURT "C"

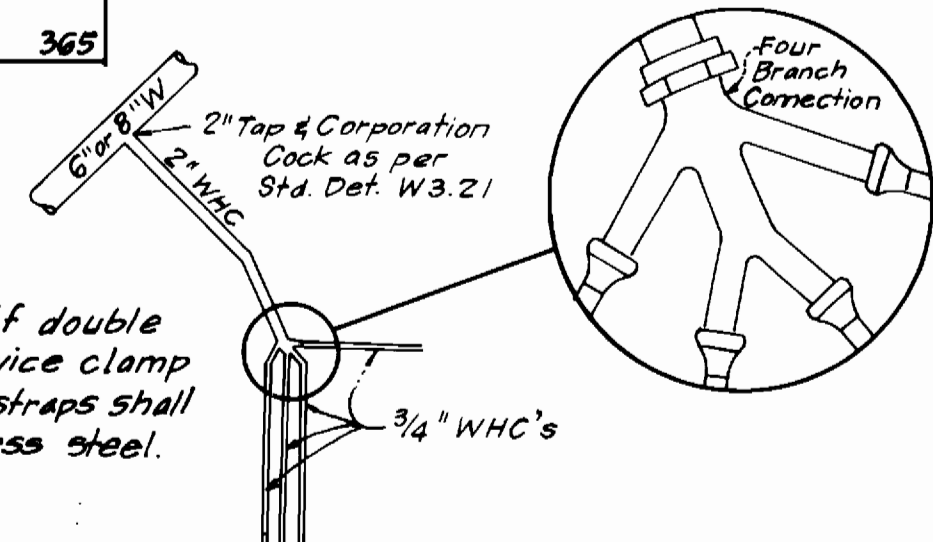


PRIVATE COURT "C"



PROFILE SCALE

HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



4-WAY WHC DETAIL

(Lots H-8-H-11, H-43-H-46, H-55-H-58 & H-78-H-81)
NO SCALE

NOTE: SHC's for lots H-18, H-19, H-43 & H-44 shall be built at 1.0%.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Wood 3-4-86
DIRECTOR OF PUBLIC WORKS DATE

William H. Brown 3-4-86
CHIEF, BUREAU OF ENGINEERING DATE

William H. Brown 3-4-86
CHIEF, LAND DEVELOPMENT DIV. DATE

CFB CLARK · FINEPROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE, SILVER SPRING, MARYLAND 20904
(301) 593-3400



| | | | |
|--------------|--------|----------|------|
| DES: C.K.G. | BY NO. | REVISION | DATE |
| DRN: V.L.M. | | | |
| CHK: C.K.G. | | | |
| DATE: 1-7-86 | | | |

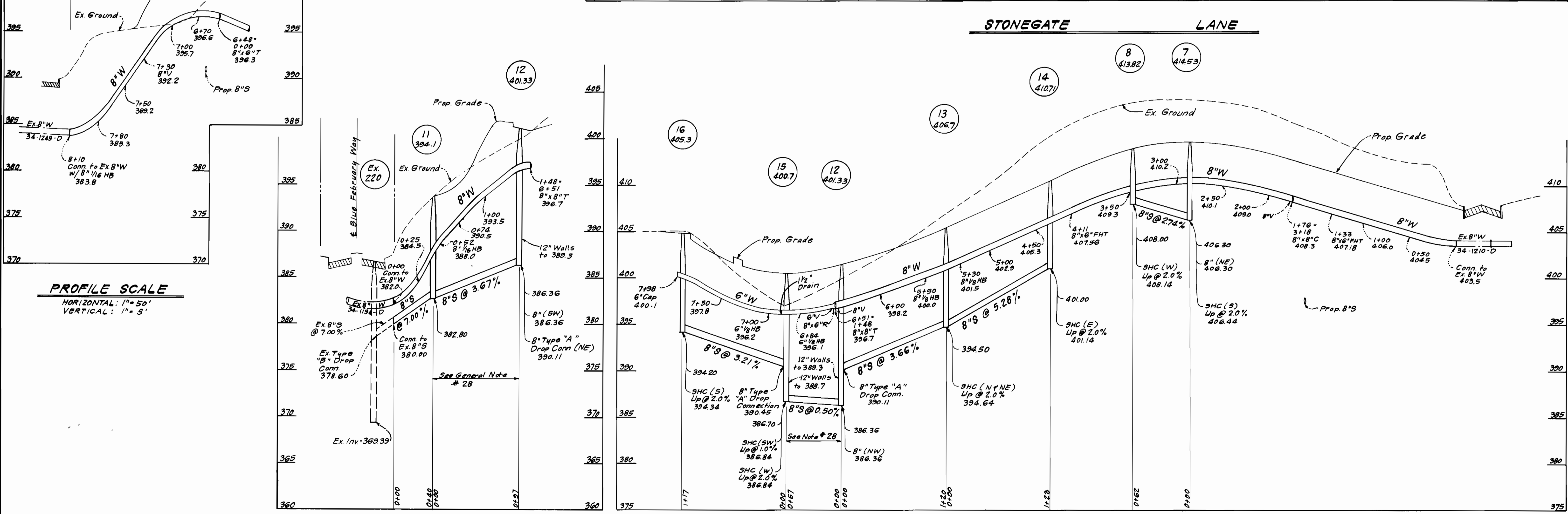
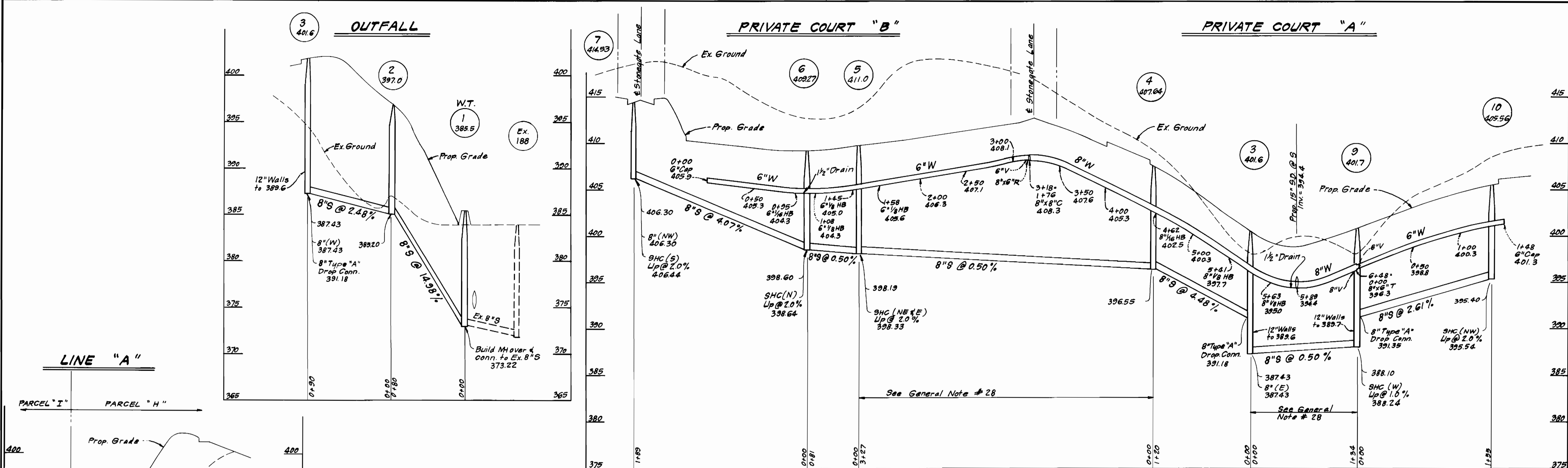
PLAN & PROFILES OF
WATER & SEWER MAINS

DATE 600 SCALE MAP NO. 35 BLOCK NO.

COLUMBIA, VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6, LOTS H-1 THRU H-105
5TH ELECTION DISTRICT
CONTRACT NO. 34-1427-D

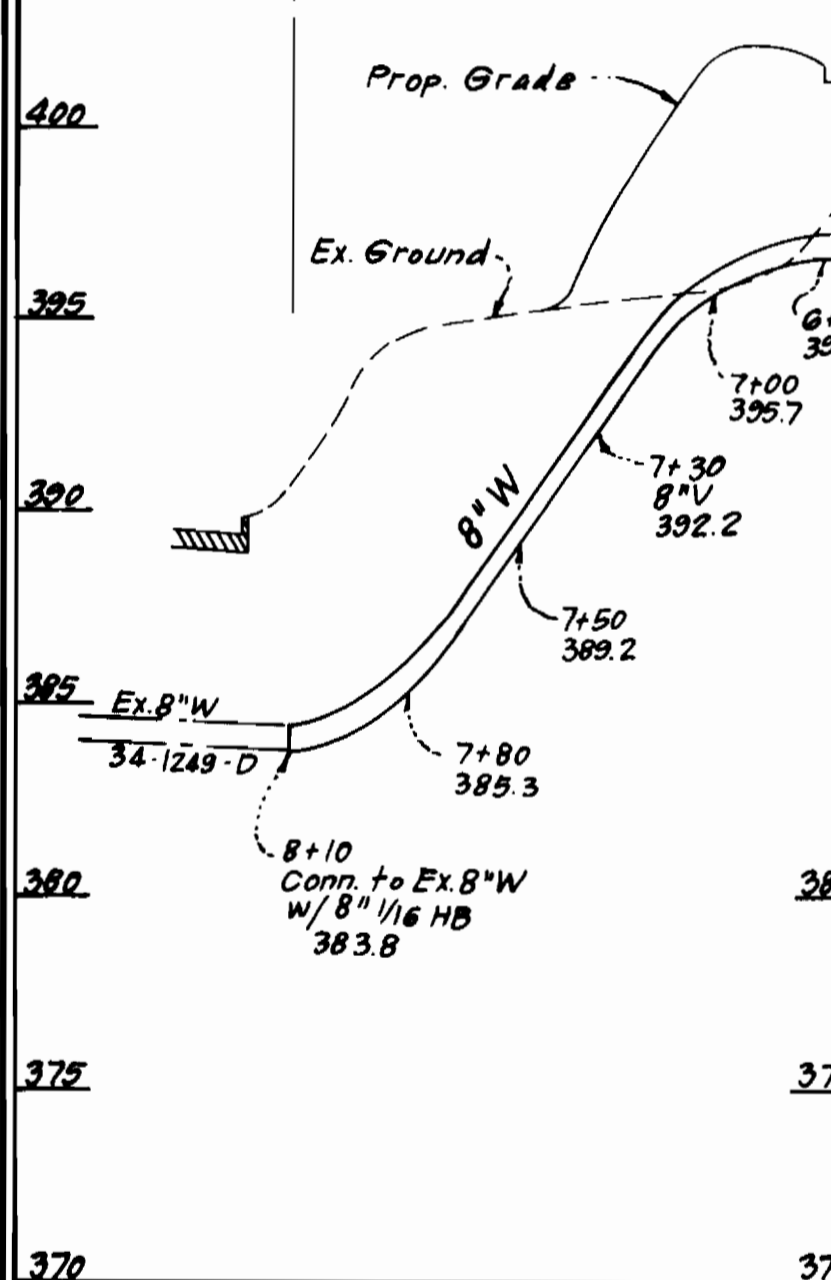
SCALE
AS SHOWN

SHEET
2 OF 3



LINE "A"

PARCEL "I" PARCEL "H"



PROFILE SCALE

HORIZONTAL: 1" = 50'

VERTICAL: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert W. Gump 3-6-86
DIRECTOR OF PUBLIC WORKS DATE

Robert W. Gump 2/29/86
CHIEF, BUREAU OF UTILITIES DATE

Robert W. Gump 3-6-86
CHIEF, BUREAU OF ENGINEERING DATE

Robert W. Gump 3-6-86
CHIEF, LAND DEVELOPMENT DIV. DATE

CFB CLARK · FINEPROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
(301) 593-3400



| | | | |
|--------------|-----------|------|-------|
| DES: C.K.G. | | | |
| DRN: V.L.M. | | | |
| CHK: C.K.G. | | | |
| DATE: 1-7-86 | BY: | NO.: | |
| | REVISION: | | DATE: |

PROFILES OF
WATER & SEWER MAINS

600' SCALE MAP NO. 35 BLOCK NO.

COLUMBIA, VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6, LOTS H-1 THRU H-105
5TH ELECTION DISTRICT
CONTRACT NO. 34-1427-D

SCALE
AS SHOWN

SHEET
3 OF 3