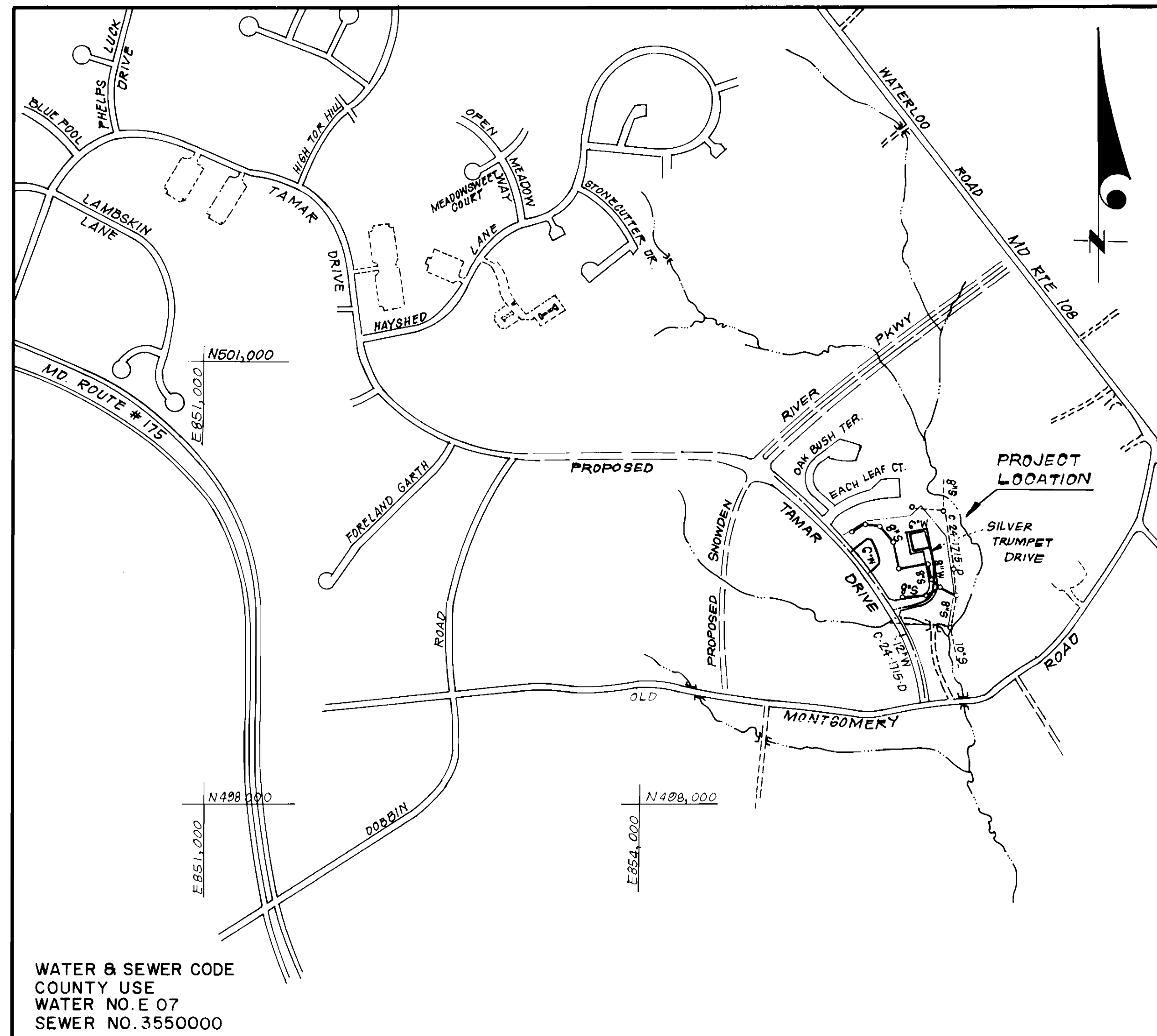


SEWER HOUSE CONNECTION TABLE					
LOTS	Inv. @ E	Min. C.	LOTS	Inv. @ E	Min. C.
6-1/6-2	370.4	373.4	6-44/6-45	361.5	364.7
6-3/6-4	369.4	372.5	6-46/6-47	360.8	363.9
6-5/6-6	368.4	371.5	6-48/6-49	360.4	363.6
6-7/6-8	363.7	366.8	6-50/6-51	353.2	362.4
6-9/6-10	362.0	365.1	6-52/6-53	358.1	361.2
6-11	360.7	363.7	6-54/6-55	356.7	359.9
6-12/6-13	358.2	361.3	6-56/6-57	355.2	358.8
6-14/6-15	357.6	360.7	6-58/6-59	355.2	358.7
6-16/6-17	357.1	360.2	6-60/6-61	353.7	357.0
6-18/6-19	357.9	361.0	6-62/6-63	350.2	353.8
6-20/6-21	354.6	357.7	6-64/6-65	345.0	348.3
6-22/6-23	353.0	356.1	6-66/6-67	344.8	348.0
6-24/6-25	351.1	354.3	6-68/6-69	344.3	347.5
6-26/6-27	348.2	351.4	6-70/6-71	343.8	347.1
6-28/6-29	349.6	352.7	6-72/6-73	345.9	349.5
6-30/6-31	351.3	354.5	6-74/6-75	346.6	349.9
6-32/6-33	353.6	356.7	6-76/6-77	347.1	350.6
6-34/6-35	354.4	357.5	6-78/6-79	342.5	345.6
6-36/6-37	355.2	358.3	6-80/6-81	343.4	346.5
6-38/6-39	357.8	360.9	6-82/6-83	344.0	347.1
6-40/6-41	358.4	361.5	6-84/6-85	344.5	347.6
6-42/6-43	359.0	362.1			

TYPE OF BUILDING	Townhouses
NO. OF LOTS	85
NO. OF WHC's	85
NO. OF SHC's	67
DRAINAGE AREA	Little Patuxent



VICINITY MAP
SCALE: 1" = 600'

CONTRACT NO. 24-1786-D
VILLAGE OF LONG REACH
SECTION 3 AREA 2

PARCEL G, LOTS G-1 THRU G-87
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F-85-234; Drawing Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

Signature: *[Signature]* DATE: 7/26/88
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: *[Signature]* DATE: 7/26/88
Howard S.C.D.

- 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 and Howard County Design Manual, Volume IV. The Contractor shall have Volume IV 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 - Underground Damage Control - 859-9004
 - Baltimore Gas & Electric Company - Contractor Services - 850-4620
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
 - "Miss Utility" - 1-800-257-7777
 - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
 - Bureau of Utilities Howard County - 992-2366
 - Colonial Pipeline Company - 795-1390
 - Trees 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. Class 52 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.
 - 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'.
 - Manholes designated thus: WT, shall have a Watertight Frame and Cover.
 - All DIP fitting shall be in accordance with AWWA specification C-153 Ductile Iron Compact Fittings, 3 inch through 12 inch for water and other liquids.

QUANTITIES			
ITEM	EST'D	AS BUILT	MATERIAL / SUPPLIER
8" W	807 LF	616	BELAIR ROAD SUPPLY
6" W	866 LF	804	
8" S	1,281 LF	1208	NATIONAL PIPE
6" SHC	945 LF	901	NATIONAL PIPE
2" WHC	30 LF		HOWELL METALS / BELAIR ROAD SUPPLY
1" WHC	485 LF		HOWELL METALS / BELAIR ROAD SUPPLY
3/4" WHC	970 LF		HOWELL METALS / BELAIR ROAD SUPPLY
F.H.	2 EA	2	BINGHAM & TAYLOR / BELAIR ROAD SUPPLY
4'-0" DIA MH	10 EA		
6" V (EXCL. FH)	2 EA	2	MUELLER COMPANY / BELAIR ROAD SUPPLY

**WATER
AS BUILTS**

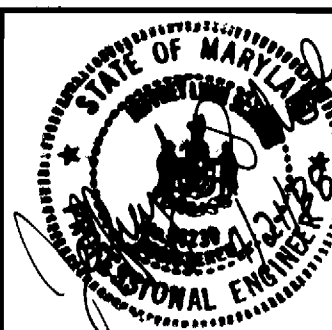
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE: 7-22-88
CHIEF, BUREAU OF UTILITIES

CHIEF, BUREAU OF ENGINEERING DATE: 7-27-88
CHIEF, LAND DEVELOPMENT DIV.

CFS CLARK - FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: JTR			
DRN: JTR			
CHK: CCM			
DATE: 4-21-88			
BY: NO.		REVISION	DATE

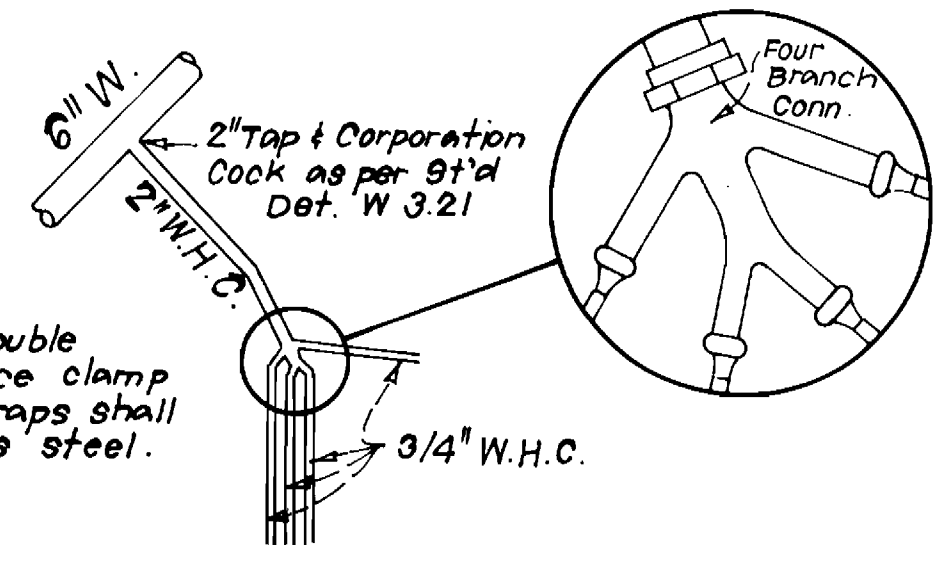
TITLE SHEET

600' SCALE MAP NO. 37 BLOCK NO.

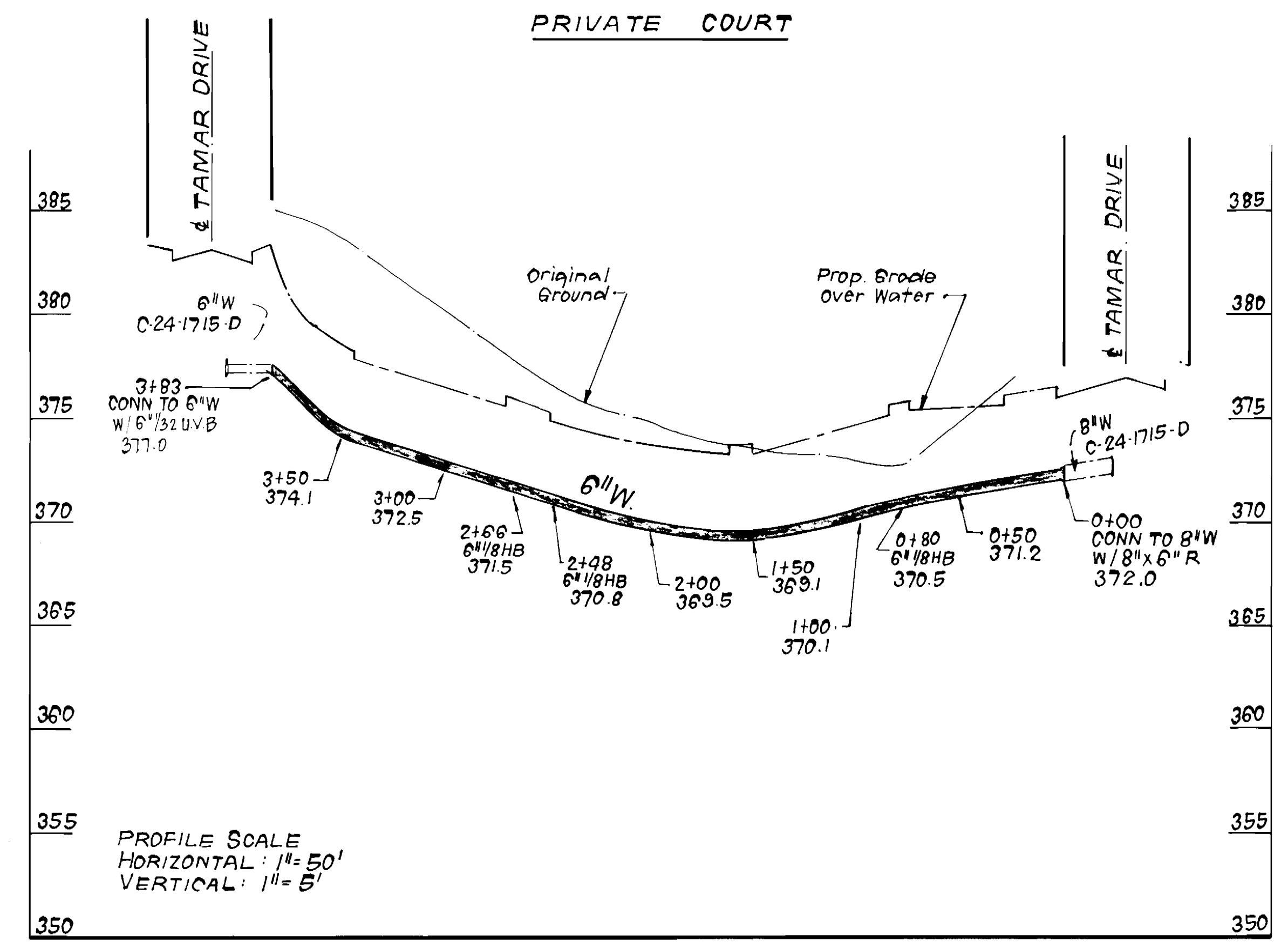
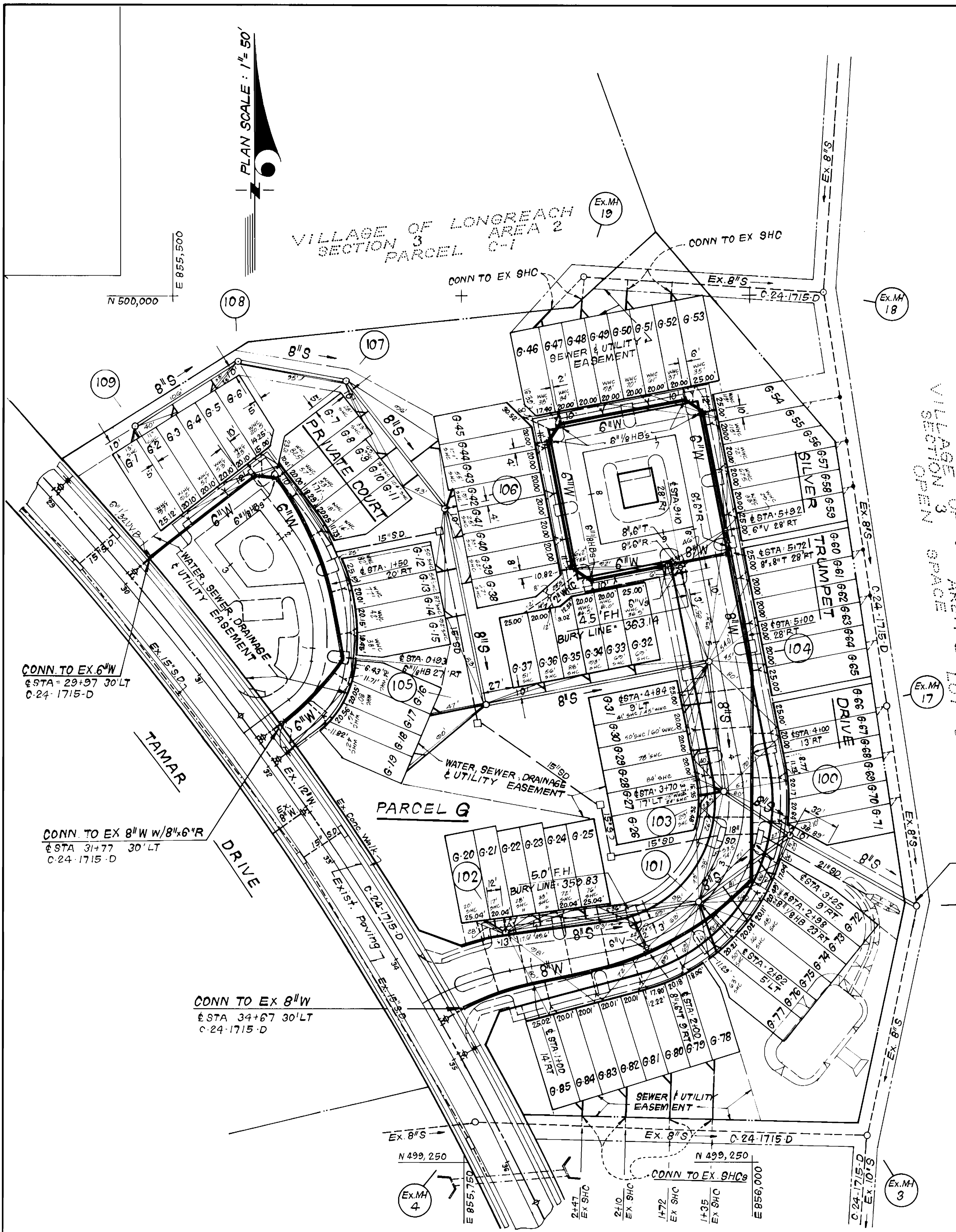
COLUMBIA
VILLAGE OF LONG REACH
SECTION 3 AREA 2
PARCEL G LOTS G-1 THRU G-87
6TH ELECTION DISTRICT
CONTRACT NO. 24-1786-D

SCALE AS SHOWN
SHEET 1 OF 3

PLAN SCALE: 1"=50'



4-WAY W.H.C. DETAIL
LOTS G-35 THROUGH G-38
NO SCALE



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 7-27-88
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 7-27-88
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 7-27-88
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 7/26/88
CHIEF, LAND DEVELOPMENT DIV. DATE

CF CLARK, FINEFROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: JTR			
DRN: JTR			
CHK: CCM			
DATE: 4.21.88			
BY NO.		REVISION	DATE

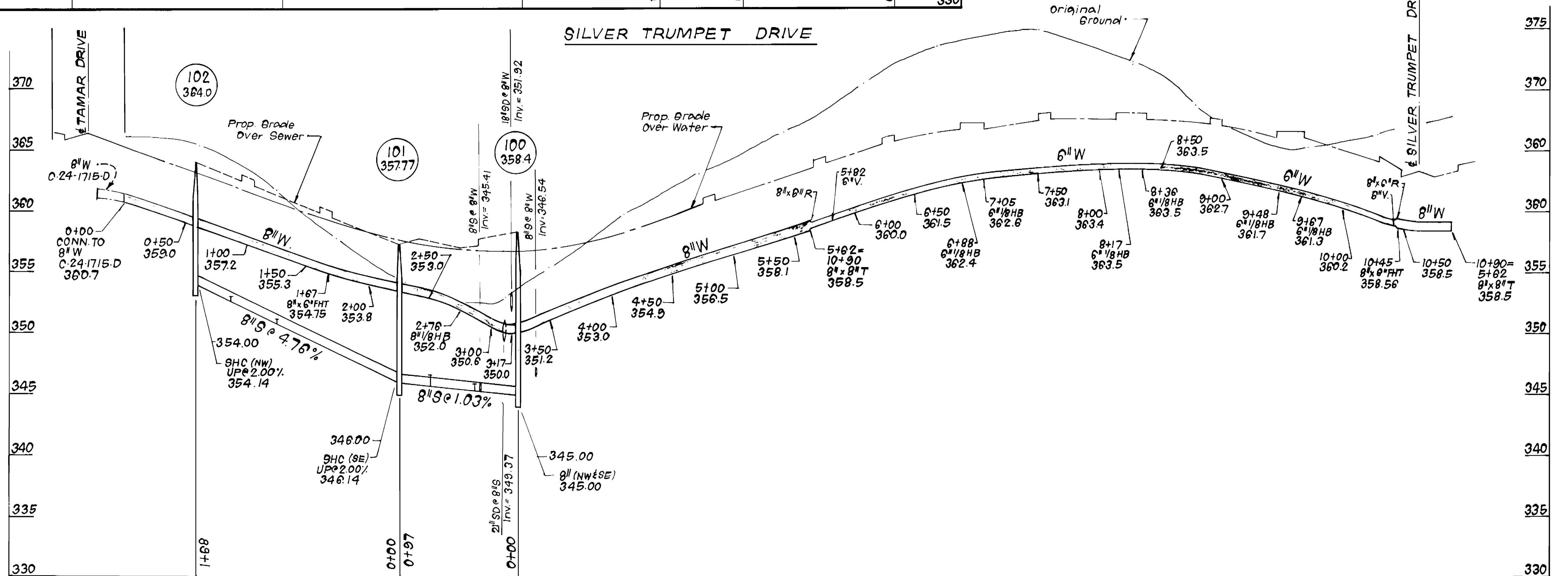
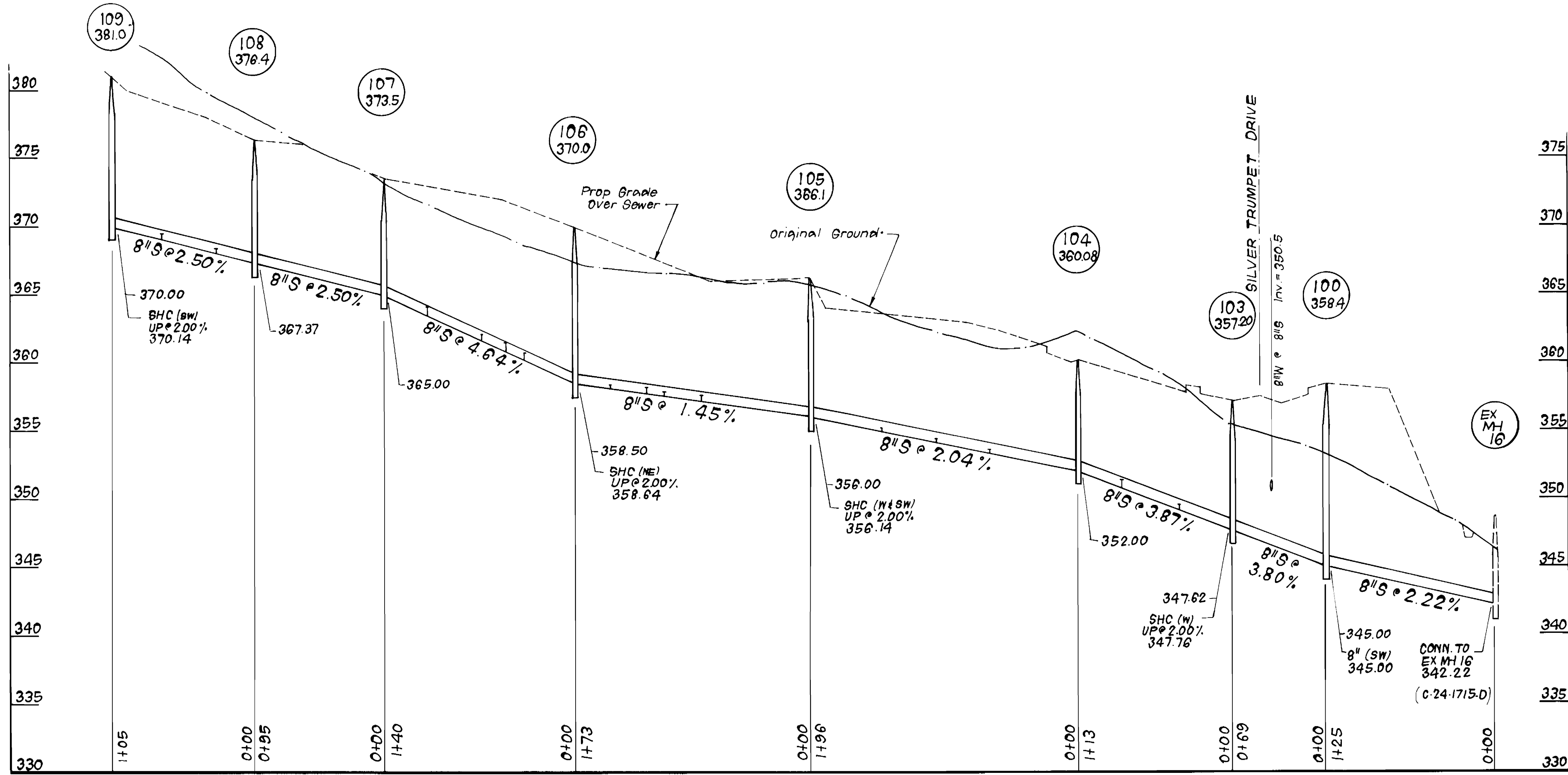
PLAN & PROFILES OF
WATER & SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO.

COLUMBIA
VILLAGE OF LONGREACH
SECTION 3 AREA 2
PARCEL G LOTS G-1 THRU G-87
6TH ELECTION DISTRICT
CONTRACT NO. 24-1786-D

SCALE
AS SHOWN

SHEET
2 of 3



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James R. ... 2/22/08
 DIRECTOR OF PUBLIC WORKS DATE

William B. ... 7/22/08
 CHIEF, BUREAU OF ENGINEERING DATE

CFE CLARK - FINEPROCK & SACKETT, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 7135 MINSTREL WAY COLUMBIA MARYLAND 21045
 (301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: JTR					
DRN: JTR					
CHK: C.C.M.					
DATE: 4-21-08	BY: NO.	REVISION	DATE		

PROFILES OF
 WATER & SEWER MAINS
 600' SCALE MAP NO. 27 BLOCK NO. _____

COLUMBIA
 VILLAGE OF LONGREACH
 SECTION 3 AREA 2
 PARCEL G LOTS G-1 THRU G-87
 6TH ELECTION DISTRICT
 CONTRACT NO. 24-1786-D

SCALE
 AS SHOWN
 SHEET
 3 OF 3