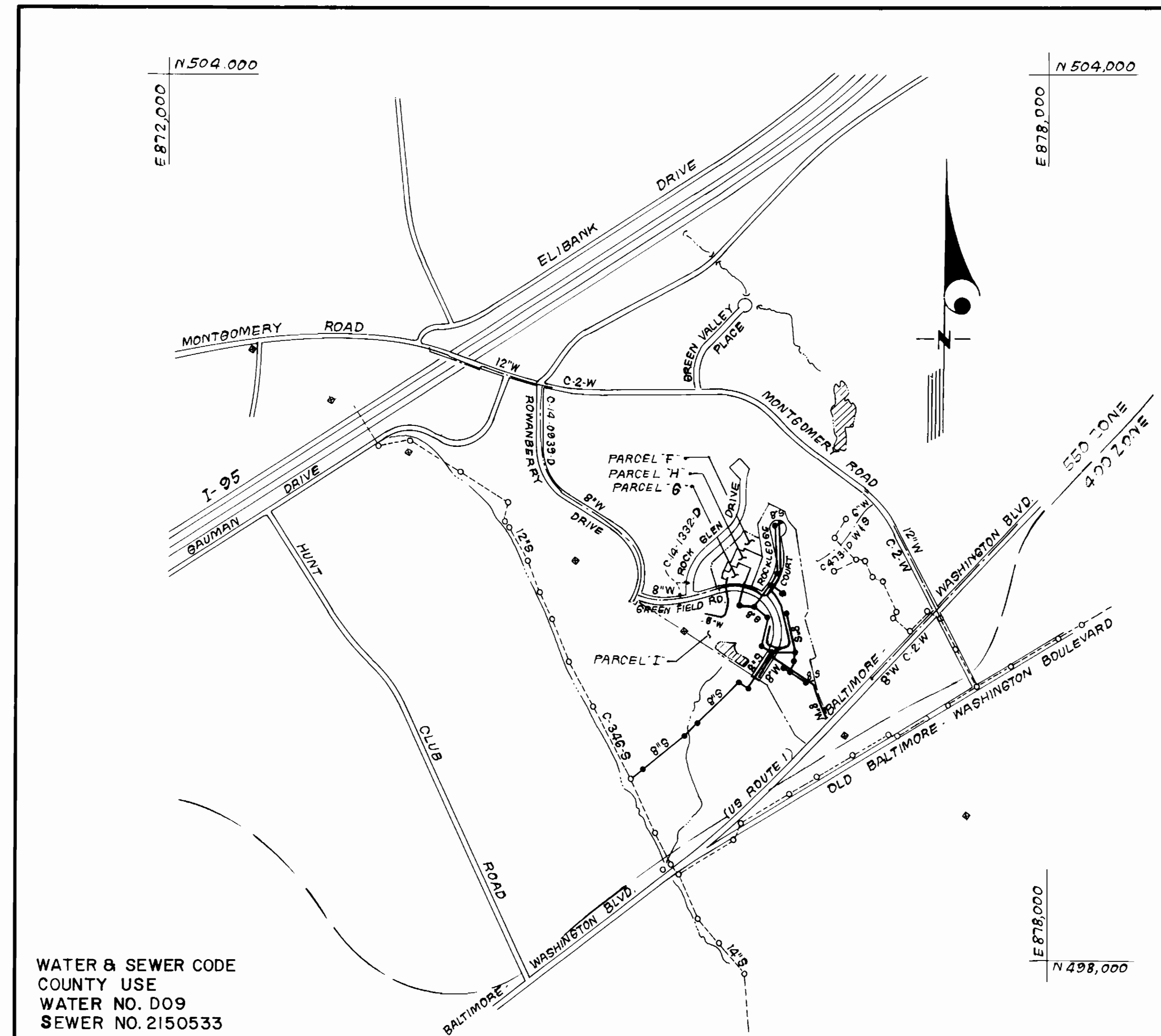


SEWER HOUSE CONNECTION TABLE					
LOTS	Inv. E.	Min. C.	LOTS	Inv. E.	Min. C.
54 & 55	169.7	172.7	92 & 93	173.7	176.7
56 & 57	171.3	174.3	94 & 95	175.7	178.7
58 & 59	173.1	176.2	96 & 97	175.2	178.2
60 & 61	179.1	182.1	98 & 99	172.7	175.6
62 & 63	185.9	188.9	100 & 101	171.2	174.2
64 & 65	188.6	191.6	102	170.1	173.1
66 & 67	191.3	194.3	103 & 104	168.4	171.4
68 & 69	194.0	197.0	105 & 106	166.9	169.9
70	197.2	200.2	107 & 108	165.5	168.5
71 & 72	197.9	200.8	109	164.4	167.4
73 & 74	198.5	201.5	110 & 111	167.6	170.6
75	191.7	194.6	112 & 113	171.0	174.0
76 & 77	189.5	192.5	114 & 115	175.2	178.3
78 & 79	187.0	190.0	116	174.3	177.3
80 & 81	184.5	187.5	117 & 118	173.0	176.0
82 & 83	181.6	184.7	119 & 120	172.0	175.0
84 & 85	179.9	181.9	121	170.8	173.8
86 & 87	174.0	177.0	123 & 124	167.9	170.9
88 & 89	172.6	175.6	125	168.4	171.4
90 & 91	173.1	176.2	126	168.4	171.4
			122	167.6	170.6

TYPE OF BUILDING	Townhouses & Condominiums
Nº OF UNITS	73 Townhouses & 108 Condominiums
Nº OF WHC'S	83
Nº OF SHC'S	87
DRAINAGE AREA	Patapago



WATER & SEWER CODE  
 COUNTY USE  
 WATER NO. D09  
 SEWER NO. 2150533

VICINITY MAP  
 SCALE: 1" = 600'

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 & Ho Co. Design Manual, Volume IX. The contractor shall have a copy of Volume IX 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 - Contract Services - 850-4820
  - Baltimore Gas & Electric Company - Underground Damage Control - 859-9004
  - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
  - "Miss Utility" - 1-559-0100
  - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
  - 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.
- Townhouse water house connections shall be for inside meter settings. Each condominium building shall have a 1/4" water house connection with an outside meter setting. Vault locations are shown thus: □
- 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'.
- For all Copper Water House Connections, utilize flared type fittings only.
- Manholes designated thus: WT shall have Watertight Frames & Covers.

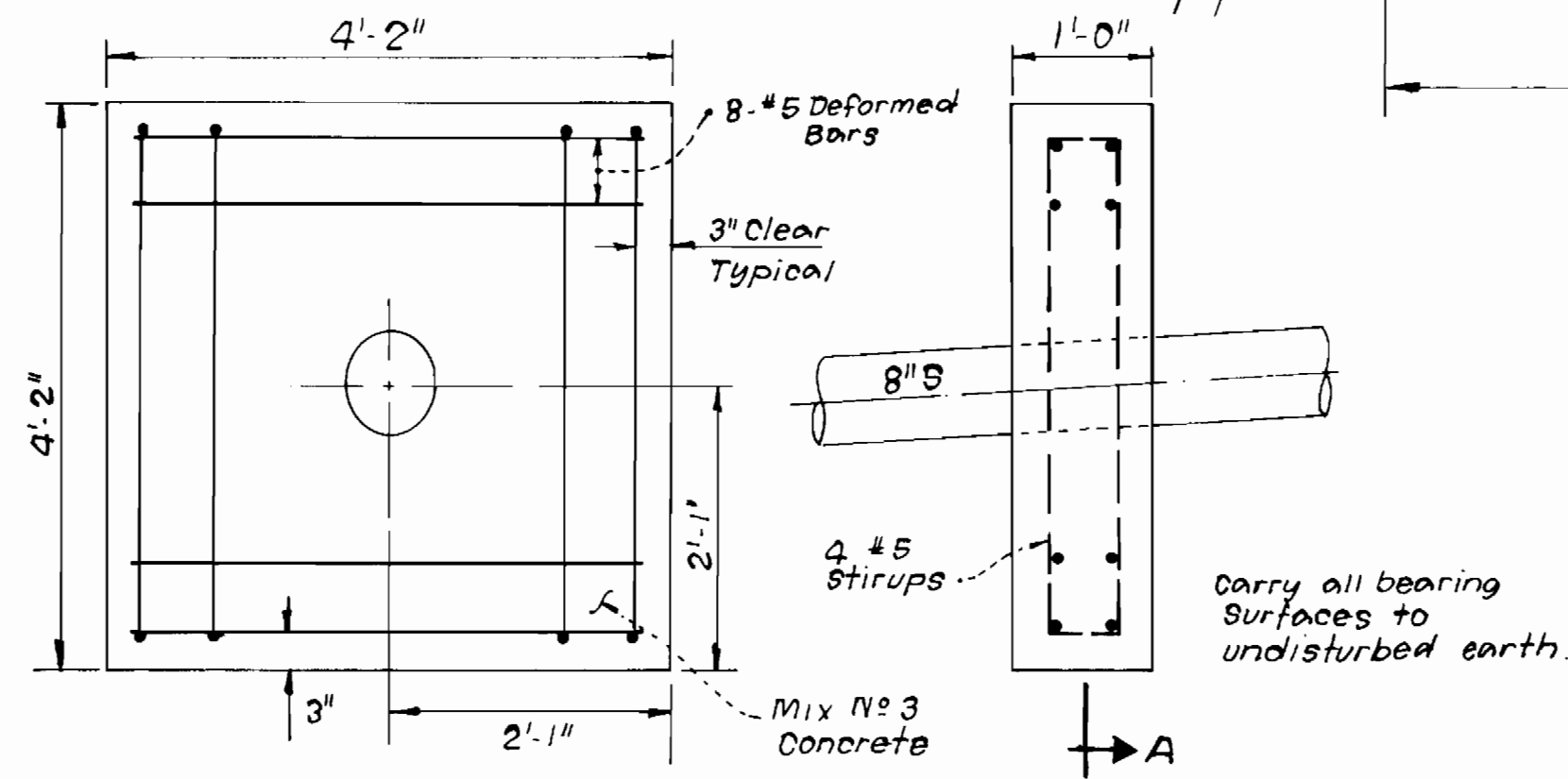
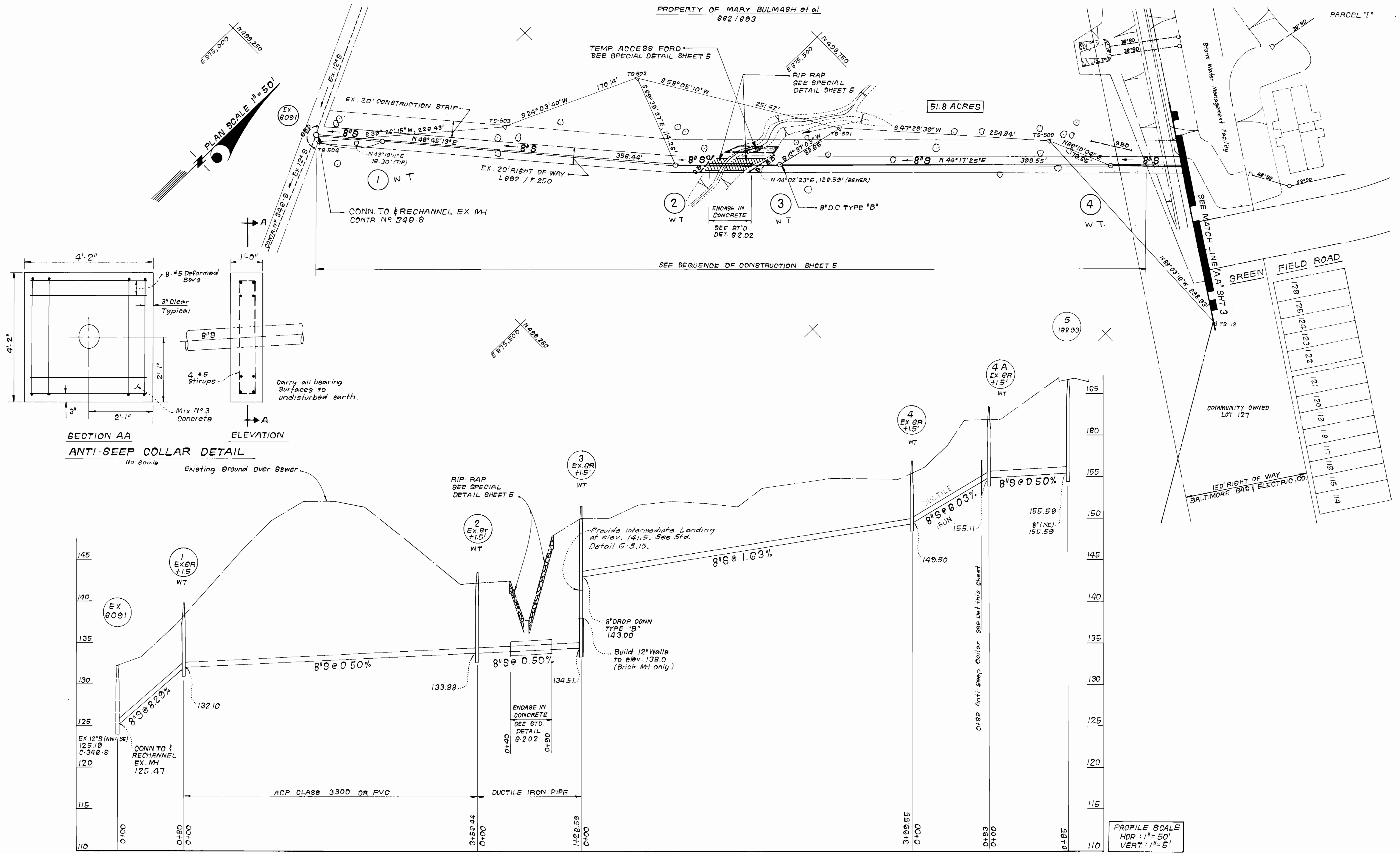
CONTRACT NO. 14-1560-D  
 ROCKBURN COMMONS, SECTION THREE  
 LOTS 54-128 & PARCELS "F"- "I"  
 HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS

ITEM	QUANTITIES		MATERIAL / SUPPLIER
	EST'D	AS BUILT	
8" S	3,925 LF	3683, 12	Water Works, Inc.
4'-0" DIA MH	27 EA	27	Atlantic Concrete Products
8" DC TYPE 'A'	3 EA	3	"
8" DC TYPE 'B'	2 EA	2	"
8" W	2,751 LF	2,716.37	Atlantic Concrete Products
6" W	242 LF	351	"
FH	7 EA	7	Municipal & Contracts Subs
8" V	8 EA	8	"
6" V (exc. FHV)	1 EA	1	"
6" SHC	1,498 LF	1636	Water Works, Inc.
8" SHC	40 LF	40	"
2" WHC	375 LF	436	Municipal & Contracts Subs
1" WHC	700 LF	680	"
3/4" WHC	975 LF	920	"
2' Meter Vault	10 EA	10	B & C Utility Supply

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F-87-23; Drawings 510 of Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.  
 Signature: *[Signature]* DATE: 12-9-86  
 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: 12-7-86  
 Howard S.C.D.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>[Signature]</i> DATE: 12-15-86 Chief, Bureau of Engineering: <i>[Signature]</i> DATE: 12-15-86 Chief, Bureau of Utilities: <i>[Signature]</i> DATE: 12-15-86 Chief, Land Development Div.: <i>[Signature]</i> DATE: 12-15-86	CLARK - FINEPROCK & SACKETT ENGINEERS - PLANNERS - SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400	DES: JTR DRN: JTR CHK: CCM DATE: 9-15-86	VLM 1 Revised N° of Condominium Units 2-3-87	TITLE SHEET	ROCKBURN COMMONS SECTION THREE LOTS 54-128 & PARCELS "F"- "I" 1ST ELECTION DISTRICT CONTRACT NO. 14-1560-D	SCALE AS SHOWN SHEET 1 OF 5
			VLM 2 Revised "Quantities" Table 2-6-87			



SECTION AA  
ANTI-SEEP COLLAR DETAIL  
No Scale

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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Clark* 12-15-86  
DIRECTOR OF PUBLIC WORKS DATE

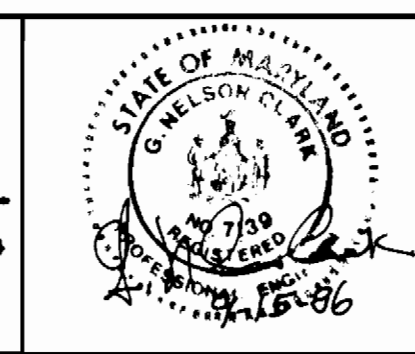
*Robert M. Burman* 12-15-86  
CHIEF, BUREAU OF UTILITIES DATE

*William E. Sackett* 12-15-86  
CHIEF, BUREAU OF ENGINEERING DATE

*William E. Sackett*  
CHIEF, LAND DEVELOPMENT DIV. DATE

**CFE** CLARK · FINEPROCK & SACKETT  
ENGINEERS · PLANNERS · SURVEYORS

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



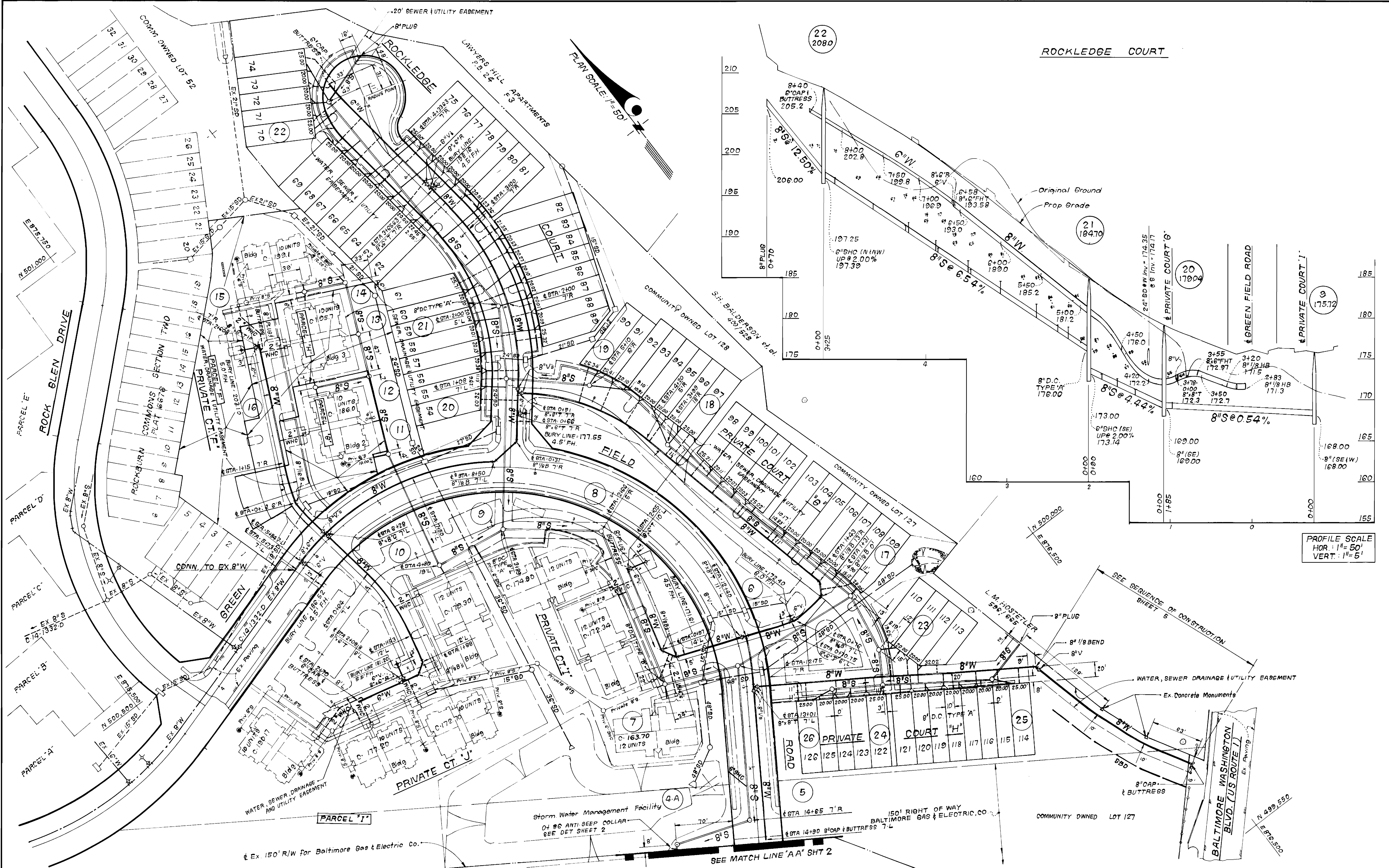
DES: JTR	VLM 1	Corrected drafting error	2-6-87
DRN: JTR			
CHK: CCM			
DATE: 0-15-86	BY NO.	REVISION	DATE

PLAN & PROFILES OF  
WATER & SEWER MAINS

600' SCALE MAP NO. 38 BLOCK NO.

ROCKBURN COMMONS  
SECTION THREE  
LOTS 54-128 & PARCELS "F" - "I"  
1ST ELECTION DISTRICT  
CONTRACT NO. 14-1560-D

SCALE AS SHOWN  
SHEET 2 OF 5

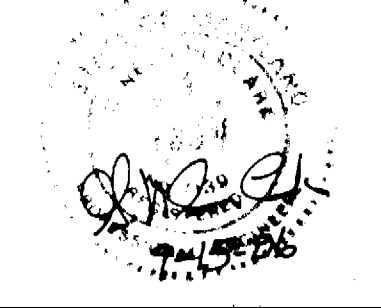


PROFILE SCALE  
 HOR: 1" = 50'  
 VERT: 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James J. ...* 12-15-86  
 DIRECTOR OF PUBLIC WORKS DATE  
*Robert M. ...* 12-15-86  
 CHIEF, BUREAU OF UTILITIES DATE

**CFE** CLARK · FINEPROCK & SACKETT  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904  
 (301) 593-3400



DES: JTR	VLM 1	Revised unit numbers in Priv Court "J"	2-3-87
	VLM 2	Revised 1 1/2" W/C to 2" W/C	2-6-87
DRN: JTR	VLM 3	Revised SHC location	3-18-87
	VLM 4	Revised cellar elev. for Bldg. 1 & 2	4-28-87
CHK: CCM			
DATE: 8-15-86	BY: NO.	REVISION	DATE

PLAN & PROFILES OF  
 WATER & SEWER MAINS

ROCKBURN COMMONS  
 SECTION THREE  
 LOTS 54-128 & PARCELS "F"- "I"  
 1ST ELECTION DISTRICT  
 CONTRACT NO. 14-1560-D

SCALE  
 AS SHOWN  
 SHEET  
 3 OF 5



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS      DATE      CHIEF, BUREAU OF ENGINEERING      DATE

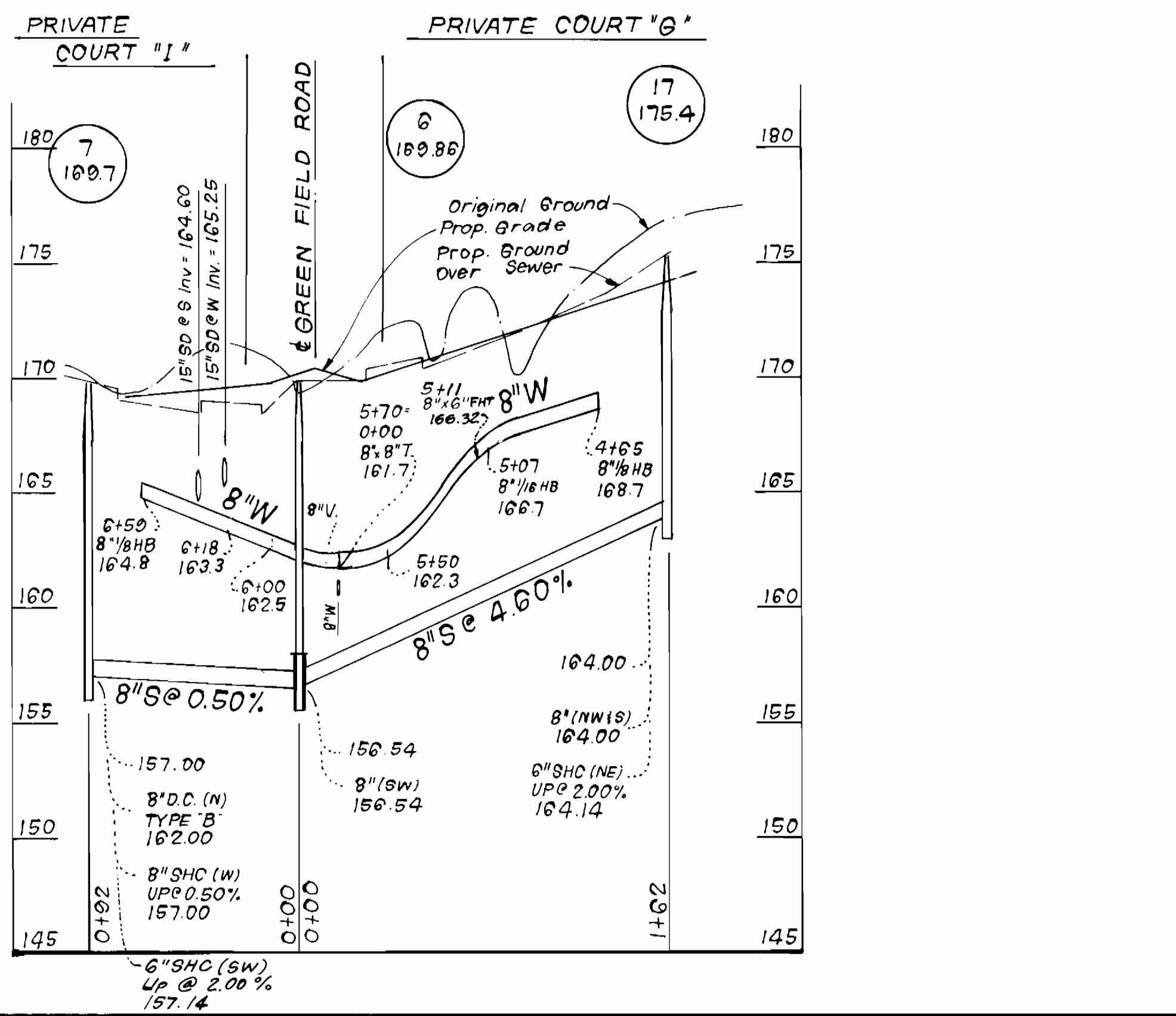
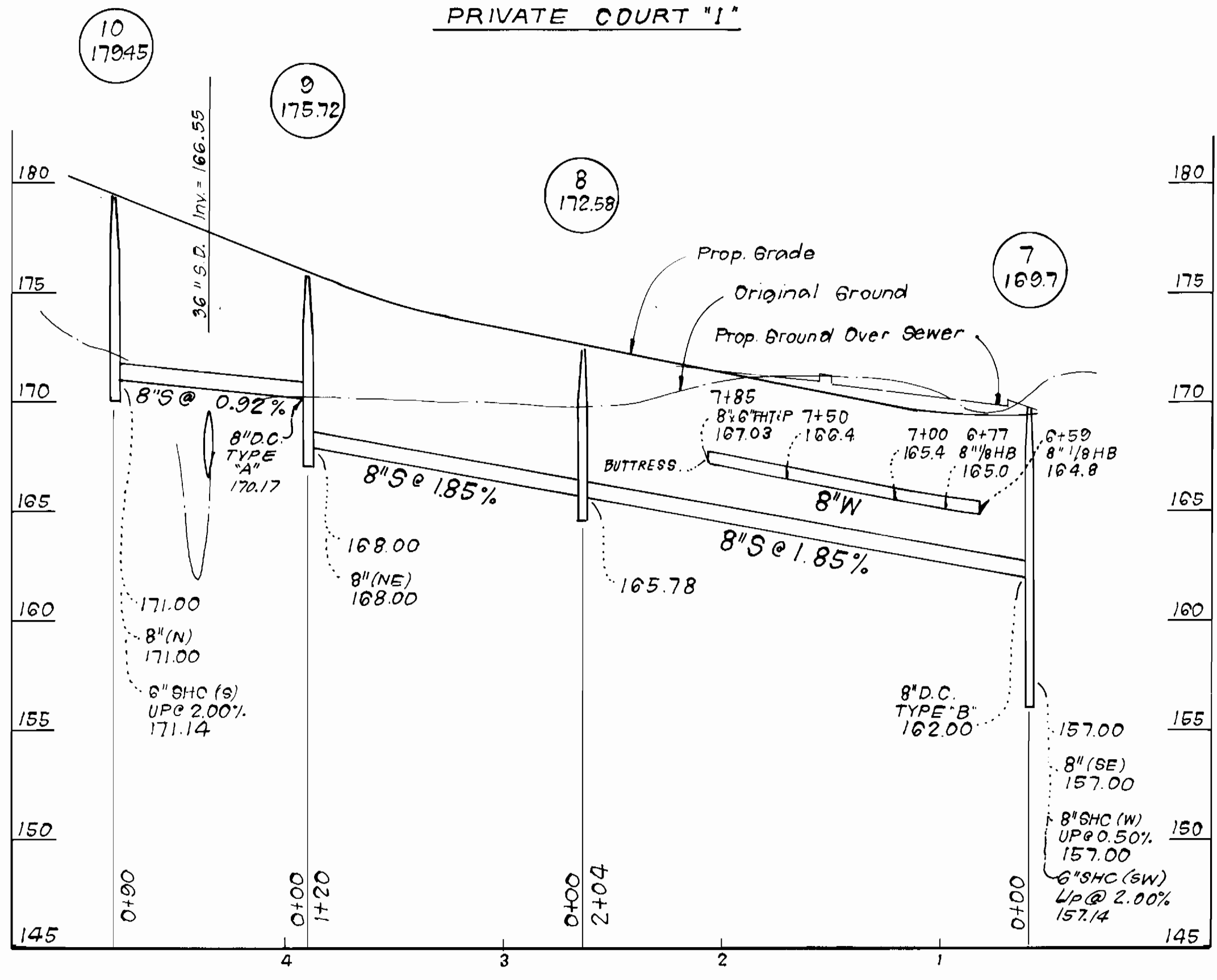
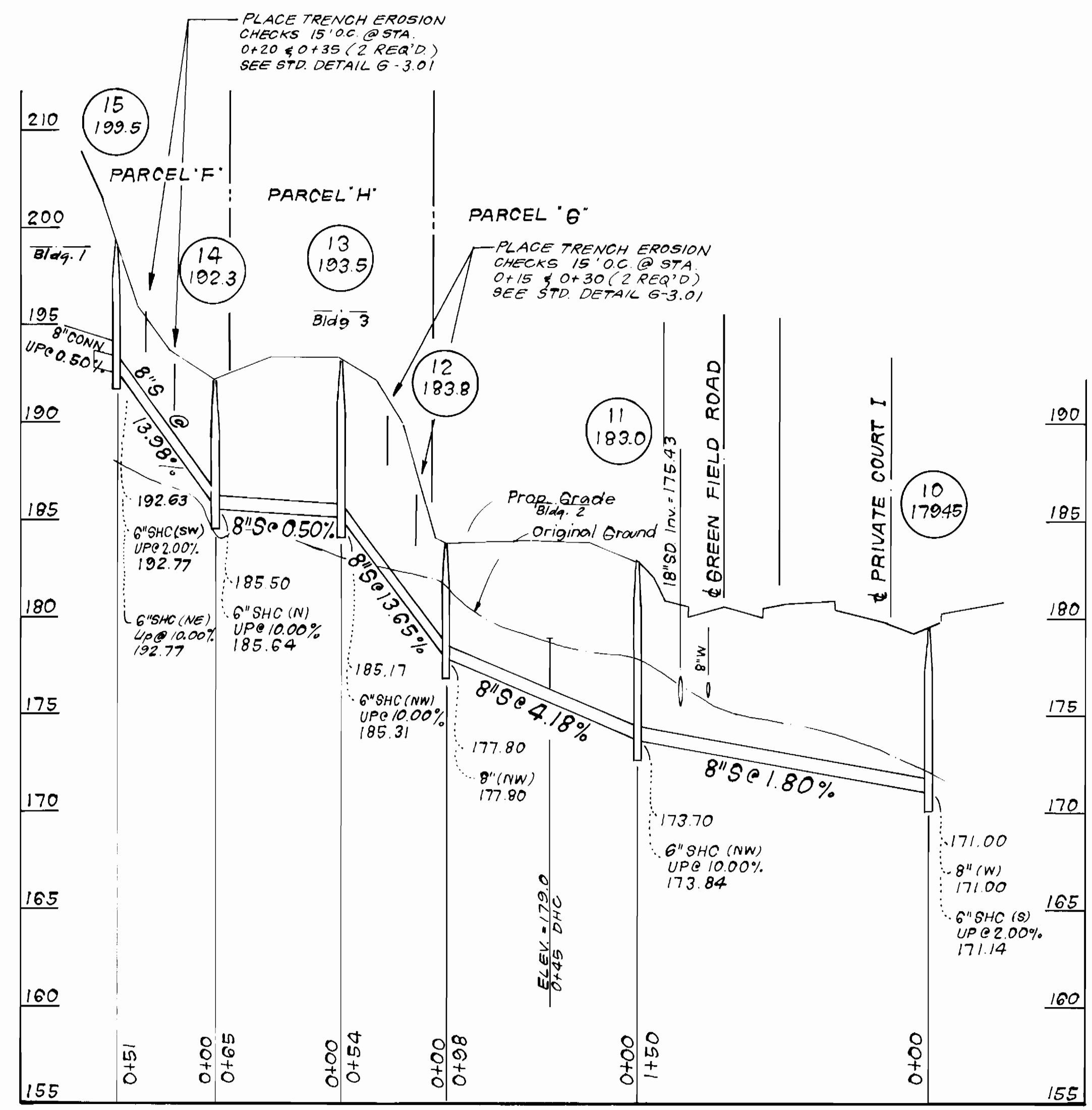
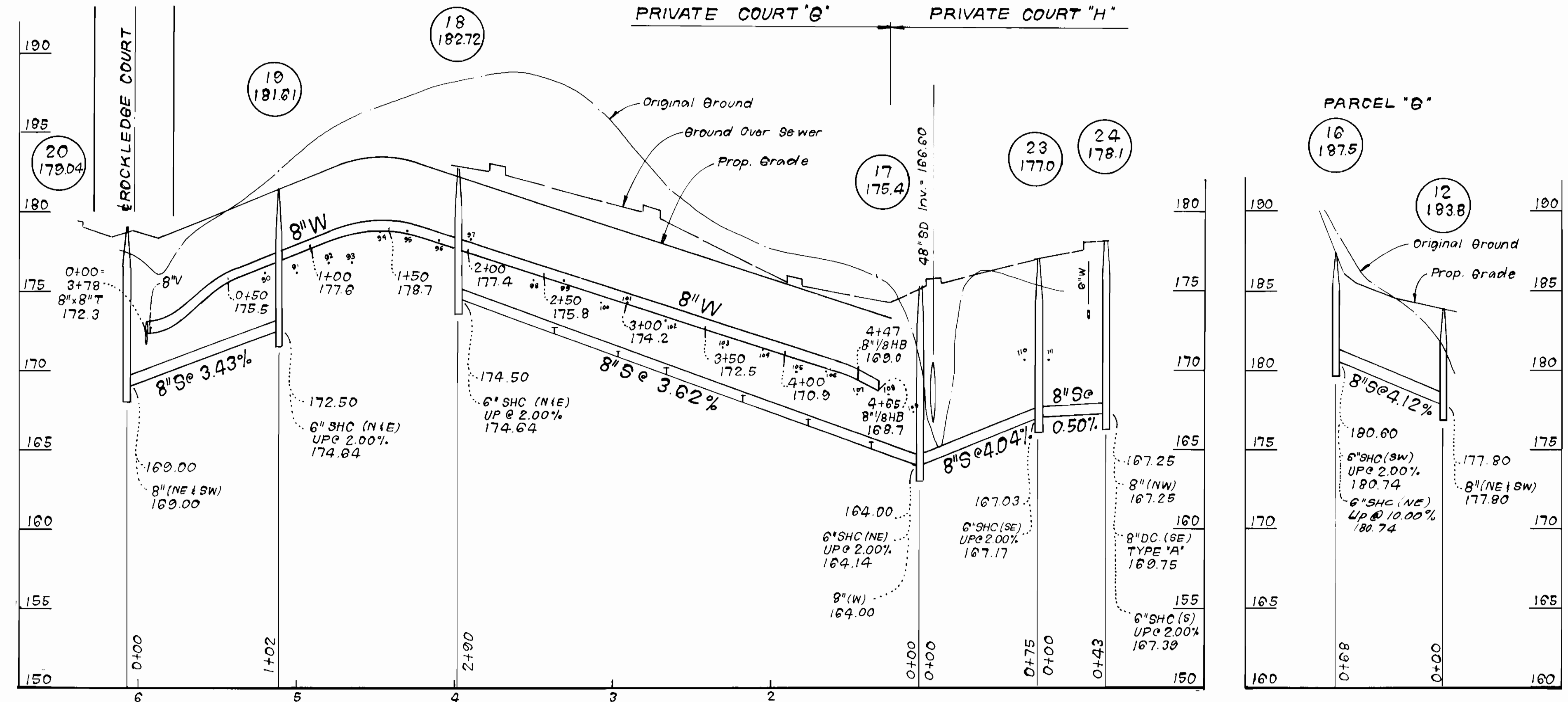
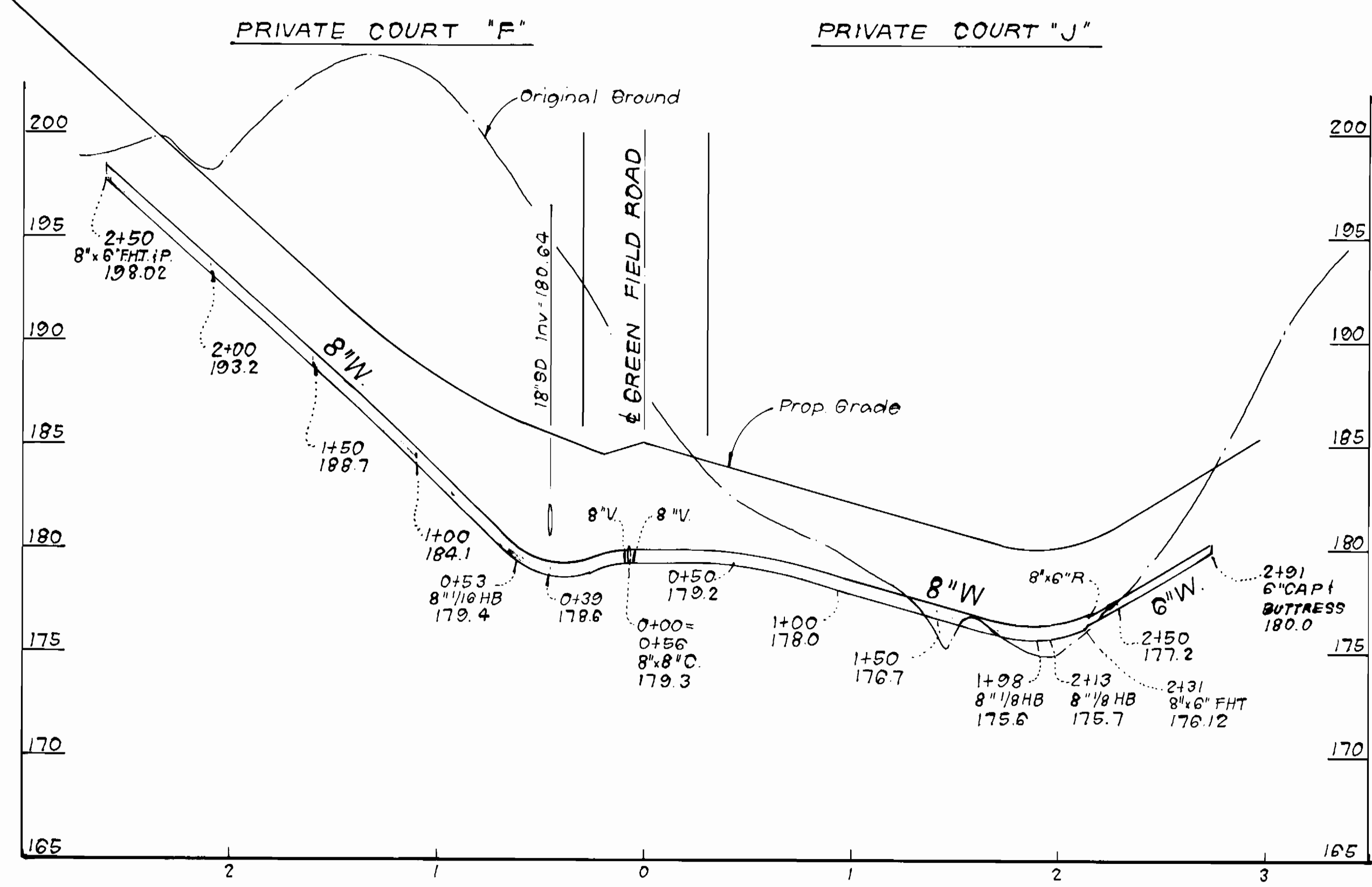
DES:					
DRN:					
CHK:					
DATE:	BY	NO.	REVISION	DATE	600' SCALE MAP NO.      BLOCK NO.

ROCKBURN COMMONS  
SECTION THREE  
LOTS 54-128 & PARCELS "F"- "I"  
1<sup>ST</sup> ELECTION DISTRICT  
CONTRACT NO. 14-1560-D

SCALE  
AS  
SHOWN

SHEET  
3 OF 5

AS-BUILT 12-1-87



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Shaw*  
DIRECTOR OF PUBLIC WORKS  
DATE 12-15-86

*Robert M. Berman*  
CHIEF, BUREAU OF UTILITIES  
DATE 12-15-86

**CFB** CLARK · FINEPROCK & SACKETT  
ENGINEERS · PLANNERS · SURVEYORS  
11315 LOCKWOOD DRIVE, SILVER SPRING, MARYLAND 20904  
(301) 593-3400

*[Signature]*  
DATE 9-15-86

DES: JTR	VLM 1	Revised 8" S bet MH 510 & Court "I"	2-8-87
DRN: JTR	VLM 2	Added SHC out of MH & correct drafting error	3-18-87
	VLM 3	Revised cover & invert elev. for MH 11 - MH 16	4-28-87
CHK: CCM			
DATE: 9-15-86	BY: NO.	REVISION	DATE

PROFILES OF  
WATER & SEWER MAINS

600' SCALE MAP NO. 38 BLOCK NO.

ROCKBURN COMMONS  
SECTION THREE  
LOTS 54-128 & PARCELS "F" - "I"  
1ST ELECTION DISTRICT  
CONTRACT NO. 14-1560-D

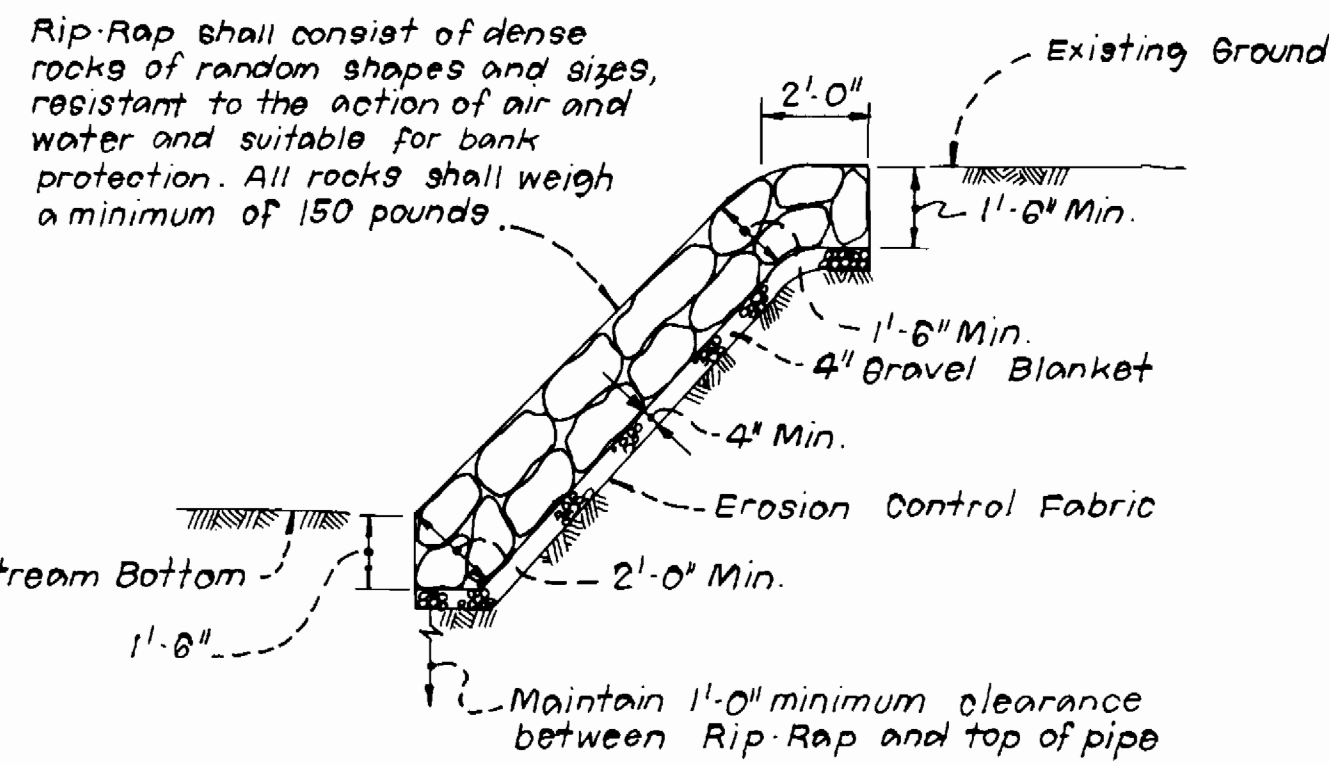
SCALE  
HORIZ: 1" = 50'  
VERT: 1" = 5'

SHEET  
4 of 5

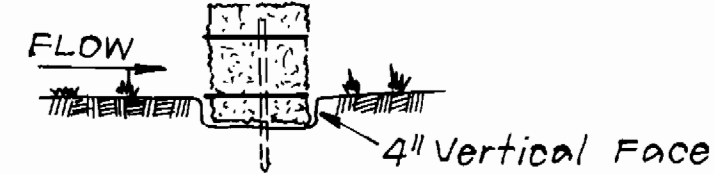
NOTES:

1. Erosion Control Fabric shall be Poly Filter-X as manufactured by Corthage Mills Inc., Erosion Control Division, 124 West 66th Street, Cincinnati, Ohio; Laurel Erosion Control Cloth as manufactured by Laurel Plastics Inc., Madison, Main, or approved equal.

2. Rip-Rap shall be placed 6' each side of sewer as shown. Any disturbance to stream banks beyond these limits shall be protected with Rip-Rap.

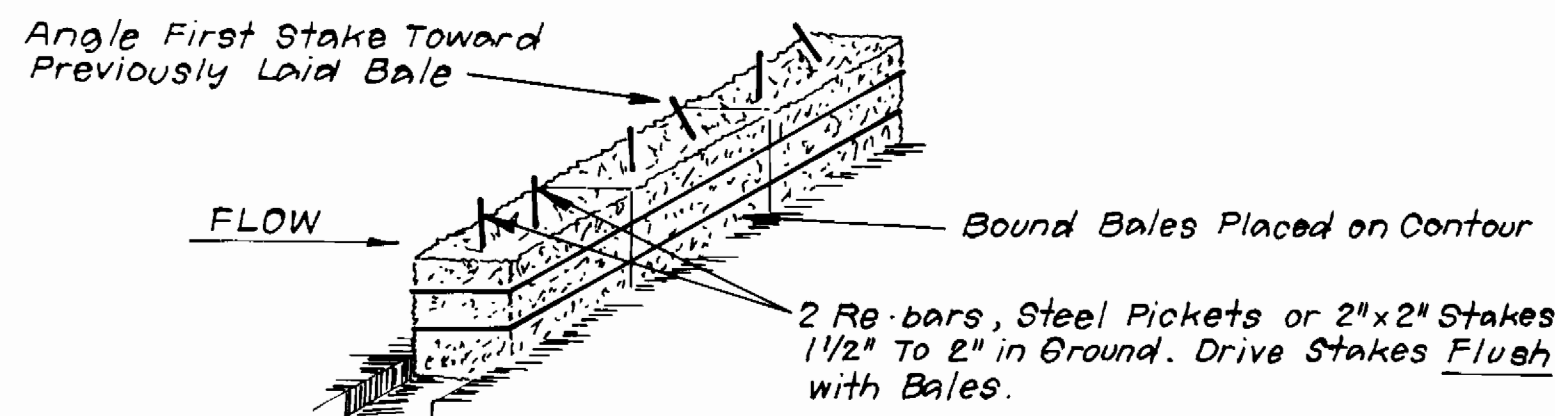


RIP-RAP DETAIL  
NO SCALE



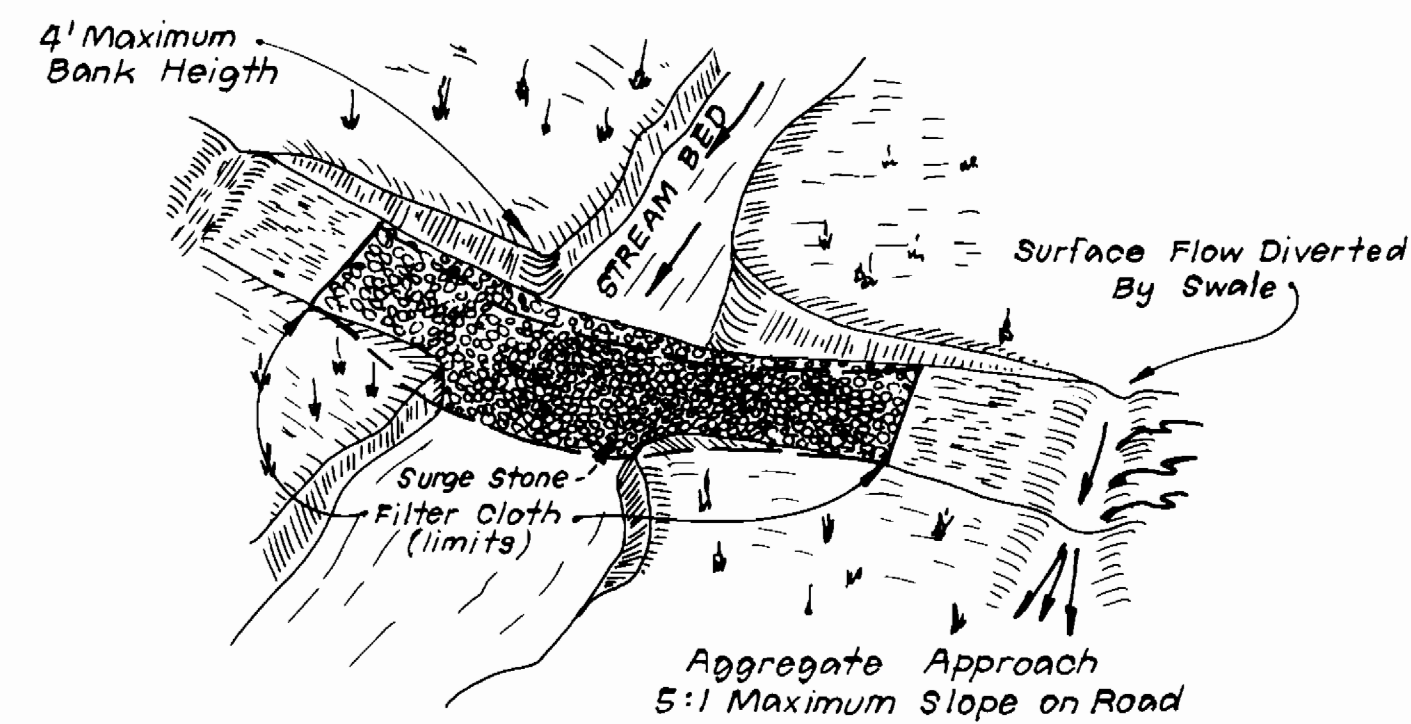
BEDDING DETAIL

STANDARD SYMBOL  
S.B.D.

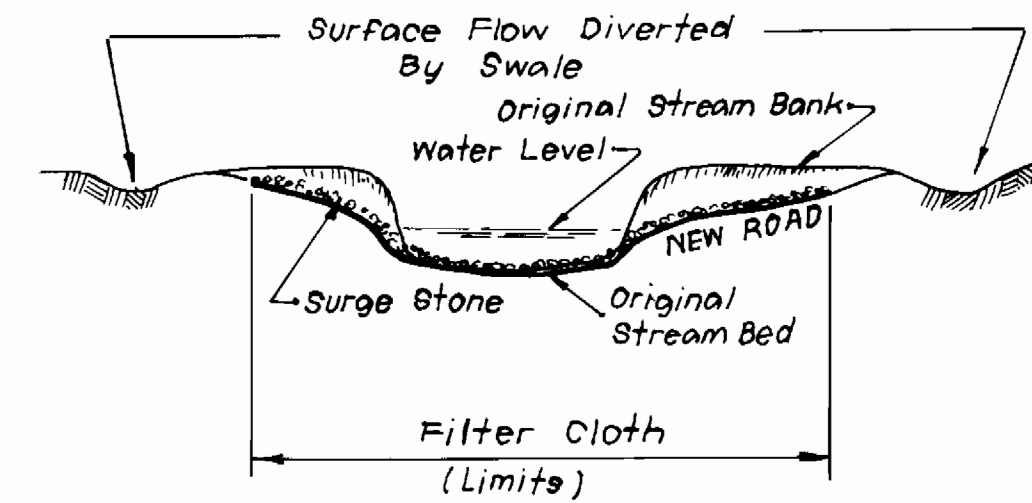


ANCHORING DETAIL

STRAW BALE DIKE  
NO SCALE



PERSPECTIVE VIEW

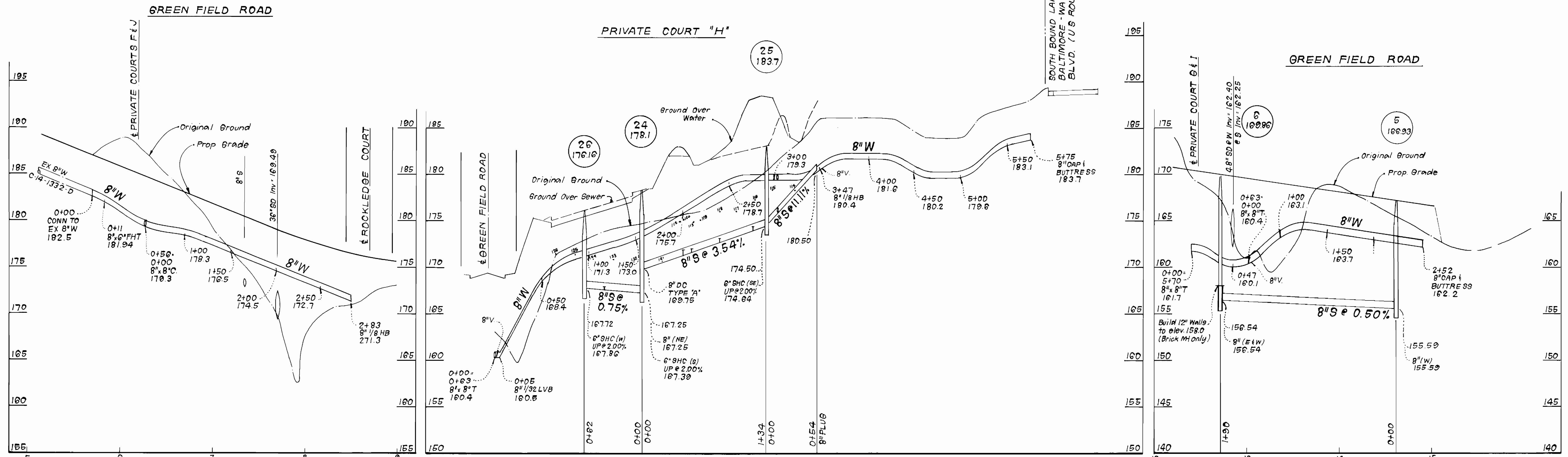


PROFILE

TEMPORARY ACCESS FORD  
NO SCALE

SEQUENCE OF CONSTRUCTION

1. Obtain grading permit. \_\_\_\_\_ 1
2. Clear and grub area and install sediment erosion control devices. \_\_\_\_\_ 5
3. Excavate and install 8" Sewer Pipe. \_\_\_\_\_ 4
4. Backfill trench and stabilize in accordance with standard details and specifications. \_\_\_\_\_ 4
5. Excavate and install 8" Water Main. \_\_\_\_\_ 2
6. Backfill trench and stabilize in accordance with standard details and specifications. \_\_\_\_\_ 2
7. Remove sediment and erosion control devices and stabilize upon approval of S&E Control Inspector. \_\_\_\_\_ 7

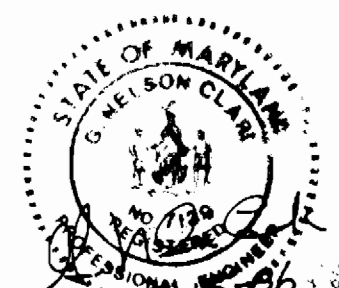


DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James H. Lewis* 12/15/86  
DIRECTOR OF PUBLIC WORKS DATE

*Michael J. ...* 12-15-86  
CHIEF, BUREAU OF ENGINEERING DATE

**CFE** CLARK · FINEPROCK & SACKETT  
ENGINEERS · PLANNERS · SURVEYORS  
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904  
(301) 593-3400



DES: JTR	VLM	1	Deleted DHC bet MH's 5 & 6.	3/8/87
DRN: JTR				
CHK: CCM				
DATE: 12-15-86	BY: NO.	REVISION	DATE	600'S SCALE MAP NO. 38 BLOCK NO.

SEDIMENT CONTROL DETAILS  
AND  
PROFILES OF  
WATER & SEWER MAINS

ROCKBURN COMMONS  
SECTION THREE  
LOTS 54 - 128 & PARCELS "F" - "I"  
1ST ELECTION DISTRICT  
CONTRACT NO. 14 - 1560-D

SCALE  
HORIZ. 1" = 50'  
VERT. 1" = 5'  
SHEET  
5 OF 5