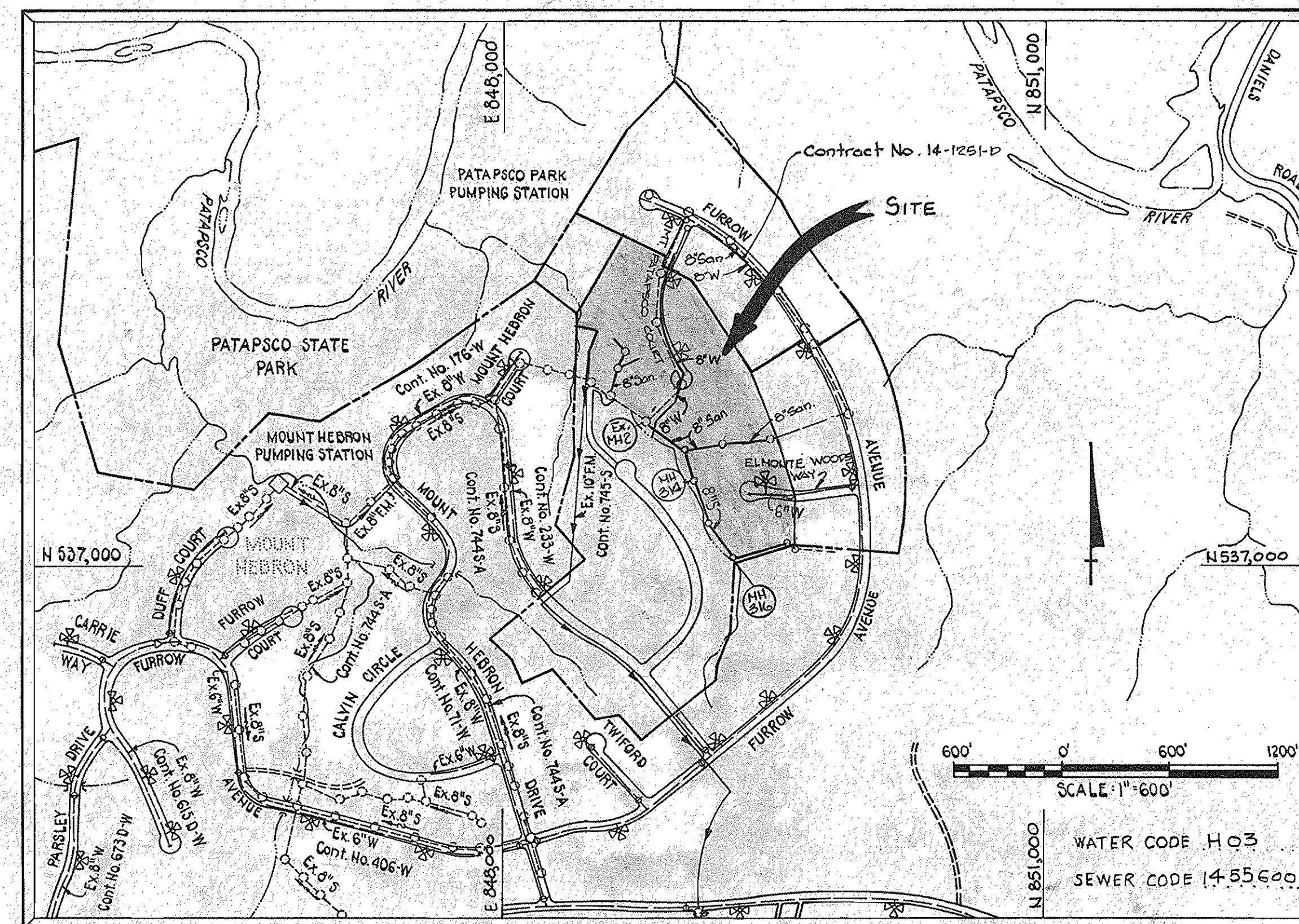


QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL/SUP
8" W (L.F.)	1118 L.F.	1118	DIP AAA WATER WORKS
6" W (L.F.)	330 L.F.	320	" " "
3/4" WHC (L.F.)	330 L.F.	315	COPPER PIPE B-88 AAA WATER WORKS
1" DWHC (L.F.)	155 L.F.	124.75	" " "
6" V	3 Units	3	AAA 2-509 AAA WATER WORKS
8" Y	1 Unit	1	" " "
F.H.	3 Units	3	AAA W.P. C-308-73 AAA WATER WORKS PVC 300 3000
8" San. (L.F.)	2629 L.F.	2581	AAA WATER WORKS
6" SHC (L.F.)	469 L.F.	569.92	PVC 300 3000 AAA WATER WORKS
Manholes (V.F.)	106 V.F.	91.41	PRECAST CONCRETE BELOW RD SUPPLY BELOW RD SUPPLY MULLER
Blowoff	1 Unit	1	" " "
6" DIP SHC L.F.		142 L.F.	DIP AAA WATER WORKS

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 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 2'-0" minimum or tunnel as required. The owner has contacted the utilities 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 Details for Construction. 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 utilities 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 561-2585
 - Baltimore Gas & Electric Co. - Underground Damage Control 234-5621
 - Baltimore Gas & Electric Co. - Trouble Shooting 298-9013
 - Miss Utility - 1-559-0100
 - Colonial Pipeline Co. - 795-1390
 - Bureau of Utilities, Howard County Dept. of Public Works - 992-2366
- 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.
- All water mains to be D.I.P. unless otherwise noted.
- Tops of all water mains to have a minimum of 3/2' 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 1003 the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.
- All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. Class 2400 or 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 D.I.P. only.
- Manholes shown with 12" and 16" walls are brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- Water house connection shall be for inside meter setting.
- All copper water house connections shall utilize flared type fittings only.



Drainage Area: Patapsco
 Number of Lots: 24
 Number of WHC: 24
 Number of SHC: 24

Sediment Control Measures will be implemented in accordance with Section 215 of the Specifications & with Road Construction Plan F-216-223; Drawing Sediment & Erosion Control

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
Steven M. Helm 9-24-86
 SIGNATURE DATE
 US SOIL CONSERVATION SERVICE

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

APPROVED:
Stephen L. Helm 9/24/86
 HOWARD S.C.D. DATE

DRAWING AREA 11823

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Richard M. Berman 9-29-86
 DIRECTOR OF PUBLIC WORKS DATE

William H. ... 9-29-86
 CHIEF, BUREAU OF ENGINEERING DATE

William H. ... 9-29-86
 CHIEF, LAND DEVELOPMENT DIVISION DATE

PURDUM & JESCHKE
 ENGINEERS
 1029 N. CALVERT ST.
 BALTIMORE, MARYLAND

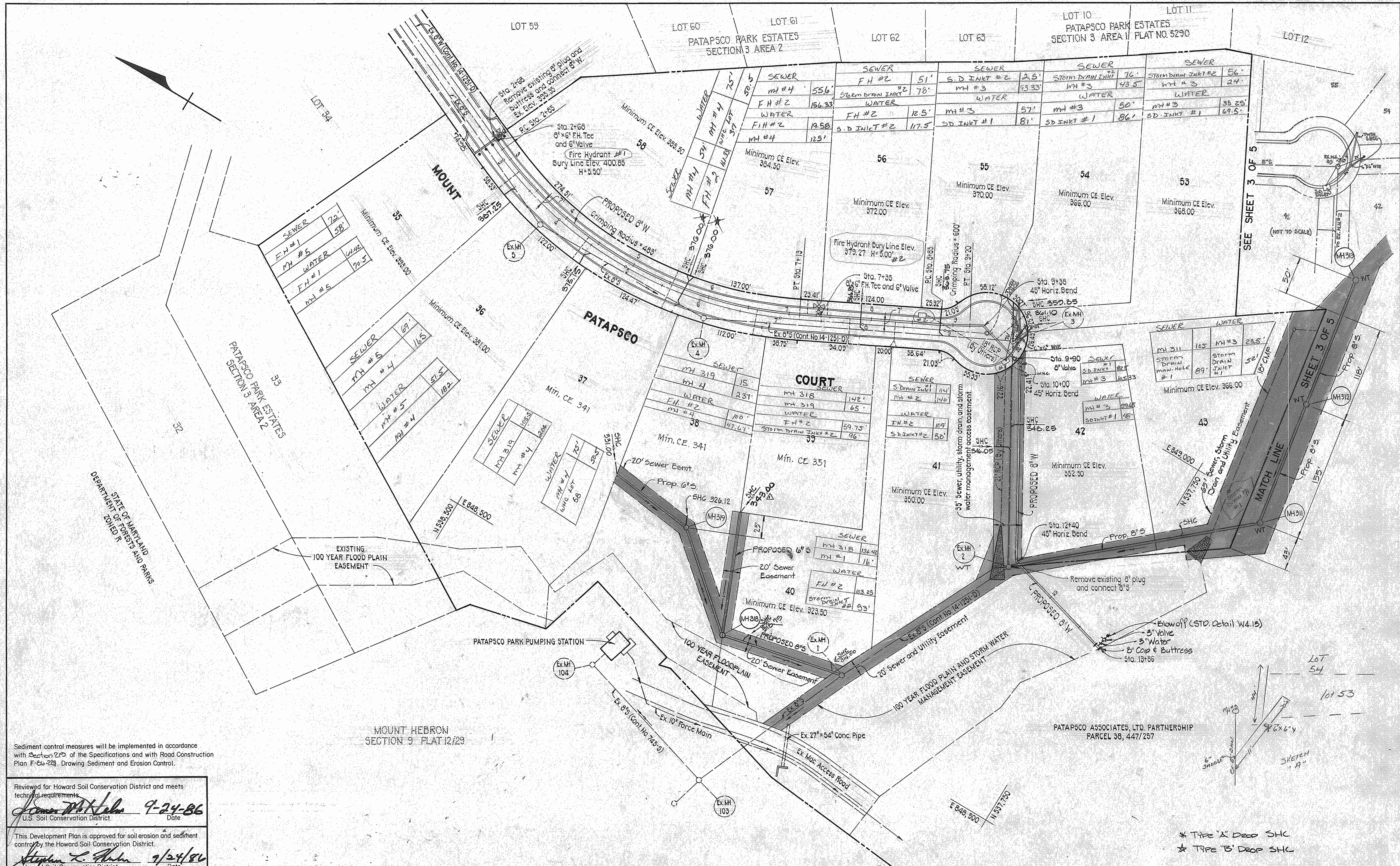
DES: A.R.T.			
DRN:			
CHK: W.G.R.			
DATE: 9-15-86	BY: PS	NO: 1	REVISION: Removed Area 4 from the block

VICINITY MAP & GENERAL NOTES
 WATER & SEWER MAINS

600' SCALE MAP NO. BLOCK NO.

PATAPSCO PARK ESTATES
 SECTION 3, AREA 3
 SECOND ELECTION DISTRICT
 CONTRACT NO. 14-1547-D

SCALE: 1 OF 5



Sediment control measures will be implemented in accordance with Section 2.13 of the Specifications and with Road Construction Plan F-26-223, Drawing Sediment and Erosion Control.

Reviewed for Howard Soil Conservation District and meets technical requirements
James M. Hahn 9-24-86
 U.S. Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Stephen L. Hahn 9/24/86
 Howard Soil Conservation District Date

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works DATE
Robert M. Berger 9-24-86
 Chief, Bureau of Utilities DATE

Chief, Bureau of Engineering DATE
William J. ... 9-24-86
 Chief, Land Development Division DATE

PURDUM & JESCHKE
 ENGINEERS
 1029 N. CALVERT ST.
 BALTIMORE, MARYLAND



DES. A.R.T.			
DRN. A.R.W.			
CHK. W.G.R.	TE	1	Added Dimension to Lot 25
	PS	1	Corrected Inverts
DATE	9-15-86		
BY	NO.	REVISION	DATE

PLAN
 WATER AND SEWER MAIN EXTENSIONS

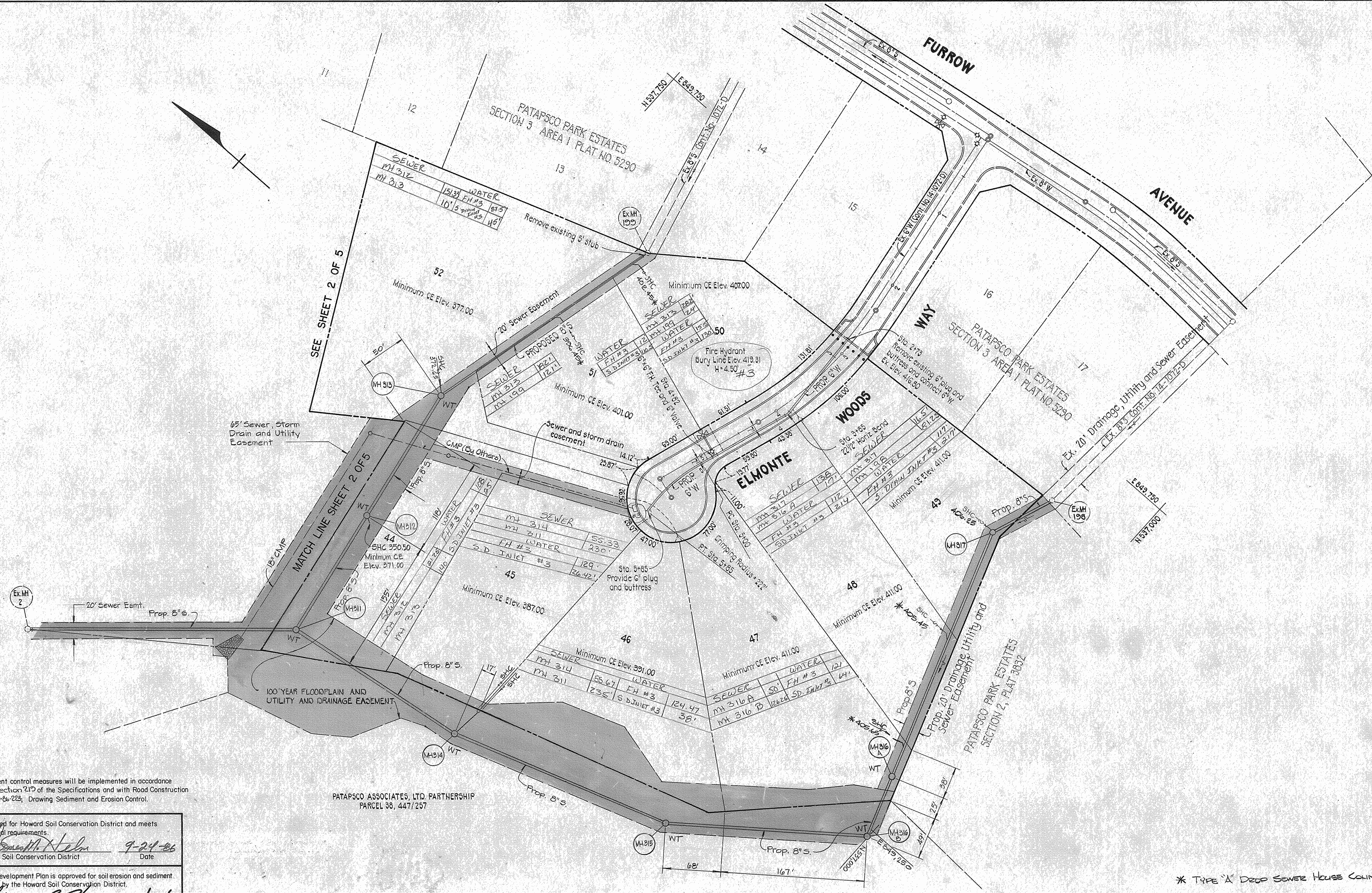
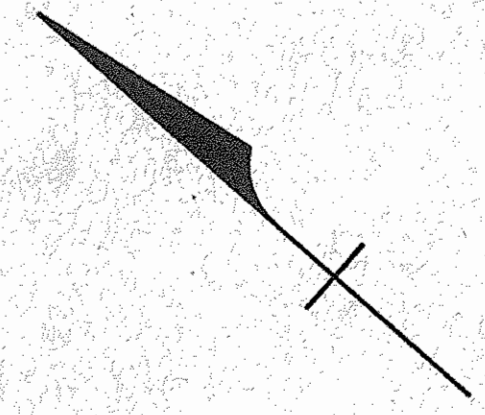
600' SCALE MAP NO. BLOCK NO.

PATAPSCO PARK ESTATES
 SECTION 3, AREA 3
 SECOND ELECTION DISTRICT

CONTRACT NO. 14-1547-D

SCALE
 1" = 50'
 SHEET
 2 OF 5

* TYPE 'A' DROP SHC
 * TYPE 'B' DROP SHC



Sediment control measures will be implemented in accordance with Section 219 of the Specifications and with Road Construction Plan F-66-223, Drawing Sediment and Erosion Control.

Reviewed for Howard Soil Conservation District and meets technical requirements.
James M. Helm 9-24-86
 U.S. Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Stephen L. Fuchs 9/24/86
 Howard Soil Conservation District Date

* TYPE 'A' DEEP SEWER HOUSE COLLN.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

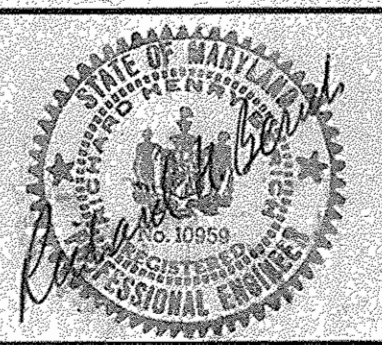
David F. Nunn 10-1-86
 Director of Public Works DATE

Robert M. Bassin 9-29-86
 Chief Bureau of Utilities DATE

Michael J. Fuchs 9-29-86
 Chief Bureau of Engineering DATE

William H. Fuchs 9-29-86
 Chief Land Development Division DATE

PURDUM & JESCHKE
 ENGINEERS
 1029 N. CALVERT ST.
 BALTIMORE, MARYLAND



DES. A.R.T.			
DRN. A.R.W.			
CHK. W.G.R.	TE	1	Corrected DIMENSION - Lot 44
	PS	1	Corrected inverts
DATE: 9-18-86	BY: NO.	REVISION	DATE

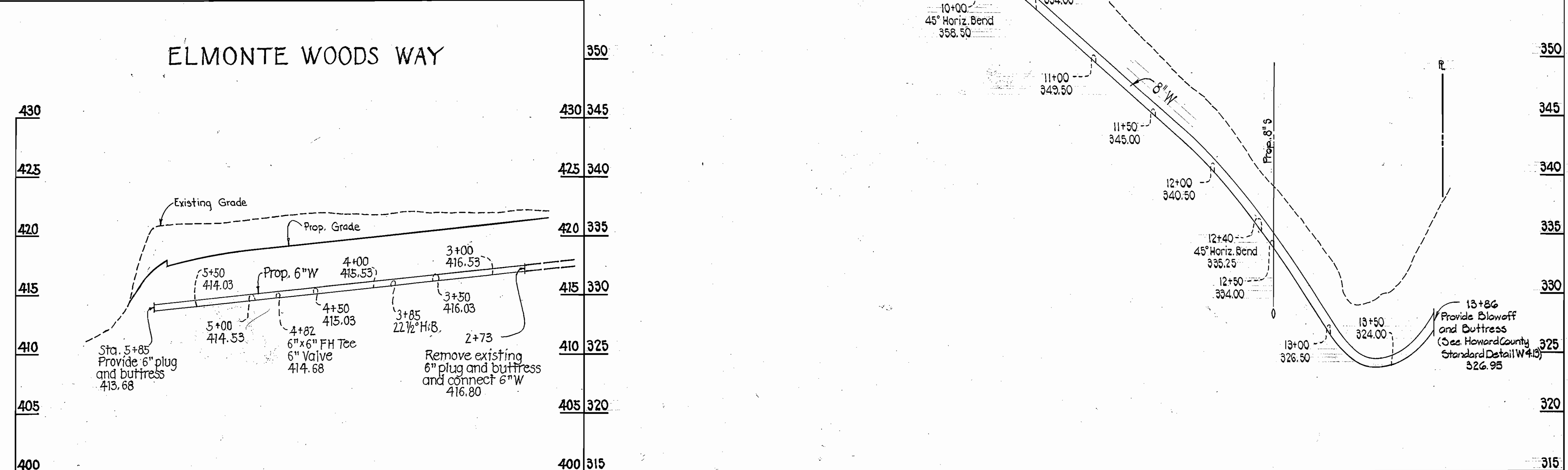
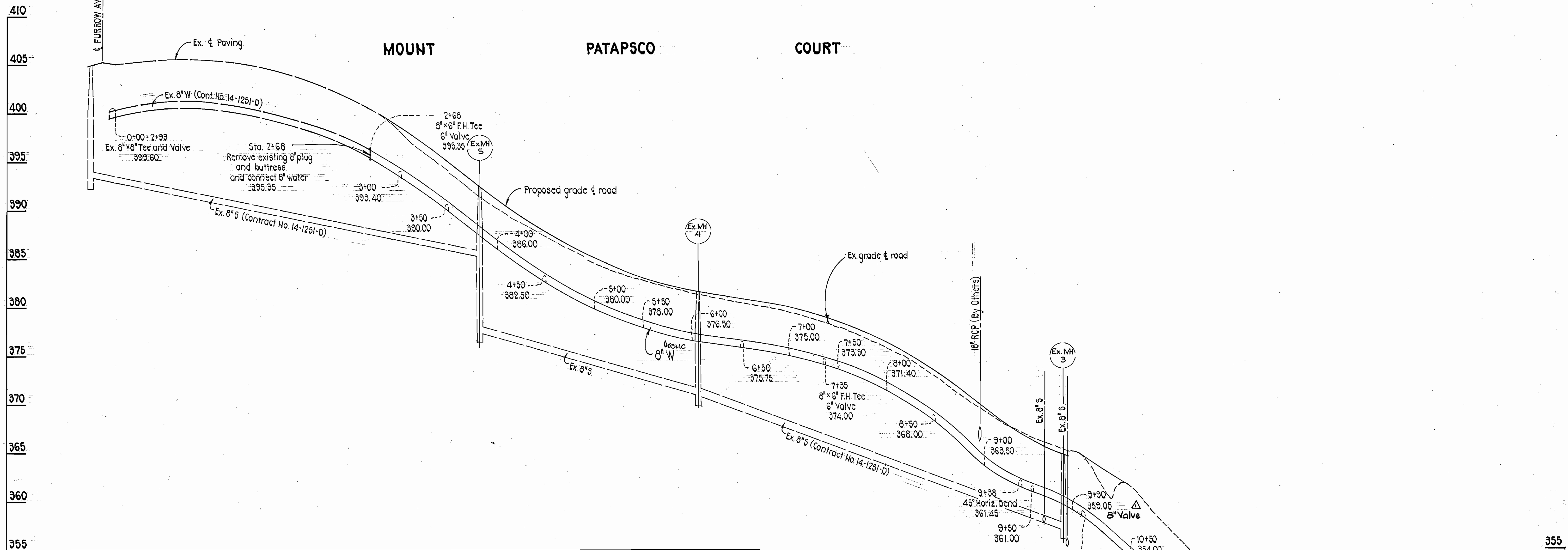
PLAN	
WATER AND SEWER MAIN EXTENSIONS	
600' SCALE MAP NO.	BL CK NO.

PATAPSCO PARK ESTATES
 SECTION 3, AREA 3
 SECOND ELECTION DISTRICT

CONTRACT NO. 14-1547-D

SCALE 1"=50'

SHEET 3 OF 5



Sediment control measures will be implemented in accordance with Section 212 of the Specifications and with Road Construction Plan F-26-225, Drawing Sediment and Erosion Control.

Reviewed for Howard Soil Conservation District and meets technical requirements
[Signature] 9-24-86
 U.S. Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
[Signature] 9/29/86
 Howard Soil Conservation District Date

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature] 9-29-86
 Director of Public Works DATE
[Signature] 9-29-86
 Chief, Bureau of Engineering DATE
[Signature] 9-29-86
 Chief, Land Development Division DATE

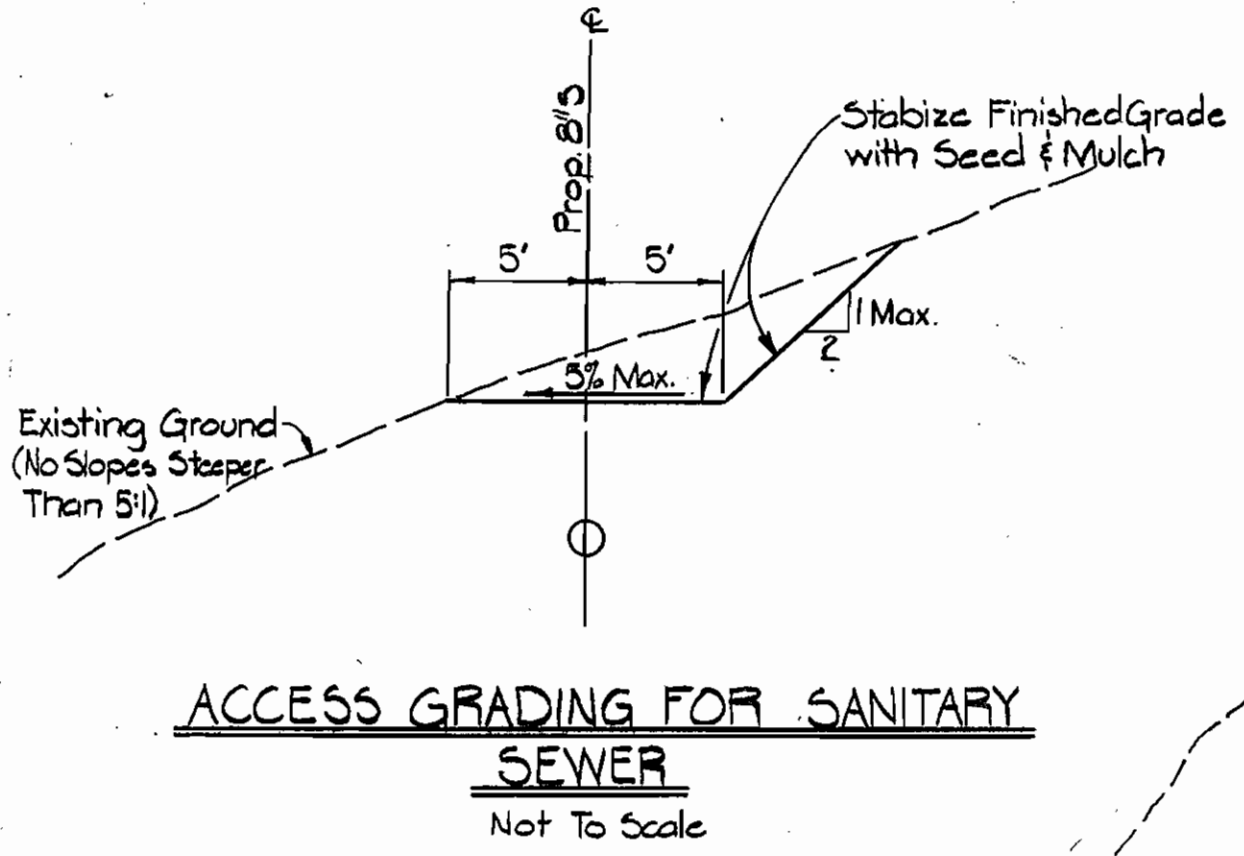
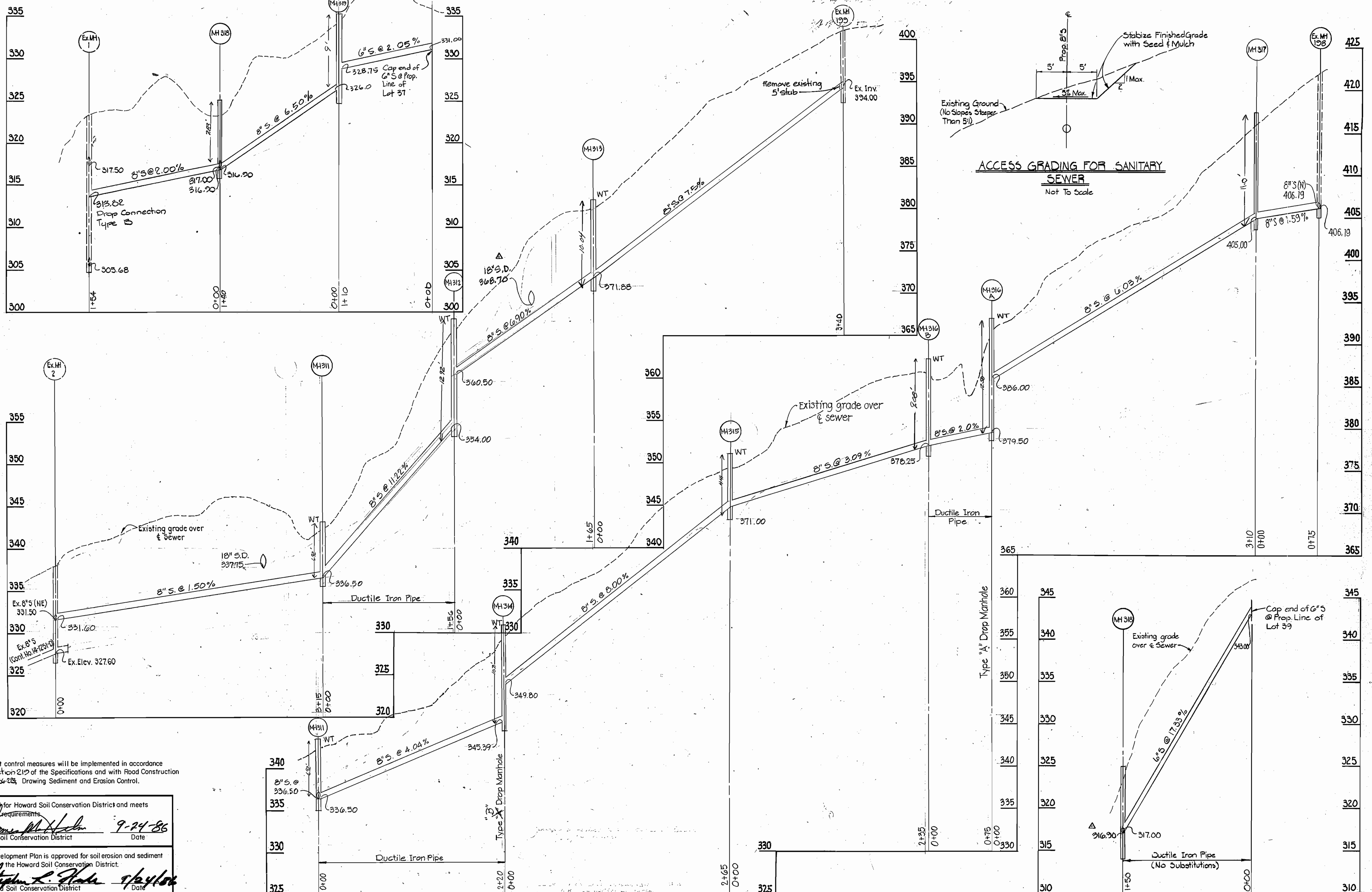
PURDUM & JESCHKE
 ENGINEERS
 1029 N. CALVERT ST.
 BALTIMORE, MARYLAND



DES. A.R.T.				
DRN. A.R.W.				
CHK. W.G.R.	TE	1	Added 8"VC	6-12-87
	PS	1	Added 8" Valve	5-12-86
DATE: 8-18-86	BY	NO.	REVISION	DATE

PROFILE
 WATER AND SEWER MAIN EXTENSIONS
 600' SCALE MAP NO. BLOCK NO.

PATAPSCO PARK ESTATES
 SECTION 3, AREA 3
 SECOND ELECTION DISTRICT
 CONTRACT NO. 14-1547-0
 SCALE: HORIZ. 1"=50'
 VERT. 1"=5'
 SHEET 4 OF 5



Sediment control measures will be implemented in accordance with Section 212 of the Specifications and with Road Construction Plan F-26-23, Drawing Sediment and Erosion Control.

Reviewed for Howard Soil Conservation District and meets technical requirements
[Signature] 9-24-86
 U.S. Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
[Signature] 9/24/86
 Howard Soil Conservation District Date

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
[Signature] 9-29-86
 Director of Public Works Date
[Signature] 9-29-86
 Chief, Bureau of Engineering Date
[Signature]
 Chief, Land Development Division Date

PURDUM & JESCHKE
 ENGINEERS
 1029 N. CALVERT ST.
 BALTIMORE, MARYLAND



DES: A.R.T.			
DRN: A.R.W.			
CHK: W.G.R.			
DATE: 9-15-86	BY: NO.	REVISION	DATE
		PS Δ Located S.D. in profile, added invert	12/2/86

PROFILE
 WATER AND SEWER MAIN EXTENSIONS
 SCALE: H:1"=50', V:1"=5' MAP NO. BLOCK NO.

PATAPSCO PARK ESTATES
 SECTION 3, AREA 3
 SECOND ELECTION DISTRICT
 CONTRACT NO. 14-1547-D
 AS-BUILT 8-16-88 JOB NO. 5405-60

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