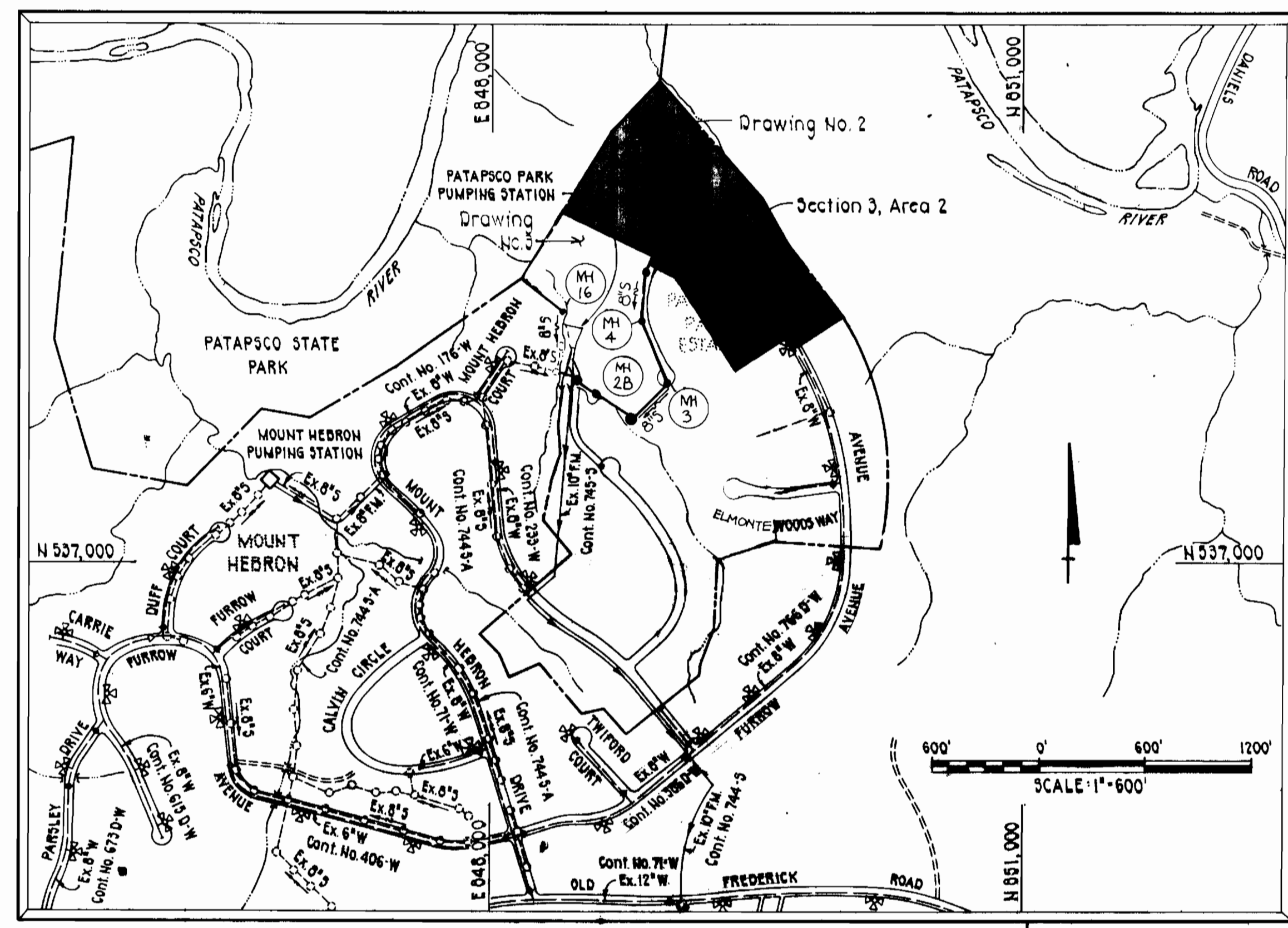


QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL/SUP
5" W (LF)	1,118	1,198	AIP W13 SUPPLY
6" W (LF)	240	195	CIP/ATLANTIC STATES
3/4" WHC (LF)	221	403.5	VINCENT BRASS/MF
1" DWHC (LF)	241	200	" " / " "
8" V	1	1	MUELLER/AIP
6" V (Excl F.H.W.)	1	1	" "
8x6 Reducer	1	1	" "
F.H.	2	2	W/NUMBERS
8" San (LF)	2820	2851	CERTAIN-TECO/AIP
6" SHC (LF)	522	547	AIP
Manholes (V.F.)	144	136	AIP

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 1/2' 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.
- Contractor shall notify Howard County Bureau of Utilities at least two (2) working days prior to starting work on a sewer between MH#1 and EX#103 (See Street 300'). The Access Road to the Patapsco Park Pumping Station must remain accessible for Bureau of Utilities Maintenance Personnel.



WATER CODE HO3
SEWER CODE 1455600

Sediment Control Measures for this contract will be implemented in accordance with Article 15 of the Howard County Standard Specifications and as per F-84-210

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *[Signature]* 10/1/84
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.
[Signature] 10-1-84
U.S. Soil Conservation District Date

Drainage Area: Patapsco
Number of Lots: 22
Number of WHC: 22
Number of SHC: 22

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10-2-84
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 10-25-84
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 10/26/84
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 10/26/84
CHIEF, LAND DEVELOPMENT DIV. DATE

PURDUM & JESCHKE
ENGINEERS
1029 N. CALVERT
BALTIMORE, MARYLAND

[Signature]

DES. A.R.T.	188	REVISION SHEET 4 & 5	12-28-84
DRN. S.E.T.			
F.S.B.			
CHK. W.G.R.			
DATE: 2-3-84	BY NO.	REVISION	DATE

VICINITY MAP & GENERAL NOTES
WATER & SEWER MAINS

600' SCALE MAP NO. 17 BLOCK NO.

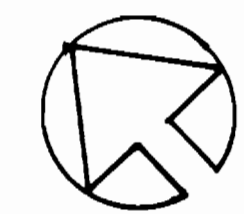
PATAPSCO PARK ESTATES
SECTION 3, AREA 2
SECOND ELECTION DISTRICT

CONTRACT NO. 14-1251-D

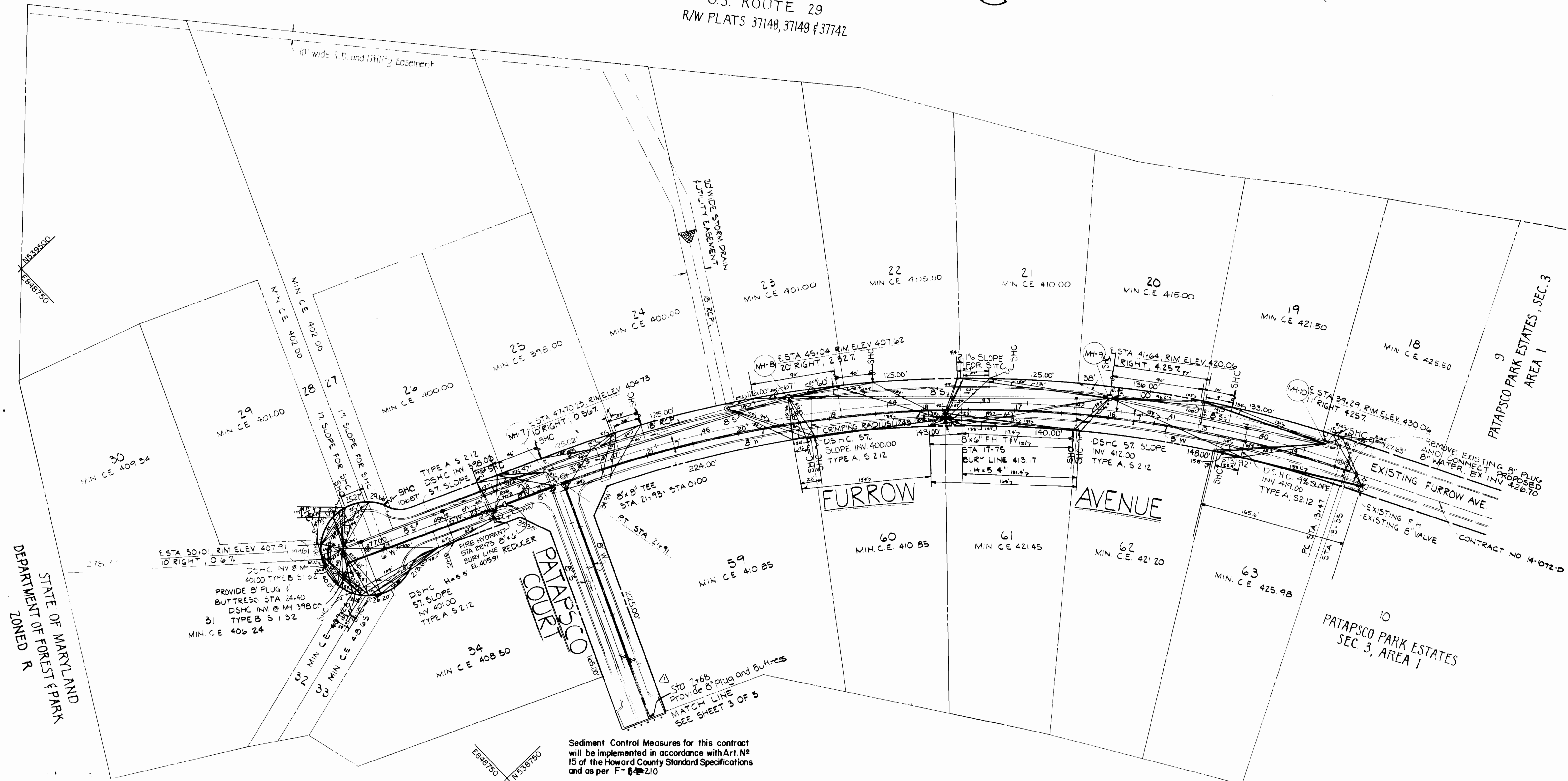
SCALE AS SHOWN

SHEET 1 OF 5

U.S. ROUTE 29
R/W PLATS 37148, 37149 & 37742



E850000
N538750



DEPARTMENT OF MARYLAND
 STATE OF FOREST PARK
 ZONED R

Sediment Control Measures for this contract will be implemented in accordance with Art. 15 of the Howard County Standard Specifications and as per F-84210.

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *Stephen L. Hub* 10/11/84
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

U.S. Soil Conservation Dist. Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John F. Nunn 10/24/84
DIRECTOR, PUBLIC WORKS DATE

William G. Pank 10/25/84
CHIEF, BUREAU OF UTILITIES DATE

William G. Pank 10/24/84
CHIEF, BUREAU OF ENGINEERING DATE

William G. Pank 10/18/84
CHIEF, LAND DEVELOPMENT DIV. DATE

PURDUM & JESCHKE
ENGINEERS
1029 N. CALVERT
BALTIMORE, MARYLAND

William G. Pank

DES. A.R.T.			
DRN. S.E.T.			
CHK. W.G.R.			
DATE: 2-3-84	BY	NO.	REVISION

PLAN
WATER & SEWER MAINS

600' SCALE MAP NO. _____ BLOCK NO. _____

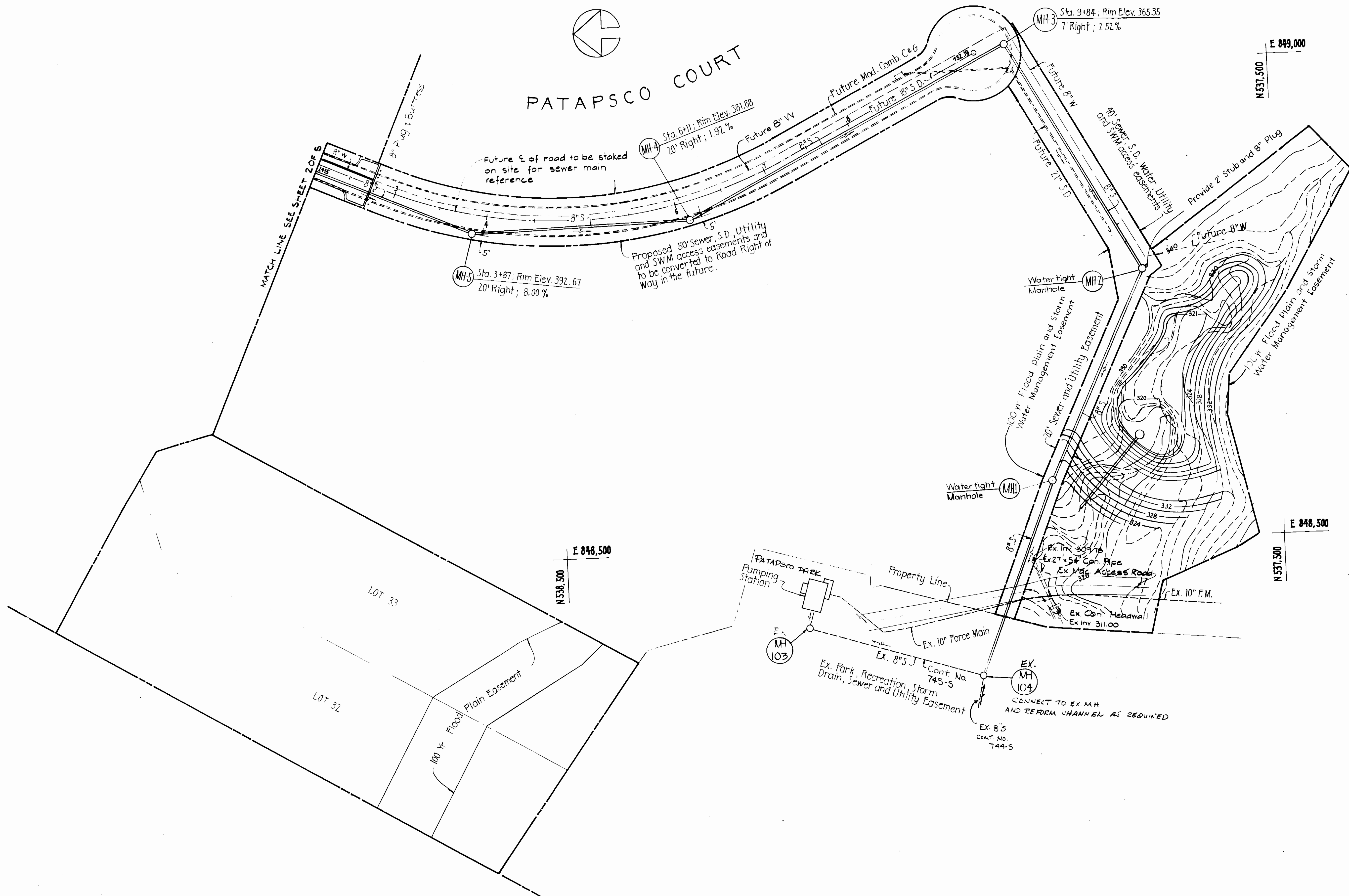
PATAPSCO PARK ESTATES
SECTION 3, AREA 2
SECOND ELECTION DISTRICT

CONTRACT NO. 14-1251-D

SCALE
1"=50'

SHEET
2 OF 5

LOT NO.	INVERT @ P.L.
18	416.78
19	411.70
20	405.26
21	399.59
22	395.79
23	392.34
24	390.89
25	389.32
26	390.58
27	392.26
28	393.10
29	393.70
30	402.96
31	401.72
32	398.90
33	403.90
34	399.75
59	402.10
60	402.10
61	413.70
62	413.70
63	420.28



Sediment Control Measures for this contract will be implemented in accordance with Art. 15 of the Howard County Standard Specifications and as per F-84-20

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *Stephen L. Fisher* 10/1/04
Signature Date U.S. Soil Conservation Dist. Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Henry F. Noman 10-29-04
DIRECTOR OF PUBLIC WORKS DATE

William H. ... 10/26/04
CHIEF, BUREAU OF ENGINEERING DATE

Robert M. ... 10-25-04
CHIEF, BUREAU OF UTILITIES DATE

William H. ...
CHIEF, LAND DEVELOPMENT DIV. DATE

PURDUM & JESCHKE ENGINEERS 1029 N. CALVERT BALTIMORE, MARYLAND		DES: A.R.T.			
		DRN: A.R.T.			
		CHK: W.G.R.			
DATE: 2-3-84		BY NO.		REVISION	
		DATE		600' SCALE MAP NO. BLOCK NO.	

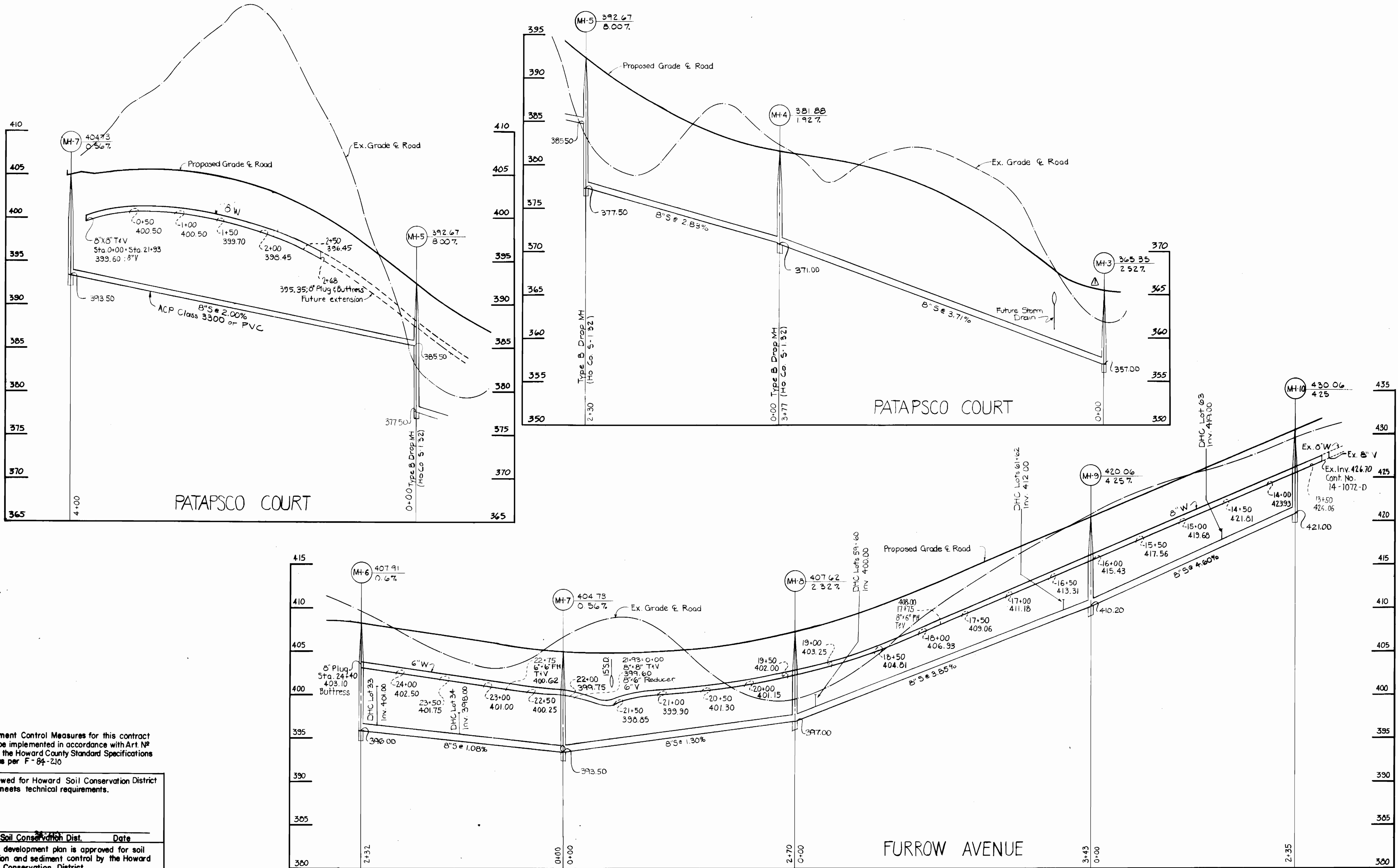
PLAN
WATER & SEWER MAINS

PATASCO PARK ESTATES
SECTION 3, AREA 2
SECOND ELECTION DISTRICT

CONTRACT NO. 14-1251-D

SCALE
1"=50'

SHEET
3 OF 5



Sediment Control Measures for this contract will be implemented in accordance with Art. 15 of the Howard County Standard Specifications and as per F-84-210.

Reviewed for Howard Soil Conservation District and meets technical requirements.

U.S. Soil Conservation Dist. Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

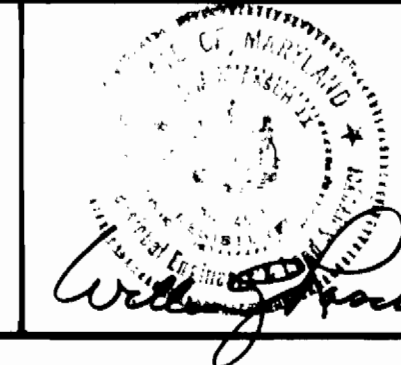
Approved: *[Signature]* 10-1-84
Signature Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10-24-84
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 10/24/84
CHIEF, BUREAU OF ENGINEERING DATE

PURDUM & JESCHKE
ENGINEERS
1029 N. CALVERT
BALTIMORE, MARYLAND



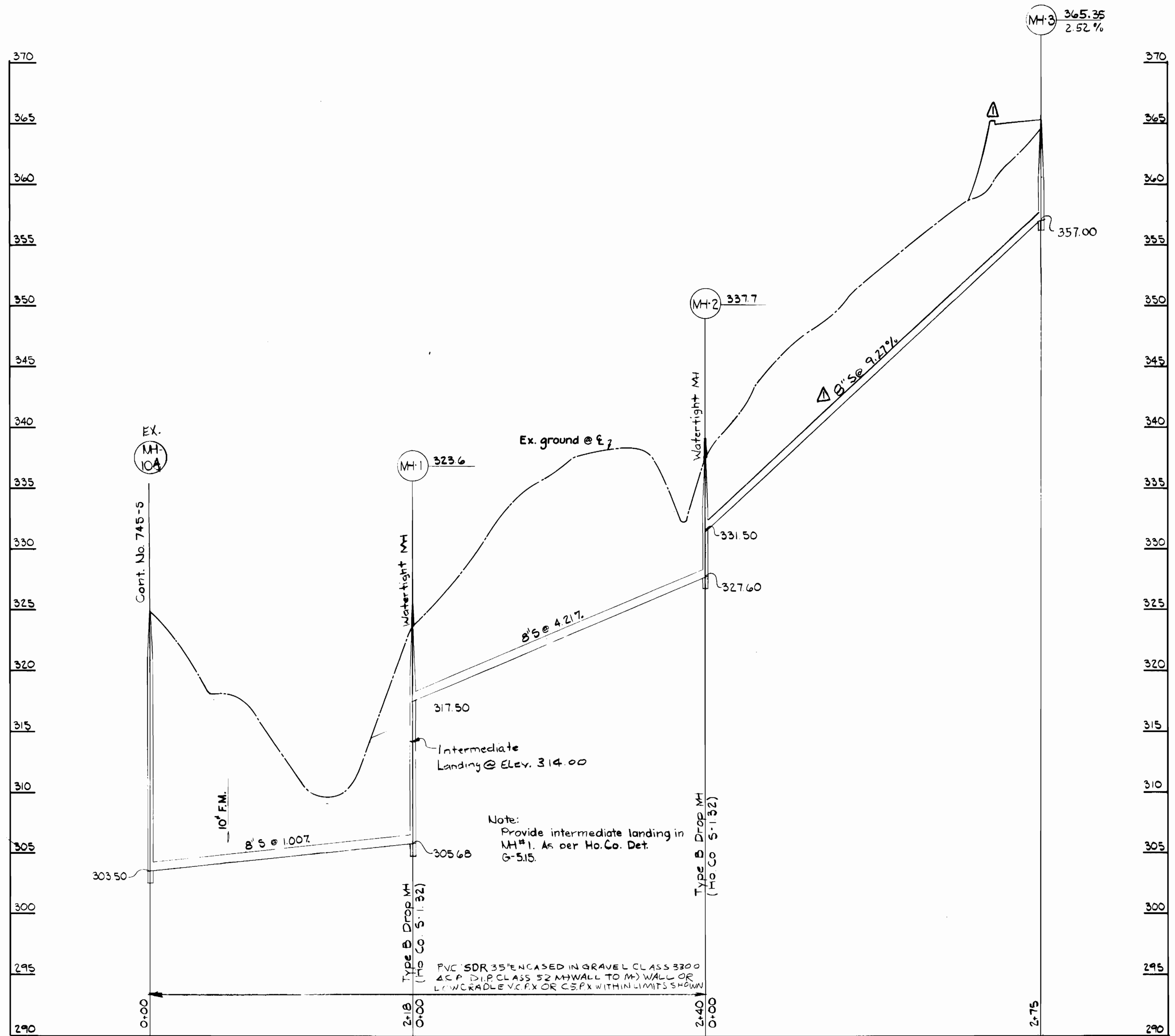
DES: A.R.T.	L.B.B. A	Revised Grades - Patapsco Ct. 10-20-84
DRN: F.S.B.		
CHK: W.G.R.		
DATE: 2-3-84	BY NO.	REVISION

PROFILE
WATER & SEWER MAINS

PATAPSCO PARK ESTATES
SECTION 3, AREA 2
SECOND ELECTION DISTRICT

CONTRACT NO. 14-1251-D

SCALE
HOR: 1"=50'
VERT: 1"=5'
SHEET
4 OF 5



Sediment Control Measures for this contract will be implemented in accordance with Art. # 15 of the Howard County Standard Specifications and as per F-84-210

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *[Signature]* 10-1-84
Signature Date

U.S. Soil Conservation Dist. Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10-2-84
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 10/2/84
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 10-5-84
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 10/2/84
CHIEF, LAND DEVELOPMENT DIV. DATE

PURDUM & JESCHKE
ENGINEERS
1029 N. CALVERT
BALTIMORE, MARYLAND

[Signature]

DES. A.R.T.	L.B.B. Δ	CHANGED GRADE 8" S 0+00 to 2+75	12.22.84
DRN. S.E.T.	L.B.B. Δ	ADDED SECTION OF PATAPSCO CT.	2-28-84
CHK. W.G.R.			
DATE: 2-3-84	BY NO.	REVISION	DATE

PROFILE
WATER & SEWER MAINS

600' SCALE MAP NO. _____ BLOCK NO. _____

PATAPSCO PARK ESTATES
SECTION 3, AREA 2
SECOND ELECTION DISTRICT
CONTRACT NO. 14-1251-D

SCALE
HOR. 1"=50'
VERT. 1"=5'

SHEET
5 OF 5