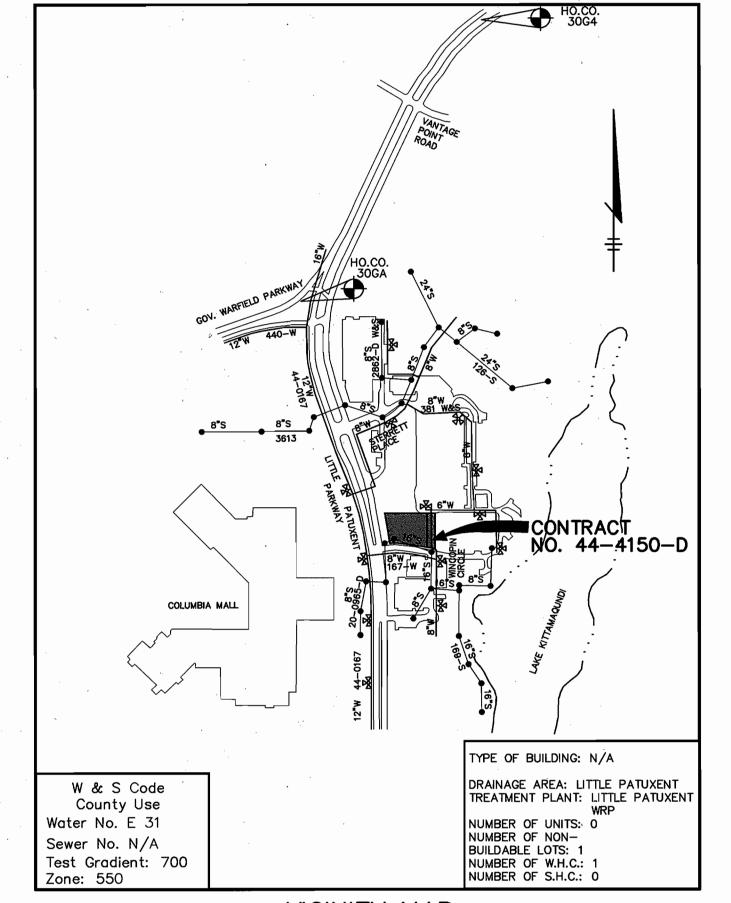
# WATER EXTENSIONS

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 44-4150-D



VICINITY MAP

# BENCH MARK

CONTROL STATION 30GA ELEVATION 340.608 N 566,053.579 E 1,352,177.629 CONTROL STATION 30G4 ELEVATION 360.979 N 567,815.206 E 1,353,271.285

### SEQUENCE OF CONSTRUCTION

- 1. OBTAIN PLUMBING PERMIT.
- 2. REPAIR OR REPLACE ANY SEDIMENT CONTROL DEVICE (SUPER SILT FENCE) INSTALLED UNDER SDP-03-136. (1/2 DAY)
- 3. INSTALL WATER MAIN (4 DAYS)
- 4. UPON PERMISSION OF COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 DAY)

# **GENERAL NOTES**

- 1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates, NAD 83/91.
- 3. All vertical controls are based on NAVD 88.
- 4. All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- 5. Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility 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 monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 6. For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
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1-800-743-0033 / 410-224-9210

- 9. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- 10. The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- 11. The contractor shall notify the Bureau of Highways, Howard County, at 410-313-7450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

#### WATER NOTES

- 1. All water mains shall be D.I.P. Class 52 unless otherwise noted.
- 2. Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
- 3. Valves adjacent to tees shall be strapped to tees.
- 4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- 5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- 6. The contractor shall not operate any water main valves on the existing water system.

will be implemented in accordance with Section

Sediment control measures for this contract

ITEMS

6" PLUG & BUTTRESS

NAME OF UTILITY CONTRACTOR

6" WATER

6" V

8,"X6" T

8" WATER

8" 1/8HB

8" 1/8VB

Review for Howard Soil Conservation District and meets technical requirements.

219 of the Specifications and as shown on SDP-03-136

QUANTITIES

**QUANTITIES** 

**QUANTITIES** 

**ESTIMATED** 

10 LF

1 EA

1 EA

1 EA

268 LF

4 EA

2 EA

sediment control by the Howard Soil Conservation

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

AS-BUILT

TYPE

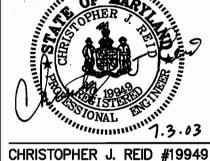
CHECKBOX

AS-BUILT DATE

SURVEY AND DRAFTING DIVISION

MANUFACTURER SUPPLIER

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. Columbia, MD 21045



CHK: DAM

DES: C.J.R.

BY NO. REVISION

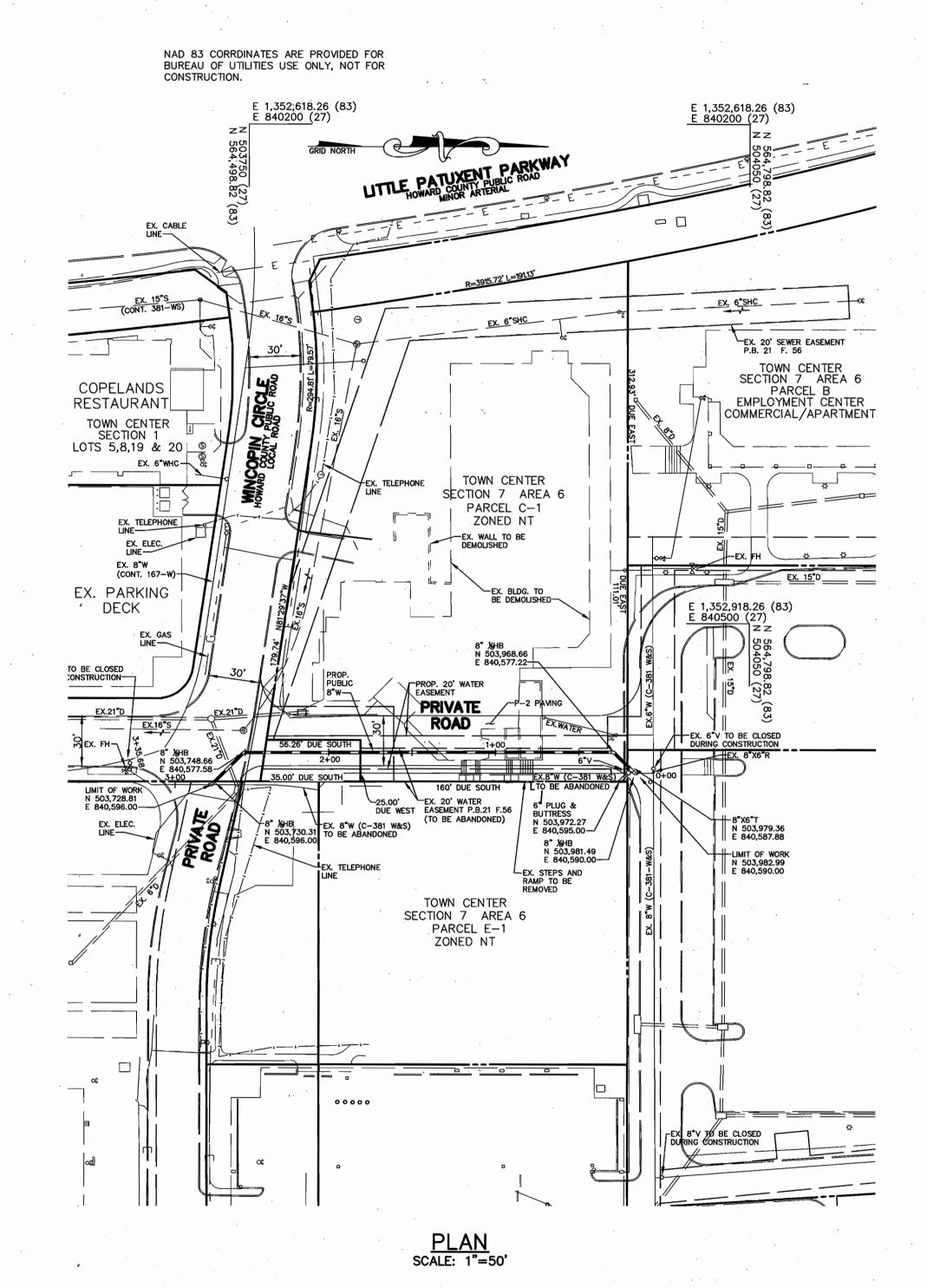
TITLE SHEET

600' SCALE MAP NO. 36 BLOCK NO.

COLUMBIA TOWN CENTER SECTION 7 AREA 6 PARCEL C-1, PART 2 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 44-4150-D

SHOWN

SHEET \_1\_OF\_2\_



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Patton Harris Rust & Associates, pc Engineers. Surveyors. Planners. Landscape Architects.

8818 Centre Park Drive Columbia, MD 21045
T 410.997.8900
F 410.997.9282

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OF THE PERSON OF
1000 ONAL MILITARY
7.3
CHRISTOPHER J. REID #199

19949	DATE: 7/3/03	BY	NO.	REVISION
3.63	DATE: 7/3/03			,
•	CHK: DAM			
inni,				
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	DES. 0.0.IX.			
	DES: C.J.R.			

PLAN VIEW AND PROFILES OF WATER MAINS

600' SCALE MAP NO. 36 BLOCK NO.

COLUMBIA TOWN CENTER

SECTION 7 AREA 6

PARCEL C-1, PART 2

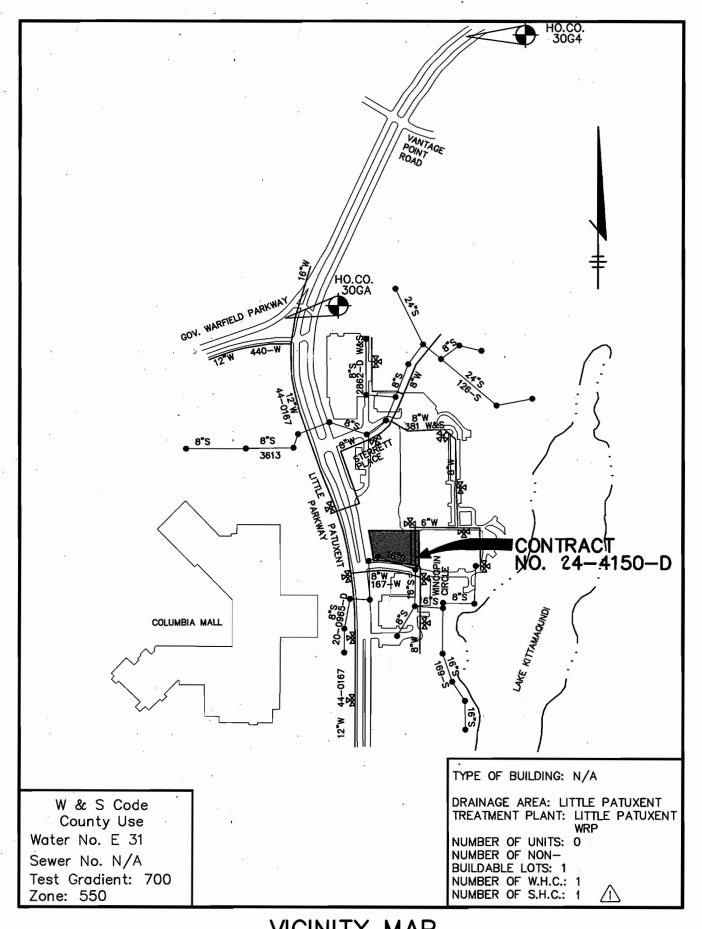
5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT 44-4150-D

SCALE AS SHOWN SHEET 2 OF 2 2

# SEWER AND WATER EXTENSIONS 5th ELECTION DISTRICT CONTRACT NO. 24-4150-D



# BENCH MARK

CONTROL STATION 30GA ELEVATION 340.608 N 566,053.579 E 1,352,177.629

CONTROL STATION 30G4 ELEVATION 360.979 N 567,815.206 E 1,353,271.285

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3. INSTALL WATER MAIN (4 DAYS)

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# **GENERAL NOTES**

- 1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates, NAD 83/91.
- 3. All vertical controls are based on NAVD 88.
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- 5. Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility 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 monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
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#### WATER NOTES

- 1. All water mains shall be D.I.P. Class 52 unless otherwise noted.
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#### 1 SEWER NOTES

- 1. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
- 2. All manholes shall be 4'.0" inside diameter unless otherwise noted.
- 3. Force mains shall be D.I.P. only.
- 4. Manholes shown with 12" and 16" walls are for brick manholes only.
- 5. Wanholes designated W.T. in plan and profile shall have watertight frame and covers, Stanard Detail G 5.52. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- G. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

VICINITY MAP

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

14'0" DIA. WANHOLE

ITEMS

6" PLUG & BUTTRESS

NAME OF UTILITY CONTRACTOR

meets technical requirements.

Sediment control measures for this contract

will be implemented in accordance with Section

Review for Howard Soil Conservation District and

This plan is approved for soil erosion and

219 of the Specifications and as shown on SDP-03-136

1 B" SEWER

6" WATER

8"X6" T

8" WATER

8" 1/8HB

8" 1/8VB

1 EA

32 LF

1 EA

**QUANTITIES** 

**ESTIMATED** 

10 LF

1 EA

1 EA

1 EA

268 LF

4 EA

2 EA

QUANTITIES

QUANTITIES

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

AS-BUILT

TYPE

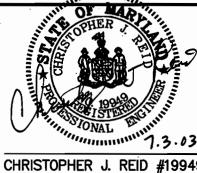
CHECKBOX

AS-BUILT DATE

SURVEY AND DRAFTING DIVISION

MANUFACTURER SUPPLIER

Patton Harris Rust & Associates,pc PLR+ Columbia, MD 21045
T 410.997.8900



RATION	DES: C.J.R.					
	526. G.G.I.V.	•				
	DRN: DRH					
TERESTRIPIES	CHK: DAM					
11.3.03	DATE 7 /7 /07	WAD	$\triangle$	ADDED SEWER		11.6.03
J. REID #19949	DATE: 7/3/03	BY	NO.	REVISION	DATE	

TITLE SHEET

BLOCK NO.

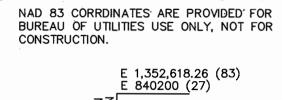
600' SCALE MAP NO. 36

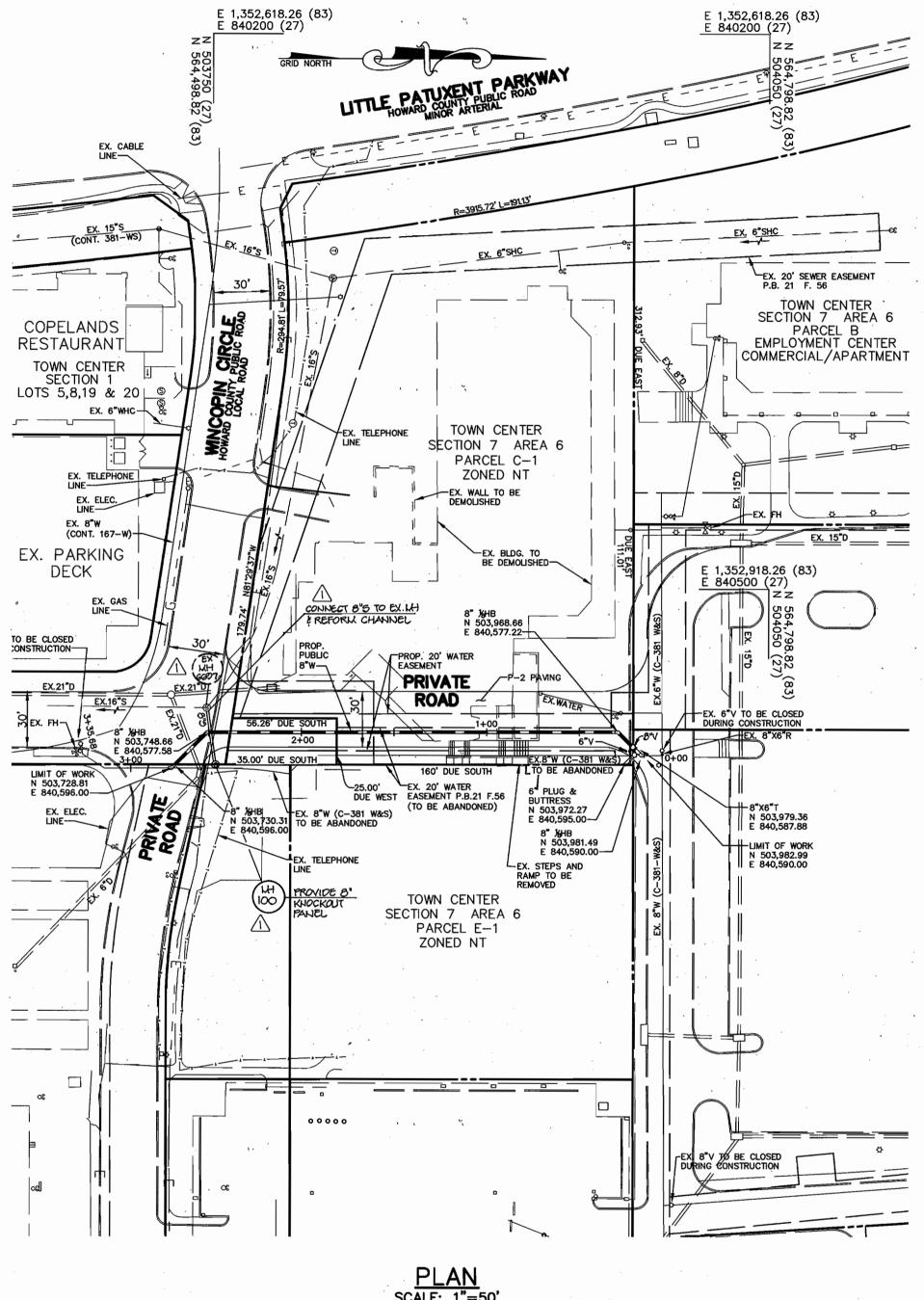
COLUMBIA TOWN CENTER SECTION 7 AREA 6 PARCEL C-1, PART 2 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

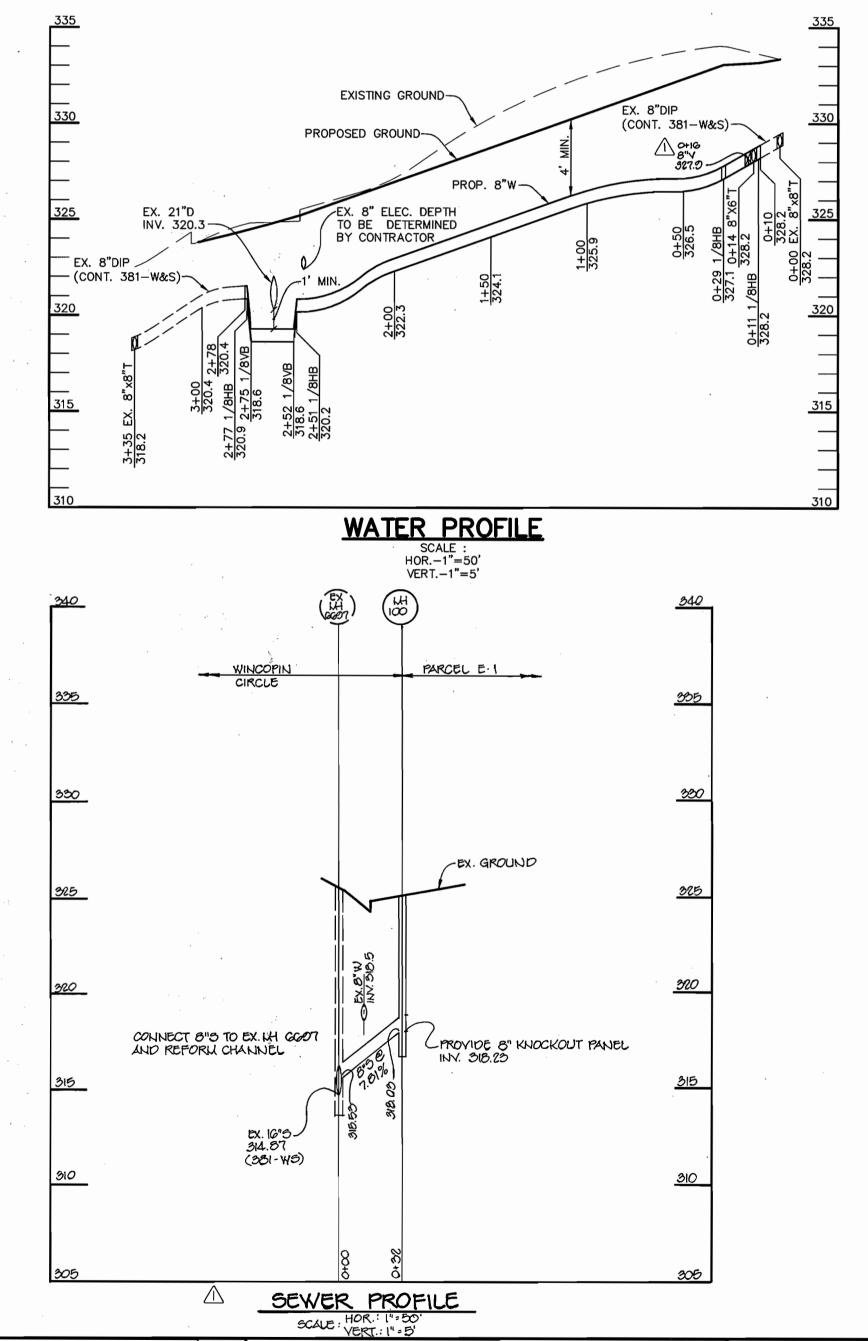
CONTRACT 24-4150-D △

**SCALE** SHOWN

SHEET 1\_OF\_2







DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Patton Harris Rust & Associates, pc
Engineers. Surveyors. Planners. Landscape Architects.

8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

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	1998 SERVICE
	CHRISTOPHER J. REID #19949

#19949	DATE: 7/3/03	BY	NO.	REVISION	DATE	
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PLAN VIEW AND PROFILES
OF WATER AND SEWER WAINS A

600' SCALE MAP NO. 36 BLOCK NO.

COLUMBIA TOWN CENTER

SECTION 7 AREA 6

PARCEL C-1, PART 2

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

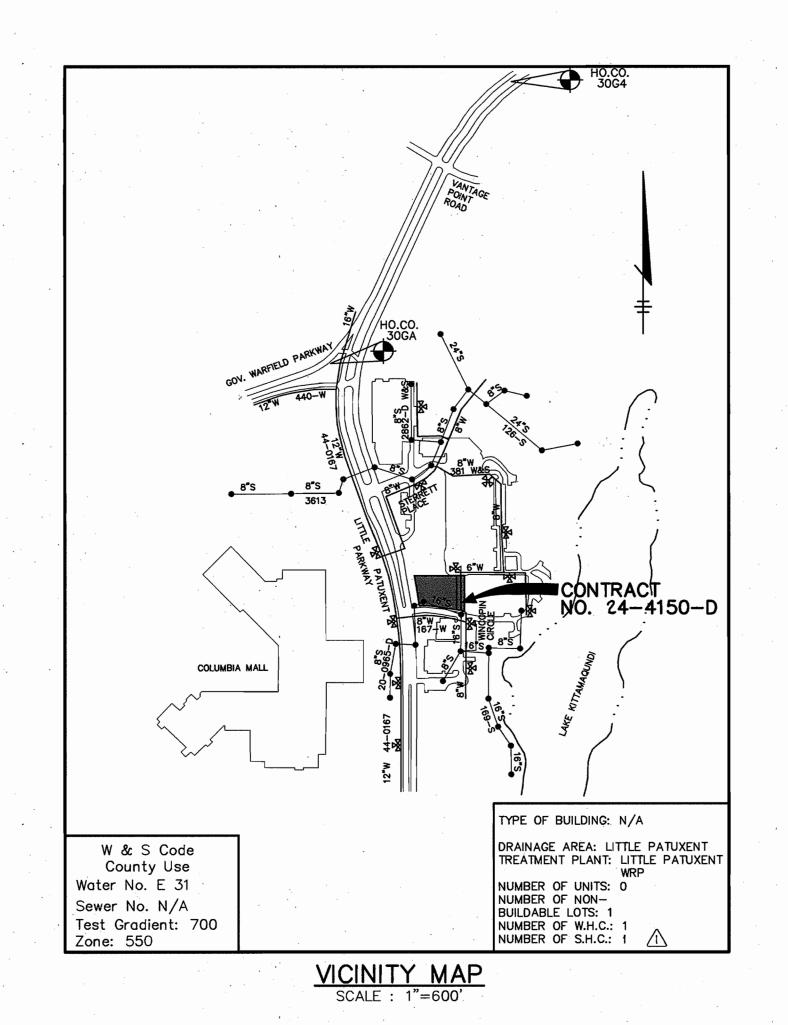
CONTRACT 24-4150-D

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2 OF 2

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# SEWER AND WATER EXTENSIONS 5th ELECTION DISTRICT CONTRACT NO. 24-4150-D



# BENCH MARK

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1-800-252-1133

410-850-4620

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AS BUIL DATE: MAY 2004

1 4'-0" DIA. MANHOLE

ITEMS

6" PLUG & BUTTRESS

NAME OF UTILITY CONTRACTOR : H.T.I.

Sediment control measures for this contract

will be implemented in accordance with Section

Review for Howard Soil Conservation District and

sediment control by the Howard Soil Conservation

This plan is approved for soil erosion and

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

meets technical requirements.

219 of the Specifications and as shown on SDP-03-136

A 8" SEWER

8"∨

6" WATER

6" V

8"X6" T

8" WATER

8" 1/8HB

8" 1/8VB

I EACH

QUANTITIES

2 EACH

I EACH

IEACH

2 EACH

ELIMINATED

QUANTITIES

1 EA

32 LF

1 EA

**QUANTITIES** 

**ESTIMATED** 

10 LF

1 EA

1 EA

1 EA

268 LF

4 EA

2 EA

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

DIAMOND/HUGHES PLASTIC

KENNEDY/HUGHES

MANUFACTURER SUPPLIER

GRIFFIN PIPE PROD

KENNEDY/HUGHES

TYLER/HUGHES

GRIFFIN PIPE PROD.

-

AS-BUILT

TYPE

D. I.P.

D.I.P.

D. I. P.

D.I.P.

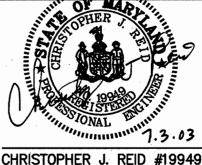
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AS-BUILT DATE MAY 04

SURVEY AND DRAFTING DIVISION

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. Columbia, MD 21045 T 410.997.8900



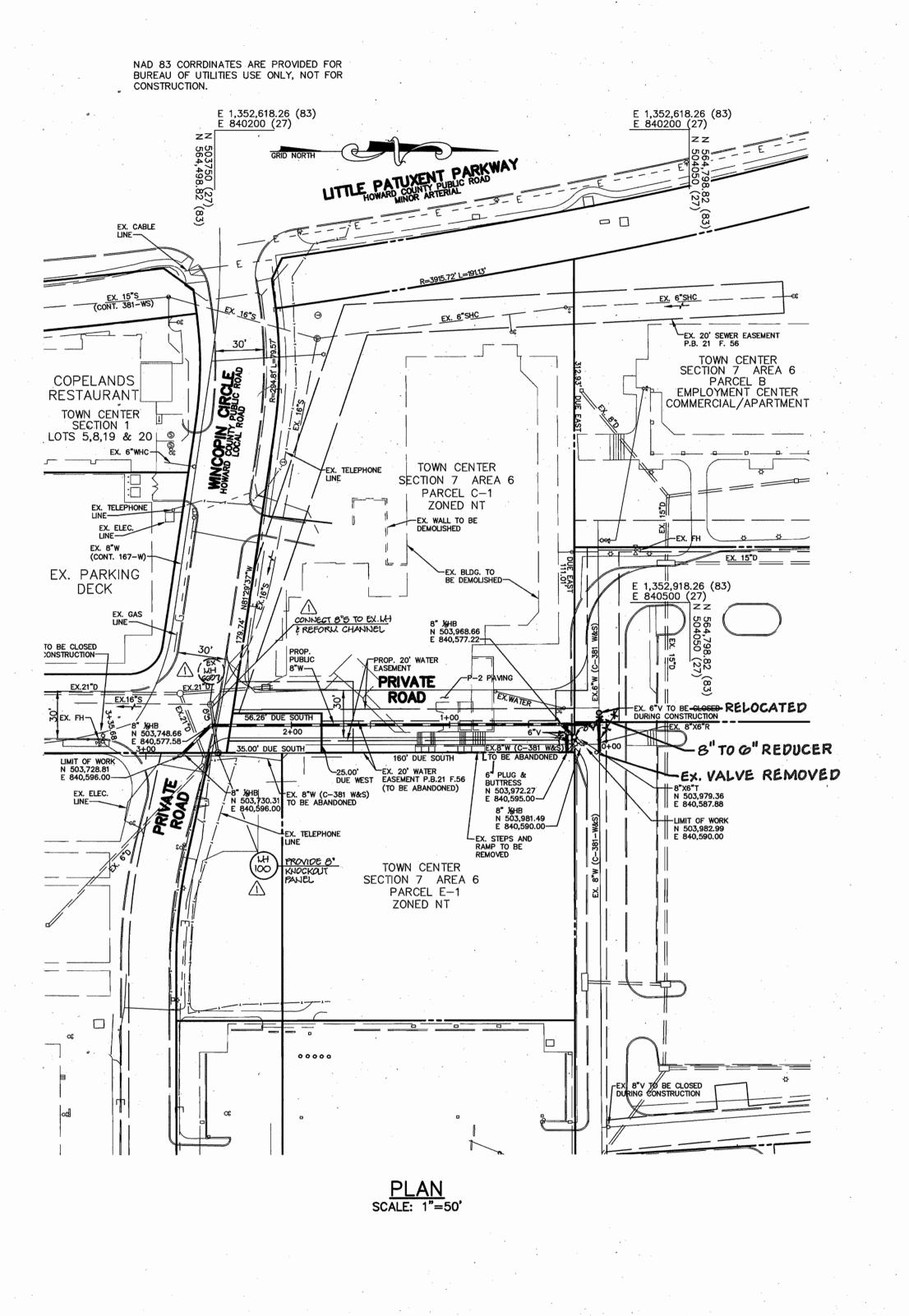
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7.3.03	DATE	7 /7 /07	DAN	$\bigcirc$	added sewer	-	11:6.03	
#19949	DATE: 7/3/03 BY			NO.	REVISION	DATE		600' SCALE MAP NO. 36 BLOCK NO.

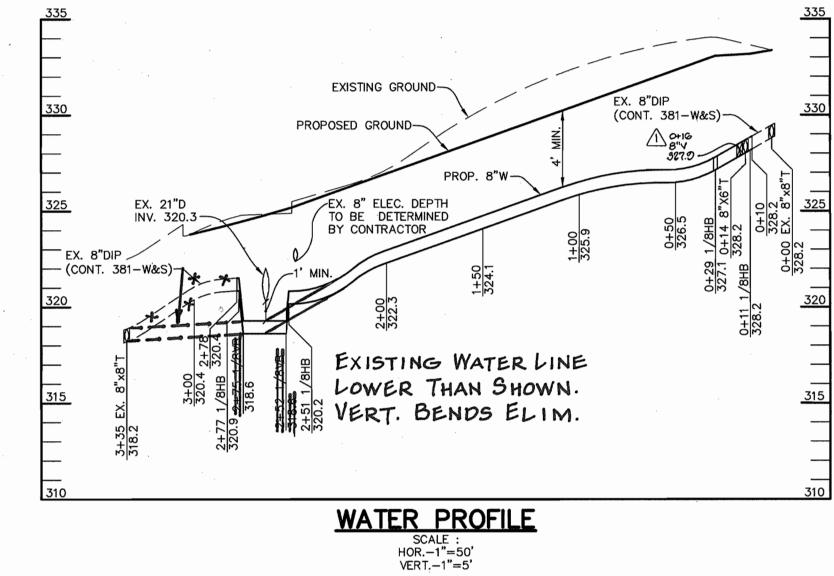
COLUMBIA TOWN CENTER SECTION 7 AREA 6 PARCEL C-1, PART 2 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-4150-D △

SHEET 1\_0F\_2

**SCALE** 

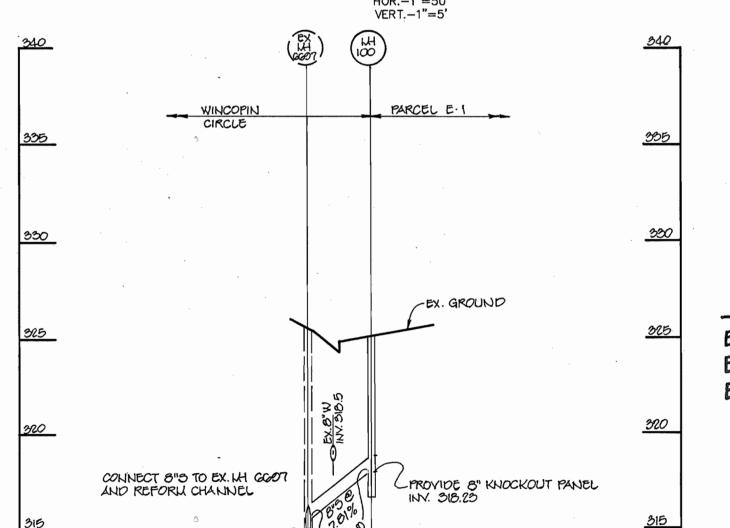
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# WATERLINE BUILDING CONN. ASBUILTS

Ex. F.H. To W.B.C. ... 138' 8" VALVE TO W.B.C. ... 20.5' 6" VALVE TO W.B.C. ... 25.5' 6" W.B.C. VALVE TO W.B.C. ... 14'



6x.16°5/ 314.87 (381-W5)

SEWER PROFILE

SCALE: HOR.: 1"=50"

VERT.: 1"=5"

600' SCALE MAP NO. 36 BLOCK NO.

# NEW SANITARY MH ASBUILTS

Ex. F.H. To SMH-100 .... 73.5' Ex. S.D. MH To SMH-100 ···· 42.5' Ex. SAN. MH No. 6007 To SMH-100 ···· 29.3'

> AS BUILT DATE: MAY 2004

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. R+A 8818 Centre Park Drive Columbia, MD 21045
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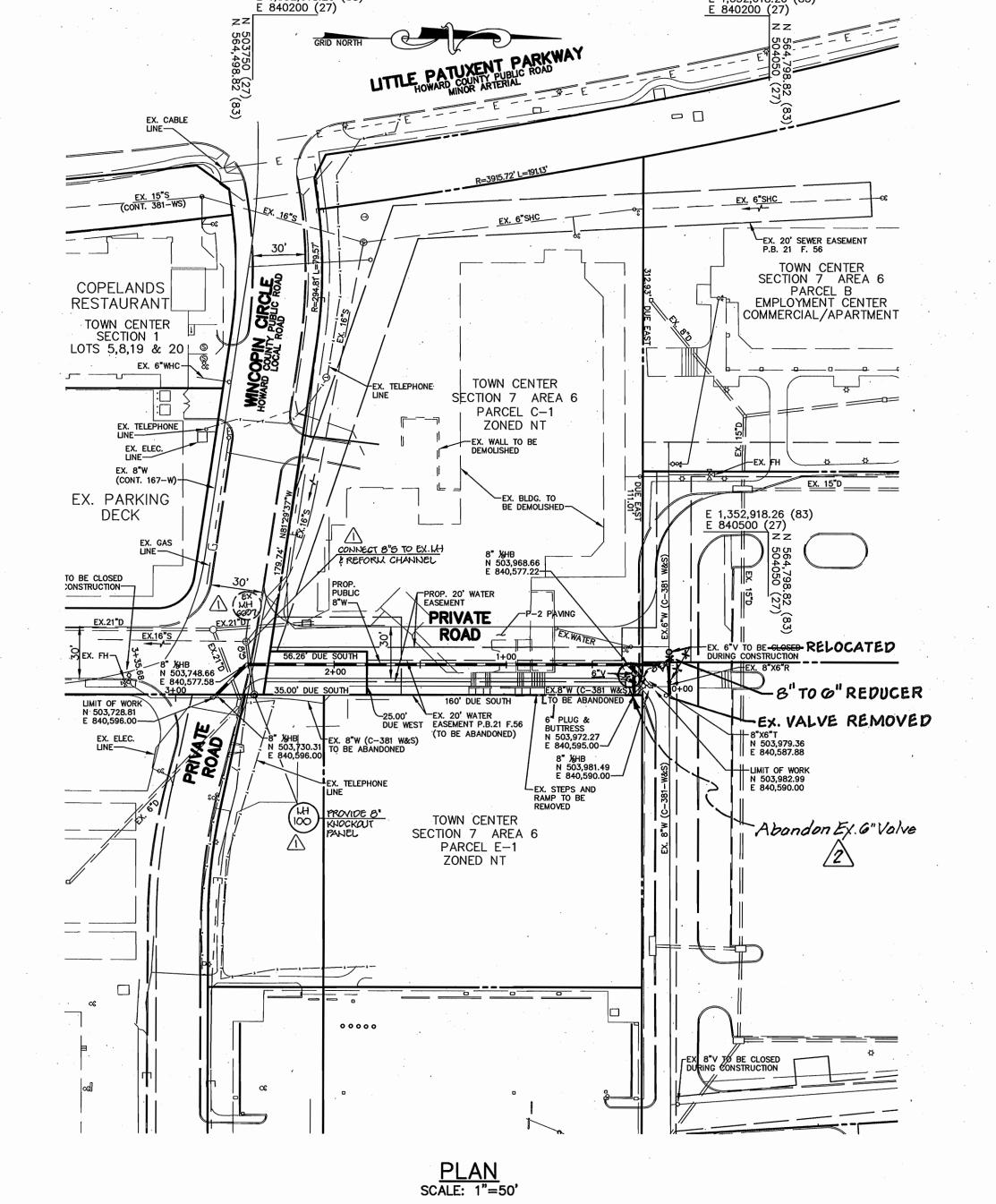
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.3.63	DATE 7 /7 /07	MAD	$\triangle$	ADDED SEWER TO PARCEL E.1, SEWER PROFILE & 6"V	
ininininininininininininininininininin	CHK: DAM				
	DRN: DRH				
	DES. C.U.K.				
	DES: C.J.R.				

PLAN VIEW AND PROFILES OF WATER AND SEWER WAINS A

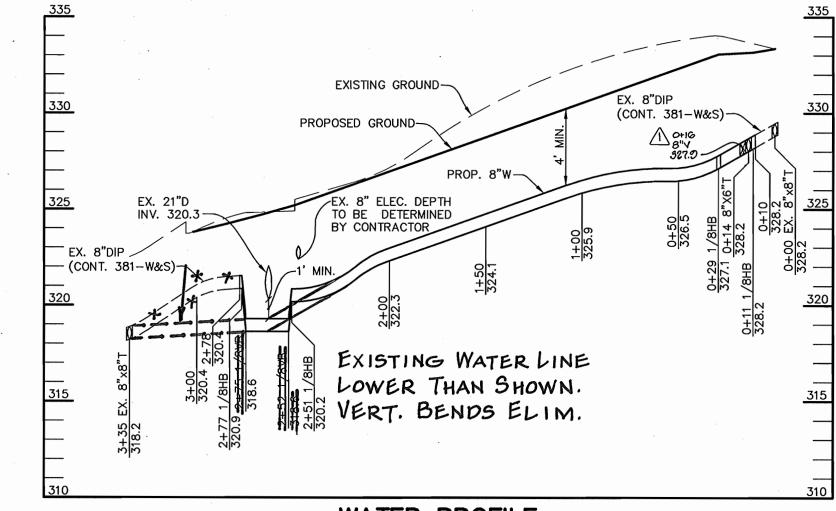
COLUMBIA TOWN CENTER SECTION 7 AREA 6 PARCEL C-1, PART 2 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-4150-D A

SCALE AS SHOWN

SHEET
2 OF 2

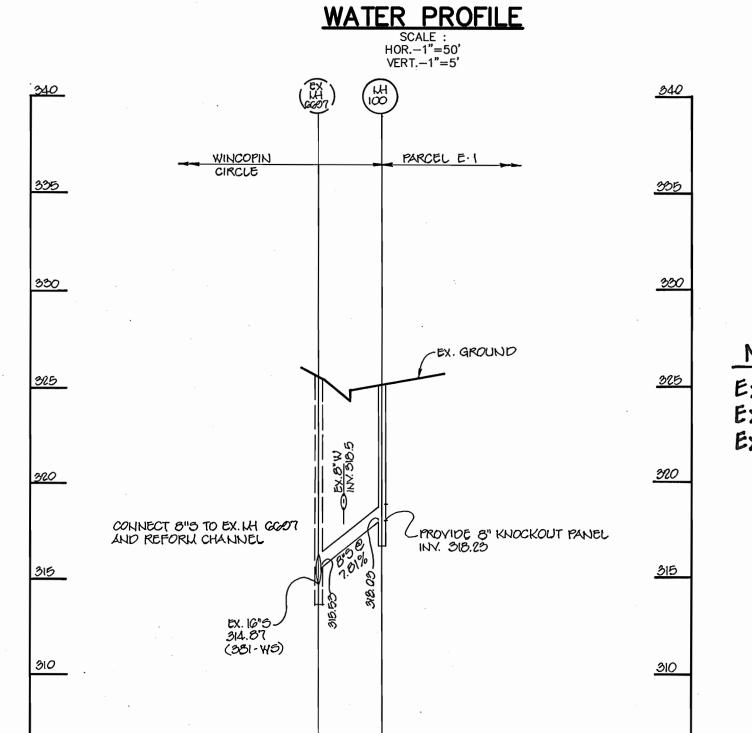


NAD 83 CORRDINATES ARE PROVIDED FOR BUREAU OF UTILITIES USE ONLY, NOT FOR CONSTRUCTION.



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SEWER PROFILE

SCALE: HOR.: 1" = 50"

VERT.: 1" = 5"

600' SCALE MAP NO. \_\_\_\_36

# NEW SANITARY MH ASBUILTS

Ex. F.H. To SMH-100 ···· 73.5' Ex. S.D. MH To SMH-100 ···· 42.5' Ex. SAN. MH No. 6007 To SMH-100 ···· 29.3'

AS BUILT
DATE: MAY 2004

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Patton Harris Rust & Associates, pc
Engineers. Surveyors. Planners. Landscape Architects.

8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

OPHER TOPHER OF THE PROPERTY O
15TO NAL THE TOTAL TO A S 3 A 3 A 3
7.3.03
CHRISTOPHER J. REID #19949

						,
144	DES: C.J.R.					
	DRN: DRH					
11111						
rrit	CHK: DAM	suc	2	Abondoned Ex. 6" V		1.9.
1.3.03	DATE 7 /7 /07	MD	$\leq$	ADDED SEWER TO PARCEL E-1, SEWER PROFILE & 8"V	~	11.0.
#19949	DATE: 7/3/03	BY	NO.	REVISION	DATE	

PLAN VIEW AND PROFILES
OF WATER AND SEWER WAINS A

BLOCK NO.

COLUMBIA TOWN CENTER

SECTION 7 AREA 6

PARCEL C-1, PART 2

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT 24-4150-D

SCALE AS SHOWN

SHEET
2 OF 2