SHEET INDEX TITLE SHEET

PLAN AND PROFILES OF WATER & SEWER MAINS

# WATER AND SEWER EXTENSIONS OFFICE RESEARCH PARK

PARCEL 1-2 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4128-D

# CONTRACT W & S Code COMMERCIAL (OFFICE) DRAINAGE AREA: 108 P.S. TREATMENT PLANT: LITTLE PATUXENT WRP County Use Water No. G02 NUMBER OF BUILDABLE LOTS: 1 Sewer No. 5750639 NUMBER OF NON-BUILDABLE LOTS: 0 Test Gradient: 780 NUMBER OF W.H.C.: 1 Zone: 630 NUMBER OF S.H.C.:

## BENCH MARK

HOWARD COUNTY CONTROL STATION 30FB

HOWARD COUNTY CONTROL

STATION 30FC N 572,916.535 (NAD 83) N 512,168 (NAD 27) E 1,364,670.171 (NAD 83) E 852,252 (NAD 27)

# QUANTITIES

	QUANTITIES ESTIMATED	AS-BUILT			
ITEMS		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER	
6" WATER	8 LF				
8" WATER	185 LF				
8" SEWER	11 LF				
8"X6" T	2 EA.	p.	a		
8"X8" T	2 EA.				
8" PLUG & BUTTRESS	2 EA.	. `			
8" 1/8HB	2 EA.				
6" VALVE	1 EA.				
8" VALVE	2 EA.				
FIRE HYDRANTS	1 EA.				

NAME OF UTILITY CONTRACTOR

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SDP-04-038.

CHECKBOX AS-BUILT DATE SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and meets technical requirements.

10-12-13

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

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



1.63					
		·	·		
1.03	DATE: 10/1/03				
Thum.	CHK: CJR				
	DRN: DAM				
	DEG, DAIVI				
	DES: DAM			•	

TITLE SHEET

BLOCK NO.

600' SCALE MAP NO. 30

COLUMBIA 100 OFFICE RESEARCH PARK SECTION ONE, AREA TWO, PARCEL J-2 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 2

CONTRACT NO. 24-4128-D

N 570,134.286 (NAD83) N 509,385 (NAD27) E 1,365,194.137 (NAD 83) E 852,776 (NAD 27) ELEV. 500.63

**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 as projected by Howard County Horizontal and Vertical Geodetic Control Station Numbers 34B2 and 34CA.
- 3. All vertical controls are based on NAVD 88.

Miss Utility

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 money 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.
- 7. Where test pits have been made on existing utilities, they are noted by the symbol  $\bigoplus$  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.
- 8. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

BGE (Contractor Services) BGE (Underground Damage Control) Bureau of Utilities Colonial Pipeline Co. State Highway Administration

1-800-252-1133 410-850-4620 410-787-9068 410-313-4900 410-795-1390 1-800-257-7777 410-531-5533

- 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

### 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.
- 7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in
- 8. For sprinkler systems for all town homes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

#### 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. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frames and covers is used, set top of frame 1"-6" above finished grade unless
- 6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

VICINITY MAP

							R=1845.95'    e	/15"D	
	WATER LINE STAKE NO. DESCRIPTION	COORDINATES		S09*56'03*W 26.00'	MARYLAND PRINCIP	O ROUTE 100 STATE HIGHWAY AL ARTERIAL	R=1845.95 = 39.27 X	E 852 75	
	(1) 8"x8" T (2) 8" V (3) 8" 1/8 HB (4) 8" 1/8 HB (5) 8"x8" T (6) 8" V	N 509,766 E 852,375  N 509,766 E 852,378  N 509,771 E 852,404  N 509,767 E 852,409  N 509,638 E 852,433  N 509,639 E 852,436		CRED MORTH (NAD 27)	REVERTIBLE EASEMENT FOR SUPPORTING SLOPES (S.H.A. PLAT Nos. 54575 & 54576)	S 15'40'28" E 106.98' N 2'	PROP. IGHIPOLE,	1365168.14(83) (EX. BI	UILDING
	(7) 8"x6" T (8) 6" V (9) FIRE HYDRANT	N 509,640 E 852,442 N 509,638 E 852,442 N 509,632 E 852,443	·		GREASE TRAP	COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1, AREA 2 PARCELS I-1, J-2 & K-4 PLAT NO. 13431 ZONED POR PARCEL J-2	ICRETE ALK	PARC	CEL ' I '
			PAR A F	COLUMBIA 100 FICE RESEARCH PARK SECTION 1, AREA 2 RCELS N-1, O-1 & J-1 A RESUBDIVISION OF PARCELS N, O, & J PLAT NO. 12705	NTE 8"W -04-038) NTE 8"W -04-038) SN-12 SN-12	*"SEWER  "SEWER  "SEWER  "WATER SIDE METER DMESTIC &  4—STORY OFFICE BUILDING	EX. PUBLIC 20' DRAINAGE AND UTILITY EASEMENT (PLAT NO. 7525)	COLUMBIA 100 OFFICE RESEARCH PAR SECTION 1, AREA 2 PARCELS 1-1 PLAT NO. 13431	RK
				PARCEL '0-1'	20' PUBLIC WATER ! UTILITY EASEMENT (7) (8)	FFE = 472.0	PROP. PRIVATE ACCESS AND PARKING PASSMENT FOR PARCEL K-4  (PLAT NO. )	E. S. BUILDING	
				EX. 8 V TO BE CLOSED DURING CONSTRUCTION.  REMOVE EX. 8"W MAIN AND BUTTRESS AND ATTACH PROP. 8"W  BUTTRESS AND BUTTRESS AN	18"HDPE 2 5  RETAINING WALL #1 1+66= 0+00 1+71 F  AND B	TO PROPE	PUBLIC 8"S EX EX	EX.8°W (24-3734-D) EX.24°D EX.24°D EX.24°D	
	· · · · · · · · · · · · · · · · · · ·			09,850(27) 7,0598.94(83) -EX. BR	, > 11 Mil 1	-EX. BUILDING	PUBLIC SEWER, DRAINAGE AND UTILITY EASEMENT EX. PUBLIC 30' SEWER AND UTILITY EASEMENT (PLAT NO. 7525)	9.6 W 57.13	
				E 1364668.13(83) (24-1588-D) PARCELS PLAT	ABIA 100 SEARCH PARK 1 1, AREA 2 K-2 AND K-3 NO. 12386 EL 'K-2'	SDP-04-020	COLUMBIA 100	EX. 50' PRIVATE USE-IN-COVEASEMENT FOR PARCELS 1-7, AND K-4 (PLAT NO. 1343).	A 100/
						DE TOUR PER CONTRACTOR OF THE PER CONTRACTOR	OFFICE RESEARCH PARK SECTION 1, AREA 2 PARCEL K-4 PLAT NO. 13431 ZONED POR	OFFICE RESEAR SECTION 1, PARCELS H- PLAT NO.	-1 & K−1
				EX	20' PUBLIC DRAINAGE		PRO PUBLIC SEWER AND PROPERTY EASEMENT	Exe.25 (22) (23) (23) (23) (23) (33)	
				(P)	20' PUBLIC DRAINAGE TILITY EASEMENT IT NO. 12386)  EX.24*D	PUBLIC 20 WASHENT EUSEMENT	EX SMH D	EX.18"D  EX.18"D  EX.18"D  EX.30"D	
				EX.8°S (24-1588-D)	EX.8"S (24-1588-		EX.8"S (24-1588-D)  EX.8"S (24-1588-D)  EX.8"S (XM)	EX.12"W (2	
				PRIVATE PUBLIC	EX. 12"W (24-1588-D)  EX. 12"W (24-1588-D)  EX. 12"W (24-1588-D)	COLUMBI SMH HOWARD COUNTY	PUBLIC ROAD - MINOR SOLLECTOR	COLUMBIA 100 PARKWAY HOWARD COUNTY PUBLIC ROAD MINOR COLLECTOR	
	480 SMH-3	(SMH-2)	•	SMH-1) SMH-118	480 475 ————————————————————————————————————	PLAN SCALE: 1"=50'	475 480 PUE	LIC PRIVATE	480
	PROP. BLDG.				<u>475</u> <u>470</u>	PROPOSED GRADE -	470 475	PROPOSED GRADE PROP. BLDG. FFE 472.0	<u>475</u> ————————————————————————————————————
	12" ROOF DRAIN INV. 466.22		C12" ROOF DRAIN	SD 466.02	470 465  EX. 8"W  CONTRACT 24-1588-D  INV. 460	0.58 8" S INV. 461.93	465 470	12" ROOF DRAIN	470
	465 6"S 0.50%	8" W INV. 463.67 8"S @ 0.50%	12" ROOF DRAIN NOW 164.62   18"S @ 0.	.50%	465		460 465 ————————————————————————————————————	0+14 464.2	460
	462.5	461.87-		460.39	X8"TEE VALVE	0+28 1/8 HB 458.0 0+50 459.3 1+00 462.3	1+66 8"X8"TEE 464.2 1+71 8" PLUG AND 464.2 66	0+86 1/8 HE 464.2 1+03 8" VALVE 464.2 1+0	  455
		0+00 2+76		0+00	450 445	0+35 1/458.4	<u> </u>	0+00 8 X8 IEI 463.2 0 0+09 8"X6" FF 463.2 0+50 464.2 1+00 1+00 464.2 1+00	450
.*		<u>S</u>	SCALE: HOR1"=50' VERT1"=5'			NATER PROFILE  SCALE: HOR1"=50' VERT1"=5'		WATER PROFILE  SCALE: HOR1"=50' VERT1"=5'	
n Har ers. Surve	eyors. Planners. Landscape Architects.  8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		DES: DAM  DRN: DAM  CHK: CJR		PLAN AND WATER AND	PROFILES OF SEWER MAINS	SECTION ONE, AR 2nd ELEC HOWARD CO	FICE RESEARCH PARK EA TWO, PARCEL J—2 TION DISTRICT JNTY, MARYLAND NO. 24—4128—D	SCALE AS SHOWN SHEET 2 OF 2

600' SCALE MAP NO. \_\_\_\_30

DATE

BLOCK NO. \_\_\_\_18

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

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