### 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 SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S DATA.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR 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 DETAILS 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 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 W WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

C. & P. TELEPHONE STATE HIGHWAY ADMINISTRATION

865-3803 531-5533

B.G.&E. CO. CONTRACTOR SERVICES B.G.&E CO. UNDER GROUND DAMAGE CONTROL COLONIAL PIPELINE CO. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

1-800-257-7777

- BUREAU OF UTILITIES 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 LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

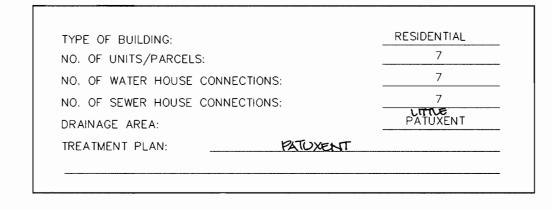
#### PART II - WATER

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' 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
- 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND 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
- 7. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

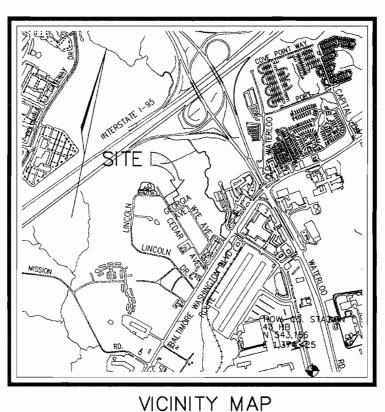
## PART III - SEWER

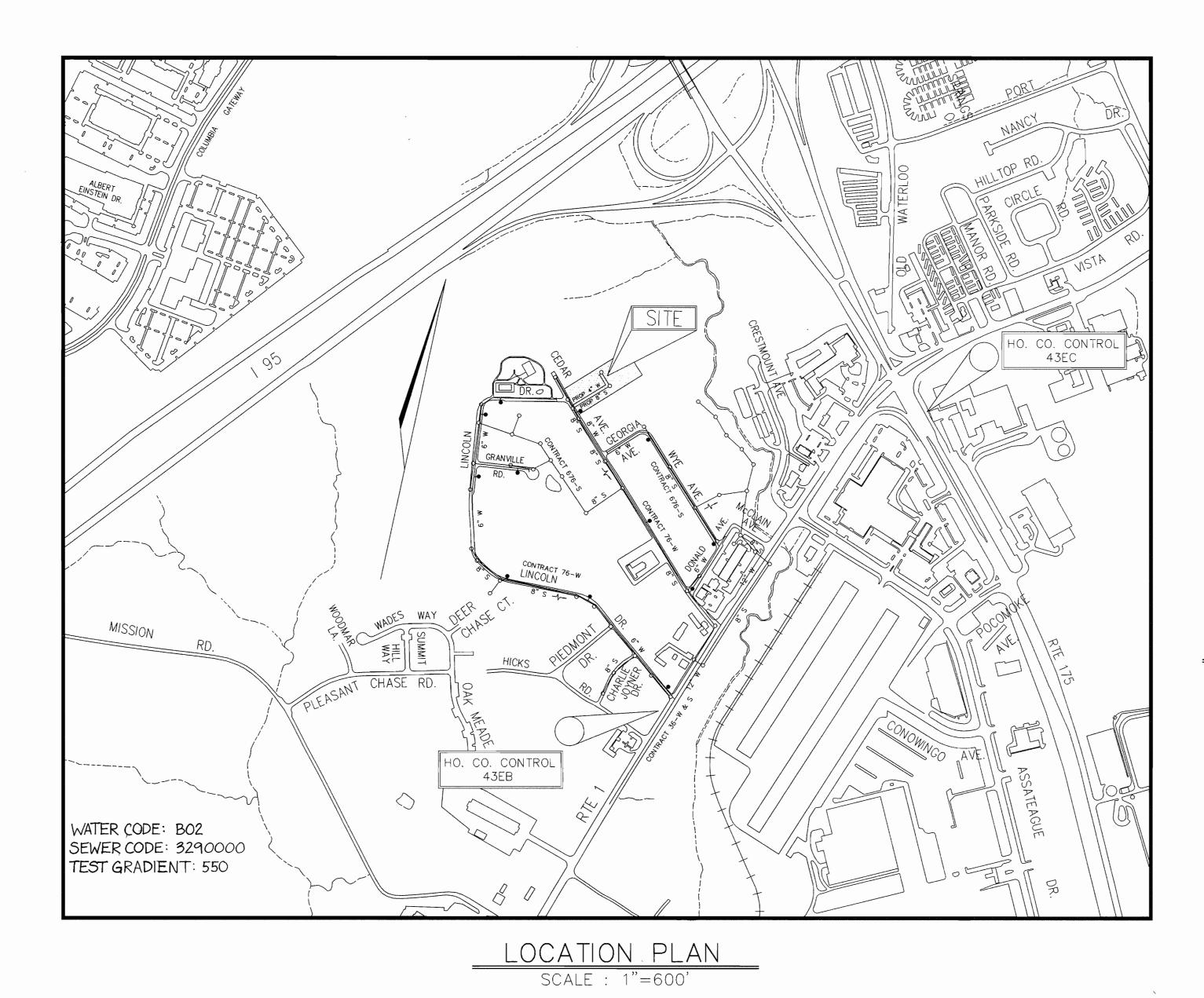
OTHERWISE NOTED.

- 1. FORCE MAINS SHALL BE DUCTILE IRON MINIMUM CLASS 52
- 2. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- 3. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS
- 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES
- 5. 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 18" ABOVE FINISHED GRADE UNLESS OTHERWISE
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



# THE CEDARS HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3983-D





		QUANT	TTIES		
NAME OF UT	ILITY CONTRACTO	OR:			
SURVEY AND	DRAFTING DIVIS	SION AS-BUILT DA	ATE:		
ITEMS	QUANTITIES	AS-BUILT			
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
8" SEWER MAIN	343 LF				
MANHOLE	3 EA.				
4" CAP & BUTTRESS	1 EA.				
4" SHC	100 LF -				
4" WATER MAIN	309 LF	_			
1" WHC	12 LF				
1-1/2" WHC	45 LF				
8" X 4" TEE	1 EA.				

BENCHMARKS

43EB N= 545963.658 FT E= 1371573.830 FT ELEV.= 216.991 FT 43EC N= 547821.276 FT E= 1372882.447 FT ELEV.= 220.369 FT

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN. + GP.02.41

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

L CONSERVATION DISTRICT

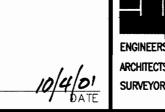
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS

Jam III mun J.S. SOIL CONSERVATION DISTRIC



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND



FREDERICK WARD ASSOCIATES, INC. ENGINEERS | 7125 Riverwood Drive Columbia, Maryland 21046-2354 ARCHITECTS | Phone: 410-290-9550 Fax: 410-720-6226

Columbia, Maryland

DRN: JT Warrenton, Virginia DATE: JULY 2001 REVISION

TITLE SHEET

600' SCALE MAP NO. 43 BLOCK NO.

THE CEDARS CONTRACT NO. 24-3983-D

TAX MAP #43 GRID 8 6TH ELECTION DISTRICT

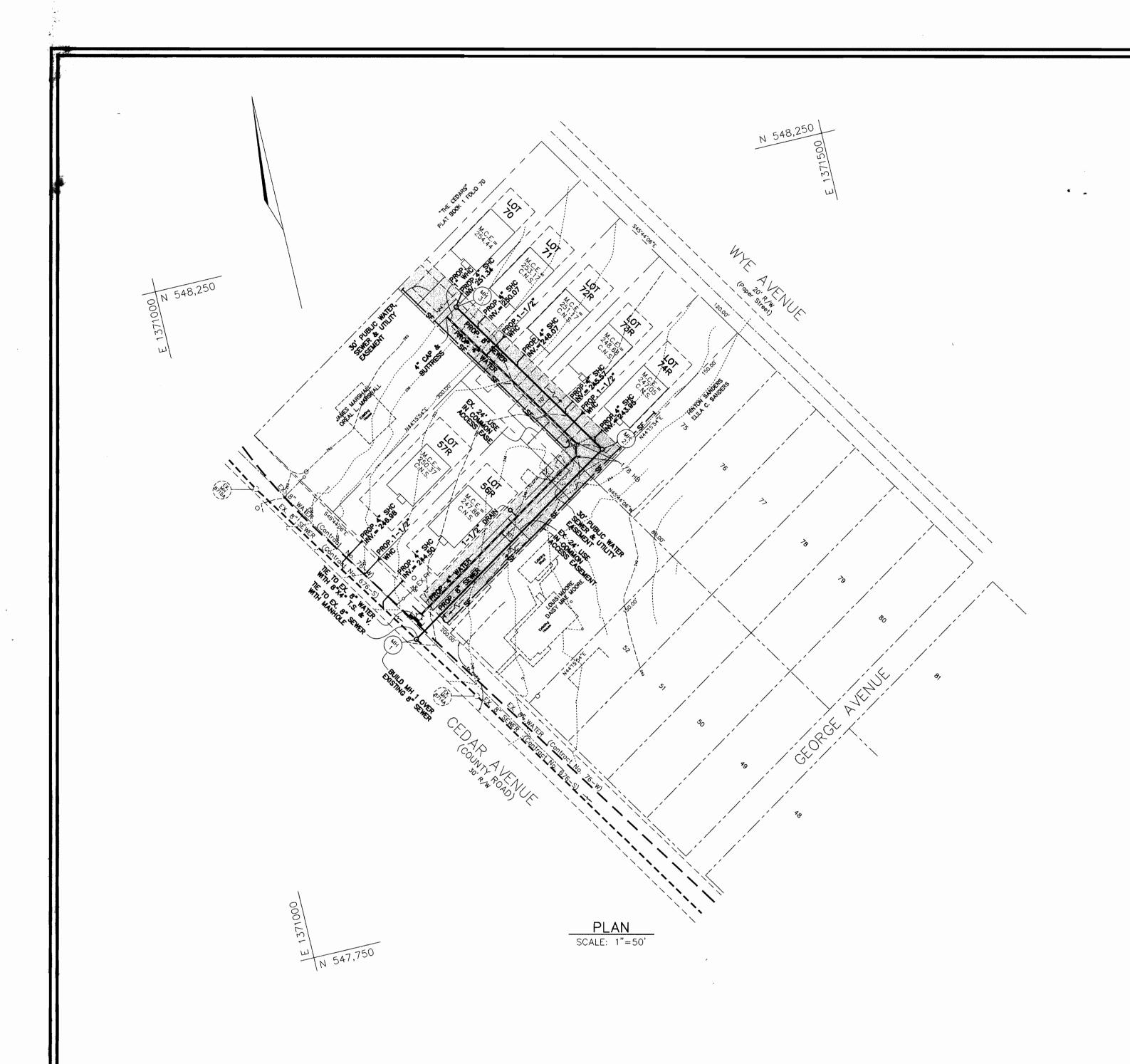
AS SHOWN PARCEL 608 & 142 1\_ OF\_ HOWARD COUNTY, MARYLAND

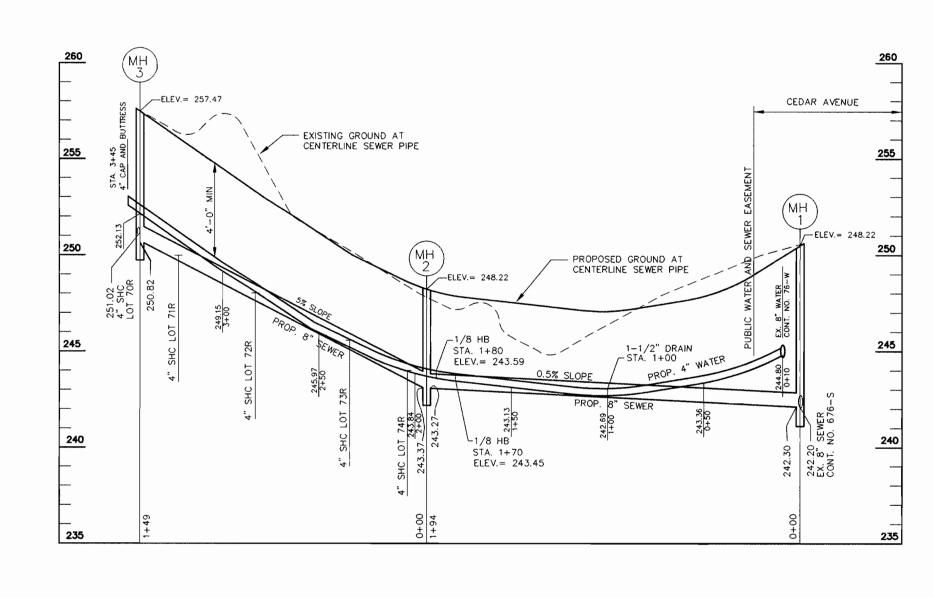
SCALE











WATER AND SEWER PROFILE

SCALE: 1"=50' HORZ.

1"=5' VERT.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN. +69.02.4)

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

US SOIL CONSERVATION DISTRICT



DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

FREDERICK WARD ASSOCIATES, INC.

ENGINEERS | 7125 Riverwood Drive Columbia, Maryland 21046-2354

ARCHÎTECIS | Phone: 410-290-9550 Fax: 410-720-6226

SURVEYORS | Bel Air, Maryland Columbia, Maryland Warrenton, Virg

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	DRN:	JT					
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	CHK:	JCO	***************************************		 		
/irainia		JEH Y			 		
Virginia DATE:	2001	BY	NO.		REVISION	1	

WATER AND SEWER PLAN AND PROFILE

600' SCALE MAP NO. 43\_BLOCK NO. 14\_

DATE

THE CEDARS CONTRACT NO. 24-3983-D

TAX MAP #43 GRID 8 6TH ELECTION DISTRICT

PARCEL 608 & 142 Howard County, maryland

SCALE AS ( SHOWN SHEET

2 of 2

#### GENERAL NOTES

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C. & P. TELEPHONE

COLONIAL PIPELINE CO.

STATE HIGHWAY ADMINISTRATION B.G.&E. CO. CONTRACTOR SERVICES B.G.&E CO. UNDER GROUND DAMAGE CONTROL

865-3803 531-5533 850-4620 787-9068 1-800-257-7777 313-4900

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM

NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR

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EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE

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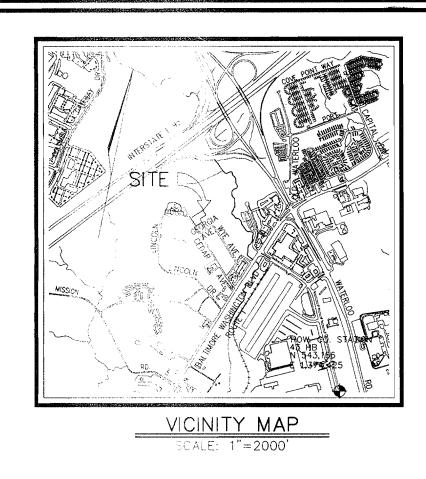
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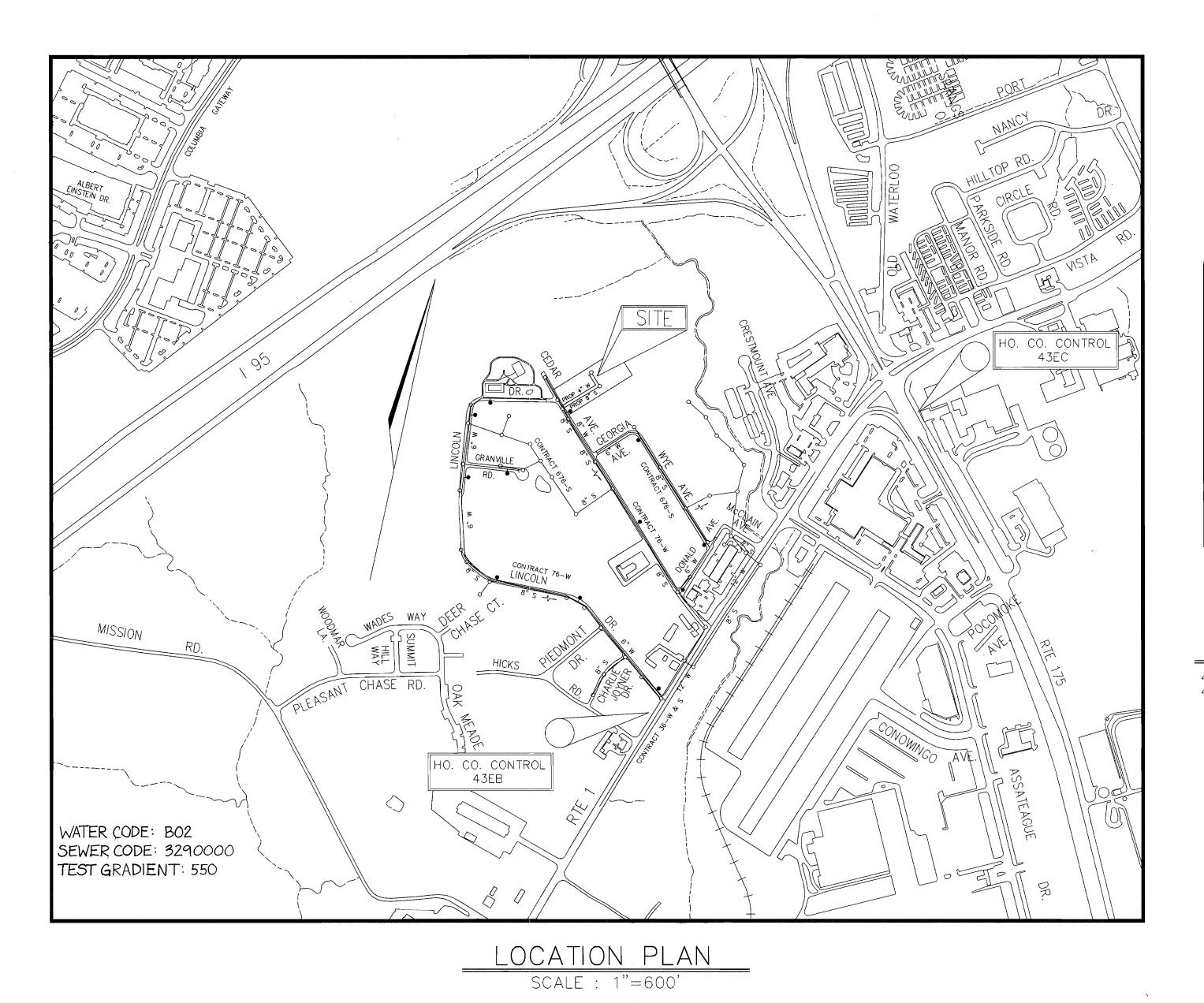
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- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

TYPE OF BUILDING:	RESIDENTIAL
NO. OF UNITS/PARCELS:	7
NO. OF WATER HOUSE CONNECTIONS:	7
NO. OF SEWER HOUSE CONNECTIONS:	7
DRAINAGE AREA:	PATUXENT
TREATMENT PLAN: PATUXENT	

# THE CEDARS HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3983-D





		QUAN	TITIES		
NAME OF UT	TILITY CONTRACTO	OR : UTILITIES UNL	IMITED		
SURVEY AND	DRAFTING DIVIS	SION AS-BUILT D	ATE:		
LTELAC	QUANTITIES	-	AS-	-BUILT	t
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER	R/SUPPLIER
-					
8" SEWER MAIN	343 LF	276 L.F.	SDR-35 PVC	J-M MANUFACTURING	U.S. FILTER
MANHOLE	3 EA.	3	PRECAST	FREDERICK PRECAST	
4" CAP & BUTTRESS	1 EA.	_	-		
4" SHC	100 LF	50 L.F.	SDR-35 PVC	J-M MANUFACTURING	U.S. FILTER
4" WATER MAIN	309 LF	310 L.F.	CL 52 D.I.P.	ATLANTIC STATES	11
1" WHC	12 LF	26 L.F.	TYPE 'K'	READING TUBE	tı
1-1/2" WHC	45 LF	58 L.F.	TYPE 'K'	READING TUBE	ti
8" X 4" TEE	1 EA.	1	STAIN STEEL	MUELLER CO.	U.S. FILTER

BENCHMARKS

43EB N= 545963.658 FT E= 1371573.830 FT ELEV.= 216.991 FT 43EC N= 547821.276 FT E= 1372882.447 FT ELEV.= 220.369 FT

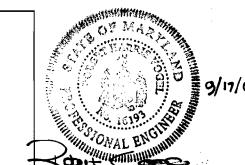
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN.  $+\mathcal{GP}\cdot 02\cdot 41$ 

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

CONSERVATION DISTRICT

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS





DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND



FREDERICK WARD ASSOCIATES, INC. ENGINEERS | 7125 Riverwood Drive Columbia, Maryland 21046-2354 ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226 surveyors | Bel Air, Maryland Columbia, Maryland Warrenton, Virgi

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_•	ĺ	1111	TML		PER AS-BUILT	1-11-02	
ginia	DATE:	JULY 2001	BY	NO.	. REVISION	DATE	60

TITLE SHEET 600' SCALE MAP NO. (<u>43</u> block no.)

THE CEDARS CONTRACT NO. 24-3983-D SCALE

SHOWN

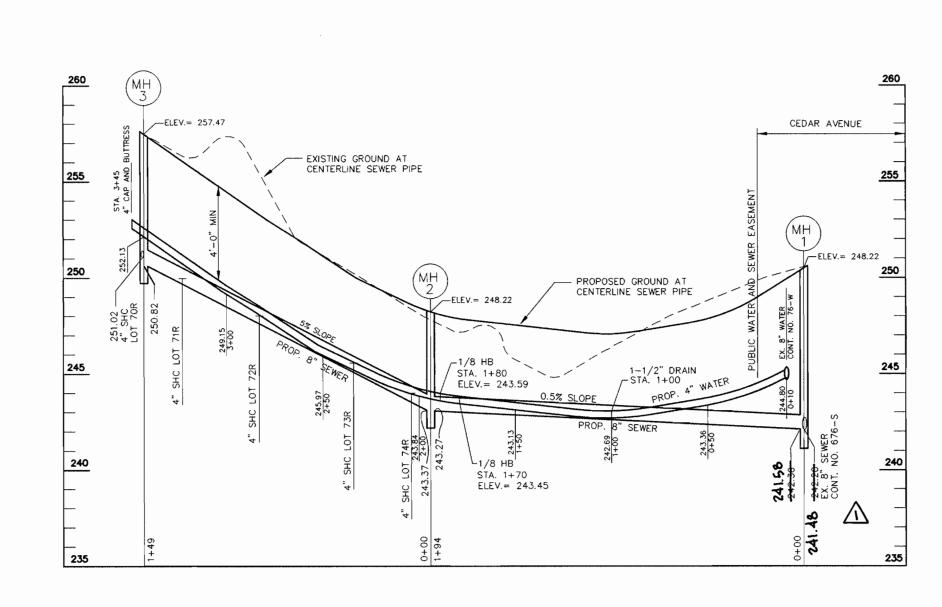
SHEET

<u> 1</u> of <u>2</u>

TAX MAP #43 GRID 8 PARCEL 508 & 142 HOWARD COUNTY, MARYLAND 6TH ELECTION DISTRICT







WATER AND SEWER PROFILE

SCALE: 1"=50' HORZ.

1"=5' VERT.

# WATER HOUSE CONNECTIONS

LOT He	FROM	TO	DISTANCE
56R	M#1	W.H.C. SGR	52.5 L.F.
56 R	5.H.C. 56R	W.H.C. 56 R	6.0 L.F.
56R	WH.C. 57R	W.H.C. 56R	30.0 L.F.
67R	M#1	W.H.C. 57R	79.0 L.F.
57 R	5.H.C. 57R	W.H.C. 57R	2.0 L.F.
57R	W.H.C. 56R	W.H.C. 57R	30.0 L.F.
4" VALVE	M(#ı	4" VALVE	16.0 L.F.
4" VALVE	EXIST, F.H.	4" VALVE	22.0 L.F.
4" VALVE	exist. F.H.V.	4" VALVE	18.5 L.F.
11/2" BLOW-OFF	M#2	11/2" BLOW-OFF	88.5 L.F.
1/2"BLOW-OFF	BLDG. CNR.	11/2" BLOW-OFF	7.0 L.F.
		172 02 11 011	7.0 2.4.
TOR	M! #3	WH.C. TOR	16.0 L.F.
70R	5.H.C. 70R	W.H.C. 70R	6.5 L.F.
718	M+3	W.H.C. 71R	41.5 L.F.
718	5.H.C. 71B	W.H.C. TIR	18.0 L.F.
718	W.H.C. 72R	W.H.C. 71R	3.0 L.F.
728	M#3	W.H.C. 72R	43.5 L.F.
72 R	WHC. TIR	W.H.C. 72 R	30 L.F.
728	5.4.C. 72R	W.H.C. 72B	19.0 L.F.
73 R	M(#2	W.H.C. 73R	32.0 L.F.
73R	5H.C. 73R	W.H.C. 73R	10.0 L.F.
73 R	W.H.C. 74R	W.H.C. 73R	3.5 L.F.
74R	M+2	WHC. 74R	28.5 L.F.
748	W.H.C. 73R	W.H.C. 74R	3.5 L.F.
74 R	5H.C. 74R	W.H.C. 74R	17.5 L.F.

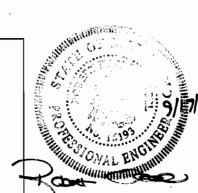
## SEWER HOUSE CONNECTIONS

LOT Nº	FROM	То	DISTANCE
57R	M#1	5H.C. 57R	81.0 L.F.
57R	W.H.C. 57R	5H.C. 57R	2.0 L.F.
56R	M#1	5.H.C. 56R	46.0 L.F.
56 R	W.H.C. 56R	5.H.C. 56R	6.0 L.F.
56R	exist. F.H.	5.H.C. 56R	10.0 L.F.
	. (	,	
70R	M #3	5.H.C. 70R	13.0 L.F.
70R	W.H.C. 70B	5.H.C. 70R	6.5 L.F.
70R	5.H.C. 71R	5.H.C. 70R	25.5 L.F.
	.1.1.		
718	MI #3	5.H.C. 71B	24.0 L.F.
אוד	5HC.70R	5.H.C. 71R	25.5 L.F.
אוד	W.H.C.71R	5.H.C. 71R	18.0 L.F
72R	M1#3	5.H.C. 72.R	62.0 L.F.
728	WHC. 72B	5H.C. 72R	19.0 L.F.
72R	5.H.C. 73R	5.H.C. 72R	49.0 L.F.
	4	,	
738	M(#2	5.H.C. 73B	41.5 L.F.
738	W.H.C. 73R	5.H.C. 73R	10.0 L.F.
73R	5.H.C. 72R	5.H.C. 73R	49.0 L.F.
-10			
748	M#2	5.H.C. 74R	14.5 L.F.
748	W.H.C. 74 R	5.H.C. 74B	17.5 L.F.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN.  $\downarrow$  GP-O2-4)

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

FREDERICK WARD ASSOCIATES, INC.

ENGINEERS | 7125 Riverwood Drive Columbia, Maryland 21046-2354

ARCHITECTS | Phone: 410-290-9550 Fax: 410-720-6226

SURVEYORS | Bel Air, Maryland Columbia, Maryland Warrenton, Virg

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	CHK:	JCO				
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jinia DA	DATE:	2001	BY	NO.	REVISION	DA

WATER AND SEWER PLAN AND PROFILE

600' SCALE MAP NO. 43\_ BLOCK NO. 14

THE CEDARS CONTRACT NO. 24-3983-D

TAX MAP #43 GRID 8 6TH ELECTION DISTRICT

PARCEL 608 & 142 Howard County, maryland

SCALE AS SHOWN SHEET

2 of 2