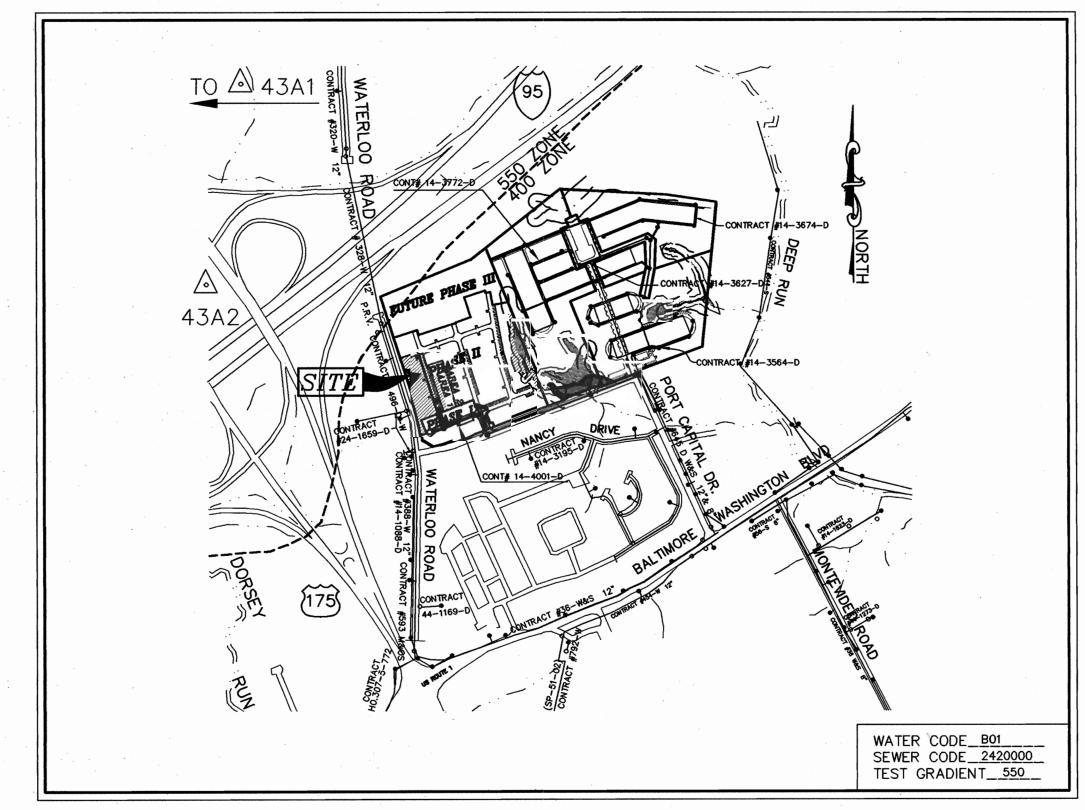
QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER MAIN	396 L.F.		-	
6" WATER MAIN	35 L.F.		,	
1 1/2" WHC	770 L.F.		,	
# WHC	30			
F.H.	2			
8"x6" T	2			
8"x8" T	1			
8" V	. 2			
6" V	2			
8" PLUG & BUTTRESS	2			
1/8 HB	2			
			-	
		•	-	
SURVEY AND DRAFTING DIV	ISION AS-BUILT	DATE		
NAME OF UTILITY CONTRAC	TOR:			



VICINITY MAP

TYPE OF BUILDING	RESIDENTIAL -	- SFA		
No. OF UNITS		30		
No. OF WATER HOUSE CONN	NECTIONS	30		
No. OF SEWER HOUSE CONN	NECTIONS	0		
DRAINAGE AREA	DEEP RUN, PAT	APSCO_		
TREATMENT PLANT PATAPSCO WASTEWATER TREATMENT				
	PLANT, BAL	TIMORE		

PLAN REFERENCE NUMBERS SDP-03-102 SDP-04-54

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER SDP-04-54

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. DEVELOPER'S SIGNATURE MARK LEVY, VILLA ASSOCIATES DEVELOPER'S NAME I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT T WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

CONTRACT NO. 14-4125-D VILLAGE TOWNS, PHASE II, AREA EXTENSIONS AND SEWER HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS OWNER/DEVELOPER VILLA ASSOCIATES, LLC

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.

2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES. [NORTH AMERICAN DATUM OF 1983 (NAD '83)]

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 REQUIRED. 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 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 DETAIL FOR CONSTRUCTION (LATEST EDITION). 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 UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT & T BG & E CO. CONTRACTOR SERVICES (410) 850-4620 BG & E CO. UNDERGROUND DAMAGE CONTROL (410) 787-9068 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS (410) 313-4900 BUREAU OF UTILITIES (DPW) 1-800-257-7777 (410)795-1390 COLONIAL PIPELINE CO.

STATE HIGHWAY ADMINISTRATION TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITH THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED

10. 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

THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/ JACKING OPERATION IN COUNTY ROADS 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.

12. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.

13. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE

14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.

16. 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 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.

17. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER

18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

19. SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER. SEE NOTES 34 & 36 BELOW.

20. ALL PRIVATE SEWER MAINS SHALL BE P.V.C. OR D.I.P. UNLESS OTHERWISE NOTED. 21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR

MANHOLE WALL.

22. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

23. FORCE MAINS SHALL BE D.I.P. ONLY.

24. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. 25. 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

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

27. ALL STATIONING SHOWN IS WATER MAIN STATIONING.

28. HOWARD COUNTY MAINTENANCE RESPONSIBILITIES END AT CLEANOUTS AND BALL VALVE LOCATIONS FOR PUBLIC MAINS.

29. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. 30. EXISTING WATER AND SEWER EASEMENT ADJACENT TO PORT CAPITOL DRIVE IS RECORDED UNDER LIBER 727/FOLIO 098.

31. SEDIMENT CONTROL APPROVED UNDER SDP-04-54.

ELEVATION 304.43

32. ALL ROADWAYS ARE STD. HOWARD COUNTY P-2 PAVEMENT UNLESS OTHERWISE SHOWN.

33. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 43A1 AND 43A2.

STATION 43A2 STATION 43A1 NORTHING 550784.342654

NORTHING 552081.810532 EASTING 1372040.182420 EASTING 1370625.809590 ELEVATION 292.55 ELEVATION 306.79

34. ALL INDIVIDUAL WHCs SHALL BE 1 1/2" WHC WITH A 1" METER IN A PIT AND ALL INDIVIDUAL SHCs SHALL BE 4" PVC. 35. THE FOLLOWING ON-SITE TRAVERSE STATIONS WILL SERVE AS BENCHMARKS

STATION 101 (TRV NAIL) NORTHING 550.180.485 EASTING 1,373,081.812

STATION 102 (TRV R+C) NORTHING 549,775.812 EASTING 1,373,246.975 ELEVATION 288.97

STATION 905 (TRV R+C)

NORTHING 549,975.527

EASTING 1,373,782.940

ELEVATION 255.51

36. ALL 1 1/2" WHCs SHALL BE SUPPLIED WITH A 1" WATER METER WITH AN INSIDE METER SETTING.

INDEX OF DRAWINGS

NO.	DESCRIPTION		
1	TITLE SHEET		
2	WATER AND SEWER PLAN & PROFILE		

FPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND.

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

C/O ROCK REALTY, INC. 25 MAIN STREET REISTERSTOWN, MARYLAND 21136 (410) 526-4030.

MILDENBERG, BOENDER & ASSOC., INC.

(410) 997—0296 Balt. (301) 621—5521 Wash. (410) 997—0298



2002-056 ÄPR 2004

REVISION

TITLE SHEET

BLOCK NO. 3

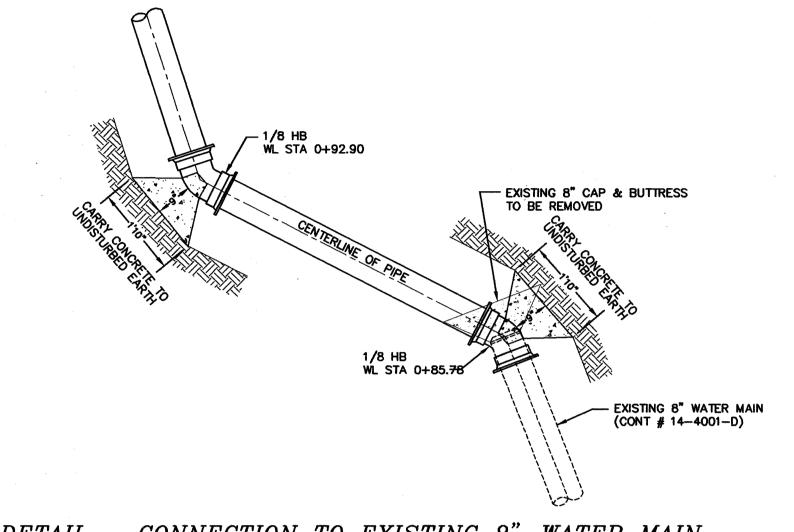
600' SCALE MAP NO. 43

VILLAGE TOWNS, PHASE II, AREA

UNITS 83 THRU 112 CONTRACT NO. 14-4125-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND AS SHOWN 1 of 2

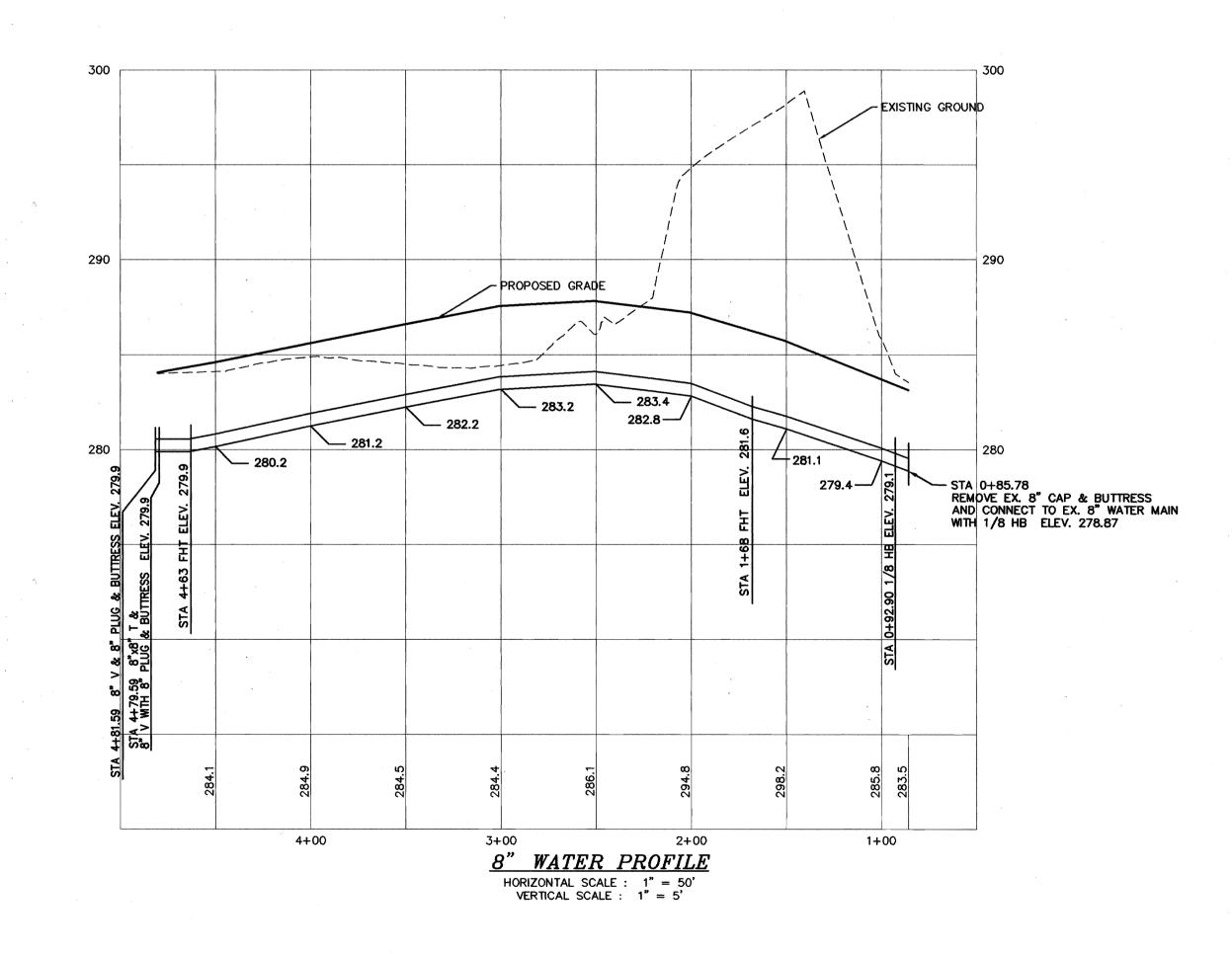
WATER MAIN APPURTENENCE LOCATION CHART

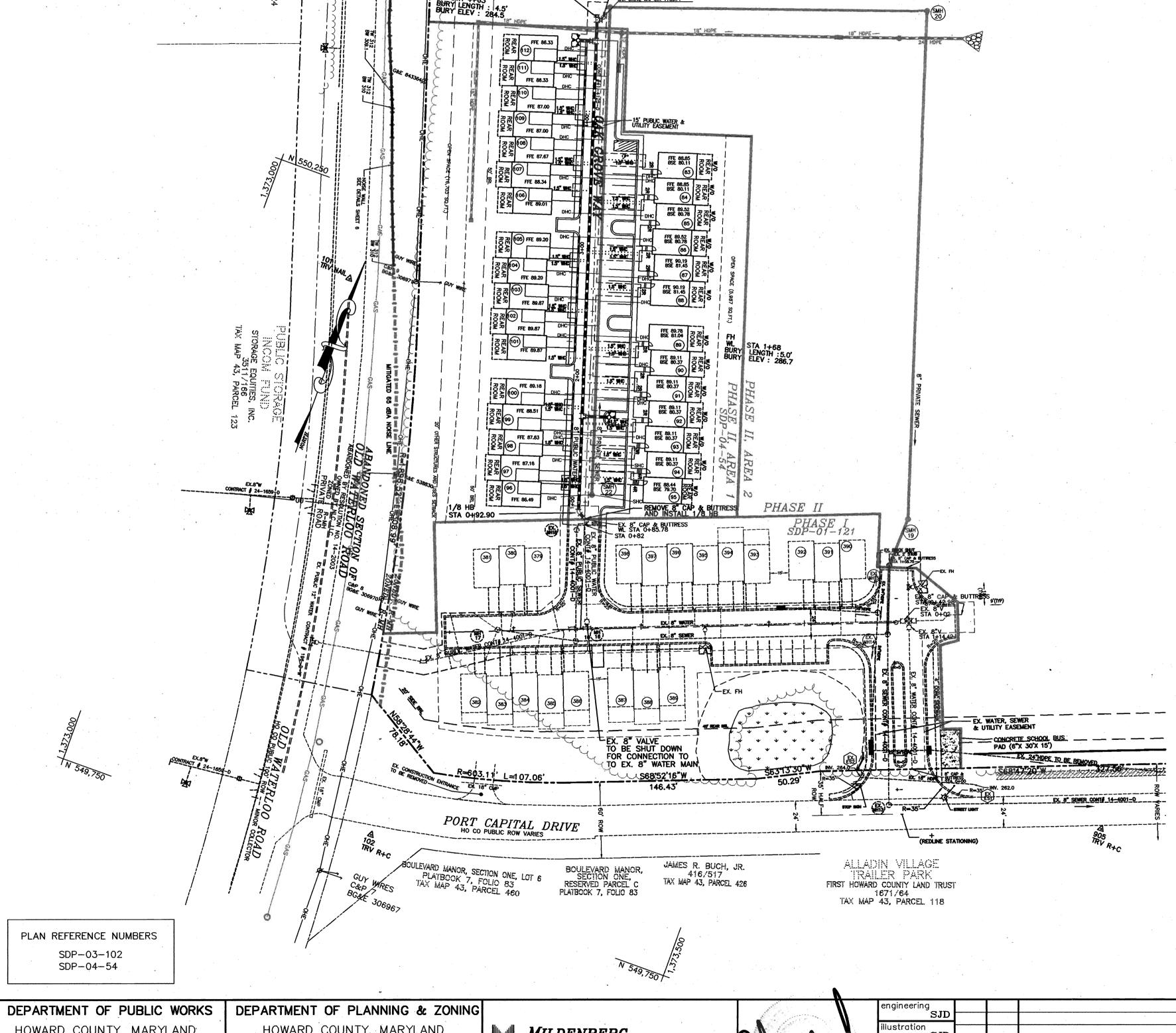
OAK GROVE WAY				
ROAD CL STA.	APPURTENENCE			
0+86.94, 0.04' RT 0+91.97, 5' LT. 1+67.07, 5' LT 1+67.07, 3' LT 1+67.07, 16.1' RT 4+62.07, 5' LT 4+62.07, 7' LT 4+62.07, 19.1' LT 4+78.66, 5' LT 4+78.66, 3' LT 4+80.66, 5' LT	1/8 HB 1/8 HB FHT 6" V FH FHT 6" V FH 8"x8" T 8"V WITH 8" P&B			



<u>DETAIL - CONNECTION TO EXISTING 8" WATER MAIN</u>

SCALE: 1" = 2'





FUTURE PHASE III

-8"X8" I & 8"V & PHASE II, AREA 2
WL STA 4+79.59

HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

MILDENBERG,
BOENDER & ASSOC., INC.

ate APR 2004 REVISION 600' SCALE MAP NO. 43

WATER AND SEWER PLAN & PROFILE

BLOCK NO. 3

VILLAGE TOWNS, PHASE II, AREA UNITS 83 THRU 112

CONTRACT NO. 14-4125-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

2 of 2