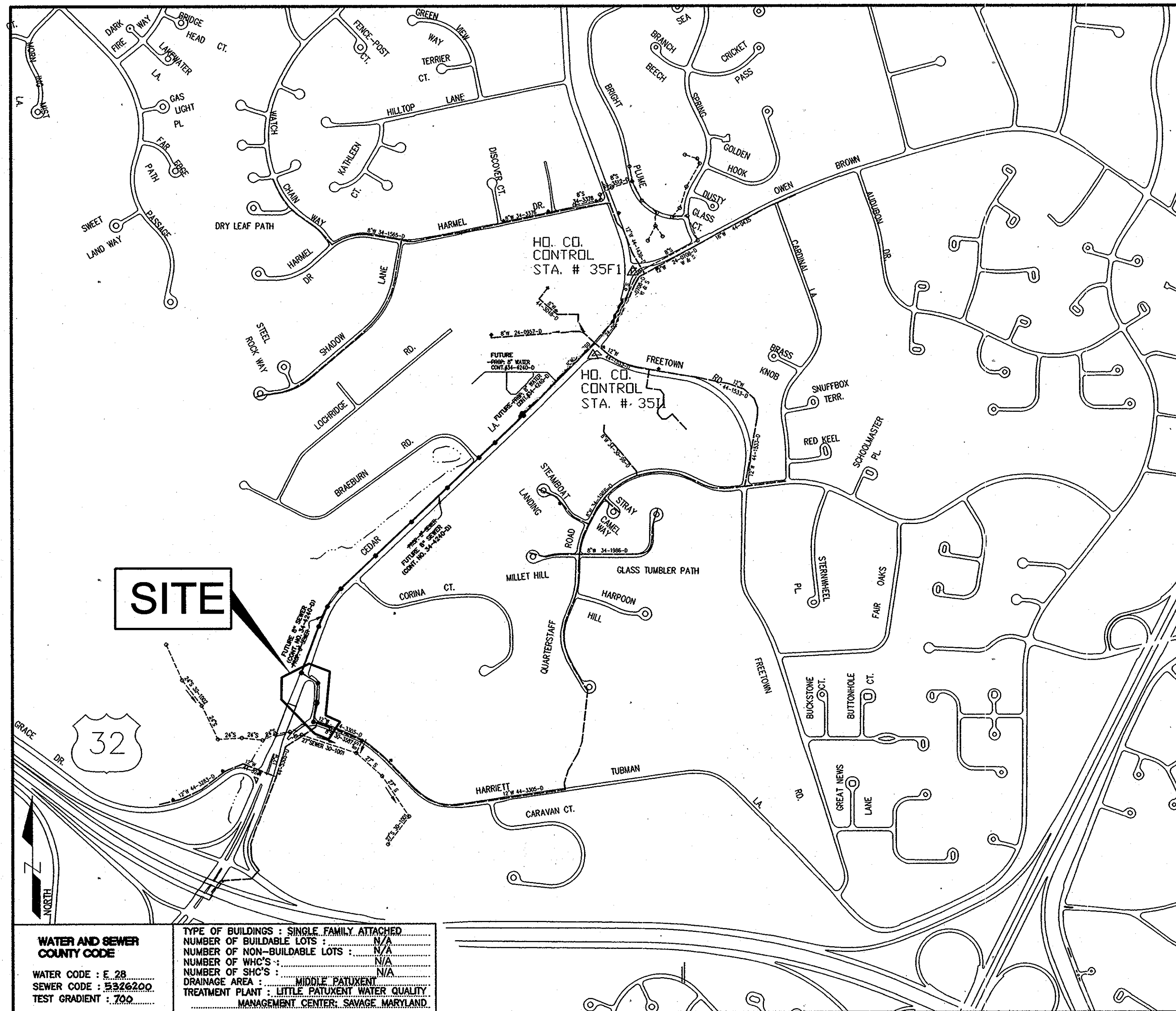


SHEET INDEX		
SHEET NO.	COVER SHEET	SHEET
1	COVER SHEET	
2	SEWER MAIN PLAN AND PROFILE	

PROPOSED PUBLIC WATER & PUBLIC SEWER MAIN CEDAR LANE SEWER MAIN EXTENSION 5th ELECTION DISTRICT, TAX MAP 35, GRID 17 HOWARD COUNTY, MARYLAND 21044

ITEMS	QUANTITIES ESTIMATE	QUANTITIES		AS-BUILT	
		QUANTITIES	TYPE	MANUF./SUPPLIER	
8" SEWER	640 L.F.	640 L.F.	PVC SDR-35	JM EAGLE	
MANHOLES	4 EACH	4	PRE CAST CONC.	ATLANTIC CONCRETE PRODUCTS	

NAME OF UTILITY CONTRACTOR: W.F. WILSON AND SONS
SURVEY AND DRAFTING DIVISION AS BUILT DATE: 9/14/09



- GENERAL NOTES :**
PART I
- 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 (North American Datum of 1983 (NAD '83)).
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as 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 monies 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 (C) 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 (5) working days before starting work shown on these plans:
AT&T 1-800-252-1133
BGE Contractor Services 410-850-4820
BGE Under Ground Damage Control 410-291-4807
Bureau of Utilities 410-313-4900
Colonial Pipeline Company 410-795-1590
Miss Utility 1-800-257-7777
State Highway Administration 410-531-5533
Verizon 1-800-743-0033 / 410-224-8210
 - 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.
 - 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 the DPW requirements per Section 18.114(a) of the Howard County Code.
 - All sewer mains shall be D.I.P or P.V.C. unless otherwise noted.
 - All manholes shall be 4'-0" inside diameter unless otherwise noted.
 - Force mains shall be D.I.P. only.
 - Manholes shown with 12" and 16" walls are for brick manholes only.
 - Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 05.02. Where watertight 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.
 - All water mains to be D.I.P. Class 52 unless otherwise noted.
 - Tops of all water mains to have a minimum of 3'-6" 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 restrained and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
 - The contractor shall not operate any water main valves on the existing water system.
 - All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
 - For sprinkler system for all townhomes or multi-family dwelling units will have a 1" connection with a 3/4" inside meters.

AS BUILT

DATE: 10/23/2009

UTILITY NOTE

Notify "Miss Utility" at 1-800-257-7777 - 48 hours prior to doing any excavation in this area.

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

WATER AND SEWER COUNTY CODE

WATER CODE : E 28
SEWER CODE : S 32 & 229
TEST GRADIENT : .700

TYPE OF BUILDINGS : SINGLE FAMILY ATTACHED
NUMBER OF BUILDABLE LOTS : N/A
NUMBER OF NON-BUILDABLE LOTS : N/A
NUMBER OF WHC'S : N/A
NUMBER OF SHC'S : N/A
DRAINAGE AREA : MIDDLE PATUXENT
TREATMENT PLANT : LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER, SAVAGE, MARYLAND.

VICINITY MAP
SCALE : 1" = 600'

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

John Meyer 3/10/05 DATE

U.S. NATURAL RESOURCES SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL AND SOIL CONSERVATION

John P. Roberts 3/10/05 DATE

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS

STATE HIGHWAY ADMINISTRATION	410-531-5533
BALTIMORE GAS & ELECTRIC CO.	410-850-4820
CONTRACTOR SERVICES	410-291-4807
BALTIMORE GAS & ELECTRIC CO.	410-787-0068
UNDERGROUND DAMAGE CONTROL	1-800-257-7777
MISS UTILITY	410-795-1590
COLONIAL PIPELINE CO	410-313-4900
HOWARD COUNTY DEPT. OF PUBLIC WORKS	410-313-2640
BUREAU OF UTILITIES	
HO. CO. ENVIRONMENTAL HEALTH DPT	

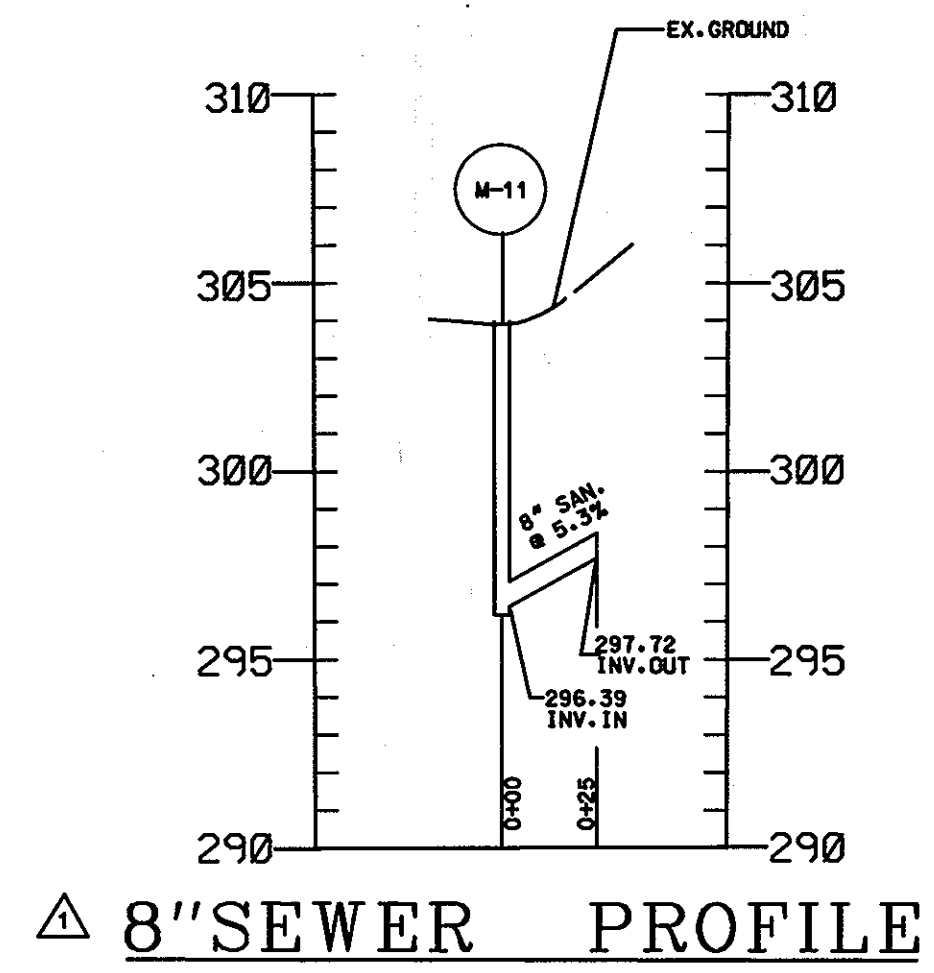
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>John P. Roberts</i> 3-19-05 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>John P. Roberts</i> 3/19/05 CHIEF, DEVELOPMENT ENGINEERING DIVISION	PREPARED BY : American Land Development and Engineering, Inc. 10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163 TEL. (410) 465-7903 FAX. (410) 465-3845	DES. : DW/AG DRN. : AVG CHK. : DW DATE: 2-28-05	CK <input checked="" type="checkbox"/> AS BUILT BY NO. REVISIONS DATE	COVER SHEET	CEDAR LANE SEWER MAIN EXTENSION BUILDABLE BULK PARCEL "A" - UNITS 1 THRU 55 AND COMMUNITY CENTER PLANNED SENIOR COMMUNITY (PSC) - AGE RESTRICTED ADULT HOUSING A RESUBDIVISION OF PARCELS 224 AND 236 5th ELECTION DISTRICT, TAX MAP 35, GRID 17, HOWARD COUNTY, MD. 21044 CONTRACT NO. : 34-4650 CAPITAL PROJECT S-6272	SCALE : AS SHOWN SHEET NO. 1 OF 2
---	---	---	--	--	--------------------	--	--

UNBIDDABLE PROJECTS: CEDAR VILLA II - FINAL WATER & SEWER - V-2 - SEWER - DWG, SHEET, 2/29/2005 11:52:04 AM, QWZ

ANNE S. ROBINSON
L. 00299 / F. 0279
P. 67
ZONE : RED

SPACE PROPERTY LLC
L. 03778 / F. 0584
P. 81
ZONE : B-1

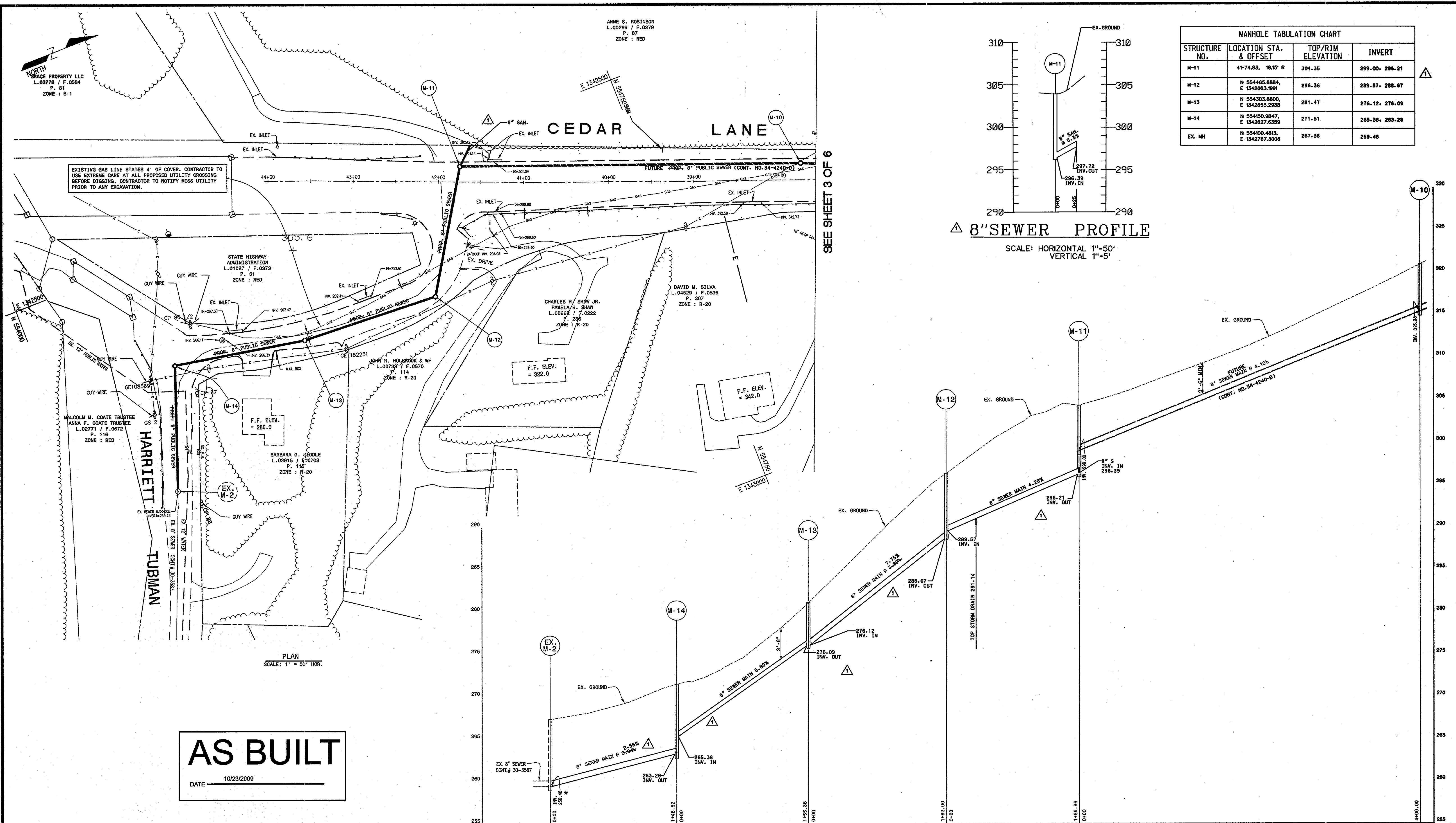
MANHOLE TABULATION CHART			
STRUCTURE NO.	LOCATION STA. & OFFSET	TOP/RIM ELEVATION	INVERT
M-11	41+74.83, 18.15' R	304.35	299.00, 296.21
M-12	N 554465.8884, E 1342863.1991	296.36	289.57, 288.67
M-13	N 554303.8800, E 1342655.2838	281.47	276.12, 276.09
M-14	N 554150.8847, E 1342627.6359	271.51	265.38, 263.28
EX. MH	N 554400.4813, E 1342767.3006	267.38	259.48



8" SEWER PROFILE

SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=5'

SEE SHEET 3 OF 6



PLAN
SCALE: 1" = 50' HOR.

AS BUILT

DATE: 10/23/2009

* EX. M-2 SHALL BE CORED AND CHANNEL BENCH FOR NEW CONNECTION

8" SEWER MAIN - PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VER.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	PREPARED BY: American Land Development and Engineering, Inc. 10749 BIRMINGHAM WAY WOODSTOCK, MD. 21163 TEL. (410) 465-7903 FAX. (410) 465-3845	DES.: DW/AG DRN.: AVG CHK.: DW DATE: 2-28-05	AS BUILT REVISIONS DATE: 10/23/09	600' SCALE MAP No. 35 BLOCK No. 17	CEGAR LANE SEWER MAIN EXTENSION BUILDABLE BULK PARCEL "A" - UNITS 1 THRU 55 AND COMMUNITY CENTER PLANNED SENIOR COMMUNITY (PSC) - AGE RESTRICTED ADULT HOUSING A RESUBDIVISION OF PARCELS 224 AND 326 5th ELECTION DISTRICT, TAX MAP 35, GRID 17, HOWARD COUNTY, MD. 21044 CONTRACT NO. : 34-4650 CAPITAL PROJECT S-6272	SCALE: 1" = 50' SHEET NO. 2 OF 2
---	--	--	---	---	---------------------------------------	--	---

PROJECT: CEDAR LANE SEWER MAIN EXTENSION SHEET 11- FINAL WATER & SEWER V-2 SHEET 11-28-2009 11:35:41 AM GWT