


CONTRACT No. 24-4043-D
**EMERSON WATER AND SEWER MAIN
 CONSTRUCTION PLANS**
 SECTION 2, PHASE 4
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

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 1983/1991 (NAD '83/'91)].
 - All vertical controls are based on (NAVD 88).
 - All pipe elevations shown are invert elevations unless otherwise noted on this plan.
 - 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 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 (5) working days before starting work shown on these plans:

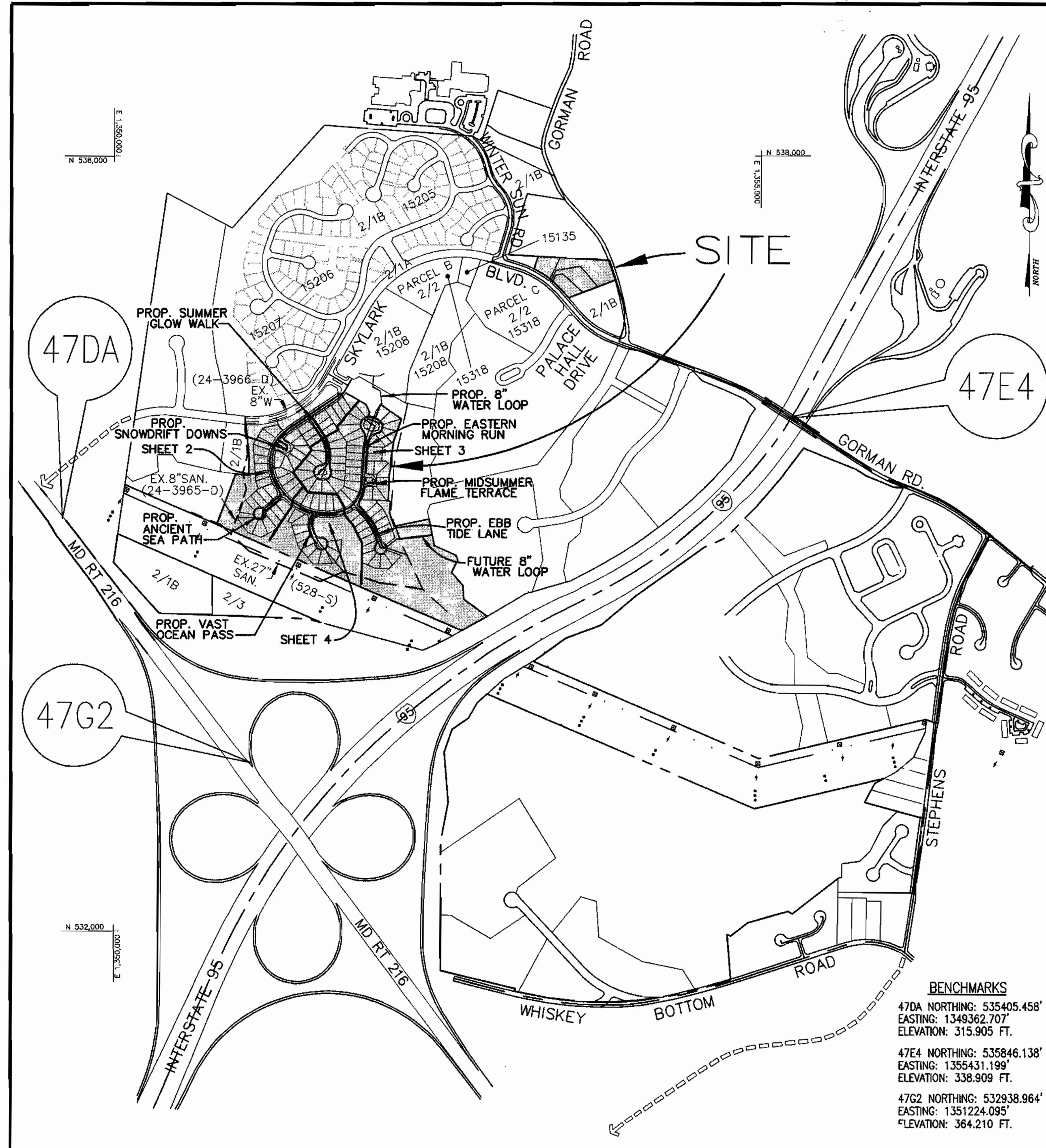
State Highway Administration	410-531-5533
BGE Contractor Services	410-850-4620
BGE Under Ground Damage Control	410-787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	410-795-1390
Howard County Department of Public Works	410-313-4900
Bureau of utilities	1-800-743-0033/ 410-224-9210
Verizon	1-800-252-1133
AT&T	
 - 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) 313-7450 at least five (5) working days before open cutting or boring/jacking of any County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.
- PART II - WATER**
- 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 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.
 - The contractor shall not operate any water main valves on the existing water system.
- PART III - SEWER**
- All sewer mains shall be D.I.P. and 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 G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on drawings.
 - House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

DRAWING LIST	
NO.	DESCRIPTION
1	COVER SHEET
2	WATER AND SEWER MAINS PLAN
3	WATER AND SEWER MAINS PLAN
4	WATER AND SEWER MAINS PLAN
5	SANITARY SEWER PROFILE
6	SANITARY SEWER PROFILE
7	SANITARY SEWER PROFILE
8	WATER MAIN PROFILE
9	WATER MAIN PROFILE

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER D.I.P.	3,850 LF	3,850 L.F.	D.I.P.	GRIFFIN
6" WATER D.I.P.	900 LF	900 L.F.	D.I.P.	GRIFFIN
6" FIRE HYDRANT	9 EA.	9 EA.	MUELLER	BELAIR ROAD SUPPLY
BLOW OFF ASSEMBLY	1 EA.	1 EA.	D.I.P.	BELAIR ROAD SUPPLY
8"x8" TEE	5 EA.	5 EA.	D.I.P.	BELAIR ROAD SUPPLY
8"x6" TEE	12 EA.	12 EA.	D.I.P.	BELAIR ROAD SUPPLY
8"x6" CROSS 8"x6"	1 EA.	1 EA.	D.I.P.	BELAIR ROAD SUPPLY
8"x6" REDUCER	4 EA.	4 EA.	D.I.P.	BELAIR ROAD SUPPLY
8" VALVE	40 EA.	40 EA.	GATE VALVE	BELAIR ROAD SUPPLY
6" VALVE	12 EA.	12 EA.	GATE VALVE	BELAIR ROAD SUPPLY
8" VALVE BOX	40 EA.	40 EA.	D.I.P.	BELAIR ROAD SUPPLY
6" VALVE BOX	12 EA.	12 EA.	D.I.P.	BELAIR ROAD SUPPLY
6" CAP	7 EA.	7 EA.	D.I.P.	BELAIR ROAD SUPPLY
1/8 BEND	10 EA.	10 EA.	D.I.P.	BELAIR ROAD SUPPLY
1/16 BEND	7 EA.	7 EA.	D.I.P.	BELAIR ROAD SUPPLY
1/32 BEND	5 EA.	0		
1" WHC	3,480 LF	4,455 L.F.	COPPER	BELAIR ROAD SUPPLY
8" SAN.	2,460 LF	2,460 L.F.	P.V.C.	BELAIR ROAD SUPPLY
8" SAN. D.I.P.	1,950 LF	1,950 L.F.	D.I.P.	GRIFFIN
SANITARY MANHOLE	38 EA.	38 EA.	PRE-CAST CONC.	ATLANTIC CONC. PRODUCTS, INC.
SAN. MANHOLE TYPE A DROP	2 EA.	2 EA.	PRE-CAST CONC.	ATLANTIC CONC. PRODUCTS, INC.
SAN. MANHOLE TYPE B DROP	3 EA.	3 EA.	PRE-CAST CONC.	ATLANTIC CONC. PRODUCTS, INC.

NAME OF UTILITY CONTRACTOR: **CONSOLIDATED CONSTRUCTION SERVICES, Inc.**

SURVEY AND CHECKBOX:
 DRAFTING DIV. AS-BUILT DATE: **4-10-03**



BENCHMARKS	
NO.	DESCRIPTION
47DA	NORTHING: 535405.458' EASTING: 1349362.707' ELEVATION: 315.20 FT. STANDARD STAMPED BRASS DISC SET ON 3' DEEP CONCRETE COLUMN, LOCATED 4.1' NE OF EBL OF RT 216, 0.5 MI SE OF LEISHEAR RD.
47E4	NORTHING: 535846.138' EASTING: 1355431.199' ELEVATION: 338.909 FT. STANDARD STAMPED BRASS DISC SET ON 3' DEEP CONCRETE COLUMN, LOCATED 1' N OF N. EDGE CONC. WALK, N SIDE OF GORMAN RD, 31' E OF NE COR. BRIDGE, 0.3' BELOW SURFACE.
47G2	NORTHING: 532938.964' EASTING: 1351224.095' ELEVATION: 364.210 FT.

WATER CODE:	E-15
TEST GRADIENT	700
SEWER CODE:	7420000

VICINITY MAP
 SCALE: 1"=600'

TYPE OF BUILDING	SINGLE FAMILY DWELLING
NUMBER OF UNITS	116
NUMBER OF S.H.C.'s	116
NUMBER OF W.H.C.'s	116
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WRP

* LOTS 117, 118, 119, & 120 WHC UNDER CONTRACT NO. 44-3870-D

BENCHMARKS	
NO.	DESCRIPTION
47DA	NORTHING: 535405.458' EASTING: 1349362.707' ELEVATION: 315.20 FT. STANDARD STAMPED BRASS DISC SET ON 3' DEEP CONCRETE COLUMN, LOCATED 4.1' NE OF EBL OF RT 216, 0.5 MI SE OF LEISHEAR RD.
47E4	NORTHING: 535846.138' EASTING: 1355431.199' ELEVATION: 338.909 FT. STANDARD STAMPED BRASS DISC SET ON 3' DEEP CONCRETE COLUMN, LOCATED 1' N OF N. EDGE CONC. WALK, N SIDE OF GORMAN RD, 31' E OF NE COR. BRIDGE, 0.3' BELOW SURFACE.
47G2	NORTHING: 532938.964' EASTING: 1351224.095' ELEVATION: 363.53 FT. STANDARD STAMPED BRASS DISC SET ON 3' DEEP CONCRETE COLUMN, LOCATED 4.3' NE OF GUARDRAIL BTWN. EBL & WBL OF RT. 216, 27' NW OF BRIDGE OVER 1-95 S.

COORDS IN NAD 83/91 (H) AND NGVD29 (V)

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

John R. Robertson 4/2/03
 SIGNATURE DATE

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

APPROVED: *Jim Muzys* 4/2/03
 HOWARD S.C.D. DATE

AS BUILT
 DATE: **APRIL 10, 2003**

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND THESE PLANS F-03-13.

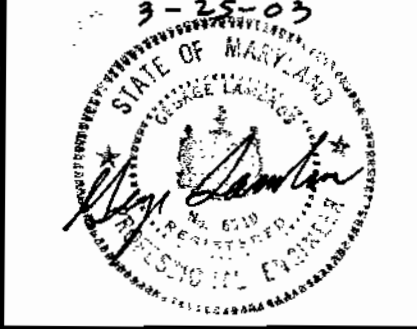
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Ruth Benning 3-31-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Chad Dorman 4/7/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS, SURVEYORS
 32 WEST ROAD
 TOWSON, MARYLAND 21284
 (410) 823-8070



DES:	
DRN:	
CHK:	
DATE:	
BY:	
NO:	
REVISION:	
DATE:	

COVER SHEET

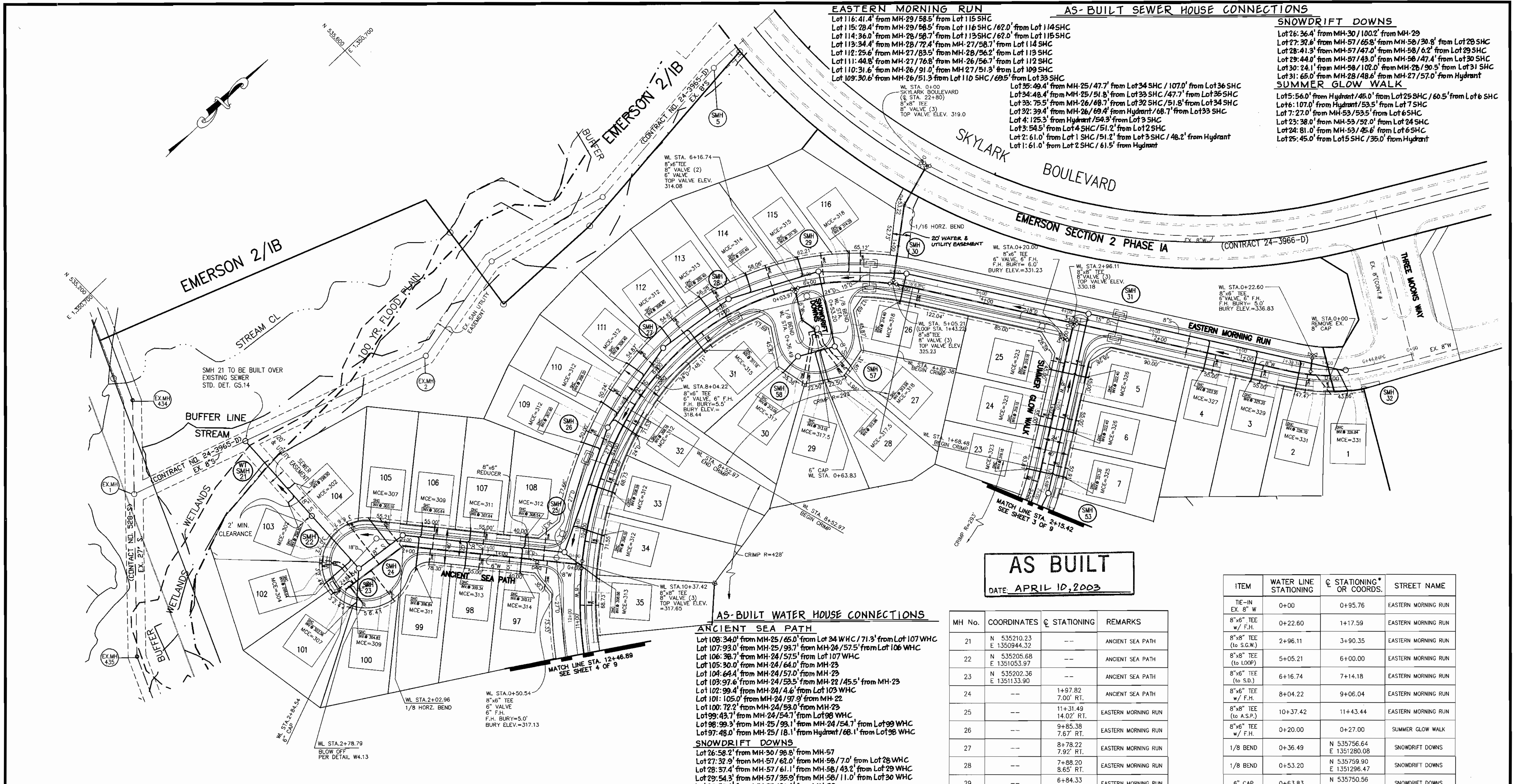
600' SCALE MAP NO. 47 BLOCK NO. 8

**EMERSON SECTION 2
 (KEY PROPERTY)
 PHASE 4
 (LOTS 1-124)**

TAX MAP NO. 47 ZONED: MXD PARCEL P.837, P.3, P.462
 BLOCK 2, 7, 8, 9, 14
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-4043-D

SCALE AS SHOWN

SHEET 1 OF 9



EASTERN MORNING RUN
 Lot 116: 41.4' from MH-29/58.5' from Lot 115 SHC
 Lot 115: 28.4' from MH-29/58.5' from Lot 116 SHC / 62.0' from Lot 114 SHC
 Lot 114: 36.0' from MH-28/56.7' from Lot 113 SHC / 62.0' from Lot 115 SHC
 Lot 113: 34.4' from MH-28/72.4' from MH-27/58.7' from Lot 114 SHC
 Lot 112: 25.6' from MH-27/83.5' from MH-26/56.2' from Lot 113 SHC
 Lot 111: 44.8' from MH-27/76.8' from MH-26/56.7' from Lot 112 SHC
 Lot 110: 31.6' from MH-26/91.0' from MH-27/51.3' from Lot 109 SHC
 Lot 109: 30.6' from MH-26/51.3' from Lot 110 SHC / 69.5' from Lot 108 SHC

AS-BUILT SEWER HOUSE CONNECTIONS
 Lot 35: 49.4' from MH-25/47.7' from Lot 34 SHC / 107.0' from Lot 36 SHC
 Lot 34: 48.4' from MH-25/51.8' from Lot 33 SHC / 47.7' from Lot 35 SHC
 Lot 33: 75.5' from MH-26/68.7' from Lot 32 SHC / 51.8' from Lot 34 SHC
 Lot 32: 39.4' from MH-26/69.4' from Hydrant / 68.7' from Lot 33 SHC
 Lot 4: 125.3' from Hydrant / 54.3' from Lot 3 SHC
 Lot 3: 54.5' from Lot 4 SHC / 51.2' from Lot 2 SHC
 Lot 2: 61.0' from Lot 1 SHC / 51.2' from Lot 3 SHC / 48.2' from Hydrant
 Lot 1: 61.0' from Lot 2 SHC / 61.5' from Hydrant

SNOWDRIFT DOWNS
 Lot 26: 36.4' from MH-30/100.2' from MH-29
 Lot 27: 32.6' from MH-57/65.8' from MH-56/30.8' from Lot 28 SHC
 Lot 28: 41.3' from MH-57/47.0' from MH-58/6.2' from Lot 29 SHC
 Lot 29: 44.0' from MH-57/43.0' from MH-58/47.4' from Lot 30 SHC
 Lot 30: 24.1' from MH-58/102.0' from MH-28/90.5' from Lot 31 SHC
 Lot 31: 65.0' from MH-28/48.6' from MH-27/57.0' from Hydrant

SUMMER GLOW WALK
 Lot 5: 56.0' from Hydrant / 45.0' from Lot 25 SHC / 60.5' from Lot 6 SHC
 Lot 6: 107.0' from Hydrant / 53.5' from Lot 7 SHC
 Lot 7: 27.0' from MH-53/53.5' from Lot 6 SHC
 Lot 23: 38.0' from MH-53/52.0' from Lot 24 SHC
 Lot 24: 81.0' from MH-53/45.6' from Lot 6 SHC
 Lot 25: 45.0' from Lot 5 SHC / 35.0' from Hydrant

AS BUILT
 DATE: APRIL 10, 2003

AS-BUILT WATER HOUSE CONNECTIONS
ANCIENT SEA PATH
 Lot 108: 34.0' from MH-25/65.0' from Lot 34 WHC / 71.3' from Lot 107 WHC
 Lot 107: 93.0' from MH-25/93.7' from MH-24/57.5' from Lot 106 WHC
 Lot 106: 26.7' from MH-24/57.5' from Lot 107 WHC
 Lot 105: 30.0' from MH-24/64.0' from MH-23
 Lot 104: 64.4' from MH-24/57.0' from MH-23
 Lot 103: 97.6' from MH-24/53.5' from MH-22 / 45.5' from MH-23
 Lot 102: 99.4' from MH-24/4.6' from Lot 103 WHC
 Lot 101: 105.0' from MH-24/97.9' from MH-22
 Lot 100: 72.2' from MH-24/59.0' from Lot 99 WHC
 Lot 99: 43.7' from MH-24/54.7' from Lot 98 WHC
 Lot 98: 99.3' from MH-25/93.1' from MH-24/54.7' from Lot 99 WHC
 Lot 97: 48.0' from MH-25/18.1' from Hydrant / 68.1' from Lot 98 WHC

SNOWDRIFT DOWNS
 Lot 26: 58.2' from MH-30/98.8' from MH-57
 Lot 27: 32.9' from MH-57/62.0' from MH-56/7.0' from Lot 28 WHC
 Lot 28: 37.4' from MH-57/61.1' from MH-58/43.2' from Lot 29 WHC
 Lot 29: 54.3' from MH-57/35.9' from MH-58/11.0' from Lot 30 WHC
 Lot 30: 59.1' from MH-57/30.6' from MH-56
 Lot 31: 56.2' from MH-28/56.9' from MH-27

SUMMER GLOW WALK
 Lot 5: 48.2' from Hydrant / 44.8' from Lot 25 WHC / 61.9' from Lot 6 WHC
 Lot 6: 88.8' from MH-53/61.9' from Lot 5 WHC / 44.5' from Lot 24 WHC
 Lot 7: 97.0' from MH-53/69.5' from Lot 24 WHC
 Lot 23: 32.9' from MH-57/62.3' from Lot 22 WHC
 Lot 24: 91.8' from MH-53/44.5' from Lot 6 WHC / 61.5' from Lot 25 WHC
 Lot 25: 25.7' Hydrant / 44.8' from Lot 5 WHC / 61.5' from Lot 24 WHC

EASTERN MORNING RUN
 Lot 116: 59.8' from MH-30/52.0' from MH-29/45.3' from Lot 115 WHC
 Lot 115: 102.2' from MH-30/20.0' from MH-29/64.2' from Lot 114 WHC
 Lot 114: 60.8' from MH-29/56.2' from MH-28/64.2' from Lot 115 WHC
 Lot 113: 88.1' from MH-27/22.9' from MH-28/64.0' from Lot 114 WHC
 Lot 112: 66.6' from MH-28/36.6' from MH-27/56.0' from Lot 113 WHC
 Lot 111: 27.5' from MH-27/53.9' from Lot 112 WHC
 Lot 110: 76.4' from MH-27/43.2' from MH-26/55.0' from Lot 111 WHC
 Lot 109: 23.0' from MH-26/53.6' from Lot 110 WHC

MH No.	COORDINATES	STATIONING	REMARKS
21	N 535210.23 E 1350944.32	--	ANCIENT SEA PATH
22	N 535205.68 E 1351053.97	--	ANCIENT SEA PATH
23	N 535202.36 E 1351133.90	--	ANCIENT SEA PATH
24	--	1+97.82 7.00' RT.	ANCIENT SEA PATH
25	--	11+31.49 14.02' RT.	EASTERN MORNING RUN
26	--	9+85.38 7.67' RT.	EASTERN MORNING RUN
27	--	8+78.22 7.92' RT.	EASTERN MORNING RUN
28	--	7+88.20 8.65' RT.	EASTERN MORNING RUN
29	--	6+84.33 7.26' RT.	EASTERN MORNING RUN
30	--	5+86.82 7.18' RT.	EASTERN MORNING RUN
31	--	3+76.35 7.0' RT.	EASTERN MORNING RUN
32	--	0+78.36 1.14' LT.	EASTERN MORNING RUN
53	--	1+99.39 7.98' LT.	SUMMER GLOW WALK
57	N 535762.57 E 1351327.27	--	SNOWDRIFT DOWNS
58	N 535724.98 E 1351306.38	--	SNOWDRIFT DOWNS

ITEM	WATER LINE STATIONING	STATIONING* OR COORDS.	STREET NAME
TIE-IN EX. 8" W	0+00	0+95.76	EASTERN MORNING RUN
8"x8" TEE w/ F.H.	0+22.60	1+17.59	EASTERN MORNING RUN
8"x8" TEE (to S.G.W.)	2+96.11	3+90.35	EASTERN MORNING RUN
8"x8" TEE (to LOOP)	5+05.21	6+00.00	EASTERN MORNING RUN
8"x6" TEE (to S.D.)	6+16.74	7+14.18	EASTERN MORNING RUN
8"x6" TEE w/ F.H.	8+04.22	9+06.04	EASTERN MORNING RUN
8"x8" TEE (to A.S.P.)	10+37.42	11+43.44	EASTERN MORNING RUN
8"x6" TEE w/ F.H.	0+20.00	0+27.00	SUMMER GLOW WALK
1/8 BEND	0+36.49	N 535756.64 E 1351280.08	SNOWDRIFT DOWNS
1/8 BEND	0+53.20	N 535759.90 E 1351296.47	SNOWDRIFT DOWNS
6" CAP	0+63.83	N 535750.56 E 1351311.86	SNOWDRIFT DOWNS
8"x8" TEE (to SKYLARK)	0+00.00	N 535981.36 E 1351251.29	LOOP TIE-IN SKYLARK BLVD.
1/16 BEND	0+53.22	N 535930.37 E 1351266.57	LOOP TIE-IN SKYLARK BLVD.
8"x6" TEE w/ F.H.	0+50.54	0+43.56	ANCIENT SEA PATH
1/8 BEND	2+02.96	1+95.93	ANCIENT SEA PATH
BLOW OFF	2+78.79	N 535180.86 E 1351141.46	ANCIENT SEA PATH
6" CAP	2+84.54	N 535175.14 E 1351140.79	ANCIENT SEA PATH

* WATER LINE IS OFFSET 7' FROM ROAD CENTERLINE UNLESS OTHERWISE NOTED.
 S.G.W. = SUMMER GLOW WALK; S.D. = SNOWDRIFT DOWNS; A.S.P. = ANCIENT SEA PATH;
 LOOP = LOOP TIE-IN SKYLARK BOULEVARD.

NOTES:
 1. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-03-13.
 2. INSTALL BALL VALVES AND SEWER CLEAN OUTS 3 FEET FROM EDGE OF SIDEWALK.
 3. INSTALL ALL FIRE HYDRANT 3' BEHIND BACK OF CURB.
 4. A TWO FOOT CLEARANCE MUST BE MAINTAINED BETWEEN SEWER EASEMENTS AND HOUSE FOOTINGS.

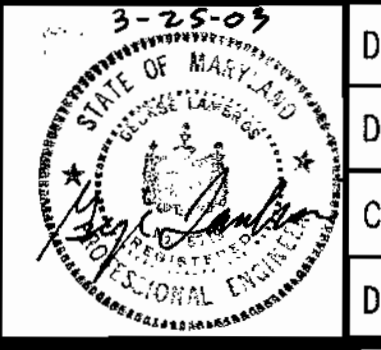
AS-BUILT SEWER HOUSE CONNECTIONS
ANCIENT SEA PATH
 Lot 108: 47.0' from MH-25/46.1' from Lot 97 SHC
 Lot 107: 78.0' from MH-24/63.5' from Lot 106 SHC
 Lot 106: 25.5' from MH-24/57.5' from Lot 107 SHC
 Lot 105: 67.5' from MH-22/44.5' from MH-24/56' from Lot 106 SHC
 Lot 104: 42.5' from MH-22/27.5' from Lot 103 SHC
 Lot 103: 31.0' from MH-22/27.5' from Lot 104 SHC
 Lot 102: 45.5' from MH-23/34.0' from Lot 101 SHC
 Lot 101: 44.5' from MH-23/14.0' from Lot 100 SHC
 Lot 100: 46.0' from MH-23/80.5' from Lot 99 SHC
 Lot 99: 40.0' from MH-24/55.5' from Lot 98 SHC
 Lot 98: 77.5' from MH-24/63.5' from Lot 97 SHC
 Lot 97: 57.2' from MH-25/46.1' from Lot 108 SHC

AS-BUILT WATER HOUSE CONNECTIONS
EASTERN MORNING RUN
 Lot 95: 117.0' from MH-38/71.7' from MH-25
 Lot 34: 44.2' from MH-25/66.3' from Lot 33 WHC
 Lot 33: 67.5' from MH-26/95.5' from MH-25/72.8' from Lot 32 WHC
 Lot 32: 92.2' from MH-27/40.5' from MH-26
 Lot 4: 115.0' from Hydrant/53.6' from Lot 3 WHC
 Lot 3: 53.6' from Lot 4 WHC / 52.1' from Lot 2 WHC
 Lot 2: 53.7' from MH-32/52.1' from Lot 3 WHC
 Lot 1: 34.5' from MH-32/48.1' from Hydrant

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. J. ... 3-31-03
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 ... 4/1/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS, SURVEYORS
 32 WEST ROAD
 TOWSON, MARYLAND 21204
 (410) 823-8070

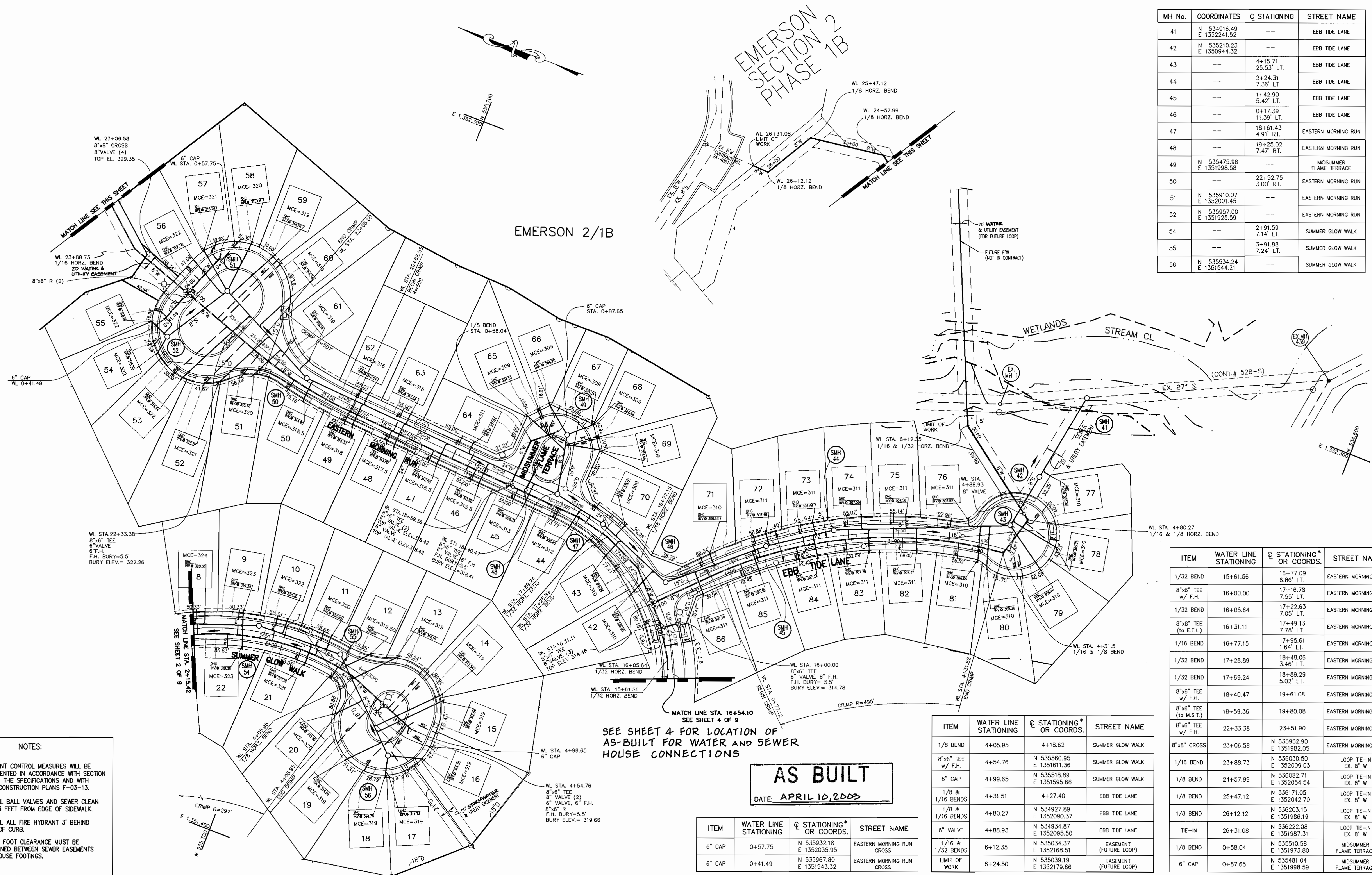


DES:	
DRN:	
CHK:	
DATE:	
BY:	
NO:	
REVISION:	
DATE:	

WATER AND SEWER MAINS PLAN
EMERSON
 KEY PROPERTY, SECTION 2, PHASE 4
 TAX MAP 47 P/O PARCEL P.837, P.3, P.462
 BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-4043-D

SCALE	ZONING	C.E.I. FILE No.
1"=50'	PEC-MXD-3	21125.01
DATE	TAX MAP No.	SHEET
FEB. 2003	47	2 OF 9
	BLOCK 8	

MH No.	COORDINATES	Q STATIONING	STREET NAME
41	N 534916.49 E 1352241.52	---	EBB TIDE LANE
42	N 535210.23 E 1350944.32	---	EBB TIDE LANE
43	---	4+15.71 25.53' LT.	EBB TIDE LANE
44	---	2+24.31 7.36' LT.	EBB TIDE LANE
45	---	1+42.90 5.42' LT.	EBB TIDE LANE
46	---	0+17.39 11.39' LT.	EBB TIDE LANE
47	---	18+61.43 4.91' RT.	EASTERN MORNING RUN
48	---	19+25.02 7.47' RT.	EASTERN MORNING RUN
49	N 535475.98 E 1351998.58	---	MIDSUMMER FLAME TERRACE
50	---	22+52.75 3.00' RT.	EASTERN MORNING RUN
51	N 535910.07 E 1352001.45	---	EASTERN MORNING RUN
52	N 535957.00 E 1351925.59	---	EASTERN MORNING RUN
54	---	2+91.59 7.14' LT.	SUMMER GLOW WALK
55	---	3+91.88 7.24' LT.	SUMMER GLOW WALK
56	N 535534.24 E 1351544.21	---	SUMMER GLOW WALK



ITEM	WATER LINE STATIONING	Q STATIONING* OR COORDS.	STREET NAME
1/32 BEND	15+61.56	16+77.09 6.86' LT.	EASTERN MORNING RUN
8"x6" TEE w/ F.H.	16+00.00	17+16.78 7.55' LT.	EASTERN MORNING RUN
1/32 BEND	16+05.64	17+22.63 7.05' LT.	EASTERN MORNING RUN
8"x8" TEE (to E.T.L.)	16+31.11	17+49.13 7.78' LT.	EASTERN MORNING RUN
1/16 BEND	16+77.15	17+95.61 1.64' LT.	EASTERN MORNING RUN
1/32 BEND	17+28.89	18+48.06 3.46' LT.	EASTERN MORNING RUN
1/32 BEND	17+69.24	18+89.29 5.02' LT.	EASTERN MORNING RUN
8"x6" TEE w/ F.H.	18+40.47	19+61.08	EASTERN MORNING RUN
8"x6" TEE (to M.S.T.)	18+59.36	19+80.08	EASTERN MORNING RUN
8"x6" TEE w/ F.H.	22+33.38	23+51.90	EASTERN MORNING RUN
8"x8" CROSS	23+06.58	N 535952.90 E 1351982.05	EASTERN MORNING RUN
1/16 BEND	23+88.73	N 536030.50 E 1352009.03	LOOP TIE-IN EX. 8" W
1/8 BEND	24+57.99	N 536082.71 E 1352054.54	LOOP TIE-IN EX. 8" W
1/8 BEND	25+47.12	N 536171.05 E 1352042.70	LOOP TIE-IN EX. 8" W
1/8 BEND	26+12.12	N 536203.15 E 1351986.19	LOOP TIE-IN EX. 8" W
TIE-IN	26+31.08	N 536222.08 E 1351987.31	LOOP TIE-IN EX. 8" W
1/8 BEND	0+58.04	N 535510.58 E 1351973.80	MIDSUMMER FLAME TERRACE
6" CAP	0+87.65	N 535481.04 E 1351998.59	MIDSUMMER FLAME TERRACE

ITEM	WATER LINE STATIONING	Q STATIONING* OR COORDS.	STREET NAME
1/8 BEND	4+05.95	4+18.62	SUMMER GLOW WALK
8"x6" TEE w/ F.H.	4+54.76	N 535560.95 E 1351611.36	SUMMER GLOW WALK
6" CAP	4+99.65	N 535518.89 E 1351595.66	SUMMER GLOW WALK
1/8 & 1/16 BENDS	4+31.51	4+27.40	EBB TIDE LANE
1/8 & 1/16 BENDS	4+80.27	N 534927.89 E 1352090.37	EBB TIDE LANE
8" VALVE	4+88.93	N 534934.87 E 1352095.50	EBB TIDE LANE
1/16 & 1/32 BENDS	6+12.35	N 535034.37 E 1352168.51	EASEMENT (FUTURE LOOP)
LIMIT OF WORK	6+24.50	N 535039.19 E 1352179.66	EASEMENT (FUTURE LOOP)

SEE SHEET 4 FOR LOCATION OF AS-BUILT FOR WATER AND SEWER HOUSE CONNECTIONS

AS BUILT
DATE: APRIL 10, 2003

ITEM	WATER LINE STATIONING	Q STATIONING* OR COORDS.	STREET NAME
6" CAP	0+57.75	N 535932.18 E 1352035.95	EASTERN MORNING RUN CROSS
6" CAP	0+41.49	N 535967.80 E 1351943.32	EASTERN MORNING RUN CROSS

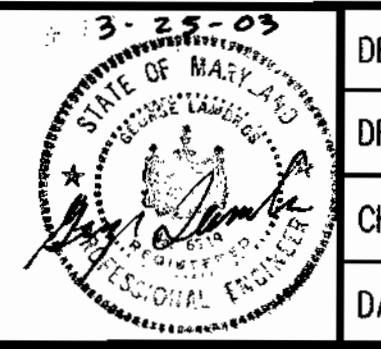
*WATER LINE IS OFFSET 7' FROM ROAD CENTERLINE UNLESS OTHERWISE NOTED. E.T.L. = EBB TIDE LANE, M.S.T. = MIDSUMMER FLAME TERRACE.

- NOTES:
1. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-03-13.
 2. INSTALL BALL VALVES AND SEWER CLEAN OUTS 3 FEET FROM EDGE OF SIDEWALK.
 3. INSTALL ALL FIRE HYDRANT 3' BEHIND BACK OF CURB.
 4. A TWO FOOT CLEARANCE MUST BE MAINTAINED BETWEEN SEWER EASEMENTS AND HOUSE FOOTINGS.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3-31-03
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
9/17/03
DATE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS, PLANNERS, SURVEYORS
32 WEST ROAD
TOWSON, MARYLAND 21204
(410) 823-8070



DES:	
DRN:	
CHK:	
DATE:	
BY	NO
REVISION	DATE

WATER AND SEWER MAINS PLAN
EMERSON
KEY PROPERTY, SECTION 2, PHASE 4
TAX MAP 47 P/O PARCEL P.837, P.3, P.462
BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-4043-D

SCALE	ZONING	C.E.I. FILE No.
1"=50'	PEC-MXD-3	21125.01
DATE	TAX MAP No.	SHEET
FEB. 2003	47	3 OF 9
	BLOCK 8	

AS-BUILT WATER HOUSE CONNECTIONS

VAST OCEAN PASS
 Lot 95: 41.5' from MH-36/44.6' from Lot 94 WHC
 Lot 94: 75.5' from MH-35/25.7' from MH-36/55.8' from Lot 93 WHC / 44.6'
 Lot 93: 32.1' from MH-35/62.9' from Lot 92 WHC
 Lot 92: 46.4' from MH-35/62.9' from Lot 93 WHC
 Lot 91: 75.2' from MH-35/67.3' from Lot 90 WHC
 Lot 90: 85.6' from MH-34/31.1' from Lot 89 WHC / 67.3' from Lot 91 WHC
 Lot 89: 62.4' from MH-34/30.0' from Lot 88 WHC / 31.1' from Lot 90 WHC
 Lot 88: 65.8' from MH-34/145.6' from MH-35/30.0' from Lot 89 WHC
 Lot 87: 113.8' from MH-34/50.4' from Lot 88 WHC

EASTERN MORNING RUN

Lot 96: 23.0' from MH-38/120.0' from MH-37
 Lot 41: 61.5' from MH-40/67.7' from Lot 86 WHC
 Lot 40: 54.0' from MH-39/48.6' from MH-40
 Lot 39: 43.5' from MH-39/75.3' from MH-40
 Lot 38: 36.2' from MH-37/109.5' from MH-38
 Lot 37: 88.8' from MH-37/43.0' from MH-36
 Lot 36: 59.2' from MH-36/67.5' from Lot 37 WHC

AS-BUILT SEWER HOUSE CONNECTIONS

VAST OCEAN PASS
 Lot 95: 69.0' from MH-36/46.0' from MH-37
 Lot 94: 34.4' from MH-36/62.0' from MH-35
 Lot 93: 27.0' from MH-35/57.0' from Lot 94 SHC
 Lot 92: 56.5' from MH-35/57.0' from Lot 93 SHC
 Lot 91: 133.0' from MH-34/42.6' from Lot 92 SHC
 Lot 90: 116.0' from MH-34/22.0' from Lot 91 SHC
 Lot 89: 155.5' from MH-34/27.8' from Lot 88 SHC
 Lot 88: 19.0' from MH-34/27.8' from Lot 89 SHC / 69.0' from Lot 87 SHC
 Lot 87: 87.5' from MH-34/69.0' from Lot 88 SHC

EASTERN MORNING RUN

Lot 96: 28.4' from MH-38/61.0' from Lot 37 SHC
 Lot 41: 46.7' from MH-40/62.0' from Lot 40 SHC
 Lot 40: 62.8' from MH-39/44.2' from MH-40/62.0' from Lot 41 SHC
 Lot 39: 86.3' from MH-37/69.4' from Lot 38 SHC / 36.0' from MH-39
 Lot 38: 37.4' from MH-37/71.0' from Lot 37 SHC / 69.4' from Lot 39 SHC
 Lot 37: 51.5' from MH-36/72.7' from MH-37/70.0' from Lot 36 SHC
 Lot 36: 47.6' from MH-36/107.0' from Lot 35 SHC / 70.0' from Lot 37 SHC

MH No.	COORDINATES	STATIONING	REMARKS
33	N 534849.26 E 1351712.32	--	VAST OCEAN PASS
34	N 534909.77 E 1351661.53	--	VAST OCEAN PASS
35	--	1+74.45 3.12' LT.	VAST OCEAN PASS
36	--	1+02.52 2.36' LT.	VAST OCEAN PASS
37	--	14+15.97 3.78' RT.	EASTERN MORNING RUN
38	--	13+07.86 3.76' RT.	EASTERN MORNING RUN
39	--	15+11.53 3.70' RT.	EASTERN MORNING RUN
40	--	16+00.00 3.00' RT.	EASTERN MORNING RUN

ITEM	WATER LINE STATIONING	STATIONING* OR COORDS.	STREET NAME
8"x6" TEE (to V.O.P.)	12+96.97	14+07.39	EASTERN MORNING RUN
8"x6" TEE w/ F.H.	13+25.24	14+36.42	EASTERN MORNING RUN
1/16 BEND	1+06.99	0+98.17 9.5' RT.	VAST OCEAN PASS
1/16 BEND	1+94.91	1+82.30 9.47' RT.	VAST OCEAN PASS
6" CAP	3+18.86	N 534964.55 E 1351594.28	VAST OCEAN PASS

*WATER LINE IS OFFSET 7' FROM ROAD CENTERLINE UNLESS OTHERWISE NOTED.
 V.O.P. = VAST OCEAN PASS.

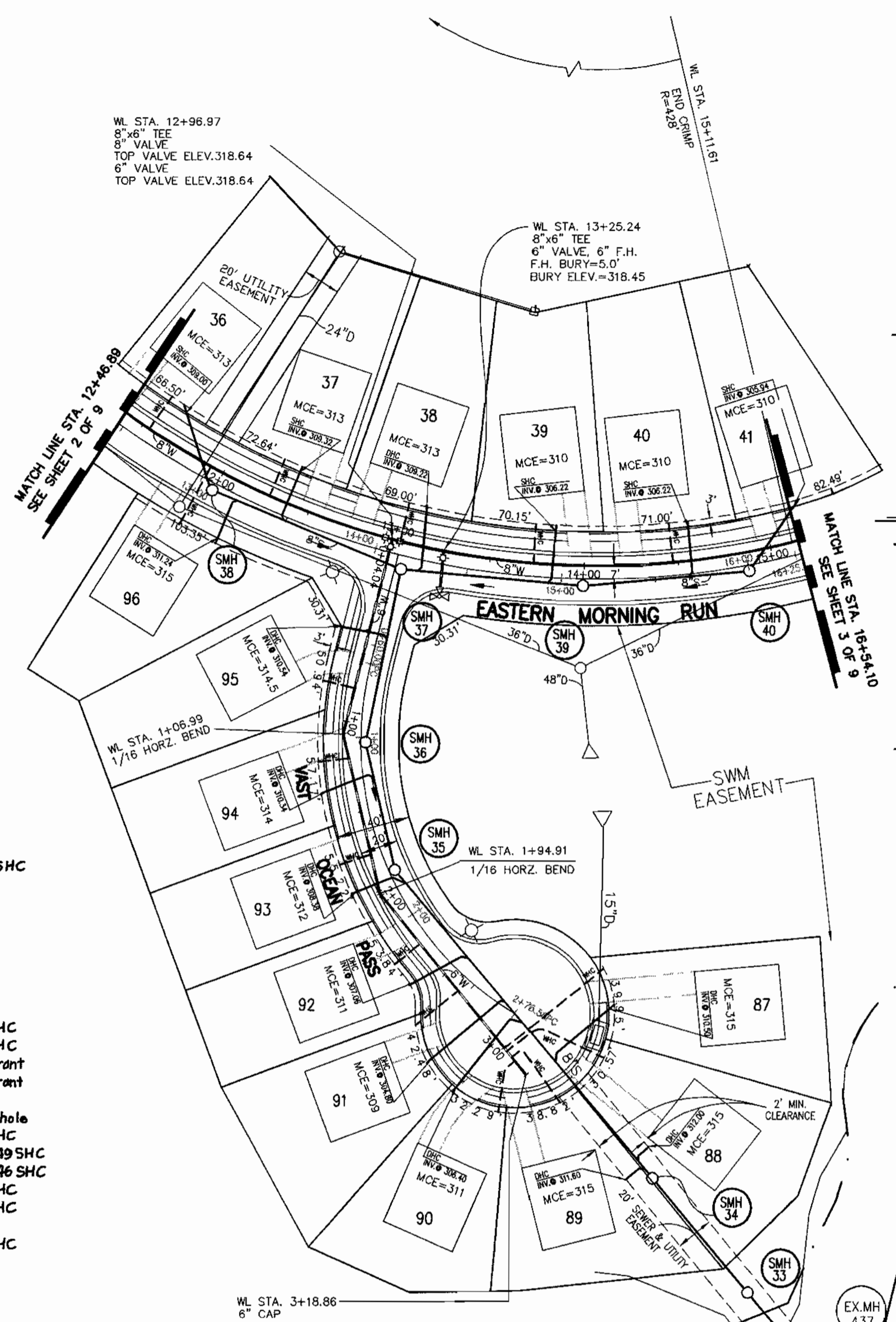
AS-BUILT WATER HOUSE CONNECTIONS FOR LOCATION SEE SHEET 3

EBB TIDE LANE
 Lot 86: 28.2' from MH-46/67.7' from Lot 41 WHC / 28.4' from Hydrant
 Lot 85: 44.4' from MH-45/50.2' from Lot 72 WHC / 95.6' from Hydrant
 Lot 84: 54.6' from MH-44/45.0' from MH-45
 Lot 83: 33.4' from MH-44/44.9' from Lot 74 WHC
 Lot 82: 85.6' from MH-44/65.0' from Lot 83 WHC
 Lot 81: 73.8' from MH-43/47.6' from Lot 76 WHC / 65.7' from Lot 82 WHC
 Lot 80: 69.4' from MH-43/75.4' from Lot 81 WHC
 Lot 79: 64.6' from MH-43/61.0' from Lot 78 WHC / 7.3' from Lot 80 WHC
 Lot 78: 59.6' from MH-43/44.6' from Lot 77 WHC
 Lot 77: 50.4' from MH-43/33.8' from MH-42
 Lot 76: 71.3' from MH-43/47.6' from Lot 81 WHC
 Lot 75: 72.0' from MH-44/69.0' from Lot 75 WHC
 Lot 74: 21.3' from MH-44/55.5' from Lot 75 WHC / 44.9' from Lot 83 WHC
 Lot 73: 42.0' from MH-44/46.7' from MH-45
 Lot 72: 21.5' from MH-45/50.2' from Lot 85 WHC
 Lot 71: 82.2' from MH-45/63.4' from Lot 85 WHC / 68.0' from Lot 72 WHC

EASTERN MORNING RUN
 Lot 64: 89.6' from Lot 48 WHC / 75.5' from Lot 63 WHC
 Lot 63: 55.5' from Lot 62 WHC / 44.5' from Lot 48 WHC / 75.5' from Lot 64 WHC
 Lot 62: 68.0' from MH-50/47.7' from Lot 49 WHC
 Lot 61: 94.5' from MH-51/56.2' from MH-50
 Lot 60: 71.4' from MH-51/3.9' from Lot 59 WHC
 Lot 59: 70.5' from MH-51/3.9' from Lot 60 WHC
 Lot 58: 62.0' from MH-51/51.6' from Lot 59 WHC
 Lot 57: 59.7' from MH-51/29.0' from Lot 58 WHC
 Lot 56: 60.0' from MH-50/79.3' from MH-52/46.7' from Lot 57 WHC
 Lot 55: 33.8' from MH-52/63.4' from Lot 56 WHC / 37.3' from Lot 54 WHC
 Lot 54: 26.4' from MH-52/37.3' from Lot 55 WHC / 46.0' from Lot 53 WHC
 Lot 53: 47.8' from MH-52/46.0' from Lot 54 WHC / 42.4' from Lot 52 WHC
 Lot 52: 76.5' from MH-52/42.4' from Lot 53 WHC / 39.2' from Lot 51 WHC
 Lot 51: 80.8' from MH-50/97.0' from MH-52/39.2' from Lot 52 WHC
 Lot 50: 26.3' from MH-50/78.0' from Lot 49 WHC
 Lot 49: 68.0' from MH-50/54.5' from Lot 48 WHC / 78.0' from Lot 50 WHC
 Lot 48: 56.0' from Lot 47 WHC / 54.5' from Lot 49 WHC
 Lot 47: 56.0' from Lot 48 WHC / 54.3' from Lot 46 WHC
 Lot 46: 104.0' from MH-48/55.5' from Lot 64 WHC / 54.3' from Lot 47 WHC
 Lot 45: 53.5' from MH-48/55.5' from Lot 46 WHC
 Lot 44: 31.0' from MH-48/55.0' from Lot 45 WHC
 Lot 43: 54.0' from MH-47/89.5' from Lot 44 WHC
 Lot 42: 57.8' from MH-46/45.2' from Hydrant

SUMMER GLOW WALK
 Lot 8: 23.6' from MH-53/50.8' from Lot 9 WHC
 Lot 9: 70.4' from MH-53/30.4' from MH-54/50.8' from Lot 8 WHC
 Lot 10: 26.0' from MH-54/55.0' from Lot 11 WHC
 Lot 11: 76.0' from MH-54/25.2' from MH-55
 Lot 12: 15.6' from MH-55/85.2' from Hydrant / 92.0' from Lot 13 WHC
 Lot 13: 113.0' from MH-56/7.0' from Lot 14 WHC / 92.0' from Lot 12 WHC
 Lot 14: 111.0' from MH-56/17.0' from Lot 13 WHC / 71.1' from Lot 15 WHC
 Lot 15: 67.9' from MH-56/17.3' from Lot 16 WHC
 Lot 16: 58.0' from MH-56/48.6' from Lot 17 WHC
 Lot 17: 30.0' from MH-56/48.6' from Lot 16 WHC / 48.7' from Lot 18 WHC
 Lot 18: 34.5' from MH-56/53.0' from Lot 19 WHC
 Lot 19: 66.6' from MH-56/62.8' from Hydrant
 Lot 20: 31.8' from MH-55/67.0' from Hydrant / 44.0' from Lot 21 WHC
 Lot 21: 64.5' from MH-54/51.6' from MH-56/44.0' from Lot 20 WHC
 Lot 22: 65.6' from MH-53/49.2' from MH-54/62.3' from Lot 23 WHC

AS BUILT
 DATE: APRIL 10, 2003



**FOR LOCATION SEE SHEET 3
 AS-BUILT SEWER HOUSE CONNECTIONS**

EBB TIDE LANE
 Lot 86: 48.1' from MH-46/51.6' from Lot 71 SHC
 Lot 85: 33.0' from MH-45/71.7' from Lot 86 SHC
 Lot 84: 36.2' from MH-44/64.0' from MH-45/73.5' from Lot 85 SHC
 Lot 83: 49.5' from MH-44/59.0' from Lot 84 SHC
 Lot 82: 101.5' from MH-44/56.0' from Lot 83 SHC
 Lot 81: 61.0' from MH-43/73.0' from Lot 82 SHC
 Lot 80: 59.4' from MH-43/12.1' from Lot 81 SHC
 Lot 79: 68.6' from MH-43/66.0' from Lot 80 SHC
 Lot 78: 65.0' from MH-43/34.0' from Lot 79 SHC
 Lot 77: 13.5' from MH-42/84.5' from Lot 78 SHC
 Lot 76: 50.5' from MH-43/97.1' from MH-42/55.0' from Lot 81 SHC
 Lot 75: 86.0' from MH-44/123.5' from MH-43/50.5' from Lot 82 SHC
 Lot 74: 36.4' from MH-44/56.3' from Lot 73 SHC / 53.5' from Lot 75 SHC
 Lot 73: 63.0' from MH-45/28.9' from MH-44
 Lot 72: 18.5' from MH-45/57.3' from Lot 73 SHC
 Lot 71: 62.4' from MH-46/71.5' from MH-45

EASTERN MORNING RUN
 Lot 64: 118.5' from MH-48/53.2' from Lot 47 SHC / 53.2' from Lot 46 SHC
 Lot 63: 53.6' from Lot 62 SHC / 80.6' from Lot 64 SHC
 Lot 62: 77.5' from MH-50/53.6' from Lot 63 SHC
 Lot 61: 24.5' from MH-50/79.5' from Lot 62 SHC
 Lot 60: 77.0' from MH-51/102.5' from MH-50
 Lot 59: 71.0' from MH-51/52.7' from Lot 60 SHC
 Lot 58: 65.5' from MH-51/30.0' from Lot 59 SHC
 Lot 57: 59.0' from MH-51/59.5' from Lot 58 SHC
 Lot 56: 59.4' from MH-51/94.0' from MH-52/17.0' from Lot 57 SHC
 Lot 55: 29.0' from MH-52/43.7' from Lot 54 SHC / 89.0' from Lot 56 SHC
 Lot 54: 32.3' from MH-52/40.2' from Lot 53 SHC / 43.7' from Lot 55 SHC
 Lot 53: 41.6' from Lot 52 SHC / 40.2' from Lot 54 SHC / 66.5' from Hydrant
 Lot 52: 41.6' from Lot 53 SHC / 43.8' from Lot 51 SHC / 47.7' from Hydrant
 Lot 51: 65.7' from MH-50/47.4' from Hydrant / 43.8' from Lot 52 SHC
 Lot 50: 26.8' from MH-50/64.5' from Lot 49 SHC / 56.7' from 1-11 Manhole
 Lot 49: 78.2' from MH-50/55.0' from Lot 48 SHC / 46.7' from Lot 62 SHC
 Lot 48: 48.5' from Lot 63 SHC / 55.0' from Lot 47 SHC / 55.0' from Lot 49 SHC
 Lot 47: 55.0' from Lot 48 SHC / 52.8' from Lot 64 SHC / 55.2' from Lot 49 SHC
 Lot 46: 95.2' from MH-48/55.2' from Lot 47 SHC / 53.5' from Lot 64 SHC
 Lot 45: 42.3' from MH-48/58.4' from Lot 44 SHC / 60.3' from Lot 46 SHC
 Lot 44: 42.5' from MH-47/42.1' from MH-48/58.4' from Lot 45 SHC
 Lot 43: 38.0' from MH-47/54.2' from Lot 44 SHC / 54.7' from Lot 42 SHC
 Lot 42: 44.5' from MH-46/69.0' from Hydrant / 54.7' from Lot 43 SHC

SUMMER GLOW WALK
 Lot 8: 36.0' from MH-53/64' from MH-54
 Lot 9: 25.0' from MH-54/44.0' from Lot 8 SHC / 46.0' from Lot 22 SHC
 Lot 10: 37.0' from MH-54/75.0' from MH-55
 Lot 11: 89.0' from MH-54/24.5' from MH-55
 Lot 12: 37.0' from MH-55/69.5' from Hydrant
 Lot 13: 69.0' from MH-55/70.5' from Hydrant
 Lot 14: 99.0' from MH-56/81.0' from Hydrant / 9.0' from Lot 15 SHC
 Lot 15: 95.0' from MH-56/82.0' from Hydrant / 9.0' from Lot 14 SHC
 Lot 16: 45.0' from MH-56/79.0' from Hydrant / 42.5' from Lot 17 SHC
 Lot 17: 25.0' from MH-56/10' from Lot 18 SHC
 Lot 18: 26.0' from MH-56/10' from Lot 17 SHC
 Lot 19: 50.0' from MH-56/50.5' from Lot 18 SHC
 Lot 20: 73.0' from MH-55/54.0' from Hydrant
 Lot 21: 46.0' from MH-55/71.0' from MH-54
 Lot 22: 34.0' from MH-54/81.0' from MH-53

MIDSUMMER FLAME TERRACE

Lot 70: 29.4' from MH-47/83.3' from MH-46/49.2' from Lot 43 SHC
 Lot 69: 43.5' from MH-49/73.7' from MH-48/30.8' from Lot 68 SHC
 Lot 68: 37.5' from MH-49/30.8' from Lot 69 SHC
 Lot 67: 38.2' from MH-49/6.4' from Lot 68 SHC
 Lot 66: 46.0' from MH-49/60.5' from Lot 67 SHC
 Lot 65: 57.5' from MH-49/31.2' from Lot 66 SHC

- NOTES:
1. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-03-13.
 2. INSTALL BALL VALVES AND SEWER CLEAN OUTS 3 FEET FROM EDGE OF SIDEWALK.
 3. INSTALL ALL FIRE HYDRANT 3' BEHIND BACK OF CURB.
 4. A TWO FOOT CLEARANCE MUST BE MAINTAINED BETWEEN SEWER EASEMENTS AND HOUSE FOOTINGS.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. H. Berman 3-31-03
 CHIEF, BUREAU OF UTILITIES

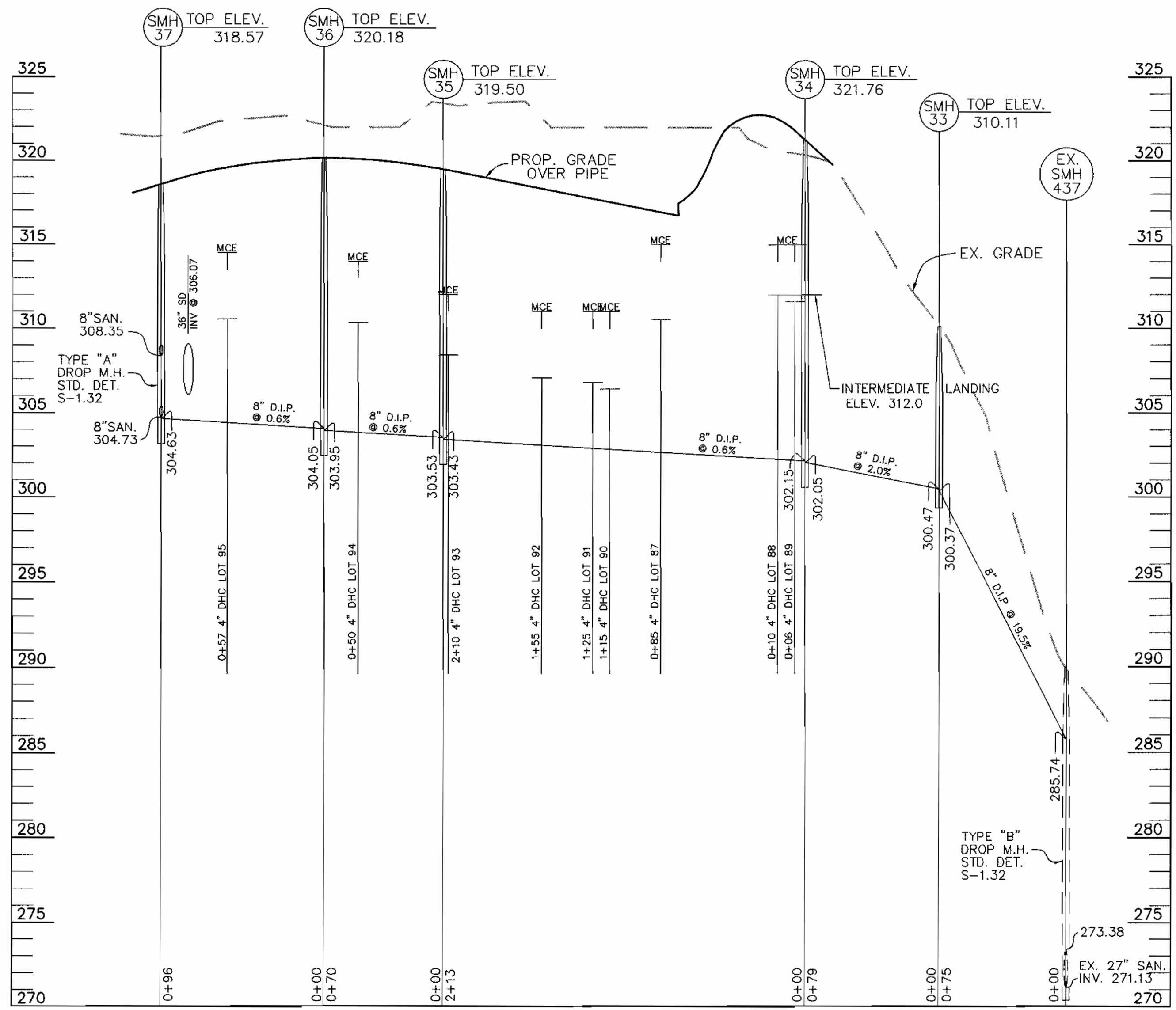
DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 A. J. Dammus 4/1/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS, SURVEYORS
 32 WEST ROAD
 TOWSON, MARYLAND 21204
 (410) 823-8070

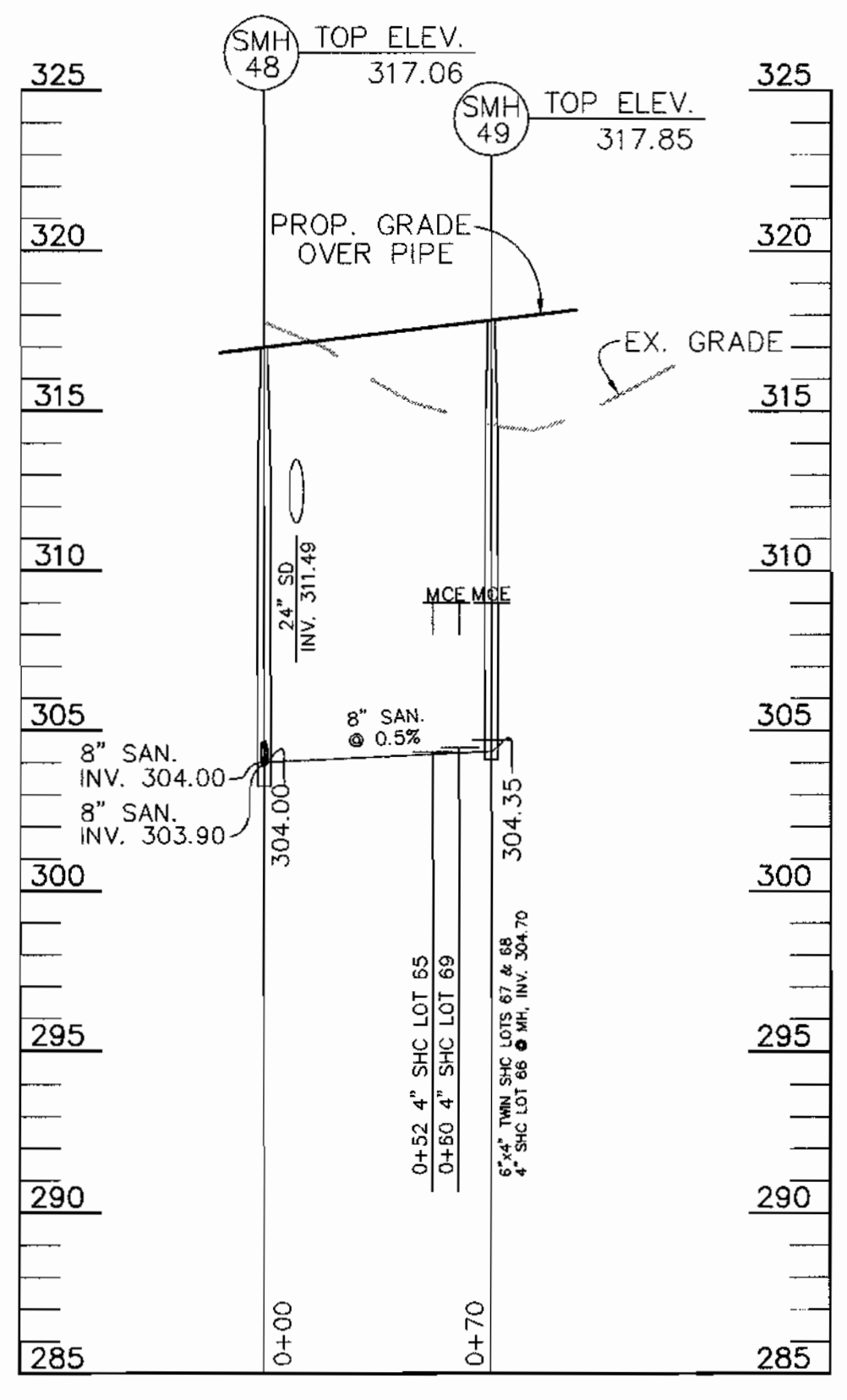
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DRN:				
CHK:				
DATE:	BY	NO	REVISION	DATE

WATER AND SEWER MAINS PLAN
EMERSON
 KEY PROPERTY, SECTION 2, PHASE 4
 TAX MAP 47 P/O PARCEL P.837, P.3, P.462
 BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-4043-D

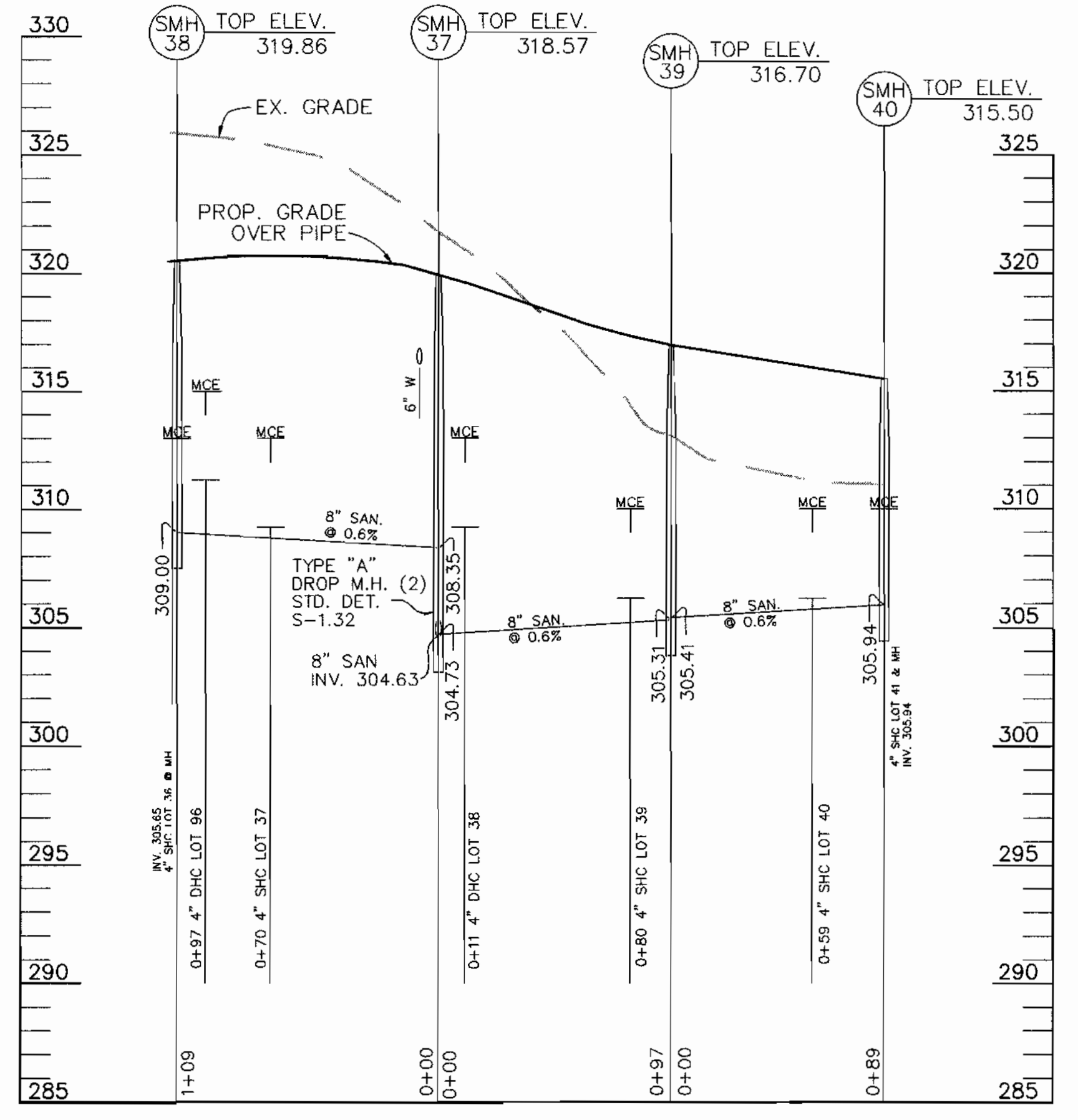
SCALE	ZONING	C.E.I. FILE No.
1"=50'	PEC-MXD-3	21125.01
DATE	TAX MAP No.	SHEET
FEB. 2003	47 BLOCK 8	4 OF 9



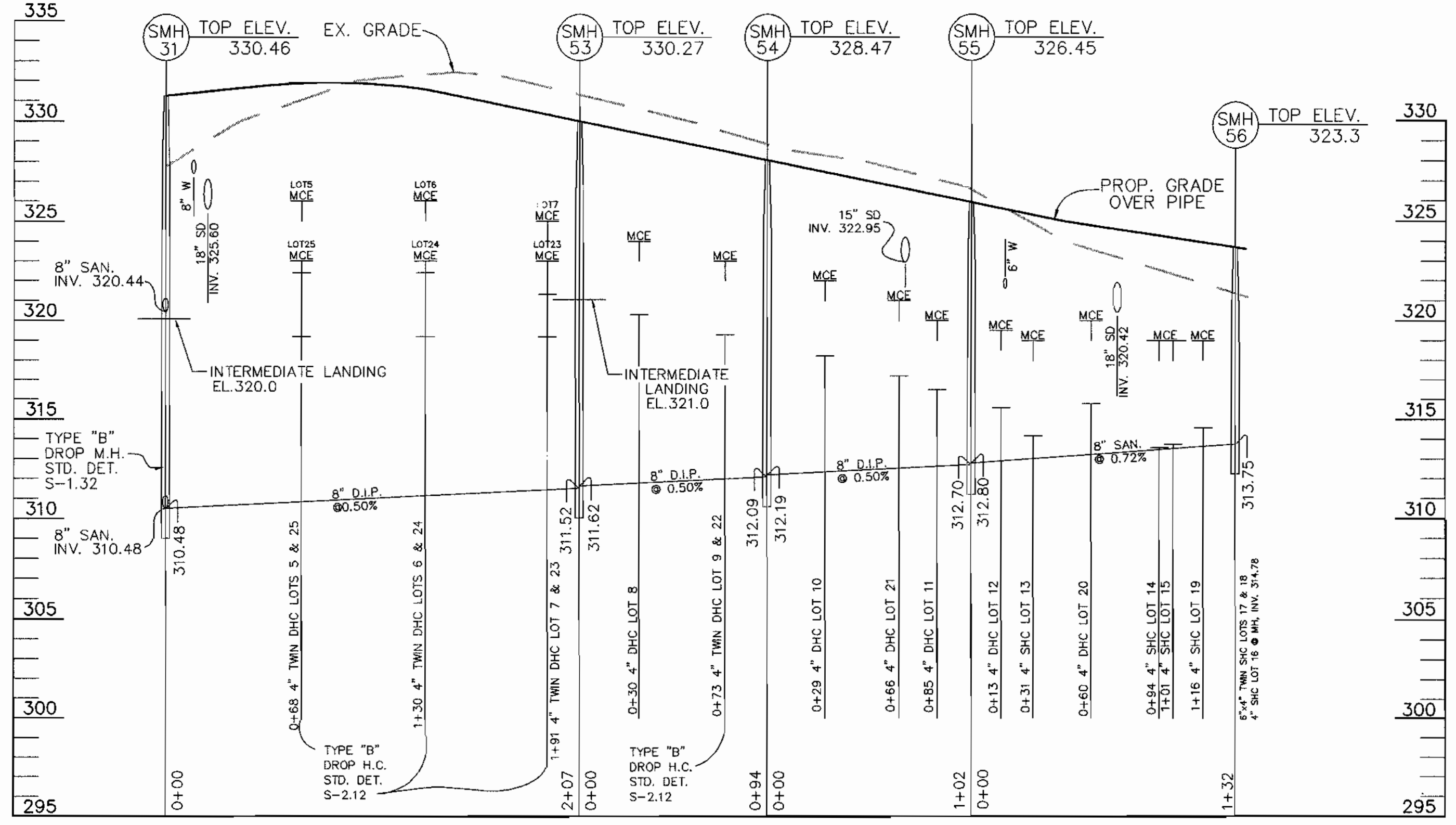
VAST OCEAN PASS
SCALE HORIZ. 1"=50'
VERT. 1"=5'



MIDSUMMER FLAME TERRACE
SCALE HORIZ. 1"=50'
VERT. 1"=5'



EASTERN MORNING RUN
SCALE HORIZ. 1"=50'
VERT. 1"=5'



SUMMER GLOW WALK
SCALE HORIZ. 1"=50'
VERT. 1"=5'

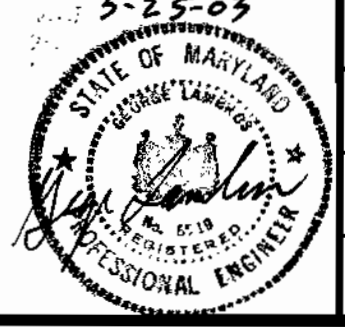
AS BUILT
DATE: APRIL 10, 2003

NOTES:
1. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-03-13.
2. ALL PROFILES ON THIS SHEET ARE DRAWN AND LABELED USING ROAD CENTERLINE STATIONING.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Ruth Beniger 3-31-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature] 4/10/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

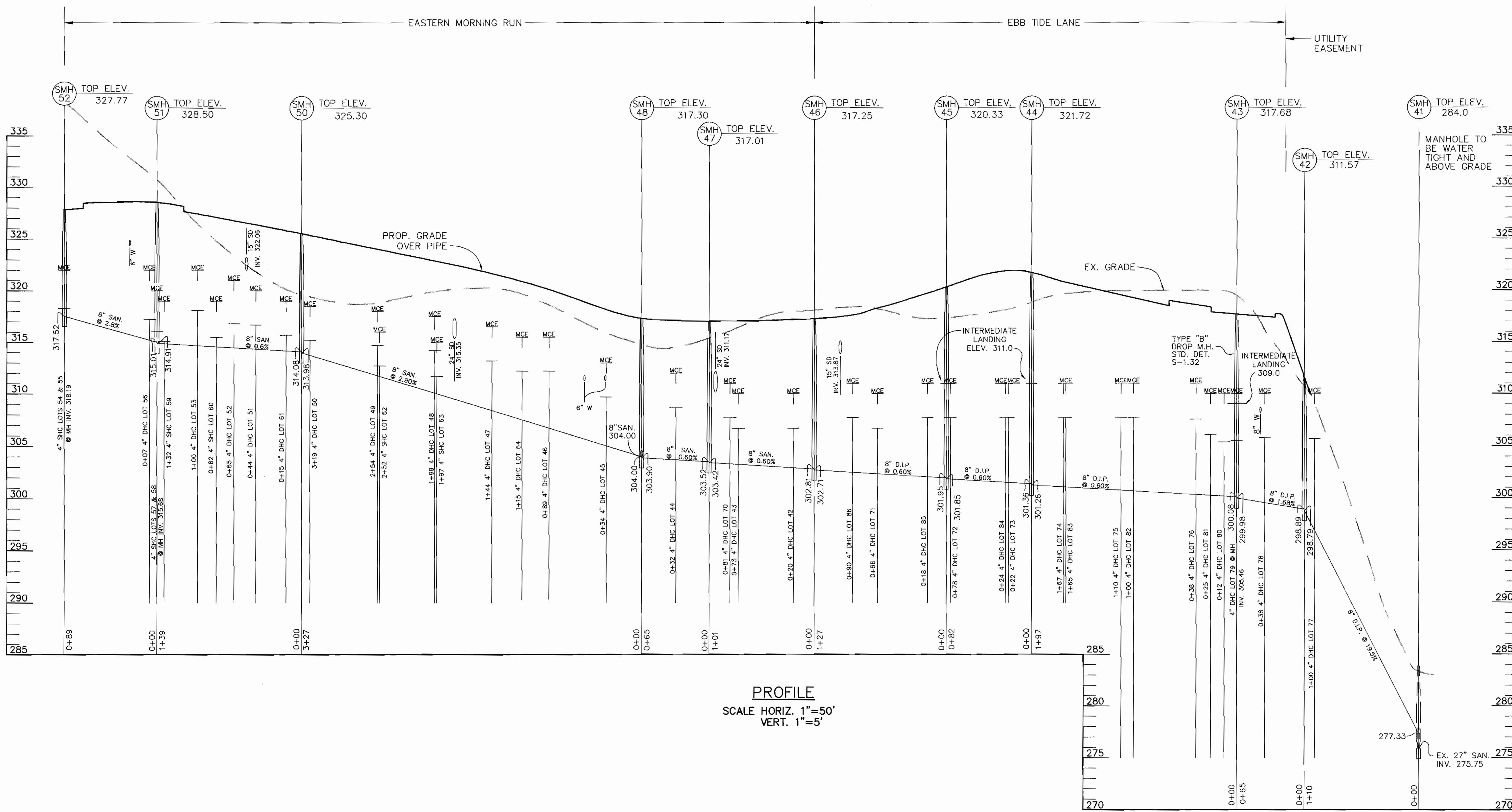
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS, PLANNERS, SURVEYORS
32 WEST ROAD
TOWSON, MARYLAND 21204
(410) 823-8070



DES:				
DRN:				
CHK:				
DATE:	BY	NO	REVISION	DATE

SANITARY SEWER PROFILE
EMERSON
KEY PROPERTY, SECTION 2, PHASE 4
TAX MAP 47 P/O PARCEL P.837, P.3, P.462
BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-4043-D

SCALE 1"=50'	ZONING PEC-MXD-3	C.E.I. FILE No. 21125.01
DATE FEB. 2003	TAX MAP No. 47 BLOCK 8	SHEET 6 OF 9



PROFILE
 SCALE HORIZ. 1"=50'
 VERT. 1"=5'

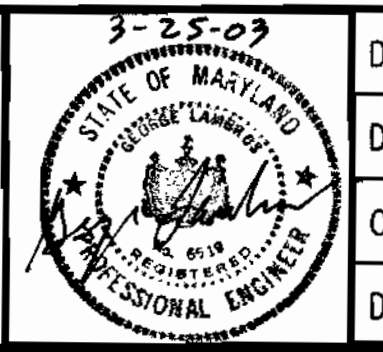
NOTES:
 1. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-03-13.
 2. ALL PROFILES ON THIS SHEET ARE DRAWN AND LABELED USING ROAD CENTERLINE STATIONING.

AS BUILT
 DATE: APRIL 10, 2003

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Ruth Benner 3-31-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
Chad Dammann 4/10/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

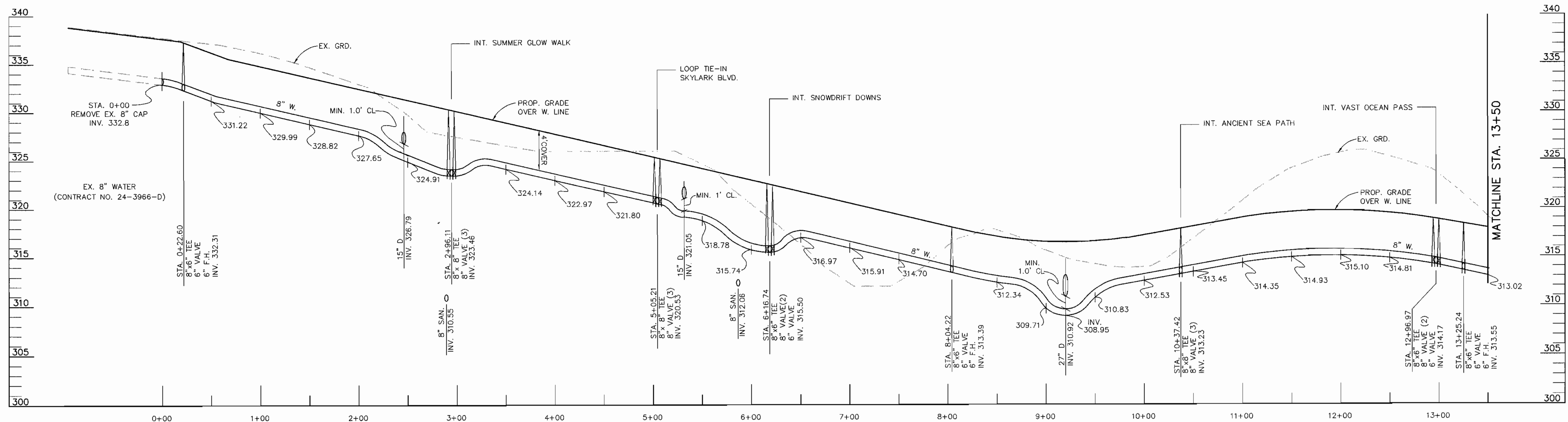
CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS, SURVEYORS
 32 WEST ROAD
 TOWSON, MARYLAND 21204
 (410) 823-8070



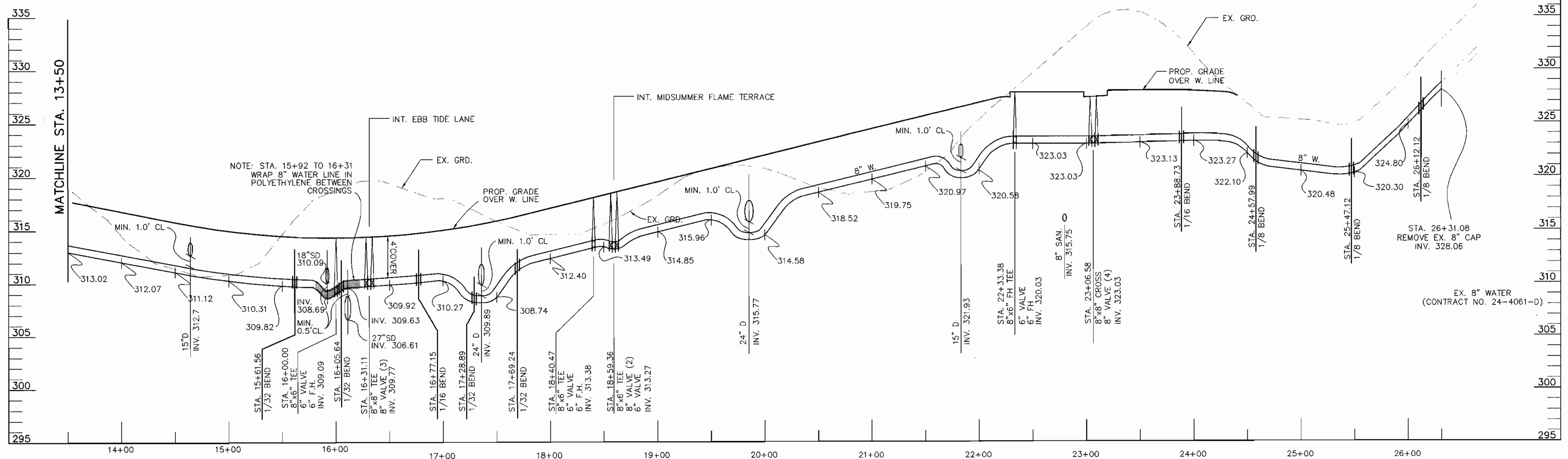
DES:				
DRN:				
CHK:				
DATE:	BY	NO	REVISION	DATE

SANITARY SEWER PROFILE
EMERSON
 KEY PROPERTY, SECTION 2, PHASE 4
 TAX MAP 47 P/O PARCEL P.837, P.3, P.462
 BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-4043-D

SCALE 1"=50'	ZONING PEC-MXD-3	C.E.I. FILE No. 21125.01
DATE FEB. 2003	TAX MAP No. 47 BLOCK 8	SHEET 7 OF 9



EASTERN MORNING RUN
SCALE HORIZ. 1"=50'
VERT. 1"=5'



EASTERN MORNING RUN
SCALE HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT
DATE: APRIL 10, 2003

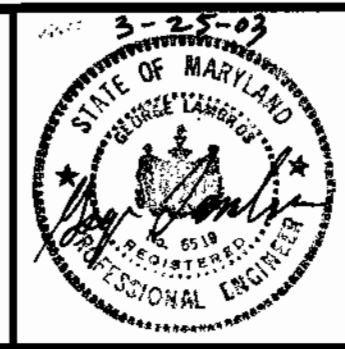
NOTES:

1. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-03-13.
2. ALL PROFILES ON THIS SHEET ARE DRAWN AND LABELED USING WATER LINE STATIONING.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. J. ... 3-31-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
... 4/10/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS, PLANNERS, SURVEYORS
32 WEST ROAD
TOWSON, MARYLAND 21204
(410) 823-8070



DES:				
DRN:				
CHK:				
DATE:	BY	NO	REVISION	DATE

WATER MAIN PROFILE
EMERSON
KEY PROPERTY, SECTION 2, PHASE 4
TAX MAP 47 P/O PARCEL P.837, P.3, P.462
BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-4043-D

SCALE 1"=50'	ZONING PEC-MXD-3	C.E.I. FILE No. 21125.01
DATE FEB. 2003	TAX MAP No. 47 BLOCK 8	SHEET 8 OF 9

