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NO.	DESCRIPTION
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3.	PLAN OF A WATER MAIN
4.	PROFILES OF WATER AND SEWER MAINS
5.	PROFILES OF WATER AND SEWER MAINS
6.	PROFILES OF WATER AND SEWER MAINS
7.	PROFILES OF WATER AND SEWER MAINS
8.	PROFILES OF WATER MAINS AND DETAIL SHEET

PUBLIC WATER & SEWER EXTENSION

WYNDEMERE

SECTION ONE LOTS 1-118

6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-1897-D

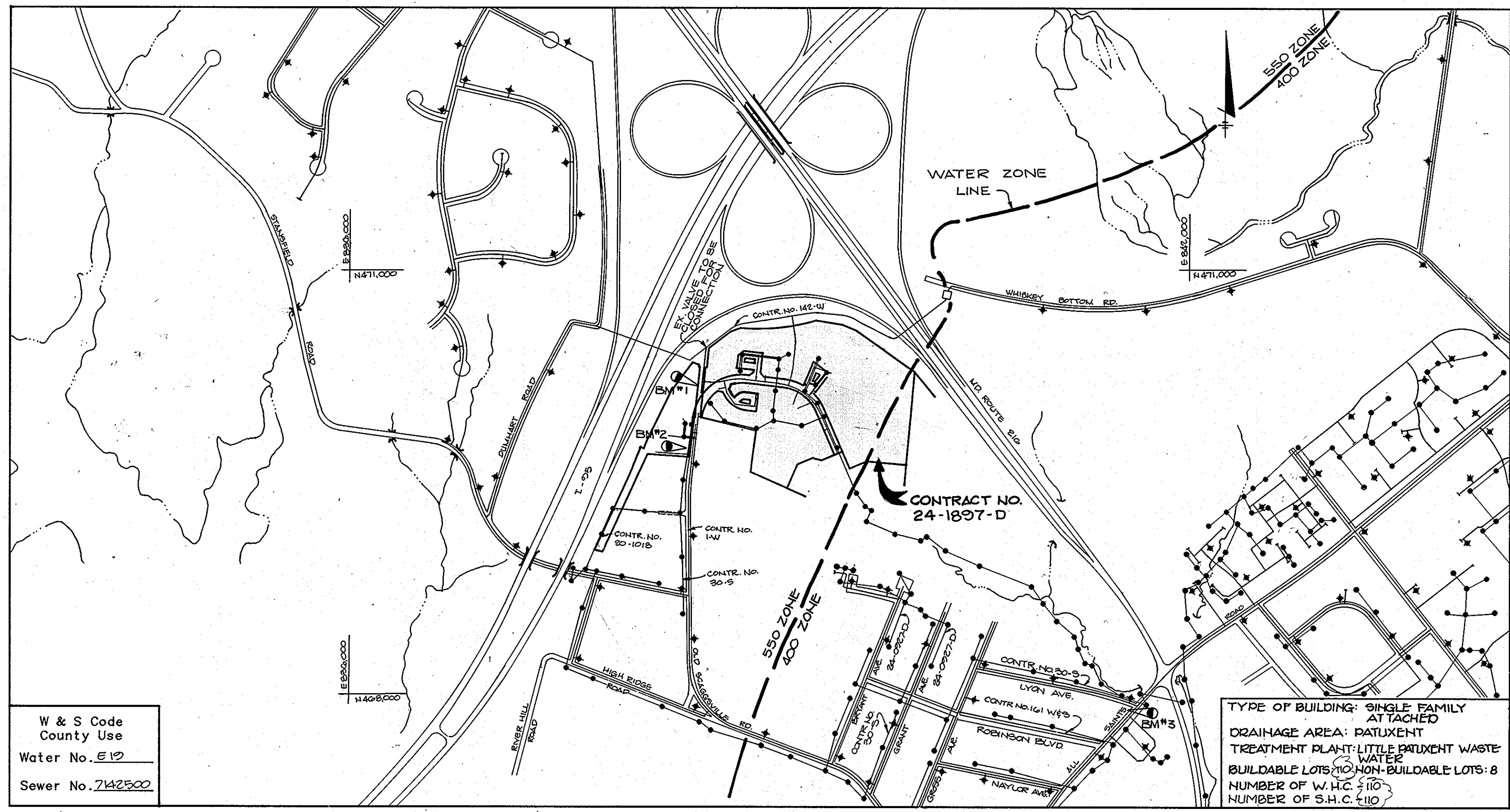
BENCH MARKS
 BM #1 - RR SPIKE SET IN 8446 POLE #108961 WEST SIDE OF OLD SCAGGSVILLE ROAD & FENCE FOR RT. 95. ELEV. 332.08.
 BM #2 - RR SPIKE SET IN 8446 POLE #375252 WEST SIDE OF OLD SCAGGSVILLE ROAD 50' E SOUTH OF ROAD RAIL ELEV. 328.27.
 BM #3 - RR SPIKE SET IN POLE #13 AT INTERSECTION OF ALL SAINTS ROAD AND LYON AVE. IN SOUTH-WEST CORNER. ELEV. 222.27.

GENERAL NOTES

- 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.
- All vertical controls are based on U.S.G.S. data.
- All pipe elevations shown are \ominus invert elevations.
- Clear all utilities by a minimum of 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, 1989 AMENDMENTS. 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 \square 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 verified by the contractor to his own personal satisfaction. Any damage to existing facilities due to the contractor's negligence shall be repaired at the contractor's expense.
- The contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
Baltimore Gas and Electric Co. - Contractor Services	850-4620
Baltimore Gas and Electric Co. - Underground Damage Control	855-9004
Baltimore Gas and Electric Co. - Trouble Shooting	298-9001
Miss Utility	1-559-0100
Colonial Pipeline Co.	795-1390
Bureau of Utilities, Ho.Co. Department of Public Works	992-2366
C & P Telephone Co.	1-800-257-7777
- 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.
- 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 construction of the main.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Top of all water mains to have a minimum of 3-1/2" cover unless otherwise noted.
- Valves adjacent to trees shall be strapped to trees.
- 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 elevation shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 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 the plans or in the Specifications.
- All service clamps are to have stainless straps.
- All D.I.P. fittings shall be in accordance with A.W.W.A. specifications C-153 Ductile Iron Compact Fittings, 3" through 12" for water and other liquids.
- All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., or P.V.C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- 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 65.52. Where watertight manhole 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 the cellar cannot be served.

QUANTITIES		
ITEM	ESTIMATED	MATERIAL SUPPLIER
8" SEWER	4440 LF	
8" SEWER (OLD CLS)	1771 LF	
4" SHC	2040 LF	
MANHOLES 40 EA.	271 VF	
8" WATER	1848 LF	
6" WATER	2163 LF	
FIRE HYDRANTS	5 EA.	
1" WHC	1502 LF	
3/4" WHC	1242 LF	
8" VALVES	6 EA.	
6" VALVES	13 EA.	
12x8" TSIV	1 EA.	
BLOWOFFS	3 EA.	



VICINITY MAP
SCALE: 1"=600'

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-30-41.

John L. Robertson 8/1/90
HOWARD SOIL CONSERVATION DISTRICT

Review for Howard Soil Conservation District and meets technical requirements.

James M. Helm 8/1/90
SOIL CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Robert W. Ziehm 8/1/90
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

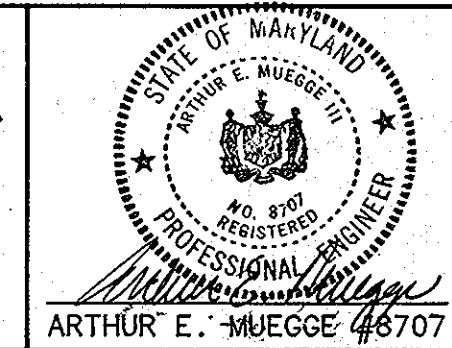
Donald A. Brown 8/1/90
DIRECTOR OF PUBLIC WORKS (Acting) DATE

William E. Ryan 8/1/90
CHIEF, BUREAU OF ENGINEERING DATE

Michael J. Brennan 7-21-90
CHIEF, BUREAU OF UTILITIES DATE

William E. Ryan 8/1/90
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
3105 NORTH RIDGE ROAD
ELLCOTT CITY, MARYLAND
(301) 461-2690



DES: W.C.W. & D.A.M.					
DRN: G.D.H.					
CHK: J.D.P.	MAD	2	REVISED LENGTH OF 1" & 3/4" WHC'S IN QUANTITIES BOX	8-8-90	
DATE: 9-25-89	MAD	1	REVISED NO. OF LOTS, NO. OF H.C.'S, & QUANTITIES BOX	7-27-91	
	BY	NO.	REVISION	DATE	

TITLE SHEET

600' SCALE MAP NO. 47 BLOCK NO. 1222

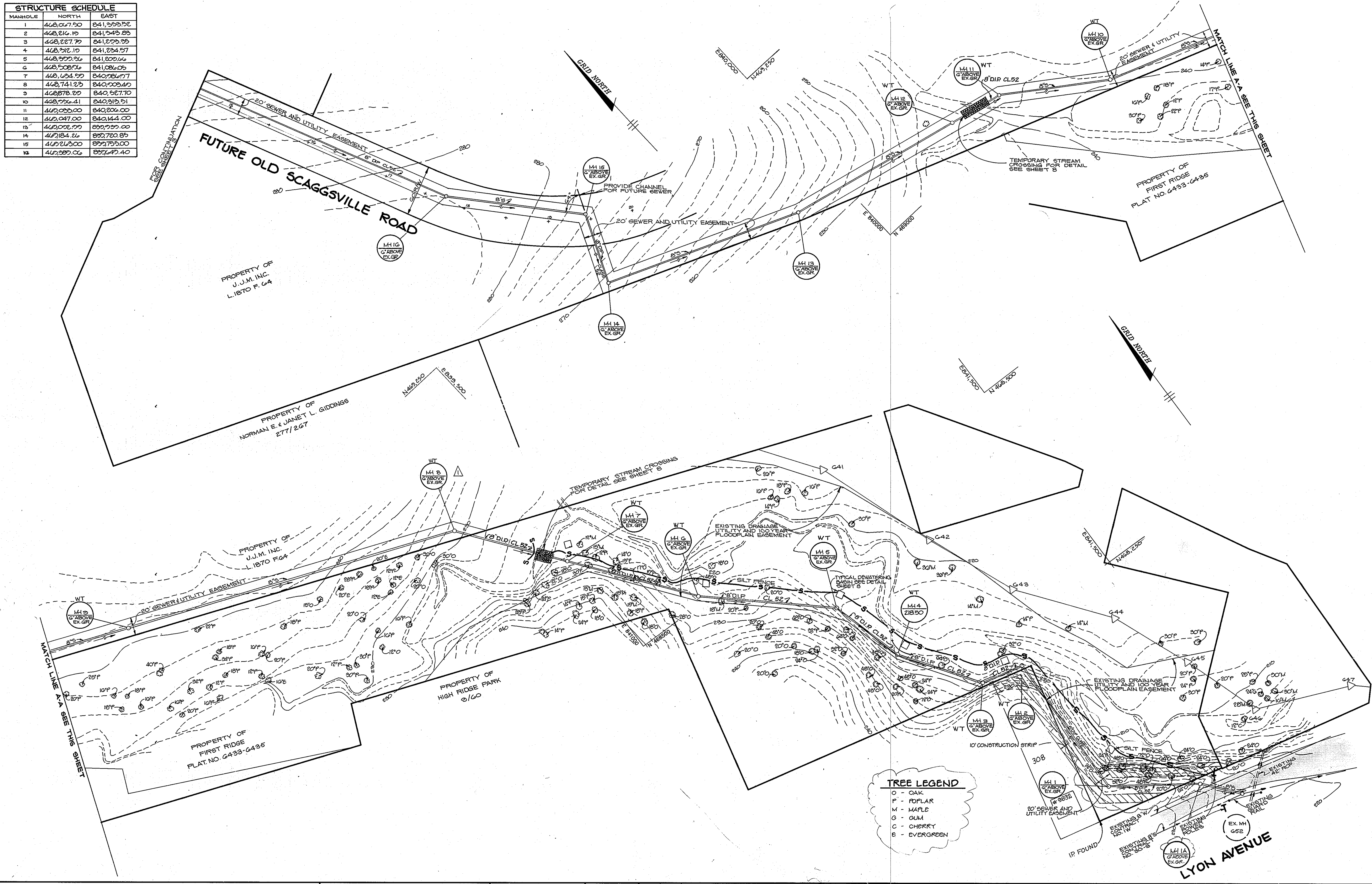
WYNDEMERE
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1897-D

SCALE AS SHOWN

SHEET 1 OF 8

As-BUILT

STRUCTURE SCHEDULE		
MANHOLE	NORTH	EAST
1	468,067.50	841,252.52
2	468,216.10	841,243.85
3	468,227.77	841,223.25
4	468,212.10	841,234.57
5	468,222.26	841,202.66
6	468,208.96	841,086.05
7	468,434.57	840,286.77
8	468,741.22	840,003.40
9	468,878.22	840,587.70
10	468,726.41	840,212.51
11	467,020.00	840,826.00
12	467,047.00	840,144.00
13	467,021.77	839,725.00
14	467,164.26	839,720.85
15	467,263.00	839,725.00
16	467,227.00	839,747.40



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

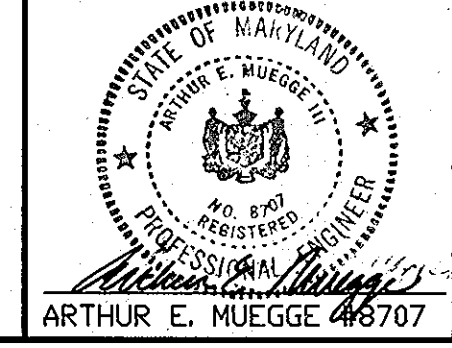
Michael A. ... 8/1/00
DIRECTOR OF PUBLIC WORKS (Acting) DATE

William B. ... 8/1/00
CHIEF, BUREAU OF ENGINEERING DATE

Michael A. ... 8/1/00
CHIEF, BUREAU OF UTILITIES DATE

William B. ... 8/1/00
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
3105 NORTH RIDGE ROAD
ELLCOTT CITY, MARYLAND
(301) 461-2690



DES.	W.C.W. & D.A.M.		
DRN	G.D.H.		
CHK	J.D.P.		
DATE	9-25-89		
BY	ND.	REVISION	DATE
		ES	ADD IP, REV PROP LINE 11-8-91
		MAD	2 REVISED SEWER & LABEL TREES 7-20-00
		J.V.	REVISE MH 8, 9, 10 TO BE WATERTIGHT 10-11-00

PLAN OF A
SEWER MAIN

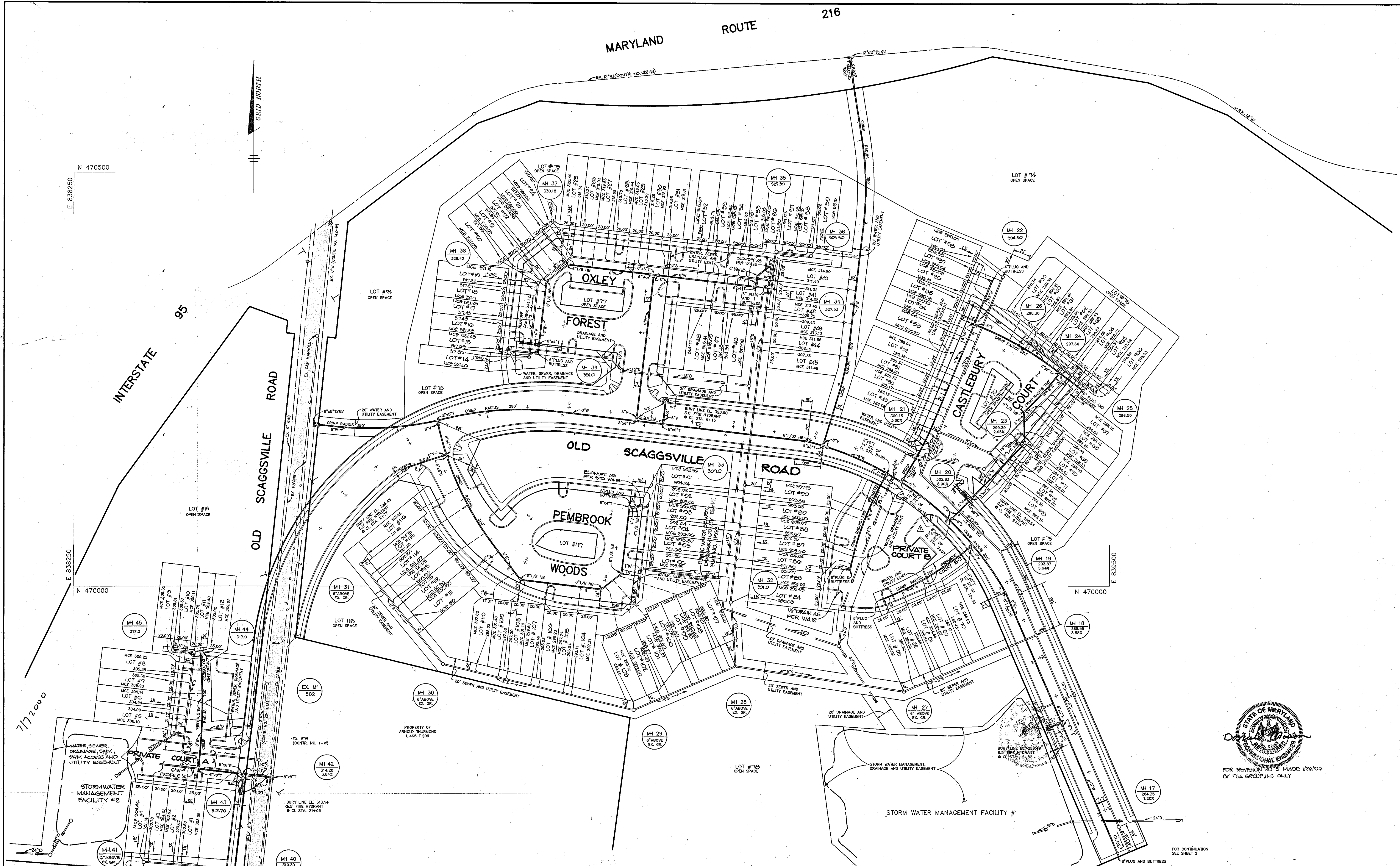
600' SCALE MAP NO. 47 BLOCK NO. 122

WYNDEMERE
SECTION ONE LOT 1-118
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1897-D

SCALE 1"=50'

SHEET 2 OF 8

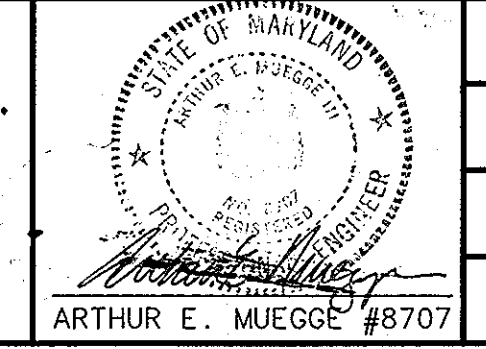
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FOR REVISION 10/5 MADE 1/26/06 BY TSA GROUP, INC. ONLY

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works (Acting) *Michael A. ...* DATE 8/17/06
 Chief, Bureau of Engineering *William ...* DATE 8/17/06
 Chief, Bureau of Utilities *Michael A. ...* DATE 7/27/05
 Chief, Land Development *William ...* DATE 8/16/06

RIEMER MUEGGE & ASSOCIATES, INC.
 3105 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND
 (301) 461-2690

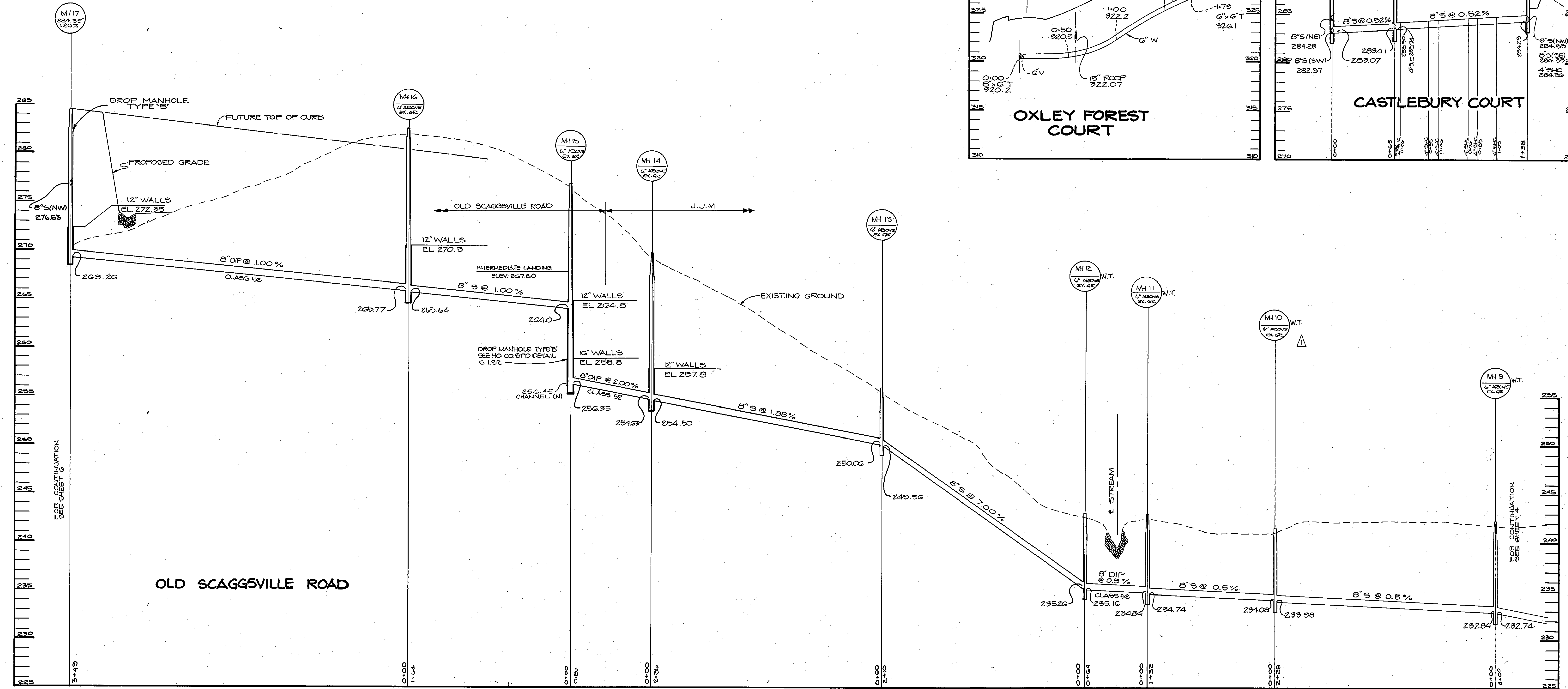
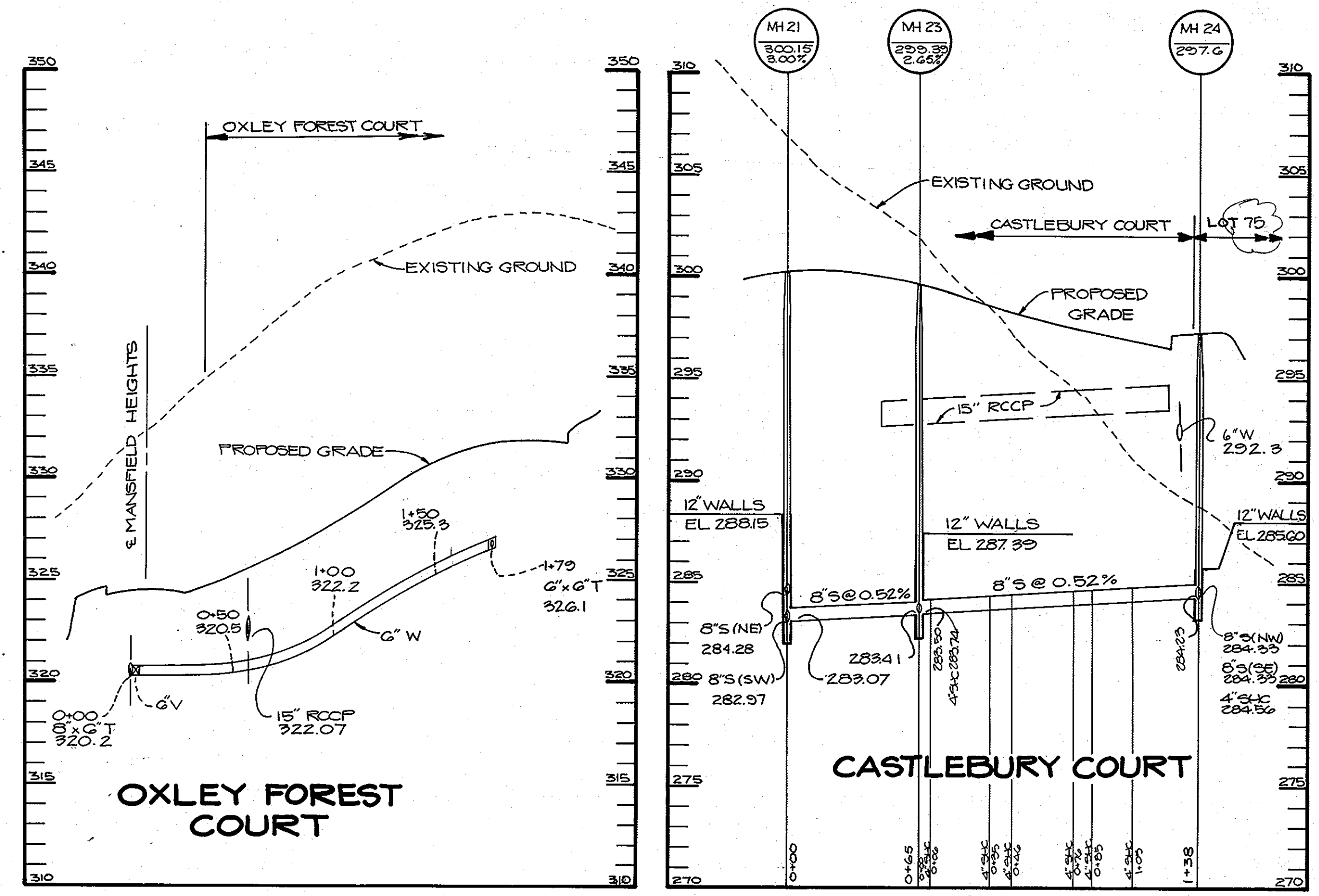


DES. W.C.W. D.A.M.	JCO 5	ADD EASEMENT TO LOT 90	1-26-06
DRN: D.A.M.	MAD 4	REV. WHC'S FOR LOTS 14, 19, 24, 25, 32 & 33 TO BE 1" W	6-2-00
CHK:	MAD 3	REVISED WHC'S FOR LOTS 07 & 110 TO BE 1" W	6-2-02
DATE: 2-2-00	MAD 2	REVISED LOT LAYOUT, MCE'S, INV. OF ENG'S @ LOT LINE	7-27-01
BY NO.	J.V. Δ	REVISE 8" G TO BE 6" ST	6-11-00
	NO.	REVISION	DATE

PLAN OF A WATER MAIN & OF A SEWER MAIN
 600' SCALE MAP NO. 47 BLOCK NO. 12 & 20

WYNDEMERE SECTION ONE LOTS 1-118
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-1897-D
 SCALE 1" = 50'
 SHEET 3 OF 8

AS-BLT



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Michael A. Hunsanville 8/7/90
 DIRECTOR OF PUBLIC WORKS (Acting) DATE

William B. Pugh 8/1/90
 CHIEF, BUREAU OF ENGINEERING DATE

John M. Jones 7-27-90
 CHIEF, BUREAU OF UTILITIES DATE

Arthur E. Muegge 8/7/90
 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 3105 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND
 (301) 461-2690



DES: D.A.M.				
DRN: D.J.E.				
CHK: J.D.P.	WAD	2	REVISED LOT NO.	7-29-91
DATE: 9-25-89	J.V.	Δ	REVERSE MH 9, & 10 TO BE WATERTIGHT	10-11-90
BY	NO.		REVISION	DATE

PROFILES OF
 WATER AND
 SEWER MAINS

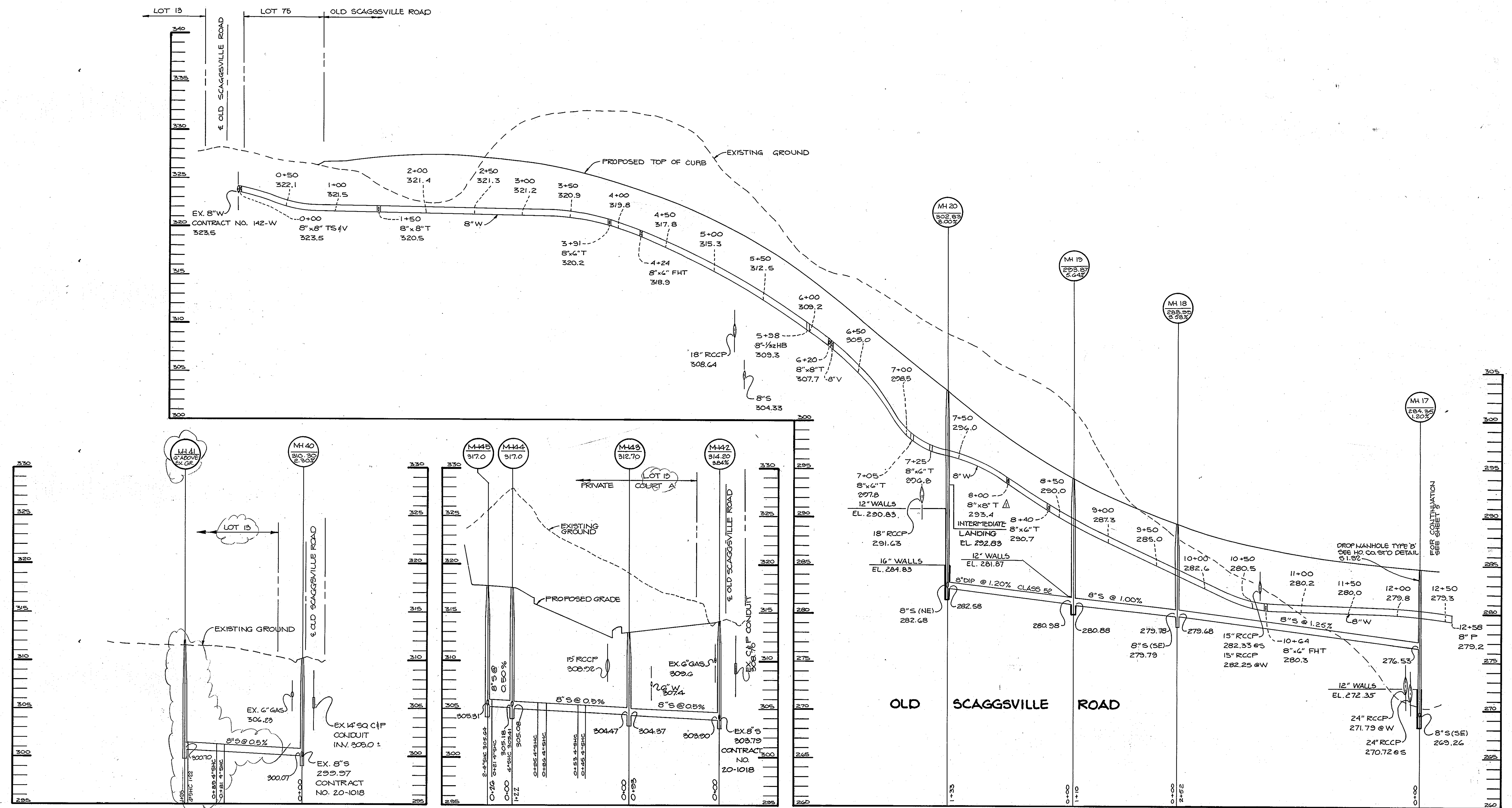
600' SCALE MAP NO. 47 BLOCK NO. 12 & 20

WYDEMERE
 SECTION ONE LOT 1-118
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-1897-D

SCALE
 HOR: 1"=50'
 VERT: 1"=5'

SHEET
 5 OF 8

AS-BLT



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Donald L. Johnson 8/7/90
 DIRECTOR OF PUBLIC WORKS (Acting) DATE

William C. Ryan 8/7/90
 CHIEF, BUREAU OF ENGINEERING DATE

Michael J. ... 9/27/90
 CHIEF, BUREAU OF UTILITIES DATE

... DATE
 CHIEF, LAND DEVELOPMENT

RIEMER MUEGGE & ASSOCIATES, INC.
 3105 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND
 (301) 461-2690



DES: D.A.M.			
DRN: D.J.E.			
CHK: J.D.P.	MAD: E	REVISED MH 41 & LOT NO.	7-20-91
DATE: 9-25-89	J.V. Δ	REVISED 8" G.T TO 8" S.T	04-00
BY: NO.	REVISION		

PROFILES OF WATER AND SEWER MAINS

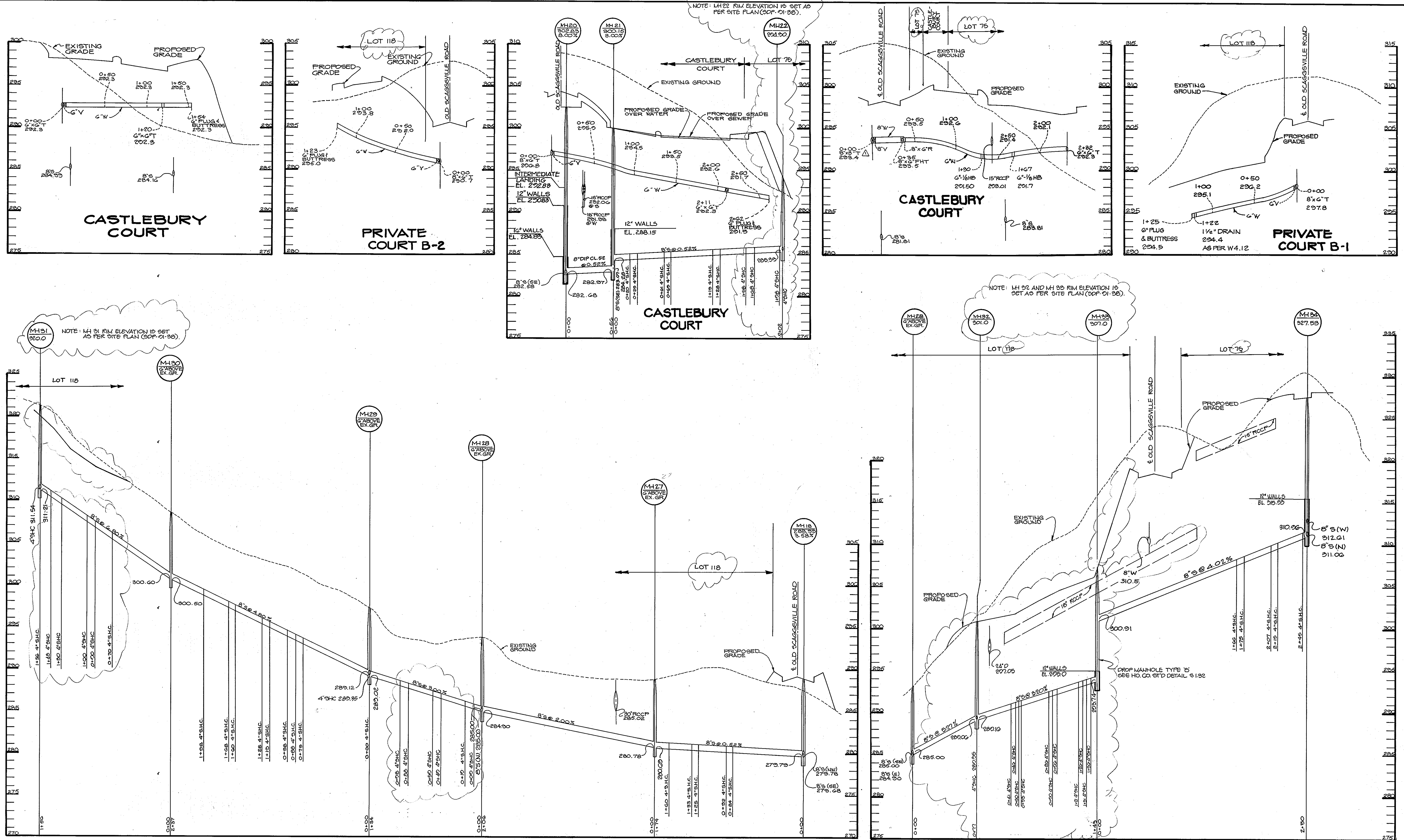
600' SCALE MAP NO. 47 BLOCK NO. 10 & 20

WYNDEMERE SECTION ONE LOT 1-118
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-1897-D

SCALE
 HOR: 1"=50'
 VERT: 1"=5'

SHEET 6 OF 8

AS-BLT



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Donald P. Brown 8/7/90
 DIRECTOR OF PUBLIC WORKS (Acting) DATE

William C. Kelly 8/7/90
 CHIEF, BUREAU OF ENGINEERING DATE

Michael A. Desimone 7-27-90
 CHIEF, BUREAU OF UTILITIES DATE

Arthur E. Muegge 8/6/90
 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 3105 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND
 (301) 461-2690



DES: D.A.M.					
DRN: G.D.H.					
CHK: J.D.P.	MAD	2	REVISED SEWER PROFILES	7-20-91	
DATE: 9-25-89	M.A.D.	1	CHANGED 8" O/T TO 8" S/T	10-27-92	
BY: NO.			REVISION	DATE	

PROFILES OF WATER AND SEWER MAINS

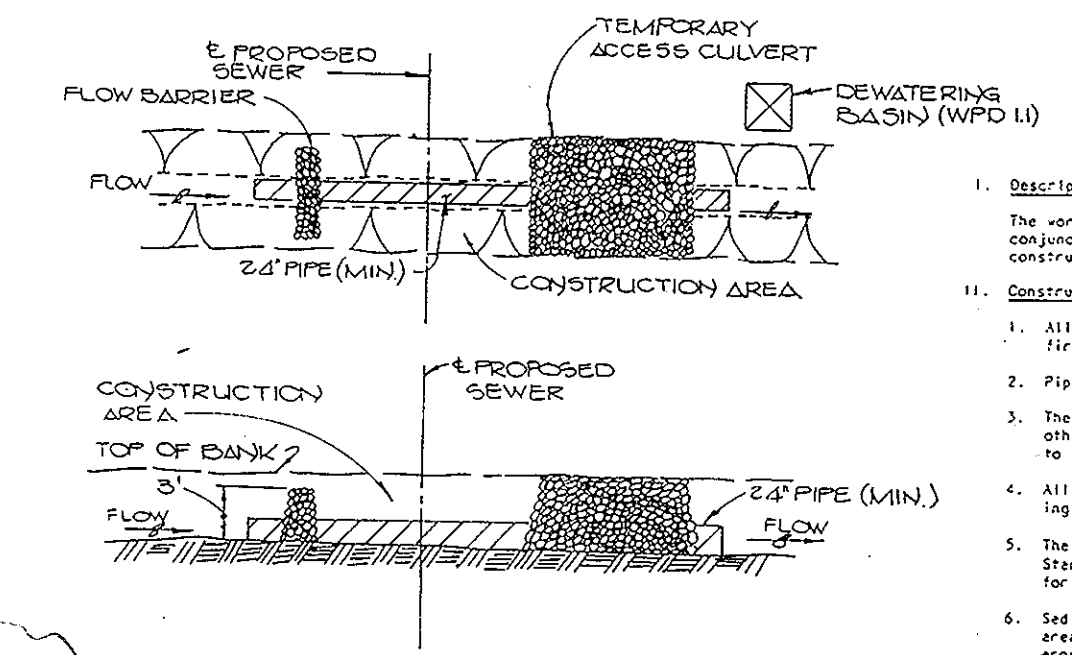
600' SCALE MAP NO. 47 BLOCK NO. 12 & 20

WYNDEMERE SECTION ONE LOT 1-118
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-1897-D

SCALE: HOR. 1"=50' VERT. 1"=5'

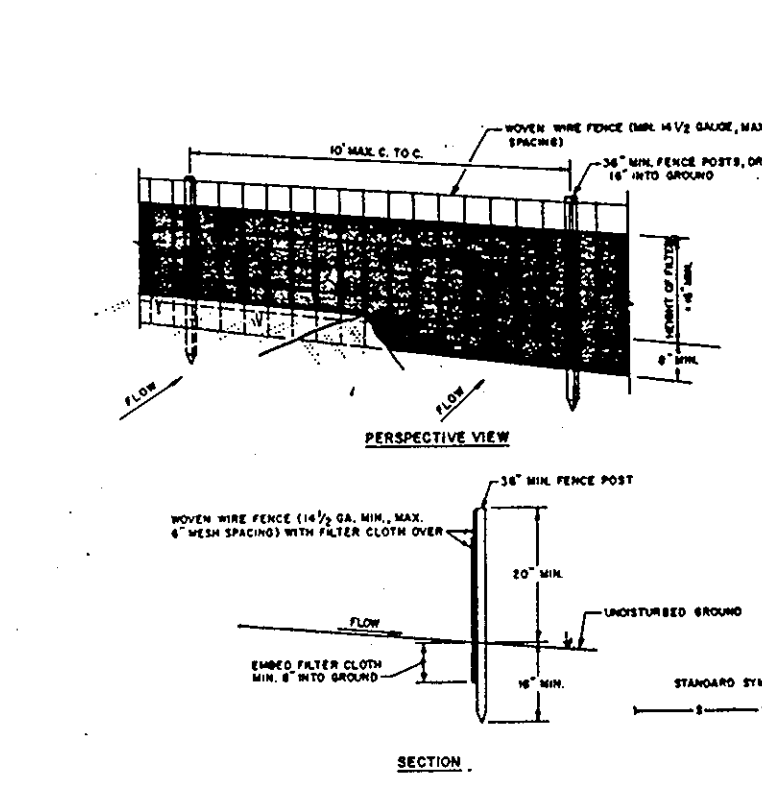
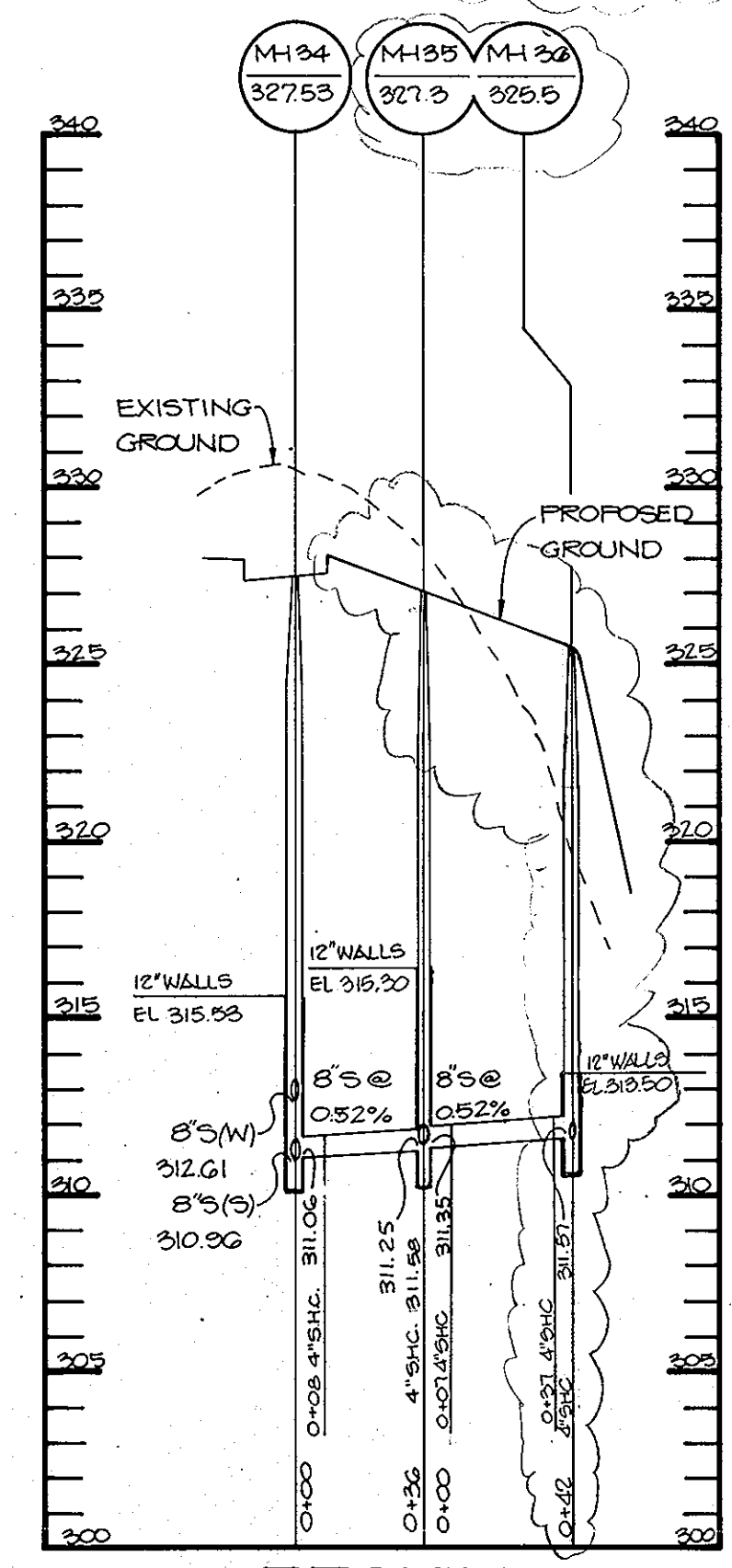
SHEET 7 OF 8

AS-BLT



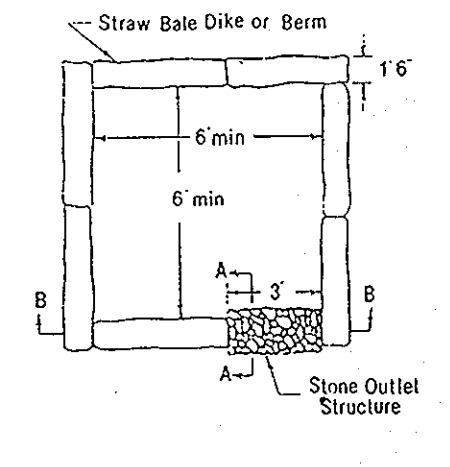
- Description**
The work shall consist of installing a flow diversion structure in conjunction with a temporary culvert crossing during construction work as utility crossings.
- Construction Requirements**
 - All erosion and sediment control devices shall be installed as the first order of business.
 - Pipes must be sized to accommodate normal stream flow.
 - The flow barrier shall be constructed of sandbags, washed riprap, or other approved material as per WSD-3. The materials shall be sized to withstand normal stream flow velocities.
 - All dewatering of the construction area shall be pumped to a dewatering basin (WFD-1) prior to reentering the stream.
 - The temporary culvert crossing shall be constructed in accordance with Standard Detail (SAC-1), 1983 Maryland Standards and Specifications for Sediment and Erosion Control.
 - Sediment control devices shall remain in place until all disturbed areas have been stabilized in accordance with an approved sediment and erosion control plan and the inspecting authority approves their removal.

TEMPORARY STREAM CROSSING
NO SCALE

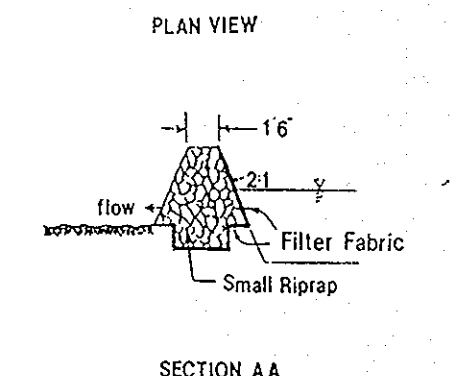


- WIRE MESH FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WIRE MESH FENCE WITH TIE STAPLES EVERY 2' AT TOP AND MID SECTION.
- NEW END SECTIONS OF FENCE MUST BE REINFORCED EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND BOLDED.
- MAINTENANCE SHALL BE PERFORMED AS SOON AS PRACTICABLE TO REMOVE WEAR AND TEAR DEVELOP IN THE SILT FENCE.

SILT FENCE
NO SCALE

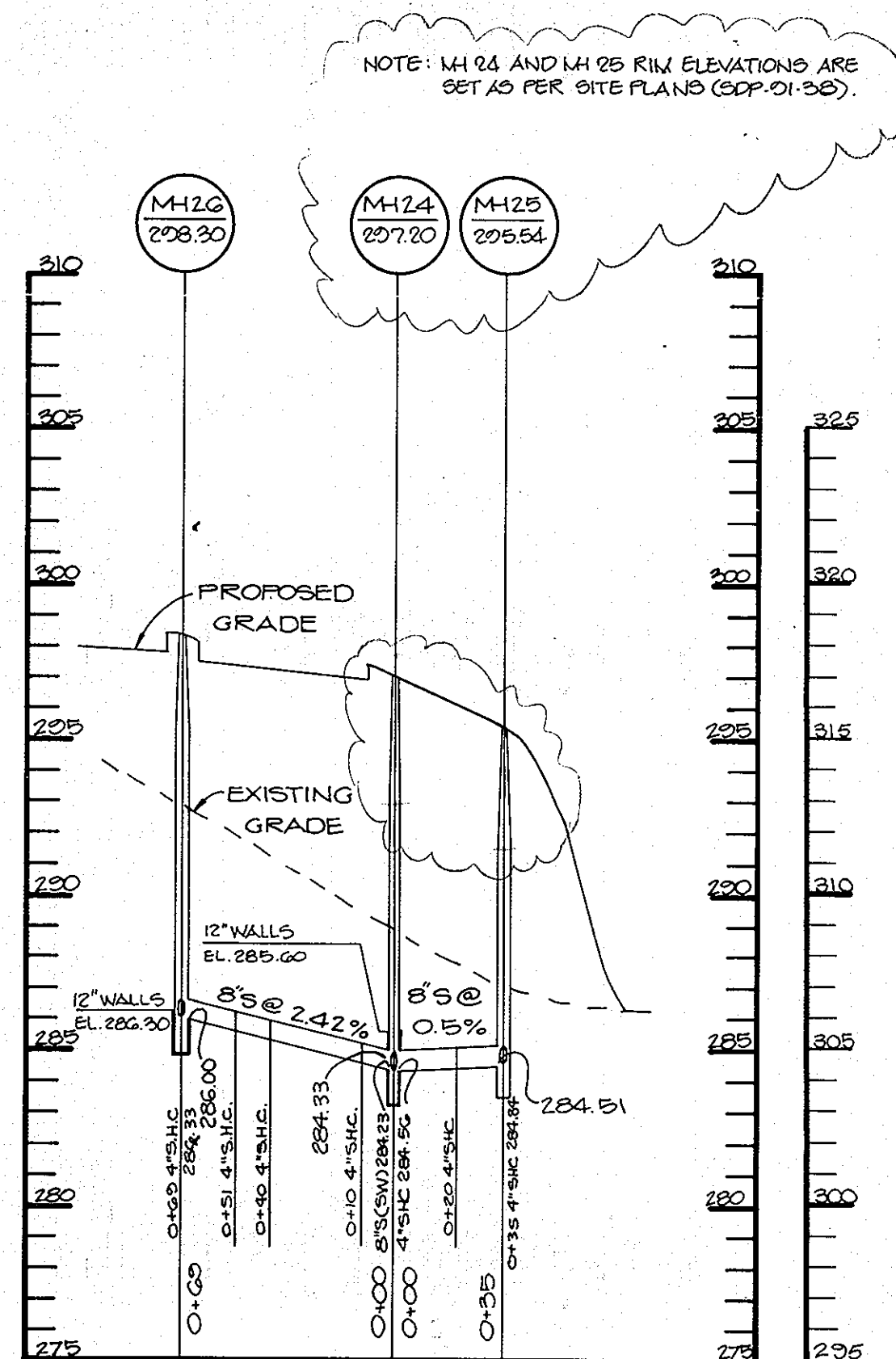


- Description**
The work shall consist of the construction of a dewatering basin for the purpose of receiving sediment-laden water pumped from a construction site to allow filtration before the water re-enters the waterway.
- Material Specifications**
 - Riprap: Riprap shall consist of 4-6 inch washed stone or gravel.
 - Filter Fabric: The filter cloth shall be a woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be inert to commonly encountered chemicals, hydrocarbons, acids, and rot resistant. No. 5 Stone (ASTM D 37) may be used on the inner-face for filtering instead of fabric.
 - Strawbales: Strawbales shall meet the criteria as specified in the Maryland Standards and Specifications for Soil Erosion and Sediment Control.

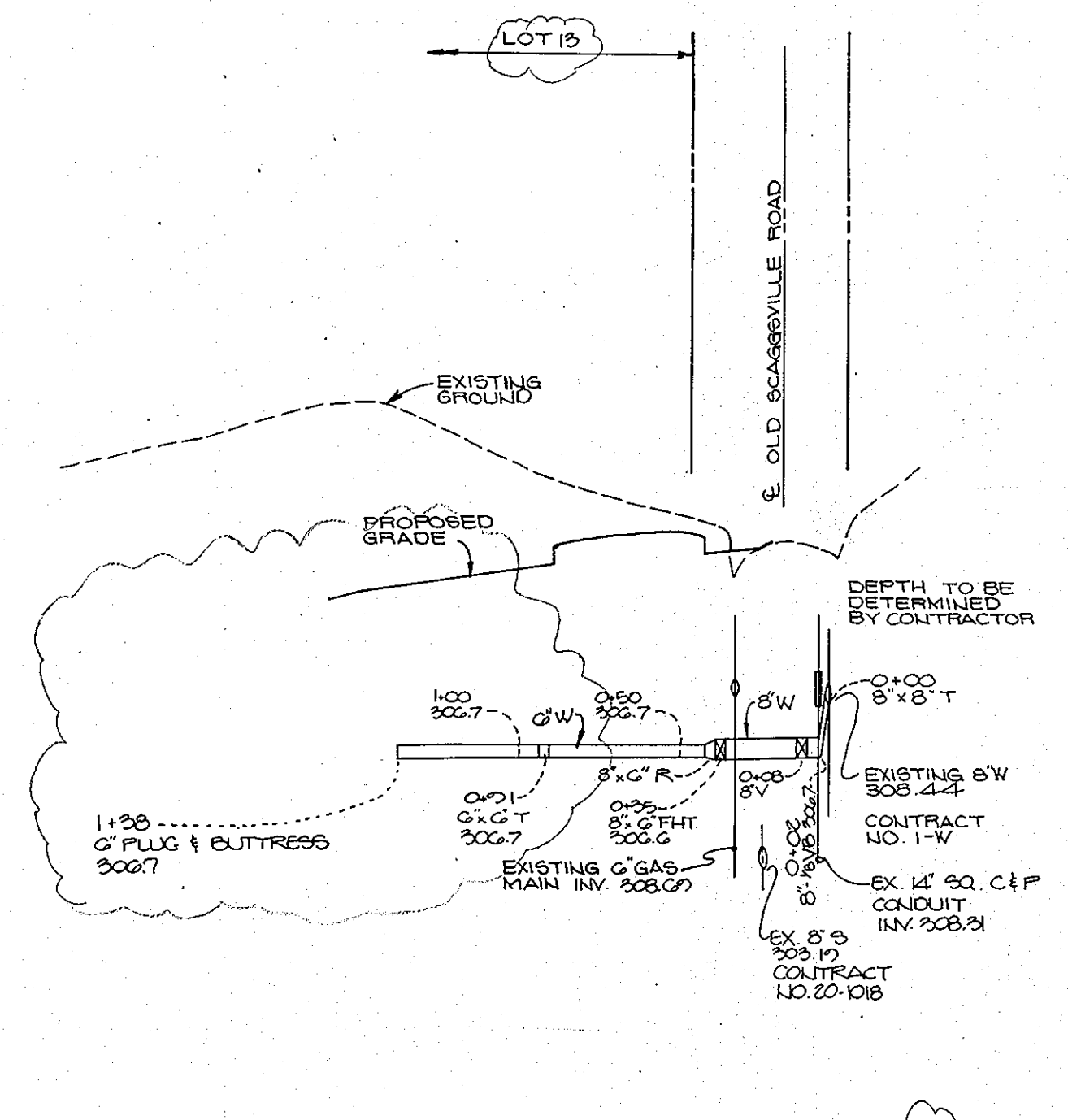


- Construction Requirements**
 - The contractor shall install all sediment and erosion control devices as the first order of business.
 - Excavated materials shall be stored such that sediments are prevented from entering the waterway. I.e., sediment perimeter controls may be necessary.
 - Excavated soil and topsoil shall be kept separate and replaced in their natural order.
 - Any dewatering of the construction area shall be filtered through a dewatering basin prior to entering the waterway.
 - The dewatering basin shall be excavated to a minimum depth of 2 feet.
 - Once the dewatering basin becomes filled with sediment, the basin shall be backfilled to a 300 approved disposal area outside the 100-year floodplain unless otherwise approved on the plans by the MD.
 - Sediment control devices are to remain in place until all disturbed areas are stabilized and the inspecting authority approves their removal. All ground contours shall be returned to their original condition unless specifically approved otherwise by the Administration.

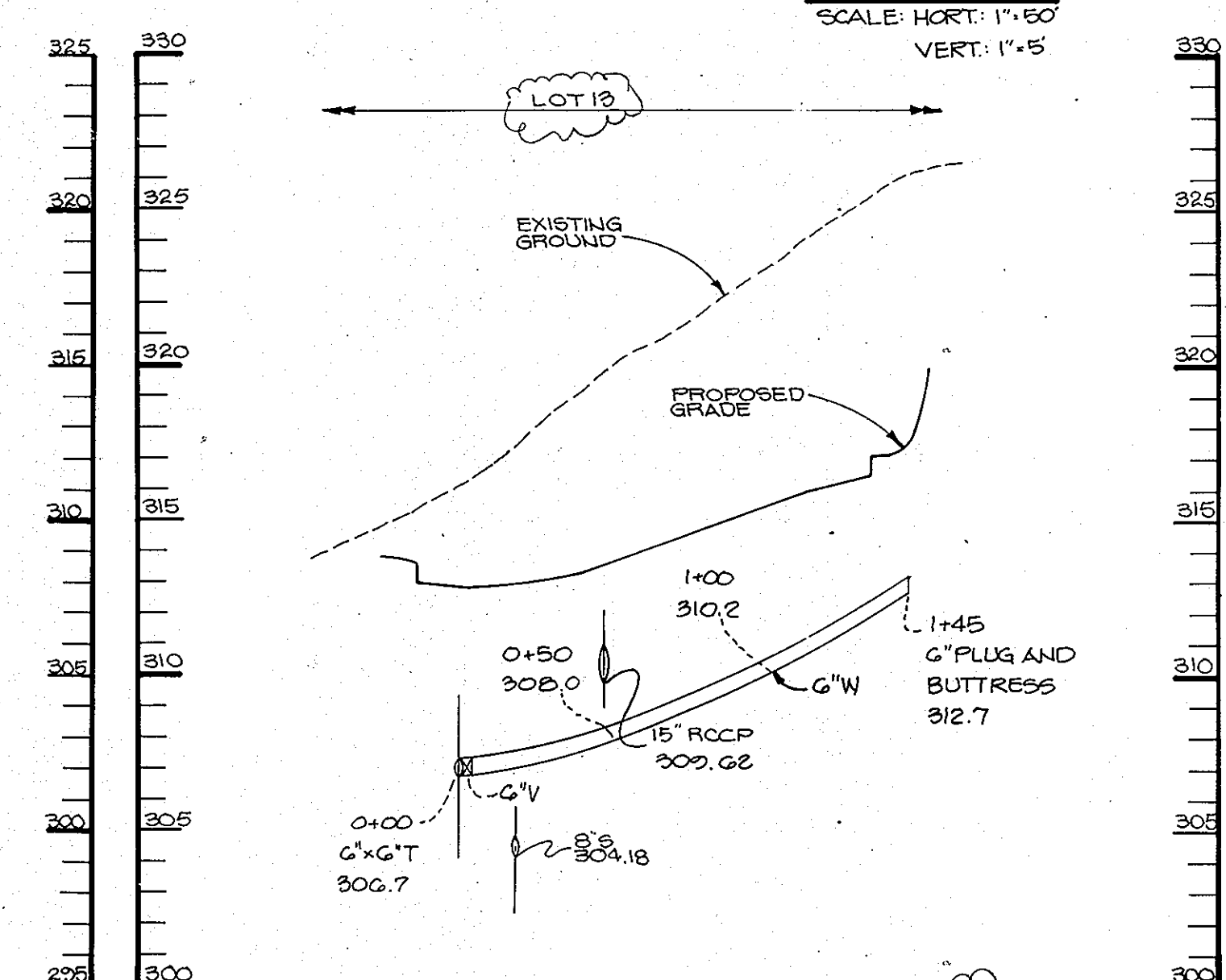
DEWATERING BASIN
NO SCALE



PROFILE A (LOT 12)
SCALE: HOR. 1"=50'
VERT. 1"=5'

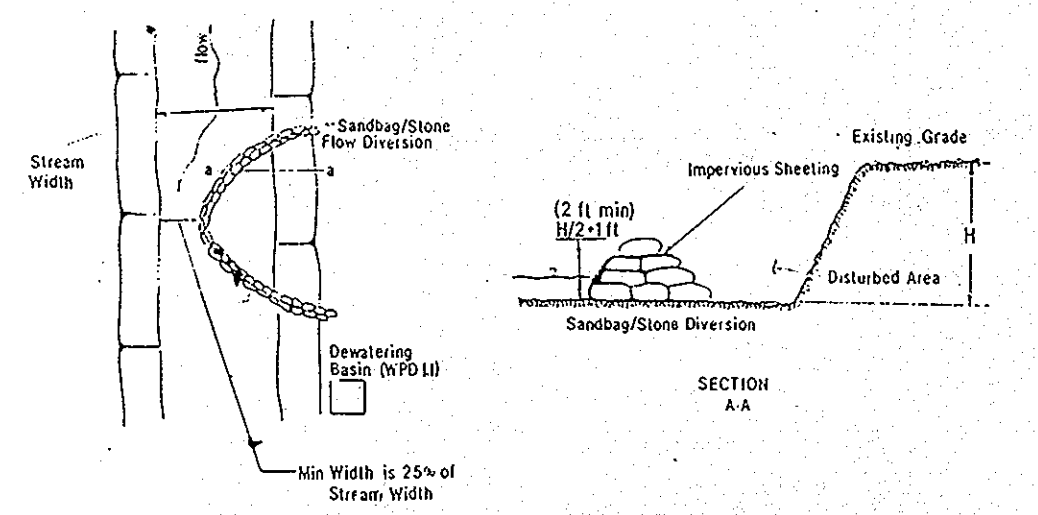


PROFILE A (LOT 13)
SCALE: HOR. 1"=50'
VERT. 1"=5'



PROFILE B (LOT 13)
SCALE: HOR. 1"=50'
VERT. 1"=5'

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.



- Description**
The work shall consist of installing flow diversions for the purpose of erosion control when construction activities take place within the stream channel such as bank stabilization or bridge abutment construction.
- Material Specifications**
 - Sandbags: Sandbags shall consist of materials which are resistant to ultra-violet radiation, tearing and puncture and woven tightly enough to prevent leakage of fill material (i.e., sand, fine gravel, etc.).
 - Stone: Stone shall be washed and have a minimum diameter of 6 inches.
 - Sheeting: Sheeting shall consist of polyethylene or other material which is impervious and resistant to puncture and tearing.
- Construction Requirements**
 - All erosion and sediment control devices shall be installed as the first order of work.
 - The diversion structure shall be installed from upstream to downstream.
 - The height of the diversion structure shall be one half the distance from stream bed to stream bank plus one foot, as indicated on the cross-section view.
 - All excavated materials shall be disposed of in a 300 approved disposal area outside the 100-year floodplain unless otherwise approved on the plans by the MD.
 - All dewatering of the construction area shall be pumped to a dewatering basin prior to reentering the stream.
 - Sheeting shall be overlapped such that the upstream portion covers the downstream portion with at least an 18-inch overlap.
 - Sediment control devices are to remain in place until all disturbed areas are stabilized in accordance with an approved sediment and erosion control plan and the inspecting authority approves their removal.

SANDBAG DIVERSION
NO SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

8/1/90
DIRECTOR OF PUBLIC WORKS (Acting) DATE

CHIEF, BUREAU OF ENGINEERING DATE

4/1/90
CHIEF, BUREAU OF UTILITIES DATE

CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
3105 NORTH RIDGE ROAD
ELLCOTT CITY, MARYLAND
(301) 461-2690

ARTHUR E. MUEGGE
PROFESSIONAL ENGINEER
CONTRACT NO. 24-1897-D

DES: D.A.M.			
DRN: D.J.E.			
CHK: J.D.P.			
DATE: 9-25-89			
MAD 1	REVISED WATER PROFILE A & SEWER PROFILES	7-80-91	
BY NO.	REVISION	DATE	

PROFILES OF WATER MAINS
AND DETAILS SHEET

600' SCALE MAP NO. 47 BLOCK NO. 19 & 20

WYNDEMERE
SECTION ONE LOT 1-118
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1897-D

SCALE AS SHOWN

SHEET 8 OF 8

AS-BLT

LOT	TYPE	DIST.	DESCRIPTION	LOT	TYPE	DIST.	DESCRIPTION	LOT	TYPE	DIST.	DESCRIPTION	LOT	TYPE	DIST.	DESCRIPTION	LOT	TYPE	DIST.	DESCRIPTION
1	S	48.3'	TO MH-431	23	S	46.9'	TO MH-37	45	S	82.5'	TO MH-34	67	S	38.3'	TO MH-24	89	S	31.2'	TO MH-33
	S	83.1'	TO MH-40		S	43.7'	TO MH-38		S	48.1'	TO MH-30 S.D.MH-3		S	109.9'	TO MH-23		S	123.0'	TO MH-32
	W	44.3'	TO MH-43		W	50.8'	TO MH-37		W	42.4'	TO W.H.C.-44		W	42.4'	TO MH-24		W	117.2'	N.W. COR./INLET
	W	68.2'	TO S.E. COR./INLET		W	56.2'	TO MH-38		W	106.2'	TO SOUTH TO 8'V IN OLD SCAGGSVILLE RD.		W	106.2'	TO MH-23		W	4.8'	TO W.H.C.-90
2	S	89.9'	TO MH-40	24	S	46.3'	TO MH-37	46	S	N/A	68	S	57.3'	TO MH-24	90	S	25.3'	TO MH-33	
	S	39.5'	TO MH-41		S	71.7'	TO MH-38		S	N/A		S	91.6'	TO MH-23		S	132.5'	TO MH-32	
	W	43.0'	TO MH-43		W	74.9'	TO MH-38		W	N/A		W	47.6'	TO MH-24		W	121.7'	N.W. COR./INLET	
	W	66.4'	TO S.E. COR./INLET		W	47.2'	TO MH-37		W	N/A		W	101.0'	TO MH-23		W	76.4'	N.E. TO S.W. COR./INLET	
3	S	13.1'	TO MH-41	25	S	35.4'	TO MH-37	47	S	N/A	69	S	47.6'	TO MH-24	91	S	126.9'	TO MH-32	
	S	122.4'	TO MH-40		S	244.8'	TO MH-34		S	N/A		S	51.0'	TO MH-23		S	25.1'	TO MH-33	
	W	50.4'	TO MH-43		S	79.5'	TO MH-38		S	N/A		W	82'	TO MH-24		W	114.8'	TO N.FACE INLET	
	W	66.9'	TO S.E. COR./INLET		W	37.2'	TO MH-37		S	N/A		W	70.8'	TO MH-23		W	30.5'	TO BLOW-OFF	
4	S	14.0'	TO MH-41	26	S	36.7'	TO MH-37	48	S	N/A	70	S	59.6'	TO MH-23	92	S	25.1'	TO MH-33	
	S	133.3'	TO MH-40		S	233.0'	TO MH-34		S	N/A		S	96.0'	TO MH-24		S	126.9'	TO MH-32	
	W	54.2'	TO MH-43		S	43.2'	TO MH-37		S	N/A		W	65.0'	TO MH-23		W	111.2'	TO N.FACE INLET	
	W	68.7'	TO S.E. COR./INLET		W	220.8'	TO MH-34		S	N/A		W	88.7'	TO MH-24		W	29.0'	TO BLOW-OFF	
5	S	49.4'	TO MH-43	27	S	51.0'	TO MH-37	49	S	39.7'	TO MH-21	71	S	52.7'	TO MH-23	93	S	95.7'	TO MH-32
	S	78.2'	TO MH-44		S	206.0'	TO MH-34		S	185.0'	TO MH-22		S	105.0'	TO MH-24		S	52.6'	TO MH-33
	W	43.8'	TO MH-43		W	45.9'	TO MH-37		W	38.8'	TO MH-21		W	46.1'	TO MH-23		W	75.5'	TO N.FACE INLET
	W	83.7'	TO MH-44		W	216.0'	TO MH-34		W	194.0'	TO MH-22		W	121.7'	TO MH-24		W	25.0'	TO BLOW-OFF
6	S	58.4'	TO MH-43	28	S	58.7'	TO MH-37	50	S	48.0'	TO MH-21	72	S	43.8'	TO MH-23	94	S	86.2'	TO MH-32
	S	69.0'	TO MH-44		S	195.4'	TO MH-34		S	176.2'	TO MH-22		S	137.2'	TO MH-24		S	62.3'	TO MH-33
	W	69.6'	TO MH-43		W	71.7'	TO MH-37		W	54.3'	TO MH-21		W	45.3'	TO MH-23		W	70.9'	TO N.FACE INLET
	W	58.1'	TO MH-44		W	181.1'	TO MH-34		W	166.2'	TO MH-22		W	127.1'	TO MH-24		W	28.1'	TO BLOW-OFF
7	S	90.0'	TO MH-43	29	S	87.0'	TO MH-37	51	S	67.3'	TO MH-21	73	S	42.6'	TO MH-23	95	S	56.3'	TO MH-32
	S	40.3'	TO MH-44		S	164.3'	TO MH-34		S	144.8'	TO MH-22		S	43.9'	TO MH-24		S	92.7'	TO MH-33
	W	74.3'	TO MH-43		W	75.3'	TO MH-37		W	58.2'	TO MH-21		W	43.9'	TO MH-23		W	37.9'	TO N.FACE INLET
	W	53.7'	TO MH-44		W	177.1'	TO MH-34		W	161.3'	TO MH-22		W	32.3'	TO MH-20		W	56.9'	TO BLOW-OFF
8	S	99.2'	TO MH-43	30	S	96.5'	TO MH-37	52	S	75.3'	TO MH-21	74	S	OPEN SPACE	96	S	47.8'	TO MH-32	
	S	33.6'	TO MH-44		S	153.7'	TO MH-34		S	140.5'	TO MH-22		S	59.7'	TO MH-23		S	100.6'	TO MH-33
	W	103.8'	TO MH-43		W	107.9'	TO MH-37		W	83.2'	TO MH-21		W	132.0'	TO MH-22		W	32.8'	TO N.FACE INLET
	W	28.2'	TO MH-44		W	141.7'	TO MH-34		W	132.0'	TO MH-22		W	OPEN SPACE		W	62.6'	TO BLOW-OFF	
9	S	17.0'	TO MH-45	31	S	118.5'	TO MH-37	53	S	120.9'	TO MH-21	75	S	OPEN SPACE	97	S	32.1'	TO MH-28	
	S	34.8'	TO MH-44		S	130.9'	TO MH-34		S	94.2'	TO MH-22		S	OPEN SPACE		S	127.4'	TO MH-29	
	W	16.0'	TO MH-45		W	111.7'	TO MH-37		W	116.0'	TO MH-21		W	OPEN SPACE		W	70.1'	TO S.W. COR./INLET	
	W	38.3'	TO MH-44		W	139.2'	TO MH-34		W	99.1'	TO MH-22		W	OPEN SPACE		W	22.1'	TO W.H.C.-98	
10	S	14.8'	TO MH-45	32	S	162.4'	TO MH-37	54	S	130.3'	TO MH-21	76	S	OPEN SPACE	98	S	36.7'	TO MH-28	
	S	26.3'	TO MH-44		S	89.2'	TO MH-34		S	85.0'	TO MH-22		S	OPEN SPACE		S	118.9'	TO MH-29	
	W	21.3'	TO MH-45		W	154.7'	TO MH-37		W	143.0'	TO MH-21		W	OPEN SPACE		W	53.5'	TO S.W. COR./INLET	
	W	17.9'	TO MH-44		W	96.2'	TO MH-34		W	76.7'	TO MH-22		W	OPEN SPACE		W	5.2'	TO W.H.C.-99	
11	S	8.5'	TO MH-44	33	S	172.6'	TO MH-37	55	S	159.8'	TO MH-21	77	S	OPEN SPACE	99	S	57.8'	TO MH-28	
	S	27.0'	TO MH-45		S	80.3'	TO MH-34		S	59.9'	TO MH-22		S	OPEN SPACE		S	88.2'	TO MH-29	
	W	36.7'	TO MH-45		W	66.5'	TO MH-34		W	148.2'	TO MH-21		W	OPEN SPACE		W	49.3'	TO S.W. COR./INLET	
	W	11.6'	TO MH-44		W	60.2'	TO MH-35		W	69.2'	TO MH-22		W	OPEN SPACE		W	37.2'	TO W.H.C.-100	
12	S	47.8'	TO MH-45	34	S	203.8'	TO MH-37	56	S	169.9'	TO MH-21	78	S	OPEN SPACE	100	S	65.7'	TO MH-28	
	S	21.2'	TO MH-44		S	55.2'	TO MH-34		S	52.0'	TO MH-22		S	OPEN SPACE		S	79.7'	TO MH-29	
	W	50.9'	TO MH-45		W	62.0'	TO MH-34		W	182.4'	TO MH-21		S	OPEN SPACE		W	487.5'	TO S.W. COR./INLET	
	W	24.2'	TO MH-44		W	55.4'	TO MH-35		W	43.9'	TO MH-22		S	OPEN SPACE		W	6.0'	TO W.H.C.-101	
13	S	OPEN SPACE		35	S	211.3'	TO MH-37	57	S	198.5'	TO MH-21	79	S	87.2'	TO MH-18	101	S	89.3'	TO MH-28
	S	"			S	48.0'	TO MH-34		S	37.6'	TO MH-22		S	89.0'	TO MH-27		S	48.6'	TO MH-29
	W	"			W	48.9'	TO MH-34		W	186.8'	TO MH-21		W	65.2'	N.E. TO 6" VALVE IN ROAD		W	48.5'	TO S.W. COR./INLET
	W	"			W	23.8'	TO MH-35		W	42.2'	TO MH-22		W	112.6'	WEST TO N.E. COR./INLET		W	33.4'	TO W.H.C.-102
14	S	47.4'	TO MH-39	36	S	7.5'	TO MH-35	58	S	214.0'	TO MH-21	80	S	94.9'	TO MH-18	102	S	97.5'	TO MH-28
	S	104.6'	TO MH-38		S	42.4'	TO MH-34		S	39.2'	TO MH-22		S	81.2'	TO MH-27		S	37.3'	TO MH-29
	W	46.2'	TO MH-39		W	18.9'	TO MH-35		W	208.3'	TO MH-21		W	108.7'	TO N.E. COR./INLET		W	63.9'	TO S.W. COR./INLET
	W	107.4'	TO MH-38		W	47.2'	TO MH-34		W	37.7'	TO MH-22		W	34.3'	TO W.H.C.-81		W	33.4'	TO W.H.C.-101
15	S	38.6'	TO MH-39	37	S	11.0'	TO MH-35	59	S	35.5'	TO MH-26	81	S	127.0'	TO MH-18	103	S	131.5'	TO MH-28
	S	92.4'	TO MH-38		S	36.4'	TO MH-36		S	46.3'	TO MH-22		S	49.3'	TO MH-27		S	9.2'	TO MH-29
	W	78.8'	TO MH-38		W	20.5'	TO MH-35		W	53.6'	TO MH-22		W	77.5'	TO N.E. COR./INLET		W	67.5'	TO S.W. COR./INLET
	W	40.7'	TO MH-39		W	26.2'	TO MH-36		W	27.8'	TO MH-26		W	34.3'	TO W.H.C.-80		W	51.0'	TO W.H.C.-104
16	S	50.4'	TO MH-39	38	S	38.9'	TO MH-35	60	S	15.5'	TO MH-26	82	S	134.4'	TO MH-18	104	S	156.9'	TO MH-30
	S	66.0'	TO MH-38		S	10.6'	TO MH-36		S	70.9'	TO MH-24		S	42.3'	TO MH-27		S	80.6'	TO MH-29
	W	74.7'	TO MH-38		W	24.4'	TO MH-36S		W	16.6'	TO MH-26		W	72.9'	TO N.E. COR./INLET		W	82.1'	TO S.W. COR./INLET
	W	43.3'	TO MH-39		W	21.5'	TO MH-36		W	67.4'	TO MH-24		W	22.6'	TO W.H.C.-81		W	51.0'	TO W.H.C.-103
17	S	58.8'	TO MH-39	39	S	48.7'	TO MH-35	61	S	25.8'	TO MH-26	83	S	163.8'	TO MH-18	105	S	89.0'	TO MH-29
	S	57.1'	TO MH-38		S	12.0'	TO MH-36		S	53.4'	TO MH-24		S	16.0'	TO MH-27		S	147.6'	TO MH-30
	W	46.6'	TO MH-38		W	56.5'	TO MH-35		W	18.9'	TO MH-26		W	52.6'	TO N.E. COR./INLET		W	85.8'	TO S.W. COR./INLET
	W	66.8'	TO MH-39		W	16.8'	TO MH-36		W	62.6'	TO MH-24		W	22.6'	TO W.H.C.-82		W	5.0'	TO W.H.C.-104
18	S	84.7'	TO MH-39	40	S	28.0'	TO MH-36	62	S	32.3'	TO MH-26	84	S	141.2'	TO MH-33	106	S	31.4'	TO W.H.C.-105
	S	39.3'	TO MH-38		S	11.8'	TO MH-34		S	23.0'	TO MH-24		S	23.0'	TO MH-32		S	112.6'	TO S.W. COR./INLET
	W	43.7'	TO MH-38		W	4.5'	TO W.H.C.-41		W	42.8'	TO MH-26		W	31.7'	TO N.W. COR./INLET		S	115.9'	TO MH-30
	W	72.3'	TO MH-39		W	N/A			W	31.7'	TO MH-24		W	20.2'	TO W.H.C.-85		S		