### GENERAL NOTES

### PART

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 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 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:

 VERIZON
 I-800-446-5266

 STATE HIGHWAY ADMINISTRATION
 531-5533

 B.G. & E. CO. CONTRACTOR SERVICES
 850-4620

 B.G. & E. CO. UNDER GROUND DAMAGE CONTROL
 291-4607

 MISS UTILITY
 1-800-257-7777

MISS UTILITY
COLONIAL PIPELINE CO.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
BUREAU OF UTILITIES

1-800-25
549-4120
313-4900

- 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.
- 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.

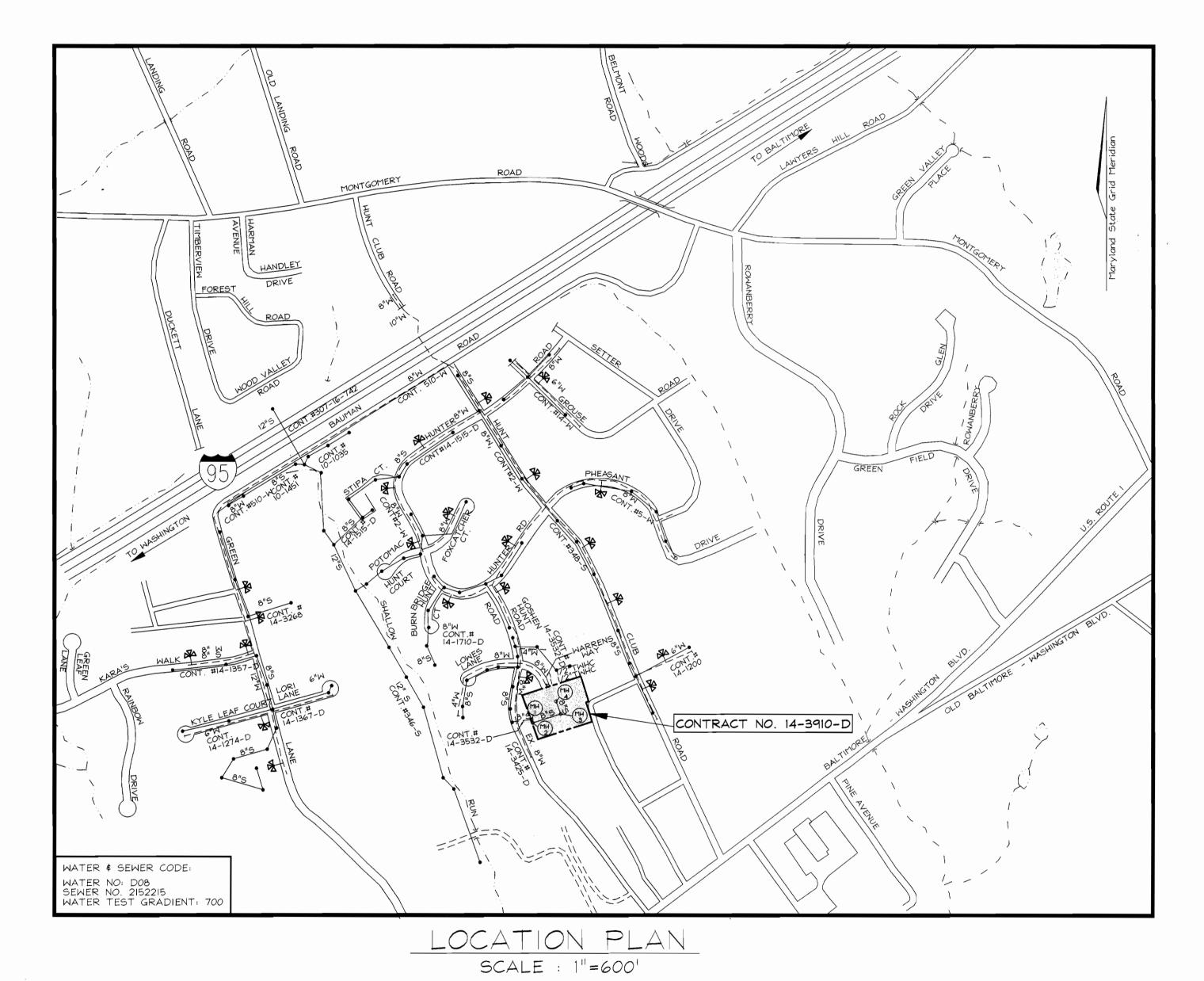
### <u> Part II - Sewer</u>

I. ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.

- 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 OTHERWISE NOTED.
- 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 NOTED ON THE DRAWINGS.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR

## TYPE OF BUILDING: NO. OF LOTS/PARCELS: NO. OF WATER HOUSE CONNECTIONS: 4 NO. OF SEWER HOUSE CONNECTIONS: DRAINAGE AREA: TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT; CITY OF BALTIMORE

# MILES PROPERTY PUBLIC WATER AND SEWER PLANS HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3910-D



MONTGOMERY
WOODS
ROWNINGERRY
OR
RO
HARWOOD
IND PARK
HARWOOD
PARK

SCALE: I" = 2000"

HOWARD COUNTY GEODETIC CONTROL STATION NO. 38D5

N 558,378.575 E 1,386,524.157 ELEVATION: 193.718

STATION NO. 38D6

N 557155.459 E 1,384,992.261 ELEVATION: 175.222

		QUANT	ITIES						
NAME OF L	NAME OF UTILITY CONTRACTOR :								
SURVEY AN	ND DRAFTING	DIVISION AS-B	uilt dat	E:					
ITEMS	AS-BUILT AS-BUILT								
112113	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER					
1 1/2" WHC	62 LF								
4" SHC	45 LF								
MANHOLE	4 EACH								
8" SEWER	263 LF								
I' WATER	20 LF								
METER BOX	4 EACH								

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH F-00-137

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

M. /2/12
CONSERVATION DISTRICT

/2/12

DA

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

CHIEF, DEVELOPMENT ENGINEERING DIVISION DA

ASSOCIATES
ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

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J. Harmanian D.	S. C. S. Market		1019?	C. P. C. P. C. P. C. P. C. P.	UAI	03	
	DE RT	ابر <u>برا</u>	VOGE		E. N	0.	16193

ATE: 2000 BY NO. REVISION DATE 600' SCALE MAP NO. 38 BLOCK NO. 7	E5: KJ RN: RJ					TITLE SHEET
ATE: 2000 BY NO REVISION DATE 600' SCALE MAP NO 38 BLOCK NO 7	HK: RHV					
2000 - 1 10.	ATE: OCT.	BY N	NO.	REVISION	DATE	600' SCALE MAP NO. 38 BLOCK NO. 7

MILES PROPERTY

LOTS 1 THRU 4 AND

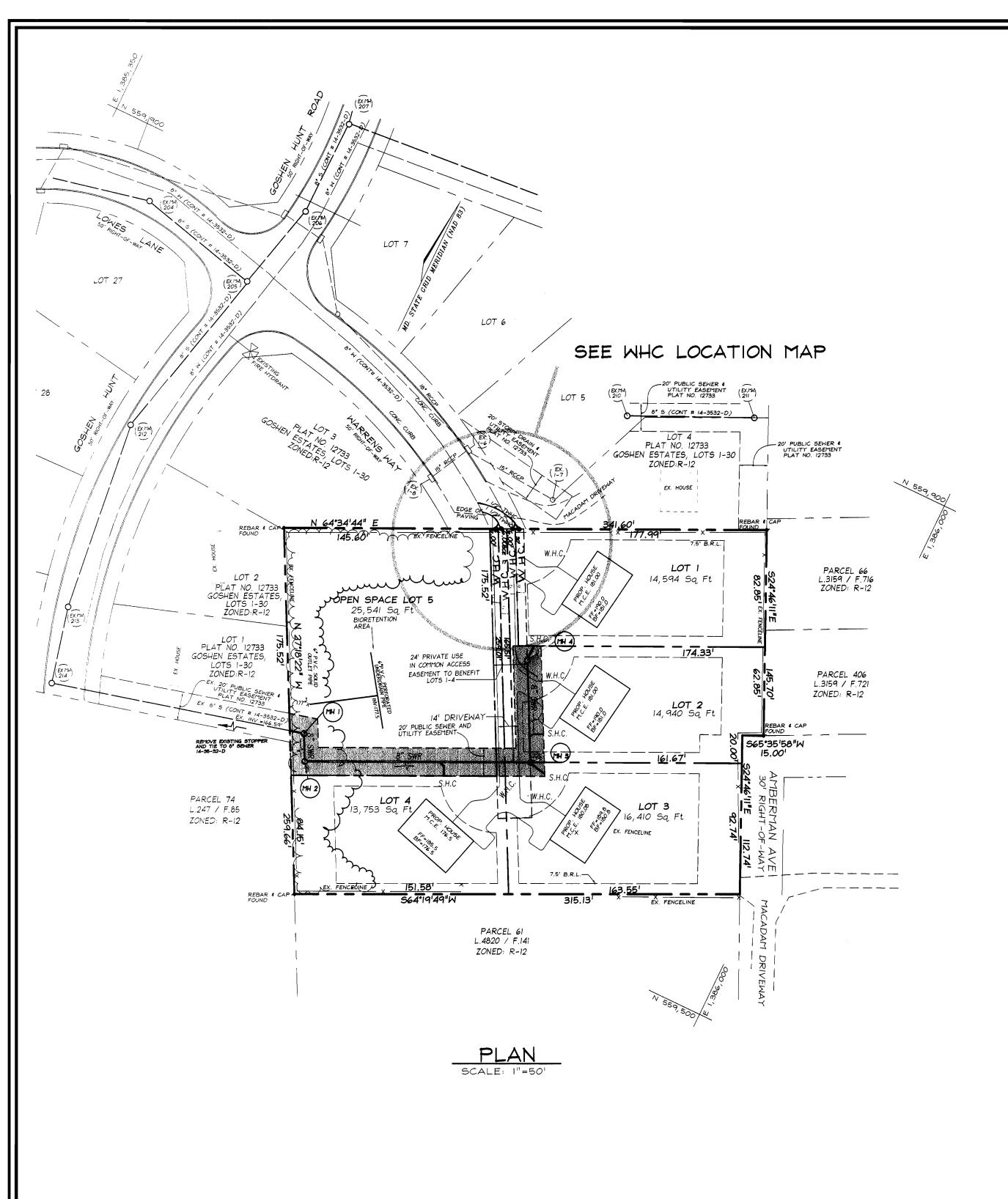
OPEN SPACE LOT 5

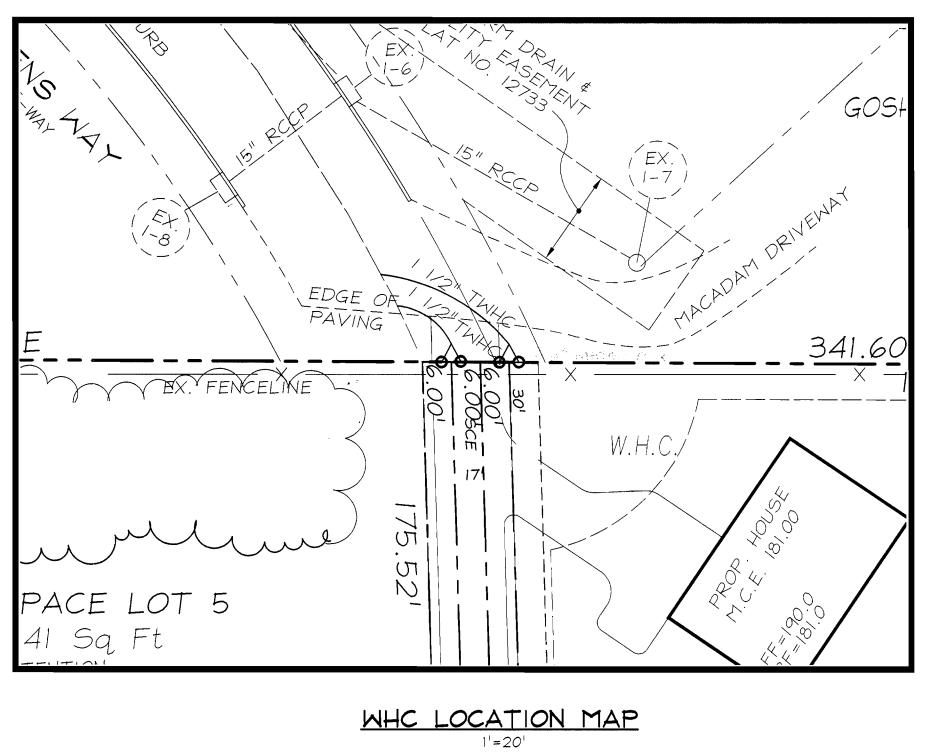
CONTRACT NO. 14-3910-D

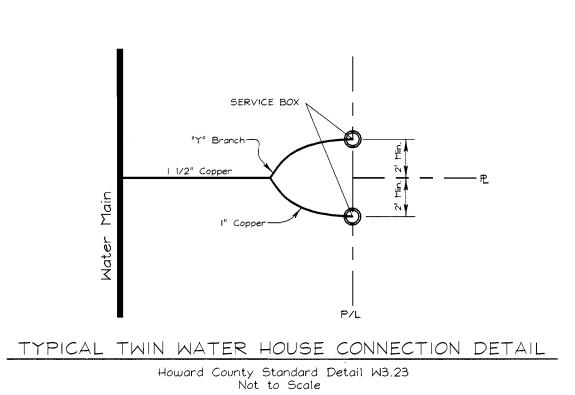
TAX MAP #38 PARCEL 61
IST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

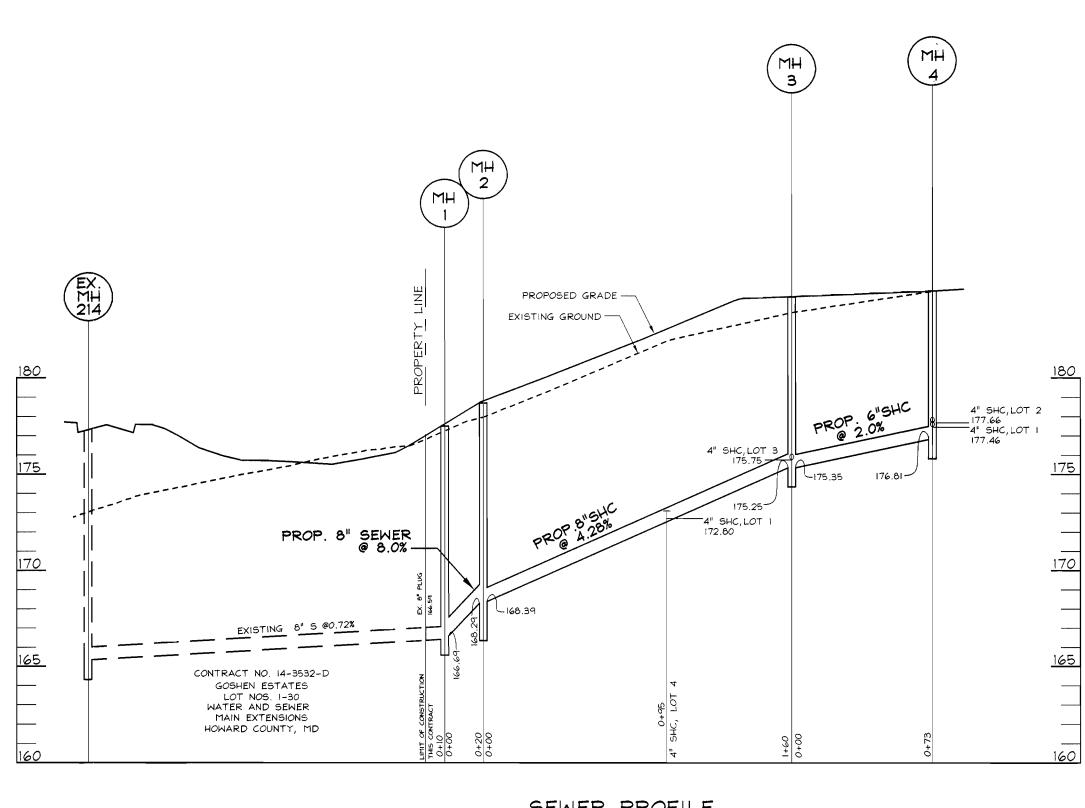
SHEET \_\_\_\_OF\_2

SHOWN









	SEWER CONNECTION TABULAT	TION
MANHOLE NO.	LOCATION	TOP ELEV.
MH-1	N 559558.3 E 1385661.5	177.50
MH-2	N 559540.7 E 1385670.5	178.70
MH-3	N 559609.2 E 1385814.7	184.20
MH-4	N 559673.7 E 1385 <b>7</b> 81.4	184.60

SEWER CONNECTION TABULATION							
LOT NO.	ELEV. @ MAIN	ELEV. @ LOT/R.O.W.	M.C.E.				
LOT-1	177.46	177.66	181.00				
LOT-2	177.66	177.86	181.00				
LOT-3	175.75	175.95	180.08				
LOT-4	172.80	173.00	176.50				

SEWER PROFILE

SCALE: HORIZONTAL - 1"=50"

VERTICAL - 1"=5"

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DEPARTMENT OF PLANNING \$ ZONING HOWARD COUNTY, MARYLAND

ASSOCIATES

ENGINEERS: SURVEYORS: PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043

Tel 410.461.5828 Fax 410.465.3966

ROBERT HUMAMENING.E. NO. 16

בר ב			
DES: RJ			
DRN: RJ			
CHK: RHV			
O = t			
DATE: 0ct. 2000	BY	NO.	REVISION

SEWER PLAN

DATE 600' SCALE MAP NO. 38 BLOCK NO. 7

MILES PROPERTY

LOTS 1 THRU 4 AND

OPEN SPACE LOT 5

CONTRACT NO. 14-3910-D

TAX MAP #38 PARCEL 61
IST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

AS SHOWN

LOT 5
4-3910-D
PARCEL 61
COUNTY, MARYLAND

AS SHOWN
SHEET
2 OF 2

SCALE

### GENERAL NOTES

- 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 CONTRACTORS EXPENSE.
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- 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.
- 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.
- 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 W WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
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STATE HIGHWAY ADMINISTRATION B.G. &E. CO. CONTRACTOR SERVICES B.G. &E CO. UNDER GROUND DAMAGE CONTROL MISS UTILITY

1-800-446-5266 531-5533 850-4620 291-4607 1-800-257-7777 549-4120

COLONIAL PIPELINE CO. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES

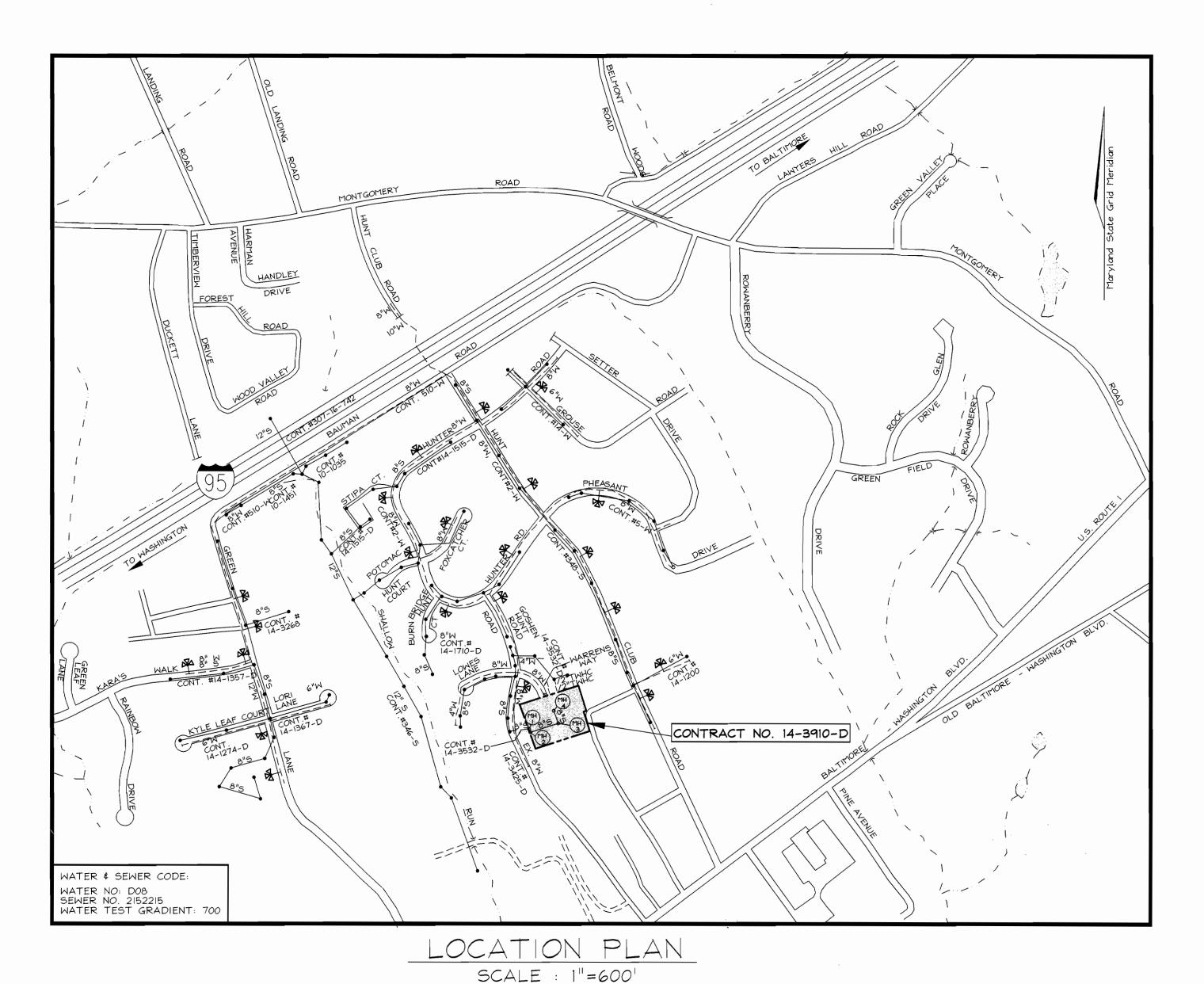
- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR
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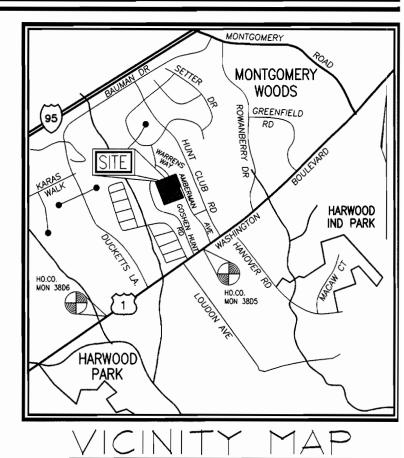
### PART II - SEWER

- I. ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- 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 OTHERWISE NOTED.
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- 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 NOTED ON THE DRAWINGS.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

### COMMERCIAL TYPE OF BUILDING: NO. OF LOTS/PARCELS NO. OF WATER HOUSE CONNECTIONS: NO. OF SEWER HOUSE CONNECTIONS: PATAPSCO DRAINAGE AREA: TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT; CITY OF BALTIMORE

### MILES PROPERTY PUBLIC WATER AND SEWER PLANS HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3910-D





SCALE: I"=2000'

HOWARD COUNTY GEODETIC CONTROL STATION NO. 38D5

N 558,378.575 E 1,386,524.157

ELEVATION: 193.718 STATION NO. 38D6

N 557155.459 E 1,384,992.261 ELEVATION: 175.222

HARRY EKLOF & ASSOC.

### ALLANITITIES

QUANTITIES							
NAME OF L	ITILITY CONTI	RACTOR :	-	-			
BURVEY AN	ND DRAFTING	DIVISION AS-B	UILT DAT	E :			
ITEMS	QUANTITIES		AS-BUILT				
	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER			
1 1/2" WHC	62 LF	36.3 L.F.	TYPEK	CERRO COPIER PRODUCTS NORTH EASTERN SUPPLY			
4" SHC	45 LF	74 C.F.	50R 35	NATIONAL PIPE AND PLASTICS INC. HARRY EKLOF & ASSOC.			
MANHOLE	4 EACH	4 EA	PRECAST	ATLANTIC CONCRETE PRODUCTS			
8" SEWER	263 LF	216 L.F.	50R35	NATIONAL PIPE & PLASTICS INC. HARRY EKLOF & ASSOC.			
I' WATER	20 LF	126,4 L.F.	TYPEK	READING TUBE NORTH EASTERN SUPLY			
METER BOX	4 EACH	4 EA.	PRECAST 24" DIA.	NAYER BROS, INC.			
G" SEWER	73 L.F.	736.F.	50R-35	NATIONAL PIPE & PLASTICS INC.			

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH F-00-137

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

Tel 410.461.5828 Fax 410.465.3966

WILLIAM OF MAN	
HARRIS - P. S. P.	E
	c
DEERT H. VOGEL, P.E. NO. 16193	D

13	DATE: 0CT. 2000	BY	NO	REVISION	DATE
		K.CI	I	ASBULT CONDITIONS ADDED TO PLAN	6/7/01
	CHK: RHV				
	-				
	DRN: RJ				
	DE5: K3				

TITLE SHEET

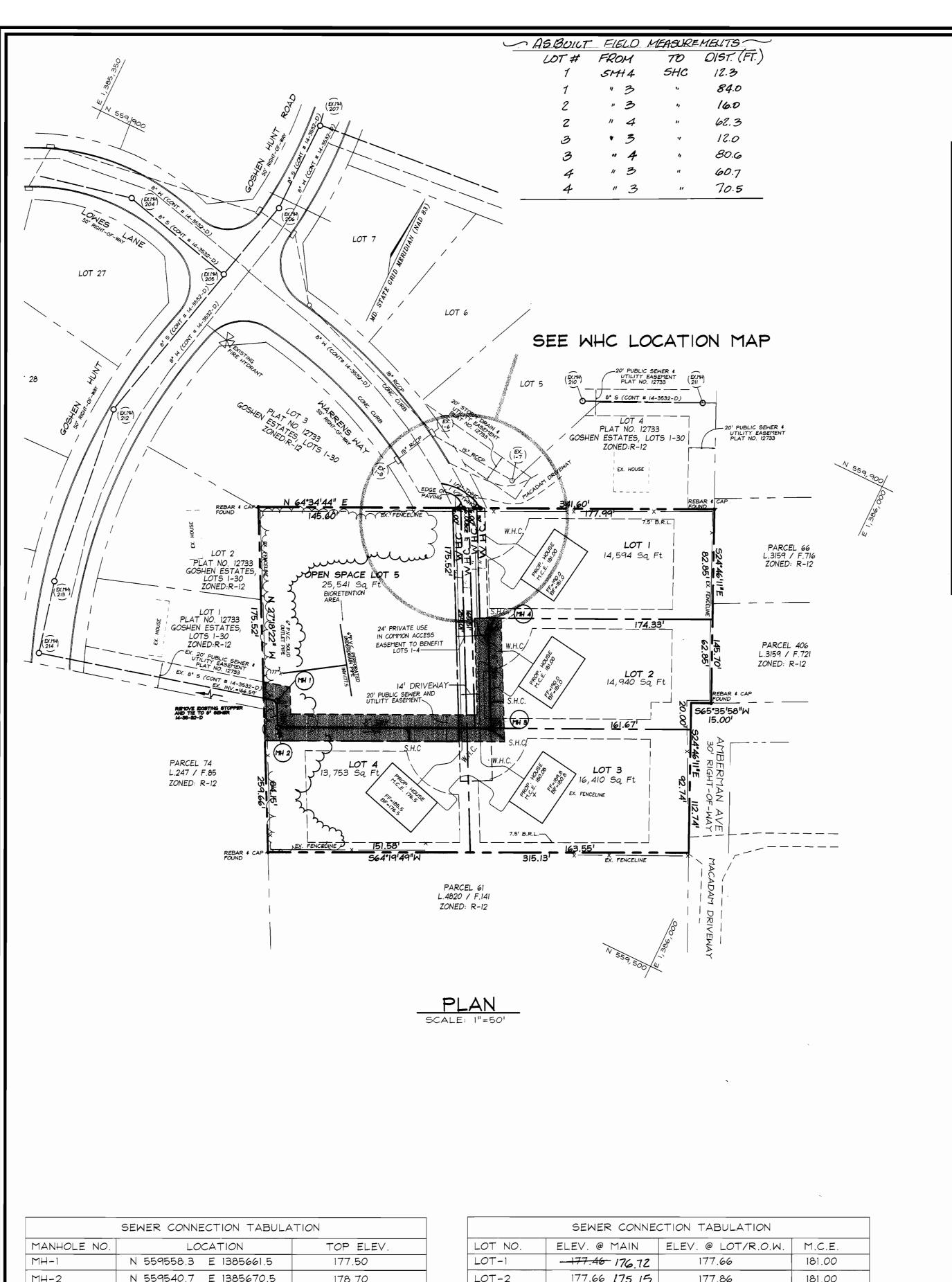
600' SCALE MAP NO. 38 BLOCK NO.

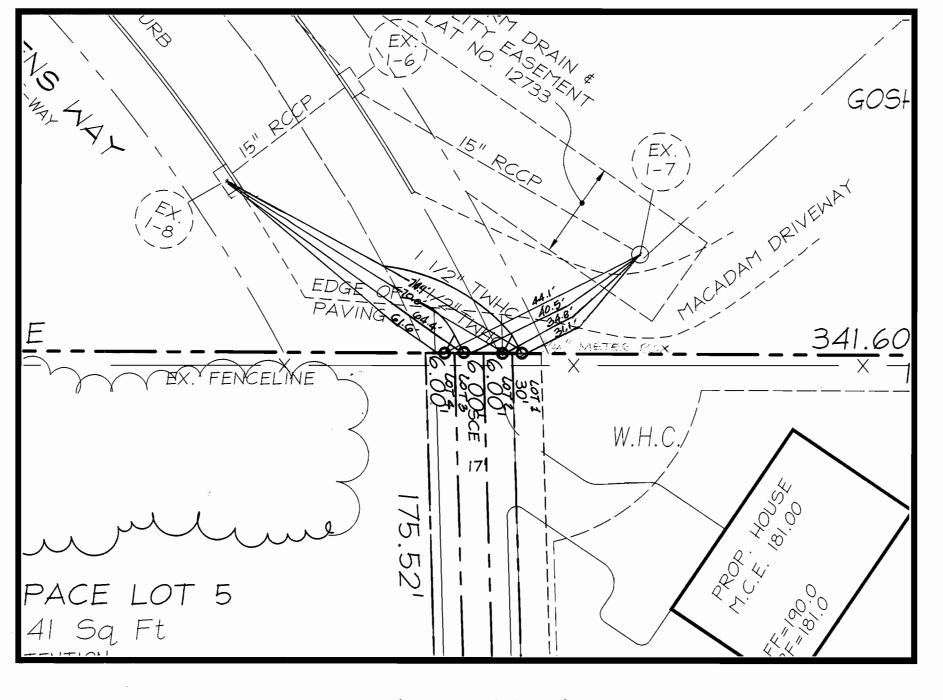
MILES PROPERTY LOTS 1 THRU 4 AND OPEN SPACE LOT 5 CONTRACT NO. 14-3910-D

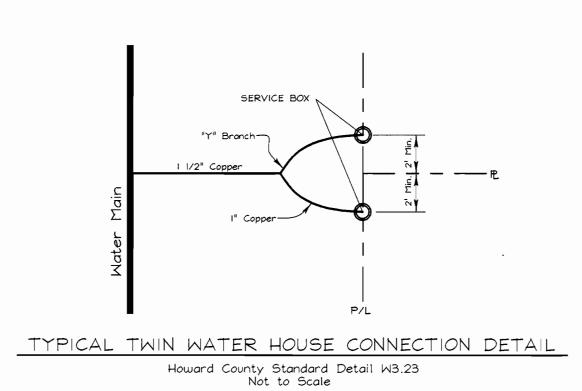
TAX MAP #38 PARCEL 6 HOWARD COUNTY, MARYLAND IST ELECTION DISTRICT

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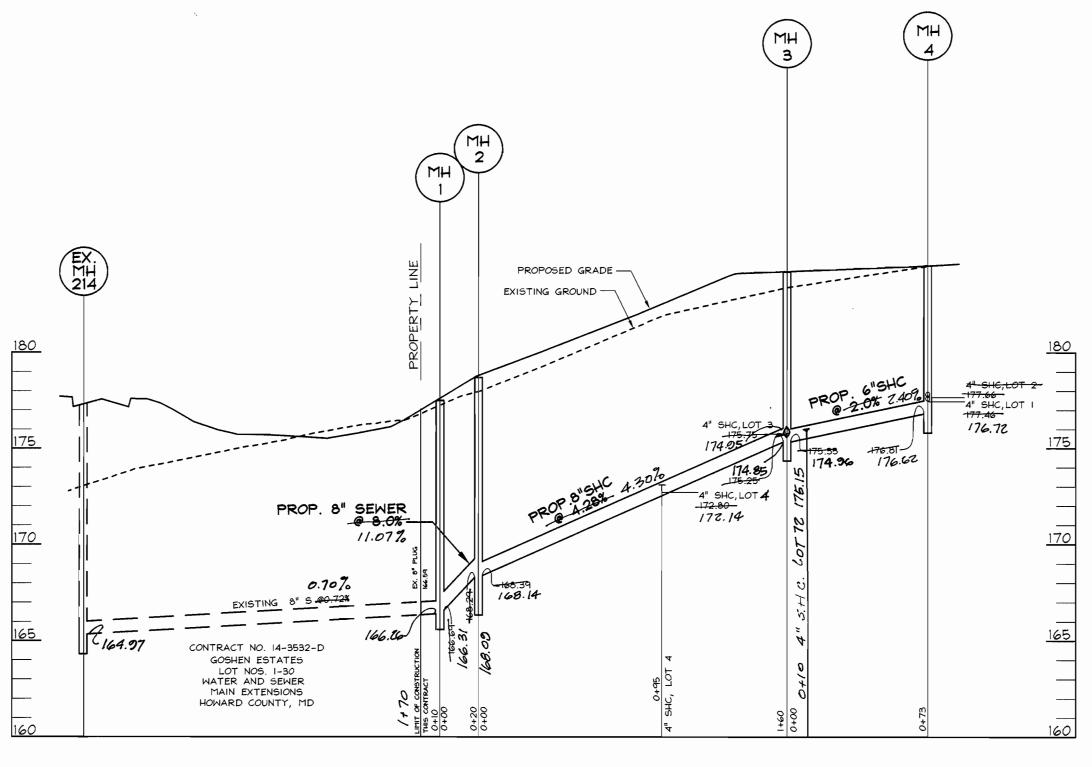
SHOW SHEET \_ OF\_







WHC LOCATION MAP



SEWER PROFILE SCALE : HORIZONTAL - 1"=50" VERTICAL - 1"=5"

	200, 1110.1	'0' ==='.
MH-1	N 559558.3 E 1385661.5	177.50
MH-2	N 559540.7 E 1385670.5	178.70
MH-3	N 559609.2 E 1385814.7	184.20
MH-4	N 559673.7 E 1385781.4	184.60

LOT NO.	ELEV. @ MAIN	ELEV. @ LOT/R.O.W.	M.C.E.				
LOT-1	<del>- 177.46</del> 176.72	177.66	181.00				
LOT-2	177.66 175.15	177.86	181.00				
LOT-3	175.75 <b>174.95</b>	175.95	180.08				
LOT-4	172.80 172.14	173.00	176.50				

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING \$ ZONING HOWARD COUNTY, MARYLAND

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043 Tel 410.461.5828 Fax 410.465.3966

	ol∞
ROBERT HUMANIMP.E.	NO. 1619:

	DES: RJ					
	DL3. 103					
	DRN: RJ					
)						
	CHK: RHV					
	Ont	K.C.I	1	AS BUILT COMDITIONS ADDED TO PLAN	6/7/01	
6193	DATE: Oct. 2000	BY	NO.	REVISION	DATE	60

SEWER PLAN

600' SCALE MAP NO.<u>38</u> BLOCK NO.<u>7</u>

MILES PROPERTY

LOTS 1 THRU 4 AND OPEN SPACE LOT 5 CONTRACT NO. 14-3910-D

PARCEL 61 TAX MAP #38 HOWARD COUNTY, MARYLAND IST ELECTION DISTRICT

SHEET 2 of 2

SCALE

AS

SHOWN