QUANTITIES

QUANTITIES

216LF

305 LF

79

498 LF

67LF

223 LF

1

- 1

305 LF

4

ı

- 1

166 LF

502 LF

168 LF

5. BUILDING DATA: MAXIMUM BUILDING HEIGHT 34' FOR PRIMARY STRUCTURE, 15' FOR ACCESSORY STRUCTURE REQUIRED.

8. DEED REFERENCE: 9. RELATED FILES FOR THIS SITE: F-06-125, SDP-06-077

10. ELECTION DISTRICT NO. 6TH, HOWARD COUNTY MARYLAND

13. TOTAL AREA OF ROAD RIGHT OF WAY TO BE RECORDED 0.00 ACRES

NAME OF UTILITY CONTRACTOR : UTILITIES UNLIMITED

6" WATER

8" VALVES

8"x8" TEES

8"x6" FHT

8" WATER

8'x6" REDUCER

I" WATER METER BOXES

12"x8" T5#V

FIRE HYDRANT- 5.01

SEWER MANHOLE

1 1/2" WHC

8" SEWER

4" SHC

8" SLEEVE

AS-BUILT DATE : JULY 2007

SURVEY AND DRAFTING DIVISION

1. TOTAL AREA OF SITE: 2.59 ACRES

SITE ANALYSIS

3, EXISTING USE: VACANT

. PARKING DATA: N/A

4. PROPOSED USE: RESIDENTIAL

7. IMPERVIOUS AREA: 0.55 ACRES

12. AREA OF DISTURBANCE: 2,27

11. TAX MAP: 36, GRID:009, PARCEL 120

2. ZONING: R-20

AS-BUILT

MUELLER CO.

MUELLER CO.

MUELLER CO.

MANUFACTURER/SUPPLIER

GRIFFIN PIPE/H. D. SUPPLY

GRIFFIN PIPE/H. D. SUPPLY

BINGHAM TAYLOR/H. D. SUPPLY

FREDERICK PRECAST CONCRETE

NORTH AMERICAN/H.D. SUPPLY

NORTH AMERICAN/H. D. SUPPLY

MUELLER CO./H.D. SUPPLY

TYLER/H.D. SUPPLY

FORD/H. D. SUPPLY

CENRO/H.D. SUPPLY

MUELLER CO.

WATER & SEWER EXTENSIONS OWEN WOODS, LOTS 1-4

PARCEL 120 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4379-D

BENCHMARK HORIZONTAL DATUM: NAD 83/91 VERTICAL DATUM: NAVD88 HOWARD COUNTY MONUMENT: 36BB NORTHING: 561501.227 EASTING: 1356203.67 HOWARD COUNTY MONUMENT: 36DA NORTHING: 560849.356 EASTING: 1350037.49 OWEN WOODS, LOTS 1-4 -PROP. 8" SEWER -PROP. 12" WATER HILLCROFT EXECUTIVE MARYLAND VEHICLE **EMISSIONS** TYPE OF BUILDINGS: RESIDENTIAL NO. OF LOTS / PARCELS: 4 WATER CODE: E 09 DRAINAGE AREA: 2.59 ACRES SEWER CODE: 5531200 COUNTY USE TREATMENT PLANT: LITTLE PATUXENT VICINITY MAP WATER NO. NUMBER OF W.H.C.: 4 SCALE: 1"=600" SEWER NO. NUMBER OF S.H.C.: 4 TEST GRADIENT: 700 ZONE: R-20

DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

GERERAL NOTES:

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE
- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MAY 2005 BY christopher consultants, Itd.
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS:
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 36 DA AND NO. 36BB. ALL VERTICAL CONTROLS ARE BASED ON NAVO '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE christopher consultants
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0' MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIED TO SCHEDULE THE BRACING OF THE POLES.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWING, 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. 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
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STATING WORK SHOWN ON THESE PLANS: AT&T1-800-252-1133 BGE (CONSTRUCTION SERVICES) BGE (EMERGENCY)......410-685-1400 BUREAU OF UTILITIES410-313-49 COLONIAL PIPELINE CO.410-795-13901-800-257-7777
- 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
- 10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 / LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114 (A) OF THE HOWARD COUNTY

PART II WATER

- 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS SHALL HAVE MINIMUM OF 3'-6' OF COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- · ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 5. 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 SECTION 1005 OF THE
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-D" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 3. FORCE MAINS SHALL BE D.I.P. ONLY.
- 4. 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 COVER. Standard Detail G5.52. Where watertight manhole frames and covers are used, set top of Frame 1' - 6' above finished grade unless otherwise noted on the drawings.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

DATE: JULY 2007

6th ELECTION DISTRICT

VILLAGE OF OWEN BROWN

> ADC# 20201152 VICINITY MAP SCALE: 1"=2000" BENCHMARK

HORIZONTAL: MARYLAND NAD83 (ADJ 1991) VERTICAL: NAVD88 GEODETIC SURVEY CONTROL: 36DE NORTHING: 559516.00 EASTING: 1350409.51 ELEVATION: 383,44

LOCATION: SEBRING DRIVE 0.3MI NORTH OF OWEN BROWN RD. GEODETIC SURVEY CONTROL: 36DA NORTHING: 560849.356

EASTING: 1350037.49 ELEVATION: 363.703 LOCATION: CORNER HICKORY RIDGE RD. \$ BROKEN LAND PKWY.

STAMPED DISC SET ON 3' DEEP COLUMN OF CONCRETE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-06-077

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS

TECHNICAL REQUIREMENTS. THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND



christopher consultants 72 columbia galaway dise (suite 100) - columbia, md 21046-2990 410.872.8690 · metro 301.881.0148 · fax 410.872.8693



	DES:	АН					
"Himmun"		741					
	DRN:	ADL.					
	CHK:						
	DATE: DEC. 2005		BY	NO.	REVISION	DATE	300 SCAI

TITLE SHEET

BLOCK NO.

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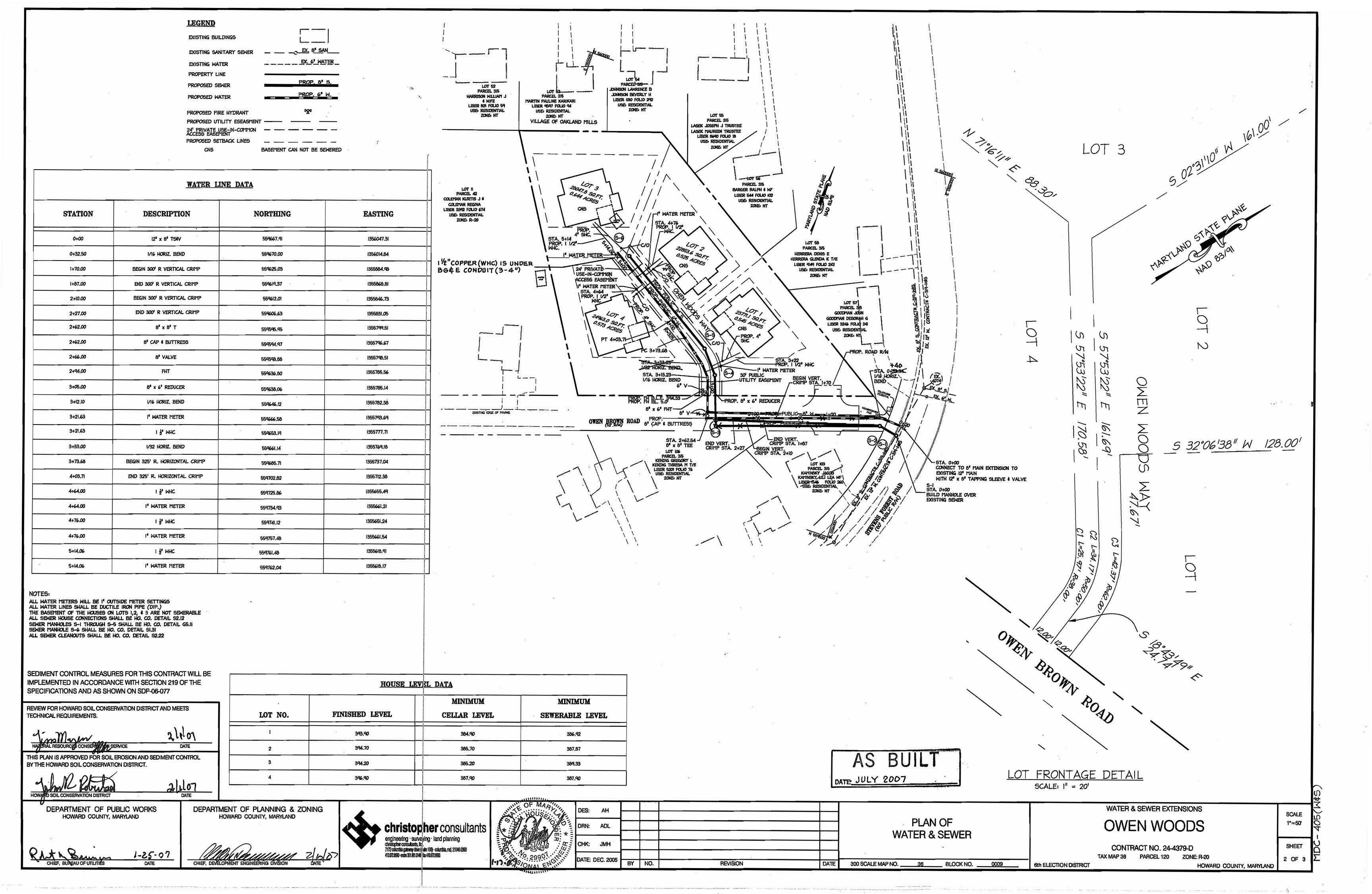
WATER & SEWER EXTENSIONS PARCEL 120

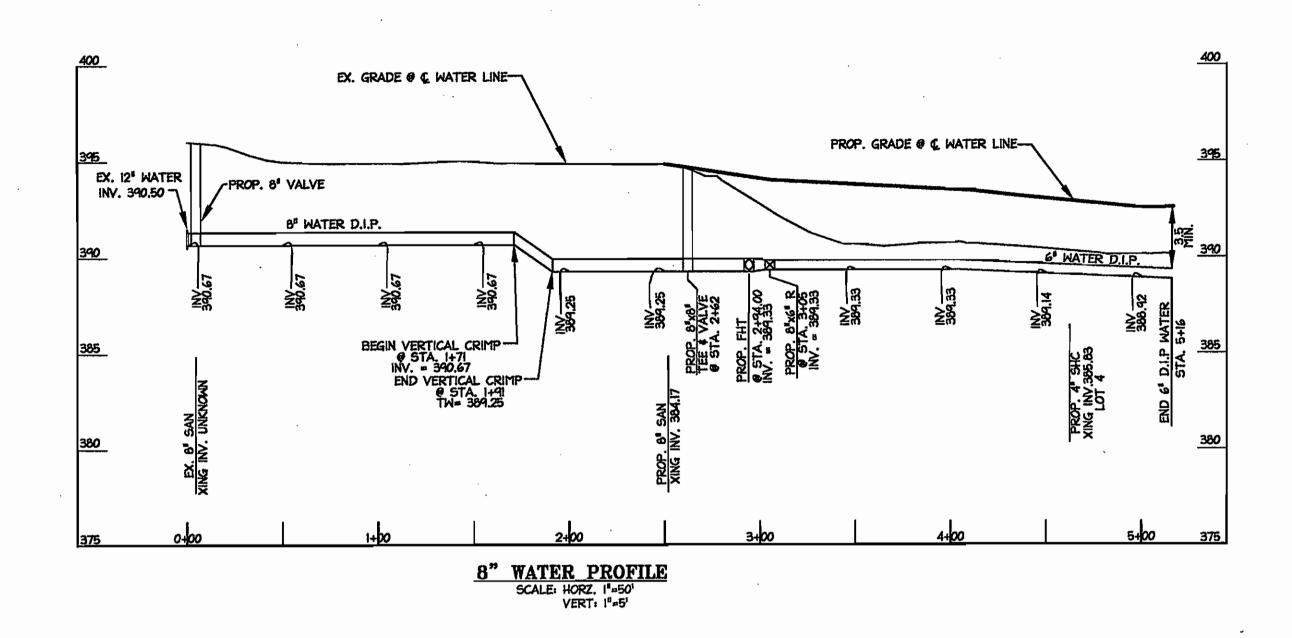
CONTRACT NO. 24-4379-D

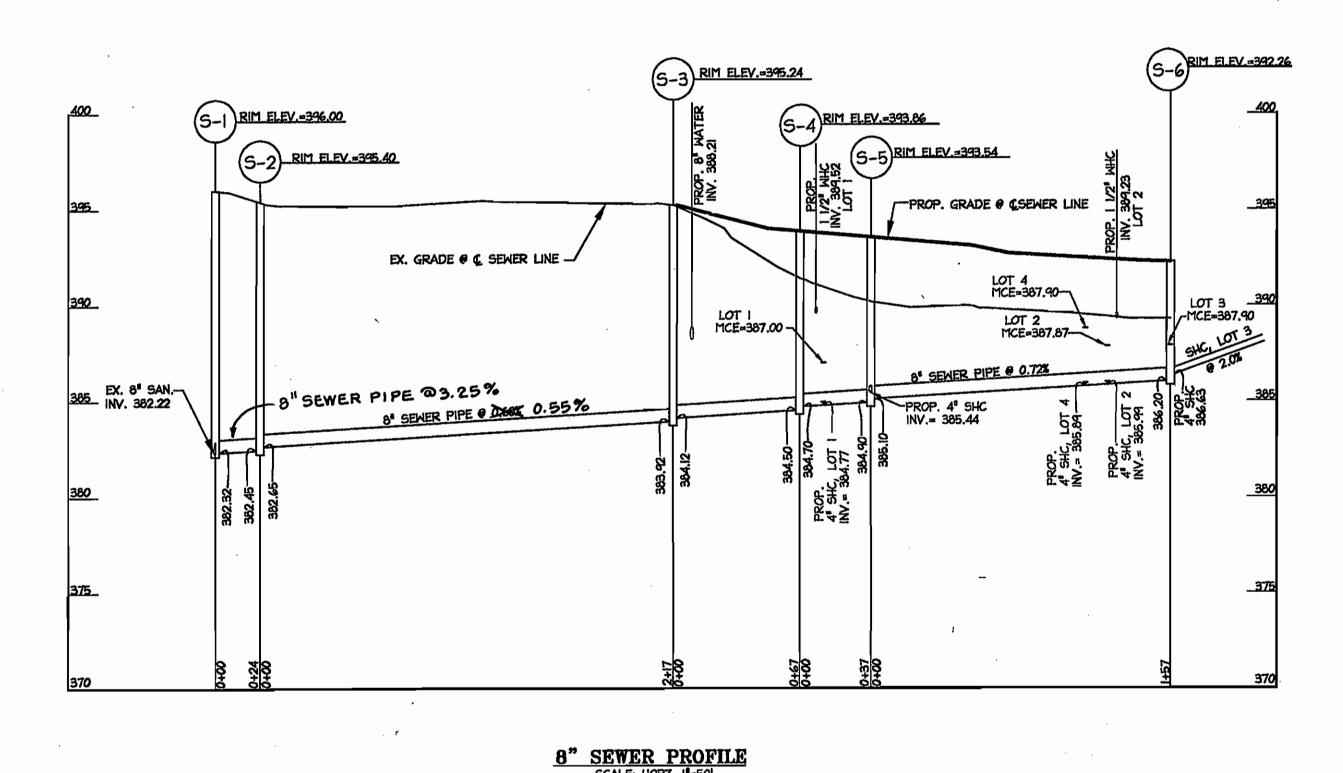
SHEET 1 OF 3

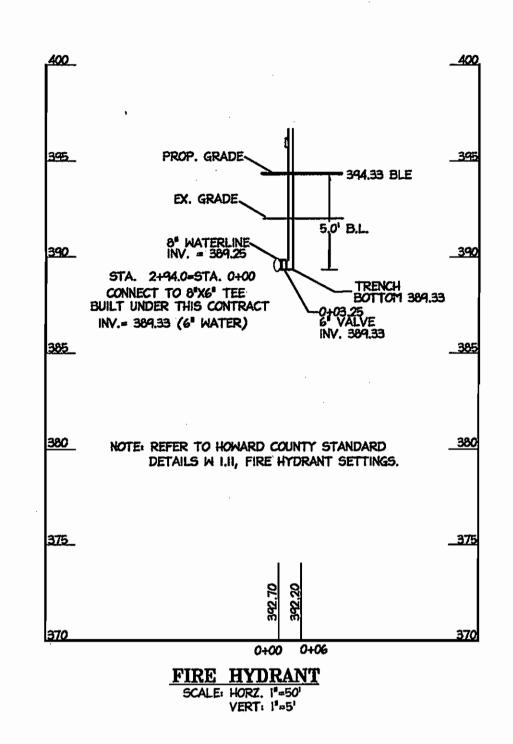
TAX MAP 34 PARCEL 120 ZONE: R-20 HOWARD COUNTY, MARYLAND

AS SHOWN









AS-BUILT WATER AND SEWER HOUSE CONNECTIONS

FROM	TO	DISTANCE	REMARKS
5M14	SHC	22.01	
9MH 5	5HC	20.0	_
LOT# WHC	SHC	8,	
5MH 4	WHC	151	METER VAULT
SM1 5	WHC	28.6	AT PROPERTY
LOT#I SHC	WHC	8,	LINE (1")
SMO	SHC	34.6'	
LOT#4 SHC	SHC	40.41	
LOT#2 WHC	SHC	7'	
•			
SMI Ø	WHO	28'	METER VAULT
LOT#2 SHC	WHC	71	AT PROPERTY
LOT#4 WHC	Y Y	32.6	LINE(I")
SM 0	SHC	17.0'	
LOT#2 WHC	SHC	45.61	
LOT#3 WHC	SHC	58.0	
		,	
5M 0	WHC	171	METER VAULT
LOT#2 WHC	WHC	44'	AT PROPERTY
LOT#4 WHC	WHC	52.61	LINE (I")
SM Ø	SHC	501	
LOT#3 SHC	SHC	63.61	
LOT#2 SHC	SHC	40.41	·
5M1 6	WHC	441	METER VAULT
LOT#3 WHC	WHC	32.60	AT PROPERTY
LOT#4 SHC	WHC	6	LINE (I")
	SMH 4 SMH 5 LOT#I WHC SMH 4 SMH 5 LOT#I SHC SMH 6 LOT#2 WHC LOT#2 SHC LOT#2 WHC LOT#3 WHC SMH 6 LOT#2 SHC LOT#4 WHC	SMH 4 SHC SMH 5 SHC LOT#1 WHC SHC SMH 4 WHC SMH 5 WHC LOT#1 SHC LOT#1 SHC WHC SMH Ø SHC LOT#2 WHC SHC LOT#2 SHC LOT#2 SHC LOT#2 WHC LOT#2 WHC SMH Ø SHC LOT#2 WHC LOT#4 WHC SMH Ø SHC LOT#4 WHC SMH Ø SHC LOT#3 WHC SHC LOT#3 WHC SHC LOT#3 WHC SHC LOT#4 WHC SMH Ø SHC LOT#2 SHC SHC SMH Ø SHC LOT#3 WHC SHC LOT#3 WHC SHC LOT#3 SHC SHC LOT#3 SHC SHC LOT#3 SHC SHC SMH Ø WHC LOT#3 WHC SHC SMH Ø WHC	SMH 4 SHC 22.0¹ SMH 5 SHC 20.0¹ LOT#1 WHC SHC 8¹ SMH 4 WHC 15¹ SMH 5 WHC 28.0¹ LOT#1 SHC WHC 8¹ SMH 0 SHC 34.0¹ LOT#4 SHC SHC 40.4¹ LOT#2 WHC SHC 7¹ SMH 0 WHC 28¹ LOT#2 SHC WHC 32.0¹ SMH 0 SHC 17.0¹ LOT#3 WHC SHC 45.0¹ LOT#2 WHC WHC 44¹ LOT#4 WHC WHC 44¹ LOT#3 SHC SHC 50¹ LOT#3 SHC SHC 40.4¹ LOT#2 SHC SHC 40.4¹ SMH 0 WHC 44¹ LOT#3 SHC SHC 40.4¹ LOT#3 SHC SHC 40.4¹ LOT#3 WHC WHC 44¹ LOT#3 WHC WHC 32.0¹

AS - BUILT WATER VALVES

VALVE	FROM	TO	DISTANCE	REMARKS
6"V(FH)	SMH 4	VALVE	251	
2+94	8"V 2+62	VALVE	27'	
	FH 2+94	VALVE	51	
8"VALYE	SMI 4	VALVE	49'	
2+62	FH 2+94	VALVE	281	
	5MH 3	VALVE	17'	
8"T5&V	5MH I	'	12.5'	
0+00	SMI 2		301	
	BGEE BOX		28'	RT. FRONT CORN

DATE JULY 2007

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND



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STITUTE STITUTE	HOUSE	N. A. A.
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		BY	NO.	REVISION	DATE	300 SCALE MAP NO36 BLOCK NO0009				

WATER & SEWER **OWEN WOODS**

1"=50" CONTRACT NO. 24-4379-D TAX MAP 36 PARCEL 120 ZONE: R-20 6th ELECTION DISTRICT

SHEET 3 OF 3 HOWARD COUNTY, MARYLAND