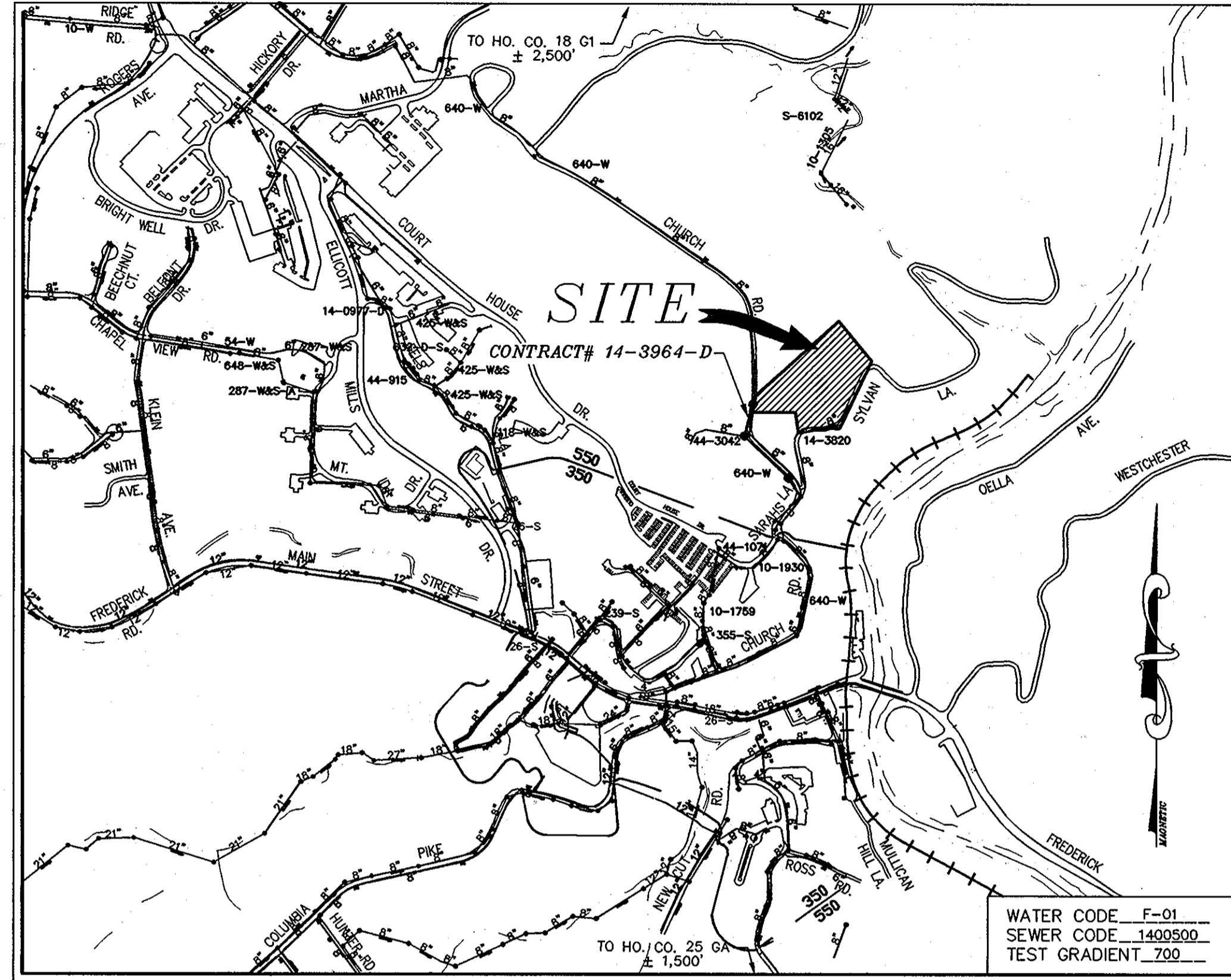


**QUANTITY TABLE**

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH (HO. CO. STD.G-5.01)	6	6 E.A.	CONC. STD. 4'	CAPITOL FOOD/BELAIR RD.SPLY
8" SEWER MAIN	660 L.F.	660 L.F.	PVC SDR 35	JM MFG./BELAIR RD.SUPPLY
6" SEWER HOUSE CONNECTION	110 L.F.	80 L.F.	PVC SDR 35	JM MFG./BELAIR RD.SUPPLY
# TWIN SEWER HOUSE CONNECTIONS	2 EACH	2 E.A.	PVC SDR 35	JM MFG./BELAIR RD.SUPPLY
1" WATER HOUSE CONNECTION	80 L.F.	82 L.F.	COPPER	READING COMPANY
# 1" WHC	4 EACH	3 E.A.	COPPER	READING COMPANY
NAME OF UTILITY CONTRACTOR: CONSOLIDATED CONSTRUCTION SERVICES (CCS)				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: OCTOBER 2006/JANUARY 2010				



**VICINITY MAP**  
SCALE: 1"=600'

TYPE OF BUILDING	SFD
No. OF UNITS	4
No. OF WATER HOUSE CONNECTION	4
No. OF SEWER HOUSE CONNECTIONS	4
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO WASTEWATER TREATMENT PLANT

**EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER GP-03-18**

**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 NAD 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 

AT&T	1-800-252-1133
B& E CO. CONTRACTOR SERVICES	(410) 530-4620
B& E CO. UNDERGROUND DAMAGE CONTROL	(410) 787-8088
BUREAU OF UTILITIES	(410) 313-4900
COLONIAL PIPELINE CO.	(410) 795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	(410) 531-5533
VERIZON	1-800-743-0033/410-224-9210
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY 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(c) OF HOWARD COUNTY CODE.
- 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 STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 05.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- ALL SEWER HOUSE CONNECTIONS TO BE 4" IN SIZE.
- ALL WATER HOUSE CONNECTIONS TO BE 1" IN SIZE UNLESS OTHERWISE NOTED.
- ALL HOUSES WILL HAVE SERVICE TO LOWEST FLOOR UNLESS OTHERWISE NOTED.
- THE EXISTING WELL AND SEPTIC SERVICING EXISTING HOUSE(S) ARE TO BE ABANDONED.
- COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.
- CORE AND CHANNEL EXISTING MH # 4.

**CONTRACT NO.: 14-3964-D**

**DEVINE PROPERTY, LOTS 1 THRU 4  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS**

**INDEX OF DRAWINGS**

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER AND SEWER PLAN
3	WATER & SEWER PROFILES

**AS BUILT**  
DATE: OCT. 2006/JAN. 2010

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERFORM ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 11/9/02 DATE  
DEVELOPER'S SIGNATURE  
Dennis R. Rauer  
DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 10/9/02 DATE  
ENGINEER'S SIGNATURE  
JOHN B. MILDENBERG  
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

*[Signature]* 10/23/02 DATE  
USDA NATURAL RESOURCES CONSERVATION SERVICE

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

*[Signature]* 10/23/02 DATE  
HOWARD SCD

PLAN REFERENCE NUMBERS  
F-01-104

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 10-21-02 DATE  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]* 10/21/02 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0298 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



engineering	M.T.				
illustration	M.T.				
approval					
project	00050				
date	OCT 2002	BY	NO.	REVISION	DATE

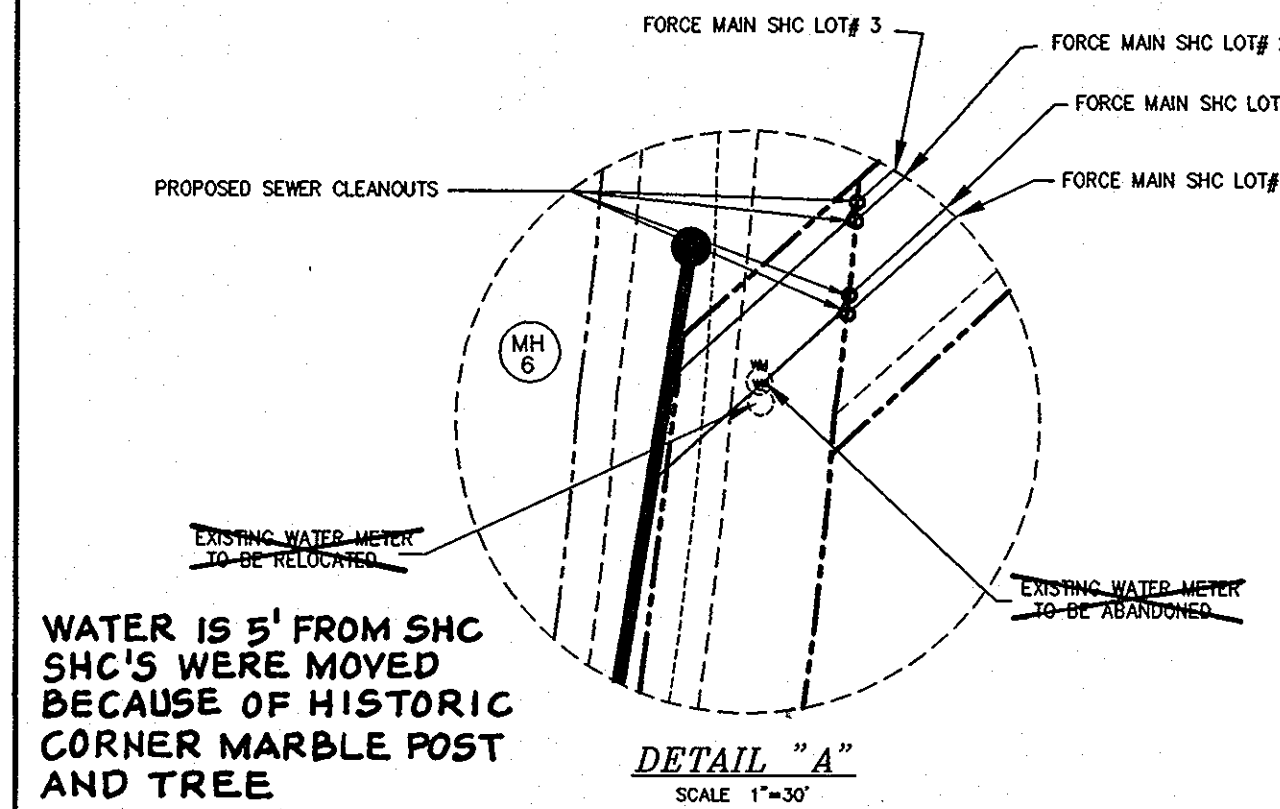
**TITLE SHEET**

600' SCALE MAP NO. 25 BLOCK NO. 8

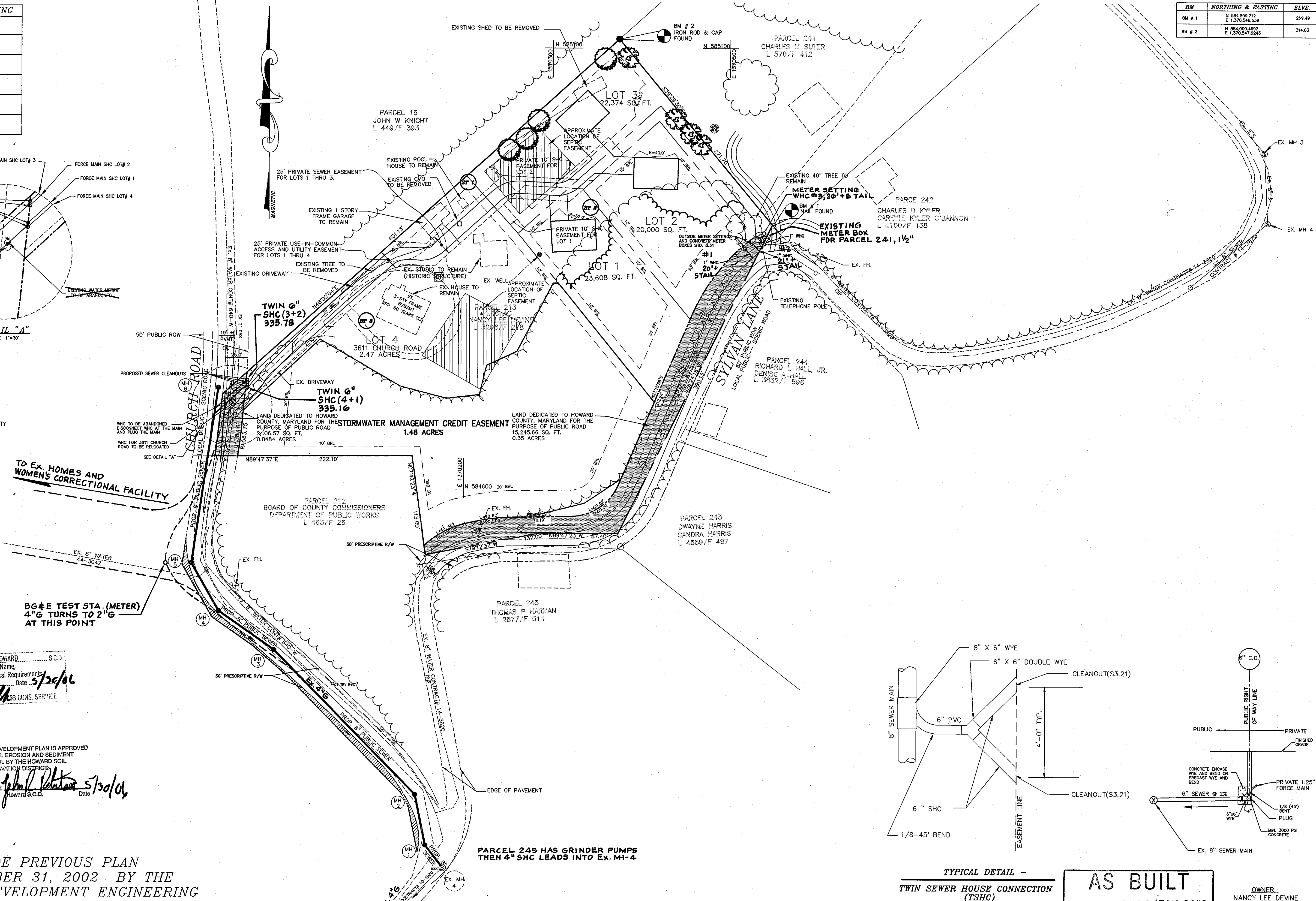
**DEVINE PROPERTY**  
LOTS 1 THRU 4  
CONTRACT NO.: 14-3964-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

MH	NORTHING & EASTING
MH# 1	N: 584198.139 E: 1370157.539
MH# 2	N: 584255.379 E: 1370146.028
MH# 3	N: 584418.736 E: 1369986.587
MH# 4	N: 584462.763 E: 1369923.953
MH# 5	N: 584517.097 E: 1369893.268
MH# 6	N: 584715.408 E: 1369923.229

BM	NORTHING & EASTING	ELVE.
BM # 1	N 584,899.712 E 1,370,545.539	269.49
BM # 2	N 584,900.497 E 1,370,547.624	314.63



**LEGEND:**

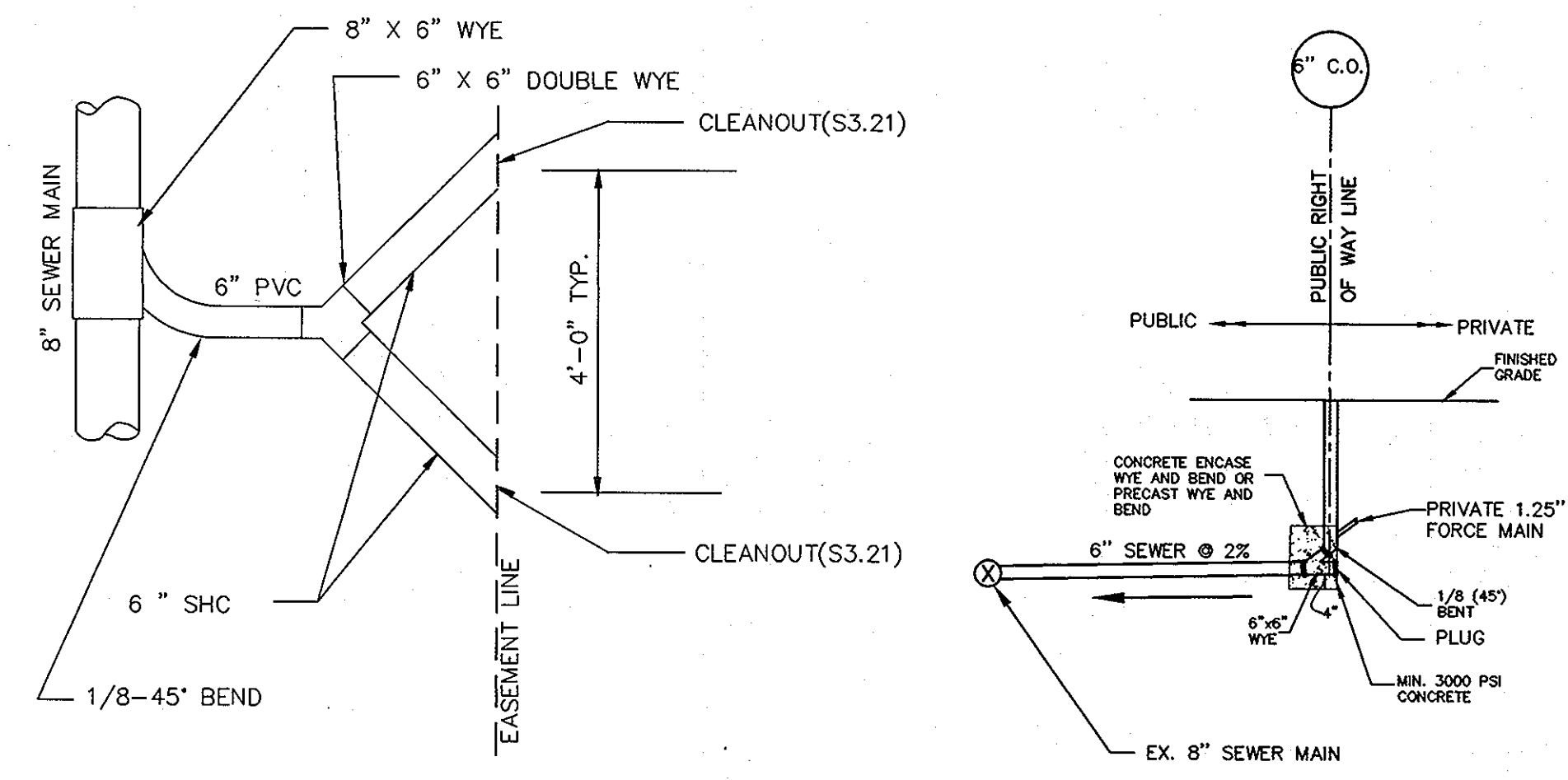


Reviewed for HOWARD S.C.D. Name: Jim M... Date: 5/30/06  
Signature: [Signature]  
NATURAL RESOURCES CONSULTING SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Approved: [Signature] Date: 5/30/06  
HOWARD S.C.D.

**NOTE:**  
SHEET SUPERSEDE PREVIOUS PLAN SIGNED ON OCTOBER 31, 2002 BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION.

*GP-03-18 - Sediment Control*



**AS BUILT**  
DATE: OCT. 2006/JAN. 2010

OWNER: NANCY LEE DEVINE, 3611 CHURCH ROAD, ELLICOTT CITY, MD 21043

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Ruth Bruner 5-18-06  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
[Signature] 5/31/06  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0286 Ball (301) 621-5521 Wash. (410) 997-0288 Fax

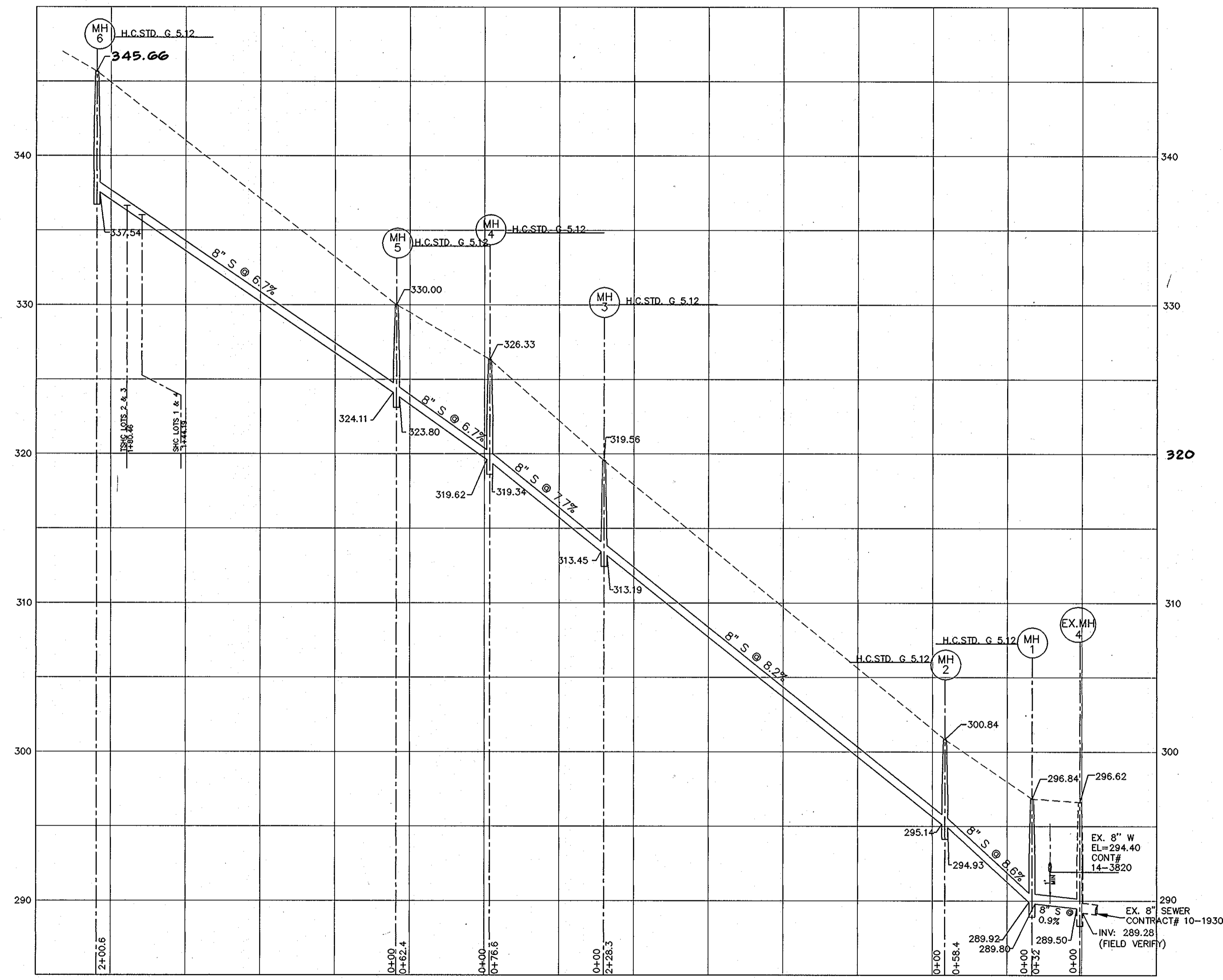
engineering  
illustration M.T.  
approval  
project 00050  
date MAY 2006

BY	NO.	REVISION	DATE

**WATER AND SEWER PLAN**  
600' SCALE MAP NO. 25 BLOCK NO. 8

**DEVINE PROPERTY**  
LOTS 1 THRU 4  
CONTRACT# 14-3964-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

scale 1"=50'  
2 OF 3



**8" SEWER PROFILE (CHURCH ROAD)**

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

**NOTE:**  
SHEET SUPERSEDE PREVIOUS PLAN  
SIGNED ON OCTOBER 31, 2002 BY THE  
CHIEF OF THE DEVELOPMENT ENGINEERING  
DIVISION.

**AS BUILT**  
DATE: OCT. 2006/JAN. 2010

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*R. H. Beaman* 5-18-06  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*[Signature]* 5/3/06  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 987-0286 Ball. (301) 621-5521 Wash. (410) 987-0288 Fax.



engineering									
illustration	M.T.								
approval									
project	00050								
date	MAY 2006	BY	NO.		REVISION		DATE		

**SEWER PROFILE**

600' SCALE MAP NO. 25 BLOCK NO. 8

**DEVINE PROPERTY**  
LOTS 1 THRU 4  
CONTRACT# 14-3964-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

scale  
1"=50'  
**3 OF 3**