

**QUANTITY TABLE**

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" x 8" TEE & 8" VALVE	1 EACH			
8" WATER MAIN	57' L.F.			
6" WATER MAIN	339 L.F.			
1-1/2" WATER HOUSE CONNECTION	58 L.F.			
# 1-1/2" WATER HOUSE CONNECTIONS	4 EACH			
6" CAP & BUTTRESS	1 EACH			
8" x 6" FHT & 6" VALVE	1 EACH			
6" FIRE HYDRANT	1 EACH			
1/16 HB	1 EACH			
1/32 HB	1 EACH			
8" SEWER MAIN	578 L.F.			
4" SEWER HOUSE CONNECTION	70 L.F.			
# 4" SEWER HOUSE CONNECTIONS	4 EACH			
# 4" STANDARD PRECAST MANHOLES G-5.12	2 EACH			
8"x6" REDUCER	1 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				

**WATER / SEWER MAIN TABULATION CHART**

APPURTENANCE	NORTHING	EASTING
MH 3	593,588.66	1,356,349.71
MH 4	593,610.24	1,356,760.78
8"x8" TS&V	593,595.94	1,356,357.48
8" 1/16 HB	593,598.53	1,356,361.65
8" 1/32 HB	593,596.97	1,356,358.74
8"x6" FHT&V	593,601.44	1,356,402.42
6" FIRE HYDRANT	593,606.45	1,356,402.16
8" CAP AND BUTTRESS	593,619.79	1,356,751.87

**ADDRESSES AFFECTED BY WATER OUTAGE**

PARCEL	ADDRESS
TAX MAP 17 PARCEL 61 LOT 1	2001 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 61 LOT 2	2011 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 65 LOT 4	2700 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 65 LOT 3	2704 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 65 LOT 2	2708 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 65 LOT 1	2714 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 66	2718 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 117	2722 OLD SAINT JOHNS LANE
TAX MAP 17 PARCEL 67	2730 OLD SAINT JOHNS LANE

**EROSION AND SEDIMENT CONTROL PROVIDED UNDER F-08-119**

**OWNER/DEVELOPER**

R. JACOB HIKMAT  
6800 DEERPATH ROAD, STE 150  
ELKRIDGE, MD 21075

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 PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S SIGNATURE: *[Signature]* DATE: 3/17/10  
R. JACOB HIKMAT  
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.

ENGINEER'S SIGNATURE: *[Signature]* DATE: 3/17/10  
R. JACOB HIKMAT  
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND METS TECHNICAL REQUIREMENTS.

USDA NATURAL RESOURCES CONSERVATION SERVICE

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

HOWARD SCD: *[Signature]* DATE: 4/6/10

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
6800 Deerpath Road, Suite 150, Elkridge, MD 21075  
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



engineering	RJH				
illustration	MES				
approval	RJH				
project	07-021				
date	MAR 2010	BY	NO.	REVISION	DATE

**TITLE SHEET**

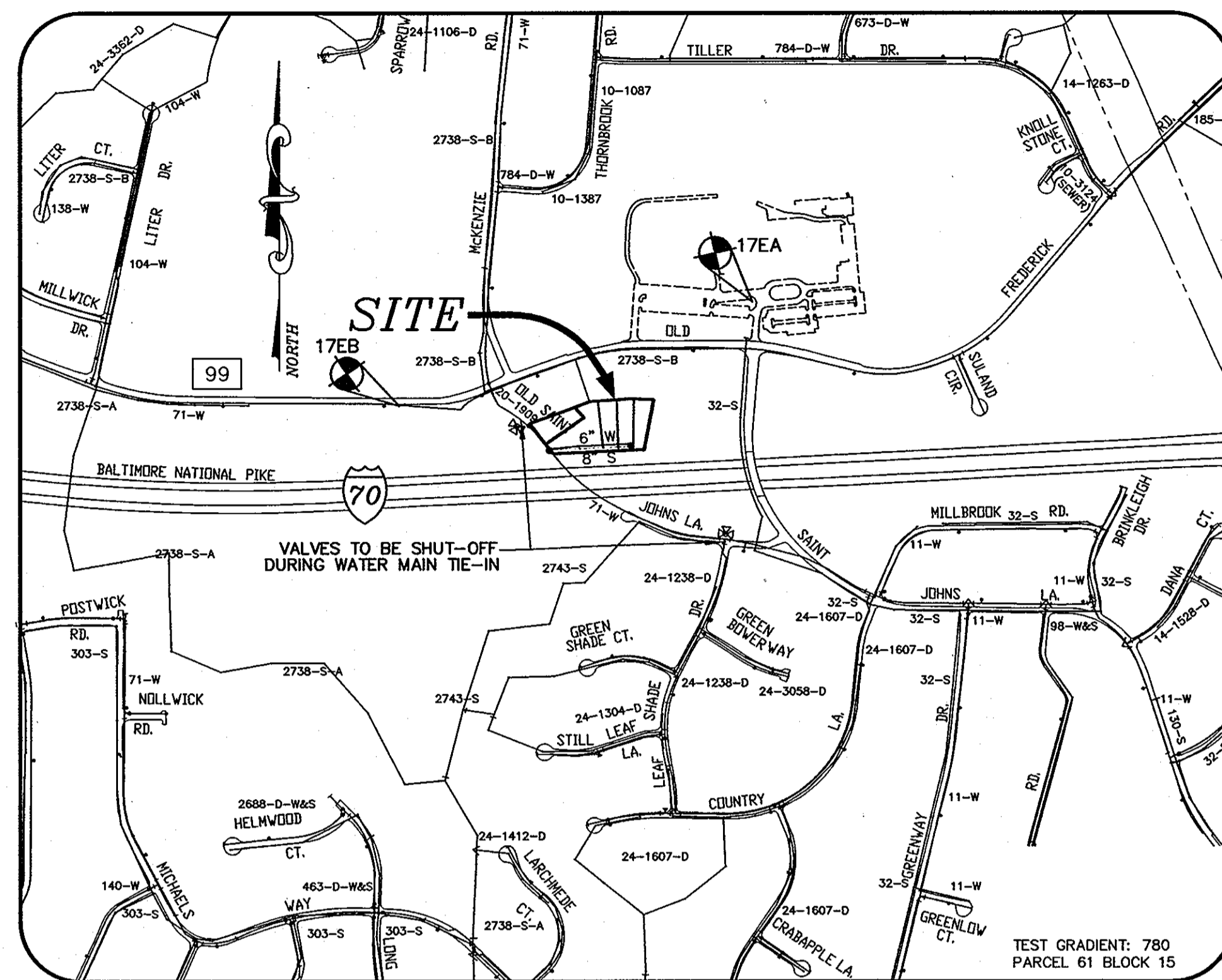
600' SCALE MAP NO. 17 BLOCK NO. 15

**DAMPMAN PROPERTY**  
LOTS 3 - 6

CONTRACT NO.: 24-4658-D  
TAX MAP 17 BLOCK 15 PARCEL 61  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

scale AS SHOWN

1 OF 2



**LOCATION MAP**

SCALE 1"=600'  
ADC MAP #4815, E-3

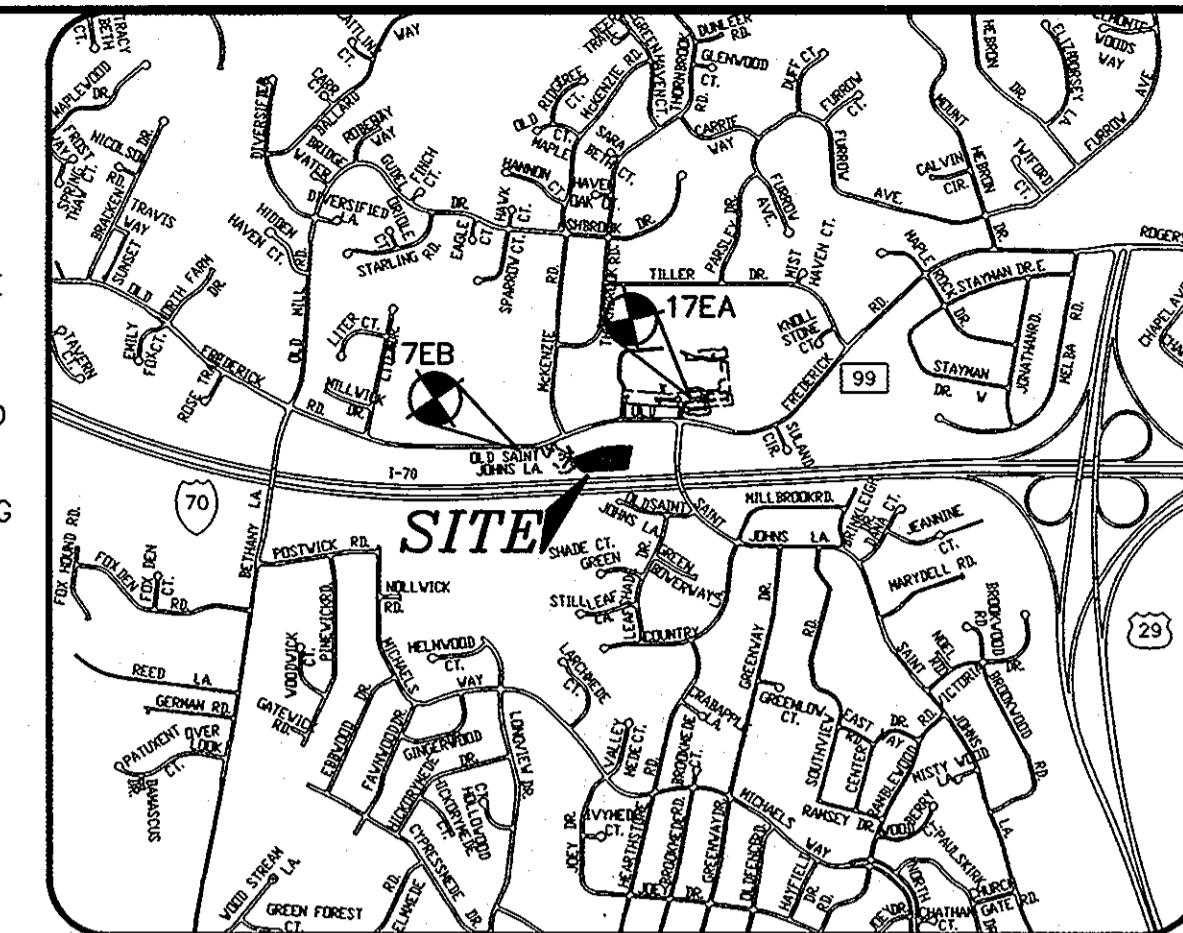
TYPE OF BUILDING	SFD
No. OF UNITS	4
No. OF WATER HOUSE CONNECTION	4
No. OF SEWER HOUSE CONNECTIONS	4
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WWTP

**WATER**

- ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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 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 PLANS OR IN SPECIFICATIONS.
- FIRE SPRINKLER SYSTEMS FOR ALL SINGLE FAMILY DWELLINGS SHALL HAVE A MINIMUM OF A 1-1/2" CONNECTION WITH A 1" METER.

**SEWER**

- 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 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.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.



VICINITY MAP SCALE 1"=2000' ADC MAP #4815, E-3

**GENERAL 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 CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD & BOUNDARY SURVEYS WERE PERFORMED ON AUGUST 2007 BY MILDENBERG BOENDER & ASSOCIATES, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS, INC.
- 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. 17EA AND NO. 17EB. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 17EA & 17EB. GEODETIC STATIONS:  
17EA - N-594,357.6177 E-1,357,519.3685 ELEV-478.768  
17EB - N-593,813.8606 E-1,355,731.8540 ELEV-453.475
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 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 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 THE 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 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 [Symbol] AT THE LOCATIONS OF THE TEST PITS. 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.
- THE 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  
BGE(CONSTRUCTION SERVICES).....410-850-4620  
BGE(EMERGENCY).....410-685-1400  
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 THE 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 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 CODE.
- ABANDON THE EXISTING WHC TO 2011 OLD ST. JOHNS LANE; DISCONNECT AND PLUG AT THE MAIN.
- ABANDON THE EXISTING SEPTIC SYSTEM FOR 2011 OLD ST. JOHN'S LANE.
- CONTRACTOR TO ADHERE TO HOWARD COUNTY DESIGN VOLUME IV, SECTION 50B, EROSION AND SEDIMENT CONTROL.

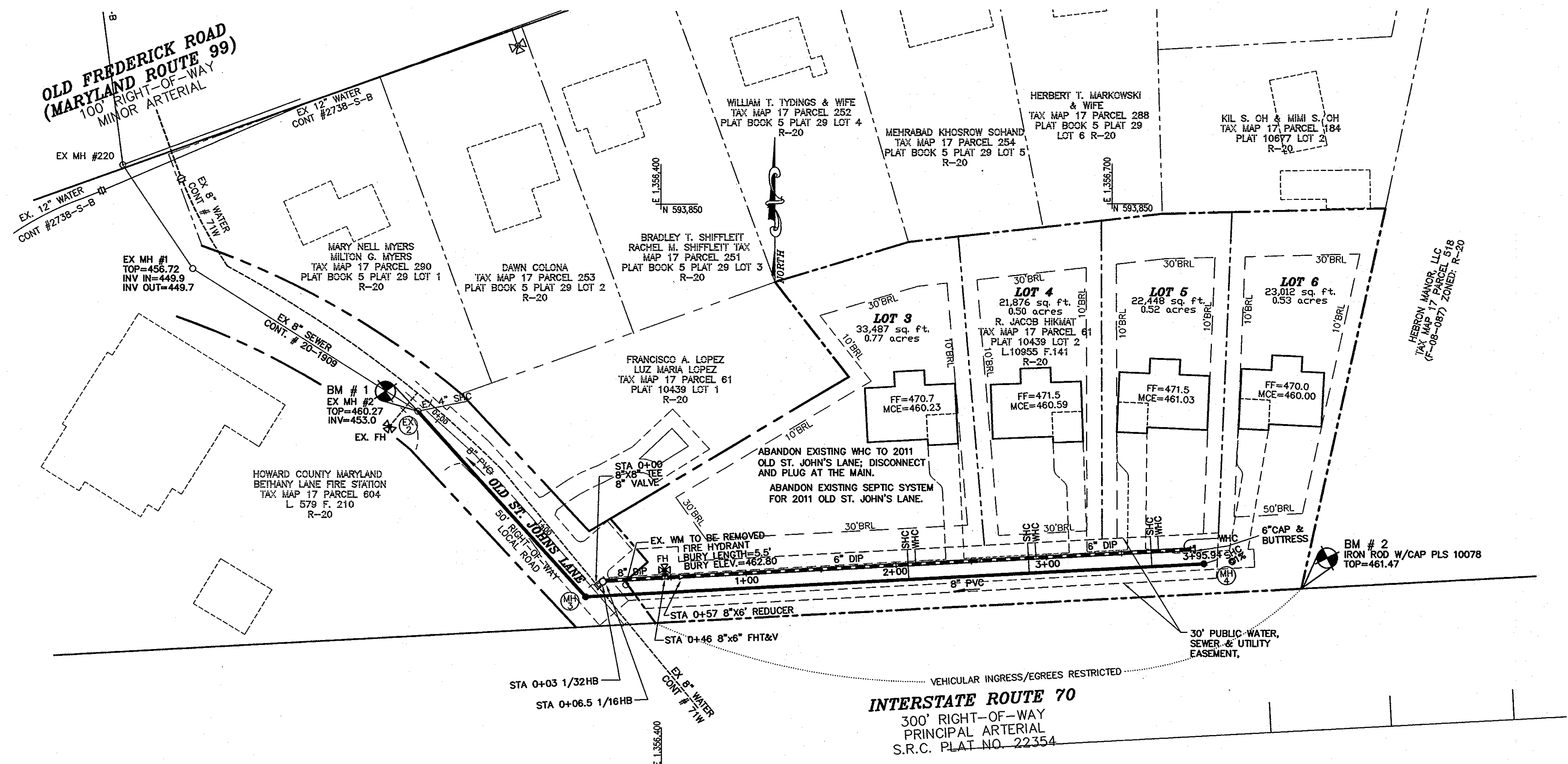
PLAN REFERENCE NUMBERS:  
F-08-119, SP-09-001

**INDEX OF DRAWINGS**

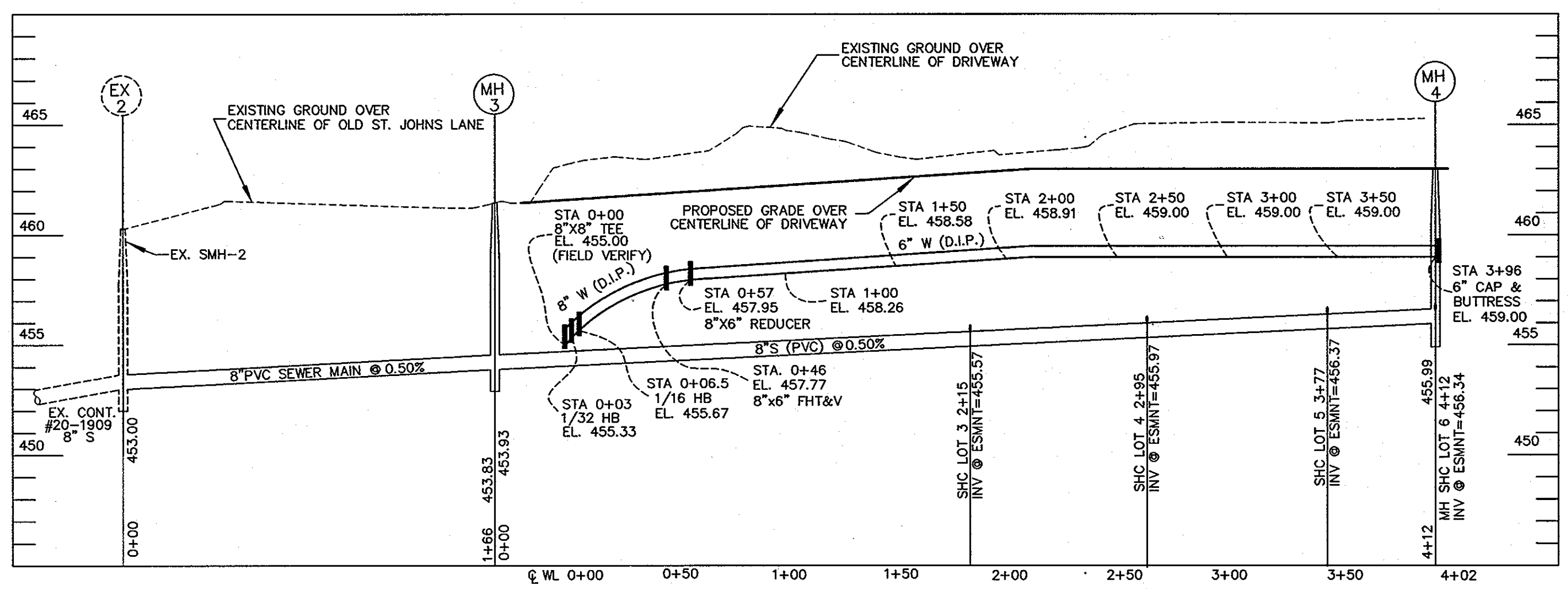
NO.	DESCRIPTION
1	COVER SHEET
2	WATER & SEWER PLAN & PROFILE

**SHC CHART**

LOT	SLOPE	EL @ EASE	MCE	BSEL
3	2%	455.57	460.23	461.70
4	2%	455.97	460.59	462.50
5	2%	456.37	461.03	462.50
6	1%	456.34	460.00	461.00



**PLAN VIEW**  
SCALE: 1"=50'



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

**OWNER/DEVELOPER**  
R. JACOB HIKMAT  
6800 DEERPATH ROAD, STE 150  
ELKRIDGE, MD 21075

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Silva Chen*  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*W. Damman*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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**WATER & SEWER PLAN & PROFILE**  
600' SCALE MAP NO. 17 BLOCK NO. 15

**DAMPAN PROPERTY**  
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TAX MAP 17 BLOCK 15 PARCEL 61  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

07-021.dwg (F:\08-118) W&S-FRE.dwg