

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" CAP	2			
8" D.I.P	653'			
6" D.I.P	25'			
8" X 6" TEE	2			
6" VALVE	2			
6" FIRE HYDRANT	2			
1/2 BEND	4			
8" X 8" TEE	1			
8" VALVE	1			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

8" WATER MAIN STEVENS FOREST GREEN

COLUMBIA
VILLAGE OF OWEN BROWN
SECTION 5 AREA 1 PARCEL A-1

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

CONTRACT NO. 44-3912-D

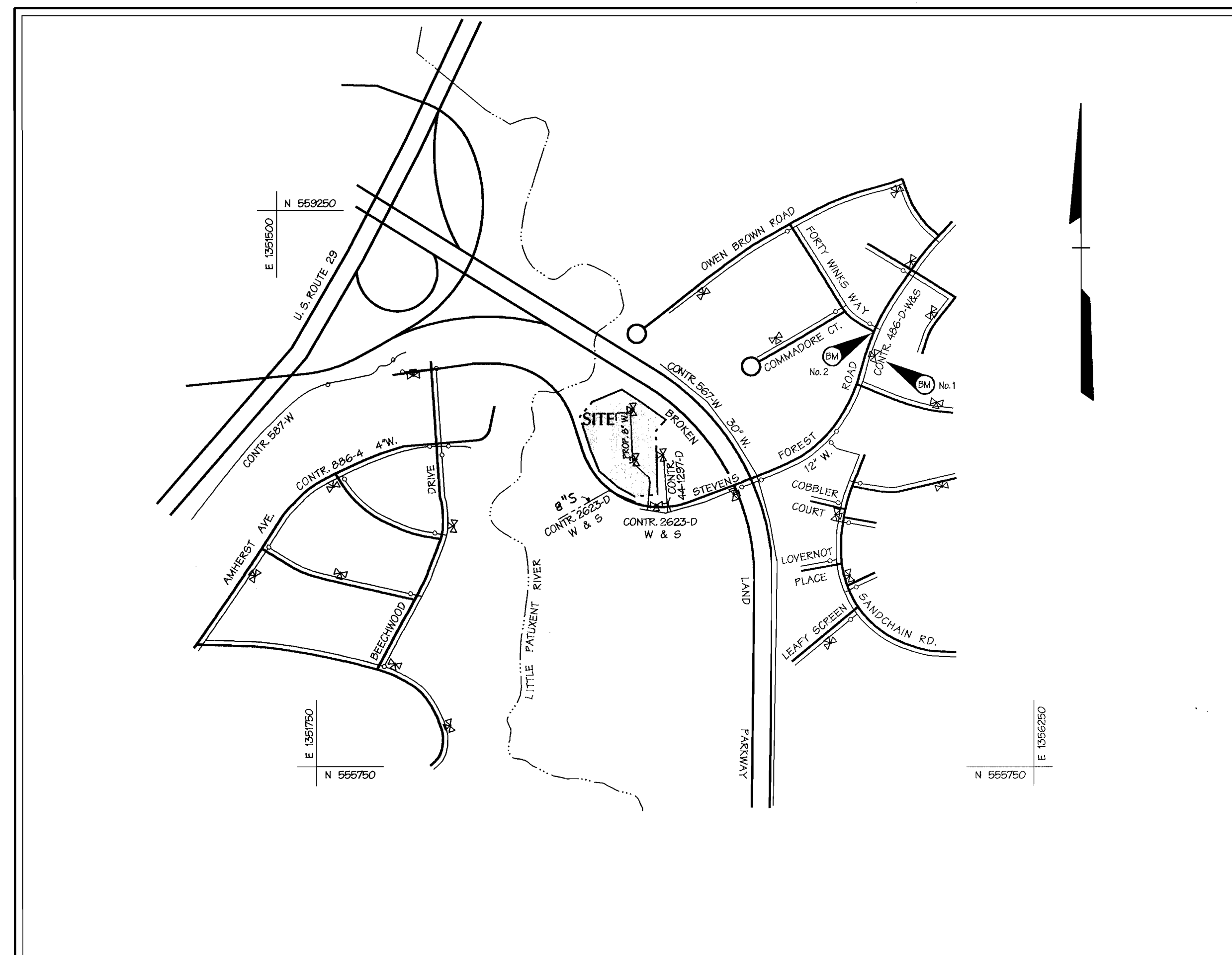
GENERAL NOTES

PART I - GENERAL

- 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).
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MIN. OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED UTILITY COMPANIES AND MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO SCHEDULE BRACING OF 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. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST FITS 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 FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS 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 UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - (410) 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 850-4620
 - BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL - (410) 787-9068
 - MISS UTILITY - 1-800-257-7777
 - BELL ATLANTIC - 1-800-446-5266
 - COLONIAL PIPELINE CO. - (410) 756-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 313-4900
- 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.
- 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 CUT OF ANY COUNTY ROAD OR BORING/ JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.14(a) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' 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 WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
- ALL EXISTING VALVES TO BE CLOSED WHEN CONNECTION TO THE SYSTEM IS MADE.
- SPRINKLER SYSTEMS FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHALL HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.



BENCHMARK

DESCRIPTION

36 HA N 559116.609 E 1354381.451
ELEVATION 292.938

36 EA N 556986.794 E 1354535.254
ELEVATION 355.577

TYPE OF BUILDING: OFFICE
NO. OF BUILDINGS: 1
NO. OF WATER HOUSE CONNECTIONS: 1
DRAINAGE AREA: LITTLE PATUXENT
TREATMENT PLANT: LITTLE PATUXENT WATER RECLAMATION PLANT

VICINITY MAP

SCALE: 1"=600'

CONTRACT NO. 44-3912-D

WATER CODE: E-13
TEST GRADIENT: .700
SEWER CODE: 5450000

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN SDP-00-142.

REVIEWED FOR NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

Signature: Cheryl Simmons
DATE: 10/12/00

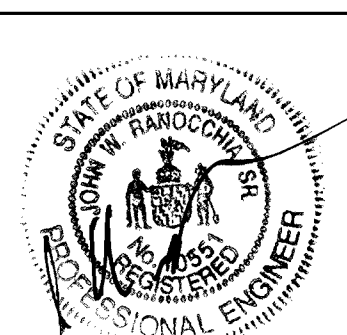
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED: John Robertson
HOWARD S.E.P. DATE: 10/12/00

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	SDS		
DRAWN BY:	ADL / MSS		
CHECKED BY:	RLH		
DATE:	SEPT. 18, 2000		
BY	NO.	REVISION	DATE

TITLE SHEET

600 SCALE MAP NO. 36 BLOCK NO. 14

STEVENS FOREST GREEN

COLUMBIA-VILLAGE OF OWEN BROWN SECTION 5 AREA 1 PARCEL A-1

6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

OWNER: THE HOWARD RESEARCH & DEVELOPMENT CORPORATION
C/O THE CREANEY & SMITH GROUP
925 FELL STREET
COLUMBIA, MD 21044

DEVELOPER: STEVENS FOREST GREEN, L.L.P.
C/O THE CREANEY & SMITH GROUP
925 FELL STREET
BALTIMORE, MD 21281

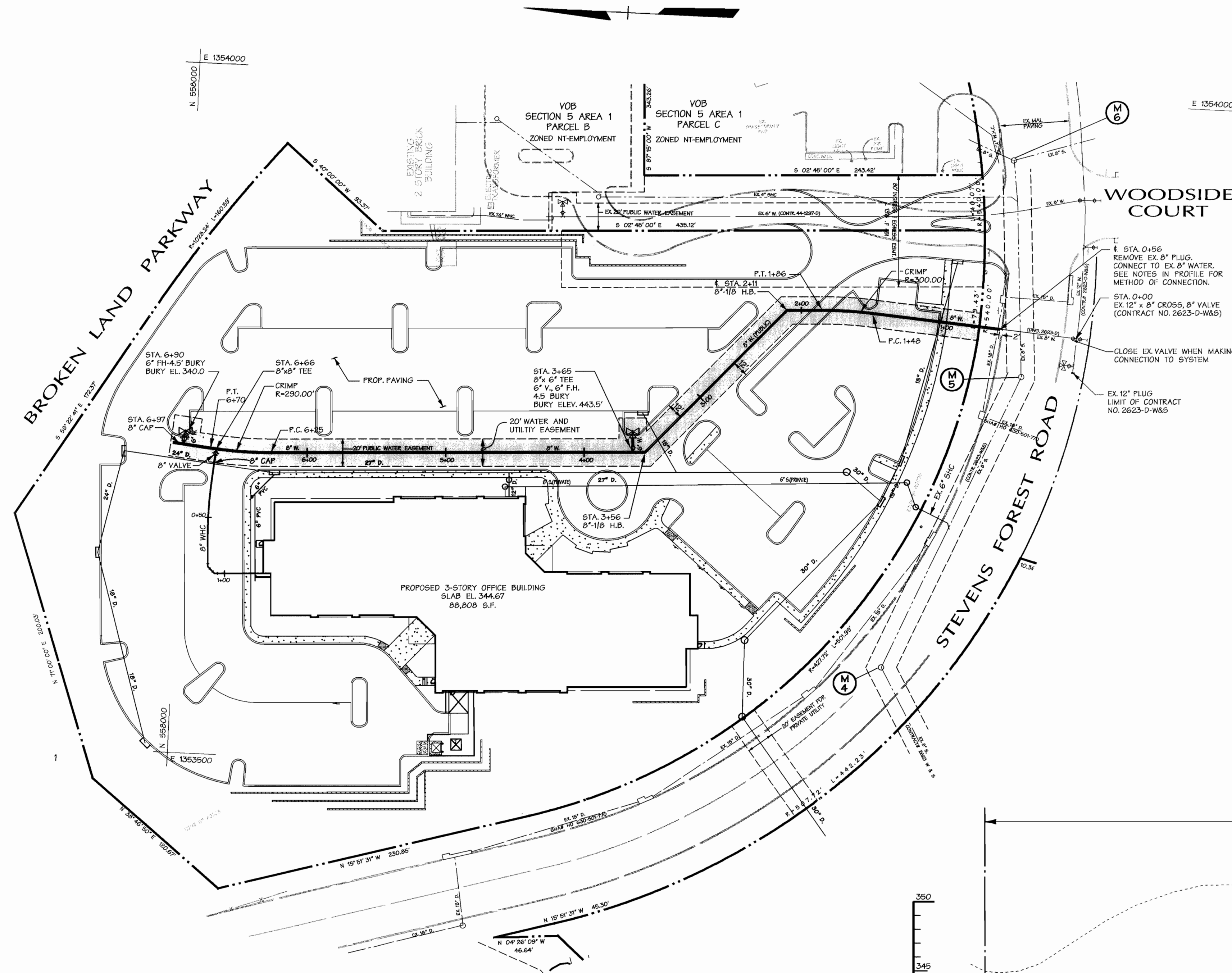
CONTRACT NO. 44-3912-D

SCALE AS SHOWN

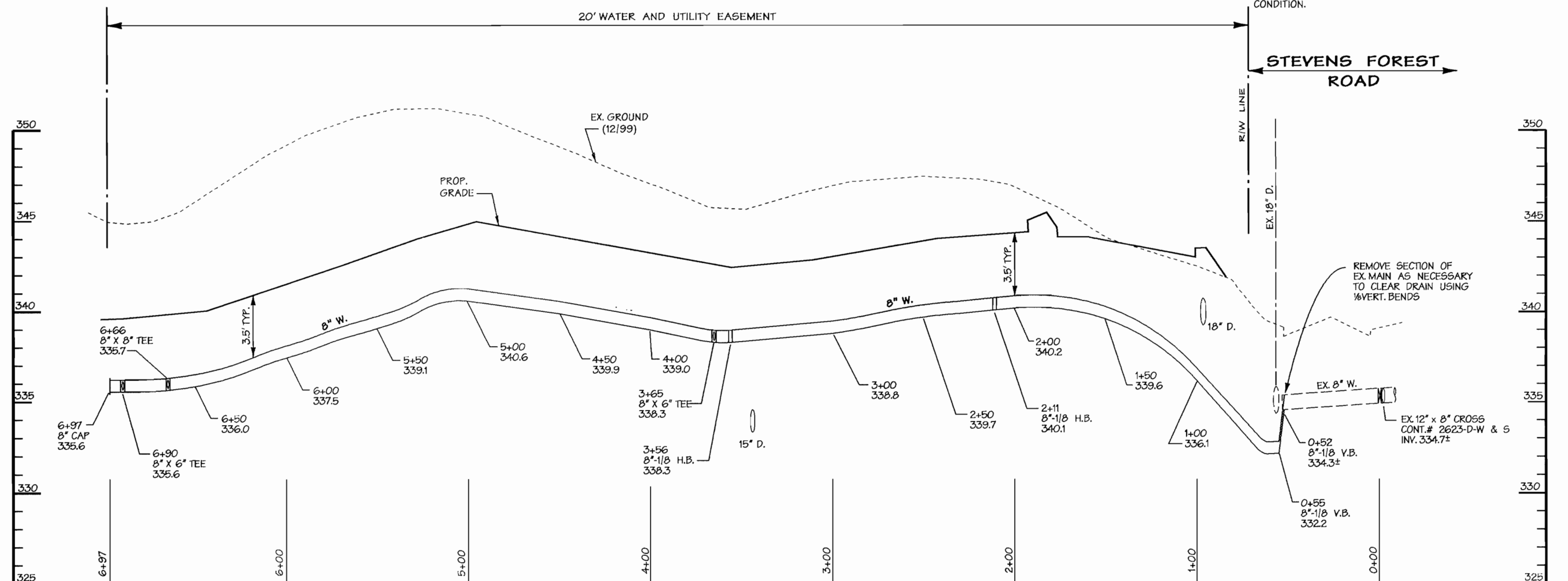
SHEET 1 OF 2

LOCATION TABLE

STATION	STRUCTURE	NORTH	EAST
0+00	12' X 8" CROSS		
0+56	CONNECT TO EX. 8" W.	LOCATE IN FIELD	
P.C. 1+48	BEGIN CRIMP	N 557,505.30	E 1,363,841.40
P.T. 1+86	END CRIMP	N 557,543.01	E 1,363,841.96
2+11	8'-1/8" H.B.	N 557,567.78	E 1,363,840.78
3+56	8'-1/8" H.B.	N 557,666.37	E 1,363,733.33
P.C. 6+26	BEGIN CRIMP	N 557,934.67	E 1,363,720.39
P.T. 6+70	END CRIMP	N 557,978.93	E 1,363,721.65
6+97	8" CAP	N 558,005.94	E 1,363,724.49



PLAN
1"=50'



PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

WATER MAIN CONNECTION NOTE:
IT IS ASSUMED THAT THE EX. 8" WATER
IS BLOCKED VERTICALLY BY THE EX. 18"
DRAIN PIPE. CONTRACTOR MUST
EXCAVATE THIS AREA BEFORE LAYING
ANY NEW PIPE AND NOTIFY THE
ENGINEER OF THE TRUE EXISTING
CONDITION.

USE MECHANICAL JOINT RESTRAINT PIPE AND
FITTINGS FROM STATION 0+55 TO STATION 1+00

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert B. Berman</i> 10-10-00 CHIEF - BUREAU OF UTILITIES - DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>John J. Berman</i> 10/6/00 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE	DMW Daft · McCune · Walker, Inc. A Team of Land Planners, 200 East Pennsylvania Avenue, Towson, Maryland 21286 Landscape Architects, Engineers, Surveyors & Environmental Professionals 410 296 3333 Fax 296 4705	DESIGN BY: SDS DRAWN BY: ADL / MSS CHECKED BY: RLH DATE: SEPT. 18, 2000	STATE OF MARYLAND PROFESSIONAL ENGINEER JOHN W. RANNEY	WATER MAIN PLAN AND PROFILE	COLUMBIA-VILLAGE OF OWEN BROWN SECTION 5 AREA 1 PARCEL A-1 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND OWNER: THE HOWARD RESEARCH & DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD 21044 DEVELOPER: STEVENS FOREST GREEN, L.L.P. C/O THE CRANEY & SMITH GROUP 925 FELL STREET BALTIMORE, MD 21281	SCALE AS SHOWN SHEET 2 OF 2

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