


GENERAL NOTES

- PART 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 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" 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 TO 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 WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
 C. & P. TELEPHONE 597-8565
 A.T. & T. 865-3803
 STATE HIGHWAY ADMINISTRATION 531-5533
 B.G.&E. CO. CONTRACTOR SERVICES 850-4620
 B.G.&E. CO. UNDER GROUND DAMAGE CONTROL 787-9068
 MISS UTILITY 1-800-257-7777
 COLONIAL PIPELINE CO. 795-1390
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES 313-4900
 - 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 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(g) 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 RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND 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 PLANS OR IN SPECIFICATIONS.

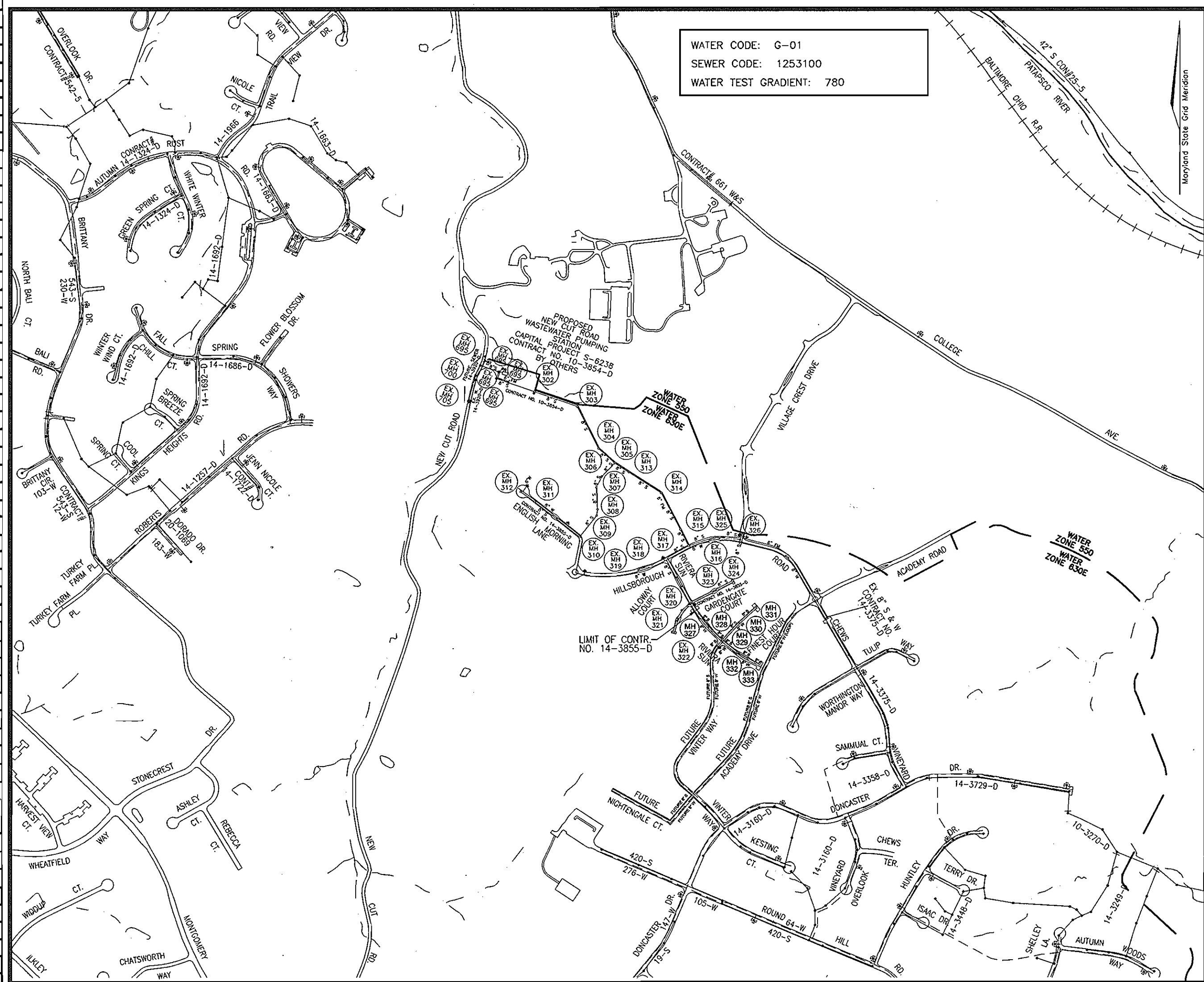
PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 18" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	5 (11 FUTURE)
NO. OF WATER HOUSE CONNECTIONS:	5 (11 FUTURE)
NO. OF SEWER HOUSE CONNECTIONS:	5 (11 FUTURE)
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	NEW CUT ROAD
	WASTEWATER PUMPING STATION

WATER AND SEWER AS-BUILTS

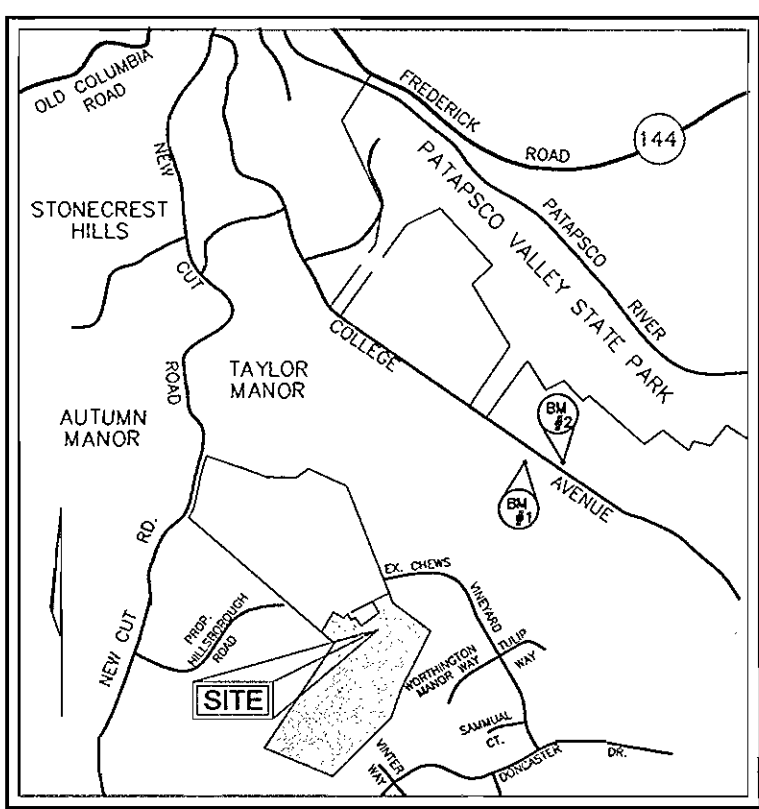
LOT #	FROM	TO	DISTANCE
B1	SMH 333	SHC	33'
	WHC LOT 04	SHC	39'
	SDMH 47B	SHC	40'
04	SMH 333	WHC	47.3'
	WHC 04	WHC	5'
	SDMH 47B	WHC	73'
03	WHC LOT 04	SHC	30'
	SMH 333	SHC	81'
	SMH 332	SHC	77.0'
02	SDMH 47B	WHC	70'
	SMH 333	WHC	50.5'
	WHC LOT 01	WHC	5'
01	SMH 332	SHC	27'
	LOT 03 WHC	SHC	27'
	LOT 04 SHC	SHC	72'
59	SMH 332	WHC	45'
	WHC LOT 02	WHC	5'
	SHC LOT 02	WHC	58'
58	SMH 332	SHC	85'
	LOT 02 WHC	SHC	43.5'
	FH 0+41	SHC	40'
57	SMH 332	WHC	48'
	WHC LOT 03	WHC	5'
	FH 0+41	WHC	88'
55	SMH 331	SHC	38'
	LOT 59 WHC	SHC	31'
	LOT 57 SHC	SHC	20.5'
54	SMH 331	WHC	08.8'
	LOT 58 WHC	WHC	5'
	LOT 52 SHC	WHC	74'
53	LOT 52 SHC	SHC	50'
	LOT 52 WHC	SHC	33'
	LOT 57 WHC	SHC	37'
52	LOT 52 SHC	WHC	09.5'
	SMH 330	WHC	94'
	SMH 331	WHC	73'
51	LOT 57 WHC	SHC	30'
	SMH 331	SHC	43'
	LOT 59 WHC	SHC	38'
50	SMH 331	WHC	78'
	LOT 52 WHC	WHC	5'
	LOT 58 WHC	WHC	30'
50	SMH 330	SHC	52.7'
	WHC LOT 54	SHC	14.0'
	WHC LOT 51	SHC	34.2'
50	SMH 330	WHC	00.9'
	WHC LOT 53	WHC	4'
	WHC LOT 51	WHC	31.5'
50	SHC LOT 50	SHC	30.3'
	WHC LOT 50	SHC	54.7'
	WHC LOT 53	SHC	47.5'
50	WHC LOT 54	WHC	4'
	WHC LOT 50	WHC	30'
	SHC LOT 50	WHC	58'



LOCATION PLAN

SCALE: 1"=600'

AS BUILT
DATE: MARCH 2000

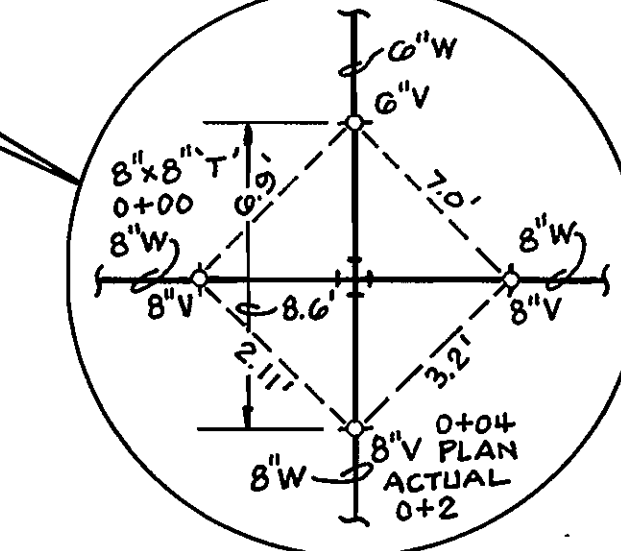
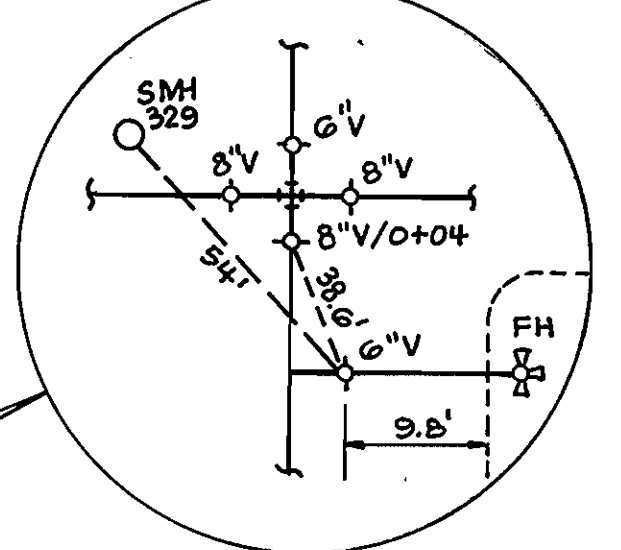


VICINITY MAP
SCALE: 1"=2000'

BENCHMARK NO. 1: COUNTY CONTROL #3044005R
3/4" REBAR 0.8' BELOW SURFACE
N. 578233.92, E. 1373142.33
ELEV. = 374.389
BENCHMARK NO. 2: COUNTY CONTROL #3044004R
3/4" REBAR 0.6' BELOW SURFACE
N. 578128.03, E. 1373460.71
ELEV. = 362.575

WATER AND SEWER AS-BUILTS

LOT #	FROM	TO	DISTANCE
52	SMH 330	SHC	32'
	LOT 52 WHC	SHC	50'
	LOT 58 WHC	SHC	08'
51	LOT 57 WHC	WHC	5'
	SMH 330	WHC	80'
	SMH 331	WHC	83'
50	LOT 51 WHC	SHC	49.5'
	LOT 51 WHC	SHC	17'
	LOT 53 WHC	SHC	35.4'
50	LOT 51 SHC	WHC	17'
	LOT 50 WHC	WHC	4'
	LOT 50 SHC	WHC	82.2'
50	LOT 51 WHC	SHC	52.2'
	LOT 50 WHC	SHC	48.2'
	LOT 53 SHC	SHC	30.3'
50	LOT 51 WHC	WHC	4'
	LOT 53 SHC	WHC	54.0'
	LOT 53 WHC	WHC	30'



VALVES FROM TO DISTANCE

VALVES	FROM	TO	DISTANCE
6" FHV	FH 0+40	6" VALVE	9.8'
0+4042	SMH 329	6" VALVE	54'
	8" VALVE	6" VALVE	38.0'
	0+04		

QUANTITIES				
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: MARCH 2000				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	675 LF	675 L.F.		GRIFFIN PIPE
6" W	350 LF	350 L.F.		GRIFFIN PIPE
FIRE HYDRANT	1 EACH	1 EACH		MUELLER
8"x8" CROSS	1 EACH	1 EACH		U.S. PIPE
8"x6" REDUCER	1 EACH	1 EACH		U.S. PIPE
8" V	3 EACH	3 EACH		U.S. PIPE
6" V	2 EACH	2 EACH		U.S. PIPE
8"x6" TEE	1 EACH	1 EACH		U.S. PIPE
8" CAP & BUTTRESS	2 EACH	2 EACH		U.S. PIPE
6" CAP & BUTTRESS	1 EACH	1 EACH		U.S. PIPE
8" S	908 LF	908 L.F.		J.M. MFG.
MANHOLES	7 EACH	7 EACH		ATLANTIC
8" STOPPER	3 EACH	3 EACH		U.S. PIPE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-02-170.

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

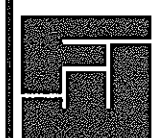
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John R. Robertson
SOIL CONSERVATION DISTRICT

Jim Meyer
U.S. SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

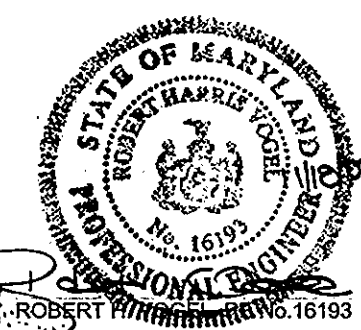


FREDERICK WARD ASSOCIATES, INC.
7125 Riverwood Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: CMH			
DRN: CMH			
CHK: JCO			
DATE: NOV. 2002	BY NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 25
BLOCK NO. 20
600' SCALE MAP NO. 31
BLOCK NO. 2

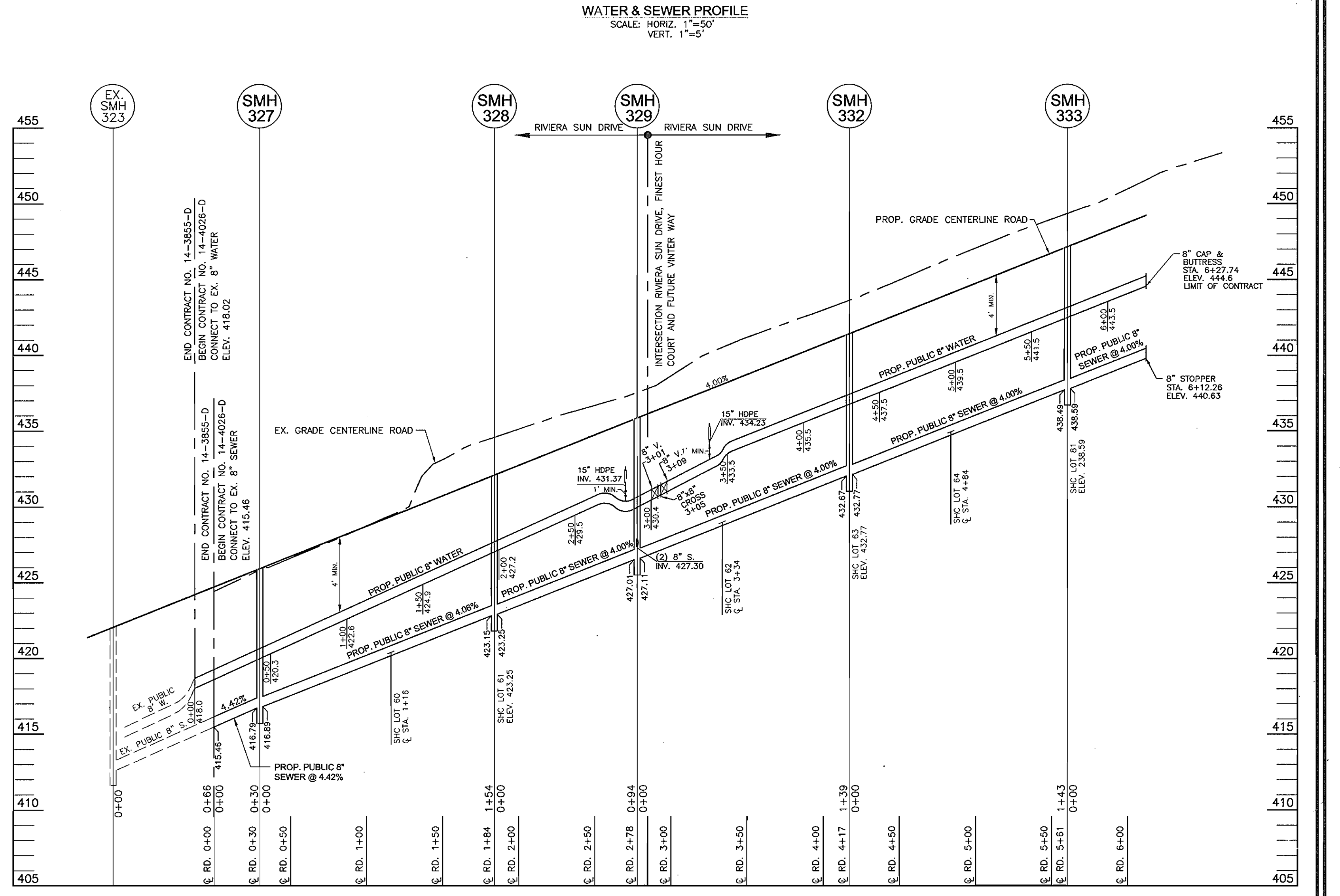
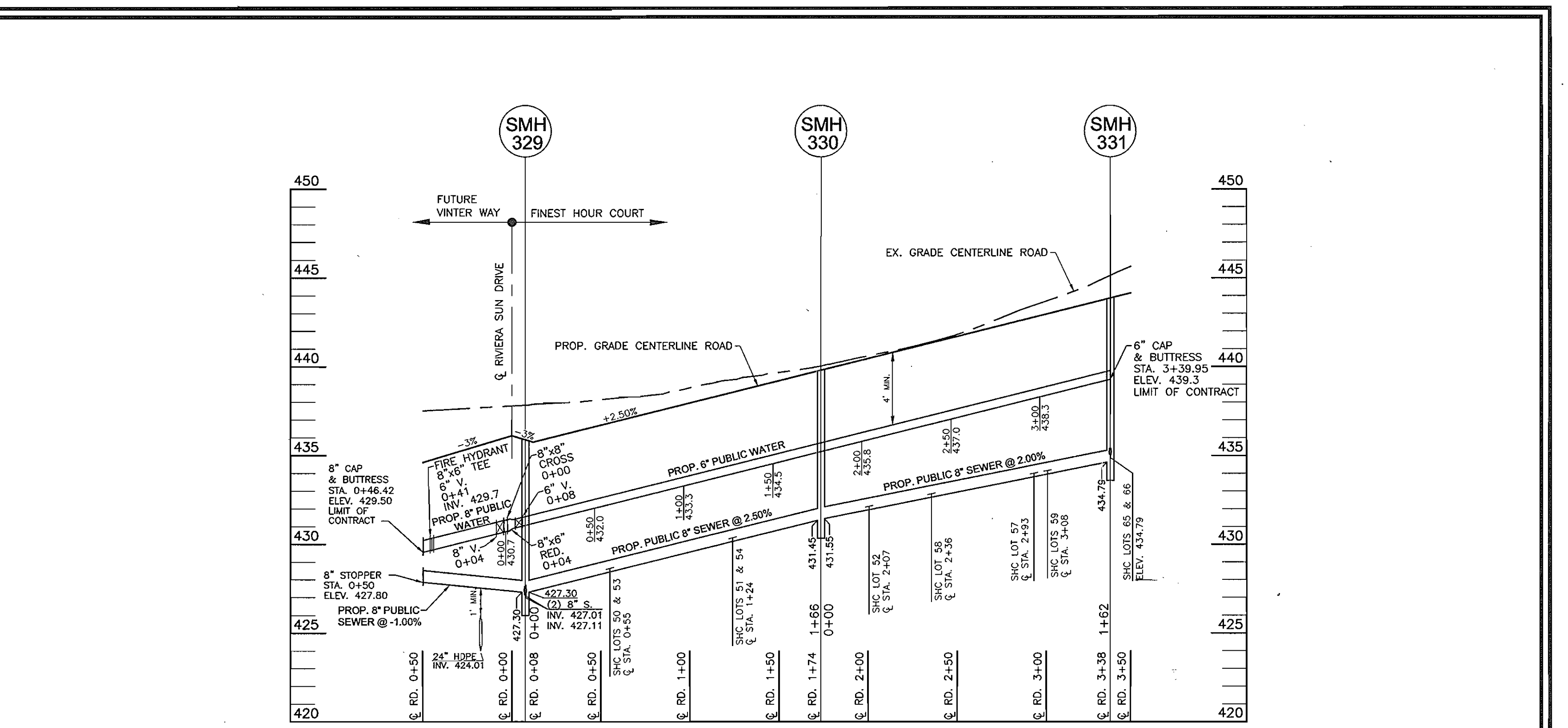
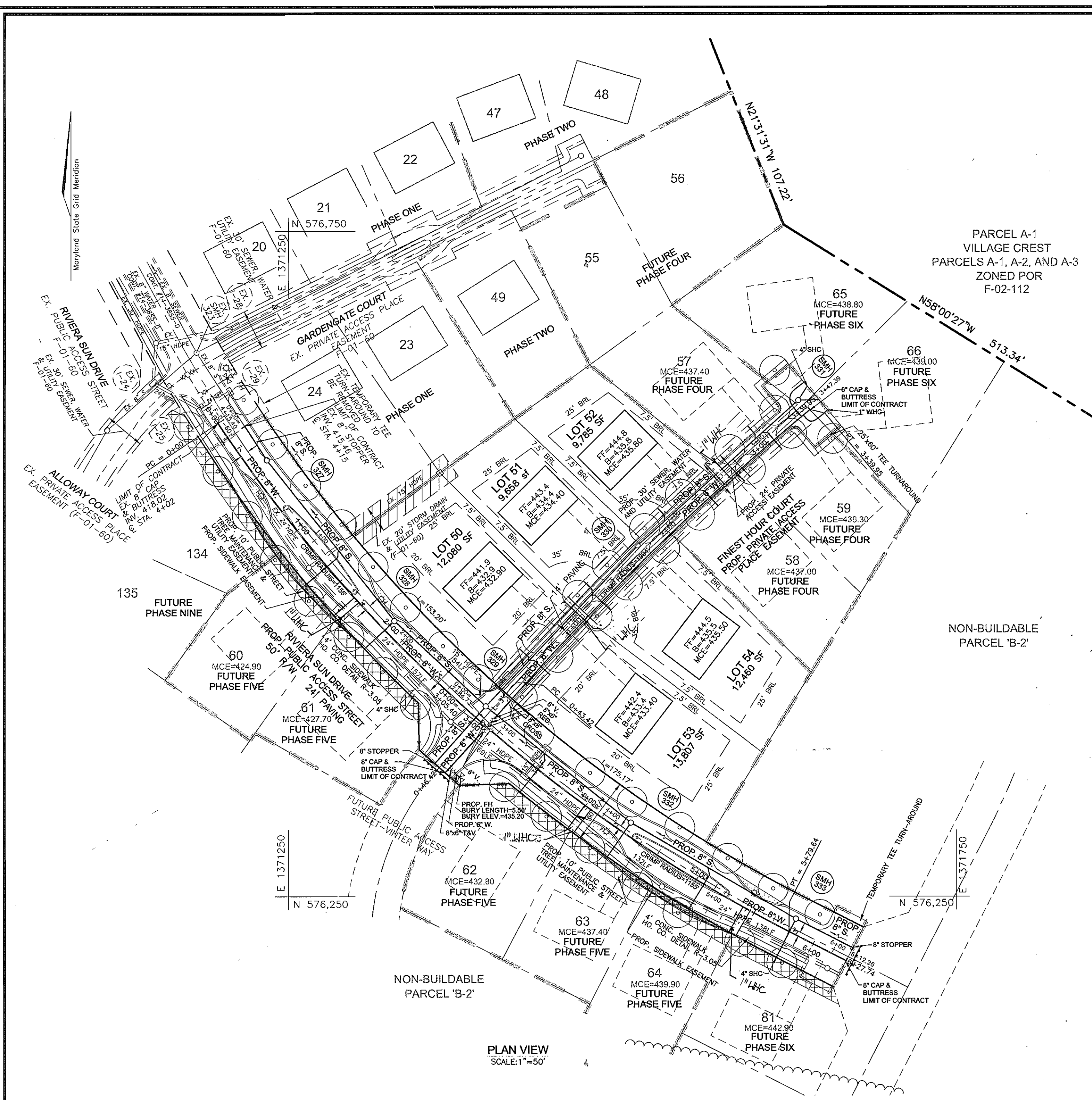


WORTHINGTON FIELDS
PHASE 3 LOTS 50-54 AND NON-BUILDABLE PARCEL 'B-2'
A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-1', PHASE 2
CONTRACT NO. 14-4026-D

TAX MAP 25 BLOCK 20
TAX MAP 31 BLOCK 2
2ND ELECTION DISTRICT

PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 2



MANHOLE LOCATION CHART

MANHOLE NO.	TYPE	LOCATION	TOP ELEVATION
SMH 327	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576578.02 E 1371233.76	425.68
SMH 328	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576547.10 E 1371329.30	431.92
SMH 329	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576392.80 E 1371397.64	435.61
SMH 330	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576513.77 E 1371511.28	439.65
SMH 331	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576622.86 E 1371631.61	443.71
SMH 332	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576305.40 E 1371506.22	441.23
SMH 333	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 576232.98 E 1371629.91	447.15

WATER LOCATION CHART

CL ROAD	APPURTENANCE	OFFSET
FUTURE WINTER WAY		
0+45	8"x6" TEE	6' LT.
0+04	8" VALVE	6' LT.
0+00	8"x8" CROSS	6' LT.
FINEST HOUR COURT		
0+00	8"x6" REDUCER	6' RT.
0+04	6" VALVE	6' RT.
RIVERIA SUN DRIVE		
2+87	8" VALVE	3' RT.
3+95	8" VALVE	3' RT.

AS BUILT
DATE: MARCH 2000

SEWER CONNECTION TABULATION

LOT NO	TYPE	ELEVATION @ MAIN	ELEVATION @ R/W	M.C.E.
50	S.H.C.	428.44	428.66	432.90
51	S.H.C.	430.16	430.39	434.40
52	S.H.C.	432.05	432.27	435.80
53	S.H.C.	428.44	428.82	433.40
54	S.H.C.	430.16	430.53	435.50
57	S.H.C.	434.00	434.22	437.40
58	S.H.C.	432.75	433.12	437.00
59	S.H.C.	434.05	434.43	438.30
60	S.H.C.	420.38	420.95	424.90
61	S.H.C.	423.25	423.82	427.70
62	S.H.C.	429.31	428.87	432.80
63	S.H.C.	432.77	433.36	437.40
64	S.H.C.	435.36	436.05	439.90
65	S.H.C.	434.89	435.10	438.80
66	S.H.C.	434.89	435.16	439.00
81	S.H.C.	438.59	439.20	442.90

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities 11-21-02	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division 12/11/02	FREDERICK WARD ASSOCIATES, INC. 7125 Riverwood Drive Columbia, Maryland 21046-2354 Phone: 410-290-9550 Fax: 410-720-6226 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia	DES: CMH DRN: CMH CHK: JCO DATE: NOV. 2002	PLAN & PROFILES 600' SCALE MAP NO. 25 BLOCK NO. 20 600' SCALE MAP NO. 31 BLOCK NO. 2		WORTHINGTON FIELDS PHASE 3 LOTS 50-54 AND NON-BUILDABLE PARCEL 'B-2' A RESUBDIVISION OF NON-BUILDABLE PARCEL 'B-1', PHASE 2 CONTRACT NO. 14-4026-D TAX MAP 25 BLOCK 20 TAX MAP 31 BLOCK 2 2ND ELECTION DISTRICT	SCALE AS SHOWN SHEET 2 OF 2
---	---	---	---	---	--	--	--------------------------------