


GENERAL NOTES

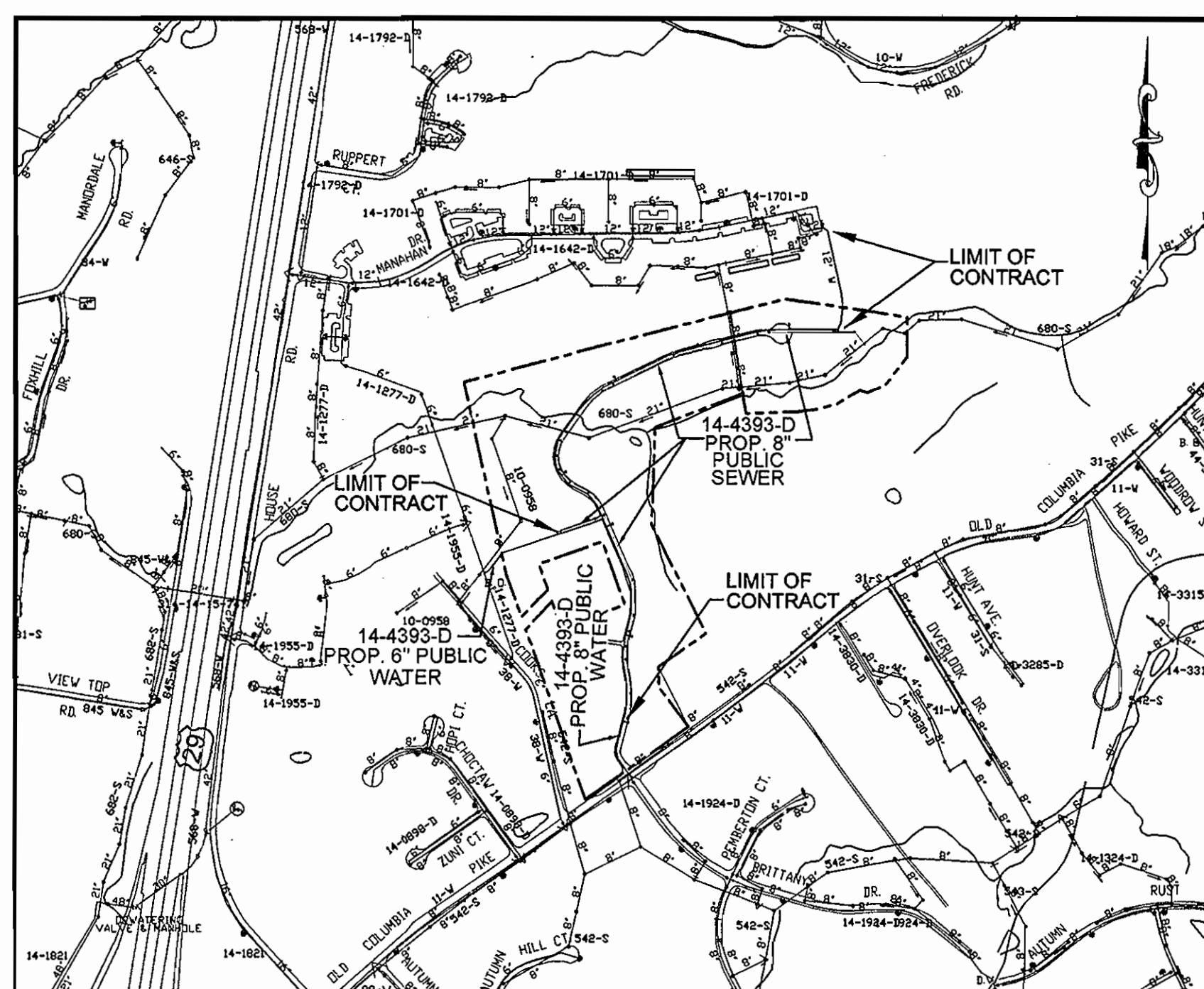
PART I

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MAY 2003. BY POTOMAC AERIAL SURVEYS, INC. SUPPLEMENTED BY FIELD RUN TOPOGRAPHY, PERFORMED BY FREDERICK WARD ASSOCIATES, OCTOBER 2003 AND FIELD RUN TOPOGRAPHY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC. ON DECEMBER 2006.
- 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. 24FB, NO. 2413.
ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROL PROVIDED ON THE DRAWINGS ARE 24FB AND 2413. (ENGINEER/SURVEY FIRM SHALL PROVIDE DESCRIPTION OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS ON CONCRETE STRUCTURES, ETC.)
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
- 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 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 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 NOTES 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 OPERATION AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
AT & T _____ 1-800-252-1133
BCE (CONTRACTOR SERVICE) _____ 410-850-4620
BCE (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 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 THE CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE 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 THE HOWARD COUNTY CODE.

TYPE OF BUILDING:	SINGLE HOUSE
NO. OF BUILDINGS:	54
NO. OF WATER HOUSE CONNECTIONS:	54
NO. OF SEWER HOUSE CONNECTIONS:	54
DRAINAGE AREA:	PATAPSCO RIVER LOWER NORTH BRANCH
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-06-201.

THE WOODS OF TIBER BRANCH II PHASE I, II & III CONTRACT NO. 14-4393-D

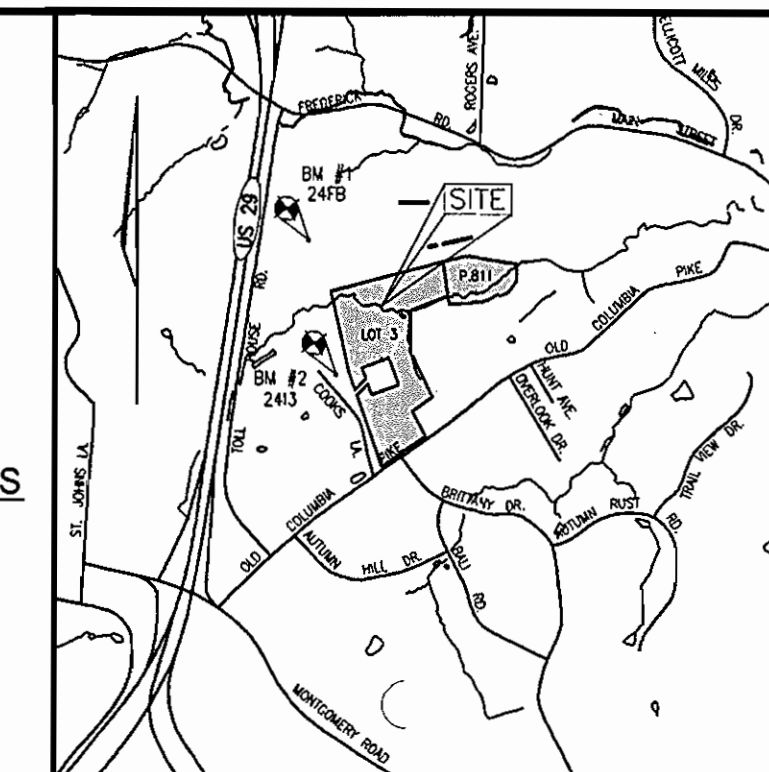


LOCATION PLAN
SCALE: 1"=600'

WATER CODE: F-04
SEWER CODE: 1400500
WATER TEST GRADIENT: 700

BENCHMARKS				
NO.	NORTHING	EASTING	ELEVATION	TYPE
24FB	582652.103	1364255.930	423.28	CONC. MONUMENT
2413	580648.904	1364974.471	404.48	CONC. MONUMENT

ADC COORDINATES
E 850,000
N 520,000
PAGE 12



VICINITY MAP
SCALE 1"=2000'

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'-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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE 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.

PART III - 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 GS.52, WHERE WATERTIGHT MANHOLE FRAME 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.

QUANTITIES				
NAME OF UTILITY CONTRACTOR: C.C.S.				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W. (DIP)	3220 LF	3190'	DIP	GRIFFIN PIPE
12" W	490 LF	490'	"	"
6" W. (DIP)	158 LF	158'	"	"
8"x6" FIREHYDRANT TEE & VALVE	7 EACH	7		SIGMA CORP.
FIREHYDRANT	7 EACH	7		MUELLER
8"x8" TEE	4 EACH	1	MS	SIGMA CORP.
8" VALVE	3 EACH	3	LATE VALVE	MUELLER
8"x12" REDUCER	1 EACH			
12" VALVE	2 EACH	2	LATE VALVE	MUELLER
8" CAP & BUTTRESS	1 EACH	1	CAP	SIGMA CORP.
8"x8" TAPPING SLEEVE & VALVE	1 EACH	1	SS	ROMAC / MUELLER
1/8 HB	2 EACH	2	DIP	SIGMA CORP.
1/32 HB	4 EACH	4	"	"
1/16 HB	7 EACH	7	"	"
8" SEWER MAIN	2716 LF	2516'	PVC	JM MFG.
SEWER MANHOLES	27 EACH	27	PRECAST	ATLANTIC CONCRETE
1" WHC	1380 LF	1300'	K COPPER	READING
4" SHC	1273 LF	1250'	PVC	JM MFG.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] 6/28/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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

[Signature] 6/28/07
SOIL CONSERVATION DISTRICT DATE

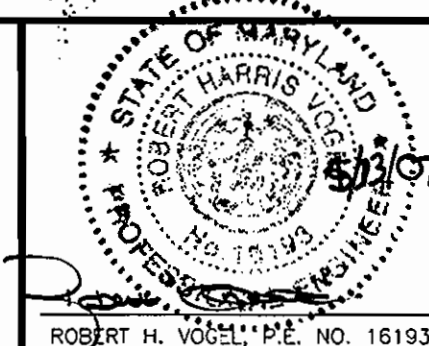
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

[Signature] 6/28/07
S.S. SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 6-28-07
CHIEF, BUREAU OF UTILITIES DATE

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7866
ELLCOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: RJ				
DRAWN BY: RJ				
CHECKED BY: RHV				
DATE: MAY 2007				
BY	NO	REVISION	DATE	
		AS-BUILT DATA ADDED	11/23/08	

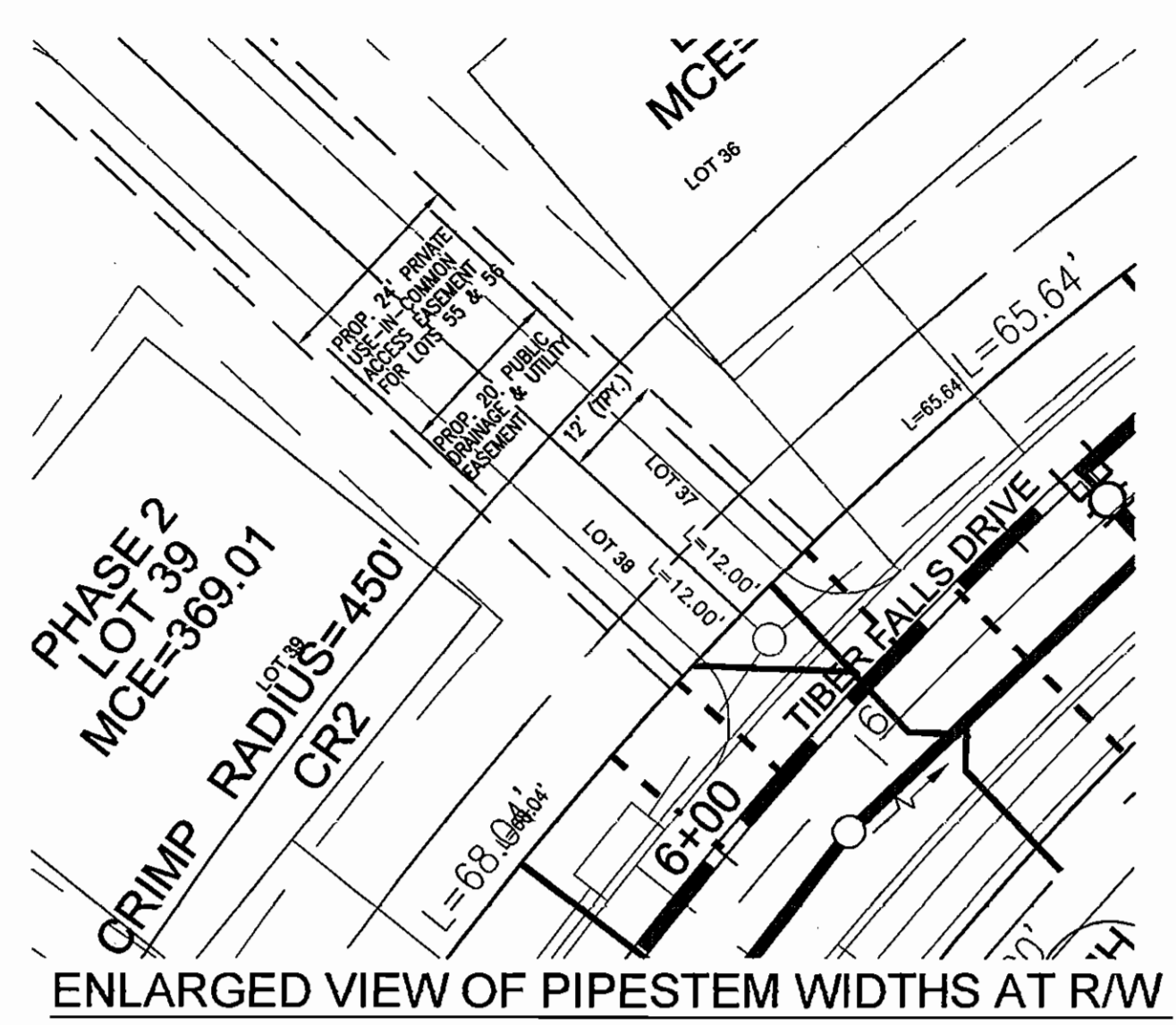
FINAL WATER & SEWER CONSTRUCTION PLAN
CONTRACT NO. 14-4393-D

THE WOODS OF TIBER BRANCH II - PHASE I, II & III
A RESUBDIVISION OF LOT 4 AS SHOWN ON A PLAT ENTITLED PLAT OF RESUBDIVISION LOT 4 & LOT 5 WURTZLER PROPERTY SUBDIVISION OF TM PARCEL 881 RECORDED AS PLAT NO. 17414

TAX MAP 24 BLOCK 18
2ND ELECTION DISTRICT
REF.: F-98-130, WP-04-20


PARCEL '811
HOWARD COUNTY, MARYLAND

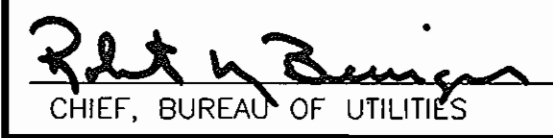
SCALE AS SHOWN
SHEET 1 OF 7



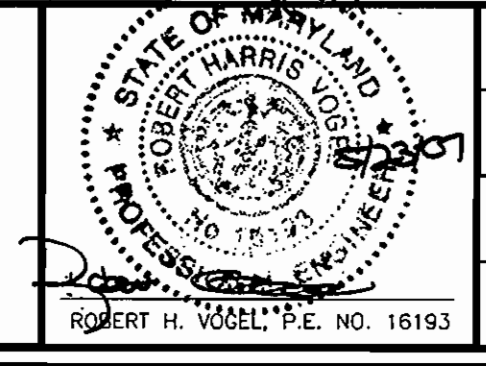
SCALE: 1"=20'

PLAN VIEW
SCALE: 1"=50'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 6/21/07

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

 CHIEF, BUREAU OF UTILITIES
 DATE: 6-18-07

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 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



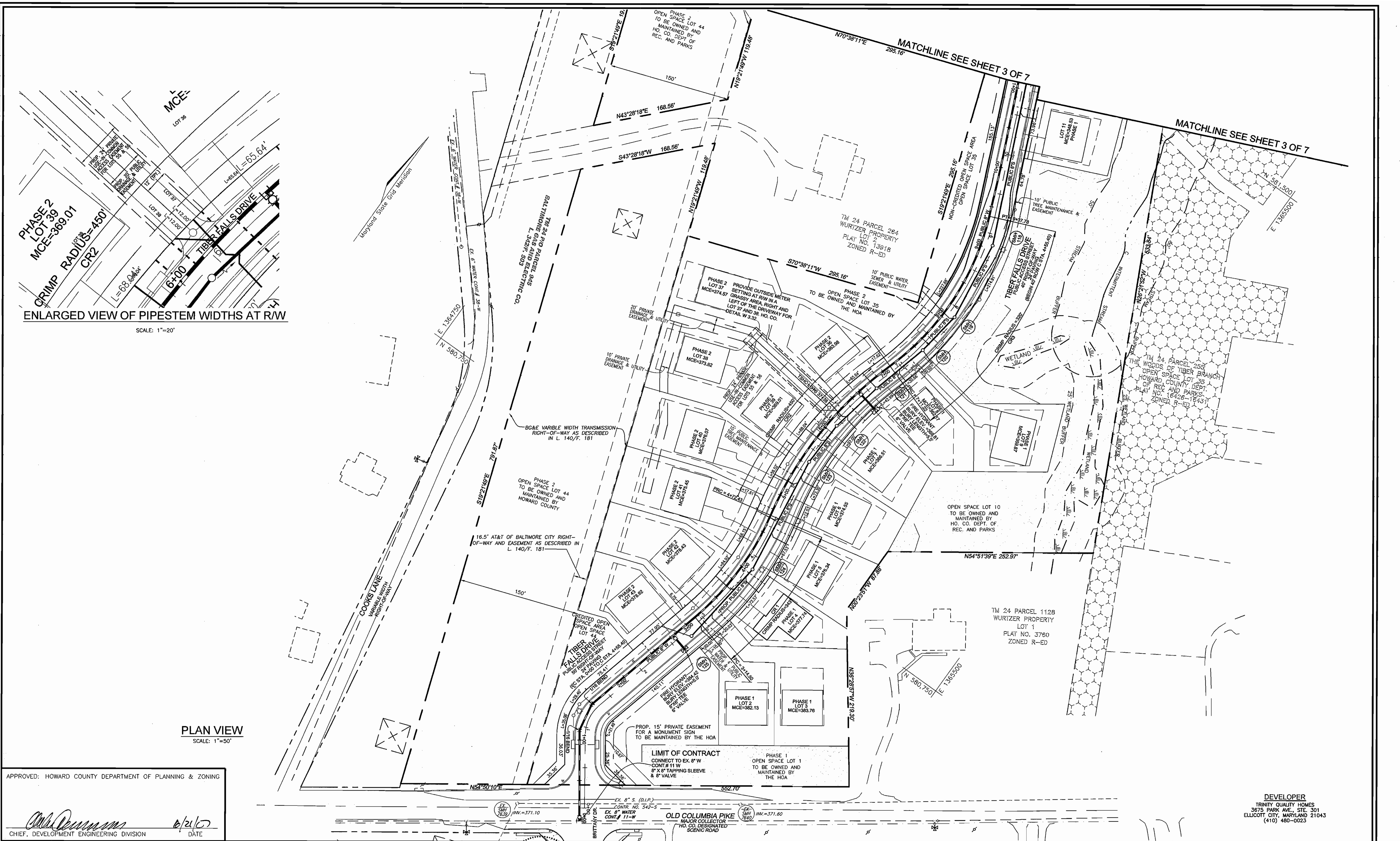
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DRAWN BY: RJ				
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DATE: MAY 2007				

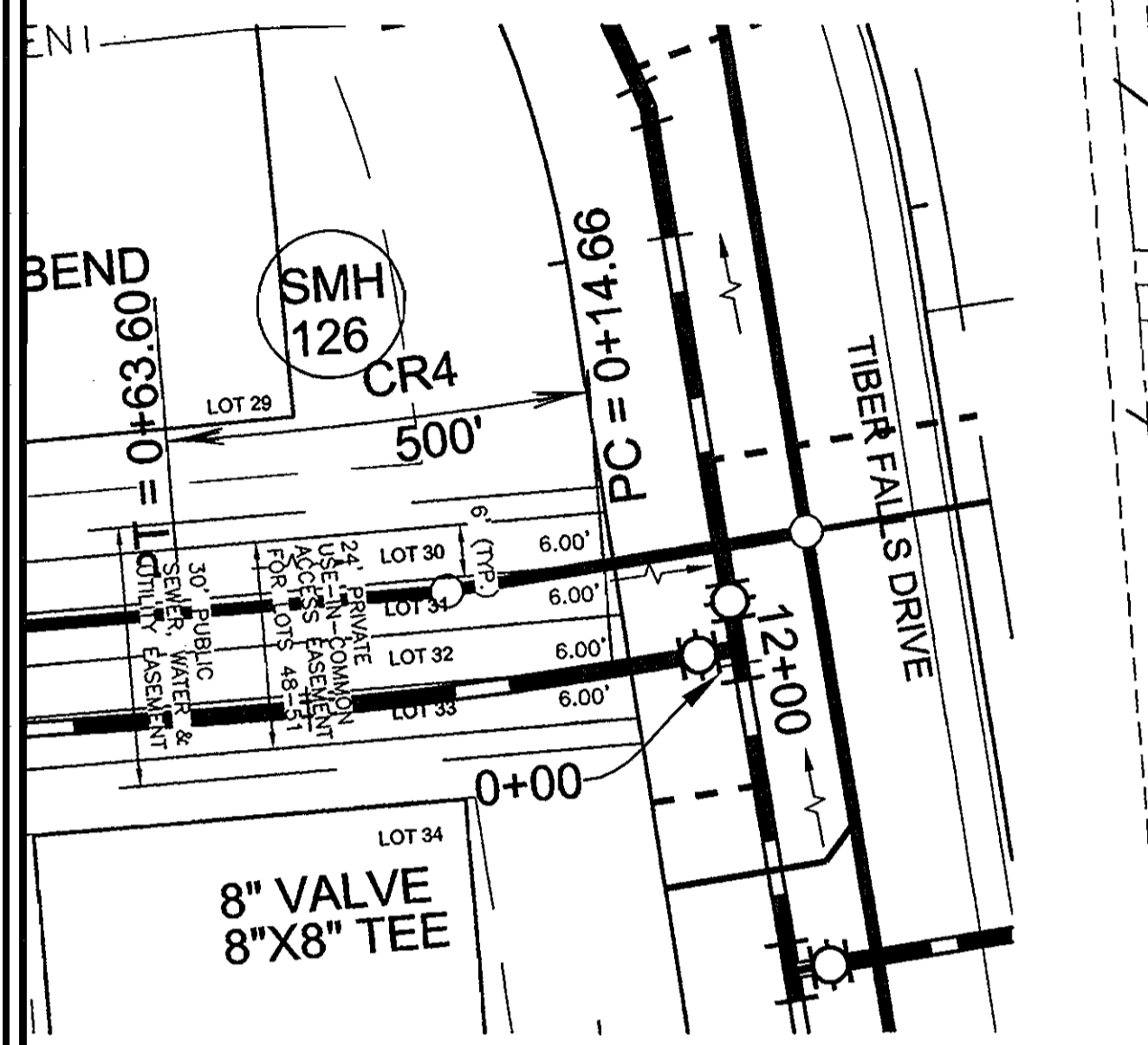
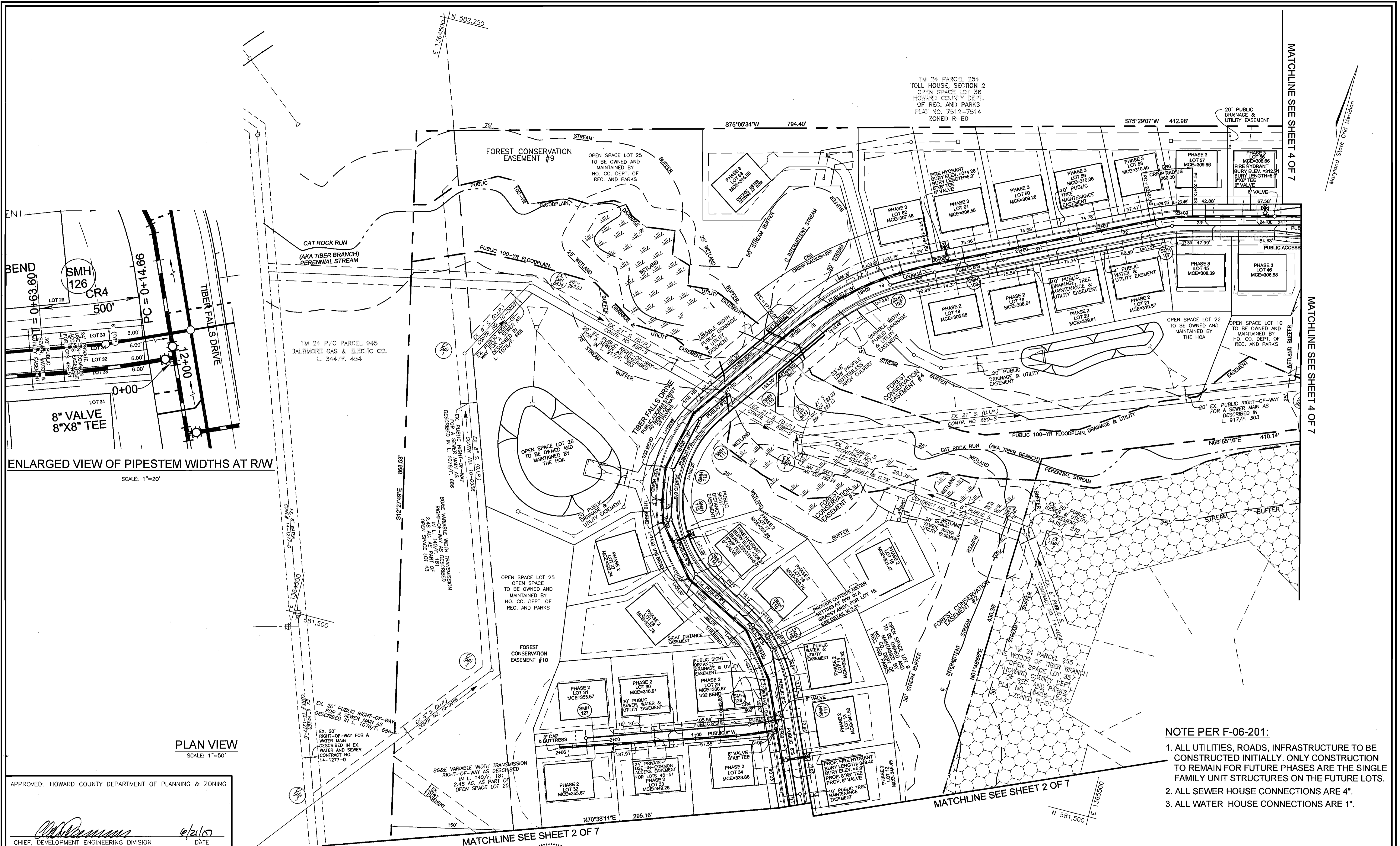
FINAL WATER & SEWER CONSTRUCTION PLAN
CONTRACT NO. 14-4393-D
 600' SCALE MAP NO. 24
 BLOCK NO. 18

THE WOODS OF TIBER BRANCH II - PHASE I, II & III
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 RECORDED AS PLAT NO. 17414
 TAX MAP 24 BLOCK 18
 2ND ELECTION DISTRICT
 REF.: F-98-130, WP-04-20
 PARCEL '811'
 HOWARD COUNTY, MARYLAND

DEVELOPER
 TRINITY QUALITY HOMES
 3675 PARK AVE., STE. 301
 ELLICOTT CITY, MARYLAND 21043
 (410) 480-0023

SCALE AS SHOWN
 SHEET 2 OF 7





ENLARGED VIEW OF PIPESTEM WIDTHS AT RAW
SCALE: 1"=20'

PLAN VIEW
SCALE: 1"=50'

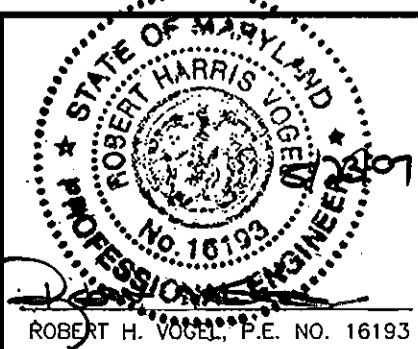
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] 6/2/15
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 6-18-07
CHIEF, BUREAU OF UTILITIES DATE

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ENGINEERS • SURVEYORS • PLANNERS
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ELLCOTT CITY, MD 21043 FAX: 410.461.8961



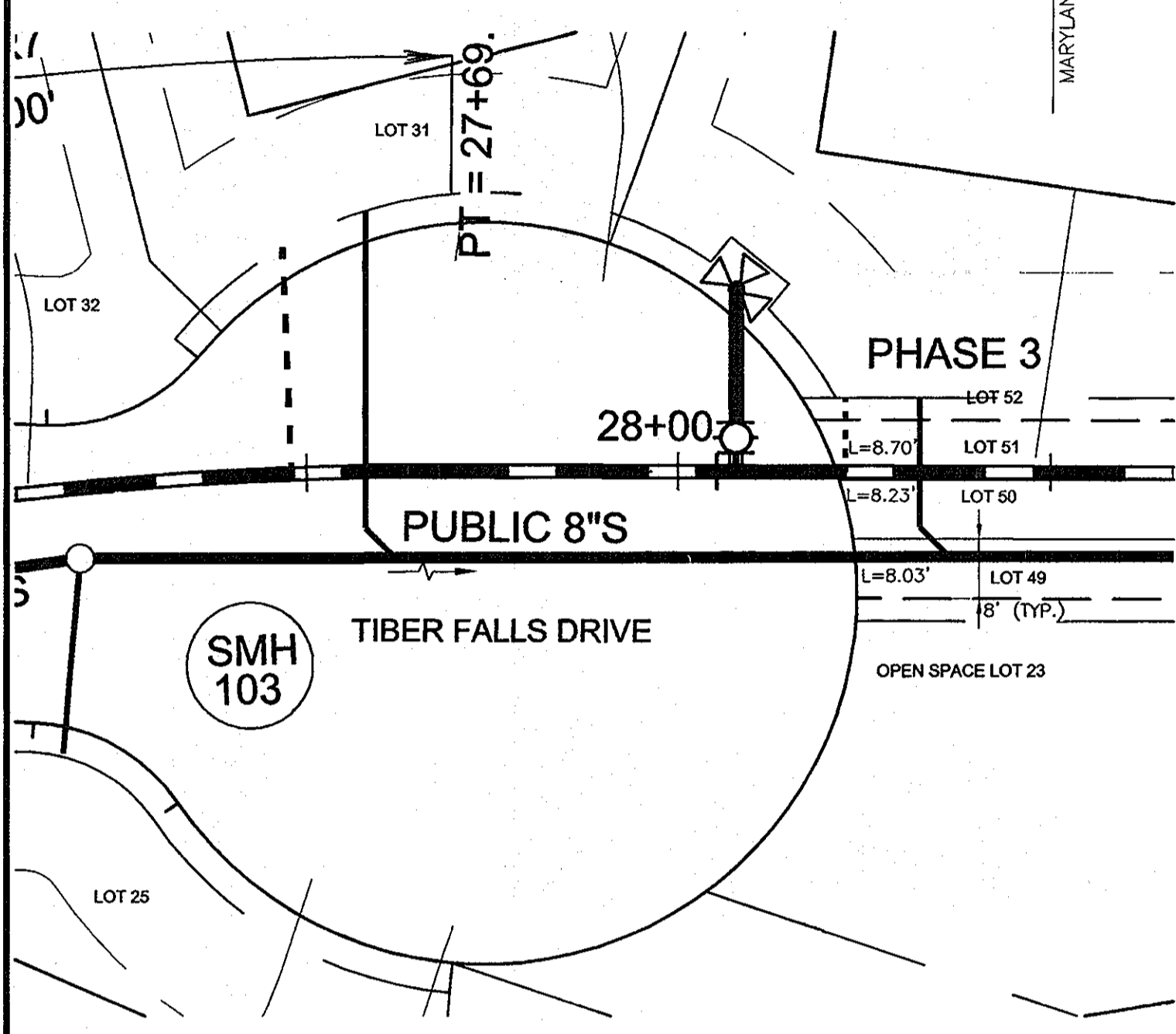
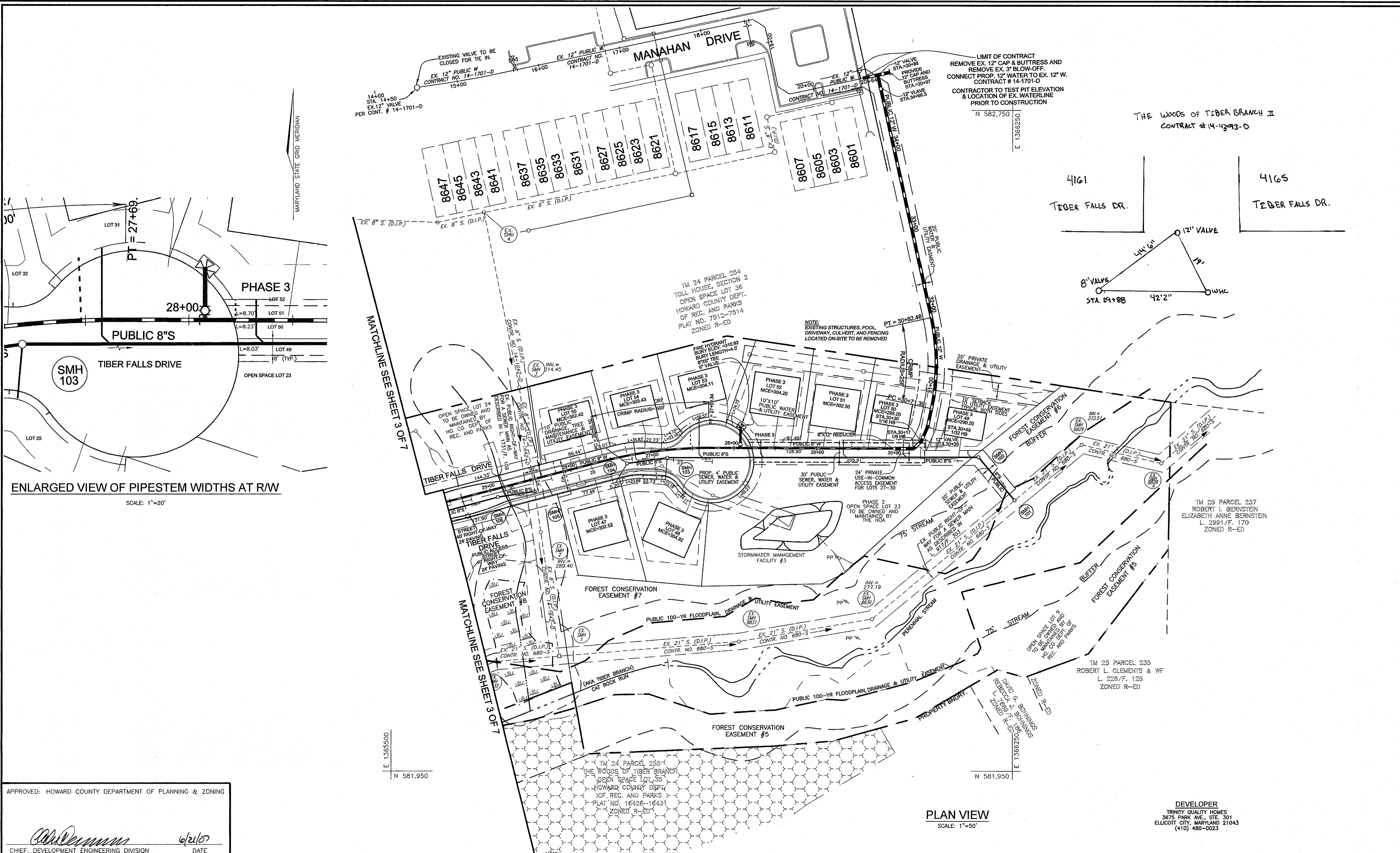
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DRAWN BY: RJ					
CHECKED BY: RHV					
DATE: MAY 2007	BY	NO	REVISION	DATE	

FINAL WATER & SEWER CONSTRUCTION PLAN
CONTRACT NO. 14-4393-D
600' SCALE MAP NO. 24 BLOCK NO. 18

THE WOODS OF TIBER BRANCH II - PHASE I, II & III
A RESUBDIVISION OF LOT 4 AS SHOWN ON A PLAT ENTITLED PLAT OF RESUBDIVISION LOT 4 & LOT 5 WURTZER PROPERTY SUBDIVISION OF TM PARCEL 881 RECORDED AS PLAT NO. 17414
TAX MAP 24 BLOCK 18 2ND ELECTION DISTRICT REF.: F-98-130, WP-04-20
PARCEL '811' HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 7

- NOTE PER F-06-201:**
1. ALL UTILITIES, ROADS, INFRASTRUCTURE TO BE CONSTRUCTED INITIALLY. ONLY CONSTRUCTION TO REMAIN FOR FUTURE PHASES ARE THE SINGLE FAMILY UNIT STRUCTURES ON THE FUTURE LOTS.
 2. ALL SEWER HOUSE CONNECTIONS ARE 4".
 3. ALL WATER HOUSE CONNECTIONS ARE 1".

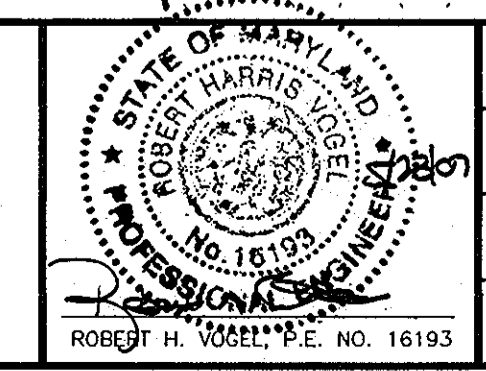


ENLARGED VIEW OF PIPESTEM WIDTHS AT R/W
SCALE: 1"=20'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 6/21/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 6-18-07
CHIEF, BUREAU OF UTILITIES DATE

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ELLCOTT CITY, MD 21043 FAX: 410.461.8961



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REVISION					
DATE					

PLAN VIEW
SCALE: 1"=50'

FINAL WATER & SEWER CONSTRUCTION PLAN
CONTRACT NO. 14-4393-D

600' SCALE MAP NO. 24 BLOCK NO. 18

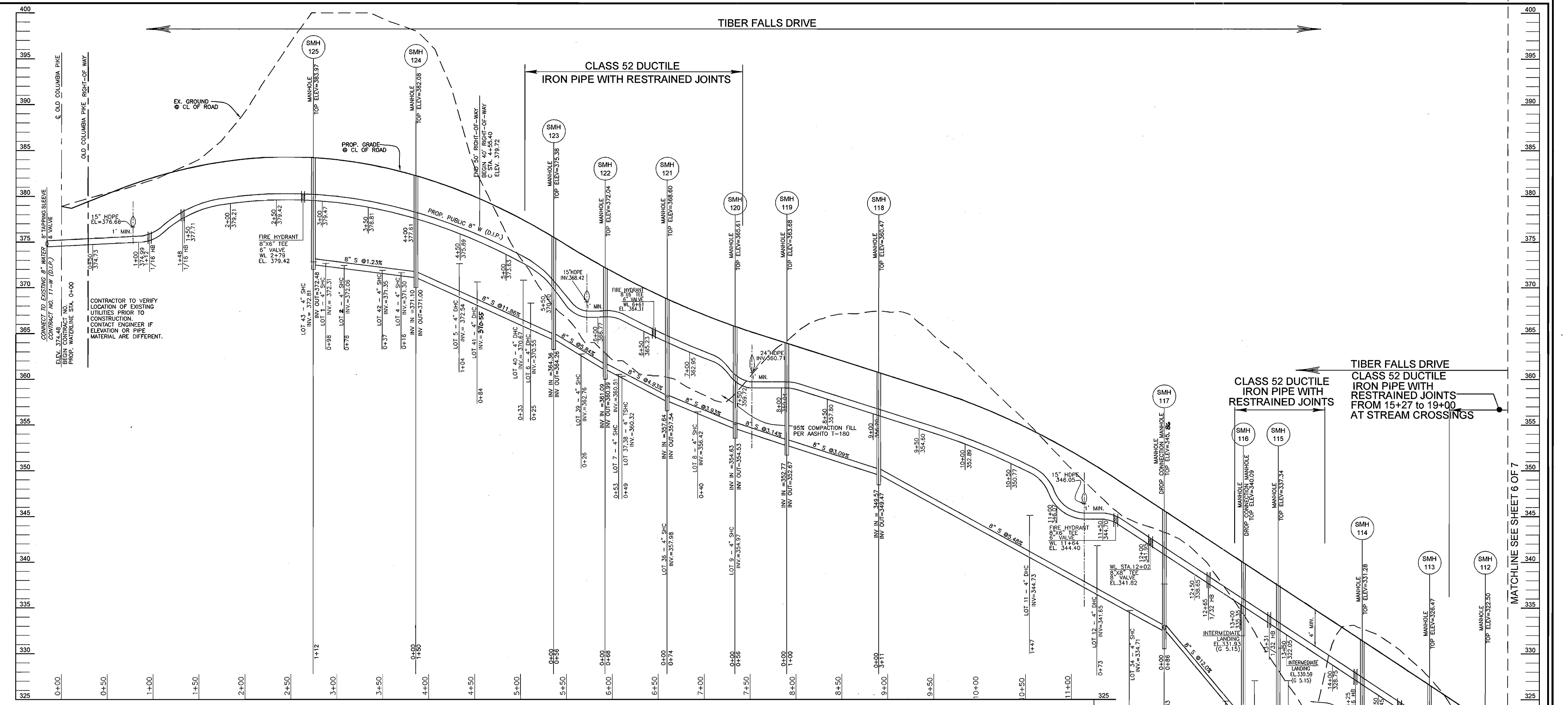
DEVELOPER
TRINITY QUALITY HOMES
3675 PARK AVE., STE. 301
ELLCOTT CITY, MARYLAND 21043
(410) 480-0023

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PLAT OF RESUBDIVISION LOT 4 & LOT 5 WURTZER PROPERTY
SUBDIVISION OF TM PARCEL 881
RECORDED AS PLAT NO. 17414

TAX MAP 24 BLOCK 18
2ND ELECTION DISTRICT
REF.: F-98-130, WP-04-20

PARCEL '811'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 7



NOTE:
 1. CLASS 52 DIP WITH RESTRAINED JOINTS WILL BE USED FOR ALL SECTIONS OF THE WATER MAIN IN FILL AREAS.

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

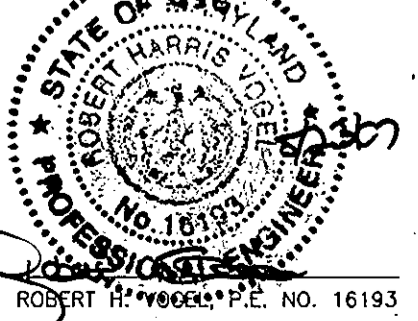
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 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 6/21/07

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

 CHIEF, BUREAU OF UTILITIES DATE 6-18-07

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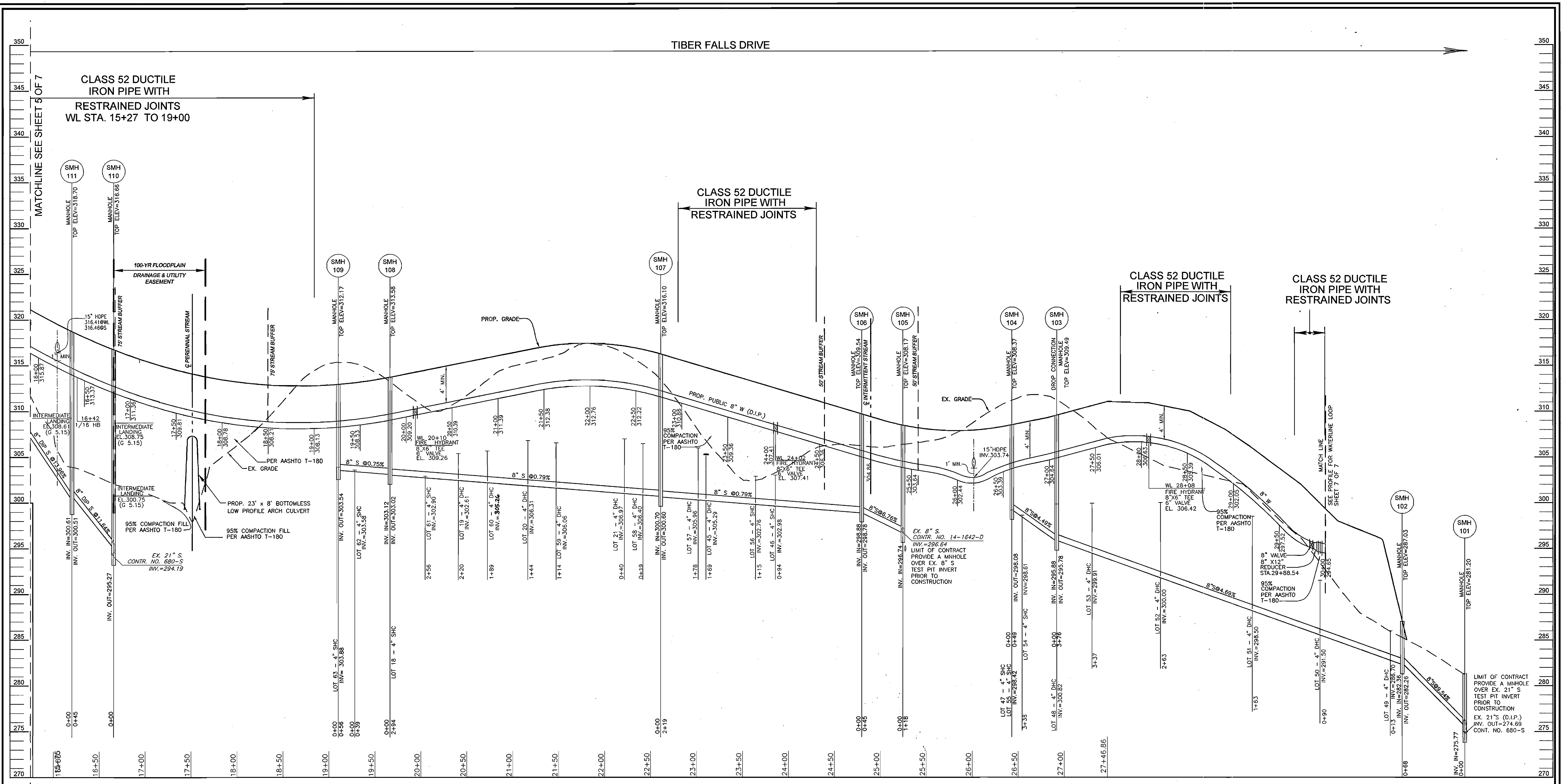
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FINAL WATER & SEWER CONSTRUCTION PLAN
 CONTRACT NO. 14-4393-D
 600' SCALE MAP NO. 24 BLOCK NO. 18

THE WOODS OF TIBER BRANCH II - PHASE I, II & III
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 TAX MAP 24 BLOCK 18 2ND ELECTION DISTRICT REF.: F-98-130, WP-04-20 PARCEL '811' HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 7

MATCHLINE SEE SHEET 6 OF 7



NOTE:
 1. CLASS 52 DIP WITH RESTRAINED JOINTS WILL BE USED FOR ALL SECTIONS OF THE WATER MAIN IN FILL AREAS.

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

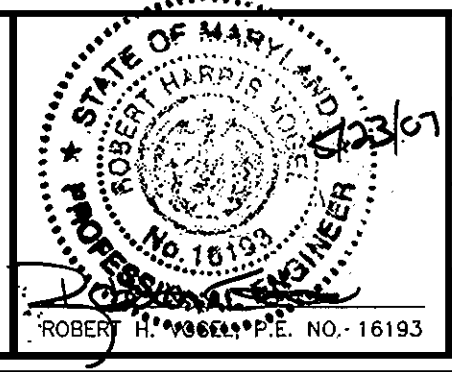
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[Signature] 6/2/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 6-18-07
 CHIEF, BUREAU OF UTILITIES DATE

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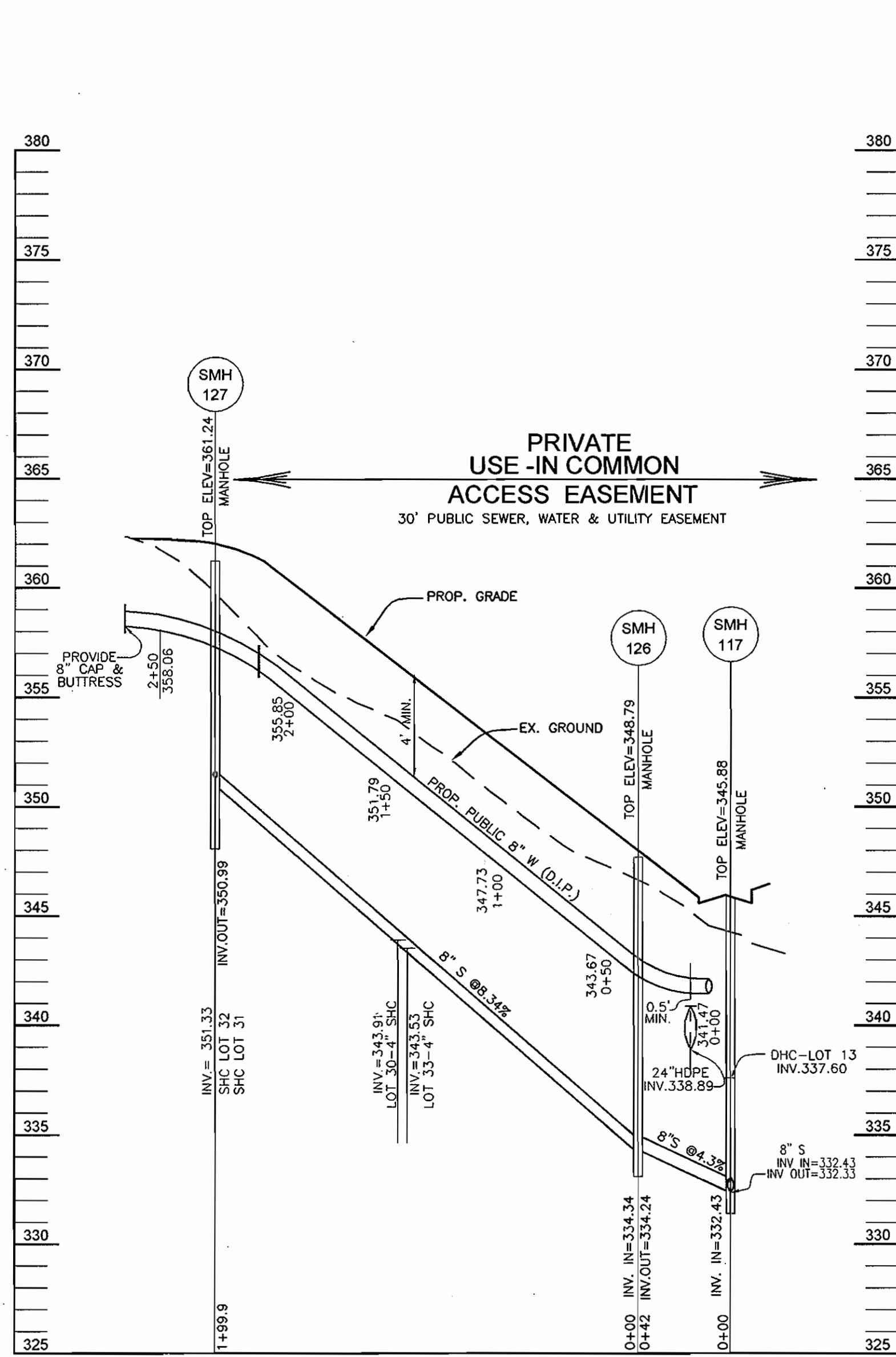


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DATE: MAY 2007					
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FINAL WATER & SEWER CONSTRUCTION PLAN
 CONTRACT NO. 14-4393-D
 600' SCALE MAP NO. 24 BLOCK NO. 18

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 TOWN MAP 24 BLOCK 18 2ND ELECTION DISTRICT REF.: F-98-130, WP-04-20 PARCEL '811' HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 6 OF 7



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

CRIMP	LENGTH	RADIUS	PC STA.	PT STA.
CR1	157.93'	343.00'	3+14.50	4+72.43
CR2	187.77'	450.00'	4+72.43	7+11.22
CR3	226.57'	320.02'	7+11.22	9+37.78
CR4	48.94'	500.00'	0+14.66	0+63.60
CR5	201.54'	400.00'	17+90.07	19+91.60
CR6	51.39'	280.00'	22+61.65	23+13.03
CR7	129.24'	500.00'	26+40.10	27+69.34

WL STA.	APPURTENANCE
WL STA. 0+00	TIBER FALLS DRIVE
WL STA. 1+12	8"XB" TAPPING SLEEVE & VALVE
WL STA. 1+48	1/16 HB
WL STA. 2+79	FIRE HYDRANT
WL STA. 6+61	FIRE HYDRANT
WL STA. 11+64	FIRE HYDRANT
WL STA. 12+02	8"XB" TEE & VALVE
WL STA. 12+65	1/32 HB
WL STA. 13+31	1/16 HB
WL STA. 14+25	1/16 HB
WL STA. 14+73	FIRE HYDRANT
WL STA. 15+02	1/16 HB
WL STA. 15+27	1/32 HB
WL STA. 15+68	1/32 HB
WL STA. 16+42	1/16 HB
WL STA. 20+10	FIRE HYDRANT
WL STA. 24+02	FIRE HYDRANT
WL STA. 28+08	FIRE HYDRANT
WL STA. 34+85	12" VALVE
WL STA. 2+05.84	8" CAP & BUTTRISS

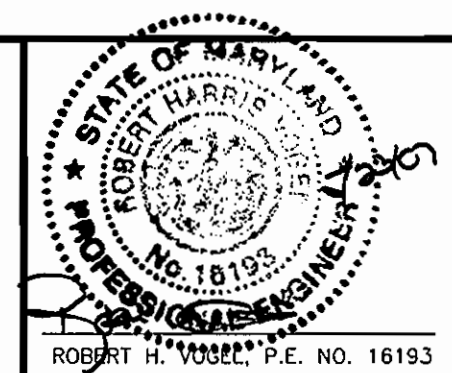
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 6/21/07

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF UTILITIES
DATE: 6-18-07

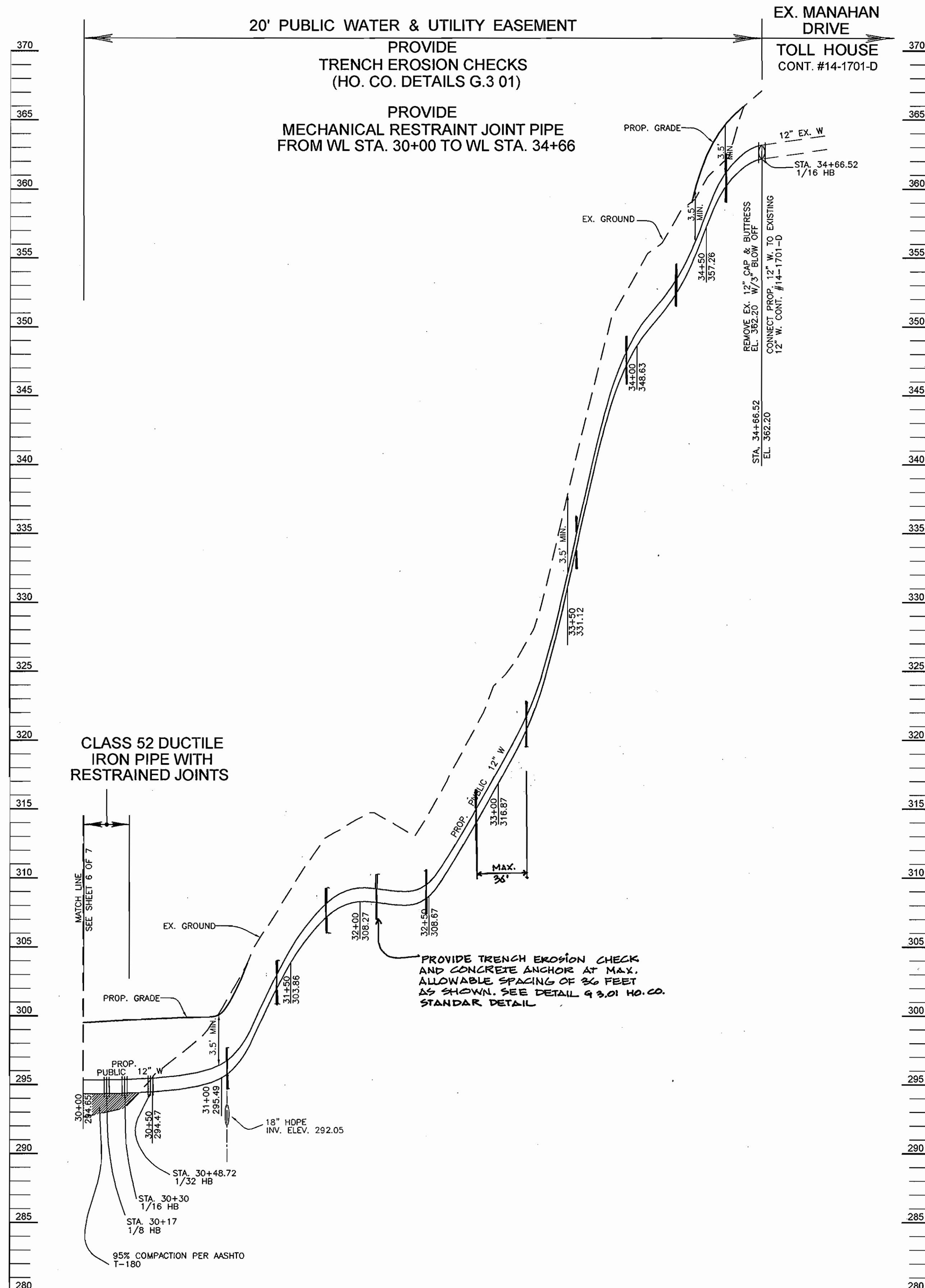
ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET, ELLICOTT CITY, MD 21043
TEL: 410.461.7666 FAX: 410.461.8961



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DRAWN BY: RJ	
CHECKED BY: RHV	
DATE: MAY 2007	
BY: NO	AS-BUILT DATA ADDED
REVISION	11-25-08

FINAL WATER & SEWER CONSTRUCTION PLAN
CONTRACT NO. 14-4393-D
600' SCALE MAP NO. 24 BLOCK NO. 18

THE WOODS OF TIBER BRANCH II - PHASE I, II & III
A RESUBDIVISION OF LOT 4 AS SHOWN ON A PLAT ENTITLED PLAT OF RESUBDIVISION LOT 4 & LOT 5 WURTZER PROPERTY SUBDIVISION OF TM PARCEL 881 RECORDED AS PLAT NO. 17414
TAX MAP 24 BLOCK 18 2ND ELECTION DISTRICT REF: F-98-130, WP-04-20
PARCEL '81' HOWARD COUNTY, MARYLAND
SCALE AS SHOWN SHEET 7 OF 7



PROFILE FOR A WATERLINE LOOP
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

LOT	FROM	TO	DISTANCE
1	W/C		
2	"	SMH 125	33.75'
3	"	SMH 124	43.4'
4	"	SMH 125	51.9'
5	"	SMH 124	74.9'
6	"	SMH 123	24.7'
7	"	W/C 42	55.6'
8	"	W/C 3	63.6'
9	"	SMH 123	96.8'
10	"	W/C 41	51'
11	"	W/C 6	77.5'
12	"	SMH 123	26'
13	"	W/C 39	81.3'
14	"	W/C 5	77.5'
15	"	SMH 122	33.3'
16	"	F.H.	17.8'
17	"	SMH 122	42.7'
18	"	SMH 121	37.3'
19	"	"	27'
20	"	W/C 8	11.9'
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LOT	FROM	TO	DISTANCE
32	W/C	SMH 127	29.75'
33	"	W/C 30	41'
34	"	SMH 126	95'
35	"	F.H.	34.5'
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