PARK OVERLOOK

PUBLIC WATER AND PUBLIC SEWER CONSTRUCTION PLANS

CONTRACT NO. 24-4774-D

ITEMS	QUANTITIES	AS-BUILT		
TIEMS	ESTIMATED	QUANTITIES	TYPE	MANUF./SUPPLIER
8" PVC C900 WATER (DR18)	710 LF	710 LF	NATIONAL	BRS
FIRE HYDRANTS (INCL. 8"X6" TEE & VALVE)	2 EA	ZEA	MUELLER Co.	RLS
8"x8" TS&V	2 EA	7.EA	MUELLER CO.	BRS
1.5" COPPER WHC 1.0" OUTSIDE METER	432 LF 27	437 L.F. 27	ROWAY IND	BRS BRS
				Bes
8" PVC SEWER (SDR 35)	387 LF	387 LF	NATIONAL	Bes
8" PVC SEWER (C900 DR18)	297 LF	297 LF	MATIONAL	Bes
MANHOLES	7 EA		ATLANTIC	BRS
TYPE 'B' DROP MH	1 EA	LEA	ATLANTIC	Bes
4" PVC SHC	408 LF	408 LF	NATIONAL	Bes

	SEWER HOUSE CON	NECTION AS-BUILT LO	CATION TABLE
LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	WASHINGTON AVENUE	15' TO SMH-7	24.5' TO LOT 2 SHC
2	WASHINGTON AVENUE	24.5' TO GOT! SHC	18' TO SMH-Z
3	WASHINGTON AVENUE	27.5' TO LOT 2 SHC	44.5' TO SMH-2
4	WASHINGTON AVENUE	29.5' TO SMH-4	26.5' TO LOT 5 SHC
5	WASHINGTON AVENUE	26.5' TO 10T4 SHC	24.5' TO LOT 6 SHC
6	WASHINGTON AVENUE	24.5' TO LOT 5 6HC	21' TO LOT 7 SHC
7	WASHINGTON AVENUE	21' TO LOT 6 SHC	25.5' TO LOT 8 SHC
8	WASHINGTON AVENUE	25.5' TO LOT 7 SHC	34.5' TO LOT 9 SHC
9	WASHINGTON AVENUE	34.5' TO GOT & SHC	31.5' TO LOT 10 SHK
10	WASHINGTON AVENUE	31.5' TO LOT 9 SHC	22' TO LOT 11 SHC
11	WASHINGTON AVENUE	221 TO LOT 10 SHC	20.5' TO GOT 17 SHC
12	WASHINGTON AVENUE	20.5' TO LOT 11 SHC	44 TO LOT 10 SHC
13	MAGGIES WAY	45' TO GOT 14 SAC	28' TO LOT SMH-5
1.4	MAGGIES WAY	45' TO LOT 13 SHC	5.5' TO LAT 15 SH
15	MAGGIES WAY	5.5' TO LOT 14 SHK	71.5' 78 SMH-6
16	MAGGIES WAY	3.5' TO LOT 17 SHC	38' TO SMH-6
17	MAGGIES WAY	3.5' TO LOT 16 SHC	35' TO SMH-6
18	MAGGIES WAY	47' TO LOT 17 SHC	34.5' TO SMH-6
19	MAGGIES WAY	20' TO CTS/BLOWDER	H' TO SMH-G
20	MAGGIES WAY	12' TO LOT 195HC	15.5' TO SMH-6
21	MAGGIES WAY	32' TO LOT 20 SHC	4' TO LOT 22 SHC
22	MAGGIES WAY	4' TO LOT 21 SHC	49.5' TO SAUF-G
23	MAGGIES WAY	40,5' TO SMH-5	11' TO GOT 24 SHC
24	MAGGIES WAY	11 TO LOT 23 SHC	29.5' TO LOT 26 SHC
25	MAGGIES WAY	225' TO SMH-5	4' TO LOT 26 SHC
26	MAGGIES WAY	4' TO LOT 25 SH(32' TO SMH-7
27	MAGGIES WAY	13' TO SMH-7	81.51 TO LOT 26 SH

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	WASHINGTON AVENUE	29' TO 25T 2 WHL	58.5' TO LOT 3 WHG
2	WASHINGTON AVENUE	27.5' TO LOT 3 WHC	58.5' TO F.H. 0+54
3	WASHINGTON AVENUE	22.5' TO LOT 2 WHL	36.5' TO F.H. 0+54
4	WASHINGTON AVENUE	55.5' TO EX. MH-1	26' TO LOT 5 WHC
5	WASHINGTON AVENUE	26.5' TO LOT 4 WHC	21' TO 10T 6 WHC
6	WASHINGTON AVENUE	72.5' TO LOT S WHC	2.5' TO LOT 7 WHC
7	WASHINGTON AVENUE	23' TO LOT 6 WHL	25.5' TO LOT & WHC
8	WASHINGTON AVENUE	22.5' TO LOT 7 WHS	38' TO LOT 9 WHC
9	WASHINGTON AVENUE	36.5' TO LOT B WHL	27.5' TO LOT 10 WHC
10	WASHINGTON AVENUE	28' TO LOT 9 WHK	21.5' TO GOT 11 WHC
11	WASHINGTON AVENUE	21.5' TO LOT 10 WHC	21.5' TO COT 12 CHO
12	WASHINGTON AVENUE	21,5' TO LOT 11 WHC	43' TO LOT 10 WHC
13	MAGGIES WAY	48' TO SMH -7	19" TO LOT HISHC
14	MAGGIES WAY	48' TO SMH - 7	19' TO LOT 14546
15	MAGGIES WAY	70' TO LOT IS SHC	25' TO LOT 14 SHC
16	MAGGIES WAY	ZO' TO LOT IS SHC	25' TO LOT 4 SHC
17	MAGGIES WAY	26' TO SMH-6	42' TO LOT IT SHC
18	MAGGIES WAY	26' TO SMH-6	42' TO 10T 19 SHC
19	MAGGIES WAY	17' 70 SMH-6	12' TO LOT A SHC
20	MAGGIES WAY	77' TO SMH-G	13.5' TO LOT 20 SHC
21	MAGGIES WAY	27' TO SMH-6	18.5' TO LOT 20 SHC
22	MAGGIES WAY	70' TO LOT 72 SHC	24' 70 LOT 21 SHC
23	MAGGIES WAY	26' TO COT 72 SHC	24' TO LOT 21 SAC
24	MAGGIES WAY	14.5'TO SWH-S	25' TO 65T 24 SHC
25	MAGGIES WAY	145' TO SMH-S	25' TO LOT 24 SHC
26	MAGGIES WAY	16' to SMH-7	12' TO LOT 27 SH
27	MAGGIES WAY	16' TO SWH-7	12' TO LOT 27 SHC

DEPARTMENT OF PLANNING AND ZONING

HOWARD COUNTY, MARYLAND

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT

CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT

SPECIFICATIONS AND AS PER F-13-093

DEPARTMENT OF PUBLIC WORKS

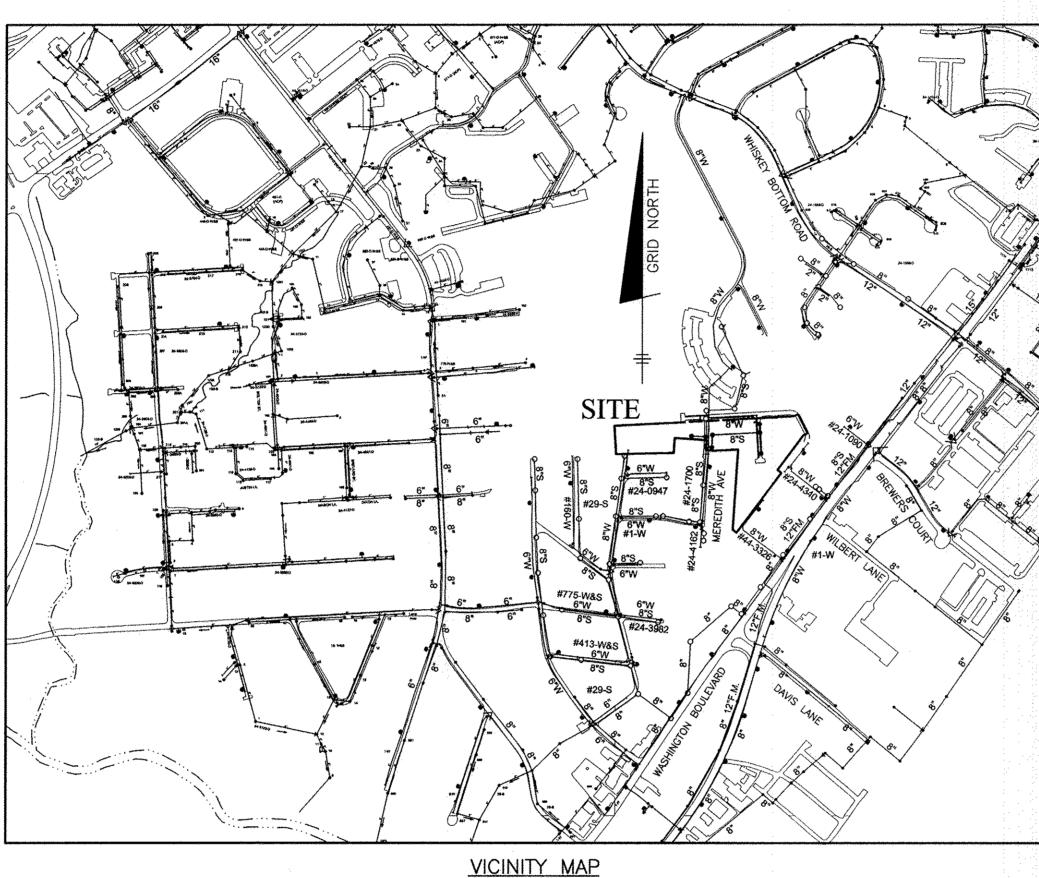
HOWARD COUNTY, MARYLAND

P:\2439 NLP BLOCK 5 LOTS 12-30\dwg\6000.dwg, 9/3/2013 9:14:01 AM

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED

IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD

LOT	FRONT
	ENSION
	HART
LOT	DIMENSION
1	27.00*
2	22.00'
3	27.00'
4	27.00'
5	22.00'
6	22.00'
7	22.00'
8	27.00'
9	27.00'
10	22.00'
11	22.00'
12	27.00'
13	27.00'
14	22.00'
15	22.00'
16	22.00'
17	22.00'
18	27.00'
19	27.00'
20	22.00'
21	22.00'
22	22.00'
23	27.00
24	27.00'
25	22.00'
26	22.00'
27	27.00'



SCALE: 1" = 600'

LEGEND			
	PROPOSED SEWER MAIN		
•	PROPOSED TERMINAL MANHOL		
	PROPOSED MANHOLE		
	PROPOSED SEWER HOUSE CONNECTION		
	PROPOSED WATER MAIN		
<u></u>	PROPOSED WATER HOUSE CONNECTION		
<u> </u>	PROPOSED FIRE HYDRANT		
·	PROPOSED VALVE		

TYPE OF BUILDING:	SFA
NO. OF LOTS/PARCELS/UNITS:	27
NUMBER OF SHC'S:	27
NUMBER OF WHC'S:	27
DRAINAGE AREA	LITTLE PATUXENT
WATER ZONE:	400
TEST GRADIENT:	550

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

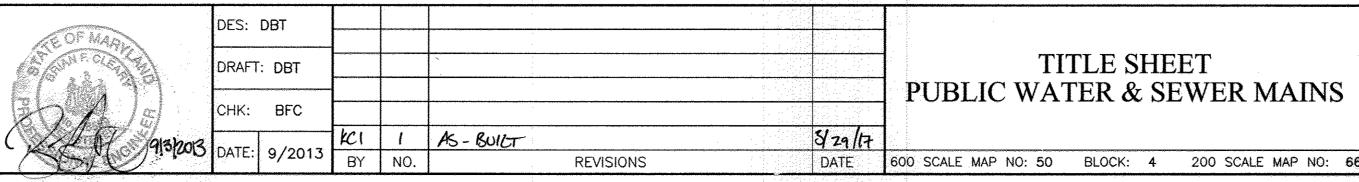
OWNER/DEVELOPER: PARK ÓVERLOOK, LLC 9695 NORFOLK AVENUE

WWW.BEI-CIVILENGINEERING.COM

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2015.

LAUREL, MARLAND 20723 410-792-2565

BENCHMARK ENGINEERS LAND SURVEYORS PLANNERS ENGINEERING, INC (P) 410-465-6105 (F) 410-465-6644 (P) 301-371-3505 (F) 301-371-3506



TITLE SHEET PUBLIC WATER & SEWER MAINS

WATER METER

HO. CO. STD.

1.5" COPPER WHO

1" WATER METER

HO. CO. STD. W-3.28

1.5" COPPER WHC

SEE HO. CO. STD. DETAIL W-3.28 FO SINGLE OUTSIDE METER SETTING

SEE DETAIL BELOW FOR TWIN OUTSIDE

METER SETTINGS

1-1/2" COPPER ----

CONCRETE VAULT: 30" INSIDE DIAMETER 30" HEIGHT

(ACTUAL DIAMETER IS 1" LARGER)

METER BOX FOR TWIN 1" METER SETTING

4. LOCATE BOX INSIDE GRASSY AREA

PUBLIC WATER,

SEWER & UTILITY

SEWER & UTILITY

EASEMENT -

CURB AND GUTTER

2222

2. FRAME AND COVER SHALL BE FORD AS3-TT WITH 15" LID (TWO HOLE) AND 20" O.D. FRAME

EXTENSION RING SHALL BE FORD EXT-4 HAVING 32" O.D. X 19.7" L.D.

SHEET INDEX

DESCRIPTION

TITLE SHEET PUBLIC WATER & SEWER MAINS

PLAN AND PROFILE VIEW PUBLIC WATER & SEWER MAINS

METERS 10

EASEMENT -

PUBLIC WATER,

SEWER & UTILITY

PUBLIC WATER,

SEWER & UTILITY

EASEMENT -

CURB AND GUTTER

EASEMENT -

4' CONC. SIDEWALK-

WATER MAIN

TYPICAL SINGLE WATER HOUSE

CONNECTION

w/FRONT SIDEWALK

(OUTSIDE METER SETTING)

WATER MAIN

TYPICAL SINGLE WATER HOUSE CONNECTION

NO SIDEWALK

(OUTSIDE METER SETTING)

NOT TO SCALE

1-1/2" COPPER -

CORPORATION COCK ASSEMBLY 11/2" PIPE OUTLET

WATER MAIN

...\DATA1\Draw_Meter\meterbox5.dgn 10/25/2011 12:16:51 PM

NO.

SERVICE SADDLE FORD F202 SERIES W/ CORPORATION TAP

PARK OVERLOOK LOTS 1 thru 27 AND OPEN SPACE LOTS 28-30

TAX MAP: 50 - BLOCK: 4 - PARCEL: p/o 414 &426 - ZONED: R-SC- ELECTION DISTRICT: (

CONTRACT NO. 24-4774-D

ADC MAP 40; GRID D7

PART I

WATER METER

SEE DETAIL THIS

1" WATER METER

SEE DETAIL THIS SHEET

-1.5" COPPER WHC

& BLEEDER (2)

GRANULAR BEDDING

4' CONC. SIDEWALK CURB AND GUTTER -1.5" COPPER WHC

WATER MAIN

TYPICAL TWIN WATER HOUSE

CONNECTION

w/FRONT SIDEWALK

(OUTSIDE METER SETTING)

WATER MAIN

TYPICAL TWIN WATER HOUSE

CONNECTION

NO SIDEWALK

(OUTSIDE METER SETTING)

NOT TO SCALE

1. 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

2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN MAY, 2007 BY SILL, ADCOCK & ASSOCIATES AND IN FEBRUARY, 2003 BY BENCHMARK ENGINEERING, 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.

ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON

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.

AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A

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

AT&T	
BGE (CONTRACTOR SERVICES)	410-637-8713
BGE (EMERGENCY)	
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533

...1-800-743-0033/410-224-9210

). TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT.

10. 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.

1. 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

PART II WATER

. ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH 5. 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 THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING

7. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.

(17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND

3. FORCE MAINS SHALL BE D.I.P. ONLY.

USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

VICINITY MAP SCALE: 1" = 2000' **GENERAL NOTES** 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED OF THE PLANS.

6. FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS

TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD

8. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE

9. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.

PART III SEWER

. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED. 2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

5. 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

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

SCALE: AS SHOWN

SHEET NO. 1 OF 2

