## PUBLIC WATER AND SEWER PLANS

# TURF VALLEY POD E-1

PHASE

LOTS 1-17, OPEN SPACE LOTS 73 & 74, GOLF SPACE LOTS 75 & 76, AND NON-BUILDABLE BULK PARCELS G,H, & I

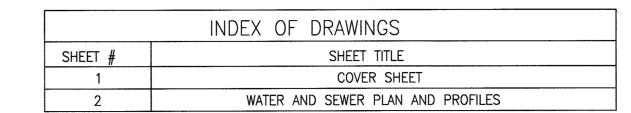
> SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT # 24-4979-D

CONTR #20-1071-D  CONTR #20-10	VERDI COMIR #20-1177-D  CONTR #20-1177-D
TYPE OF BUILDING:  NO. OF LOTS/PARCELS:  NO. OF WATER HOUSE CONNECTIONS:  NO. OF SEWER HOUSE CONNECTIONS:  SEWER SHED:  TREATMENT PLANT:  PATAPSCO  PATAPSCO	WATER & SEWER LINGUISMATION  TEST GRADIENT 907  TEST PRESSURE 203 psi
LOC	CATION MAP

SCALE:1"=600°

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	<u>LEGE</u>	<u>ND</u>		
	EX. SANITARY SEWER MANHOLE		RIGHT OF WAY LINE	LUCTE
ф	EX. WATER VALVE		EASEMENT LINE	NOTE:
<b>⋈</b>	EX. FIRE HYDRANT	•	PROP. SANITARY MANHOLE	1. ALL WATER HOUSE CONNECTIONS SHALL BE 1.5" WITH A 1" METER (OUTSIDE SETTING) UNLESS
₩	EX. LIGHT POLE	<b>\$</b>	PROP. WATER VALVE	OTHERWISE NOTED ON THE PLANS.
	— EX. SANITARY SEWER MAIN	₩	PROP. FIRE HYDRANT	2. ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC UNLESS OTHERWISE NOTED IN THE PLANS.
	— EX. WATER MAIN	<u> </u>	PROP. SANITARY SEWER MAIN	FYC DIVLESS OTHERWISE NOTED IN THE PEARS.
			PROP. WATER MAIN	
			PROP. SEWER HOUSE CONNECTION &	CLEANOUT
			PROP. WATER HOUSE CONNECTION &	c METER
			PROP. STORM DRAIN	
			PROP. CURB	



BENCHMARKS						
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION		
16IB	590,475.2538	1,344,753.9350	469.892	11.5' SOUTHWEST OF WBL RT. 40, 20.8' WEST OF PK NAIL IN SHOULDER, 66.4' SOUTH OF LAST POST IN GUARDRAIL		
16IA	589,509.366	1,346,343.63	463.797	RT. 40, 0.35 MI WEST OF RT. 144 JOINT		

# HOWARD COUNTY, MARYLAND ADC MAP 4815 GRID A3

VICINITY MAP SCALE: 1"=2000'

### WATER NOTES

- 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON
- 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.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 7. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN
- 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 TEST RECORDS
- 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. SEVENTEEN (17) IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
- 10. PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.
- 11. ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFECTION COUPLING OR 5-DEGREE SWEEP. TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFECTION OF 3-DEGREES (11/2-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL.
- 12. WHEN PVC HIGH DEFECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED 1. ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED. TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE 2. ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL
- 13. ALL WATER HOUSE CONNECTIONS SHALL BE 1.5" WITH A 1" METER, OUTSIDE

BLOCK: 16

## 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 T THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 2. TOPOGRAPHIC FIELD SURVEYS WERE BASED ON WINGS AERIAL MAPPING CO., INC. WI 2 FOOT CONTOUR INTERVAL ON OR ABOUT JANUARY, 2006.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON TH DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 171C. NO. 18G1. CONTROLS ARE BASED ON NAVD '88. VERTICAL

CONTROLS PROVIDED ON THE DRAWINGS ARE BY KCI TECHNOLOGIES, INC. AND 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 ON
- 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 DRAWING, 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 COPY OF VOLUME IV ON THE JOB.
- 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 A LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	410-637-8713
BGE (EMERGENCY )	410-685-0123
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

- 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.
- 10. 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.
- 11. 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.

## SEWER NOTES

- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-17-096-095 DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT

CONTROL BY HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION

WATER QUANTITIES

SEWER QUANTITIES

SUPPLIER

472

430

8" DIP WATER, CLASS 54

1.5" WHC

1" METER (OUTSIDE SETTING)

6" FIRE HYDRANT & VALVE

8" x 6" FIRE HYDRANT TEE

**ITEM** 

8" PVC DR35

4" SHC

SEWER MANHOLE

DOGHOUSE MANHOLE

ADDRESS

2502 VIVALDI LANE

2504 VIVALDI LANE

2506 VIVALDI LANE

2508 VIVALDI LANE

2516 VIVALDI LANE

2518 VIVALDI LANE

2520 VIVALDI LANE

2522 VIVALDI LANE

2505 VIVALDI LANE

2507 VIVALDI LANE

2509 VIVALDI LANE

2511 VIVALDI LANE

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ADDRESS

2502 VIVALDI LANE

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2506 VIVALDI LANE

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2511 VIVALDI LANE

2515 VIVALDI LANE

2517 VIVALDI LANE

2519 VIVALDI LANE

2521 VIVALDI LANE

2523 VIVALDI LANE

CLEANOUT

LOT NUMBER

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 8

LOT 9

LOT 10

LOT 11

LOT 12

LOT 13

LOT 14

LOT 15

LOT 16

LOT 17

LOT NUMBER

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 8

LOT 9

LOT 10

LOT 11

LOT 12

LOT 13

LOT 14

LOT 15

LOT 16

LOT 17

ESTIMATE | UNIT

|ESTIMATE | UNIT

2

17

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOCATION DIMENSION 1

LOCATION DIMENSION

LF

LF

EΑ

EΑ

EΑ

EΑ

EΑ

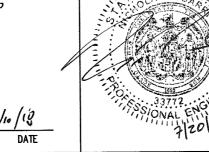
EΑ

AS-BUILT

AS-BUILT

LOCATION DIMENSION 2

LOCATION DIMENSION 2



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. 33772, EXPIRATION DATE: 6/16/2019

TECHNOLOGIES

SCIENTISTS  $C_{
m ONSTRICTION\ MANAGERS}$ 936 RIDGEBROOK ROAD Sparks, MD 21152 PHONE: (410) 316-7800 Fax: (410) 316-7817 www.kci.com

REVISION 05-07-2018 BY NO.

COVER SHEET

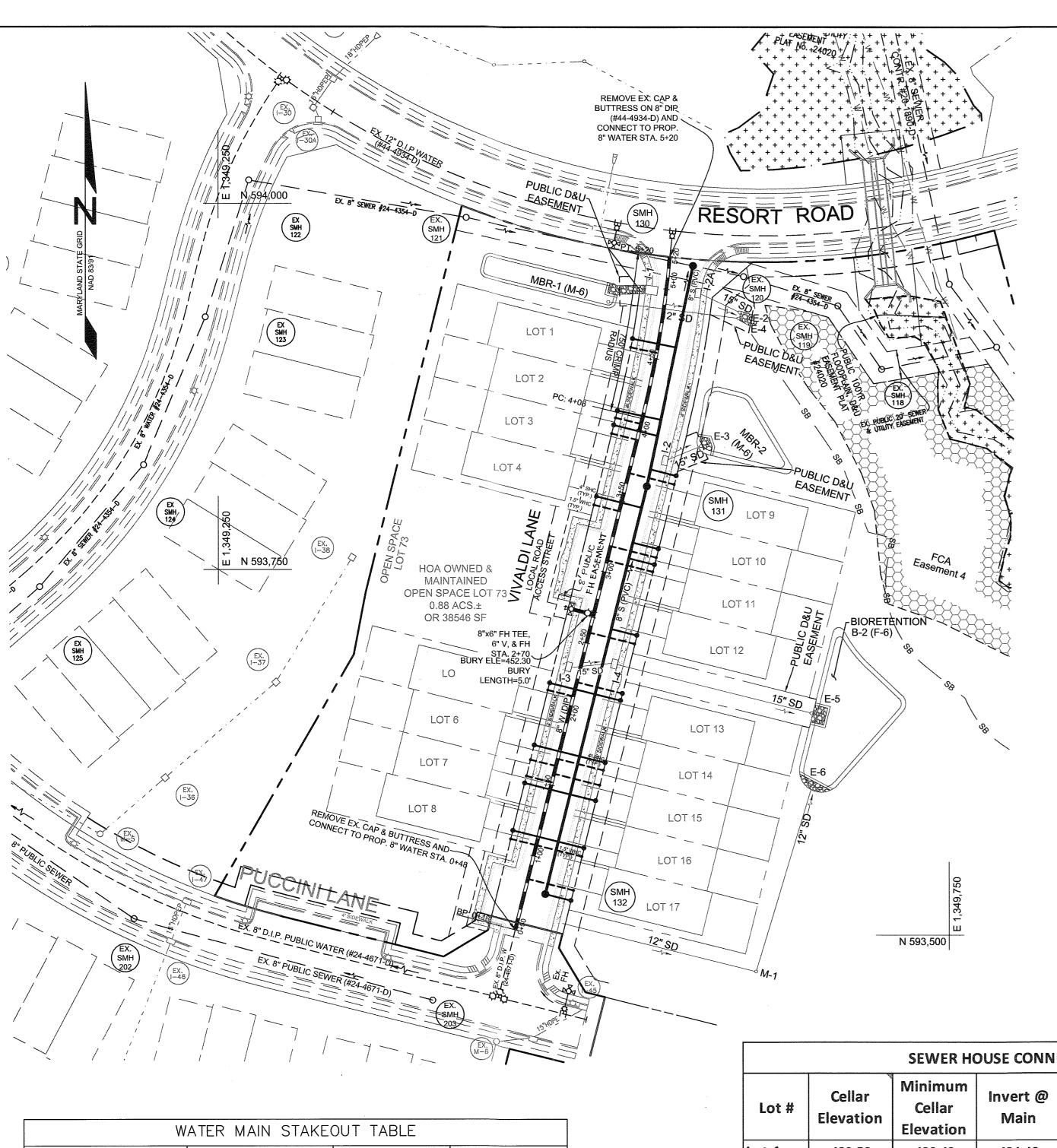
600' SCALE MAP NO.: <u>16</u>

CONTRACT # 24-4979-D LOTS 1-17, OPEN SPACE LOTS 73 AND 74. GOLF SPACE LOTS 75 AND 76 AND NON-BUILDABLE BULK PARCELS G, H, AND I A SUBDIVISION OF P/O PARCEL 706. NON-BUILDABLE BULK PARCELS "A" AND "B" BLUFFS AT TURF VALLEY, PLAT NO. 24021, & NON-BUILDABLE BULK PARCELS "E" AND "F" FAIRWAYS AT TURF VALLEY PH II,

TAX MAP 17 GRID 13, ZONED: PGCC HOWARD COUNTY, MARYLAND ELECTION DISTRICT NO. 2

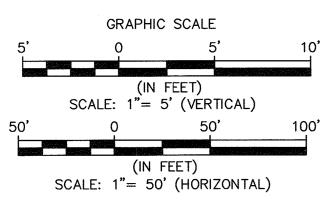
SHEET <u>1</u> OF <u>2</u>

AS SHOWN



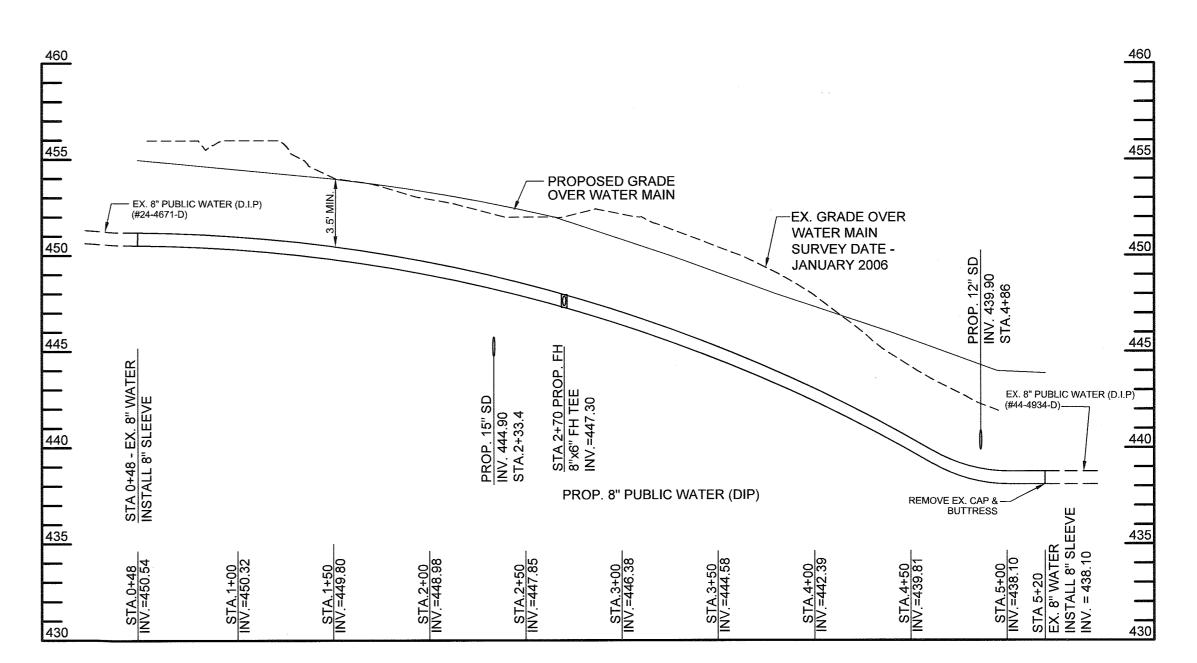
	WATER MAIN STAKES	OUT TABLE	
LOCATION	ITEM	NORTHING	EASTING
	VIVALDI LANI	_	•
STA. 0+48	CONNECT TO 8" W	593503.90	1349452.91
STA. 4+08	PC	593853.14	1349540.31
STA. 5+20	PT; CONNECT TO 8"	593963.49	1349559.35

	SEWER STRUCTURE TABLE						
ITEM	NORTHING	EASTING	TOP ELEV.	INV. IN ELEV.	INV. OUT ELEV.	HOWARD COUNTY STD. DETAIL	
	VIVALDI LANE						
SMH 132	593528.19	1349473.41	454.54	-	442.70	G-5.12	
SMH 131	593806.86	1349543.26	448.56	437.03	436.90	G-5.12	
SMH 130	593957.36	1349575.16	443.12	432.95 425.40	425.30	G-5.14 (TYPE B)	



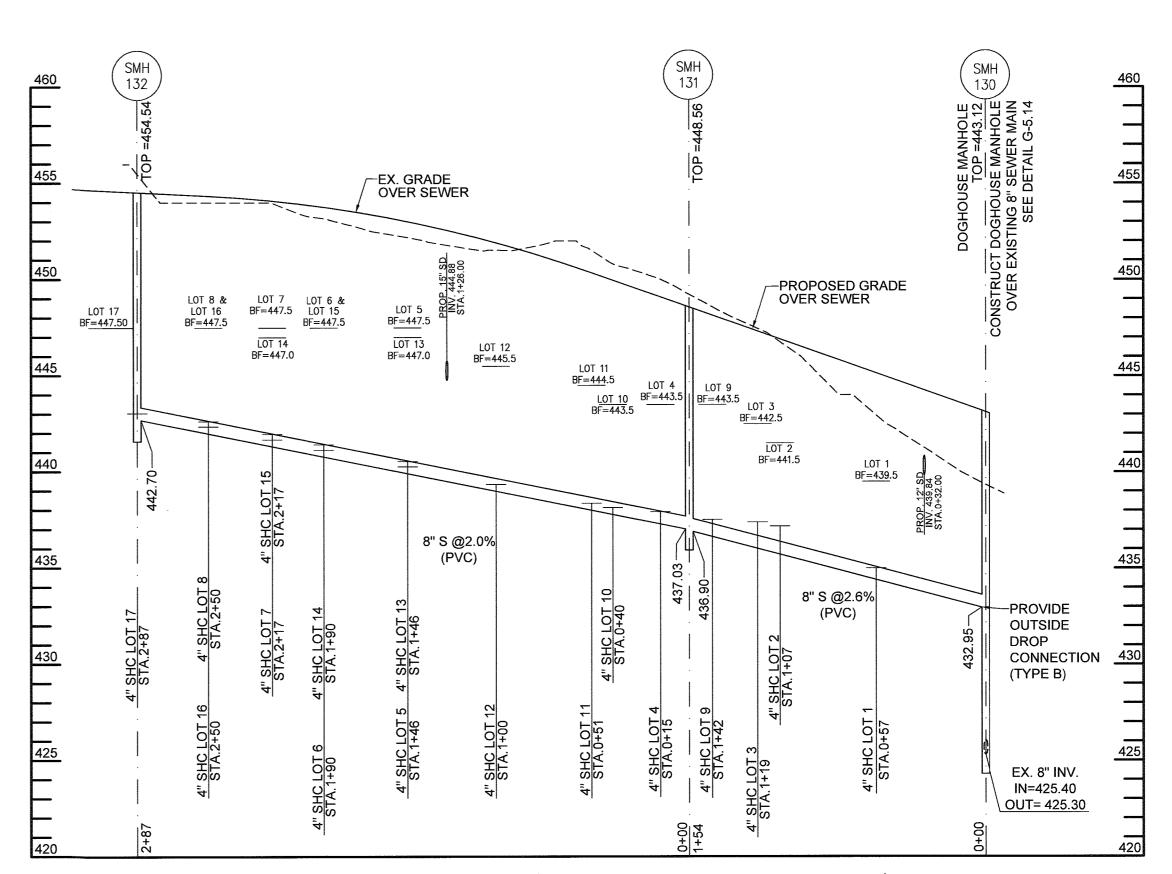
SEWER HOUSE CONNECTION SCHEDULE							
Lot #	Cellar Elevation	Minimum Cellar Elevation	Invert @ Main	Invert @ R/W or Esmt Line	Drop Connection ?	DHC Standpipe Height	
Lot 1	439.50	439.42	434.40	435.00	-		
Lot 2	441.50	441.46	436.56	437.18	-		
Lot 3	442.50	441.67	436.77	437.39	-		
Lot 4	443.50	442.29	437.29	437.93	-		
Lot 5	447.50	444.92	439.92	442.56	Yes	2.00	
Lot 6	447.50	445.71	440.79	441.43	-		
Lot 7	447.50	446.25	441.33	441.97	-		
Lot 8	447.50	447.00	442.00	442.64	-		
Lot 9	443.50	441.88	437.16	437.52	-		
Lot 10	443.50	442.43	437.79	438.15	-		
Lot 11	444.50	442.65	438.01	438.37	-		
Lot 12	445.50	443.72	439.00	439.36	-		
Lot 13	447.00	444.64	439.92	440.28	Yes	2.00	
Lot 14	447.00	445.43	440.79	441.15	-		
Lot 15	447.50	445.97	441.33	441.69	-		
Lot 16	447.50	446.64	442.00	442.36	-		
Lot 17	447.50	447.42	442.70	443.06	-		

NOTE: ALL DROP CONNECTIONS ARE HOWARD COUNTY STD. DETAIL S-2.12 TYPE "A"



PUBLIC WATER PROFILE (VIVALDI LANE)

SCALE 1"=50' H, 1"=5' V

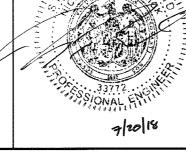


SEWER MAIN PROFILE (SMH 130 TO SMH 132) SCALE 1"=50' H, 1"=5' V

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION



NO SEMARY

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. 33772, EXPIRATION DATE: 6/16/2019

PHONE: (410) 316-7800 FAX: (410) 316-7817

TECHNOLOGIES

	Engineers Planners Scientists Construction managers
T	936 Ridgebrook Road Sparks, MD 21152

www.kci.com

	DESIGN:					
	JI.					
	DRAWN:					WATER & SEWER
GERS	SK					PLAN AND PROFILES
AD	CHECKED:					PLAN AND PROFILES
2	NB					
300	DATE:					
. ,	05-07-2018	BY	NO.	REVISION	DATE	600' SCALE MAP NO.: <u>16</u> BLOCK: <u>16</u>

TURF VALLEY, POD E-1, PHASE I CONTRACT # 24-4979-D

AS SHOWN LOTS 1-17, OPEN SPACE LOTS 73 AND 74, GOLF SPACE LOTS 75 AND 76
AND NON-BUILDABLE BULK PARCELS G, H, AND I A SUBDIVISION OF P/O PARCEL 706, NON-BUILDABLE BULK PARCELS "A" AND "B" BLUFFS AT TURF VALLEY, PLAT NO. 24021, & NON-BUILDABLE BULK PARCELS "E" AND "F" FAIRWAYS AT TURF VALLEY PH II,

PLAT NO. 29294 TAX MAP 17 GRID 13, ZONED: PGCC

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ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND