PUBLIC WATER AND SEWER PLANS

FOR

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, &

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

| RESORT RO OUNE PLANT OF LOTIS PARCELS: NO OF WATER HOUSE CONNECTIONS: 17 WATER & SEWER WATE | R-LINFORMATION 830 907 |
|--|--------------------------|
| SEWER SHED: TREATMENT PLANT: PATAPSCO PATAPSCO LOCATION MAP | |
| SCALE:1"=600" | |

| | <u>LEGEI</u> | <u>ND</u> | | |
|---------------------------------------|--|-----------|--|---|
| — — — — — — — — — — — — — — — — — — — | EX. SANITARY SEWER MANHOLE EX. WATER VALVE EX. FIRE HYDRANT EX. LIGHT POLE EX. SANITARY SEWER MAIN EX. WATER MAIN | | RIGHT OF WAY LINE EASEMENT LINE PROP. SANITARY MANHOLE PROP. WATER VALVE PROP. FIRE HYDRANT PROP. SANITARY SEWER MAIN | NOTE: 1. ALL WATER HOUSE CONNECTIONS SHALL BE 1.5" WITH A 1" METER (OUTSIDE SETTING) UNLESS OTHERWISE NOTED ON THE PLANS. 2. ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC UNLESS OTHERWISE NOTED IN THE PLANS. |
| | | | PROP. WATER MAIN PROP. SEWER HOUSE CONNECTION & PROP. WATER HOUSE CONNECTION & PROP. STORM DRAIN PROP. CURB | |

| | INDEX OF DRAWINGS | |
|---------|-----------------------------------|--|
| SHEET # | SHEET TITLE | |
| 1 | COVER SHEET | |
| 2 | WATER AND SEWER PLAN AND PROFILES | |

| 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 | |

TURF VALLEY RESIDENTIAL HOWARD COUNTY, MARYLAND ADC MAP 4815 GRID A3

VICINITY MAP

WATER NOTES

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

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

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

5. 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

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

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) 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.

13. ALL WATER HOUSE CONNECTIONS SHALL BE 1.5" WITH A 1" METER, OUTSIDE SETTING.

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 SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. 2. TOPOGRAPHIC FIELD SURVEYS WERE BASED ON WINGS AERIAL MAPPING CO., INC. WIT

GENERAL NOTES

HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON TH

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).

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.

CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0

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 THI 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 NO BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE O 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:

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 | 1-800-257-777 |
| STATE HIGHWAY ADMINISTRATION | .410-531-5533 |
| VERIZON | 1-800-743-003 |
| | |

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

3. 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 SERVED.

AS BUILTS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-17-096-19 DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT

CONTROL BY HOWARD SOIL CONSERVATION DISTRICT

CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

WATER QUANTITIES

SEWER QUANTITIES

17

LOCATION DIMENSION :

99, 25' FROM SMH 131 TO WHE LOT!

71.001 FR. SMN 131. TO WHE LOT 2

45.67' FR. SMH 131 TO WHC LOT 3

29.00' FR, SMH 131 TO WHC LOT 4

51.171 FR. F.H. TO WHC LOT 5

87.0 FR. F.H. TO WHC LOT 6

88,9' FR. 5MN 132 TO WAG LOT?

57.2' FR. SMH 132 TO WHC LOT 8

20.0' FR. SMH 131 TO WHC LOT 9

29, 17 FR SMH 131 TO WHC LOT 10

55,5 FR SMN 131 TO WHG LOT !!

84,33 FR, SMH 131 TO WHE LOT 12

84.4" FR. SMH 132 TO WHG LOT 15

36.0° FR. SMH 132 TO WHC LOT 16 26.0° FR. SHC LOT 16 TO WHC LOT 16

18,4' FR, SMH 132 TO SHC LOT 17 | 25,2' FR. WHC LOT 17 TO SHC LOT 17

28.8' FR. SMH 132 TO WHC LOT 17 | 25.2' FR. SHC LOT 17 TO WHC LOT 17

67.7' FR. F.H. TO WHC LOT 13

99, 3' FR. F.H. TO WHC LOT 14

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOCATION DIMENSION 1

104,2' FR. SMH 131 TO SHG LOT 1

75.6' FR, SMH 131 TO SHC LOT 2

50.4' FR. SMH 131TO SHC LOT 3

32.67 FR. SMH 131 TO SHC LOT 4

57.25' FR. F.H. TO SHC LOT 5

82.8' FR. F.H. TO SHC LOT 6

83.0' FR. SMH 132 TO SHC LOT?

62.0° FR. SNY 132 TO SHC LOT &

24.17' FR. SMU 131 TO SUC LOT 9

26,17' FR, SMU 131 TO SHC LOT 10

49.0' FR. SMH 131 TO SHC LOT 11

79.9' FR. SMH 131 TO SHC LOT 12

63.0' FR. F.H. TO SHC LOT 13

90. d' FR. F.H. TO SHC LOT 14

89.5' FR. SMH 132 TO SHC LOT 15

60.7' FR. SNH 132 TO SHC LOT 16

CHIEF, DEVELOPMENT ENGINEERING DIVISION

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

472

430

SUPPLIER

CAMBRIDGE LEE PRIOM PRECAST/ A.V. MCDOHALT

SUPPLIER

G.P.K. NATIONAL PIPE

G.P.K. NATIONAL PIPE

PRISM PRECAST

8" DIP WATER, CLASS 54

1.5" WHC

1" METER (OUTSIDE SETTING)

6" FIRE HYDRANT & VALVE

ITEM

8" PVC DR35

4" SHC

SEWER MANHOLE

DOGHOUSE MANHOLE

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 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

8" x 6" FIRE HYDRANT TEE | STAR PIPE PRODUCTS

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

2515 VIVALDI LANE

2517 VIVALDI LANE

2519 VIVALDI LANE

2521 VIVALDI LANE

2523 VIVALDI LANE

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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ESTIMATE | UNIT

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AS-BUILT

AS-BUILT

LOCATION DIMENSION 2

5,5' FR. SHE LOT 1 TO WHE LOT !

5.1' FR. SHC LOT 2 TO WHC LOT 2

6.2' FR SHC LOT 3 TO WHC LOT 3

24.3' FR. SHC LOT 4 TO WHC LOT 4

6.25 FR. SHC LOT 5 TO WAC LOT 5

5.30' FR. SHC LOT 6 TO WHC LOT 6

7.40'FR SHC LOT 7 TO WHE LOT 7

5.60' FR. SHC LOT 8 TO WHG LOT 8

6.90' FR. SHC LOT 9 TO WHC LOT 9

6.40 TO SHC LOT 10 TO WHC LOT 10

6.80' FR. SHC LOT 11 TO WHC LOT 11

6.0' FR. SHC LOT 12 TO WHG LOT 12

7.1' FR. SHC LOT 13 TO WHC LOT 13

10.6' FR. SHC LOT 14 TO WHC LOT 10

5.8 FR. SHC LOT 15 TO WHC LOT 15

LOCATION DIMENSION 2

5.5' FR. WHC LOT 1 TO SHG LOT 1

5.1' FR. WHC LOT 2 TO SHC LOT 2

6.2' FR. WHC LOT 3 TO SHC LOT 3

24.3' FR. WHC LOT 4 TO SHC LOT 4

6.25 R WHC LOT 5 TO SHC LOT 5

5,30' FR. WHC LOTG TO SHC LOTG

7.4' FR. WHC LOT 7 TO SHC LOT ?

5.6 FR. WHC LOT 8 TO SHC LOT 8

6.9' FR. WHC LOT 9 TO SHC LOT 9

6.4' FR. WHC LOT 10 TO SHC LOT 10

68 FR. WHC LOT 11 TO SHC LOT 11

6.0' FR. WHC LOT 12 TO SHC LOT 12

7.1' FR. WHC LOT 13 TO SHC LOT 13

LO, O' FR. WHE LOT 14 TO SHC LOT 14

5.8' FR. WHC LOT 15 TO SHC LOT 15

26.0' FR. WHC LOT 16 TO SHC LOT 16

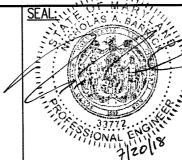
441.01

416.3

468,301

413, 27

17



HFRFRY CERTIFY THAT THESE DOCUMENTS WERE PREPARED O APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 3377 EXPIRATION DATE: 6/16/2019

| | ENGII PLANI SCIEN |
|-----|--------------------------|
| KCI | 936 Si Phon Fax |

INFERS NNERS NTISTS STRUCTION MANAGERS 36 RIDGEBROOK ROAD SPARKS, MD 21152 DNE: (410) 316-7800 x: (410) 316-7817 www.kci.com

05-07-2018

BY

REVISION

COVER SHEET

600' SCALE MAP NO.: 16

BLOCK: 16

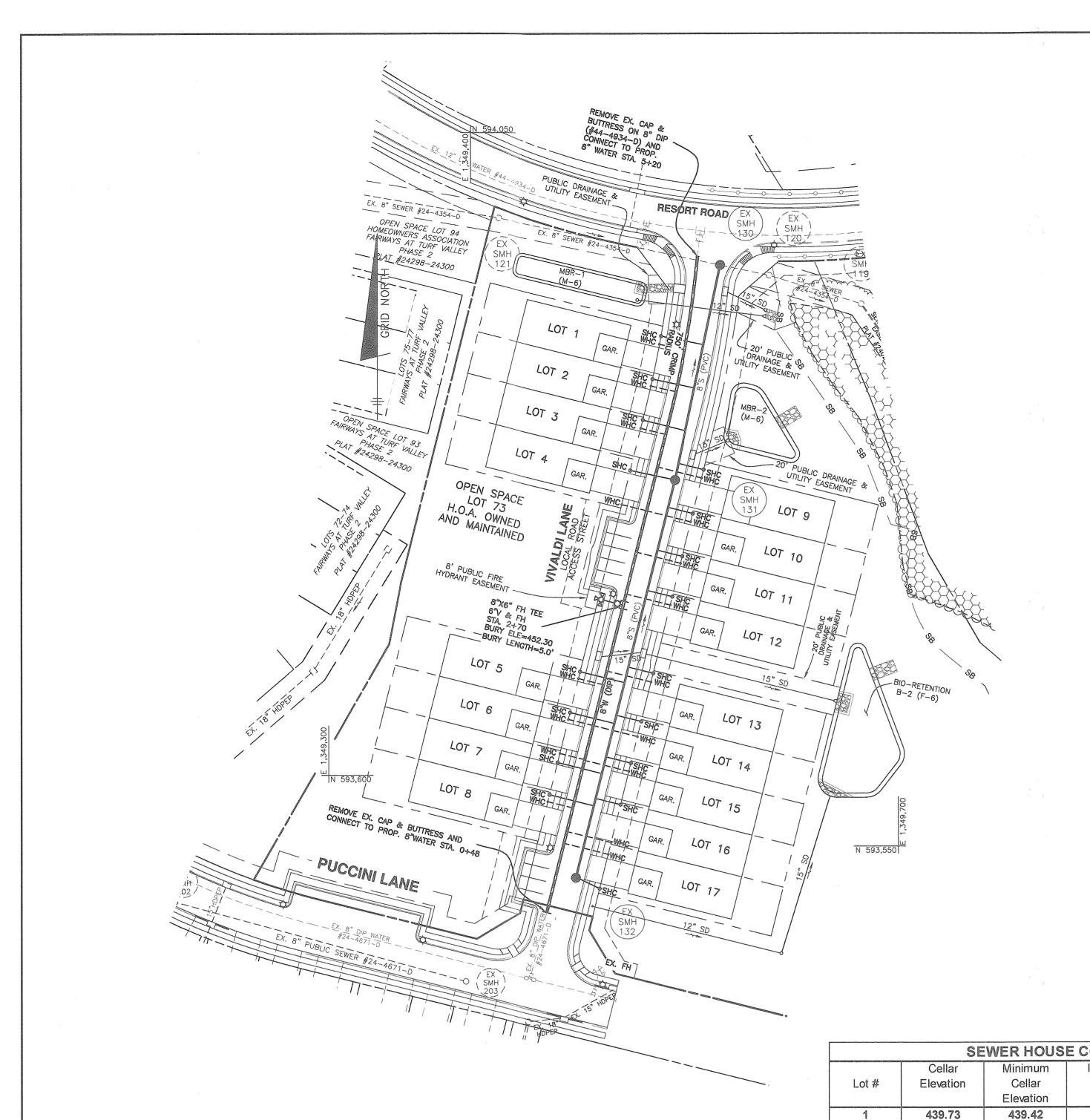
CONTRACT # 24-4979-D LOTS 1-17, OPEN SPACE LOTS 73 AND 74, GOLF SPACE LOTS 75 AND 76 AND NON-BUILDABLE BULK PARCELS G, H, AND I A SUBDIVISION OF P/O PARCEL 706, NON-BUILDABLE BULK PARCELS "A" AND "B"

BLUFFS AT TURF VALLEY, PLAT NO. 24021, & NON-BUILDABLE BULK PARCELS "E" AND "F" FAIRWAYS AT TURF VALLEY PH II, PLAT NO. 29294 TAX MAP 17 GRID 13, ZONED: PGCC HOWARD COUNTY, MARYLAND ELECTION DISTRICT NO. 2

__ OF _2

SCALE

AS SHOWN



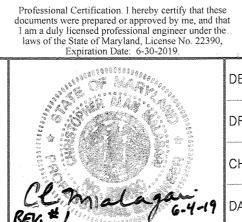
| | WATER MAIN STAKE | OUT TABLE | | | | |
|-----------|--------------------|-----------|------------|--|--|--|
| LOCATION | ITEM | NORTHING | EASTING | | | |
| | VIVALDI LANE | | | | | |
| STA. 0+48 | CONNECT TO 8" W | 593503.90 | 1349452.91 | | | |
| STA. 4+08 | PC | 593853.14 | 1349540.31 | | | |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

| SEWER STRUCTURE TABLE | | | | | | | | |
|---|----------------------|---------------------------|---------------------------------|------------|--------|----------------|--------|-----------------|
| ITEM NORTHING EASTING TOP ELEV. INV. IN INV. OUT HOWARD COU | | | | | | | | |
| | | | | ELEV. | ELEV. | STD. DETAIL | | |
| 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 | 503057.36 1340575.16 | MH 130 593957.36 1349575. | 130 593957.36 1349575.16 443.12 | 1240575 16 | 443.12 | 432.95 | 425.30 | G-5.14 (TYPE B) |
| 31/11/130 | 383837.30 | 1343373.10 | 773.12 | 425.40 | 720.00 | 0-0.14 (TTE B) | | |

THIS MYLAR REPLACES PREVIOUS SHEET 2 SIGNED ON **8**-10-2018 KCI TECHNOLOGIES

MANGIONE ENTERPRISES OF TURF VALLEY, LP 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 410-825-8400

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 418 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM



440.55

441.67

441.86

444.92

445.84

446.54

447.00

441.88

442.42

442.65

443.62

444.72

445.42

446.02

446.64

447.42

NOTE: ALL DROP CONNECTIONS ARE HOWARD COUNTY

441.50

442.50 442.50

447.00

447.50

447.50

448.00

442.64

443.54

444.94

445.44

447.31

447.31

447.81 447.81

448.31

STD. DETAIL S-2.12 TYPE 'A'

2

3

4

10

11

12

13

14

15

| | DESIGN | l: DBT | | | | |
|-----|--------|--------|-----------|-----|---|--|
| | DRAFT: | DBT | | | | |
| | CHK: | CAM | n | _ | REVISE SHC & WHC LOCATIONS SO METERS AND C/O's | THE PROPERTY OF THE PROPERTY O |
| -19 | DATE: | 5/2019 | BEI BY | NO. | ARE NOT LOCATED IN DRIVEWAY PAVEMENT REVISIONS | 5-30-2019 DATE |
| | | | | | | |

WATER & SEWER PLAN AND PROFILES

BLOCK: 16

600 SCALE MAP NO. 16

TURF VALLEY, POD E-1, PHASE 1 LOTS 1-17, OPEN SPACE LOTS 73 AND 74, GOLF SPACE LOTS 75 AND 76 AND NON-BUILDABLE BULK PARCELS 'G', 'H', AND 'I'

OUTSIDE DROP

(TYPE B)

EX. 8" INV.

IN=425.40

OUT= 425.30

CONNECTION

EX. GRADE OVER WATER MAIN SURVEY DATE -JANUARY 2006

PROPOSED GRADE OVER SEWER

8" S @2.6%

LOT 9 LOT 3 BF=442.64 BF=442.50

REPAIR SLEEW 0+3
SHCLOT 10
STA.0+20 432.31
436.90
436.90

PROP. 8" PUBLIC WATER (DIP)

PUBLIC WATER PROFILE (VIVALDI LANE)

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

LOT 12 BF=445.44 LOT 11 BF=444.94

EX. 8" PUBLIC WATER (D.I.P) (#44-4934-D)

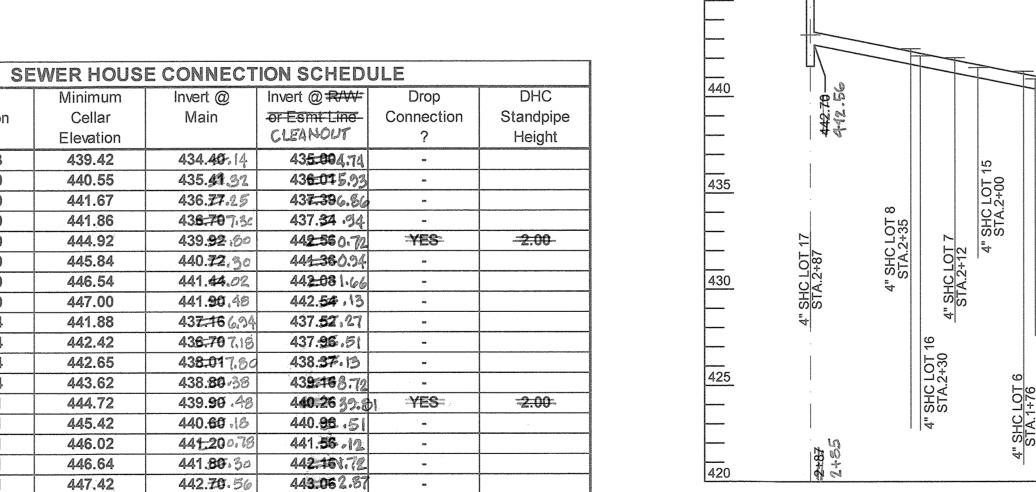
REMOVE EX. CAP & —
BUTTRESS

AS SHOWN SHEET NO. TAX MAP: 17 - GRID: 13 - PARCEL: 706 - ZONED: PGCC - ELECTION DISTRICT 2 CONTRACT NO. 24-4979-D 2 of 2

SCALE:

| | | 445 |
|--------------------|---|-------------|
| | | |
| | | |
| | ı | |
| | | 440 |
| DHC | | 440 |
| Standpipe | | |
| Height | | |
| | | |
| | | 435 |
| | | |
| -2.00 | | |
| | | |
| | | 430 |
| | | <u> </u> |
| | | |
| | | |
| | | 425 |
| -2.00 - | | |
| | | |
| | | |
| | | 420 |
| 1 | | |

EX. 8" PUBLIC WATER (D.I.P) (#24-4671-D)



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

OVER SEWER

8" S @2.0%

1 inch = 50 ft.

J:\2948 Turf Valley Pod E-1\dwq\6000 replacement sheet.dwq. 6/4/2019 9:03:56 AM

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND