

GENERAL NOTES

- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- THE SUBJECT PROPERTY IS ZONED PGCC PER THE 10-6-2013 COMPREHENSIVE ZONING PLAN.
- BOUNDARY IS BASED ON RECORD PLAT NO. 23684-23690.
- THE EXISTING TOPOGRAPHY SHOWN ON THESE LOTS IS BASED ON MASS GRADING AS SHOWN ON APPROVED F-15-079 ROAD CONSTRUCTION PLANS.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANNING COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 16E1 AND 0012 WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. THE CONTRACT NUMBER IS 24-4887-D.
- SEWER IS PUBLIC. THE CONTRACT NUMBER IS 24-4887-D.
- THIS PROJECT IS LOCATED WITHIN THE METROPOLITAN DISTRICT. THE DRAINAGE AREA IS THE LITTLE PATUXENT.
- EXISTING UTILITIES SHOWN ARE BASED ON CONTRACT DRAWINGS, AERIAL AND FIELD SURVEYED LOCATIONS.
- THERE ARE NO WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, 100-YEAR FLOODPLAIN OR 25% OR GREATER STEEP SLOPES THAT ARE AT LEAST 20,000 S.F. OF CONTIGUOUS AREA LOCATED ON THESE LOTS.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES OR HISTORIC STRUCTURES LOCATED ON THIS SITE.
- STORMWATER MANAGEMENT FOR THESE LOTS WAS PROVIDED UNDER F-15-079, VILLAGES AT TURF VALLEY, PHASE 5. THE STORMWATER MANAGEMENT FACILITIES ARE ALL LOCATED WITH HOMEOWNERS ASSOCIATION OWNED OPEN SPACE LOTS AND ARE PRIVATELY OWNED AND PRIVATELY OR JOINTLY MAINTAINED. THE SWM DESIGN FOR THE HOMES WAS BASED ON AN IMPERVIOUS AREA OF 1,920SQ. FT. THE TOTAL IMPERVIOUS AREA FOR EACH PROPOSED HOUSE INCLUDING ALL OPTIONS SHALL BE EQUAL TO OR LESS THAN THIS AMOUNT.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE).
 - SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-3/8" MIN.).
 - GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOAD)
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
 - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.03 AND R-6.05.
- LANDSCAPING WAS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL UNDER F-15-079, VILLAGES AT TURF VALLEY, PHASE 5. FINANCIAL SURETY IN THE AMOUNT OF \$15,600.00 FOR THE REQUIRED LANDSCAPING WAS POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT.
- THIS PROJECT IS EXEMPT FROM THE HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202(b)(1)(v) OF THE HOWARD COUNTY CODE SINCE IT IS A PLANNED UNIT DEVELOPMENT WHICH HAD PRELIMINARY DEVELOPMENT PLAN APPROVAL AND 50% OR MORE OF THE LAND WAS RECORDED AND SUBSTANTIALLY DEVELOPED BEFORE DECEMBER 31, 1992.
- THIS SUBDIVISION IS SUBJECT TO SECTION 18.122B OF THE HOWARD COUNTY CODE. PUBLIC WATER AND/OR SEWER SERVICE HAS BEEN GRANTED UNDER THE TERMS AND PROVISIONS, THEREOF, EFFECTIVE 2-2-2016 ON WHICH DATE DEVELOPER AGREEMENT #15079/24-4887-D WAS FILED AND ACCEPTED.
- THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE ZONING REGULATIONS EFFECTIVE OCTOBER 6, 2013. PER SECTION 126(H)(1) AND THE TURF VALLEY MULTI-USE SUBDISTRICT FDP, THIRD AMENDMENT, PLANNING BOARD APPROVAL OF THIS SITE DEVELOPMENT PLAN IS REQUIRED.
- THIS PROJECT IS SUBJECT TO THE TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, INC. IN JANUARY, 2005. IT WAS SUPPLEMENTED WITH A LETTER SPECIFICALLY FOR VILLAGES AT TURF VALLEY PHASE 5 DATED SEPTEMBER 3, 2015 AND APPROVED UNDER SP-15-003.
- THE VILLAGES AT TURF VALLEY SUBDIVISION (PHASES 1-4) CONSTITUTED 241 TOTAL UNITS, WHICH MET THE SKETCH PLAN MILESTONE DATE OF JANUARY 1, 2001 THROUGH JUNE 30, 2002 FOR BOTH PHASE IVA (131 UNITS) AND IVB (110 UNITS) AS ESTABLISHED BY THE REVISED PHASING PLAN DATED JUNE 21, 2000, UNDER F-06-013. 42 CONDOMINIUM UNITS THAT WERE APPROVED WERE USED FOR OAKMONT AT TURF VALLEY (F-02-082). THESE 42 CONDOMINIUM UNITS WERE NOT PREVIOUSLY INCLUDED WITH THE OAKMONT AT TURF VALLEY (F-02-82) PLANS. IN ORDER TO RECEIVE BUILDING ALLOCATIONS, THESE 42 CONDOMINIUM UNITS WERE SHOWN AND APPROVED ON THE PRELIMINARY PLAN FOR THE VILLAGES AT TURF VALLEY (F-06-013). THE SECOND AMENDMENT TO THE TURF VALLEY MULTI-USE FINAL DEVELOPMENT PLAN WAS RECORDED ON NOVEMBER 30, 2007, INCREASING THE PROJECTED UNITS IN THE OAKMONT AT TURF VALLEY AREA FROM 150 TO 200. AS A RESULT, THOSE 42 UNITS ARE NO LONGER A PART OF THE VILLAGES AT TURF VALLEY WHICH LEAVES UNIT TOTAL AT 199. HOWEVER, WITH THE APPROVAL OF WF-08-009 AN ADDITIONAL 21 UNITS WERE ADDED TO THE VILLAGES AT TURF VALLEY. THE FINAL UNIT TOTAL FOR THIS SUBDIVISION COMES TO 220.
- PRIOR TO GRADING PERMIT APPLICATION, THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 16.129 THE HOWARD COUNTY CODE.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDER'S EXPENSE.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, WINDOW WELLS, ORIELS, VESTIBULES, BALCONIES AND CHIMNEYS MAY ENCRoACH 4 FEET INTO ANY SETBACK OR REQUIRED DISTANCE BETWEEN BUILDINGS PROVIDED THE FEATURE HAS A MAXIMUM WIDTH OF 16 FEET. EXTERIOR STAIRWAYS OR RAMPS, ABOVE OR BELOW GROUND LEVEL (EXCLUDING THOSE ATTACHED TO A PORCH OR DECK) MAY ENCRoACH 10 FEET INTO A FRONT SETBACK OR A SETBACK FROM A PROJECT BOUNDARY, 16 FEET INTO A REAR SETBACK, 4 FEET INTO A SIDE SETBACK OR REQUIRED DISTANCE BETWEEN BUILDINGS. OPEN OR ENCLOSED PORCHES OR DECKS AND THE STAIRWAYS OR RAMPS ATTACHED THERETO MAY ENCRoACH 10 FEET INTO A FRONT OR REAR SETBACK, SETBACK FROM A PROJECT BOUNDARY OR A REQUIRED DISTANCE BETWEEN BUILDINGS.
- THE LOTS SHOWN ON THIS SITE DEVELOPMENT PLAN ARE BEING TRANSFERRED FROM THE 59 UNITS/LOTS PREVIOUSLY APPROVED FOR VILLAGES AT TURF VALLEY, PHASE 3, F-08-085.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

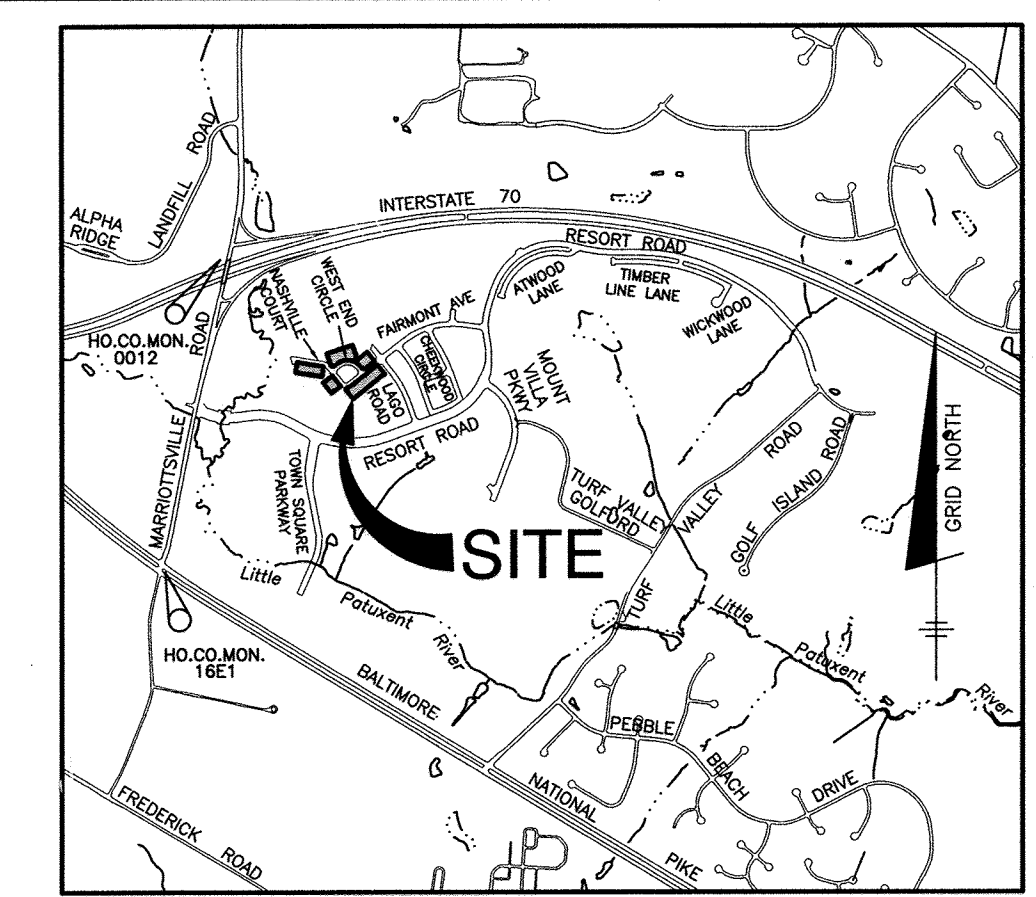
RESIDENTIAL SITE DEVELOPMENT PLAN

WEST END VILLAGE

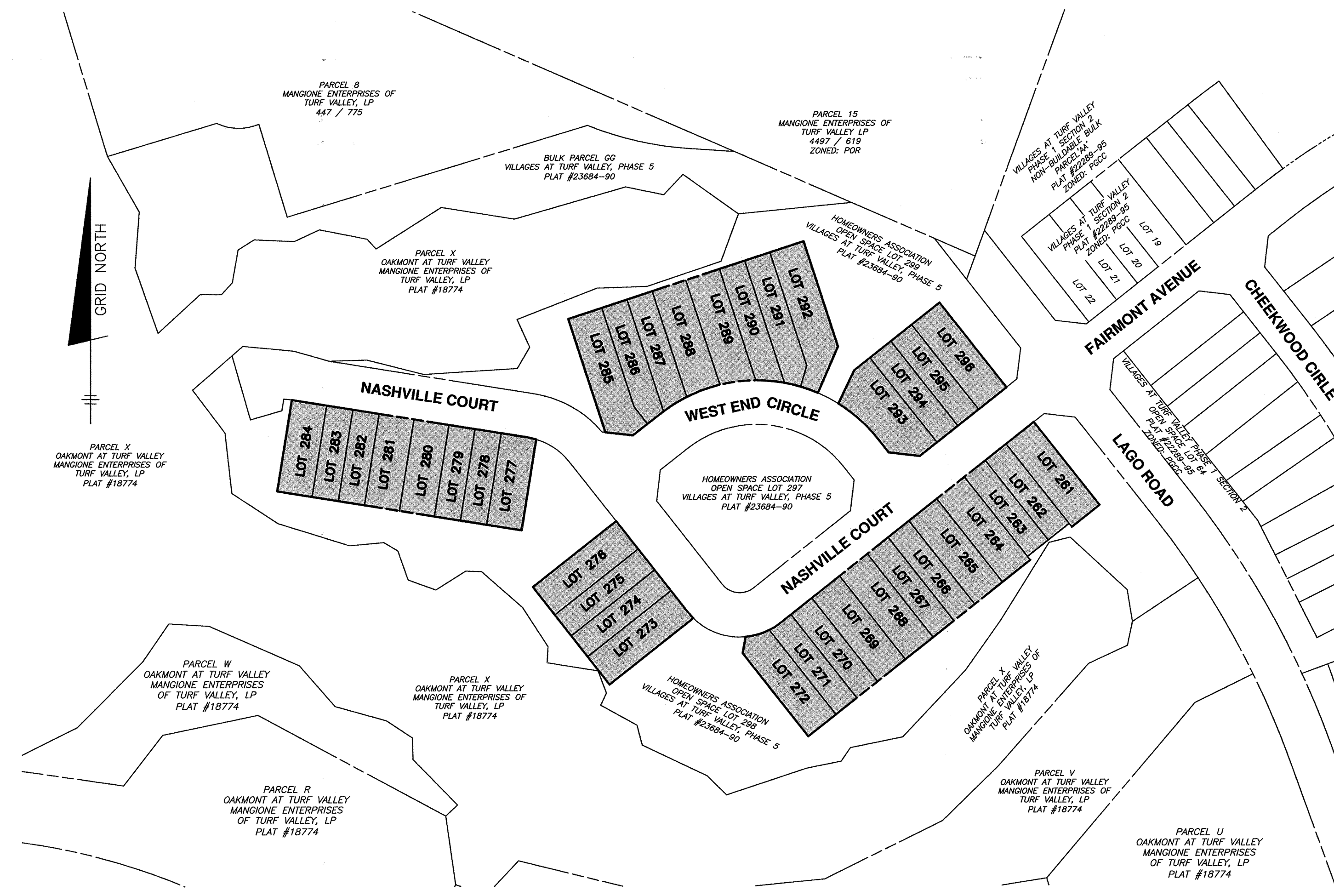
(VILLAGES AT TURF VALLEY, PHASE 5)

LOTS 261 thru 296

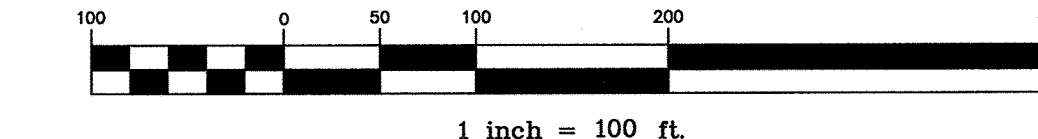
BENCHMARKS
 NAD'83 HORIZONTAL
 HO. CO. #16E1 (AKA: 3438001)
 STAMPED BRASS DISK SET ON TOP OF
 A 3/4" DEEP COLUMN OF CONCRETE.
 N 593250.960' E 1340192.70'
 ELEVATION: 463.981'
 HO. CO. #0012 (AKA: 3439001)
 STAMPED BRASS DISK SET ON TOP OF
 A 3/4" DEEP COLUMN OF CONCRETE.
 N 596502.760' E 1340864.37'
 ELEVATION: 486.298'



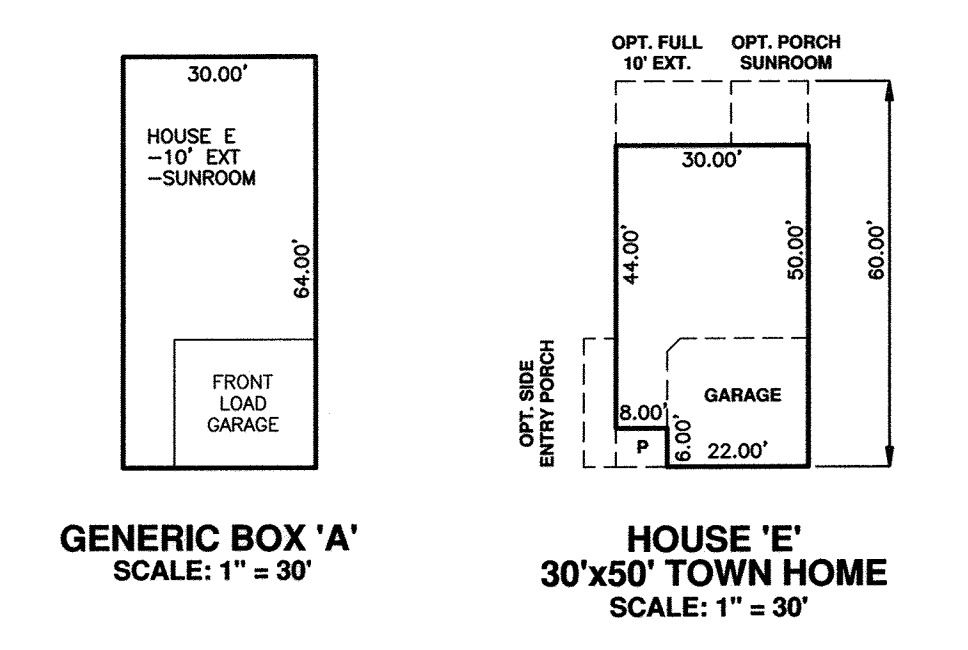
VICINITY MAP
 SCALE: 1" = 2000'
 ADC MAP: 19
 GRID: D4



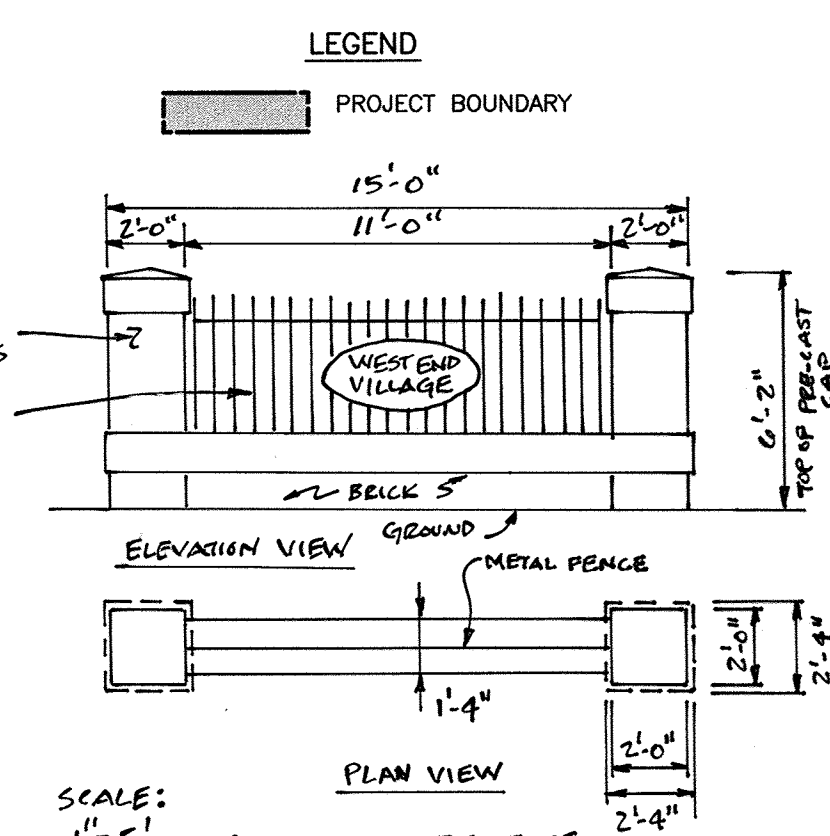
NOTE: ALL SURROUNDING PROPERTY IS ZONED PGCC UNLESS OTHERWISE NOTED IN THE PLAN VIEW



ADDRESS CHART	
LOT	STREET ADDRESS
261	11005 NASHVILLE COURT
262	11007 NASHVILLE COURT
263	11009 NASHVILLE COURT
264	11011 NASHVILLE COURT
265	11015 NASHVILLE COURT
266	11017 NASHVILLE COURT
267	11019 NASHVILLE COURT
268	11021 NASHVILLE COURT
269	11025 NASHVILLE COURT
270	11027 NASHVILLE COURT
271	11029 NASHVILLE COURT
272	11031 NASHVILLE COURT
273	11041 NASHVILLE COURT
274	11043 NASHVILLE COURT
275	11045 NASHVILLE COURT
276	11047 NASHVILLE COURT
277	11055 NASHVILLE COURT
278	11057 NASHVILLE COURT
279	11059 NASHVILLE COURT
280	11061 NASHVILLE COURT
281	11065 NASHVILLE COURT
282	11067 NASHVILLE COURT
283	11069 NASHVILLE COURT
284	11071 NASHVILLE COURT
285	2724 WEST END CIRCLE
286	2722 WEST END CIRCLE
287	2720 WEST END CIRCLE
288	2718 WEST END CIRCLE
289	2716 WEST END CIRCLE
290	2714 WEST END CIRCLE
291	2712 WEST END CIRCLE
292	2710 WEST END CIRCLE
293	11010 NASHVILLE COURT
294	11008 NASHVILLE COURT
295	11006 NASHVILLE COURT
296	11004 NASHVILLE COURT



SHEET INDEX	
SHEET	TITLE
1	TITLE SHEET
2	SITE DEVELOPMENT AND GRADING PLAN
3	SEDIMENT AND EROSION CONTROL PLAN
4	SEDIMENT & EROSION CONTROL NOTES AND DETAILS



SITE ANALYSIS DATA CHART

- | | |
|--|--|
| A.) TOTAL PROJECT AREA | 3.51 acres |
| B.) AREA OF PLAN SUBMISSION | 3.51 acres |
| C.) LIMIT OF DISTURBED AREA | 3.95 acres |
| D.) PRESENT ZONING: | PGCC (MULTI-USE SUBDISTRICT) |
| E.) PROPOSED USE OF SITE: | RESIDENTIAL SINGLE FAMILY ATTACHED |
| F.) FLOOR SPACE ON EACH LEVEL OF BLDG PER USE | N/A |
| G.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S) | 36 |
| H.) TOTAL NUMBER OF UNITS PROPOSED | 36 |
| I.) MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE | N/A |
| J.) NUMBER OF PARKING SPACES REQUIRED BY HO. CO. ZONING REGS AND/OR FDP CRITERIA | 90 (36 UNITS x 2.5) |
| K.) NUMBER OF PARKING SPACES PROVIDED ON-SITE (INCLUDES HANDICAPPED SPACES) | 144 (2 FOR EACH GARAGE AND 2 FOR EACH DRIVEWAY) |
| L.) OPEN SPACE ON-SITE | N/A |
| M.) AREA OF RECREATIONAL OPEN SPACE REQUIRED | N/A |
| N.) BUILDING COVERAGE OF SITE | 45.3% |
| O.) APPLICABLE DPZ FILE REFERENCES: | S-03-01, ECP-14-053, SP-15-003, F-15-079, F-16-020 |

BULK REGULATIONS:
 (per 3RD AMENDMENT TO THE TURF VALLEY, MULTI-USE SUBDISTRICT FDP)

- PROPOSED USES : ALL USES AS PER TURF VALLEY PGCC DISTRICT, MULTI-USE SUBDISTRICT FINAL DEVELOPMENT PLAN, THIRD AMENDMENT, PLATS 21029-21031 (46 UNITS OBTAINED FROM RESIDENTIAL UNITS TO SPECIALTY STORES)
- PROPOSED USE : SINGLE FAMILY ATTACHED
- PERMITTED HEIGHT : SINGLE FAMILY ATTACHED - 34 FEET
 OTHER - 15 FEET
 ACCESSORY STRUCTURES - 15 FEET
- MAXIMUM DENSITY FOR TOTAL PGCC DISTRICT IS 2.0 DWELLING UNITS PER ACRE.
- MINIMUM LOT SIZE REQUIREMENTS :
 EXCEPT ZERO LOT LINE DWELLINGS 4,000 SQ.FT.
- MINIMUM LOT WIDTH AT BUILDING RESTRICTION LINE:
 EXCEPT ZERO LOT LINE DWELLINGS 40 FEET
- MAXIMUM UNITS PER STRUCTURE: 8 UNITS
- MAXIMUM BUILDING LENGTH FOR RESIDENTIAL STRUCTURE = 120 FEET, UNLESS APPROVED BY PLANNING BOARD TO A MAXIMUM OF 300 FEET.
- PERMITTED SETBACKS:
 FROM ARTERIAL ROADS: 50 FEET
 RESIDENTIAL STRUCTURES: 30 FEET
 ACCESSORY USES: 10 FEET
- FROM COLLECTORS AND LOCAL STREETS:
 RESIDENTIAL STRUCTURES: 30 FEET FROM A 60 FT. ROW
 ACCESSORY USES: 20 FEET FROM A 50 FT. ROW
- FROM NON-PGCC ADJACENT PROPERTIES:
 FROM RESIDENTIAL DISTRICTS: 75 FEET
 FROM ALL OTHER DISTRICTS: 30 FEET
 FROM LOT LINES WITHIN PGCC MULTI-USE SUBDISTRICT
- ZERO LOT LINE AND ALL OTHER USES - SIDE: 0 FEET
 A MINIMUM OF 10 FEET MUST BE PROVIDED BETWEEN STRUCTURES
 RESIDENTIAL - REAR: 20 FEET

VILLAGES AT TURF VALLEY PHASING CHART				
PHASE/SECTION	S.F.A.	S.F.D.	CONDOMINIUM	TOTAL
PI51 (F-10-026)	0	0	0	0
PI52 (F-08-060)	41	21	0	62
PI53 (F-15-078)	6	0	0	6
P251 (F-08-084)	0	0	44 *	44
P252 (F-10-078)	0	48	0	48
P4 (F-08-086)	15	8	0	23
P5 (F-15-079)	36	0	0	36
MAINT SHOP (SDP-08-098)	0	0	1 (Access. Apt.)	1
TOTAL	98	77	45	220

* FUTURE CONDO BUILDING ON LOT 203

PERMIT INFORMATION CHART				
SUBDIVISION NAME:		SECTION/AREA:	LOT/PARCEL #	
WEST END VILLAGE (VILLAGES AT TURF VALLEY)		PHASE 5	LOTS 261 thru 296	
PLAT No.	GRID No.	ZONE	TAX MAP NO	ELECTION DISTRICT
23684-23690	11	PGCC	16	3rd
			CENSUS TRACT	
			6030.00	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
B. J. ... 9/14/2016
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: 8-18-2016

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division: 9-29-16
 Chief, Division of Land Development: 10-3-16
 Director: 10-3-16

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. 23266, Expiration Date: 6-30-2017.

BENCHMARK ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE & SUITE 310 & ELLICOTT CITY, MARYLAND 21043
 (P) 410-485-8105 (F) 410-485-8644
 WWW.BEI-CIVILENGINEERING.COM

OWNER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP
 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093
 410-825-8400

RESIDENTIAL - SINGLE FAMILY ATTACHED
WEST END VILLAGE (VILLAGES AT TURF VALLEY, PHASE 5)
 LOTS 261 thru 296

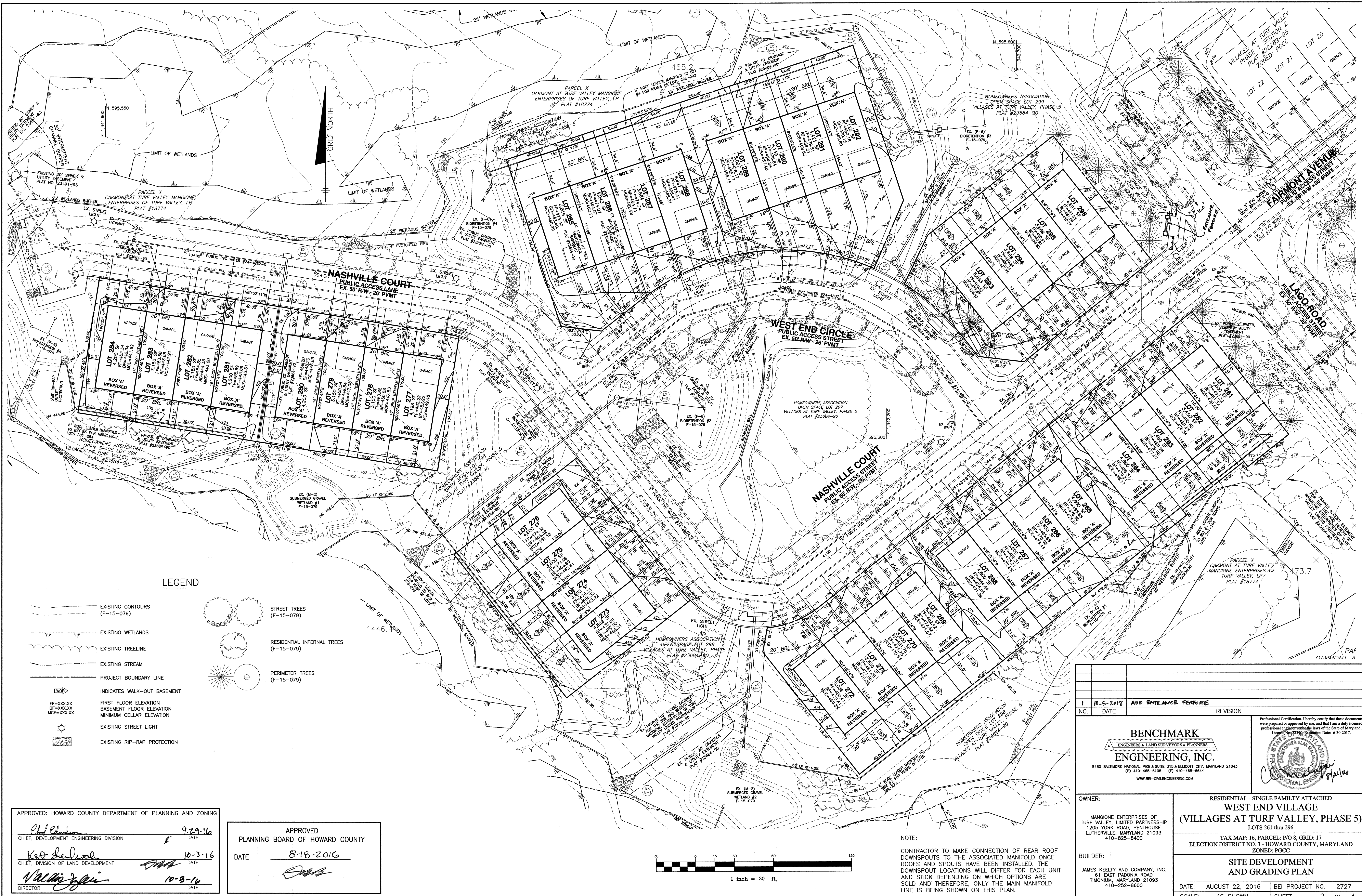
TAX MAP: 16, PARCEL: P/O 8, GRID: 17
 ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND
 ZONED: PGCC

SITE DEVELOPMENT PLAN COVER SHEET

DATE: AUGUST 22, 2016
 SCALE: AS SHOWN

BUILDER: JAMES KEELY AND COMPANY, INC.
 61 EAST PADONIA ROAD
 TIMONON, MARYLAND 21093
 410-252-8600

BEI PROJECT NO. 2727
 SHEET 1 OF 4



- LEGEND**
- EXISTING CONTOURS (F-15-079)
 - EXISTING WETLANDS
 - EXISTING TREELINE
 - EXISTING STREAM
 - PROJECT BOUNDARY LINE
 - INDICATES WALK-OUT BASEMENT
 - FF=XXX.XX
BF=XXX.XX
MCE=XXX.XX
 - EXISTING STREET LIGHT
 - EXISTING RIP-RAP PROTECTION
 - STREET TREES (F-15-079)
 - RESIDENTIAL INTERNAL TREES (F-15-079)
 - PERIMETER TREES (F-15-079)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Chamberlain 9-29-16
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

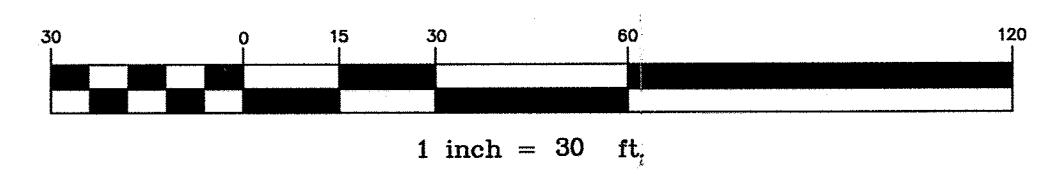
Keith DeLuca 10-3-16
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Walter J. J. J. 10-3-16
DIRECTOR DATE

APPROVED
PLANNING BOARD OF HOWARD COUNTY

DATE 8-18-2016

[Signature]



NOTE:
CONTRACTOR TO MAKE CONNECTION OF REAR ROOF DOWNSPOUTS TO THE ASSOCIATED MANIFOLD ONCE ROOFS AND SPOUTS HAVE BEEN INSTALLED. THE DOWNSPOUT LOCATIONS WILL DIFFER FOR EACH UNIT AND STICK DEPENDING ON WHICH OPTIONS ARE SOLD AND THEREFORE, ONLY THE MAIN MANIFOLD LINE IS BEING SHOWN ON THIS PLAN.

10-5-2018 ADD ENTRANCE FEATURE	
NO.	REVISION
<p>BENCHMARK ENGINEERING, INC. ENGINEERS & LAND SURVEYORS & PLANNERS 8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-8100 (F) 410-465-8644 WWW.BEI-CIVILENGINEERING.COM</p>	
OWNER:	RESIDENTIAL - SINGLE FAMILY ATTACHED WEST END VILLAGE (VILLAGES AT TURF VALLEY, PHASE 5) LOTS 261 thru 296
BUILDER:	TAX MAP: 16, PARCEL: P/O 8, GRID: 17 ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND ZONED: PGCC
SITE DEVELOPMENT AND GRADING PLAN	
DATE: AUGUST 22, 2016	BEI PROJECT NO. 2727
SCALE: AS SHOWN	SHEET 2 OF 4

Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate 1/		Seeding Depth 2/ (inches)	Recommended Seeding Dates by Plant Hardiness Zone 3/	
	lb/ac	lb/1000ft ²		5b and 6a	6b
Cool-Season Grasses					
Annual Ryegrass (<i>Lolium perenne</i> ssp. Multiflorum)	40	1.0	0.5	Mar 1 to May 15; Aug 1 to Oct 31	
Barley (<i>Hordeum vulgare</i>)	96	2.2	1.0	Mar 1 to May 15; Aug 1 to Oct 31	
Oats (<i>Avena sativa</i>)	72	1.7	1.0	Mar 1 to May 15; Aug 1 to Oct 31	
Wheat (<i>Triticum aestivum</i>)	120	2.8	1.0	Mar 1 to May 15; Aug 1 to Oct 31	
Cereal Rye (<i>Secale cereale</i>)	112	2.8	1.0	Mar 1 to May 15; Aug 1 to Nov 15	
Warm-Season Grasses					
Forstall Millet (<i>Setaria italica</i>)	30	0.7	0.5	May 16 to Jul 31	
Pearl Millet (<i>Pennisetum glaucum</i>)	20	0.5	0.5	May 16 to Jul 31	

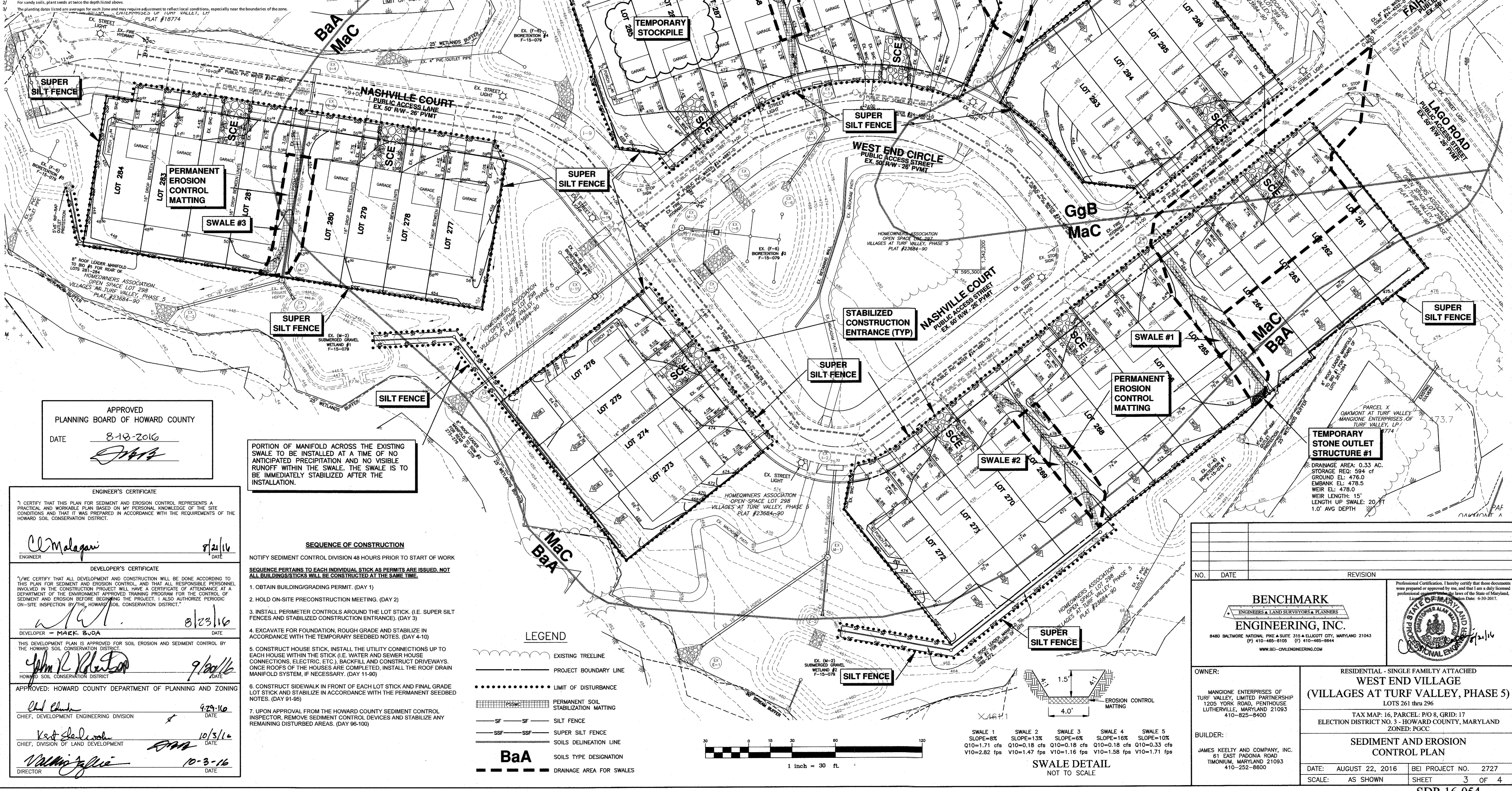
Notes:
 1/ Seeding rates for the warm season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.
 Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, pearl millet, forstall millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur very late (late fall) beyond the seeding dates for other temporary seedings.
 Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above.
 Oats are the recommended nurse crop for warm-season grasses.

Permanent Seeding Summary

No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)			Lime Rate
					N	P2O5	K2O	
9	Fescue, Tall	60	Mar 1 to May 15 Aug 1 to Oct 15	1/4 - 1/2 in	45 pounds per acre (11.0 lb/1000 ft ²)	90 lb/ac (21 lb/1000 ft ²)	90 lb/ac (21 lb/1000 ft ²)	2 tons/ac (900/1000 ft ²)
	Bluegrass, Kentucky	40	Mar 1 to May 15 Aug 1 to Oct 15	1/4 - 1/2 in	45 pounds per acre (11.0 lb/1000 ft ²)	90 lb/ac (21 lb/1000 ft ²)	90 lb/ac (21 lb/1000 ft ²)	2 tons/ac (900/1000 ft ²)

NRCS SOILS CHART - HoCo Soils Map No. 12

SYMBOL	HYDRIC	GROUP	Kw	MAP UNIT NAME
GgB	YES	B	0.37	GLENELG LOAM, 3 TO 8 PERCENT SLOPES
BaA	YES	D	0.43	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES
MaC	YES	D	0.32	MANOR LOAM, 8 TO 15 PERCENT SLOPES
Ha	YES	D	0.37	HATBORO-CODORUS, 0 TO 3 PERCENT SLOPES



APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE: 8-18-2016
[Signature]

PORTION OF MANIFOLD ACROSS THE EXISTING SWALE TO BE INSTALLED AT A TIME OF NO ANTICIPATED PRECIPITATION AND NO VISIBLE RUNOFF WITHIN THE SWALE. THE SWALE IS TO BE IMMEDIATELY STABILIZED AFTER THE INSTALLATION.

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 8/21/16
 ENGINEER

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 8/23/16
 DEVELOPER - MAKE BUDA

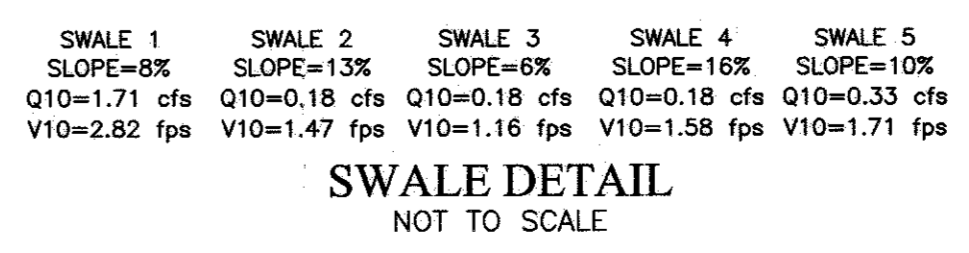
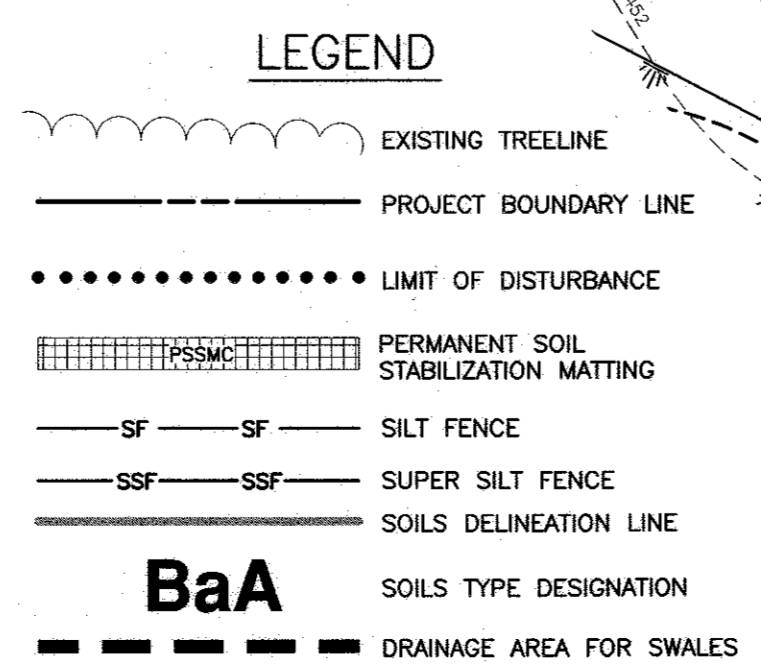
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 9/20/16
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 9/29/16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 10/3/16
 CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 10-3-16
 DIRECTOR

- SEQUENCE OF CONSTRUCTION**
- NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF WORK
- SEQUENCE PERTAINS TO EACH INDIVIDUAL STICK AS PERMITS ARE ISSUED, NOT ALL BUILDINGS/STICKS WILL BE CONSTRUCTED AT THE SAME TIME.
- OBTAIN BUILDING/GRADING PERMIT. (DAY 1)
 - HOLD ON-SITE PRECONSTRUCTION MEETING. (DAY 2)
 - INSTALL PERIMETER CONTROLS AROUND THE LOT STICK (I.E. SUPER SILT FENCES AND STABILIZED CONSTRUCTION ENTRANCE). (DAY 3)
 - EXCAVATE FOR FOUNDATION, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH THE TEMPORARY SEEDBED NOTES. (DAY 4-10)
 - CONSTRUCT HOUSE STICK, INSTALL THE UTILITY CONNECTIONS UP TO EACH HOUSE WITHIN THE STICK (I.E. WATER AND SEWER HOUSE CONNECTIONS, ELECTRIC, ETC.), BACKFILL AND CONSTRUCT DRIVEWAYS. ONCE ROOFS OF THE HOUSES ARE COMPLETED, INSTALL THE ROOF DRAIN MANIFOLD SYSTEM, IF NECESSARY. (DAY 11-90)
 - CONSTRUCT SIDEWALK IN FRONT OF EACH LOT STICK AND FINAL GRADE LOT STICK AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES. (DAY 91-95)
 - UPON APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS. (DAY 96-100)



TEMPORARY STONE OUTLET STRUCTURE #1

DRAINAGE AREA: 0.33 AC.
 STORAGE REQ: 594 CF
 GROUND EL: 476.0
 EMBANK EL: 478.5
 WEIR EL: 478.0
 WEIR LENGTH: 15'
 LENGTH UP SWALE: 20 FT
 1.0' AVG DEPTH

NO. DATE REVISION

BENCHMARK ENGINEERING, INC.
 ENGINEERS & LAND SURVEYORS & PLANNERS
 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLIOTT CITY, MARYLAND 21043
 (P) 410-485-6105 (F) 410-485-6644
 WWW.BEI-ONLINEENGINEERING.COM

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland. License No. 17179, Expiration Date: 6-30-2017.

OWNER:
 MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP
 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093
 410-825-8400

BUILDER:
 JAMES KEELY AND COMPANY, INC.
 61 EAST PADONIA ROAD
 TIMONUM, MARYLAND 21093
 410-252-8600

RESIDENTIAL - SINGLE FAMILY ATTACHED
WEST END VILLAGE (VILLAGES AT TURF VALLEY, PHASE 5)
 LOTS 261 thru 296
 TAX MAP: 16, PARCEL: P/O 8, GRID: 17
 ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND
 ZONED: PGCC

SEDIMENT AND EROSION CONTROL PLAN

DATE: AUGUST 22, 2016 BEI PROJECT NO. 2727
 SCALE: AS SHOWN SHEET 3 OF 4

