THE VILLAGES AT EMERALD BAY WATER DISTRIBUTION SYSTEM FRANKLIN COUNTY, VIRGINIA

942

GO STrawberry Books Dr.

VICINITY MAP

OCTOBER 27, 2004

GENERAL NOTES:

1. EXISTING TOPOGRAPHY, UTILITY LOCATIONS, PROPERTY BOUNDARIES, AND SURVEY CONTROL SHOWN ON THE DRAWINGS ARE BASED ON A FIELD SURVEY PERFORMED BY WW ASSOCIATES, INC. SURVEY ELEVATIONS ARE BASED ON AN ASSUMED BENCHMARK PROVIDED BY OTHERS. CONTROL POINT LOCATIONS ARE BASED ON AN ASSUMED COORDINATE SYSTEM.

2. ALL WORK SHALL BE IN ACCORDANCE WITH THE FRANKLIN COUNTY STANDARD SPECIFICATION FOR WATER AND SEWER SYSTEMS (CHAPTER 22). THE CONTRACTOR SHALL MAINTAIN A COPY OF THE DRAWINGS AND STANDARD SPECIFICATIONS (CHAPTER 22) AT THE SITE AT ALL TIMES DURING CONSTRUCTION.

3. CONTRACTOR SHALL COMPLY WITH ALL VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS. ALL AREAS SHALL BE PERMANENTLY SEEDED AND STABILIZED IN ACCORDANCE WITH VIRGINIA E & S REGULATIONS IMMEDIATELY AFTER REACHING FINISHED GRADE. VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED FOR ALL DISTURBED AREAS IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS AND THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION AND BEFORE

6. PROVIDE ALL CONNECTING PIECES AND TRANSITION PIECES REQUIRED TO MAKE FINAL PIPING CONNECTIONS.

7. THE LOCATION, DIMENSIONS, AND ELEVATION OF EXISTING STRUCTURES, PIPING, AND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE. DATA AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DATA IN THE FIELD PRIOR TO CONSTRUCTION TO HIS OWN SATISFACTION. THE DIAMETERS OF EXISTING PIPING ARE APPROXIMATE AND SHALL SHALL BE VERIFIED PRIOR TO PERFORMING FINAL CONNECTIONS. CONTACT MISS UTILITY [TELEPHONE No. (800) 552-7001] 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES MARKED. THE CONTRACTOR SHALL PERFORM ANY TEST PIT WORK OR PROVIDE LOCATION SERVICES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING UTILITIES.

8. EARTHWORK, SITE GRADING, STORM DRAINAGE, AND PAVING SPECIFICATIONS AND DETAILS NOT COVERED BY THESE DRAWINGS SHALL CONFORM TO THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS.

9. CHANGES IN NEW PIPING FROM THAT SHOWN ON THE DRAWINGS, IN ORDER TO AVOID CONFLICTS WITH EXISTING ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, EQUIPMENT, STRUCTURES, EXISTING PIENG, OR NATURAL OBSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER THE CONFLICTS ARE SHOWN OR ARE DISCOVERED IN THE FIELD. LIKEWISE, ALTERATIONS TO EXISTING ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, EQUIPMENT, OR EXISTING PIPING AND FOURMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE OWNER AND THE ENGINEER MUST APPROVE ALL SUCH CHANGES

10. ALL UNDERGROUND PIPING SHALL MAINTAIN A MINIMUM COVER OF 3 FEET UNLESS OTHERWISE INDICATED. A POSITIVE GRADE SHALL BE MAINTAINED FOR THE VERTICAL ALIGNMENT OF THE WATER LINE AND PRESSURE PIPING TO ELIMINATE THE FORMATION OF AIR POCKETS.

11. HORIZONTAL DISTANCE IS INDICATED FOR ALL NEW PIPE LENGTHS SHOWN ON THE DRAWINGS. VERTICAL PIPE FITTINGS ARE NOT SHOWN ON THE DRAWINGS FOR CLARITY. THE CONTRACTOR SHALL PROVIDE VERTICAL PIPE FITTINGS AS REQUIRED FOR COMPLETE AND OPERABLE PIPE INSTALLATIONS. PROVIDE ALL CONNECTING PIECES AND TRANSITION PIECES REQUIRED TO MAKE FINAL PIPING CONNECTIONS. ALL PIPING UNDER STRUCTURES SHALL BE PROVIDED WITH RESTRAINED JOINTS.

12. PROVIDE A MINIMUM OF 6 INCHES CLEARANCE BETWEEN PIPING AND FOOTINGS, STRUCTURES, AND OTHER PIPING UNLESS OTHERWISE INDICATED.

13. CONSTRUCTION LIMITS SHALL INCLUDE ALL DISTURBED AREAS. ALL DISTURBED AREAS SHALL BE SEEDED AND PROVIDED WITH EROSION CONTROL DURING AND AT THE END OF CONSTRUCTION.

14. ALL SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH VDOT EC-2 EROSION CONTROL MATTING FROM TOP OF SLOPE TO TOE OF SLOPE. THE CONTRACTOR SHALL ENSURE THE PROPER INSTALLATION OF SUCH MEASURES IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

15. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CONFINED SPACE ENTRY REGULATIONS.

16. SOIL MATERIALS SHALL BE FREE OF DEBRIS, ROOTS, WOOD, SCRAP MATERIAL, VEGETATION, REFUSE, SOFT UNSOUND PARTICLES, AND FROZEN DELETERIOUS OR OBJECTIONABLE MATERIALS. THE MAXIMUM PARTICLE DIAMETER SHALL BE ONE—HALF THE LIFT THICKNESS.

17. EARTHWORK EXCAVATION SHALL BE UNCLASSIFIED. ALL EARTHWORK EXCAVATION SHALL BE PERFORMED TO THE INDICATED ELEVATIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL MAKE HIS OWN INTERPRETATION RELATIVE TO THE QUANTITY OF ROCK EXCAVATION. ROCK EXCAVATION SHALL BE PERFORMED AS UNCLASSIFIED EXCAVATION TO THE INDICATED ELEVATIONS AT NO ADDITIONAL GOST TO THE OWNER.

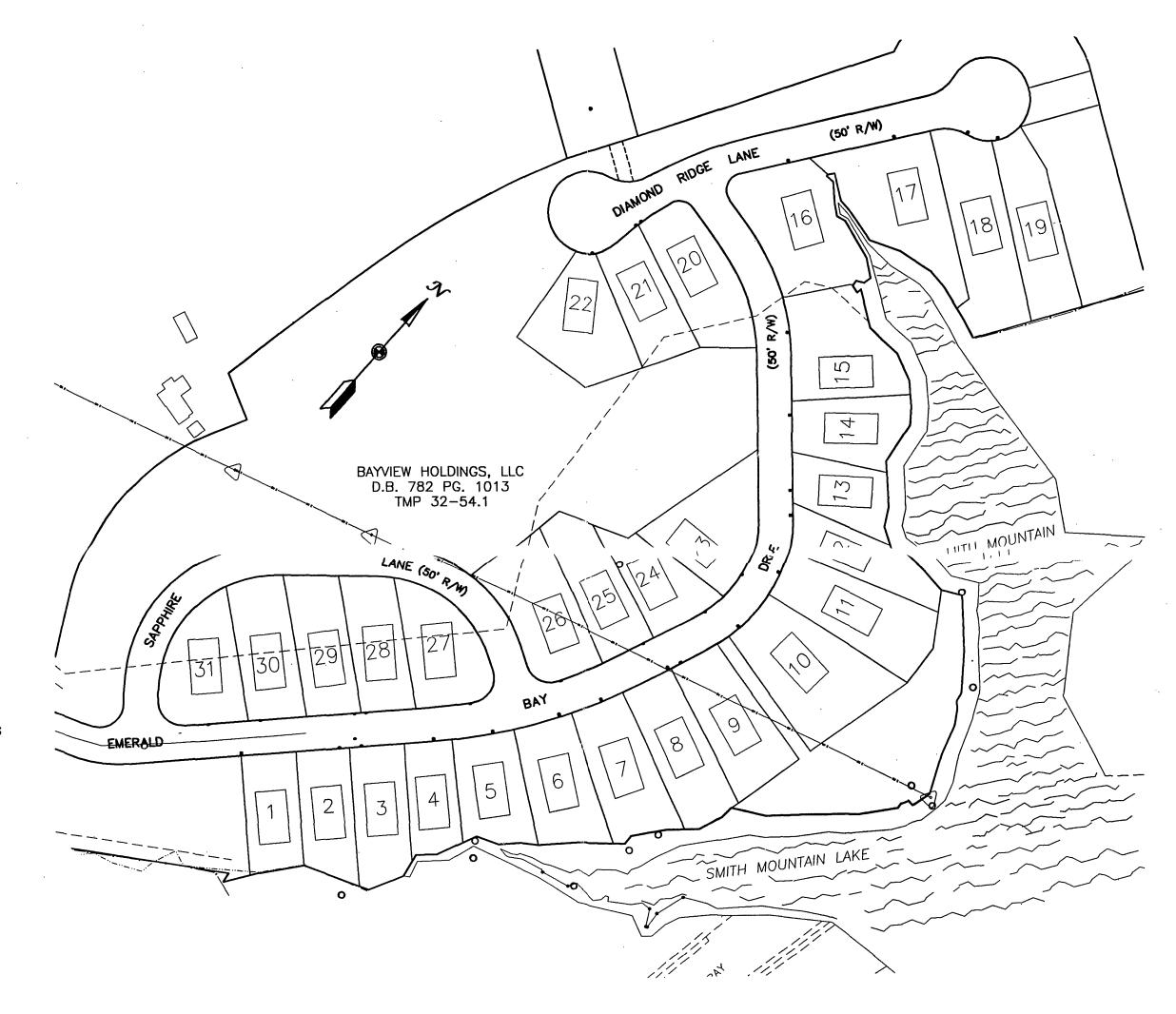
18. PLACE AND COMPACT ALL BACKFILL MATERIAL IN 6-INCH LIFTS TO TOP OF EXCAVATION. COMPACT BACKFILL TO 95 PERCENT MAXIMUM DENSITY BY ASTM D 698 BENEATH AND WITHIN 25 FEET OF BUILDINGS AND STRUCTURES. IF THE DENSITY OF THE ADJACENT SOIL IS MORE THAN THE DENSITY SPECIFIED, THEN COMPACT TO A DENSITY NOT LESS THAN THE DENSITY OF THE ADJACENT SOIL.

19. THE CONTRACTOR SHALL BE FULLY LIABLE FOR REPAIR OF ANY DAMAGES ON PUBLIC OR PRIVATE PROPERTY CAUSED BY HIS CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, STORM CULVERTS, ETC.

20. THE CONTRACTOR SHALL PROTECT EXISTING PAVED SURFACES. ANY DAMAGED PAVEMENT SHALL BE REPAIRED TO MATCH EXISTING. TRACKED EQUIPMENT WILL NOT BE ALLOWED ON PAVED SURFACES. ANY PAVEMENT MARKINGS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY A PAVEMENT MARKING CONTRACTOR FROM THE VDOT PRE-QUALIFICATION LIST.

21. ALL PROPERTY PINS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LAND SURVEYOR LICENSED BY THE COMMONWEALTH OF VIRGINIA.

22. MINIMUM SEPERATIONS OF WATER AND SEWER UTILITIES SHALL BE COMPLY WITH THE LATEST EDITION "STANDARD SPECIFICATION FOR WATER AND SEWER SYSTEMS" (CHAPTER 22); FRANKLIN COUNTY, VA.



PLAN VIEW NOT TO SCALE

LIST OF DRAWINGS

SHEET NO.	DWG NO.	REFERENCE	TITLE
1 OF 5	CS-1	COVER SHEET	LEGEND, LIST OF DRAWINGS, LOCATION MAP, & GENERAL NOTES
2 OF 5	C-1	CIVIL	DIAMOND RIDGE LANE - PLAN & PROFILE STA 10+00 TO 18+39.52
3 OF 5	C-2	CIVIL	EMERALD BAY DRIVE - PLAN & PROFILE STA 19+00 TO 34+25.20
4 OF 5	C-3	CIVIL	DETAILS
5 OF 5	C-4	CIVIL	DETAILS

NOTES: 1. THE SIZE OF THE SYMBOLS

MAY VARY FROM THOSE SHOW

2. ALL ABBREVIATIONS AND SYMBO

SHOWN MAY NOT BE USED.

		LLGLIND			
EXISTING	NEW	DESCRIPTION	EXISTING	NEW	DESCRIPTION
435	<u> </u>	CONTOUR (INTERVAL AS INDICATED ON SITE PLAN)			STRUCTURE
+56.1E	+56.1	SPOT ELEVATION		· r	FUTURE STRUCTURE
, , , , , , , , , , , , , , , , , , ,	$\sim\sim$	TREE LINE			DEMOLISH OR ABANDON STRUCTURE
		HEDGEROW	WATER		METER
		CENTER/EDGE OF STREAM	ELOW-OFF		BLOW-OFF
		FENCE AND GATE			AIR RELEASE VALVE
		EDGE OF PAVEMENT		_	PRESSURE REDUCING VALVE
		PROPERTY LINE	ιξτλη		:
		APPROXIMATE 100	SAN ST		SANITARY OR STORM MANHOLE
		YEAR FLOOD PLAIN	•	>	ANCHOR BLOCK
		RIGHT-OF-WAY			
ohp		OVERHEAD POWER AND/OR TELEPHONE	——— © o	——	SANITARY CLEAN OUT
ss	—ss—	SANITARY SEWER	$ \circlearrowleft $	$ \circlearrowleft $	TELEPHONE POLE, WITH GUY AND ANCHOR
sd	SD	STORM SEWER AND END WALL,	-0-	-0-	POWER POLE
		TYPE AS INDICATED			REDUCER
	——w——	WATER LINE ∴		بن	TREE
fm	—FM—	CECRCE MAIN		* A'	BUSH
1		TIREP OFTO LINE	AK.	** ***	RIPRAP
////- //		ABANDONED OR REMOVED UTILITY		************	, I
			O).		IRON PIN
			PIN		STATION EQUALITY
			A BM		BENCHMARK
			BM $\sum_{\overline{z}}$		NORMAL WATER LEVEL
			-	#	STRUCTURE NUMBER
			ABBREVIA	TIONS	
		AFF ABOVE FINIS AHD AHEAD		LT L	INEAR FEET LEFT

AIR RELEASE VALVE

BACK OF CURB

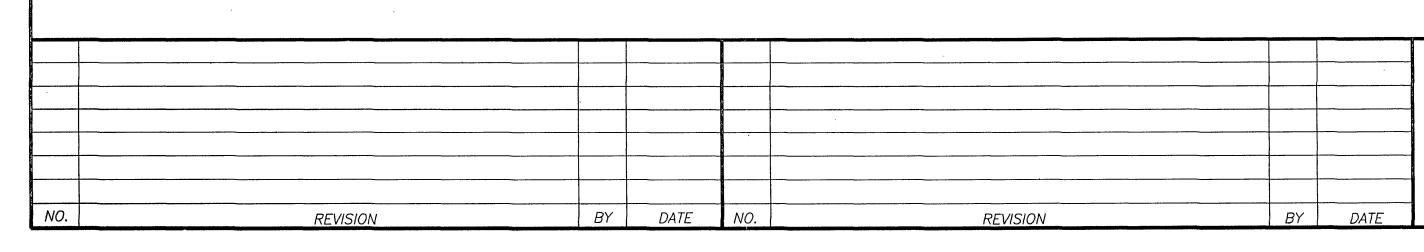
BLIND FLANGE

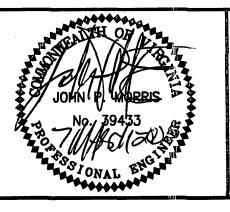
BENCH MARK

CATV CABLE TELEVISION

C & G CURB & GUTTER

END	JPM/JMF DRAWN BY:		1	WAIERDIST	O I D I L/M		
ERS				THE VILLAGES	RALD BAY SYSTEM 0		
,	DESIGNED	BY:		PROJECT:	A (7) E3 (5)	REVISION NU	JN
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			JB	JUNCTION BOX	WW	WOVEN WIRE	
BE USED.			IPF		WT	WATERTIGHT	
SYMBOLS THOSE SHOWN. S AND SYMBOLS			IPS	IRON PIN SET	UGT	UNDERGROUND TELEPHONE	
		,	IN۱	/ INVERT	UGE	UNDERGROUND ELECTRIC	
					UG	UNDERGROUND	
					TYP	TYPICAL	
	CL CHLORINE PVC POLYVINYL CHLORIDE C.L. CHAIN LINK RCP REINFORCED CONCRETE PIPE CMP CORRUGATED METAL PIPE REQ'D REQUIRED CO CLEAN OUT RJ RESTRAINED JOINT CONC CONCRETE RT RIGHT CY CUBIC YARDS R/W RIGHT OF WAY DIA DIAMETER SAN SANITARY DIP DUCTILE IRON PIPE SQ SQUARE EL ELEVATION S.S. STAINLESS STEEL ELEC ELECTRIC STA STATION ELEC ELECTRIC STA STATION EX OR EXIST EXISTING STL STEEL FF FINISHED FLOOR SW SIDEWALK FL FLUORIDE TBA TO BE ABANDONED FOC FACE OF CURB TBR TO BE REMOVED FO FIBER OPTIC TYP TYPICAL UNDERGROUND ELECTRIC SHOWN. INV INVERT UGE UNDERGROUND ELECTRIC WHON. INV INVERT UGE UNDERGROUND ELECTRIC WHOOLS IPS IRON PIN SET UGT UNDERGROUND TELEPHONE DESIGNED BY: JPM/JMF PROJECT: WATER DISTRIBUTION SYSTEM REVISION REQUIRED POLYVINYL CHLORIDE REQUIRED PROJECT: POLYVINYL CHLORIDE REQUIRED PROJECT: POLYVINYL CHLORIDE REGIFFORCED CONCRETE PIPE REQ'D REQUIRED PROJECT: POLYVINYL CHLORIDE REGIFFORCED CONCRETE PIPE REQ'D REQUIRED PROJECT: POLYVINYL CHLORIDE RESIRANCE CONCRETE PIPE REQ'D RECIFFOR CONCRETE REINFORCED CONCRETE REINFORCED CONCRETE REINFORCED CONCRETE RESIRANCE D'INTERNATION REVISION PULL CHLORIDE RECIFFOR CONCRETE REVISION POLYVINYL CHLORIDE RECY'D RECIFFOR CONCRETE RECY'D RECIFFOR CONCRETE REQ'D RECIFFOR CONCRETE RECY'D R	l 🔊					
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•			ELI	EC ELECTRIC	STA	STATION	
			EL	ELEVATION	S.S.		
			DIF	DUCTILE IRON PIPE	SQ	SQUARE (9)	
			DIA	DIAMETER	SAN	SANITARY	•
			CY	CUBIC YARDS	R/W	RIGHT OF WAY	
			CO	NC CONCRETE	RT	RIGHT	
			CO	CLEAN OUT	RJ	RESTRAINED JOINT	
	,		CM	P CORRUGATED METAL PIPE	REQ'D	REQUIRED	
			C.L	CHAIN LINK	RCP	REINFORCED CONCRETE PIPE	
			CL	CHLORINE	PVC	POLYVINYL CHLORIDE	
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SIGNED BY: JPM/JMF	PROJECT: THE V	REVISION NUMBER:					
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VIEWED BY: DMJ		COVER	SHEET			SHEET	CS-1 NUMBER:
WA NUMBER: 204141	FILE NAME: 4141WL.DWG	DISCIPLINE: CIVIL	SCALE: H: AS NOTE V: N/A		DATE: 10-29-04	1	OF 5

MANHOLE

MECHANICAL JOINT

NOT IN CONTRACT

OVERHEAD POWER LINE

NOT TO SCALE

POLYETHYLENE

ON CENTER