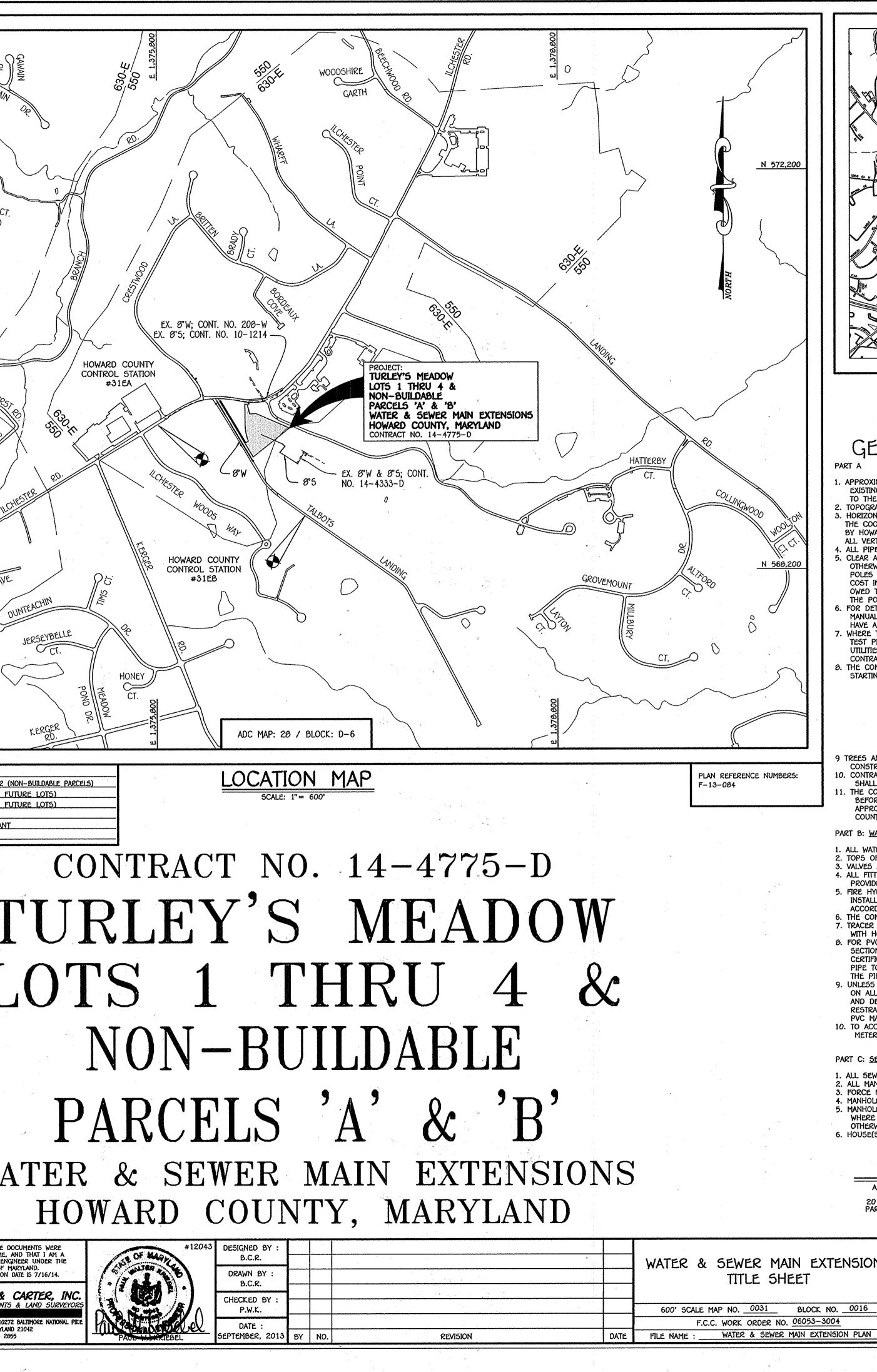
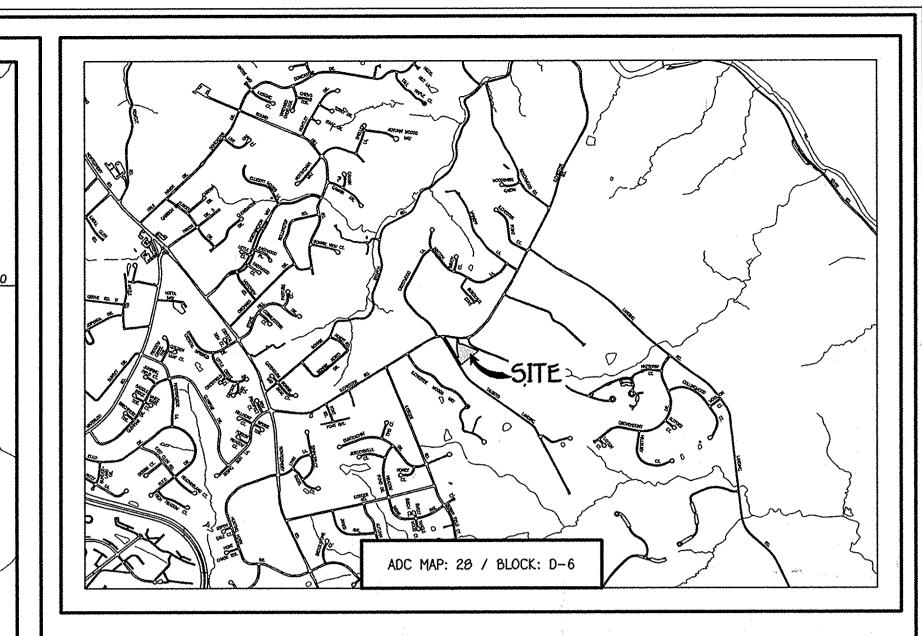
			QUANTITI			No. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	ПЕМ	estimated	QUANTITIES	AS-BUILT TYPE	SUPPLIER	ELLICOTT 400	
	Ø"5	554 L.F.	528 L.F.	8"- SDR35	JM Eagle / BRS	13	GAWAIN
	4"5 MANHOLE	202 L.F. 6 EACH	215 L.F. 6 each	4"-SDR35 STD.4'MH	JM Eagle / BRS Contracters Precast		r
	8"W; C900 PVC; DR-18 6"W; C900 PVC; DR-18	729 L.F. 38 L.F.	730 L.F. 40 L.F.	C900 PVC C900 PVC	JMEagle / National JMEagle / National	CLEARNATE?	RD. (13)
	1-1/2" WHC 2" DEFLECTION COUPLING	235 L.F. 1 EACH	315 L.F. 2 each	Copper PVC	CambridgeLee Pro Line		
	1/16 H.B. 8"X8" TAPPING SLEEVE	1 EACH 1 EACH	leach I each	Epoxy Stain less Steel	Star Pipe Romac Industries		KOLLINGTOP
	8" X6" F.H. TEE	2 EACH	2 each	Epoxy	Star Pipe		
	8" TAPPING VALVE 8" VALVE	1 EACH	l each 1 each	Ероху Ероху	Mueller Mueller	LITTLE DEASTWOOD	
	6" VALVE FIRE HYDRANT	2 EACH 2 EACH	2 each 2 each	Ероху Ероху	Mueller Muellor	E457	00:
	CONTINUITY TEST STATKIN 1" SINGLE OUTSIDE	2 EACH	2each	Concrete	Horne Concrete	CT. NOOD	
	METER SETTING	7 EACH	I each		Mueiler	103	کل مربعہ ک
						8 14	PASTURE
14.1	NAME OF UTILITY C SURVEY & DRAFTIN		BUILT DATE:	· · · · · · · · · · · · · · · · · · ·	· · · ·	Control Hill	
	· · · · · · · · · · · · · · · · · · ·			······································		- Cost	or in
	<u>SENCHMARK INF</u> 1 - HOWARD COUNTY		ION #31EA - HOR	21ZONTAL - NAD '8	3)		34. (T
0.1.1.*	(LOCATED ALONG TI 20.7' NORTH OF W N 569,641.1675	HE SOUTH SIDE	OF ILCHESTER RO	OAD, APPROX. 2' B	EHIND EDGE OF WALK,		HURST
	E 1,374,816.0130 ELEVATION = 463.8	942 - Vertical	(NAVD '66)	•		E S	Bonnin
B.M.#	2 - HOWARD COUNTY (LOCATED ALONG T	CONTROL STAT	ION #31EB - HOR OF TALBOTS LAN	RIZONTAL - (NAD ' DING, APPROX, 19'	83) FROM CENTERLINE OF ROAD	&	Stall Stall
	APPROX. 196' WE5 N 568,731.0273 E 1,376,273.5589	T OF DRIVEWAY	ENTRANCE #5160))		CULT STATUS	State of
	E = 1,376,273.5529 ELEVATION = 452.6	520 - Vertical	(NAVD '88)	• •	·		
	·····				· · · · · ·		
						BOT E	The CT.
							E
				C SYSTEM		N 568,200	I S I
PARCEL 738			ALFRED P.		NDON WELL ABANDON SEP NA YES	TTC SPURE	O FONT AVE.
NOTE:	WATER METERS WILL	NOT BE RELEAS	ED BY HOWARD C	OUNTY TO ANY NEW	W BUILDING UNTIL THE DUNTY HEALTH DEPARTMENT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	REGULATIONS AND TH	E EXISTING DWE	LLING IS CONNECT	TED TO THE PUBLIC	SEWER MAINS.	5	MONT 4
						CUT .	4089 4089
							Sol Criff
			н. Н			WATER ZONE:	550
						WATER TEST GRADIENT	:
	DEVELOP	ER'S CI	RTIFICATI	ON		TYPE OF BUILDING: RESID	ential: single family detached
WILL 1	" I/WE HEREBY CERT BE DONE ACCORDING	IFY THAT ALL D TO THIS PLAN (EVELOPMENT AND	CONSTRUCTION AND PLAN FOR			Cels:7 (3 future buildable); 2 (M
INVOL	ON AND SEDIMENT CON /ED IN THE CONSTRUC DANCE AT THE DEPART	TION PROJECT	WILL HAVE A CERT	TIFICATE OF		NO. OF SEWER HOUSE CO	
PROGR THE P	RAM FOR THE CONTROL PROJECT. I ALSO AUTHO	L OF SEDIMENT ORIZE PERIODIC	AND EROSION BE ON-SITE INSPECT	FORE BEGINNING NON BY THE			PSCO WASTEWATER TREATMENT PLANT OF BALTIMORE
ARE C	RD SOIL CONSERVATION DEEMED NECESSARY."	Δ	THEIR AUTHORIZED	Agento, Ad		· .	
BL	aul W. Kowl IRKARD HOMIE	S LLC.	09-1	8-13			
SIGNA	TURE OF DEVELOPER		D.	ATE	,		
	ENGINE	<u>ER'S CE</u>	RTIFICATIO	<u>DN</u>			
	" I HEREBY CERTIFY OL REPRESENTS A PR	ACTICAL AND W	ORKABLE PLAN BA	ased on my			
PREPA	NAL KNOWLEDGE OF T RED IN ACCORDANCE ERVATION DISTRICT."						
D	01111/00	0.(nali	alia			
5IGNA	TURE OF ENGINEER	vel		OLD ATE			
SEDIM	ENT CONTROL MEASUR MENTED IN ACCORDANC	es for this c	ONTRACT WILL BE			а. А. С.	
HOWAS	RD COUNTY DESIGN MA	NUAL – VOLUM ND DETAILS FO	1E N:			en an	
AND	AS SHOWN ON F-13-	bel; FOR					• • • • • • • • • • • • • • • • • • •
Bi	IRKARD HOME	es, LL.C	<u>. 09-1</u>	18-13 ATE		• • •	
SIGNA	TURE OF DEVELOPER	-			LEGEND)	
	F	-13-0	84		SYMBOL DE	SCRIPTION	
	DEVELOPMENT IS APPR 20L BY HOWARD SOIL			мт	ex. sewer main		
APPRO			,		EX. WATER & SEV PROP. WATER MAI	IN	WA
	alm R Ral-	too	10/4	//3	PROP. SEWER MA PROP. WATER & PROP. WHC	un Sewer easement	
HOYA	RD SOIL CONSERVATION	DISTRICT	D	DATE	PROP. WHC		
ner	PARTMENT C	F DI IQI	IC MOOR	5 DEDAG	TMENT OF PLAI	NNING AND ZONIN	I HEREBY CERTIFY THAT THESE DO
	HOWARD COU	NTY, MARYLAND	TC WOKK		HOWARD COUNTY, M	ARYLAND	PREPARED OR APPROVED BY ME, A DULY LICENSED PROFESSIONAL ENG LAWS OF THE STATE OF M
							LICENSE NO. 12043 EXPIRATION
							FISHER, COLLINS & CIVIL ENGINEERING CONSULTANTS 88
Chirer and	the Clen		9 24/13		VELOPMENT ENGINEERING DIVIS	510N Date M	CENTENNIAL SQUARE OFFICE PARK - 10272 ELLICOTT CITY, MARYLAND (410) 461 - 285
CHIEF, BU	REAU OF UTILITIES		DATE	CHIEF, DE	reconnent engineering divis	UALE NG	(110) 101 - 200





VICINITY MAP SCALE: 1" = 2000'

GENERAL NOTES

PART A

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- 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 SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- . TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT MARCH, 2012 BY FISHER, COLLINS & CARTER, INC. 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS: 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. 31EA & NO. 31EB. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-O' 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 BRACING OF ADDITIONAL POLES. ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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 DRAWINGS, 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 A COPY OF VOLUME IV ON THE JOB SITE. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE 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. 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS

LAND:	
AT&T	
BGE (CONTRACTOR SERVICES)	
BGE (EMERGENCY)	4
BUREAU OF UTILITIES	
COLONIAL PIPELINE CO	
MI55 UTILITY	
STATE HIGHWAY ADMINISTRATION	
VERIZON	/ 410-224-9210

- 9 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. 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 THE 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.

PART B: WATER MAIN GENERAL NOTES

- 1. ALL WATER MAINS SHALL BE AWWA C900 PVC; DR-18. 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 THE DRAWINGS. 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 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 D.I.P. AND PVC WATER MAINS IN ACCORDANCE
- WITH HOWARD COUNTY DESIGN MANUAL.
- 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 RECEIVED. 9. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (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 SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
- 10. TO ACCOMMODATE A SPRINKLER SYSTEM, ALL DWELLING UNITS SHALL HAVE A 1-1/2" CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.28.

PART C: SEWER MAIN GENERAL NOTES

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-O' INSIDE DIAMETER UNLESS OTHERWISE NOTED. 3. FORCE MAINS SHALL BE D.I.P. ONLY.
- 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. 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 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.

OWNER		DEVELOPER	CONTRACT NO. 14-4775-D		
	ALFRED P. TURLEY & SUSAN M. TURLEY 2010 127th TERRACE E. PARRISH, FLORIDA 34219	TIM BURKARD 5300 DORSEY HALL DRIVE SUITE 102 ELLICOTT CITY, MARYLAND 21042	TURLEY'S MEADOW LOTS 1 THRU 4 & NON-BUILDABLE PARCELS 'A' & 'B' WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND		
EXTENSI T	ONS	TURLEY'S MEADOW LOTS 1 THRU 4 & NON-BUILDABLE PARCELS 'A' &	' B'	SCALE AS SHOWN	
DOCK NO. <u>001</u> 053-3004 N EXTENSION PL		WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4775-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	میں ہے۔ انہوں ہے اور	SHEET 1 OF 3	

