CITY OF MINNEOLA CITRUS GROVE ROAD UTILITY RELOCATES



JUNTAUT INFORMATION FOR THE UTILITIES:							
CONTACT	PHONE						
ATTN: DAYRRL WARD	(407) 501-2132						
ATTN: FRED MILLER	(352) 516-3929						
ATTN: MIKE POTVIN	(813) 624-3478						
ATTN: ETHAN PARDUE	(352) 748-8712						
ATTN: RANDY COOK	(407) 656-2734						
ATTN: J.D. PURCELL	(352) 569-9639						
	CONTACT ATTN: DAYRRL WARD ATTN: FRED MILLER ATTN: MIKE POTVIN ATTN: ETHAN PARDUE ATTN: RANDY COOK ATTN: J.D. PURCELL						

THIS LISTING IS NOT WARRANTED OR REPRESENTED TO BE ALL-INCLUSIVE OF THE UTILITIES IN THE AREA

		PIPING MATI	ERIAL SCHEDULE			
MADK	REDVICE		BURIED PIPE		BURIED FI	TTINGS
MARK	SERVICE	MATERIAL	CLASS	LINING	MATERIAL	LINING
10/0.4	POTABLE WATER ≤ 12"	PVC OR DI	DR18 OR PC350	N/A OR CEMENT	DI	CEMENT
V VIVI	POTABLE WATER > 12"	DI	PC250	CEMENT		CEMENT
DW/	POTABLE WATER ≤ 12"		DR18 OR PC350	N/A OR	DI	CEMENT
LA14	POTABLE WATER > 12"	I VO OK DI	DR18 OR PC250	CEMENT		CEMENT
EM	FORCE MAIN ≤ 12"	PV/C	DR18	N/A	DI	CEMENT
1 IVI	FORCE MAIN > 12"	140	DR18	1		CEMENT
NOTES						

1. ALL MATERIAL WHICH COMES INTO CONTACT WITH POTABLE WATER SHALL BE NSF STANDARD 61 APPROVED OR USE WITH POTABLE WATER. POR USE WITH POTABLE WATER. 2. PVC PIPING FOR POTABLE SHALL BE BLUE, REUSE SHALL BE PURPLE, AND SEWER SHALL BE GREEN. DUCTILE IRON PIPING SHALL BE MARKED IN ACCORDANCE WITH SPECIFICATIONS 15050.

SHEET NO.	SHEET TITLE
_	COVER SHEET
G-001	LEGEND AND ABBREVIATIONS
G-002	KEY MAP
V-101	EXISTING CONDITIONS AND DEMOLITION PLAN
V-102	EXISTING CONDITIONS AND DEMOLITION PLAN
V-103	NOT USED (NOT INCLUDED)
V-104	NOT USED (NOT INCLUDED)
V-105	EXISTING CONDITIONS AND DEMOLITION PLAN
C-101	CITRUS GROVE RD - PLAN AND PROFILE
C-102	CITRUS GROVE RD - PLAN AND PROFILE
C-103	CITRUS GROVE RD - PLAN AND PROFILE
C-104	CITRUS GROVE RD - PLAN AND PROFILE
C-105	NOT USED (NOT INCLUDED)
C-106	NOT USED (NOT INCLUDED)
C-107	NOT USED (NOT INCLUDED)
C-108	CITRUS GROVE RD - PLAN AND PROFILE
C-109	GRASSY LAKE RD - PLAN AND PROFILE
C-501	DETAILS
C-502	DETAILS
C-503	DETAILS

Know what's **below**. Call before you dig. SUNSHINE STATE ONE CALL OF FLORIDA





GENERAL NOTES

- CONTRACTOR MUST COORDINATE ALL UTILITIES CONSTRUCTION AND SEQUENCING WITH THE ROADWAY PLANS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH, AND CHARACTER OF ALL UTILITES A TRIOR TO CONSTRUCTION, THE CONTRACTORS HALL NOTFY SUMSHINE ONE-CALL AND ALL UTILITES AT LEAST 144 HOURS IN ADJANCE OF WORK AND SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITES. THE CONTRACTORS SHALL BRE REPORTS AND ECAN AND ALL UTILITES AT LEAST 144 HOURS IN ADJANCE OF WORK AND SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITES AT LEAST 144 HOURS INSURES AND AMAZE CAUSED BY THEIR
- THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.
- ALL PIPE AND FITTINGS SHALL BE PRESSURE TESTED AS SPECIFIED IN SECTION 15044 (150PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE AND REUSE MAINS, 100PSI FOR A MINIMUM DURATION OF 2 HOURS FOR POTABLE
- 5. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS. WASTEWATER OR STORMWATER MAINS OR RECLAIMED WATER PIPE LINES. A NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN OR PIPE LINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 FAC.
- B. NEW OR RELOCATED. UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET AND PREFERABLY TEN FEET. BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER. WASTEWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PARTIL OF CHAPTER 52610 FG. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
- C NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM". 6. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PIPELINES.
- A NEW OR RELOCATED. UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-TYPE SANTARY SEVER OR STORM SEVER SHALL BE LAD SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SXI MCHES, AND PREFERABLE 10 LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE 10 LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- B. NEW OR RELOCATED, UNDERGROUND WATER MANNS CROSSING ANY EXISTING OR PROPOSED WASTERWATER OR STORMWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID TO THE OUTSIDE OF THE OTHER MATER AND AND THE OTHER PIPELINE. HOWEVER, IT IS PREFERRALE TO LAY THE WATER MANN ADDRET HE OTHER PIPELINE.
- C. AT THE UTULTY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE. SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN STORM SEVERS AND AT LEAST SIX FEET FORM ALL JOINTS IN GRAVITY-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAMED WATER REGULATED UNDER PART III OF CHAPTER SAID FACTORS SIDE FROM THE OTHER PIPELINE. SO THE WATER MAIN JOINTS IN GRAVITY-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAMED WATER REGULATED UNDER PART III OF CHAPTER SAID FACTORS.
- WATER MAINS SHALL NOT BE CONSTRUCTED OR ALLOWED TO PASS THROUGH OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE. THE NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THESE STORMWATER STRUCTURES
- 8. ALL PIPING SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE NOTED, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE FLEVATIONS AND ALIGNMENTS.
- 9 ALL AREAS WHERE LANDSCAPE OR SOD HAS BEEN REMOVED BY CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND.
- 0. FITTINGS MAY BE USED FOR PIPE ALIGNMENT CHANGES RATHER THAN DEFLECTING JOINTS AT THE CONTRACTOR'S EXPENSE.
- . DEWATERING MAY BE REQUIRED IN SOME AREAS TO ACHEVE THE NECESSARY EXCAVATION AND SUBSEQUENT CONSTRUCTION, BACKFILLING, AND COMPACTING. NO EXTRA COMPENSATION FOR DEWATERING WILL BE ALLOWED. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL PERMITS AND PAY ALL FEES ASSOCIATED WITH DEWATERING & OTHER CONSTRUCTION ACTIVITIES.
- 2. PRIOR TO HIS BID PREPARATION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS HE DETERMINES NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFF SITE, AND MATERIALS TO BE DISPOSED OF OFF SITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACT MAY HAVE TO BRING IN MERIALS AT NO ENTRA COSTERIOR OFFSITE TO MERIT THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
- 13. IF IT IS DETERMINED THAT UTILITY POLES REQUIRE HOLDING OR RELOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THEIR HOLDING AND/OR RELOCATION.
- 14. THE CONTRACTOR SHALL NOT PLACE ANY FILL MATERIALS WITHIN A WETTED DITCH OR WETLAND AREA WHEN WORKING ADJACENT TO EITHER TYPE OF AREA. SILT FENCING AND/OR TURBIDITY BARRIERS SHALL BE UTILIZED WHERE NECESSARY.
- 15. UNLESS OTHERWISE NOTED, ALL UNDERGROUND PIPE FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT IN ACCORDANCE WITH SECTION 15050 OF THE PROJECT MANUAL AND DETAILS.
- 16. ALL PAVING, STABILIZED EARTH, DRIVEWAYS, CURBS, CULVERTS, SIDEWALKS, FENCES, SOD, LANDSCAPING, ETC. DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED WITH MATERIAL TO MATCH EXISTING.
- 17. ALL DRAINAGE AREAS THAT ARE CROSSED BY PIPELINES SHALL BE LEFT OPEN AT ALL TIMES EXCEPT FOR SHORT PERIODS AS MAY BE NECESSARY DURING ACTUAL CONSTRUCTION HOURS.
- 18. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A STATE OF FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR FOR RESTORING ALL MONUMENTS AND PROPERTY CORNERS DISTURBED DURING CONSTRUCTION. PROOF OF REGISTRATION SHALL BE SUBMITTED TO ENSIDER.
- 19. THE CONTRACTOR SHALL LOCATE ALL UTILITY MAINS AT PROPOSED TIE-IN LOCATIONS TO VERIFY ACTUAL LOCATION. SIZE. ELEVATION, AND MATERIAL PRIOR TO ORDERING NEW MATERIALS.
- 20. EXISTING UTILITY MANISTOR FEMALINI SERVICE TO THE MAXIMUM EXTENT POSSIBLE. CONTRACTOR TO COORDINATE WITH CITY OF PUBLIC WORKS DIRECTOR FRED MILLER 352-516-3293. A MINIUM OF TWO FUL WORKING DAYS FRIOR TO ANY DISRUPTION OF SERVICE. CONTRACTOR TO COORDINATE WITH CITY UPUBLIC WORKS DIRECTOR FRED MILLER 352-516-3293. A MINIUM OF TWO FUL WORKING DAYS FRIOR TO ANY DISRUPTION OF SERVICE. CONTRACTOR TO COORDINATE WITH CITY UPUBLIC WORKS DIRECTOR FRED MILLER 352-516-3293. A MINIUM OF TWO FUL
- 21. ALL POTABLE WATER MANINE STHERE NOTALED OR DISTURBED DURING CONSTRUCTION SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-651-92. SUBSECTION 4 AND SECTION 9 SUCH WATER MANIS HALL THEN BE BACTERICLOGICALLY TESTED IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. A REPRESENTATIVE FROM THE UTILY MWIST BE PRESENT DURING THE LAWING OF ALL WATER SAMPLES.
- 22. INSTALLATION OF THE PROPOSED UTILITY LINES TO BE DONE IN ACCORDANCE WITH THE CITY OF MINNEOLA. STANDARD DRAWINGS AND SPECIFICATIONS.
- 23. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE ROADWAY SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRER WALL AT THE CONTRACTORS EXPENSE.
- 24. F REQUIRED, THE CONTRACTOR SHALL AT HIS EXPENSE PROVIDE MAINTENANCE OF TRAFFIC (M.O.T.) FOR THE PROJECT. THE M.O.T. SHALL BE SUBMITTED TO THE COUNTY AND ENGINEER FOR REVIEW, ALL M.O.T. LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED BEFORE \$400 PM. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC ACTIVITIES, COORDINATION & PREMITTING AS REDUIRED BY THE CITY, COUNTY AND STATE CODE WHERE APPLICABLE.
- 25. SHEETING AND SHORING WILL BE REQUIRED TO CONFORM WITH THE "FLORIDA SAFE TRENCH ACT" REQUIREMENTS WHERE NECESSARY TO PROTECT EXISTING PAVEMENT STRUCTURES AND FOUNDATIONS
- 26. CONTRACTOR SHALL BE A LICENSED UNDERGROUND UTILITY CONTRACTOR WITH THE STATE OF FLORIDA AND LAKE COUNTY.
- 27. A NOTICE OF TWO FULL WORKING DAYS MUST BE PROVIDED TO THE OWNERS INSPECTOR PRIOR TO FLUSHING AND TESTING, INSPECTOR MUST BE PRESENT DURING PRESSURE TESTING, DISINFECTING, AND WATER SAMPLING FOR POTABLE WATER MAINS.
- 28. TRACER WIRE SHALL BE PROVIDED AS REQUIRED BY CITY STANDARUS. AT A MINIMUM THE TRACER WIRE SHALL MEET CITY OF MINNEOLA AND LAKE COUNTY SPECIFICATION AND BE MINIMUM #14 GAUGE COLOR COATED (BLUE FOR POTABLE WATER, GREEN FOR SEWER, PURPLE FOR REUSE), AND SHALL BE TESTED TO INSUBJE CONTINUTY BETWEEN ACCESS POINTS. THE CONTRACTOR SHALL DEMONSTRATE TO THE CITY THAT THE WIRE IS CONTINUOUS AND LINBROKEN THROUGH THE ENTIRE RUN OF PIER BY REVIDING FULL SIGNAL CONDUCTIVITY (INCLIDING SPLICES) WHEN EVERSIZING FOR THE ENTIRE RUN NTHE PRESENCE OF THE INSPECTOR. DEFECTS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. POSITION & TERMINATE LOCATOR WIRES AS DEPICTED IN MISCELLANEOUS DETAILS.
- 29. DUCTLE IRON PIPE AND FITTINGS SHALL BE EXCASED IN POLYETHYLENE TWENTY (20) FEET ON EACH SOE OF ANY CROSSING OF METALLC GAS MAINS, ELECTRIC TRANSMISSION EASEMENTS AND TRANSMISSION STRUCTURES AS OUTLINED IN AWIMA CIGNANIS 4215, ALL PIPHING LOCATED WITH THESE TRANSMISSION EASEMENTS AND BRANCH
- 30. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE ACCURATELY RECORDED ON THE CONSTRUCTION RECORD DRAWINGS. THE OWNER SHALL BE IMMEDIATELY NOTIFIED OF ANY CODIFICIENT UTILITIES EXPOSED DURING CONSTRUCTION
- 31. CONTRACTOR SHALL REMOVE AND REPLACE ALL SIGNS, MAILBOXES, FENCING, DRAINAGE STRUCTURES, ETC. AS REQUIRED TO COMPLETE THIS PROJECT. ALL SUCH RESTORATION SHALL BE COMPLETED IMMEDIATELY FOLLOWING PIPE INSTALLATION & BACK FILLING & SHALL BE INCLUDED IN CONTRACTORS PRICE FOR PROJECT.
- 32. THE CONTRACTOR SHALL SEQUENCE WORK PROGRESS TO MAINTAIN UNINTERRUPTED UTLITY SERVICE AS MUCH AS POSSIBLE DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. CONTRACTOR SHAL COORDINATE ANY SCHEDULED TE INS. DISCONTINUED SERVICE: ADA PUBLIC NOTIFICATIONS WITH CITY PUBLIC WORKS DIRECTOR, FREE MULEI 33:545-349, PRIOR TO INTERRUPTING SERVICE.
- 33. CONTRACTOR WILL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING SPECIFICALLY INDICATED ON THE CONTRACT DOCUMENTS OR SPECIFIED IN THE SPECIFICATIONS AND MAY AT ANY OTHER TIME ELECT TO HAVE MATERIALS AND EQUIPMENT TESTED FOR CONFORMITY WITH THE CONTRACT DOCUMENTS.
- 34, CONTRACTOR SHALL COOPERATE WITH THE LABORATORY TO FACILITATE THE EXECUTION OF ITS REQUIRED SERVICES.
- 35. CONTRACTOR SHALL PROVIDE ENGINEER WITH ALL TEST RESULTS HEREIN WITHIN FIVE (5) DAYS OF RECEIPT.
- 36. THE FOLLOWING SCHEDULE DEFINES THE RESPONSIBILITIES OF VARIOUS TESTS.

TEST	NOTES	PAID FOR BY
SOIL COMPACTION	PIPE WORK: EVERY 300 FT. AT EACH LIFT OF COMPACTION MINIMUM. BENEATH STRUCTURES: EACH 500 SF EACH LIFT OF COMPACTION MINIMUM.	CONTRACTOR
PRESSURE	AS SPECIFIED IN SECTION 15044.	CONTRACTOR
BACTERIOLOGICAL	AS REQUIRED BY LOCAL AND STATE AGENCIES AND AS SPECIFIED IN SECTION 15050.	CONTRACTOR
LBR	EACH 600 SF OF PAVEMENT MINIMUM.	CONTRACTOR

ADDITIONAL TESTS: IN THE EVENT THAT FIRST TEST SAMPLES DO NOT MEET THE APPLICABLE MATERIAL SPECIFICATION CONTRACTOR SHALL TAKE MEASURES TO CONFORM THE MATERIAL AND EQUIPMENT TO THE SPECIFICATIONS, ALL TESTS ENDIFIED TO SHOULD BE TO THE SPECIFICATIONS, ALL TESTS ENDIFIED TO SHOULD BE TO THE SPECIFICATIONS ALL TESTS IN THE SPECIFICATION SHOULD BE TO SHOULD

201 EAST PINE STREET, SUITE 1000 ORLANDO, FLORIDA 32801 PHONE: (407) 839-3955 FAX: (407) 839-3790

> Engineering Business No. 2429 www.tetratech.com

PROJECT LOCATION:

CITRUS GROVE FROM GRASSY LAKE ROAD TO NORTH HANCOCK ROAD



CLIENT INFORMATION:

CLIENT PROJECT No.

CITY OF MINNEOLA 800 N. US HWY 27 MINNEOLA, FLORIDA 34715

Tt PROJECT No .:

200-08520-17002

PROJECT DESCRIPTION / NOTES:

THE CITY OF MINNEOLA INTENDS TO RELOCATE EXISTING UTILITIES ALONG CITRUS GROVE ROAD BETWEEN GRASSY LAKE ROAD AND NORTH HANCOCK ROAD AS REQUIRED FOR THE CONSTRUCTION OF CITRUS GROVE ROAD IMPROVEMENTS BY LAKE COUNTY. IN ADDITION, EXTENSION OF CITY REUSE TO GRASSY LAKE ROAD TO SERVE FUTURE DEVELOPMENT IS PROPOSED.

ISSUED:

OCTOBER 2017



Digitally signed by Bur Reardon DN: c=US, o=IdenTrust ACES Business Representative ou=Tetra Tech. cn=Burl Reardon 0.9.2342.19200300.100 .1.1=A01097C0000015 C218690C30001 Date: 2017.10.24 17:26:40 -04'00'

Burl D. Reardon, P.E P.E. No. 64037, FL

201 East Pine Street, Suite 1000 Orlando, Florida 32801 Engineering Business No. 242

DATE

VICINITY MAP:



LIST	OF STANDARD ABBRE	VIATIC	DNS					PIPING LEGI	END						SURVEY	LEGEND	
A AAP	ALARM ANNUNCIATOR PANEL	DWG DWV	DRAWING DRAIN, WASTE, AND VENT	LAV LEN	LAVATORY LENGTH	RPM	BACKFLOW PREVENTER REVOLUTIONS PER MINUTE				FLAN	GED	MECHAI	NICAL JOINT	CONCRET	E BLOCK WALL	
AARV AAV	AUTOMATIC AIR RELEASE VALVE AUTOMATIC AIR VENT	Ē	EAST	LB LF	POUND(S) LINEAR FEET	RR RT	RAILROAD RIGHT	FITTING/ APPURTENANCE	SINGL	_E-LINE	DOUB	E-LINE	DOUB	LE-LINE		UTILITY POLE E UTILITY POLE E	CABLE TAG TELEPH
AB ABAN ABRSV	ANCHOR BOLI ABANDON(ED) ABRASIVE	EB ECC	EACH ELECTRIC RISER ECCENTRIC	LP LS LSS	LIGHT POLE LIME SLURRY LIME STABILIZED SLUDGE	RW	RIVETED RAW WATER RAW WASTEWATER		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED		- HOR 'LIGHT	A/C AIR COL
ABS	ACRYLONITRILE BUTADIENE STYRENE	EF EFF	EACH FACE EFFLUENT	LVR LWL	LOUVER LOW WATER LEVEL	R/W	RIGHT-OF-WAY	BEND			<u> </u>	<u></u>	<u>A</u> P			END SECTION AL OUTLET VE RISER	
ABV AC	ABOVE ALTERNATING CURRENT	E/L EL	EASEMENT LINE ELEVATION	M	METER	S S	SOUTH SAMPLE LINE		+	+	IJ	ਧ				RANT WATER ASSEMBLY	O.R. OFFICIAL P.R.M. PERMAN
ACP	CORRUGATED METAL PIPE ASBESTOS CEMENT PIPE	ELEC	ELECTRICAL EMERGENCY	MAINT MAN	MAINTAIN OR MAINTENANCE MANUAL(LY)	SAN SCHEI	SANIFLE LINE SANITARY D SCHEDULE	TEE	+			┍ <mark>┛^{┷╋}</mark> ┓		a ^{5†} Ch	SEWER V	ALVE ALVE	FDOT FLORIDA C.C.R. CERTIFIE N.G.V.D. NATION
ADDM ADH	ADDENDUM ADHESIVE	EMC ENGR	ENCASE(MENT) ENGINEER	MAS MATL	MASONRY MATERIAL	SD SE	STORM DRAIN SOUTHEAST		1 1					цµ Хо		D WATER VALVE	F.F. FINISHE NHW NORMAL
AFF AFG AFS	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	EP EPDM	EDGE OF PAVEMENT ETHYLENE PROPYLENE DIENE	MAX MB MCC	MAXIMUM MAILBOX MOTOR CONTROL CENTER	SECT SEFF	SECTION SECONDARY EFFLUENT SOLUARE FOOT OR FEET	WYE	+	+4	r h	ਜਿ∕ੀਜ਼	g h	et Z	RV IRRIGATIO	D WATER METER N VALVE	SITE BE PHONE
AHD	AHEAD ALUMINUM	EPRF EQUIP	EXPLOSION PROOF EQUIPMENT	ME MECH	MITERED END MECHANICAL	SHT SIG	SHEET(ED)(ING) SIGNAL								BIPP	ASE VALVE DW PREVENTER	
ALT AMP	ALTERNATE AMPERE	ER ESTM	ECCENTRIC REDUCER EASEMENT	MEG MFR	MATCH EXISTING GRADE MANUFACTURE(R)	SIM SL	SIMILAR SLUDGE	REDUCER				₽₽₽		¶≫⊫		E	
AMT APPRO	AMOUNT X APPROXIMATE(LY)	EST ET	ESTIMATE(D) ELECTRIC TRANSFORMER EACH WAY	MG MGD MH	MILLION GALLONS MILLION GALLONS PER DAY MANHOLE	SLV SM SOLN	SLEEVE SHEET METAL SOLUTION	CAP/								MANHOLE	GM GAS ME
ARV AS	AIR RELEASE VALVE ALUM SOLUTION	EXC	EXCAVATE EXPANSION	MI MIN	MILE(S) MINIMUM, MINUTE(S)	SP SPEC	SOIL PIPE, SPACE(ING) SPECIFICATION	BLIND FLANGE	N/A	N/A	لينت ا	<u> </u>	N/A	N/A	G GREASE T	E MANHOLE TRAP MANHOLE	
ASPH ASSY	ASPHALT ASSEMBLY	EXST EXST G	EXISTING R EXISTING GRADE	MISC MJ	MISCELLANEOUS MECHANICAL JOINT	SPRT SQ	SUPPORT SQUARE	PLUC			N/A	NI/A		1	P Power M BARBED	ANHOLE MRE FENCE (BWF) NCF (WF)	
A/C A/VV	AVENDE AIR CONDITIONING AIR/VACUUM AIR VALVE	EXTN	EXTENSION	MO	MASONRY OPENING MONUMENT	SSE SST	SUBSTANDARD EFFLUENT STAINLESS STEEL	1200		L 1	11/7	19/15				IK FENCE (CLF)	⊗ well % clean-
в		<u>F</u> FAB	FABRICATE(D)	MOT MPH	MAINTENANCE OF TRAFFIC MILES PER HOUR	ST STA	STREET STATION	BUTTERFLY	-++			ette		│ <u>╒</u> ╌ ╟ ╢╌╕		ASIN	
BAF BCV	BAFFLE BALL CHECK VALVE	FCA FB	FLANGED COUPLING ADAPTER FLAT BAR	MPT MS	MALE PIPE THREAD MOTOR STARTER	STD STK	STANDARD STAKE	VALVE								ET ET WITHOUT MANHOLE	
BF BFP	BLIND FLANGE BACKFLOW PREVENTER	FD FDN	FLOOR DRAIN FOUNDATION	MTD	MOUNTED MOTORIZED VALVE	STR	STRAIGHT CT STRUCTURAL	BALL VALVE	-181-	-161-	E X B	€₩₽	N/A	N/A	Se FIRE DEP.	ARTMENT CONTROL VALVE	C CENTER L.B. LICENSE
BFV BHP	BUTTERFLY VALVE BRAKE HORSEPOWER	FE FHY	FILTER(ED) EFFLUENT FIRE HYDRANT	MW MWL	MANWAY MEAN WATER LEVEL	SURF SV	SURFACE SOLENOID VALVE										P.S.M. PROFES MAPPER P.L.S. PROFES
BI BITUM B/	BLACK IRON BITUMINOUS OR BITUMASTIC BASELINE	FIG FIN FIN FI R	FIGURE FINISH(ED) FINISH ELOOR	MWP N	MAXIMUM WORKING PRESSURE	SVCE SVW	SERVICE SERVICE WATER	CHECK VALVE				₽₽₽	N/A	N/A			PVC POLYMN RCP REINFOR
BLDG BLK	BUILDING BLOCK	FIN GR FL	FINISH GRADE FLUORIDE	N NaOCI	NORTH SODIUM HYPOCHLORITE	SWD SWSH	SIDEWATER DEPTH SURFACE WASH										CMP CORRUG DIP DUCTILE VCP VITREOU
BM BOC	BENCHMARK BACK OF CURB	FLG FLL	FLANGE(D) FLOW LINE	ND NE	NAIL DISK NORTHEAST	SYM SYMM	SYMBOL SYMMETRICAL	GATE VALVE				€₽₩₽		EXE	ŀ		CPP CORRUG
BOI BP BRG	BOTTOM BASE PLATE BEARING	FLIR FM FO	FILTER FORCE MAIN FIBER OPTIC	NIC NO NOM	NOT IN CONTRACT NUMBER NOMINAL	S/W	SIDEWALK							_ n _n			
BSP BT	BLACK STEEL PIPE BURIED TELEPHONE	FPM FPS	FEET PER MINUTE FEET PER SECOND	NPF	NATIONAL PIPE THREAD NATIONAL PIPE TAPER	Ťan tb	TANGENT TOP OF BEAM	PLUG VALVE				<u>╶</u> ╤ <u></u> ╋╣╤┹			÷		
BV BW	BALL VALVE BOTH WAYS	FRP	FIBERGLASS REINFORCED PLASTIC	NPW	(THREAD) NON-POTABLE WATER	TBM TB-xx	TEMPORARY BENCH MARK TEST BORING-xx (e.g. TB-1)	AUTOMATIC		Ĵ			NI/A	N/A			
C	BACKWASH WATER	FUT	FOUT OR FEET FUTURE FOOT VALVE	NKS NTS NW	NON-RISING SYSTEM NOT TO SCALE NORTHWEST	TDH TE	TOTAL DYNAMIC HEAD TOTAL LY ENCLOSED	CONTROL VALVE					N/A	N/A			
CAP CA	CAPACITY COMPRESSED AIR	FW FWP	FINISHED WATER FACTORY WIRED PANEL	N/A	NOT APPLICABLE	TEFC	TOTALLY ENCLOSED FAN COOLED	PINCH VALVE	%1				N/A	N/A			
CAV CB	COMBINATION AIR VALVE CATCH BASIN	F/F	FACE TO FACE	0 02	OXYGEN	TEL TENV	TELEPHONE TOTALLY ENCLOSED		101	P.01	-lloll-				11		
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CCC CE CFM	CHLORINE CONTACT CHAMBER CHLORINATED EFFLUENT CUBIC FEET PER MINUTE	GA GAL	GAUGE GALLON(S)	OD ODP	ON CENTER OUTSIDE DIAMETER OPEN DRIP PROOF	THD THK	NON-VENTILATED THREAD(ED) THICK(NESS)										
CCC CE CFM CFS CV	CHLORINE CONTACT CHAMBER CHLORINATED EFFLUENT CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHECK VALVE	GA GAL GALV GIP	GAUGE GALLON(S) GALVANIZED GALVANIZED IRON PIPE	OD ODP OF OH	ON CENTER OUTSIDE DIAMETER OPEN DRIP PROOF OUTSIDE FACE OVER HEAD	THD THK TLM TOB	NON-VENTILATED THREAD(ED) THICK(NESS) TELEMETRY TOP OF BANK	CIVIL LEGEN	1D				RE	EFERENC	E SYMBOLS		
CCC CE CFM CFS CV CI CIP CISP	CHLORINE CONTACT CHAMBER CHLORINATED EFFLUENT CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHECK VALVE CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE	GA GAL GALV GIP GJ GND GPD	GAUGE GALLON(S) GALVANIZED GALVANIZED IRON PIPE GROOVE JOINT GROUND GALLONS PER DAY	OC OD OF OH OHE OHW OPP	ON CENTER OUTSIDE DIAMETER OPEN DRIP PROOF OUTSIDE FACE OVER HEAD OVER HEAD ELECTRIC OVER HEAD WIRE OPPOSITE	THD THK TLM TOB TOC TOS TOT	NON-VENTILATED THREAD(ED) THICK(NESS) TELEMETRY TOP OF BANK TOP OF CURB TOE OF SLOPE TOTAL		1D		PROPERTY L	INE	RE	EFERENC	E SYMBOLS	DENOTES SECTIO	N
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