

GENERAL NOTES

- THE ELEVATIONS SHOWN HEREON ARE NAVD 1988 DATUM. ELEVATIONS SHOWN HEREON WERE BASED ON AN ELEVATION OF 157.834 FEET (NGVD 1929 DATUM) ON FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK "BM4", BEING A CONCRETE MONUMENT WITH BRASS DISK STAMPED "2602006 BM-26-97-A-0" AT THE APPROXIMATE SOUTH RIGHT-OF-WAY LINE OF US 441 AND +/- 1,200 SOUTHEAST OF THE CENTERLINE OF SW 89TH ST. FOR THE PURPOSES OF THIS SURVEY, THIS ELEVATION WAS CONVERTED TO 157.04 FEET (NAVD 1988 DATUM) WITH CORPSCON V6.0.1, U.S. ARMY CORPS OF ENGINEERS.
- COORDINATES SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- BEARING AND DISTANCES SHOWN IN PARENTHESIS () REFER TO PLAT OR LEGAL DESCRIPTION WHERE THEY DIFFER FROM FIELD MEASUREMENT.
- ALL WORK PERFORMED WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION)
 - FDOT STANDARDS INDEX (CURRENT EDITION)
 - FDOT PLANS PREP MANUAL (CURRENT EDITION)
 - FDOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION
 SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THE PLANS AND THE DEPARTMENT OF TRANSPORTATION STANDARDS THE ENGINEER/PERMITEE SHALL IMMEDIATELY CONFER WITH THE DEPARTMENT'S ENGINEER IN ORDER TO RESOLVE THE DISCREPANCY. IN NO CASE WILL ANYTHING LESS THAN THE DEPARTMENT'S MINIMUM STANDARD BE ALLOWED.
 - ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.
 - REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES/SCARS PAVEMENT, THEN THE PAVEMENT SHALL BE MILLED AND RESURFACED PER FDOT STANDARDS.
 - ALL DISTURBED AREA WITHIN THE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE DISTURBED AREA (BERMUDA IN RURAL, CENTIPEDE IN UTILITY STRIPS)
- ALL MATERIALS, EQUIPMENT, INSTALLATION AND TESTING PERTAINING TO THE CONSTRUCTION OF THE SANITARY SEWER EXTENSION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF ALACHUA DESIGN STANDARDS AND CONSTRUCTION DETAILS. COMPLETE MATERIAL STANDARDS, AND POLICY & PROCEDURES MANUAL THAT CAN BE FOUND AT http://www.cityofalachu.com/mages/Departments/Public_Services/2017_design_construction_requirements.pdf
- CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING FDEP PERMIT CONDITIONS.
- COMPLIANCE OF THE "TRENCH SAFETY ACT" IS REQUIRED FOR ALL EXCAVATIONS IN EXCESS OF 5 FEET DEEP. ALL TRENCH EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE CITY OF ALACHUA SURVEYOR AT 386-4718-6140
- NO UNDERGROUND UTILITIES HAVE BEEN FIELD LOCATED. NO SEARCH OF PUBLIC RECORDS WAS MADE BY THE SURVEYOR, THEREFORE, THERE MAY BE RESTRICTIONS OTHER THAN THOSE SHOWN HEREON WHICH MAY BE FOUND IN THE PUBLIC RECORDS OF ALACHUA COUNTY.
- CONTRACTOR SHALL REMOVE BURIED OUT OF SERVICE UTILITY FACILITIES WITHIN THE LIMITS OF ALL EXCAVATION. THE COST OF THIS WORK SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE WORK BEING PERFORMED WHEN THE LINES ARE ENCOUNTERED.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS LISTED BELOW THROUGH SUNSHINE ONE CALL OF FLORIDA, INC (1-800-432-4770) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE:

COMPANY NAME:	TELEPHONE
CITY OF ALACHUA -- PUBLIC SERVICE DEPARTMENT	386-418-6100
GAINESVILLE REGIONAL UTILITIES (GRU GAS)	352-393-8078
AT & T FLORIDA	352-371-5278
COX COMMUNICATIONS	352-337-2052
LEVEL 3 COMMUNICATIONS	904-813-2063
- EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESS ENTRANCES DURING CONSTRUCTION OPERATIONS. REFER TO TRAFFIC CONTROL PLANS FOR ADDITIONAL INFORMATION.
- STATIONS, OFFSETS AND PROPOSED ELEVATIONS SHOWN IN THE PLANS REFER TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL VERIFY ALL EXISTING DRAINAGE STRUCTURES, PIPE SIZES/TYPES, AND INVERT ELEVATIONS PRIOR TO ORDERING PRECAST STRUCTURES.
- CONTRACTOR SHALL REMOVE ANY EXISTING IRRIGATION PIPES ENCOUNTERED DURING CONSTRUCTION WITHIN THE RIGHT OF WAY. THE PIPES SHALL BE CUT AT THE RIGHT OF WAY LINE AND CAPPED. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND COORDINATE PRIOR TO PERFORMING THIS WORK.
- CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE MINIMUM TECHNICAL STANDARDS PERFORMED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER PURSUANT TO CHAPTER 5-J17.052, FLORIDA ADMINISTRATIVE CODE, PROVIDED ON DISC (OR USB) PROVIDED TO THE CITY WHICH SHALL BE SAVED IN A AUTODESK TRUSTED DWG FORMAT COMPATIBLE WITH EITHER AUTODESK CIVIL 3D 2011 (INCLUDING PREVIOUS VERSIONS) OR AUTODESK LAND DESKTOP RELEASES AND INCLUDE SAVE PDF VERSION OF EACH DRAWING SUBMITTED. THE COORDINATED SYSTEM FOR ALL RECORD DRAWINGS SHALL BE FLORIDA STATE PLANE COORDINATES, NAD 83 ZONE NORTH US SURVEY FEET. VERTICAL COORDINATES SHALL BE REFERENCED TO THE NAVD 88 DATUM WITH ELEVATIONS GIVEN IN US SURVEY FEET. IF THE PROJECT WAS BEGUN USING NGVD29 IT SHALL BE CONVERTED USING NOAA, NATIONAL GEODETTIC SURVEY VERTCON DATA CONVERSION WEBSITE. THE COST FOR THE AS-BUILT SURVEY SHALL BE INCLUDED IN THE MOBILIZATION.
- THE CONTRACTOR SHALL FILE A AS-BUILT PLANS OF RECORD DRAWINGS WITH THE PUBLIC WORKS DEPARTMENT UPON COMPLETION OF ANY IMPROVEMENTS FOR WHICH CHANGES HAVE BEEN APPROVED DURING THE CONSTRUCTION PROCESS. THE REQUIREMENTS FOR AN AS-BUILT PLAN OR RECORD DRAWING WILL BE DETERMINED ON A CASE BY CASE BASIS, DEPENDING ON THE SCOPE OF THE CHANGES.
- RECORD DRAWINGS SHALL BE LEGIBLY MARKED TO DOCUMENT ACTUAL CONSTRUCTION. ALL CHANGES TO FINAL UTILITY LOCATIONS INCLUDING HORIZONTAL AND VERTICAL LOCATION SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS AND INCLUDE ALL MANHOLES, HYDRANTS, VALVES, VALVE BOXES AND STRUCTURES. RECORD DRAWINGS SHALL ALSO DOCUMENT ACTUAL INSTALLED PIPE MATERIALS. RECORD DRAWING SHALL CLEARLY SHOW AND DOCUMENT ALL FIELD CHANGES OF DIMENSION AND DETAIL. RECORD DRAWINGS SHALL INCLUDE ALL DETAILS NOT ON THE ORIGINAL DRAWING, BUT CONSTRUCTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GEOTECHNICAL CONSULTANT TO PROVIDE A FIELD INVESTIGATION REPORT DELINEATING RECOMMENDATIONS FOR UNDERCUTTING. A COPY OF THIS REPORT SHALL BE FORWARDED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO UNDERCUTTING. UNIT PRICES SHALL BE PROVIDED FOR UNDERCUTTING. THE CONTRACTOR SHALL NOT CONSTRUCT THE PROJECT UNTIL THE REPORT IS REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.
- SOIL TESTING RESULTS SHALL BE PROVIDED FOR THE PAVEMENT CONSTRUCTION. TESTING RESULTS SHALL BE SUBMITTED FOR THE SUBGRADE AND BASE COURSE, IN ACCORDANCE WITH THE DESIGN SECTION. A MINIMUM OF 5 TEST LOCATIONS SHALL BE PROVIDED ON-SITE. THE TESTING REPORT SHALL DENOTE THE TEST LOCATIONS. THE CONTRACTOR SHALL NOT PROCEED TO THE SUBSEQUENT PAVEMENT SECTION UNTIL TESTING-RESULTS ARE APPROVED FOR PREVIOUS SECTION. ALL TESTING REQUIRED WITHIN THE COUNTY R/W SHALL BE COORDINATED WITH THE COUNTY INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING COST.

EXISTING SYMBOLS & ABBREVIATIONS

- BFRR = WATERLINE BACKFLOW PREVENTER
- CHP = CORRUGATED METAL PIPE
- COL = COLUMN
- CONC = CONCRETE
- ELEV = ELEVATION
- F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTATION
- F.E.S. = FLARED END SECTION
- FOCJB = FIBER OPTIC CABLE JUNCTION BOX
- GSP = GALVANIZED STEEL PIPE
- ID = IDENTIFICATION
- INV = INVERT
- M.E.S. = MITERED END SECTION
- NO. = NUMBER
- PVC = POLY-VINYL CHLORIDE
- RCP = REINFORCED CONCRETE PIPE
- R/W = RIGHT OF WAY
- W/F = WITH
- ANCH = GUY ANCHOR
- BO = WATER BLOW OFF
- EM = ELECTRIC METER
- ELEPEDE = ELECTRIC PEDESTAL
- FLDGLT = FLOOD LIGHT
- FOCMRK = FIBER OPTIC CABLE MARKER
- FR = FIRE HYDRANT
- FCM = FOUND CONCRETE MONUMENT (size, ID)
- FRB = FOUND REBAR & CAP (size, ID)
- GCM = GAS LINE CONC MARKER
- GM = GAS METER
- LT PL = LIGHT POLE
- MBOX = MAIL BOX
- MP = ELECTRIC METER POLE
- MANHOLE = MANHOLE
- PIV = POST INDICATOR VALVE
- PP = POWER POLE
- REFL = REFLECTOR SIGN
- RWLMRK = RECLAIMED WATER LINE MARKER
- SV = SANITARY SEWER VALVE
- SIGN = SIGN
- SP = TELEPHONE POLE
- TELEPEDE = TELEPHONE PEDESTAL
- TELEMRK = TELEPHONE LINE MARKER
- CTVPEDE = CABLE TELEVISION PEDESTAL
- WM = WATER METER
- WV = WATER VALVE
- WLMRK = WATER LINE MARKER
- ECONTOUR = ELEVATION CONTOUR LINE
- FENCE = FENCE LINE
- OHPL = OVERHEAD POWER LINE
- OHTEL = OVERHEAD TELEPHONE LINE
- OHTELE = OVERHEAD TELEVISION LINE
- OHFOC = OVERHEAD FIBER OPTIC CABLE LINE
- FOC = UNDERGROUND FIBER OPTIC CABLE LINE
- FM = SANITARY SEWER FORCE MAIN
- UGEL = UNDERGROUND ELECTRIC LINE
- UGAS = UNDERGROUND GAS LINE
- UGTEL = UNDERGROUND TELEPHONE LINE
- UGCTV = UNDERGROUND CABLE TELEVISION LINE
- UGRW = UNDERGROUND RECLAIMED WATER LINE
- UGWL = UNDERGROUND WATER LINE
- WLC = (6" PVC)
- SPOT = SPOT ELEVATION



QUANTITIES

ITEM No.	ITEM DESCRIPTION	QTY	UNIT
EROSION CONTROL			
1	Silt Fence	1,241	LF
2	Tree Barricade	1,398	LF
DEMOLITION			
3	Culvert Demolition	337	LF
4	Mitered End Section Removal	6	EA
5	Flared End Section Removal	1	EA
6	Dirt Driveway Demolition	217	SY
CONSTRUCTION			
7	Sod (Common Bermuda)	9,250	SY
8	18" RCP Culvert Replacement	337	LF
9	18" Mitered End Section Replacement	6	EA
10	15" Flared End Section Replacement	1	EA
11	Dirt Driveway Repair	3	SY
WASTEWATER IMPROVEMENTS			
12	6" PVC Sewer Main (Open Cut)	45	LF
13	8" PVC Sewer Main (Open Cut)	4,580	LF
14	8" DIP Sewer Main (Jack and Bore)	364	LF
15	6" PVC Plug	3	EA
16	8" PVC Plug	13	EA
17	Sanitary Manhole	16	LS
MISCELLANEOUS			
18	4"x4"x6" Pressure Treated Post Marker	16	EA
19	Mailbox Replacement	1	EA
OTHER			
20	Mobilization	1	LS
21	Signing	1	LS
22	Testing	1	LS
23	Construction Surveying	1	LS
24	Maintenance of Traffic	1	LS

LEGEND

- TREE BARRICADE
- SILT FENCE
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER LINE BY JACK & BORE CONSTRUCTION METHOD
- PROPOSED WATERMAIN LINE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED

TREE LEGEND

- ONLY TREES WITH A DIAMETER 8" AND GREATER WERE LOCATED FOR THIS SURVEY. (DIAMETER MEASURED 4.5' ABOVE GRADE)
- | LOCATION | SIZE | COMMON NAME | Genus species |
|----------|------|-------------------|--------------------------------|
| ce18 | 18" | CAMPBOR | <i>Cinnamomum camphora</i> |
| ce13 | 13" | SOUTHERN REDCEDAR | <i>Juniperus silicicola</i> |
| ch11 | 11" | BLACK CHERRY | <i>Prunus serotina</i> |
| cm8 | 8" | GRAPE MYRTLE | <i>Lagerstroemia indica</i> |
| gt16 | 16" | GOLDENRAIN TREE | <i>Koeleruteria paniculata</i> |
| lo12 | 12" | LAUREL OAK | <i>Quercus hemisphaerica</i> |
| lo11 | 11" | LIVE OAK | <i>Quercus virginiana</i> |
| mg16 | 16" | MAGNOLIA | <i>Magnolia grandiflora</i> |
| mm09 | 9" | MIMOSA | <i>Albizia julibrissin</i> |
| po15 | 15" | PALM | <i>Sabal palmetto</i> |
| pc14 | 14" | PECAN | <i>Carya sp.</i> |
| pi21 | 21" | PINE | <i>Pinus sp.</i> |
| ab17 | 17" | SUGARBERRY | <i>Celtis laevigata</i> |
| eg17 | 17" | SWEETGUM | <i>Liquidambar styraciflua</i> |
| un15 | 15" | UNIDENTIFIED TREE | |
| wo10 | 10" | WATER OAK | <i>Quercus nigra</i> |

No.	Date	Comment

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Professional Engineer of Record:

Engineer Certificate No.

Project No: 18-008

Project phase: CONSTRUCTION PLANS

Project title: US 441 SANITARY SEWER EXTENSION - CITY OF ALACHUA FLORIDA

Sheet title: GENERAL NOTES

Designed: SJR	Sheet No.:
Drawn: LW	C005
Checked: MD	
Date: 11/13/18	

