

1. CITY OF OCALA - CONCEPTUAL PLAN - *APPROVED (DATE)/PENDING*
2. CITY OF OCALA - IMPROVEMENT PLAN - *APPROVED (DATE)/PENDING*
3. SJRWMD - ERP - *APPROVED (DATE)/ PENDING*
4. FDEP - POTABLE WATER - *APPROVED (DATE) / PENDING*
5. FDEP - SANITARY SEWER - *APPROVED (DATE) / PENDING*
6. FDEP - NPDES (BY OTHERS)

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1. ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIALS REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE CITY OF OCALA CODE OF ORDINANCE.
2. THIS PROJECT HAS NOT BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED AND/OR DEFERRED AND/OR PHASED FACILITIES, FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO DEVELOP THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO, BUILDING PERMIT REVIEW.
3. A COPY OF ALL PERMITS OBTAINED FROM REGULATORY AGENCIES AND WATER MANAGEMENT DISTRICTS WILL BE FORWARDED TO THE CITY PRIOR TO ISSUANCE OF BUILDING PERMITS.
4. FOR WATER UTILITY INFORMATION AND COMPLETION REPORT WILL BE SUBMITTED PRIOR TO FINAL INSPECTION.
5. A COPY OF THE NOISE NT TO FDEP FOR THE NPDES GENERAL CONSTRUCTION PERMIT REQUIREMENTS WILL BE SUBMITTED TO THE CITY (FOR CONSTRUCTION PROJECTS DISTURBING 1 OR MORE ACRES OF LAND).
6. NEIGHBORING CONSTRUCTION MAY COMMENCE ON ANY STRUCTURE UNTIL THERE IS EITHER AN EXISTING OR NEW DRAINAGE DRAINAGE IN OPERATION WITHIN 500 FEET OF THE STRUCTURE.
7. RESIDENTIAL SOLID WASTE IMPACT FEES ARE DUE AND PAYABLE AT THE TIME OF COUNCIL APPROVAL OF THE FINAL PLAT PER FEES RESOLUTION (CURRENTLY \$265.00 PER BUILDABLE LOT).
8. ALL STORM WATER MANAGEMENT SYSTEMS SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF IMPERVIOUS AREA.
9. AN APPROVED RIGHT-OF-WAY UTILIZATION PERMIT SHALL BE REQUIRED, FOR ANY WORK DONE WITHIN THE CITY'S RIGHT-OF-WAY, AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO SCHEDULED STARTING DATE.

BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLAN
COORDINATE SYSTEM, WEST
ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), WITH 2011 ADJUSTMENT AS DERIVED FROM THE
FLORIDA DEPARTMENT
OF TRANSPORTATION VIRTUAL REFERENCE STATION NETWORK.

TEMPORARY BENCHMARK (#16): SET 5/8" IRON ROD & CAP (LB 8071) ELEVATION = 74.89' N.1775865.32 E.623777.30 (NAVD 1988)

TEMPORARY BENCHMARK (#17): FOUND 4"x4" CONCRETE MONUMENT (NO I.D.) ELEVATION = 83.00
N.1775872.89 E.624139.95 (NAVD 1988)

(PER OFFICIAL RECORDS BOOK 8138, PAGE 1353)

PARCEL 4:

A PARCEL OF LAND LYING IN A PORTION OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 15 SOUTH, RANGE 22 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE NORTH RIGHT OF WAY LINE OF NE 28TH STREET (80 FEET WIDE) WITH THE EAST RIGHT OF WAY LINE OF NE 25TH AVENUE (80 FEET WIDE); THENCE NORTH 0° 58' EAST, ALONG SAID EAST RIGHT OF WAY LINE, 1280.54 FEET; THENCE DEPARTING SAID EAST RIGHT OF WAY LINE, NORTH 88° 52' 55" EAST A DISTANCE OF 432.59 FEET; THENCE SOUTH 00° 06' 34" WEST A DISTANCE OF 1280.53 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE OF SAID NE 28TH STREET; THENCE SOUTH 88° 52' 23" WEST, ALONG SAID NORTH RIGHT OF WAY LINE, 429.41 FEET TO THE POINT OF BEGINNING. SAID LANDS BEING SITUATE IN MARION COUNTY, FLORIDA.

GREEN FAMILY TRUST
FRANK GREEN
6811 NE 37TH LN
SILVER SPRINGS
FLORIDA 34488-2108

TILLMAN AND ASSOCIATES ENGINEERING, L.L.C.
TIMOTHY BROOKER JR., P.E.
1720 SE 16TH AVE. BLDG. 100
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JCH CONSULTING GROUP, INC.
CHRISTOPHER J. HOWSON, P.S.M., CFM
426 SW 15TH STREET
OCALA, FLORIDA 34471
PHONE (352) 405-1482

WATER/SEWER
ELECTRIC
GAS
CABLE/PHONE/INTERNET

THIS SITE CONTAINS:
RESIDENTIAL LOTS = 55
TOTAL MILES OF ROADWAY = 0.54 MILES
PROJECT AREA = 12.67 ± ACRES
PARCEL # 24274-000-00
AVERAGE DAILY TRIPS (55) = 600 TRIPS
PEAK HOUR TRIPS (55) = 58 TRIPS
E TRIP GENERATION MANUAL 10TH EDITION



I HEREBY CERTIFY THAT I, MY SUCCESSORS, AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN.

I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE (LDC), EXCEPT AS WAIVED.

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE LDC AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS.

GREEN FAMILY TRUST
FRANK GREEN

TIMOTHY BROOKER JR., P.E.
REGISTERED ENGINEER NO. 79259
STATE OF FLORIDA

CHRISTOPHER J. HOWSON
JCH CONSULTING GROUP, INC.
REGISTERED LAND SURVEYOR NO. 6553
STATE OF FLORIDA.

01.01	COVER SHEET
02.01	GENERAL NOTES
03.01	AERIAL PHOTOGRAPH
04.01	GEOMETRY PLAN

[illegible]

CONCEPTUAL PLAN
GREENWAY RESERVE
CITY OF OCALA, MARION COUNTY, FLORIDA

COVER SHEET

DATE 8/12/2025
DRAWN BY AS
CHKD. BY TB
JOB NO. 23-8340

SHT. 01.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

Tillman & Associates
—ENGINEERING, LLC.—
CIVIL ENGINEERING • PLANNING • LANDSCAPE ARCHITECTURE • ENVIRONMENTAL
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GENERAL NOTES

- ALL NOTES ON THIS SHEET ARE GENERAL IN NATURE. ALL NOTATION AND INFORMATION IN SUBSEQUENT SHEETS SHALL SUPERSEDE THESE NOTES IF CONTRADICTORY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF SIZE AND LOCATION OF ALL EXISTING UTILITIES AND RELATED CONSTRUCTION PRIOR TO COMMENCEMENT OF WORK.CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF OCALA AND FDOT.
- PAVEMENT STRIPING TO BE IN ACCORDANCE WITH CITY OF OCALA SPECIFICATIONS AND WITH THE FLORIDA D.O.T. ROADWAY & TRAFFIC STANDARDS, INDEX 17386.
- ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- WHERE MUCK OR OTHER ORGANIC MATERIAL IS FOUND, IT SHALL BE REMOVED AND REPLACED BY GOOD QUALITY BACKFILL MATERIAL OBTAINED FROM THE GRADING OPERATIONS OR OTHER SOURCE APPROVED BY THE ENGINEER. THE ORGANIC MATERIAL SHALL BE THEN USED AS TOP DRESSING WHEN MIXED WITH CLEAN SANDY SOIL.
- ALL FINISHED GRADES AND ELEVATIONS ARE AS DENOTED BY THE APPLICABLE LEGEND.
- AS PART OF THE CLEARING AND GRUBBING OPERATION, THE CONTRACTOR IS TO REMOVE EXISTING FACILITIES AND/ OR FENCING FROM THE SITE AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL NOTIFY CITY OF OCALA ENGINEERING DIVISION AND TILLMAN AND ASSOCIATES ENGINEERING, LLC AT LEAST ONE WEEK BEFORE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR SHALL OBTAIN A CITY OF OCALA R/W PERMIT PRIOR TO COMMENCING WORK WITHIN CITY OF OCALA R/W.
- A MINIMUM SEPARATION OF 1.5 FEET BETWEEN THE LIMBROCK BASE AND THE HIGHEST GROUNDWATER ELEVATION SHALL BE MAINTAINED WITHIN THE RIGHT-OF-WAY. CONTRACTOR TO NOTIFY ENGINEER IF 1.5 FEET OF SEPARATION IS NOT ACHIEVED.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- PER SECTION 62-371, CODE OF ORDINANCES: FOR ANY WORK WITHIN PUBLIC RIGHT OF WAY, A RIGHT OF WAY UTILIZATION PERMIT MUST BE OBTAINED FROM THE ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF STANDARD SHOP DRAWINGS AND MANUFACTURER'S CATALOGS WITH THE MODEL NUMBER OR TYPE OF THE ITEM ENCLOSED OR OTHERWISE DESIGNATED. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR. ALL UTILITY SHOP DRAWINGS AND MANUFACTURER'S CATALOGS SHALL BE APPROVED BY THE ENGINEER OR RECORD AND CITY OF OCALA PRIOR TO CONSTRUCTION.
- ALL AS-BUILTS SHALL COMPLY WITH THE CURRENT LDC, SECTION 6.2.4.8 AND RETURNED IN WADBS W- FORMAT WITH NORTHING AND EASTING COORDINATES FOR ALL ITEMS UNDER WATER AND WASTEWATER COMPONENTS.
- MCU PERSONNEL ARE TO INSPECT ANY WORK PERFORMED ON OR AROUND EXISTING MCU INFRASTRUCTURE. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. IF THE PRE-CONSTRUCTION MEETING IS NOT COMPLETED, ANY WORK MAY BE HALTED TO SCHEDULE. CONTACT MCU'S CONSTRUCTION OFFICER AT 352-307-6163.
- ALL UTILITIES UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE SLEEVED IN ACCORDANCE WITH SECTION 6.2.6A OF THE CITY OF OCALA LAND DEVELOPMENT CODE.

PAVING AND DRAINAGE NOTES

- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
- PAVEMENT RETURN RADII SHALL BE 28' AND MEASURED FROM THE INTERFACE OF THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
- DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.
- FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOMS, LINES, MANHOLES, HEADWALLS AND INTERED ENDS SECTIONS.
- TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE LOCATED AT FINISHED GRADE ELEVATION.
- AS AN ALTERNATIVE, CONTRACTOR MAY USE ALTERNATIVE PIPE MATERIALS IN LIEU OF RCP, HOWEVER CONTRACTOR MUST RECEIVE APPROVAL OF ALTERNATIVE PIPE MATERIALS IN WRITING BY CITY OF OCALA AND TILLMAN & ASSOCIATES PRIOR TO CONSTRUCTION, TO PURSUE USING AN ALTERNATIVE MATERIAL, THE CONTRACTOR SHALL SUBMIT A REQUEST IDENTIFYING THE ALTERNATIVE MATERIAL, THE DEVELOPMENT AND, AND CITY OF OCALA PRIOR TO CONSTRUCTION.
- MCU PERSONNEL ARE TO INSPECT ANY WORK PERFORMED ON OR AROUND EXISTING MCU INFRASTRUCTURE. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. IF THE PRE-CONSTRUCTION MEETING IS NOT COMPLETED, ANY WORK MAY BE HALTED TO SCHEDULE. CONTACT MCU'S CONSTRUCTION OFFICER AT 352-307-6163.
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- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OR BRANCHES AND MAINS.
- DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
- ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSION WHERE NEEDED.
- ALL PUBLIC WATER SYSTEMS COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT SHALL BE INSTALLED UNDER THIS PROJECT, AND THAT SHALL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND SHALL BE MARKED WITH NSF SEAL OF APPROVAL.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(2)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR IF PAINT IS USED INSTEAD OF TAPE. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE SOLID CORE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR.
- MARK DRINKING WATER SERVICES BY ETCHING A "W" INTO CURBING.
- PIPE MATERIALS: ALL PIPES, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
 - PVC WATER MAINS 4 INCHES TO 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC WATER MAINS LARGER THAN 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC PIPES LESS THAN 4 INCHES ARE NOT ALLOWED IN CITY OF OCALA. IN OTHER JURISDICTIONS, THEY SHALL BE IN ACCORDANCE WITH ASTM D3034 (SDR 26), 40, 1200 OR ASTM D2241 (SDR 21). MINIMUM WORKING PRESSURE FOR ALL PVC SHALL BE 150 PSI. ALL PVC PIPE SHALL HAVE THE SAME O.D. AS DUCTILE IRON PIPE. PVC PIPE JOINTS SHALL BE IN ACCORDANCE WITH ASTM D3139 AND AWWA STANDARDS.
 - DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE A MINIMUM OF CLASS 50. DUCTILE IRON JOINTS SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
 - ALL SERVICES SHALL BE POLYETHYLENE TUBING, CLASS 150 AND SHALL BE IN ACCORDANCE WITH AWWA C900.
- ALL VALVES SHALL BE LOCATED IN NON PAVED AREAS, UNLESS SPECIFIED ON PLANS.
- FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
- IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE "LEAD FREE" AS DEFINED IN THE LATEST VERSION OF THE SAFE WATER DRINKING ACT.
- WHERE NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT CANNOT BE AVOIDED, THEY SHALL BE PROVIDED WITH A FIRE FLUSHING HYDRANT OR BLOW OFF FOR FLUSHING PURPOSES.
- ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT SHALL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER, AT LEAST SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- PROPOSED FIRE HYDRANTS CONNECTED TO THE POTABLE WATER MAIN, FOR THIS PROJECT, SHALL BE PAINTED PER NFPA AND AWWA STANDARDS. FIRE HYDRANTS CONNECTED TO THE DESIGNATED FIRE LINE SHALL BE PAINTED PER JURISDICTION.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(2)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE. WILL HAVE A CO-EXTRUDED BLUE EXTENSION MARKER OR BLACK PIPE WITH BLUE STRIPE INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPE APPLIED TO THE PIPE WALL. PIPE STRIPE DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPS THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE. [FAC 62-555.320(2)(b)3]
- THE OPEN END OF THE AIR RELEASE PIPE FROM AN AUTOMATIC AIR RELEASE VALVE WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING FLOWCAP. [FAC 62-555.320(2)(b)3, AND RSWW 8.5.4]
- A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE, BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE TO PROVIDE ADEQUATE SUPPORT AND PROTECT THE PIPE, AND UNDESIRABLE SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE. [FAC 62-555.320(2)(b)3, AND RSWW 8.5.4]
- ALL WATER MAIN TENDS, BENDS, PLUGS, AND HYDRANTS WILL BE PROVIDED WITH THRUST BOLTS OR RESTRAINED JOINTS TO PREVENT MOVEMENT. [FAC 62-555.320(2)(b)3, AND RSWW 8.5.4]
- THE MINIMUM COVER TO BE PROVIDED OVER POTABLE WATER LINES SHALL BE 3'.
- WATER MAIN CONNECTIONS SHALL BE MADE UNDER THE SUPERVISION OF THE CITY OF OCALA. ALL VALVES SHALL BE OPERATED BY CITY OF OCALA PERSONNEL ONLY. WATER MAINS ARE TO BE DISCONNECTED PER AWWA C551 AND CITY OF OCALA LAND DEVELOPMENT CODE OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION SECTION 5.6 WHICH INCLUDES A FULL FLUSH, CONNECTING THE NEW MAINS, PRIOR TO DISCONNECTING TO THE EXISTING EXISTING SYSTEM FOR FILLING, FLUSHING, AND TESTING CONSTITUTES A PROHIBITED CROSS CONNECTION. PLEASE REFER TO CITY OF OCALA TEMPORARY JUMPER CONNECTION DETAIL U2030.
- SITE HAS **NO KNOWN** AGGRESSIVE SOILS OR CONTAMINATED BY LOW MOLECULAR-WEIGHT PETROLEUM PRODUCTS OR ORGANIC SOLVENTS WHERE WATER MAINS WILL BE INSTALLED. [32-555.520(4)(a) 10.6, F.A.C.]
- APPROXIMATE GROUND WATER ELEVATION DURING DIFFERENT SEASONS IS ESTIMATED TO BE BELOW ELEVATION **XXXX**, WHICH IS **XX'** OR GREATER BELOW THE BOTTOM OF ANY PROPOSED WATER MAINS. [62-555.520(4)(a) 10.6, F.A.C.]
- PVC WATER MAINS THAT HAVE AN INSIDE DIAMETER OF 18" OR GREATER, SHALL BE INSTALLED, PRESSURE, AND LEAK TESTED IN ACCORDANCE WITH AWWA STANDARD C605 AND DUCTILE IRON WATER MAINS IN ACCORDANCE WITH AWWA C600, 62-555.320(2)(b)1 AND 62-555.330F F.A.C. ALL INSTALLATION, TESTING, AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.

FIRE DEPARTMENT

- THE STRUCTURES BEING CONSTRUCTED ON THE PROPERTY WILL BE CONSTRUCTED UNDER THE 8TH EDITION OF FLORIDA FIRE PREVENTION CODE.
- PER CITY OF OCALA CRITERIA: FIRE-HYDRANTS MUST BE LOCATED SOD AS NOT TO REQUIRE THE LAYING OF MORE THAN FOUR-HUNDRED (400) FEET OF HOSE CONNECTED TO SUCH HYDRANT, ALONG THE NEAREST PUBLIC RIGHT-OF-WAY, TO THE CENTER OF ANY BUILDABLE LOT OR PARCEL IN THE DEVELOPMENT.
- ANY NEW HYDRANTS MUST BE ABLE TO SUPPLY 1000 G.P.M. OF WATER AT 20 P.S.I. AT ANY TIME OF THE DAY. ANY NEW HYDRANTS SHALL BE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE FIRE DEPARTMENT PRIOR TO APPROVAL OF THE FIRE HYDRANTS BY THE FIRE DEPARTMENT (8TH EDITION OF FLORIDA FIRE PREVENTION CODE)
- EACH NEW FIRE HYDRANT SHALL BE CLOW MEDALLION WITH TOPS AND BONNETS FORMER COATED FROM FACTORY, SAFETY BLUE.
- WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK. (8TH EDITION OF FLORIDA FIRE PREVENTION CODE)
- THE ACCESS ROADS SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED. (8TH EDITION OF FLORIDA FIRE PREVENTION CODE)
- IF LAND CLEARING OPERATIONS REQUIRE BURNING, A BURN PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF FORESTRY PRIOR TO BURNING ANY MATERIAL.
- ANY NEW FIRE HYDRANT INSTALLED MUST BE FLOWED A PANTED BY CONTRACTOR PER NFPA 291. ONCE ALL NEW HYDRANTS HAVE BEEN INSTALLED, TESTED, AND PAINTED PER NFPA 291 BY A THIRD PARTY CONTRACTOR, A THIRD PARTY CONTRACTOR WILL PROVIDE THE CITY OF OCALA FIRE PREVENTION OFFICE WITH A COPY OF THE HYDRANT FLOW DATA.

FORCE MAIN NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH THE CITY OF OCALA LDC FOR FORCE MAIN CONSTRUCTION.
- ALL FORCE MAIN CONSTRUCTION AND MATERIALS TO BE OWNED AND MAINTAINED BY CITY OF OCALA UTILITIES.
- PIPE LENGTHS SHOWN IN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
- DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
- VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSIONS WHERE NEEDED, UNLESS OTHERWISE NOTED.
- ALL PVC FORCE MAIN SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
- ALL NON-METALLIC FORCE MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE SOLID CORE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC FORCE MAINS SHALL BE EITHER A SOLID GREEN COLOR OR WHITE WITH GREEN LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL BE READ AS ACCEPTABLE FOR THE INTENDED USE.
- HYDROSTATIC & LEAKAGE TESTING OF THE FORCE MAIN SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C600.
- PIPE MATERIALS: PVC- SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 160 PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 26 UNLESS OTHERWISE NOTED. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE. PVC JOINT- SHALL BE IN ACCORDANCE WITH ASTM D3139. DUCTILE IRON JOINT- SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
- AIR RELEASE VALVES SHALL BE EQUIPPED AT ALL HIGH POINTS IN THE PROPOSED FORCE MAIN, AS SHOWN ON PLANS. HIGH POINTS IN THE FORCE MAIN ARE DEFINED AS A CHANGE IN ELEVATION TWICE THE DIAMETER OF THE PIPE.
- ALL FORCE MAINS TO BE CONSTRUCTED WITH A MINIMUM OF 4 FEET OF COVER.

REUSE NOTES

- ALL IRRIGATION, REUSE AND EFFLUENT REUSE PIPING TO BE OWNED AND MAINTAINED BY CITY OF OCALA SHALL BE A SOLID PURPLE COLOR.
- REUSE AND EFFLUENT REUSE MAINS SHALL BE PVC CONFORMING TO AWWA C900, DR 18 FOR PIPE SIZES 4"-12"; PIPES LARGER THAN 12" SHALL BE AWWA C900, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.
- DEPTH OF REUSE AND EFFLUENT REUSE LINES TO BE 36" BELOW FINISHED GRADE.
- REUSE AND EFFLUENT REUSE MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL REUSE AND EFFLUENT REUSE MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON PIPE AND SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.
- ALL IRRIGATION SLEEVEING UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.

WATER MAIN CONSTRUCTION NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AS WELL AS THE CITY OF OCALA LDC FOR WATER MAIN CONSTRUCTION.
- ALL WATER MAIN CONSTRUCTION AND MATERIALS WITHIN R/W OR EASEMENT TO BE OWNED AND MAINTAINED BY CITY OF OCALA UTILITIES.
- SEPARATION REQUIREMENTS (SEE TABLE 1.0-UTILITY SEPARATIONS)
- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS, SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PRELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:
 - NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 - NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' AND PREFERABLY 10' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3' WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6" ABOVE THE TOP OF THE SEWER.
- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS OR RECLAIMED WATER PRELINES:
 - NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY GRAVITY OR VACUUM-TYPE SANITARY SEWER PIPE SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6" AND PREFERABLY 12" ABOVE OR AT LEAST 12" BELOW THE OUTSIDE OF THE OTHER PIPE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12" ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- AT THE UTILITY CROSSINGS DESCRIBED IN THE ABOVE PARAGRAPHS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAINS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ABANDONED TO SUCH THAT ALL WATER MAIN JOINTS ARE AT LEAST 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS OR PRELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST 6' FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- NO WATER MAIN SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR A STORM SEWER MANHOLE.
- NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST 3' FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST 3' BUT PREFERABLY 10' FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST 10' FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- EXCEPTIONS / MITIGATION: ADHERENCE TO THE ABOVE CONSTRAINTS AND SEPARATIONS IN THE ABOVE ITEMS SHALL BE COMPLIED WITHOUT EXCEPTION, IF FOR SOME REASON WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE THAT THE ABOVE ITEMS CANNOT BE COMPLIED WITH, CONTRACTOR IS TO STOP WORK AND NOTIFY THE ENGINEER OF RECORD FOR THE APPROPRIATE SOLUTION. THE SOLUTION WILL BE SUBMITTED TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR APPROVAL PRIOR TO WORK COMMENCEMENT.

- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OR BRANCHES AND MAINS.
- DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
- ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSION WHERE NEEDED.
- ALL PUBLIC WATER SYSTEMS COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT SHALL BE INSTALLED UNDER THIS PROJECT, AND THAT SHALL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND SHALL BE MARKED WITH NSF SEAL OF APPROVAL.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(2)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR IF PAINT IS USED INSTEAD OF TAPE. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE SOLID CORE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR.
- MARK DRINKING WATER SERVICES BY ETCHING A "W" INTO CURBING.
- PIPE MATERIALS: ALL PIPES, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
 - PVC WATER MAINS 4 INCHES TO 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC WATER MAINS LARGER THAN 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC PIPES LESS THAN 4 INCHES ARE NOT ALLOWED IN CITY OF OCALA. IN OTHER JURISDICTIONS, THEY SHALL BE IN ACCORDANCE WITH ASTM D3034 (SDR 26), 40, 1200 OR ASTM D2241 (SDR 21). MINIMUM WORKING PRESSURE FOR ALL PVC SHALL BE 150 PSI. ALL PVC PIPE SHALL HAVE THE SAME O.D. AS DUCTILE IRON PIPE. PVC PIPE JOINTS SHALL BE IN ACCORDANCE WITH ASTM D3139 AND AWWA STANDARDS.
 - DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE A MINIMUM OF CLASS 50. DUCTILE IRON JOINTS SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
 - ALL SERVICES SHALL BE POLYETHYLENE TUBING, CLASS 150 AND SHALL BE IN ACCORDANCE WITH AWWA C900.
- ALL VALVES SHALL BE LOCATED IN NON PAVED AREAS, UNLESS SPECIFIED ON PLANS.
- FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
- IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE "LEAD FREE" AS DEFINED IN THE LATEST VERSION OF THE SAFE WATER DRINKING ACT.
- WHERE NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT CANNOT BE AVOIDED, THEY SHALL BE PROVIDED WITH A FIRE FLUSHING HYDRANT OR BLOW OFF FOR FLUSHING PURPOSES.
- ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT SHALL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER, AT LEAST SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- PROPOSED FIRE HYDRANTS CONNECTED TO THE POTABLE WATER MAIN, FOR THIS PROJECT, SHALL BE PAINTED PER NFPA AND AWWA STANDARDS. FIRE HYDRANTS CONNECTED TO THE DESIGNATED FIRE LINE SHALL BE PAINTED PER JURISDICTION.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(2)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE. WILL HAVE A CO-EXTRUDED BLUE EXTENSION MARKER OR BLACK PIPE WITH BLUE STRIPE INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPE APPLIED TO THE PIPE WALL. PIPE STRIPE DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPS THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE. [FAC 62-555.320(2)(b)3]
- THE OPEN END OF THE AIR RELEASE PIPE FROM AN AUTOMATIC AIR RELEASE VALVE WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING FLOWCAP. [FAC 62-555.320(2)(b)3, AND RSWW 8.5.4]
- A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE, BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE TO PROVIDE ADEQUATE SUPPORT AND PROTECT THE PIPE, AND UNDESIRABLE SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE. [FAC 62-555.320(2)(b)3, AND RSWW 8.5.4]
- ALL WATER MAIN TENDS, BENDS, PLUGS, AND HYDRANTS WILL BE PROVIDED WITH THRUST BOLTS OR RESTRAINED JOINTS TO PREVENT MOVEMENT. [FAC 62-555.320(2)(b)3, AND RSWW 8.5.4]
- THE MINIMUM COVER TO BE PROVIDED OVER POTABLE WATER LINES SHALL BE 3'.
- WATER MAIN CONNECTIONS SHALL BE MADE UNDER THE SUPERVISION OF THE CITY OF OCALA. ALL VALVES SHALL BE OPERATED BY CITY OF OCALA PERSONNEL ONLY. WATER MAINS ARE TO BE DISCONNECTED PER AWWA C551 AND CITY OF OCALA LAND DEVELOPMENT CODE OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION SECTION 5.6 WHICH INCLUDES A FULL FLUSH, CONNECTING THE NEW MAINS, PRIOR TO DISCONNECTING TO THE EXISTING EXISTING SYSTEM FOR FILLING, FLUSHING, AND TESTING CONSTITUTES A PROHIBITED CROSS CONNECTION. PLEASE REFER TO CITY OF OCALA TEMPORARY JUMPER CONNECTION DETAIL U2030.
- SITE HAS **NO KNOWN** AGGRESSIVE SOILS OR CONTAMINATED BY LOW MOLECULAR-WEIGHT PETROLEUM PRODUCTS OR ORGANIC SOLVENTS WHERE WATER MAINS WILL BE INSTALLED. [32-555.520(4)(a) 10.1, F.A.C.]
- APPROXIMATE GROUND WATER ELEVATION DURING DIFFERENT SEASONS IS ESTIMATED TO BE BELOW ELEVATION **XXXX**, WHICH IS **XX'** OR GREATER BELOW THE BOTTOM OF ANY PROPOSED WATER MAINS. [62-555.520(4)(a) 10.6, F.A.C.]
- PVC WATER MAINS THAT HAVE AN INSIDE DIAMETER OF 18" OR GREATER, SHALL BE INSTALLED, PRESSURE, AND LEAK TESTED IN ACCORDANCE WITH AWWA STANDARD C605 AND DUCTILE IRON WATER MAINS IN ACCORDANCE WITH AWWA C600, 62-555.320(2)(b)1 AND 62-555.330F F.A.C. ALL INSTALLATION, TESTING, AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.

SANITARY SEWER NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE CITY OF OCALA LDC FOR WASTEWATER CONSTRUCTION.
- ALL SANITARY SEWER CONSTRUCTION AND MATERIALS WITHIN R/W OR EASEMENT TO BE OWNED AND MAINTAINED BY CITY OF OCALA UTILITIES.
- ALL MANHOLES SHALL BE 4" FT. INSIDE DIAMETER.
- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
- ALL SANITARY SEWER LATERALS SHALL BE 8" INCH DIAMETER, UNLESS SPECIFIED OTHERWISE ON PLANS.
- INVERTS OF SANITARY SEWER LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.
- MINIMUM AS BUILT 8" PVC SEWER LINE SLOPE WILL BE 0.40% MINIMUM SLOPE OR WILL BE RE-LAID BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT 1% FOR ADDITIONAL COVER.
- MARK LATERALS BY ETCHING AN "S" INTO CURBING.
- PIPE MATERIAL IS ASTM D3034, SDR-26 UNLESS OTHERWISE NOTED.
- A MINIMUM 1.00% SLOPE SHALL BE MAINTAINED ON THE SANITARY SEWER SERVICE LATERALS. AT NO TIME SHALL A SANITARY SEWER LATERAL HAVE A SLOPE OF 1% OR GREATER.
- SANITARY SEWER GRAVITY MAINS ARE TO BE UPGRADED TO MATERIAL TO WATER MAIN STANDARDS AND HYDROSTATICALLY PRESSURE TESTED WITH WATER TO ENSURE JOINT TIGHTNESS IF EITHER OF THE HORIZONTAL MINIMUM REQUIRED CLEARANCE FROM A WATER MAIN CANNOT BE MAINTAINED OR IF THE SEWER MAIN IS ABOVE THE WATER MAIN, UPGRADE TO MATERIAL CANNOT BE MADE WITHOUT PRIOR APPROVAL FROM FDOT.
- LEAKAGE TEST ARE SPECIFIED REQUIRING THAT:
 - THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.
 - EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
 - AIR TESTS, AS MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM D-584 FOR CONCRETE PIPE, ASTM F-1447 FOR PLASTIC PIPE AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES, AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM C1244.
- DEFLECTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, CHAPTER 33.85, FOR ALL GRAVITY SANITARY SEWER LINES. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT INSTALLATION OF THE SOLID-PIPE SYSTEM TESTING REQUIREMENTS SPECIFY:
 - NO PIPE SHALL EXCEED A DEFLECTION OF 2%.
 - USING A RIGID BALL OR MANDREL FOR THE PIPE DEFLECTION TESTS WITH A DIAMETER NOT LESS THAN 95% OF THE INSIDE DIAMETER OF THE PIPE. THE DEFLECTION SHALL BE MEASURED ON THE PIPE DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED.
 - PERFORMING THE TEST WITHOUT MECHANICAL PULPING DEVICES.
- TESTING OF THE SEWAGE COLLECTION SYSTEM IS AS FOLLOWS:
 - ALL GRAVITY SANITARY SEWER MAINS SHALL BE TESTED WITH LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI BEL STANDARD FOR LOW PRESSURE AIR TESTS, AIR TEST, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
 - ALL SEWER MAINS SHALL BE LAMPED BY IN THE PRESENCE OF A CITY OF OCALA REPRESENTATIVE.
 - ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHAMBER CONSTRUCTION AND COAL TAR EXPOSIT PANT THROUGHOUT.
 - HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C900 OR M33 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.
 - DEFLECTION TEST ARE REQUIRED FOR ALL FLEXIBLE PIPE EXCLUDING FORCE MAINS. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULPING DEVICES & MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
- SANITARY SEWER SERVICES SHALL BE INSTALLED 10" FROM BACK OF CURB.
- THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF COMPLETE DETAILED SHOP DRAWINGS FOR ALL SANITARY MANHOLES, WET WELLS, OTHER CASTINGS, AND PUMPS. THE SUBMITTALS SHALL UNDER THE SUPERVISION OF THE UNDERGROUND UTILITY CONTRACTOR ON EACH SHEET. A COMPLETE SET OF THE LIFT STATION ELECTRICAL SHOP DRAWINGS IS ALSO REQUIRED IF APPLICABLE. ALL UTILITY SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF OCALA PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES

- DURING CONSTRUCTION, THE CONTRACTORS SHALL TAKE ALL EXISTING MEASURES TO INSURE AGAINST POLLUTING, SILTING OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING SURFACE WATERS, SUCH MEASURES SHALL BE APPROVED BY THE PROJECT ENGINEER AND MAY INCLUDE, BUT NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, OR Silt BARRIERS.
- CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.
- SODDING OF DETENTION POND SHALL BE COMPLETED WITHIN 14 DAYS OF POND GRADING TO MINIMIZE EROSION POTENTIAL.
- AT A MINIMUM, THE RETENTION/DETENTION STORAGE AREA MUST BE EXCAVATED WITHIN ONE FOOT PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA TO BE SERVED BY THOSE FACILITIES. TO PREVENT REDUCTION IN STORAGE VOLUME AND PERCOLATION RATES, ALL ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE STORAGE AREA PRIOR TO FINAL GRADING AND STABILIZATION.
- DURING CONSTRUCTION, THE PROPOSED EROSION SYSTEM DOES NOT PERFORM SATISFACTORILY, ALTERNATIVES AND ADDITIONAL METHODS OF PROTECTION SHALL BE IMPLEMENTED IN ORDER TO COMPLY WITH S.L.R.W.A.D. 316-10.4.1 AND CITY OF OCALA EROSION CONTROL CODES INCLUDING ANY COSTS ASSOCIATED WITH COMPLIANCE ISSUES AND ENFORCEMENT ACTIONS.
- A 2" STRIP OF SOD SHALL BE PLACED BEHIND BACK OF CURB.
- ALL SODDED AND/OR SEEDED AREAS MUST BE WATERED AS NECESSARY DURING CONSTRUCTION AND 2 MONTHS AFTER COMPLETION OF CONSTRUCTION IN ORDER TO ENSURE STABILIZATION AND SURVIVAL.

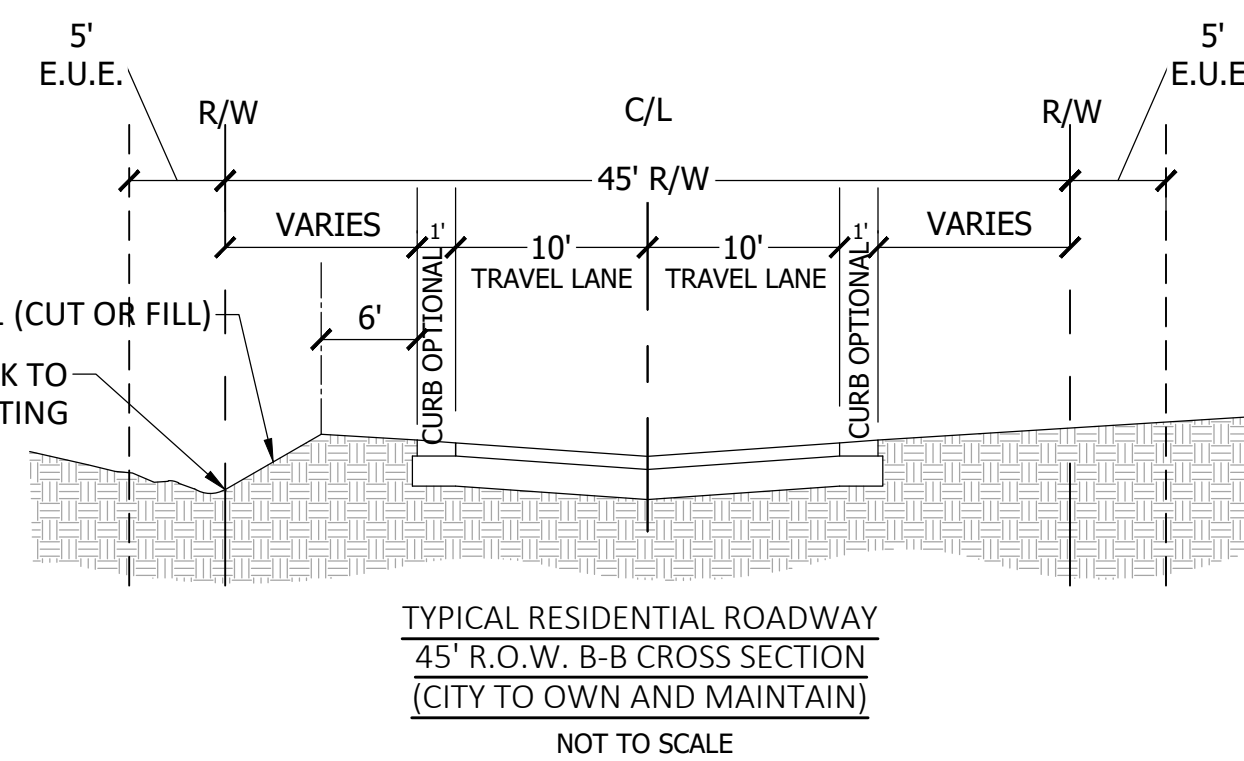
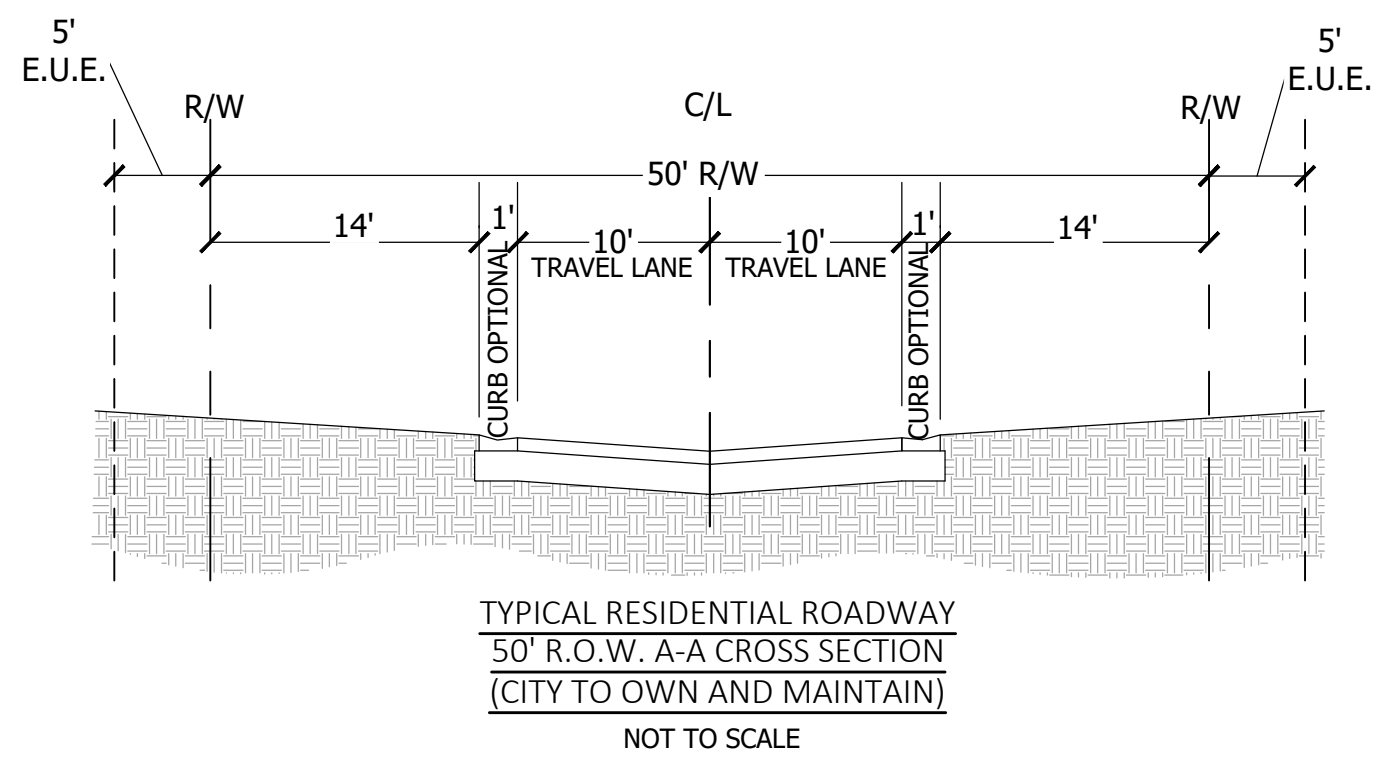
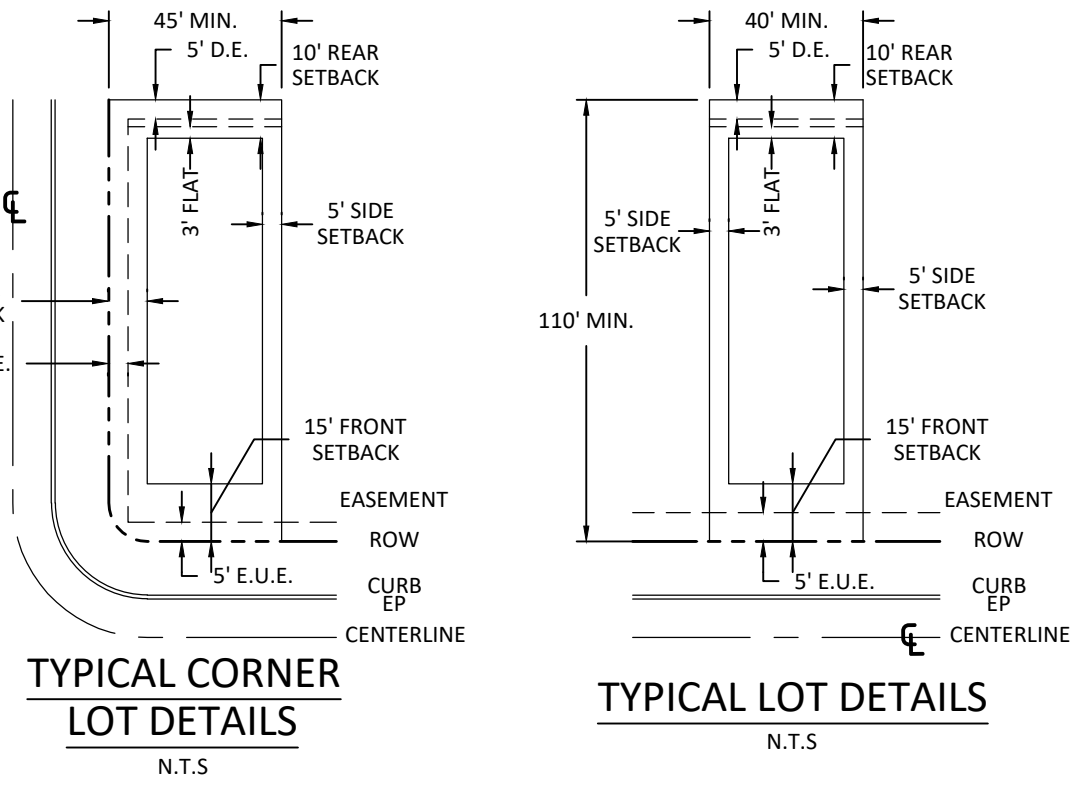
ELECTRIC NOTES

- THE FINAL APPROVED REVISED SITE PLAN IS TO BE EMAILED TO JKERR@OCALA.ORG USING THE BELOW MENTIONED OUS SITE PLAN REFERENCE NUMBER.
- ADDITIONAL REQUIREMENTS ARE CONTAINED IN CHAPTER 20, ARTICLE VI AND ARTICLE VII OF THE OCALA CODE OF ORDINANCES.
- CUSTOMER MUST SUBMIT THE OCALA UTILITY SERVICES (OUS) COMMERCIAL LAND DATA SHEET AND THE OUS GENERAL INFORMATION SHEET TO THE GROWTH MANAGEMENT DEPT. PRIOR TO ANY SITE PERMITS BEING ISSUED. DATA SHEETS MUST BE APPROVED BY OUS ENGINEERING PRIOR TO ANY SITE PERMITS BEING ISSUED. MATERIAL LEAD TIMES MAY CAUSE A DELAY IN THE PROJECT. IF LOAD DATA IS NOT SUBMITTED AS SOON AS POSSIBLE.
- CUSTOMER MUST CONTACT THE OCALA UTILITY SERVICES ENGINEERING DIVISION AT (352)353-6620 AT LEAST SIX (6) WEEKS PRIOR TO THE START OF CONSTRUCTION TO DISCUSS PERFORMANCE REQUIREMENTS, TEMPORARY CONSTRUCTION POWER, TRANSFORMER LOCATION, AND METER LOCATION. REFERENCE OUS ~~SP####~~
- CONSTRUCTION FOR TEMPORARY SERVICE TO BE DETERMINED BY OCALA UTILITY SERVICES.
- TREES CANNOT BE PLANTED AROUND, OVER, OR UNDER ANY EXISTING OR PROPOSED POWER LINES. THIS INCLUDES ANY LINES DESIGNATED AFTER FINAL SITE PLAN APPROVAL.
- UNDERGROUND ELECTRICAL SERVICE WILL BE AT CUSTOMER'S EXPENSE (SEC. 70-684 & SEC.

SEGMENT	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C8	2.22	1135.39	44.08	22.04	44.07	N0° 58' 56.62"W
C9	2.22	1135.39	44.08	22.04	44.07	N3° 12' 24.05"W
C9	2.22	1135.39	44.08	22.04	44.07	N5° 25' 51.47"W
C10	2.22	1135.39	44.08	22.04	44.07	N7° 38' 18.89"W
C11	0.28	1135.39	5.64	2.82	5.64	S8° 54' 35.29"E
C12	13.37	321.00	74.91	37.62	74.74	N2° 16' 55.77"W
C13	94.53	10.00	16.50	10.82	14.69	N42° 51' 39.04"W
C14	90.00	10.00	15.71	10.00	14.14	S44° 52' 31.33"E
C15	78.46	20.00	27.39	16.33	25.30	S39° 21' 22.14"E
C16	136.06	55.00	130.61	136.35	102.01	N10° 33' 21.44"W
C17	122.40	55.00	117.50	100.04	96.39	N61° 19' 77.97"W
C18	90.00	10.00	15.71	10.00	14.14	N45° 07' 28.67"W
C19	90.00	10.00	15.71	10.00	14.14	N44° 52' 31.33"E
C20	90.00	10.00	15.71	10.00	14.14	S45° 07' 28.67"E
C21	79.01	10.00	13.79	8.24	12.72	N50° 22' 17.75"E
C22	10.99	479.29	91.95	46.12	91.81	N5° 22' 05.63"E
C23	90.00	10.00	15.71	10.00	14.14	N45° 07' 28.67"W
C24	90.00	10.00	15.71	10.00	14.14	S44° 52' 31.33"W
C25	90.00	10.00	15.71	10.00	14.14	S45° 07' 28.67"E
C26	90.00	10.00	15.71	10.00	14.14	N44° 52' 31.33"E
C27	90.00	10.00	15.71	10.00	14.14	N45° 07' 28.67"W
C28	90.00	10.00	15.71	10.00	14.14	S44° 52' 31.33"W
C29	90.00	10.00	15.71	10.00	14.14	S45° 07' 28.67"E
C30	2.55	45.00	2.00	1.00	2.00	S88° 51' 03.49"E

PARCEL CURVE DATA						
SEGMENT	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C31	87.45	45.00	68.69	43.04	62.21	S43° 51' 03.45"E
C32	10.99	524.00	100.53	50.42	100.38	S5° 22' 17.75"W
C33	19.84	276.00	95.55	48.26	95.07	S5° 07' 01.02"W
C34	8.97	1180.39	184.72	92.55	184.53	S4° 34' 02.88"E
C35	0.21	1180.39	4.37	2.18	4.37	S0° 01' 17.96"W

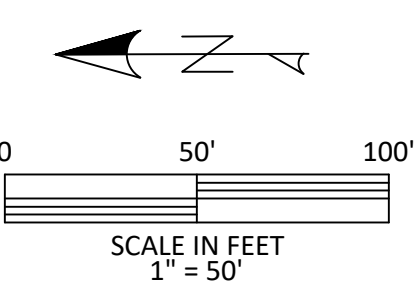
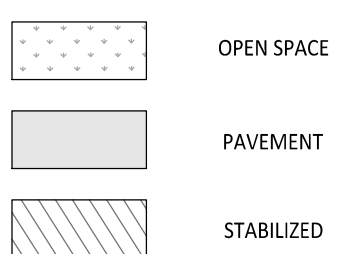
C/L CURVE DATA						
SEGMENT	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C1	39.23	100.00	68.47	35.64	67.14	S19° 44' 25.40"E
C2	90.00	35.00	54.98	35.00	49.50	S45° 07' 28.67"E
C3	10.99	500.00	95.93	48.11	95.78	S5° 22' 17.75"W
C4	10.99	170.00	32.62	16.36	32.57	N84° 37' 42.25"W
C5	19.84	300.00	103.86	52.45	103.34	S5° 07' 01.02"W
C6	8.84	1200.00	185.20	92.78	185.02	S4° 32' 45.40"E



NOTES:

1. ALL RIGHT-OF-WAY RADII AT INTERSECTIONS TO BE 10'.
2. PUBLIC ROAD STATUS WITH 50' RIGHT-OF-WAY WIDTH TOGETHER WITH 5' UTILITY EASEMENT, AS WELL AS 45' RIGHT-OF-WAY WITH 5' UTILITY EASEMENT, TRACTS A,B,C,D AND E ARE RESERVED FOR LANDSCAPING, RECREATION, DRAINAGE & UTILITIES. MAINTENANCE, INGRESS, EGRESS, SIGNAGE AND SUCH OTHER PURPOSES THAT ARE LEGALLY PERMITTED.
3. STREET RIGHT-OF-WAY, DELINEATED AS TRACT (A), IS PUBLICLY DEDICATED RIGHT-OF-WAY.
4. ALL LOTS IN THE SUBDIVISION WILL BE SERVED BY CENTRAL WATER AND SEWER.
5. ALL LOTS/TRACTS IN THIS SUBDIVISION SHALL USE THE INTERNAL SUBDIVISION ROADWAY FOR DRIVEWAY/VEHICLE ACCESS.
6. ALL UTILITIES, AS SHOWN ON THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE **CITY OF OCALA LAND DEVELOPMENT CODE**.
7. ANY OF Ocala RESPONSIBLE FOR THE MAINTENANCE OF BOTH NEW AND REPLACEMENT QUANTITY STREET SIGNS.
8. WATER/SEWER UTILITIES PROVIDED BY **CITY OF OCALA UTILITIES DEPARTMENT**.
9. H.O.A.P.D. IS RESPONSIBLE FOR THE STORM WATER MAINTENANCE.
10. ALL STRUCTURE CONSTRUCTION (SCREENED ENCLOSURES) SHALL CONFORM TO THE DESIGN SETBACKS AS DETAILED.
11. ADDITIONAL PERMITS WILL BE REQUIRED FOR MONUMENT SIGNAGE.
12. ALL PERMITS TO BE OBTAINED BY H.O.A.P.D.
13. SIDEWALKS- NO INTERNAL SIDEWALK BEING PROPOSED. SIDEWALK OR PAY FEE IN LIEU OF TO BE ESTABLISHED ALONG NE 28TH STREET AND NE 25TH AVENUE.
14. THERE A FOOT OF ELECTRIC UTILITY EASEMENT, SECTION 70-62(b)(3) WILL BE MET AS REQUIRED

LEGEND:



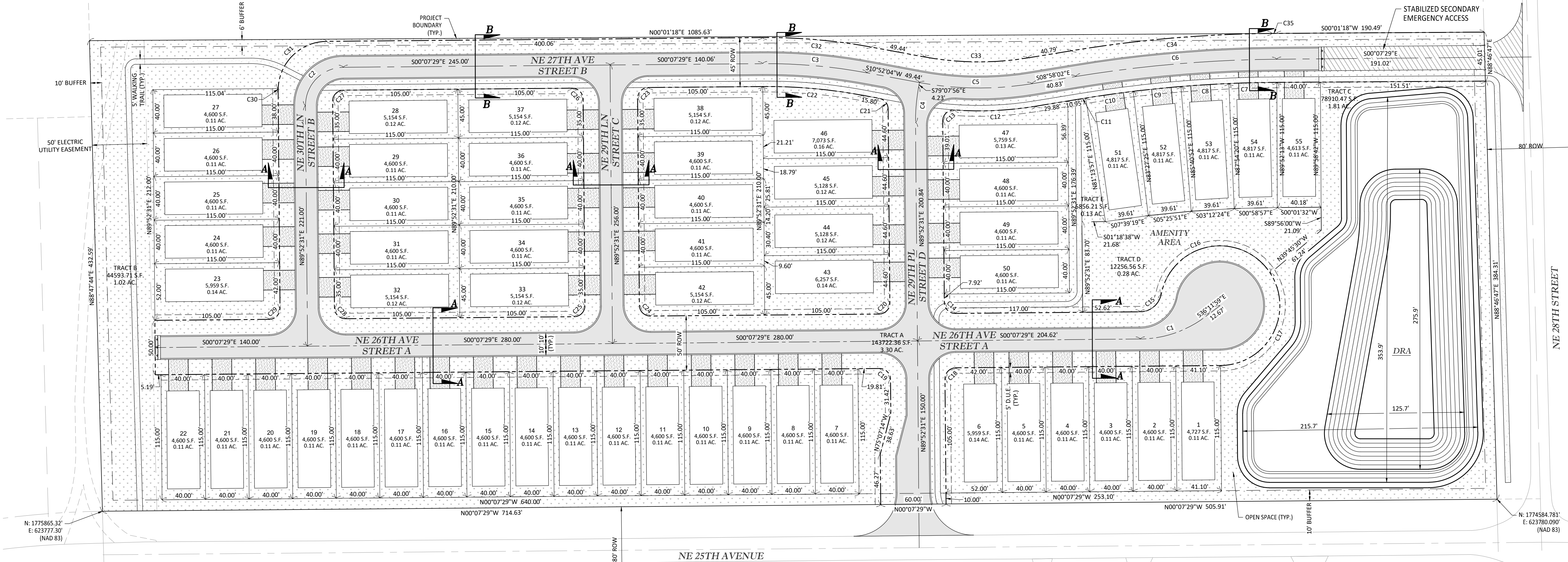
REQUIRED OPEN SPACE CALCULATIONS:
 -(40% OF PROJECT AREA AS MINIMUM OPEN SPACE)
 -PROJECT AREA = 12.67 AC.
 -MINIMUM REQUIRED OPEN SPACE = $0.4 \times 12.67 = 5.07$ AC.

OPEN SPACE CALCULATIONS:
 -TOTAL OPEN SPACE PROVIDED = 5.72 AC. (45%)

AGGREGATE OPEN SPACE:
 -AGGREGATE OPEN SPACE REQUIRED = $0.1 \times 5.07 = 0.51$ AC
 -AGGREGATE OPEN SPACE PROVIDED = 0.51 AC (4% OF OVERALL ACREAGE, 10% OF TOTAL OPEN SPACE)

PROVIDED OPEN SPACE CALCULATIONS PER TRACT					
TRACT	TOTAL TRACT AREA (ACRES)	USE	TOP OF BANK (ACRES)	OPEN SPACE PER TRACT (ACRES)	IMPROVED OPEN SPACE (ACRES)
A	3.30	R/W	N/A	1.38	0.13
B	1.02	OPEN SPACE	N/A	1.02	0.06
C	1.81	DRA/OPEN SPACE	1.27	0.54	N/A
D	0.28	AMENITY	N/A	0.28	0.28
E	0.13	OPEN SPACE	N/A	0.13	0.04
				3.35	0.51

* REMAINING 2.37 ACRES OF OPEN SPACE PROVIDED INSIDE OF LOTS



Tillman & Associates
— **ENGINEERING, LLC.** —
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

[illegible]

CONCEPTUAL PLAN
GREENWAY RESERVE
CITY OF OCALA, MARION COUNTY, FLORIDA

DATE 8/19/2025
DRAWN BY AS
CHKD. BY TB
JOB NO. 23-8340

SHT. 04.01