SECTION 26, TOWNSHIP 15 SOUTH, RANGE 21 EAST, MARION COUNTY, FLORIDA
COLLEGE PARK SECOND ADDITION

VICINITY MAP:

NOT TO SCALE



SHEET 1 OF 2
ONE IS NOT COMPLETE WITHOUT THE OTHERS

SEE SHEET 2 OF 2 FOR SURVEY DRAWING

LEGEND AND ABBREVIATIONS:

±	MORE OR LESS
EL.	ELEVATION
LB	LICENSED BUSINESS
NO.	NUMBER
LS	LAND SURVEYOR
I.D.	IDENTIFICATION
ORB	OFFICIAL RECORDS BOOK
℄	CENTERLINE
R	RADIUS
L	ARC LENGTH
Δ	DELTA (CENTRAL ANGLE)
(P)	PLAT MEASURE
(D)	DEED MEASURE
(C)	CALCULATED MEASURE
(F)	FIELD MEASURE
(S)	SIGN
C.D.	CHORD LENGTH
C.B.	CHORD BEARING
POC	POINT ON CURVE
POL	POINT ON LINE
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PI	POINT OF INTERSECTION
P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
ORB	OFFICIAL RECORDS BOOK
PG(S)	PAGE(S)
R/W	RIGHT OF WAY
ESMT	EASEMENT
SEC	SECTION
FND	FOUND
REC	RECOVERED
CCR	CERTIFIED CORNER RECORD
RLS	REGISTERED LAND SURVEYOR
CM	CONCRETE MONUMENT
IRC	IRON ROD AND CAP
IR	IRON ROD
IP	IRON PIPE
CLF	CHAIN LINK FENCE
⊗	FOUND 5/8" IRON ROD & CAP (AS NOTED)
●	FOUND 5/8" IRON ROD & CAP (AS NOTED)
⊛	FOUND NAIL & DISC (AS NOTED)
□	FOUND 4"x4" CONCRETE MONUMENT (AS NOTED)
	CONTROL/BENCHMARK AS DESCRIBED
	CURB INLET GRATE
	CATCH BASIN
	STORM MANHOLE
	MITERED END SECTION
	SANITARY MANHOLE
	SANITARY CLEANOUT
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC RISER BOX
	CABLE TELEVISION RISER BOX
	TELEPHONE RISER BOX
	UTILITY RISER
	WELL
	WATER SPIGOT
	IRRIGATION CONTROL VALVE
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	BACK FLOW PREVENTER
	AIR CONDITIONER PAD
	GAS VALVE
	GAS METER
	GAS LINE MARKER
	CONCRETE UTILITY POLE
	METAL UTILITY POLE
	WOOD UTILITY POLE
	UTILITY POLE GUY ANCHOR
	LIGHT POLE
	SPOT/GROUND LIGHT
	ELECTRIC TRANSFORMER
	WETLAND FLAG
	SIGN
	BOLLARD
	FLAG POLE
	MAILBOX
	YARD DRAIN
	LINE BREAK
x—x	FENCE LINE AS NOTED
o/e	OVERHEAD UTILITY LINE
t/b	APPROXIMATE TOP OF BANK
t/s	APPROXIMATE TOE OF SLOPE
100	EXISTING CONTOUR
	STORM DRAINAGE LINE
	SANITARY SEWER LINE

TREE LEGEND
(SIZE DENOTED INSIDE SYMBOL)

	CAMPHOR
	CEDAR
	CHERRY
	CHINABERRY
	CYPRESS
	DOGWOOD
	ELM
	GUM
	HICKORY
	HOLLY
	LAUREL OAK
	LIVE OAK
	MAGNOLIA
	MAPLE
	MIMOSA
	MISC
	OAK
	PALM
	PECAN
	PINE TREE
	SUGAR HACKBERRY
	SYCAMORE

SURVEY NOTES:

1. DATE OF FIELD SURVEY: APRIL 19, 2018.
2. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE 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.
3. BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY PANEL NO. 12083C0516E, EFFECTIVE DATE OF APRIL 19, 2017. THE PROPERTY DESCRIBED HEREON LIES WITHIN FLOOD ZONES "X" AN AREA OF MINIMAL FLOOD HAZARD.
4. NORTH-SOUTH AND EAST-WEST TIES TO FOUND MONUMENTATION AND IMPROVEMENTS ARE BASED ON CARDINAL DIRECTION.
5. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
6. THIS SURVEY DEPICTS THE PROPERTY AS IT EXISTED ON THE SURVEY DATE, NOT NECESSARILY THE SIGNATURE DATE.
7. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT OF THE PARTY(IES) NAMED HEREON, AND SHALL NOT BE DUPLICATED OR RELIED UPON BY ANY OTHER INDIVIDUAL OR ENTITY WITHOUT AUTHORIZATION FROM JCH CONSULTING GROUP, INC.
8. UNDERGROUND FOUNDATIONS AND UTILITIES WERE NOT LOCATED. SITE IS VACANT OF BUILDINGS OR OTHER FIXED IMPROVEMENTS.
9. WETLAND AREAS WERE NOT ADDRESSED AS PART OF THIS SURVEY
10. SUBJECT TO RIGHTS OF WAY, RESTRICTIONS, EASEMENTS AND RESERVATIONS OF RECORD. PUBLIC RECORDS NOT SEARCHED BY JCH CONSULTING GROUP, INC.
11. ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.
12. TOPOGRAPHIC DATA AND TREE LOCATIONS ARE BASED ON AREA AS SPECIFIED BY CLIENT.
13. VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT K 427, ELEVATION 81.81' (NAVD 1988).
14. THIS SURVEY IS BASED ON BOUNDARY SURVEY COMPLETED BY BOWYER-SINGLETON & ASSOCIATES, INC, JOB#355V-J2, DATED 07/24/2007.
15. TREE HEALTH AS DEPICTED IN TREE TABLE WAS BASED ON PHYSICAL OBSERVATION AND SHOULD BE VERIFIED BY A ARBORIST.

LEGAL DESCRIPTION:

LOTS 14, 15, AND 16, BLOCK "M", COLLEGE PARK SECOND ADDITION , AS RECORDED IN PLAT BOOK H, PAGES 36 & 36A, OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA.

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THIS SURVEY MEETS THE APPLICABLE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J17.050-.052, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

CHRISTOPHER J. HOWSON — DATE
FLORIDA LICENSED SURVEYOR & MAPPER NO. 6553

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

(CERTIFICATE OF AUTHORIZATION NO. LB 8071)

REVISIONS				
FB/PG	DATE	DRAWN	REVISION	CKD
---	06/22/21	M.A.	UPDATE TREE INFORMATION	CJH

JCH
CONSULTING GROUP, INC.
LAND DEVELOPMENT · SURVEYING & MAPPING
PLANNING · ENVIRONMENTAL · G.I.S.
2474 NW 43rd STREET, SUITE 170, GAINESVILLE, FLORIDA 32606
PHONE (352) 331-1976 FAX (866) 777-8226 www.JCHcg.com
CERTIFICATE OF AUTHORIZATION LB 8071

LOCATED IN SECTION 26, TOWNSHIP 15 SOUTH, RANGE 21 EAST

MARION COUNTY, FLORIDA

PLAT OF BOUNDARY & TOPOGRAPHIC SURVEY
-FOR-
ARMSTRONG HOMES

FB/PG	FIELD DATE
17-2/54-57	04/19/18

DRAWING DATE	BY	APPROVED
04/26/18	M.A.	C.J.H.

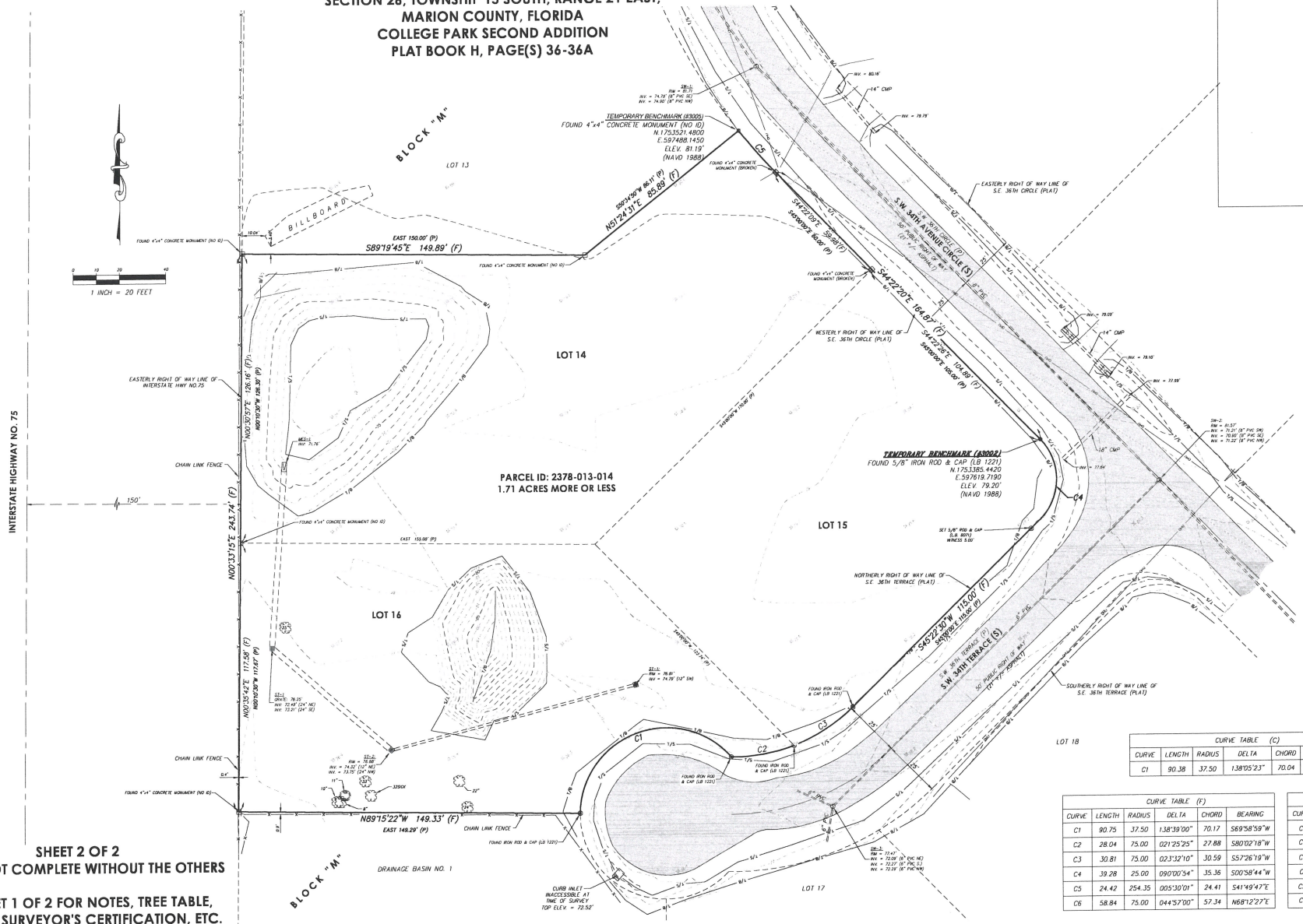
JOB NO. 18301R1

SCALE 1" = 20'

1 OF 2

Drawing name: Z:\Projects\18301 College Park 2nd Add\ Lots 14-16, Block M, College Park Apts\DWG\18301R1.dwg SHEET: 1 JUL 06, 2021 8:55am by manic

SECTION 26, TOWNSHIP 15 SOUTH, RANGE 21 EAST, MARION COUNTY, FLORIDA
COLLEGE PARK SECOND ADDITION
PLAT BOOK H, PAGE(S) 36-36A



SHEET 2 OF 2
ONE IS NOT COMPLETE WITHOUT THE OTHERS

SEE SHEET 1 OF 2 FOR NOTES, TREE TABLE, LEGENDS, SURVEYOR'S CERTIFICATION, ETC.

CURVE TABLE (C)					
CURVE	LENGTH	RADIUS	DELTA	CHORD	BEARING
C1	90.38	37.50	138°05'23"	70.04	S69°08'23"W

CURVE TABLE (F)					
CURVE	LENGTH	RADIUS	DELTA	CHORD	BEARING
C1	90.75	37.50	138°39'00"	70.17	S69°58'59"W
C2	28.04	75.00	021°25'25"	27.88	S80°02'18"W
C3	30.81	75.00	023°32'10"	30.59	S57°26'19"W
C4	39.28	25.00	090°00'54"	35.36	S00°58'44"W
C5	24.42	254.35	005°30'01"	24.41	S41°49'47"E
C6	58.84	75.00	044°57'00"	57.34	N68°12'27"E

CURVE TABLE (P)			
CURVE	RADIUS	CHORD	BEARING
C1	37.50	69.59	S68°05'42"W
C2	75.00	27.88	S79°11'21"W
C3	75.00	30.65	S56°47'21"W
C4	25.00	35.36	S00°00'00"E
C5	254.35	24.76	S42°12'35"E
C6	75.00	57.42	S67°27'03"W

REVISIONS				
FB/PG	DATE	DRAWN	REVISION	CKD
---	06/22/21	M.A.	UPDATE TREE INFORMATION	CJH

JCH
CONSULTING GROUP, INC.
LAND DEVELOPMENT · SURVEYING & MAPPING
PLANNING · ENVIRONMENTAL · G.I.S.
307 NW 8TH AVENUE OCALA, FLORIDA 34475
PHONE (352) 405-1187 FAX (888) 277-8335 www.JCHfg.com
CERTIFICATE OF AUTHORIZATION L.B. #671

LOCATED IN SECTION 26, TOWNSHIP 15 SOUTH, RANGE 21 EAST

MARION COUNTY, FLORIDA

PLAT OF BOUNDARY & TOPOGRAPHIC SURVEY
—FOR—
ARMSTRONG HOMES

FB/PG	FIELD DATE
17-2/54-57	04/19/18
DRAWING DATE	BY / APPROVED
04/26/18	M.A. / C.J.H.

JOB NO. 18301R1

SCALE 1" = 20'

2 OF 2

Drawing name: Z:\Projects\18301 College Park 2nd Add. Lots 14-16, Block M, College Park Apts\DWG\18301R1.dwg SHEET 2 Jul 21, 2021 3:28pm by JCH

MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES

PARCEL ID #: 2378-013-014 (PRIME KEY 594148)
PARCEL ADDRESS: T.B.D.
SECTION 26, TOWNSHIP 15 SOUTH, RANGE 21 EAST
CITY OF OCALA, MARION COUNTY, FLORIDA

OWNER/DEVELOPER: ARMSTRONG LAND, LLC
PROJECT AREA: 1.71± ACRES
ADDITIONAL IMPERVIOUS AREA: 0.88 ACRES
FLU - NEIGHBORHOOD
ZONING: R-3

TOTAL TRIP GENERATION
P.M. PEAK HOUR TRIPS = 15

Know what's below. Call before you dig.

Call 48 Hours before you dig. It's the Law: 1-800-432-4770 Sunshine State One Call of Florida, Inc.

PERMITS:

1.	CITY OF OCALA MAJOR SITE PLAN	PENDING
2.	SWFWMD E.R.P.	PENDING
3.	FDEP - POTABLE WATER	PENDING
4.	FDEP - SANITARY SEWER	PENDING
5.	NPDES (BY OTHERS)	PENDING

REQUESTED WAIVERS:

1. ---

NOTES
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 ORDINANCES
2. THIS PROJECT HAS NOT BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED AND/OR RESERVED ANY PUBLIC FACILITIES. FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A 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. STORMWATER INFORMATION AND COMPLETION REPORT WILL BE SUBMITTED PRIOR TO SITE PLAN CONSTRUCTION.
5. A COPY OF THE NOI SENT 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. NO VERTICAL CONSTRUCTION MAY COMMENCE ON ANY STRUCTURE UNTIL THERE IS EITHER AN EXISTING OR NEW FIRE HYDRANT IN OPERATION WITHIN 500 FEET OF THE STRUCTURE
7. ALL STORM WATER MANAGEMENT SYSTEMS SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF IMPERVIOUS AREA
8. ALL AGREEMENTS, RESTRICTIONS, AND IMPROVEMENTS RELATED TO THE DEVELOPMENT SHALL RUN WITH THE LAND AND BE BINDING UPON THE DEVELOPER AND ALL SUCCESSORS
9. THE CONTRACTOR SHALL APPLY FOR AN APPROVED RIGHT OF WAY UTILIZATION PERMIT FOR ALL WORK TO BE DONE WITHIN THE CITY'S RIGHT OF WAY, 5 BUSINESS DAYS PRIOR TO SCHEDULED STARTING DATE
10. NO SITE WORK SHALL BE CONDUCTED PRIOR TO OBTAINING A SITE PERMIT FROM THE CITY. CALL THE CITY GROWTH MANAGEMENT DEPARTMENT @ 352.629.8421 TO SCHEDULE THE PRE-CONSTRUCTION MEETING WHICH MUST BE HELD BEFORE INSTALLING ANY REQUIRED EROSION CONTROLS OR OBTAINING ANY SITE PERMITS
11. ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT WHICH ARE NOT OTHERWISE PAVED SHALL BE IMMEDIATELY SODDED FOLLOWING FINAL GRADING. ALLOW FOR THICKNESS OF SOD WITH A 2-INCH UNDERCUT. SOD SHALL BE ARGENTINE BAHIA, AND SHALL BE REGULARLY WATERED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION DURATION.
12. OWNER WILL MAINTAIN STORM SYSTEM

LEGAL DESCRIPTION

LOTS 14, 15, AND 16, BLOCK "M", COLLEGE PARK SECOND ADDITION, AS RECORDED IN PLAT BOOK H, PAGES 36 & 36A, OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA

BASIS OF BEARINGS

BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE 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

BENCHMARK

VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT K 427, ELEVATION=81.81' (NAVD 1988)

FLOOD CERTIFICATE

THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" - AN AREA OF MINIMAL FLOODING, PER THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 12083C0356E, EFFECTIVE APRIL 19, 2017

OWNER/DEVELOPER:
ARMSTRONG LAND, LLC
PARKER HIRONS
4600 W. CYPRESS ST. SUITE 200
TAMPA, FL. 33607
PHONE: (813) 574-5720

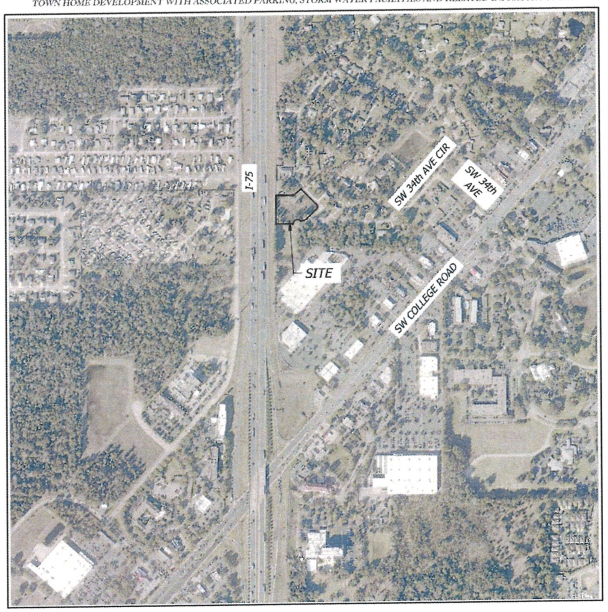
GEOTECH:
GEO-TECH, INC.
CONTACT: MATTHEW W. HOLLAND
1016 SE 3rd AVENUE
OCALA, FLORIDA 34471
PHONE: (352) 694-7711
FAX: (352) 694-7733

PREPARED BY:
TILLMAN & ASSOCIATES ENGINEERING, LLC
CONTACT: TIM BROOKER, JR., PE
1720 SE 16th AVENUE, BLDG. 100
OCALA, FLORIDA 34471
PHONE: (352) 387-4540
FAX: (352) 387-4545

ARCHITECT:
DESIGN STYLES ARCHITECTURE
2907 STATE ROAD 590 SUITE 7
CLEARWATER, FLORIDA 33759
PHONE: (727) 797-4420

SURVEYOR:
JCH CONSULTING GROUP, INC
CONTACT: CHRISTOPHER J HOWSON
3128 NW BLITCHTON ROAD
OCALA, FL 34475
PHONE: (352) 405-1482

PURPOSE STATEMENT
THE PURPOSE AND INTENT OF THE PROPOSED DEVELOPMENT IS TO CONSTRUCT A 21 UNIT 2 STORY MULTI-FAMILY TOWN HOME DEVELOPMENT WITH ASSOCIATED PARKING, STORM WATER FACILITIES AND RELATED INFRASTRUCTURE



VICINITY MAP
SCALE: 1" = 500'

Utility Companies

Water	CITY OF OCALA
Sewer	CITY OF OCALA
Electric	OCALA ELECTRIC UTILITIES
Cable/Phone/Internet	COX

INDEX OF SHEETS

01.01	COVER SHEET
02.01	GENERAL NOTES
03.01	AERIAL PHOTOGRAPH
04.01	DEMOLITION PLAN
05.01	MASTER DRAINAGE PLAN
06.01	GEOMETRY & STRIPING PLAN
07.01	GRADING & DRAINAGE PLAN
08.01	UTILITY PLAN
09.01	TYPICAL ROADWAY DETAILS
10.01	DRAINAGE DETAILS
11.01	UTILITY DETAILS
12.01	EROSION CONTROL PLAN & DETAILS
SL.01	SLEEVING PLAN
BL.01	BORING LOGS
L1.01	TREE PRESERVATION & LANDSCAPE AREA PLAN
L2.01	TREE PRESERVATION NOTES & DETAILS
L6.01	PLANTING SPECIFICATIONS
L7.01	PLANT SCHEDULE & NOTES
L8.01	PLANTING PLAN
L9.01	PLANTING DETAILS
1 - 2	BOUNDARY, TOPO & TREE SURVEY (BY JCH CONSULTING GROUP, INC.)

OWNER'S SIGNATURE

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

PARKER HIRONS
AUTHORIZED AGENT

ENGINEER CERTIFICATION

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.

TIMOTHY BROOKER Jr. P.E
Registered Engineer No. 79289
STATE OF FLORIDA

SURVEYOR'S CERTIFICATE

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

JCH CONSULTING GROUP, INC
CHRISTOPHER J. HOWSON
FLORIDA LICENSED SURVEYOR & MAPPING # 6853

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

REVISIONS | DATE

MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES
CITY OF OCALA, MARION COUNTY, FLORIDA

COVER SHEET

DATE: 2/3/22
DRAWN BY: MR
CHKD. BY: TB
JOB NO. 18-4039

SHT. 01.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

on County\Armstrong College Park Apts\CIVIL\CONSTRUCTION\01_COVER.dwg, 2/3/2022 2:22:28 PM, _AutoCAD PDF (General Documentation).pc3, 1:1

GENERAL NOTES

1. 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.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF OCALA AND FDOT.
3. PAVEMENT STRIPING TO BE IN ACCORDANCE WITH CITY OF OCALA SPECIFICATIONS AND WITH THE FLORIDA D.O.T. DESIGN STANDARDS (LATEST REVISION).
4. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
5. 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.
6. ALL FINISHED GRADES AND ELEVATIONS ARE AS DENOTED BY THE APPLICABLE LEGEND.
7. 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.
8. 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'S.
9. A MINIMUM SEPARATION OF 1.5 FEET BETWEEN THE LIMEROCK 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.
10. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. PER SECTION 82-371, CITY OF OCALA CODE OF ORDINANCES: FOR ANY WORK WITHIN PUBLIC RIGHT OF WAYS, A RIGHT OF WAY UTILIZATION PERMIT MUST BE OBTAINED FROM THE ENGINEERING DEPARTMENT A MINIMUM OF 5 BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION.
12. DUE TO THE CONCERN OF HUMAN BEAR CONFLICT, THE CONSTRUCTION SITE SHALL BE KEPT CLEAN WITH WILDLIFE RESISTANT CONTAINERS FOR WORKERS TO USE FOR FOOD-RELATED AND OTHER WILDLIFE-ATTRACTANT REFUSE. ADDITIONALLY, FREQUENT TRASH REMOVAL IS REQUIRED WITH THE USE OF PROPER FOOD STORAGE AND REMOVAL ON WORK SITES.

PAVING AND DRAINAGE NOTES

1. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
2. ALL PAVEMENT RETURN RADII SHALL BE 25' AND MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
3. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.
4. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
5. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE LOCATED AT FINISHED GRADE ELEVATION.
6. 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 ENGINEERING LLC PRIOR TO CONSTRUCTION.
7. TOP SOIL WHICH HAS BEEN STRIPPED AND STOCK PILED DURING THE COURSE OF CONSTRUCTION SHALL BE REDISTRIBUTED ON ALL REGRADED SURFACES SO AS TO PROVIDE AT LEAST FOUR INCHES OF EVEN COVER TO ALL DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING OR PLANTING.
8. ALL DISTURBED AREAS WITH SLOPES UP TO 6:1 SHALL BE SEEDED AND MULCHED. SLOPES STEEPER THAN 6:1 SHALL BE SODDED AND SLOPES 3:1 OR STEEPER SHALL HAVE THE SOD PEGGED.
9. SEE TABLE 2.0 FOR REQUIRED STORM PIPE COVER BENEATH AN UNPAVED SECTION.
10. SEE TABLE 3.0 FOR REQUIRED STORM PIPE COVER BENEATH RIGID PAVEMENT.
11. SEE TABLE 4.0 FOR REQUIRED STORM PIPE COVER BENEATH FLEXIBLE PAVEMENT.
12. THE TABULATED VALUES ARE RECOMMENDED MINIMUM DIMENSIONS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT LOADS OR HIGHWAY TRAFFIC LOADS BEFORE PAVEMENT IS COMPLETED. SOME SIZE THICKNESS COMBINATIONS MAY REQUIRE MINIMUM COVER GREATER THAN THOSE LISTED ABOVE. SEE FDOT INDEX 205, SHEETS 1-6.
13. ALL RCP STORM WATER PIPE SHALL MEET THE COVER & CLASS CRITERIA AS OUTLINED IN FDOT INDEX 205.
14. ALL STORM PIPE JOINTS SHALL BE WRAPPED AS SPECIFIED IN FDOT INDEX 280.
15. THE LAST FOOT OF STORM WATER POND SHALL NOT BE EXCAVATED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
16. ANY FILL MATERIAL MUST BE APPROVED BY ENGINEER IN WRITING PRIOR TO PLACEMENT.
17. SIGNIFICANT CARE MUST BE TAKEN WHEN GRADING RETENTION PONDS TO ENSURE THAT POND BOTTOMS DO NOT BECOME COMPACTED DURING CONSTRUCTION OR SEALED BY CONSTRUCTION SEDIMENT. IF SEDIMENTATION OR COMPACTION OF A POND BOTTOM OCCURS, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE DESIGN HYDRAULIC CONDUCTIVITY.
18. THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) REQUIRES ALL PROPERTY OWNERS TO PERFORM A STORMWATER SYSTEM INSPECTION TO ASSURE THE PONDS, INLETS, AND PIPES ON SITE ARE BEING WELL MAINTAINED (E.G., PROPERLY MOWED AND CLEAR OF DEBRIS). THE INTENT IS TO GUARANTEE THAT CONTAMINATED RAIN RUN-OFF FROM THE PROPERTY WILL NOT ADVERSELY AFFECT THE SURROUNDING AREA.

SANITARY SEWER NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE ***CITY OF OCALA*** MANUAL OF STANDARD SPECIFICATIONS FOR WASTEWATER CONSTRUCTION.
2. ALL MANHOLES SHALL BE 4 FT. INSIDE DIAMETER.
3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
4. ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER, UNLESS SPECIFIED OTHERWISE ON PLANS.
5. INVERTS OF SANITARY SERVICE LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.
6. MINIMUM AS BUILT 8" PVC SEWER LINE SLOPE WILL BE 0.40% MINIMUM SLOPE OR WILL BE RELAID BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
7. SEWER SERVICES ARE TO BE NOTED WITH AN "X" CUT INTO THE CURBING.
8. PIPE MATERIAL IS ASTM D3034 SDR-26 UNLESS OTHERWISE NOTED.
9. A MINIMUM 1.04% SLOPE SHALL BE MAINTAINED ON THE SANITARY SEWER SERVICE LATERALS. AT NO TIME SHALL A SANITARY SEWER LATERAL HAVE A SLOPE OF 15% OR GREATER.
10. SANITARY SEWER GRAVITY MAINS ARE TO BE UPGRADED IN MATERIAL TO WATER MAIN STANDARDS AND HYDROSTATICALLY PRESSURE TESTED WITH WATER TO ENSURE JOINT TIGHTNESS IF EITHER OF THE HORIZONTAL OR VERTICAL MINIMUM REQUIRED CLEARANCE FROM A WATER MAIN CANNOT BE MAINTAINED OR IF THE SEWER MAIN IS ABOVE THE WATER MAIN.
11. LEAKAGE TEST ARE SPECIFIED REQUIRING THAT:
    - A) 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.
    - B) EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
    - C) AIR TESTS, AS MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
12. 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 STABILIZATION OF THE SOIL PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
    1) NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
    2) USING A RIGID BALL OR MANDREL FOR THE PIPE DEFLECTION TESTS WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED.
    3) PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

FIRE DEPARTMENT

1. THE STRUCTURES BEING CONSTRUCTED ON THE PROPERTY WILL BE CONSTRUCTED UNDER THE NFPA 1 2015 EDITION OF FLORIDA FIRE PREVENTION CODE.
2. PER ***CITY OF OCALA*** CRITERIA:
   FIRE HYDRANTS MUST BE LOCATED SO AS NOT TO REQUIRE THE LAYING OF MORE THAN FIVE-HUNDRED (500) 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.
3. 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. (NFPA 1 2015 EDITION OF FLORIDA FIRE PREVENTION CODE)
4. EACH NEW FIRE HYDRANT SHALL BE CLOW MEDALLION WITH TOPS AND BONNETS POWDER COATED FROM FACTORY, SAFETY BLUE.
5. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK. (NFPA 1 2015 EDITION OF FLORIDA FIRE PREVENTION CODE)
6. THE ACCESS ROADS SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED. (NFPA 1 2015 EDITION OF FLORIDA FIRE PREVENTION CODE)
7. IF LAND CLEARING OPERATIONS REQUIRE BURNING, A BURN PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF FORESTRY PRIOR TO BURNING ANY MATERIAL.
8. ANY NEW FIRE HYDRANT INSTALLED MUST BE FLOWED & PAINTED BY CONTRACTOR PER NFPA 291.

WATER MAIN CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AS WELL AS THE CITY OF OCALA MANUAL OF STANDARDS AND SPECIFICATIONS FOR WATER MAIN CONSTRUCTION.
2. SEPARATION REQUIREMENTS (SEE TABLE 1.0-UTILITY SEPARATIONS)
   - 2.1 HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS, SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
   - 2.1.1. 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.
   - 2.1.2. 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 VACUUM-TYPE SANITARY SEWER.
   - 2.1.3. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 6' 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 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.
   - 2.2. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS OR RECLAIMED WATER PIPELINES
   - 2.2.1. 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.
   - 2.2.2. 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.
   - 2.2.3. 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 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 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS OR PIPELINES 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..
   - 2.3. NO WATER MAIN SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR A STORM SEWER MANHOLE.
   - 2.4. 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 ON-SITE SEWAGE TREATMENT OR DISPOSAL SYSTEM AS DEFINED IN SECTION 381.0065(2), F.S. AND RULE 64E-6.002, F.A.C.
   - 2.5. 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.
3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
4. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
5. ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSION WHERE NEEDED.
6. 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.
7. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(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.
8. ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE 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.
9. MARK DRINKING WATER SERVICES WITH 4" x 4" x 8' PT POST PAINTED BLUE ON END.
10. 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.
    - A. PVC WATER MAINS 4 INCHES TO 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC WATER MAINS 14 INCHES TO 36 INCHES SHALL BE IN ACCORDANCE WITH AWWA C905, 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 D1785 (SCHEDULE 40, 80, 120) 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.
    - B. DUCTILE IRON PIPE SHALL CONFORM TO ANSI A21.51/AWWA C151 AND SHALL BE A MINIMUM OF CLASS 50. DUCTILE IRON JOINTS SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
    - C. ALL SERVICES SHALL BE POLYETHYLENE TUBING, CLASS 160 AND SHALL BE IN ACCORDANCE WITH AWWA C901.
11. WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE CITY OF OCALA UTILITIES DIVISION. ALL VALVES SHALL BE OPERATED BY CITY OF OCALA PERSONNEL ONLY. WATER MAINS ARE TO BE DISINFECTED PER ANSI/AWWA C651-92 AND CITY OF OCALA UTILITIES DIVISION MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION SECTION 51.6 WHICH INCLUDES A FULL FLUSH.
12. ALL VALVES SHALL BE LOCATED IN NON PAVED AREAS, UNLESS SPECIFIED ON PLANS.
13. FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
14. 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.
15. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT SHALL CONTAIN NO MORE THAN 0.2% LEAD.
16. 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.
17. 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 FORCE 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.
18. WATER SERVICES ARE TO TERMINATE 1' OUTSIDE ROW ALONG THE PROPERTY LINE.
20. 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.
21. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(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 EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPED APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES 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 INCHES OR GREATER, TAPE OR PAINT WILL 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(21)(b)3]
22. THE OPEN END OF THE AIR RELIEF PIPE FROM ALL AUTOMATIC AIR RELIEF VALVES WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING ELBOW. [FAC 62-555.320(21)(b)3, AND RSWW 8.4.2]
23. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE, AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' 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(21)(b)3, AND RSWW 8.5.2]
24. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT. [FAC 62-555.320(21)(b)3, AND RSWW 8.5.4]
25. NEW OR ALTERED WATER MAIN INSTALLATION AND PRESSURE AND LEAKAGE TESTING, SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS. PVC WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C605. DUCTILE IRON WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C600.
26. NEW OR ALTERED WATERMAINS, INCLUDING FIRE HYDRANT LEADS AND SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER, SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA C651.

FORCE MAIN NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH THE ***CITY OF OCALA*** MANUAL OF STANDARDS AND SPECIFICATIONS FOR FORCE MAIN CONSTRUCTION.
2. PIPE LENGTHS SHOWN IN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
3. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
4. VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSIONS WHERE NEEDED, UNLESS OTHERWISE NOTED.
5. ALL PVC FORCE MAIN SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
6. ALL NON-METALLIC FORCE MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE 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 READ AS IS ACCEPTABLE FOR THE INTENDED USE.
7. 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 C-600.
8. PIPE MATERIALS:
   PVC - SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 100 PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 25 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.
9. AIR RELEASE VALVES SHALL BE REQUIRED 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.
10. ALL FORCE MAINS TO BE CONSTRUCTED WITH A MINIMUM OF 3' FEET OF COVER.
11. TESTING OF THE SEWAGE COLLECTION SYSTEM IS AS FOLLOWS:
    - A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL 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.
    - B. ALL SEWER MAINS SHALL BE LAMPED BY A ***CITY OF OCALA*** REPRESENTATIVE.
    - C. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT.
    - D. 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 C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.
    - E. DEFLECTION TEST ARE REQUIRED FOR ALL FLEXIBLE PIPE EXCLUDING FORCE MAINS. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES D MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

REUSE NOTES

1. ALL REUSE AND EFFLUENT REUSE PIPING TO BE OWNED AND MAINTAINED BY ***CITY OF OCALA*** SHALL BE A SOLID PURPLE COLOR.
2. REUSE AND EFFLUENT REUSE MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12" pipes 14" & LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
3. DEPTH OF REUSE AND EFFLUENT REUSE LINES TO BE 30" BELOW FINISHED GRADE.
4. REUSE AND EFFLUENT REUSE MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. 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.
6. ALL IRRIGATION SLEEVING UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.

EROSION CONTROL NOTES

1. DURING CONSTRUCTION, THE CONTRACTORS SHALL TAKE ALL REASONABLE 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.
2. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.
3. SODDING OF DETENTION PONDS SHOULD BE ACCOMPLISHED WITHIN 14 DAYS OF POND GRADING TO MINIMIZE EROSION POTENTIAL.
4. 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.
5. IF DURING CONSTRUCTION, THE PROPOSED EROSION SYSTEM DOES NOT PERFORM SATISFACTORILY, ALTERNATIVES AND ADDITIONAL METHODS OF PROTECTION SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO COMPLY WITH ***S.J.R.W.M.D.*** AND ***FDEP*** EROSION CONTROL COSTS INCLUDING ANY COSTS ASSOCIATED WITH COMPLIANCE ISSUES AND ENFORCEMENT ACTIONS.
6. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING NPDES IF REQUIRED.
7. A 2' STRIP OF SOD SHALL BE PLACED BEHIND BACK OF CURB.
8. 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.

CLEARANCES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 30 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL UTILITY IMPROVEMENTS, PRESSURE TESTS, BACTERIOLOGICAL TESTS, AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS WITH ***F.D.E.P.*** AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL STORM WATER SYSTEM IMPROVEMENTS AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS WITH ***S.J.R.W.M.D.*** AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER (2)	Water Main — 3 ft. minimum	Water Main — 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	ALTERNATE 3 FT. MINIMUM — Water Main
VACUUM SANITARY SEWER	Water Main — 10 ft. preferred, 3 ft. minimum	Water Main — 12 inches is preferred, 6 inches minimum	ALTERNATE 3 FT. MINIMUM — Water Main
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2)	Water Main — 10 ft. preferred, 6 ft. minimum (3)	Water Main — 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	ALTERNATE 6 FT. MINIMUM — Water Main
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft. minimum		

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

AS-BUILT NOTES

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   - A. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
   - B. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, WATER, REUSE AND WASTEWATER PIPING AND RELATED APPURTENANCES. ALL PIPING LOCATIONS INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.
   - C. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
   - D. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.
   - E. LOCATION OF ALL INLETS AND MANHOLES, HYDRANTS, VALVES AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO PREFERABLY THREE PERMANENT POINTS.
   - F. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE VERIFIED AND SHOWN. THE INVERTS AND GRADE ELEVATIONS OF ALL INLETS, CONTROL STRUCTURES AND MANHOLES SHALL BE SHOWN.
   - G. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. SPOT ELEVATIONS SHALL BE TAKEN AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AT 50' INTERVALS.
   - H. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIM WATER MAINS AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA.
   - I. WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
   - J. WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATED THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSING. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
2. EACH SHEET OF THE PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

TABLE 3.0 - STORM PIPE COVER (RIGID PAVEMENT)

RIGID PAVEMENT (DOWELED JOINTS AND GOOD CONDITION) — MINIMUM COVER

PIPE TYPE/SIZE & SHAPE	MINIMUM COVER
CONCRETE *	
ROUND & ELLIPTICAL	9"
CORRUGATED STEEL *	
15"-72" ROUND & ARCH EQUIVALENT	9"
78" & LARGER ROUND AND ARCH EQUIVALENT	15"
CORRUGATED ALUMINUM	
15" - 72" ROUND AND ARCH EQUIVALENT	9"
78" - 102" ROUND AND ARCH EQUIVALENT	15"
108" & LARGER ROUND	18"
CORRUGATED POLYETHYLENE	
15" - 48" ROUND	9"
POLYVINYL CHLORIDE	
15" - 48" ROUND	9"

*FOR PIPE CLASS "5" WITH DIAMETERS OF 12" TO 30" THE MINIMUM HEIGHT OF FILL IS 2'.

TABLE 2.0 - STORM PIPE COVER (UNPAVED)

UNPAVED — MINIMUM COVER

PIPE TYPE/SIZE & SHAPE	COMMERCIAL	NON-COMMERCIAL
CONCRETE *		
ROUND & ELLIPTICAL	12"	3"
CORRUGATED STEEL		
12" - 30" ROUND	18" [15"]	12" [12"]
36" - 48" ROUND	18" (12") [15"]	12" (12") [12"]
54" - 72" ROUND	18" (12") [15"]	15" (12") [12"]
78" - 96" ROUND	(16") [27"]	(12") [12"]
102" & LARGER ROUND	24" [33"]	18" [21"]
15" - 30" ARCH EQUIVALENT	18" [18"]	12" [12"]
36" - 48" ARCH EQUIVALENT	24" (12") [21"]	18" (12") [15"]
54" - 72" ARCH EQUIVALENT	30" (18") [24"]	24" (12") [18"]
78" - 96" ARCH EQUIVALENT	(24") [27"]	(18") [21"]
102" & LARGER ARCH EQUIVALENT	(30")	(24")
CORRUGATED ALUMINUM		
12" - 24" ROUND	21" [21"]	15" [15"]
30" - 48" ROUND	24" (18") [21"]	18" (12") [15"]
54" - 72" ROUND	30" (24") [27"]	24" (18") [21"]
78" - 102" ROUND	(30") [33"]	(24") [27"]
108" & LARGER ROUND	36"	30"
15" - 24" ARCH EQUIVALENT	27" [24"]	24" [21"]
30" - 48" ARCH EQUIVALENT	33" (21") [27"]	27" (15") [21"]
54" - 72" ARCH EQUIVALENT	36" (24") [30"]	30" (18") [24"]
78" - 90" ARCH EQUIVALENT	(30") [36"]	(24") [30"]
96" - 102" ARCH EQUIVALENT	(36")	(30")
CORRUGATED POLYETHYLENE		
15" - 48" ROUND	21"	15"
POLYVINYL CHLORIDE		
15" - 48" ROUND	21"	15"

VALUES SHOWN IN PARENTHESIS ( ) ARE FOR 3" X 1" CORRUGATIONS WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER. VALUES SHOWN IN BRACKETS [ ] APPLY TO TYPE 1-R (SPIRAL RIB) PIPE WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER.
*FOR PIPE CLASS "5" WITH DIAMETERS OF 12" TO 30" THE MINIMUM HEIGHT OF FILL IS 3'.

TABLE 4.0 - STORM PIPE COVER (FLEXIBLE PAVEMENT)

FLEXIBLE PAVEMENT OR RIGID PAVEMENT [JOINTS NOT DOWELED OR POOR CONDITION (FRACTURED)] — MINIMUM COVER

PIPE TYPE/SIZE & SHAPE	MINIMUM COVER
CONCRETE *	
ROUND & ELLIPTICAL	7"
CORRUGATED STEEL *	
12"-30" ROUND	12" [12"]
36"-48" ROUND	18" (12") [15"]
54"-72" ROUND	21" (15") [18"]
78"-96" ROUND	(18") [27"]
102 & LARGER ROUND	(24") [33"]
15"-30" ARCH EQUIVALENT	18" [18"]
36"-48" ARCH EQUIVALENT	24" (12") [18"]
54"-72" ARCH EQUIVALENT	27" (15") [24"]
78"-96" ARCH EQUIVALENT	(18") [30"]
102" & LARGER ARCH EQUIVALENT	(24")
CORRUGATED ALUMINUM	
12"-24" ROUND	15" [12"]
30"-48" ROUND	18" (12") [18"]
54"-72" ROUND	24" (18") [24"]
78"-102" ROUND	(24") [30"]
108" & LARGER	(30")
15"-24" ARCH EQUIVALENT	24" [21"]
30"-48" ARCH EQUIVALENT	27" (15") [24"]
54"-72" ARCH EQUIVALENT	30" (18") [27"]
78"-90" ARCH EQUIVALENT	(24") [30"]
96"-102" ARCH EQUIVALENT	(30")
CORRUGATED POLYETHYLENE	
15" - 30" ROUND	15"
POLYVINYL CHLORIDE	
15" - 30" ROUND	15"

VALUES SHOWN IN PARENTHESIS ( ) ARE FOR 3" X 1" CORRUGATIONS WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER. VALUES SHOWN IN BRACKETS [ ] APPLY TO TYPE 1-R (SPIRAL RIB) PIPE WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER.
*FOR PIPE CLASS "5" WITH DIAMETERS OF 12" TO 30", THE MINIMUM HEIGHT OF FILL IS 3'.

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

DATE	REVISIONS

MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES
CITY OF OCALA, MARION COUNTY, FLORIDA

GENERAL NOTES

DATE 10/27/21
DRAWN BY MR
CHKD. BY TB
JOB NO. 18-4039

SHT. 02.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



100' 50' 0 100' 200'
SCALE IN FEET
1" = 100'

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 #26796

REVISIONS

DATE

MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES
CITY OF OCALA, MARION COUNTY, FLORIDA

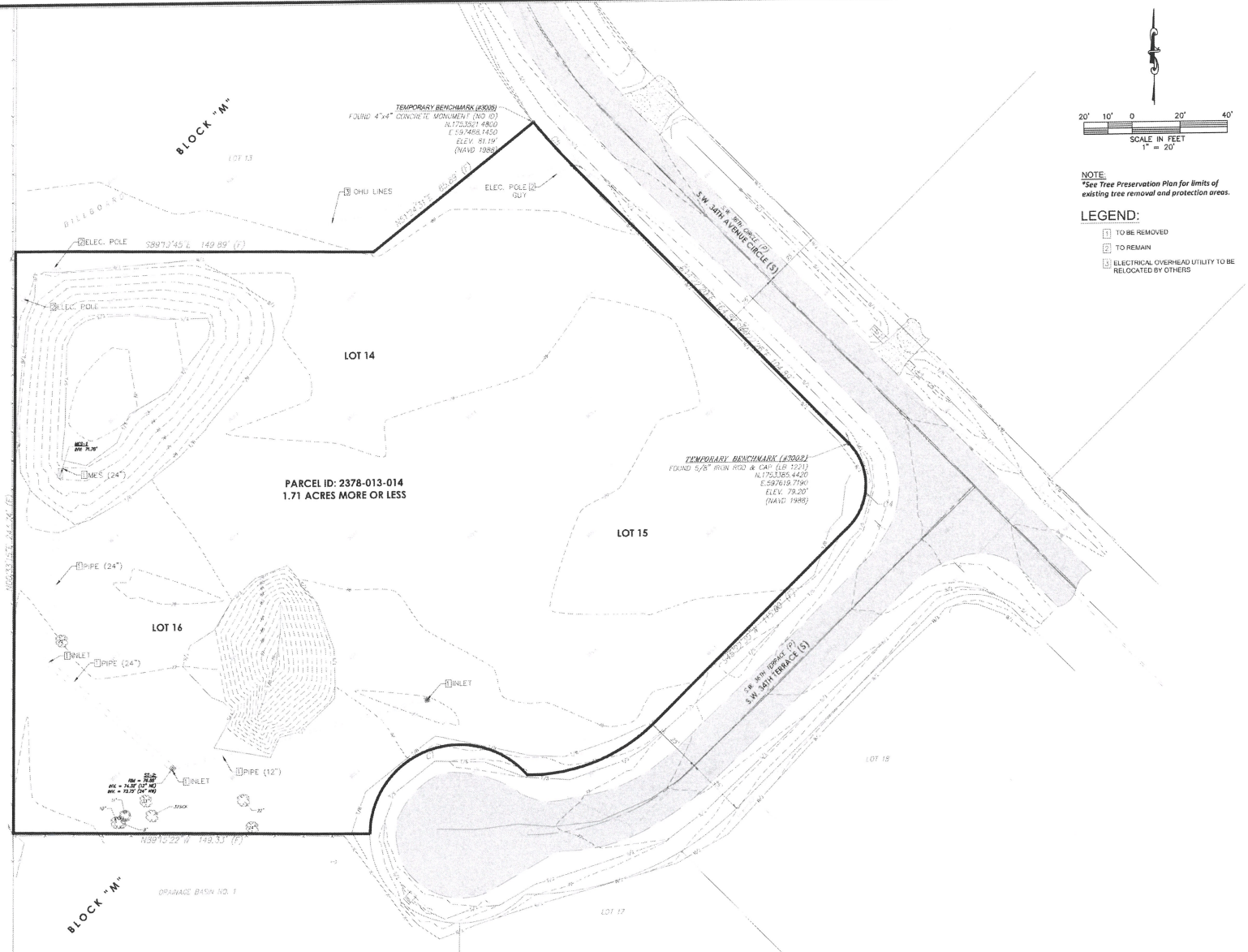
AERIAL PHOTOGRAPH

DATE: 10/27/21
DRAWN BY: MR
CHKD. BY: TB
JOB NO. 18-4039

SHT. 03.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

on County\Armstrong College Park Apts\CIVIL\CONSTRUCTION\03. AERIAL PHOTOGRAPH.dwg, 10/27/2021 2:13:53 PM, , AutoCAD PDF (General Documentation).pc3, 1:1



20' 10' 0 20' 40'
SCALE IN FEET
1" = 20'

NOTE:
See Tree Preservation Plan for limits of existing tree removal and protection areas.

LEGEND:

1. TO BE REMOVED
2. TO REMAIN
3. ELECTRICAL OVERHEAD UTILITY TO BE RELOCATED BY OTHERS

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

REVISIONS

DATE

MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES
CITY OF OCALA, MARION COUNTY, FLORIDA

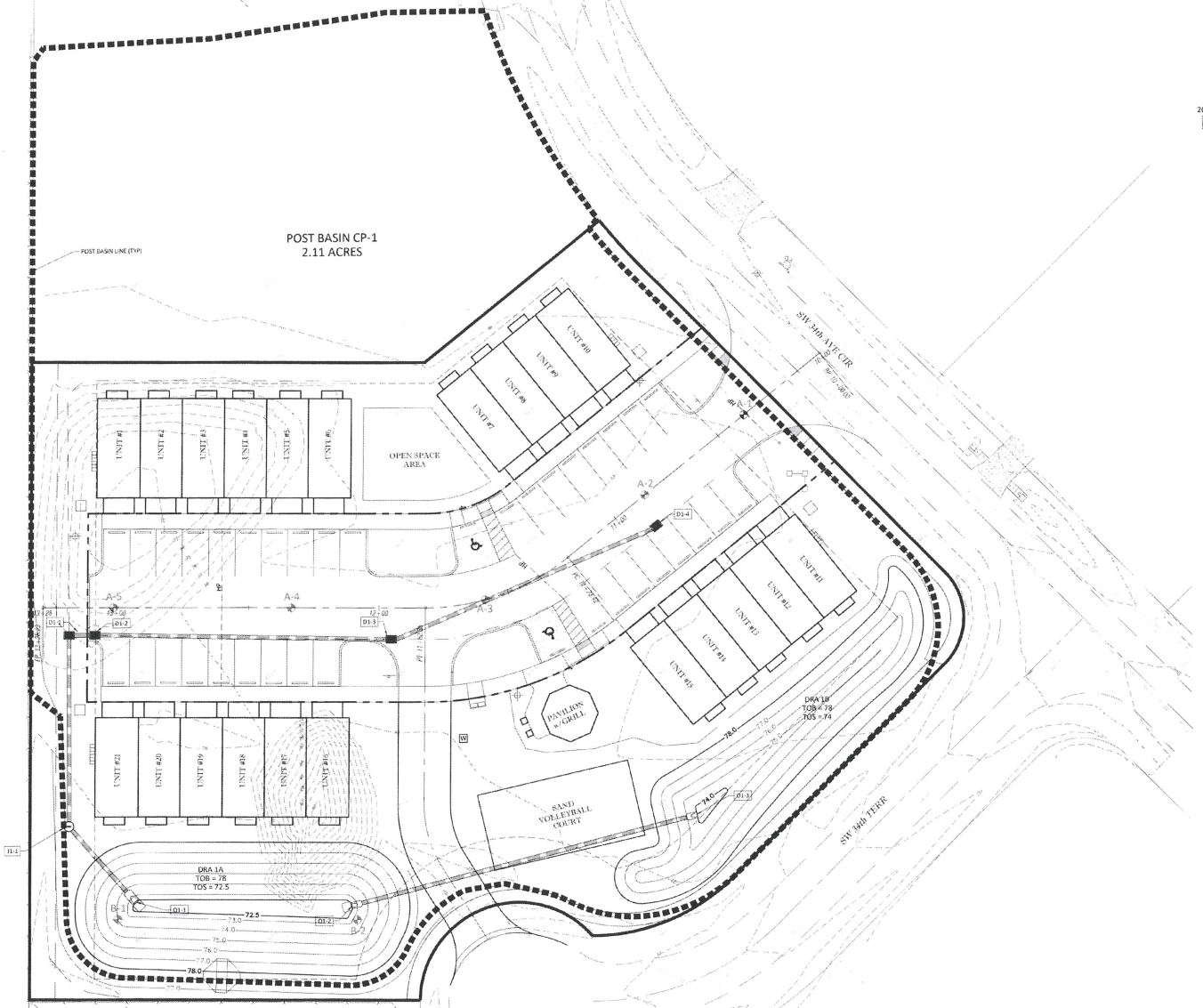
DEMOLITION PLAN

DATE 10/27/21
DRAWN BY MR
CHKD. BY TB
JOB NO. 18-4039

SHT. 04.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

...n County\Armstrong College Park Apts\CIVIL\CONSTRUCTION\04 DEMO PLAN.dwg, 10/27/2021 2:14:02 PM, _AutoCAD PDF (General Documentation).pc3, 1:1



20' 10' 0 20' 40'

SCALE IN FEET
1" = 20'

SEE SHEET BL.01 FOR SOIL PROFILES

MAINTENANCE PRACTICES AND SCHEDULES

1. ALL STORM WATER PIPES, INLETS, CATCH BASINS, MANHOLES, FLUMES, POND INFLOW AND OUTFALL STRUCTURES (INCLUDING OIL SKIMMERS), AND DISCHARGE PIPES SHOULD BE INSPECTED ON A MONTHLY BASIS AND AFTER MAJOR RAINFALLS. THEY SHOULD BE MAINTAINED BY REMOVING BUILT-UP DEBRIS AND VEGETATION AND REPAIRING DETERIORATING STRUCTURES. THE ENTITY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF DRAINAGE FACILITIES AND SYSTEMS WILL BE "ARMSTRONG LANDS, LLC".

DRAINAGE SUMMARY

THE PROJECT LIES IN FEMA FLOOD ZONE X AND IS CURRENTLY UNDEVELOPED MAINTAINED GRASSLANDS AND SCATTERED TREES WITH NO EXISTING IMPERVIOUS AREA DRAINING TO IT. THE DRAINAGE FOR THE PROJECT WILL BE DESIGNED AS ONE BASIN, CP-1, ROUTING STORMWATER TO RETENTION AREAS DRA 1A AND DRA 1B. BOTH RETENTION AREAS ARE DESIGNED AS ONLINE RETENTION AREAS INTERCONNECTED WITH AN 18" STORMWATER PIPE. THE STORMWATER SYSTEM WILL COMPLETELY RETAIN THE RUNOFF FROM THE MEAN ANNUAL STORM EVENT, AND ATTENUATE THE PRE-POST RUNOFF RATE AND RUNOFF VOLUME FROM THE 100-YEAR/24-HOUR STORM EVENT. THE POND IS DESIGNED TO DISCHARGE THROUGH A CONCRETE WEIR ON THE SOUTH SIDE OF DRA 1A, WHERE IT WILL DISCHARGE OFF-SITE TO THE SOUTH, AS THE PROPERTY CURRENTLY DOES. THE STORMWATER SYSTEM ALSO MEETS THE SJRWMD WATER QUALITY REQUIREMENTS AND THE SJRWMD AND CITY OF OCALA RECOVERY REQUIREMENTS.

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

REVISIONS

DATE

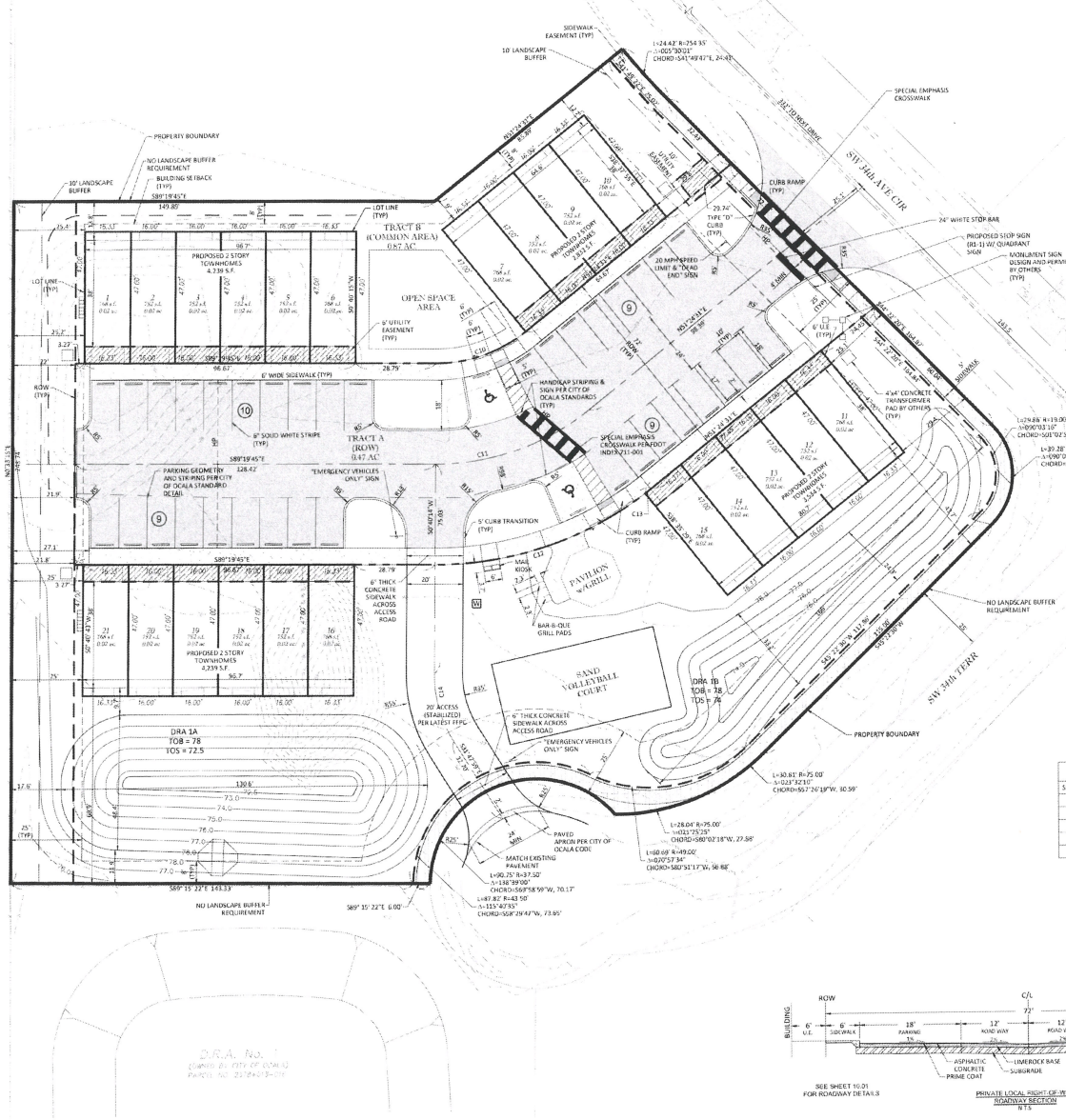
MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES
CITY OF OCALA, MARION COUNTY, FLORIDA

MASTER DRAINAGE PLAN

DATE: 10/27/21
DRAWN BY: MR
CHKD. BY: TB
JOB NO. 18-4039

SHT. 05.01

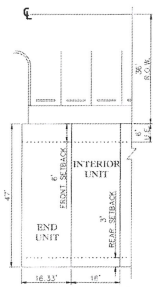
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



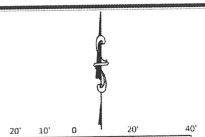
PARCEL CURVE DATA			
SEGMENT	LENGTH	RADIUS	DELTA
C10	34.08	50.00	39.05
C11	58.93	86.00	39.26
C12	80.38	122.00	37.75
C13	3.22	122.00	1.51
C14	25.50	45.00	32.47

SEE SHEET 10.01 FOR ROADWAY DETAILS

PRIVATE LOCAL RIGHT-OF-WAY ROADWAY SECTION
N.T.S.



TYPICAL LOT LAYOUT
N.T.S.
U.E. = UTILITY EASEMENT
℄ = CENTERLINE OF RIGHT OF WAY



SCALE IN FEET
1" = 20'

NOTE:
*See Tree Preservation Plan for limits of existing tree removal and protection areas.

SITE DATA

PROJECT LOCATION: SEC26, TWP 15 RNG 21
P.I.D.: 2378-013-014
DEVELOPER: ARMSTRONG LAND LLC
CONTACT: PARKER HIKUMS
PHONE: (813) 574-5720
SITE ADDRESS: T B D.
SITE AREA: 3.72 ACRES
ZONING: R3
LAND USE: NEIGHBORHOOD
PROPOSED BUILDING HEIGHT: 25'-4"
PROPOSED LOTS: 21
TOTAL BUILDING SQUARE FOOTAGE: 27,712 S.F.
THIS PROJECT WILL BE PLATTED AS FEE SIMPLE LOTS

SITE COVERAGE:

TOTAL SITE AREA	= 74,533 S.F. (1.71 AC.)
PROPOSED DRAINAGE RETENTION AREAS	= 9,834 S.F. (0.23 AC.)
PROPOSED OPEN SPACE	= 40,210 S.F. (0.92 AC.)(53.9%)
REQUIRED OPEN SPACE (20%)	= 14,907 S.F. (0.34 AC.)
BUILDING IMPERVIOUS AREA:	= 14,844 S.F. (.34 AC.)
IMPERVIOUS AREA:	= 19,438 S.F. (.45 AC.)
TOTAL IMPERVIOUS AREA:	= 34,282 S.F. (.79 AC.)

PARKING CALCULATIONS:

(BASED ON 1.5 PARKING SPACE PER UNIT)

PROPOSED UNITS	= 21 UNITS
PARKING REQUIRED	= 21 x 1.5 SPACES PER UNIT= 32 SPACES
PARKING PROVIDED	= 57 PARKING SPACES (2 DISABLED; 55 REGULAR)

NOTES

1. ALL RIGHT OF WAY WIDTH AT INTERSECTIONS TO BE 25'.
2. PRIVATE ROAD STATUS WITH 72' RIGHT-OF-WAY WIDTH.
3. ALL LOTS IN THIS SUBDIVISION WILL BE SERVED BY CENTRAL WATER AND SEWER.
4. ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE CITY OF OCALA LAND DEVELOPMENT CODE.
5. H.O.A. IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF BOTH NEW AND REPLACEMENT (DIAGRANT STREET SIGNS.
6. H.O.A. IS RESPONSIBLE FOR THE STORM WATER MAINTENANCE.
7. SIGNAGE MAY BE ALLOWED UP TO ONE FREE STANDING SIGN STRUCTURE PER DEVELOPMENT NOT EXCEEDING 12 SQUARE FEET. THE SIGN SHALL BE APPROVED AS PART OF THE DEVELOPER'S AGREEMENT AND SHALL NOT INCLUDE ANY INTERNAL ILLUMINATION OR ANIMATION. ADDITIONAL PERMITS WILL BE REQUIRED FOR MONUMENT SIGNAGE.
8. PROPOSED LOT SIZES, SETBACKS, YARDS, FRONTAGE REQUIREMENTS AND DENSITY ARE CONTINGENT UPON APPROVAL OF THE REQUIRED SITE PLAN AND DEVELOPERS AGREEMENT.
9. TRACT B IS RESERVED FOR LANDSCAPING, RECREATION, DRAINAGE AND UTILITY, MAINTENANCE, INGRESS, EGRESS, SIGNAGE AND SUCH OTHER PURPOSES THAT ARE LEGALLY PERMITTED.
10. STREET RIGHT-OF-WAY, DELINEATED AS TRACT A IS COMMON AREA.
11. ALL PERMANENT PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THERMO PLASTIC PER FDOT DESIGN STANDARDS (LATEST VERSION).
12. ALL PEDESTRIAN ACCESS CONNECTIONS TO BUILDINGS SHALL BE CONSTRUCTED PER LATEST FLORIDA BUILDING CODE. CONNECTION SHOWN ON CIVIL PLANS ARE GRAPHICAL REPRESENTATION ONLY.

PAVEMENT MARKING NOTES

ALL MARKINGS PER FDOT 711-001 & 711-102
ALL MARKINGS WITHIN PUBLIC RIGHT OF WAY TO BE THERMOPLASTIC PER LATEST FDOT DESIGN STANDARDS

TRAFFIC STATEMENT

I.T.E. CODE 220 "MULTI-FAMILY HOUSING (LOW RISE)
DAILY AVERAGE - T=7.56(X)-40.86 T=118 TRIPS/DAY
PM PEAK HOUR - UNIT) = 0.49 (X)(-) - 0.07
T = 15 TRIPS/HOUR
(63%) ENTERING, (37%) EXITING

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 #28056

REVISIONS

DATE

MAJOR SITE PLAN
COLLEGE PARK TOWNHOMES
CITY OF OCALA, MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE 2/3/22
DRAWN BY MR
CHKD BY TB
JOB NO. 18-4039

SHT 06.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER