

December 17, 2024

PROJECT NAME: BEL LAGO NORTH HAMLET RESIDENTIAL

PROJECT NUMBER: 2004120076

APPLICATION: IMPROVEMENT PLAN #30620

- 1 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Additional Stormwater comments
STATUS OF REVIEW: INFO
REMARKS: If you have questions or would like to discuss the stormwater review comments, please contact Kevin Vickers, PE at 352-671-8695 or kevin.vickers@marionfl.org.
- 2 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Copy of District Permit (County Interest)
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the District permit prior to construction.
- 3 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.
- 4 DEPARTMENT: ENRAA - ACQ AGENT ENG ROW
REVIEW ITEM: Improvement Plan
STATUS OF REVIEW: INFO
REMARKS: IF APPLICABLE:
Sec. 2.18.1.I - Show connections to other phases.
Sec.2.19.2.H – Legal Documents
Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc.
Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate)
For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public."
Sec. 6.3.1.B.2 – Required Right of Way Dedication
For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."
Sec. 6.3.1.D.3 - Cross Access Easements
For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]."
Sec. 6.3.1.C.1 - Utility Easements (select as appropriate)
"[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider."
Sec. 6.3.1.C.2 – Utility Easements
"[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."
Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate:
1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are

dedicated [private or to the public] for the construction and maintenance of such facilities."

2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."

3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."

Sec.6.3.1.D(f) –

If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]."

5 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: Additional Development Review Comments

STATUS OF REVIEW: INFO

REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24"x 36" sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.

6 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: 6.12.9.F - Public dedications shall be pre-approved by DRC. If an MSBU is established as the maintenance and operation entity, roads and stormwater facilities can be platted as public

STATUS OF REVIEW: INFO

REMARKS:

7 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: 6.3.1.F(1) - A copy of the documents demonstrating the establishment of a corresponding MSBU, CDD, or other State recognized special district responsible for the maintenance and operation of the dedicated improvements

STATUS OF REVIEW: INFO

REMARKS:

8 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: 2.19.4.C - No Final Plat shall be accepted for filing by the Clerk of the Circuit Court until...an MSBU, CDD, or other special district for the purposes of maintaining the improvements for this plat has been established

STATUS OF REVIEW: INFO

REMARKS:

9 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW

REVIEW ITEM: 2.18.2.G - Easement requirements of each utility shall be indicated by the utility on a copy of the Preliminary Plat or by letter. (Letters/emails of easement acceptance due with improvement plan.)

STATUS OF REVIEW: INFO

REMARKS:

- 10 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.12.4.K - List of approved waivers, conditions, date of approval
STATUS OF REVIEW: INFO
REMARKS: 1/30/24 - add waivers if requested in the future
- 11 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Utilities Plan Review Fee per Resolution 15-R-583 - payable to Marion County Utilities
STATUS OF REVIEW: INFO
REMARKS: as of 11/20/24 review unpaid
\$605 - 7 sheets for utility review . To pay by phone call 352-671-8686 and refer to Utility Review Fee for AR 30620 to clear this checklist item prior to the resubmittal. The fee will not change for additional reviews.
- 12 DEPARTMENT: DOH - ENVIRONMENTAL HEALTH
REVIEW ITEM: Additional Health comments
STATUS OF REVIEW: INFO
REMARKS: Central Sewer / Central Water
- 13 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Please provide a final signed and sealed hard copy signature page with references to the stormwater analysis or final hard copy of the full stormwater analysis.
STATUS OF REVIEW: NO
REMARKS: After all stormwater comments are resolved, please upload a digitally signed and sealed report. A hard copy signed and sealed report can be submitted if desired.
- 14 DEPARTMENT: ENGTRF - TRAFFIC REVIEW
REVIEW ITEM: 6.12.12 - Sidewalks
STATUS OF REVIEW: NO
REMARKS: 11/22/24 - Rural land classification provides an exemption for the sidewalks that would otherwise be required along SW HWY 200, but it does not provide for an exemption to the requirement for installation minimally along one side of the internal streets.
8/5/24 - Refer to previous comment - sidewalk is required minimally along one side of internal streets regardless of rural vs urban designation unless a waiver is obtained from the Development Review Committee.
1/12/24 - Sidewalk is required on at least one side of the street.
- 15 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 2.12.25 - Marion Friendly Landscape Areas
STATUS OF REVIEW: NO
REMARKS: 1. Code clearly states that MFLA shall not be located on residential lots. Waiver required.



**Marion County
Board of County Commissioners**

Office of the County Engineer

412 SE 25th Ave.
Ocala, FL 34471
Phone: 352-671-8686
Fax: 352-671-8687

AR #30620

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Date: 12/17/2024 Parcel Number(s): 40754-000-00 Permit Number: 30620

A. PROJECT INFORMATION: Fill in below as applicable:

Project Name: Bel Lago North Hamlet Residential Commercial Residential
Subdivision Name (if applicable): _____
Unit _____ Block _____ Lot _____ Tract _____

B. PROPERTY OWNER'S AUTHORIZATION: The property owner's signature authorizes the applicant to act on the owner's behalf for this waiver request. The signature may be obtained by email, fax, scan, a letter from the property owner, or original signature below.

Name (print): Peter Rosbeck
Signature: _____
Mailing Address: 14130 SW 121st Court City: Dunnellon
State: FL Zip Code: 34432 Phone # (352) 427-8900
Email address: prosbeck@icloud.com

C. APPLICANT INFORMATION: The applicant will be the point of contact during this waiver process and will receive all correspondence.

Firm Name (if applicable): Tillman & Associates Engineering, LLC Contact Name: Timothy Brooker, P.E.
Mailing Address: 1720 SE 16th Ave., Bldg 100 City: Ocala
State: FL Zip Code: 34471 Phone # (352) 387-4540
Email address: permits@tillmaneng.com

D. WAIVER INFORMATION:

Section & Title of Code (be specific): 6.12.12 - Sidewalks
Reason/Justification for Request (be specific): Request to not construct sidewalk along either side of internal roadway. This is phase 3 of rural land Hamlet subdivision and the previous phases of this project do not have sidewalk along the internal roads. Additionally, this development includes miles of existing trails for residents use.

DEVELOPMENT REVIEW USE:

Received By: Email 12/17/24 Date Processed: 12/17/24 CF _____ Project # 2004120076 AR # 30620

ZONING USE: Parcel of record: Yes No Eligible to apply for Family Division: Yes No
Zoned: _____ ESOZ: _____ P.O.M. _____ Land Use: _____ Plat Vacation Required: Yes No
Date Reviewed: _____ Verified by (print & initial): _____



**Marion County
Board of County Commissioners**

Office of the County Engineer

412 SE 25th Ave.
Ocala, FL 34471
Phone: 352-671-8686
Fax: 352-671-8687

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Section & Title of Code (be specific) _____ 2.12.25 - Marion Friendly Landscape Areas

Reason/Justification for Request (be specific): Request to use drainage easements around DRAs 2, 3, 4, & 5 as well as the rear 75' of Tracts D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, & S for MFLA calculations. Note to be provided on plans and HOA docs to be provided.

Section & Title of Code (be specific) _____

Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____

Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____

Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____

Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____

Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____

Reason/Justification for Request (be specific): _____

UTILITY COMPANIES

WATER	MARION COUNTY UTILITIES	CUSTOMER SERVICE 24/7/365	352-307-6000
ELECTRIC	DUKE ENERGY	SHANE MCKINNEY	352-566-2369
CABLE/PHONE	CENTURY LINK	BILL MCCLLOUD	850-599-1444
/INTERNET	ZITO MIDWEST	BEN ARDILES	352-496-0470

PERMITS:

- MARION COUNTY - IMPROVEMENT PLAN - PENDING
- 8 W.F.W.A.I.D. - E.R.P. - PENDING
- FDEP - NPDES (By Others)

WAIVERS:

- 613.2.A(3) - RETENTION/DETENTION AREA DESIGN PARAMETERS. WAIVER REQUESTED TO HAVE A MINIMUM BERM WIDTH OF 5 FEET FOR RETENTION/DRAINAGE AREAS.

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.

TEMPORARY BENCHMARK:

TEMPORARY BENCHMARK #1000 ITCSS/8 LB8071 (BASE)
N: 170441.800 E: 55117.476 ELEV: 61.57' (NAVD 1988)

TEMPORARY BENCHMARK #990 (NOBUILT)
N: 170408.0100 E: 55837.0810 ELEV: 59.60' (NAVD 1988)

LEGAL DESCRIPTION:

THE SOUTH 1/4 OF THE 1/2, AND THE S.W. 1/4 OF THE N.E. 1/4, AND THE S.E. 1/4 OF SECTION 8, TOWNSHIP 17 SOUTH, RANGE 20 EAST.

AND

THE NORTH 1/4 OF THE N.W. 1/4, AND THE PORTION OF N.E. 1/4 LYING WESTERLY OF STATE ROAD 207 IN SECTION 17, TOWNSHIP 17 SOUTH, RANGE 20 EAST

LESS AND EXCEPT BEL LAGO, WEST HAMLET AS PLAT THEREOF RECORDED IN PLAT BOOK 15, PAGE 11 OF MARION COUNTY, FLORIDA

LESS AND EXCEPT BEL LAGO, SOUTH HAMLET AS PLAT THEREOF RECORDED IN PLAT BOOK 10, PAGE 86 OF MARION COUNTY, FLORIDA

LESS AND EXCEPT, ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 136, PAGE 671 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA

NOTES:

- ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE MARION COUNTY LAND DEVELOPMENT CODE AS APPLICABLE.
- BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY PANEL NO. 1280C0606D, EFFECTIVE DATE OF AUGUST 28, 2008, THE PROPERTY DESCRIBED HEREON LIES WITHIN FLOOD ZONES "X" AND ZONE "AE" AND FLOOD ZONE "A" BOTH AREAS WITHIN THE 100 YEAR FLOOD HAZARD AREA.
- VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT 1664, ELEVATION 61.15' (NAVD 1988). ELEVATIONS HAVE BEEN CONVERTED TO NGVD 1992 TO MATCH RELATIVE TO ORIGINAL ENGINEERING PLANS USING A CONVERSION OF +0.922 FEET NOW HAVING AN ELEVATION OF 64.07' (NGVD 1929).
- NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.
- THIS PROJECT IS NOT LOCATED WITHIN MARION COUNTY ESQZ

OWNER/DEVELOPER:
ARBOR SPRINGS DEVELOPMENT, L.L.C.
PETER V. ROSBECK
1430 SW 121 CT
DUNNELLON, FL 34432
PHONE: (352) 291-1300

SURVEYOR:
JCH CONSULTING GROUP
CHRISTOPHER J. HOWSON, P.S.M.
3128 NW BLITCHTON RD (HWY 27)
OCALA, FLORIDA, 34471-4524
PHONE: (352) 465-1482

CIVIL ENGINEER:
TILLMAN AND ASSOCIATES ENGINEERING, L.L.C.
TIMOTHY BROOKER, JR., P.E.
1720 SE 166 AVE, BLDG. 100
OCALA, FLORIDA 34471
PHONE: (352) 387-4548

GEOTECHNICAL CONSULTANT:
GEO TECH, INC.
CREAK HAMPT, P.E.
106 S.E. 3RD AVENUE
OCALA, FLORIDA 34471
PHONE: (352) 694-7111

IMPROVEMENT PLANS BEL LAGO NORTH HAMLET

SECTIONS 8 & 17, TOWNSHIP 17 SOUTH, RANGE 20 EAST MARION COUNTY, FLORIDA



Marion County Approval Stamp

THIS SITE CONTAINS:
RESIDENTIAL LOTS = 30
TOTAL PROJECT AREA = 150.05 ± ACRES
MILES OF ROADWAY = 0.91 MI
MARION COUNTY PARCEL: 40754-000-00
LAND USE: RURAL LAND
ZONING: RES AGRICULTURE EST
EXISTING IMPERVIOUS AREA = 0.00 AC (0.00 SF) 0.00%
PROPOSED IMPERVIOUS AREA = 11.77 AC (512,919 SF) 7.84%

INDEX OF SHEETS

01.01	COVER
02.01	GENERAL NOTES
03.01	AERIAL PHOTOGRAPH
04.01-04.04	GEOMETRY PLAN
05.01	MASTER DRAINAGE PLAN
06.01-06.02	MASTER UTILITY PLAN
06.03	OFFSITE UTILITY PLAN
07.01	SIGNAGE & STRIPING PLAN
08.01-08.04	LOT GRADING PLAN
09.01-09.05	PLAN & PROFILE
10.01	POTABLE WATER DISTRIBUTION DETAILS
11.01	ROADWAY & PAVEMENT DETAILS
12.01	DRAINAGE DETAILS
13.01	EROSION CONTROL PLAN
14.01-14.02	TREE PRESERVATION
15.01	MFLA
BL.01 - BL.02	BORING LOGS
RN.01	911 MANAGEMENT PLAN
SL.01	SLEEVING PLAN

1-4

BOUNDARY & TOPOGRAPHIC SURVEY
(PREPARED BY JCH CONSULTING GROUP, INC)

OWNER'S SIGNATURE

I HEREBY CERTIFY THAT I, MY SUCCESSORS, AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN WITHIN THESE PLANS.

ARBOR SPRINGS DEVELOPMENT, L.L.C.
PETER V. ROSBECK

ENGINEER'S CERTIFICATE

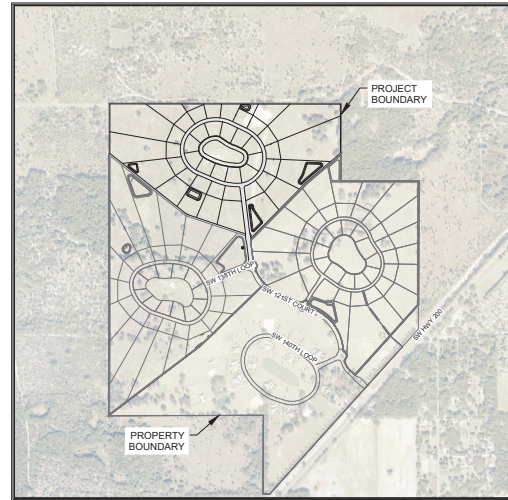
I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE (LDC), EXCEPT AS WAIVED.

TIMOTHY BROOKER, JR., P.E.
Registered Engineer No. 7029
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 MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS.

JCH CONSULTING GROUP, INC
CHRISTOPHER J. HOWSON
Registered Land Surveyor No. 4631
STATE OF FLORIDA



VICINITY MAP
SCALE: 1" = 1,000'

Tilman & Associates
ENGINEERS, L.L.C.
CIVIL ENGINEERING, PLANNING, SURVEYING, ENVIRONMENTAL,
1720 SE 166th Ave, Bldg 100, Ocala, FL 34471
OFFICE: (352) 387-4540 FAX: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #2056

NO.	DATE	REVISIONS

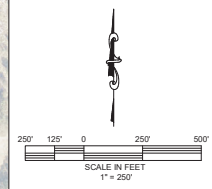
IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA

COVER

DATE: 11/13/2024
DRAWN BY: AS
CHECKED BY: TB
JOB NO.: 22-8402

SHT. 01.01

Marion County Approval Stamp



REVISIONS

DATE

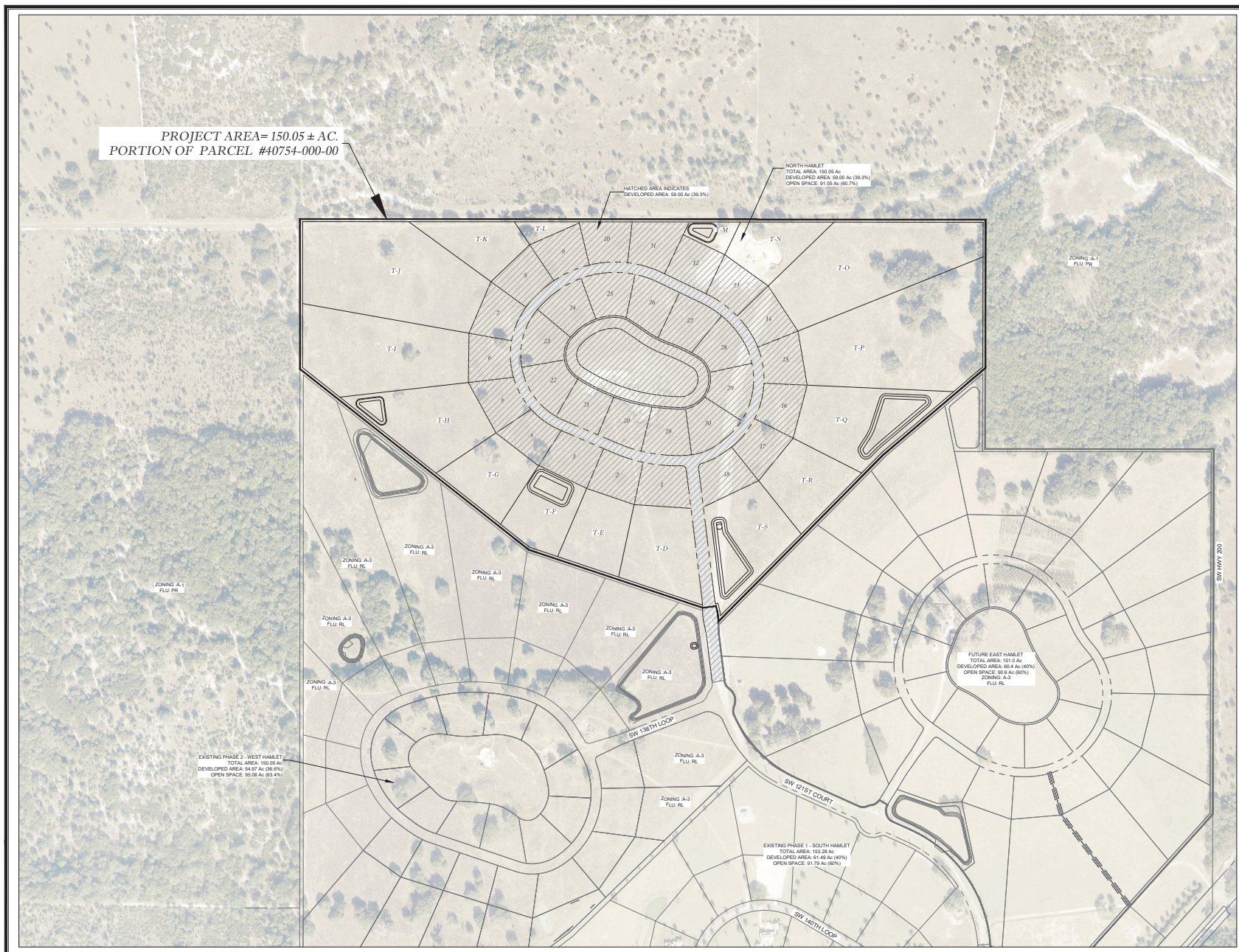
IMPROVEMENT PLANS

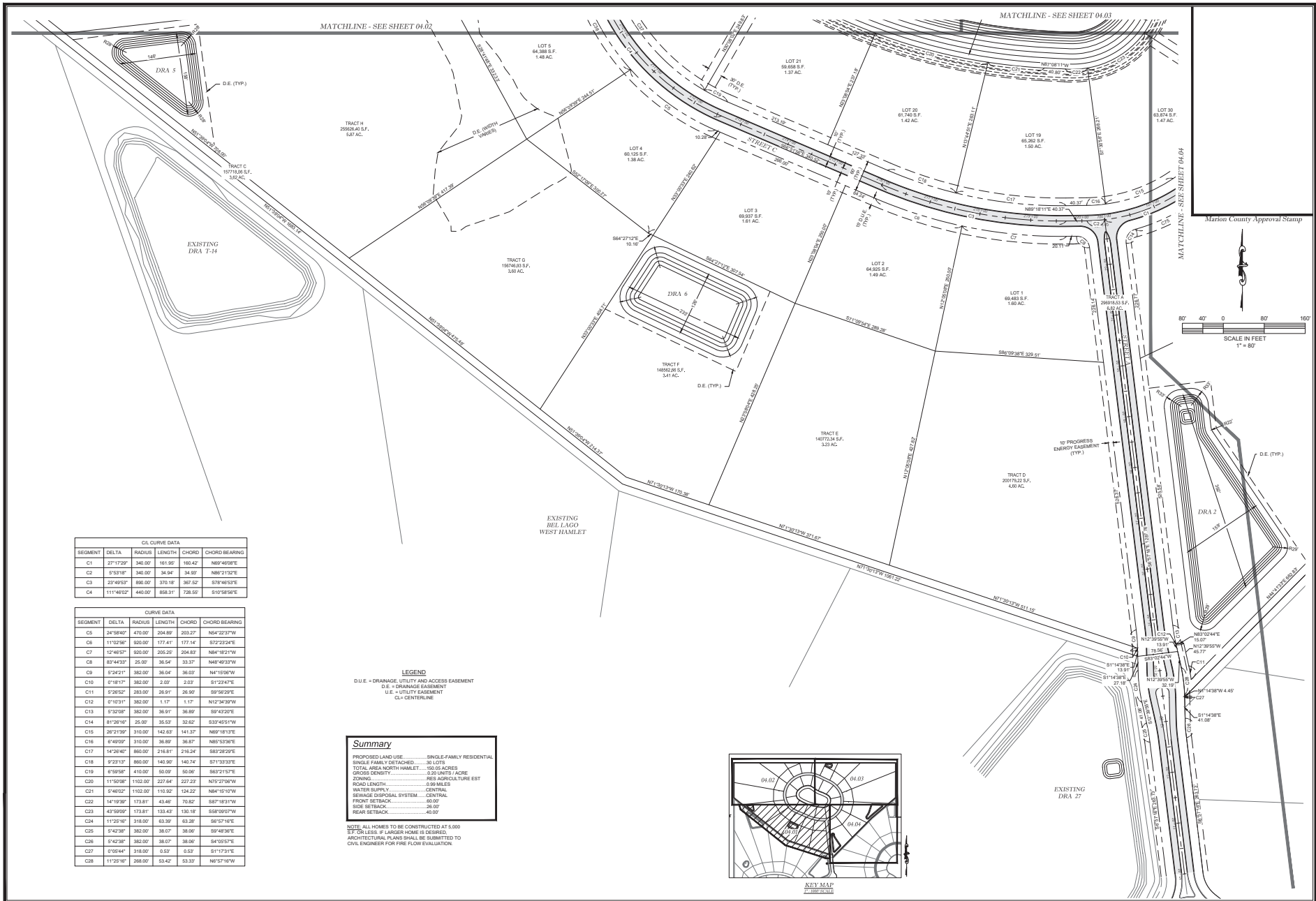
BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

DATE: 11/12/2024
 DRAWN BY: AS
 CHKD. BY: TB
 JOB NO.: 22-2402

SHT. 03.01

AERIAL PHOTOGRAPH





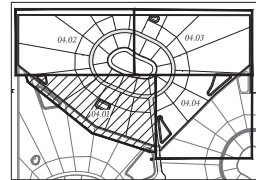
C/L CURVE DATA				
SEGMENT	DELTA	RADIUS	LENGTH	CHORD BEARING
C1	271°17'29"	340.00'	161.99'	N69°40'09"E
C2	1°53'18"	340.00'	34.94'	N89°21'30"E
C3	22°46'52"	280.00'	170.16'	S78°46'59"E
C4	111°46'02"	440.00'	858.31'	S10°58'58"E

CURVE DATA				
SEGMENT	DELTA	RADIUS	LENGTH	CHORD BEARING
C5	24°58'40"	470.00'	204.89'	N54°22'37"W
C6	11°02'58"	920.00'	177.41'	S72°23'24"E
C7	12°46'57"	920.00'	205.25'	N84°18'21"W
C8	88°48'37"	25.00'	38.54'	N49°09'37"W
C9	1°24'21"	382.00'	36.04'	N41°50'08"W
C10	0°18'17"	382.00'	2.00'	S1°32'47"E
C11	0°28'52"	283.00'	28.91'	S9°59'29"E
C12	0°10'31"	382.00'	1.17'	N12°34'39"W
C13	0°32'08"	382.00'	36.91'	S9°43'20"E
C14	81°28'18"	25.00'	35.53'	S33°45'51"W
C15	28°21'29"	310.00'	142.83'	N69°18'13"E
C16	8°49'09"	310.00'	36.89'	N85°53'06"E
C17	10°28'40"	860.00'	216.81'	S88°29'29"E
C18	1°23'13"	860.00'	149.90'	S71°33'32"E
C19	8°59'58"	410.00'	50.00'	S82°51'27"E
C20	11°50'08"	1102.00'	227.64'	N75°27'06"W
C21	0°48'02"	1102.00'	110.92'	N84°18'10"W
C22	14°19'30"	173.81'	43.46'	S87°18'13"W
C23	43°59'09"	173.81'	133.43'	S68°50'07"W
C24	11°25'18"	318.00'	63.39'	S6°57'18"E
C25	0°42'38"	382.00'	38.07'	S9°48'30"E
C26	0°42'38"	382.00'	38.07'	S4°03'57"E
C27	0°08'44"	318.00'	3.53'	S11°57'31"E
C28	11°25'18"	288.00'	63.42'	N6°57'16"W

LEGEND
 D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
 D.E. = DRAINAGE EASEMENT
 U.E. = UTILITY EASEMENT
 C/L = CENTERLINE

Summary	
PROPOSED LAND USE	SINGLE-FAMILY RESIDENTIAL
SINGLE FAMILY DETACHED	30 LOTS
TOTAL AREA NORTH HAMLET	150.05 ACRES
GROSS DENSITY	0.33 UNITS/ACRE
ZONING	RES AGRICULTURE EST
ROAD LENGTH	8.89 MILES
WATER SUPPLY	CENTRAL
SEWAGE DISPOSAL SYSTEM	CENTRAL
FRONT SETBACK	60.00'
SIDE SETBACK	28.00'
REAR SETBACK	40.00'

NOTE: ALL HOMES TO BE CONSTRUCTED AT 6.000 I/F OR LESS. IF LARGER HOME IS DESIRED, ARCHITECTURAL PLANS SHALL BE SUBMITTED TO CIVIL ENGINEER FOR FIRE FLOW EVALUATION.



William & Associates
ENGINEERING, LLC
 CIVIL ENGINEERING - P.L.L.C. LICENSE #2019000011
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34472
 Office: (352) 387-6640 Fax: (352) 387-4545
 CERTIFICATE OF AUTHORIZATION #12276

REVISIONS

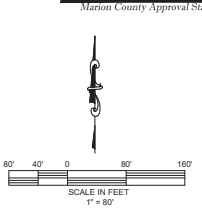
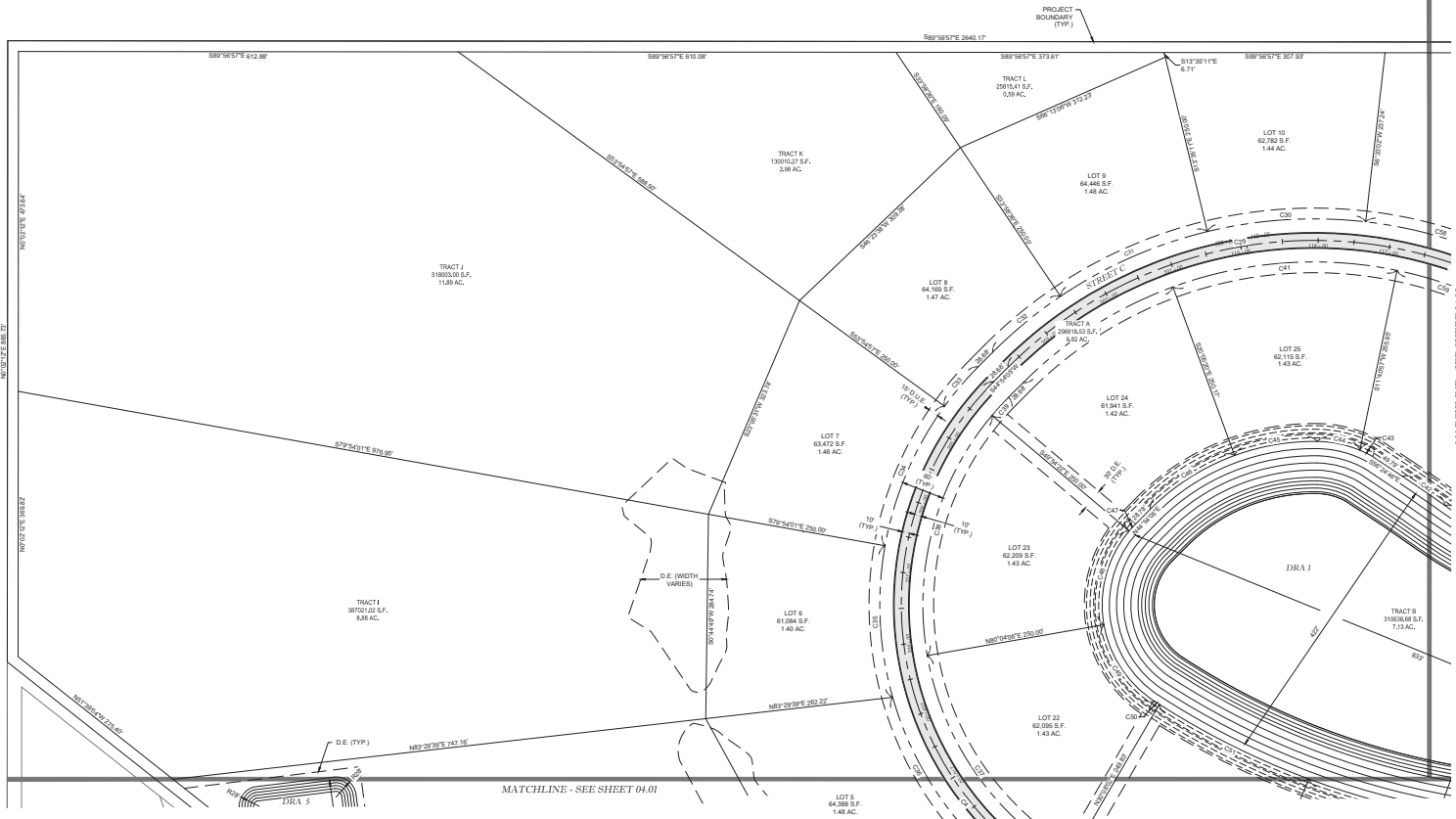
DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE: 11/12/2023
 DRAWN BY: AS
 CHKD BY: TB
 JOB NO.: 22-8402

SHT. 04.01

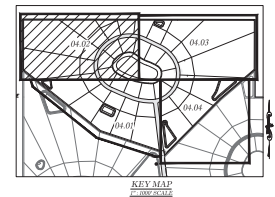


LEGEND
 D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
 D.E. = DRAINAGE EASEMENT
 U.E. = UTILITY EASEMENT
 CL = CENTERLINE

CL CURVE DATA			
SEGMENT	DELTA	RADIUS	LENGTH
C4	111°40'52"	440.00'	868.31'
C9	70°44'03"	402.00'	743.21'

CURVE DATA			
SEGMENT	DELTA	RADIUS	LENGTH
C30	20°08'13"	632.00'	222.12'
C31	20°23'28"	632.00'	224.91'
C32	11°07'19"	632.00'	122.68'
C33	8°49'02"	470.00'	72.37'
C34	25°59'55"	470.00'	213.10'
C35	25°59'37"	470.00'	213.22'
C36	25°59'23"	470.00'	213.37'
C37	49°56'04"	410.00'	307.32'
C38	50°13'23"	410.00'	307.98'
C39	4°48'27"	410.00'	34.40'
C40	25°09'34"	572.00'	249.68'

CURVE DATA			
SEGMENT	DELTA	RADIUS	LENGTH
C41	31°46'17"	572.00'	317.18'
C42	1°42'54"	2403.58'	71.94'
C43	7°05'30"	180.00'	19.81'
C44	21°49'32"	180.00'	60.90'
C45	20°51'28"	322.81'	117.51'
C46	24°59'10"	322.81'	146.41'
C47	4°48'07"	160.00'	14.42'
C48	90°10'33"	160.00'	139.70'
C49	47°09'00"	160.00'	131.49'
C50	0°24'51"	1102.00'	7.98'
C51	12°08'39"	1102.00'	233.50'



Marion County Approval Stamp

Miller & Associates
 ENGINEERING, LLC
 CIVIL ENGINEERING, PLANNING, LANDSCAPE ARCHITECTURE, ENVIRONMENTAL
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 387-4640 Fax: (352) 387-4645
 CERTIFICATE OF AUTHORIZATION #20206

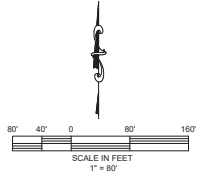
REVISIONS	DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

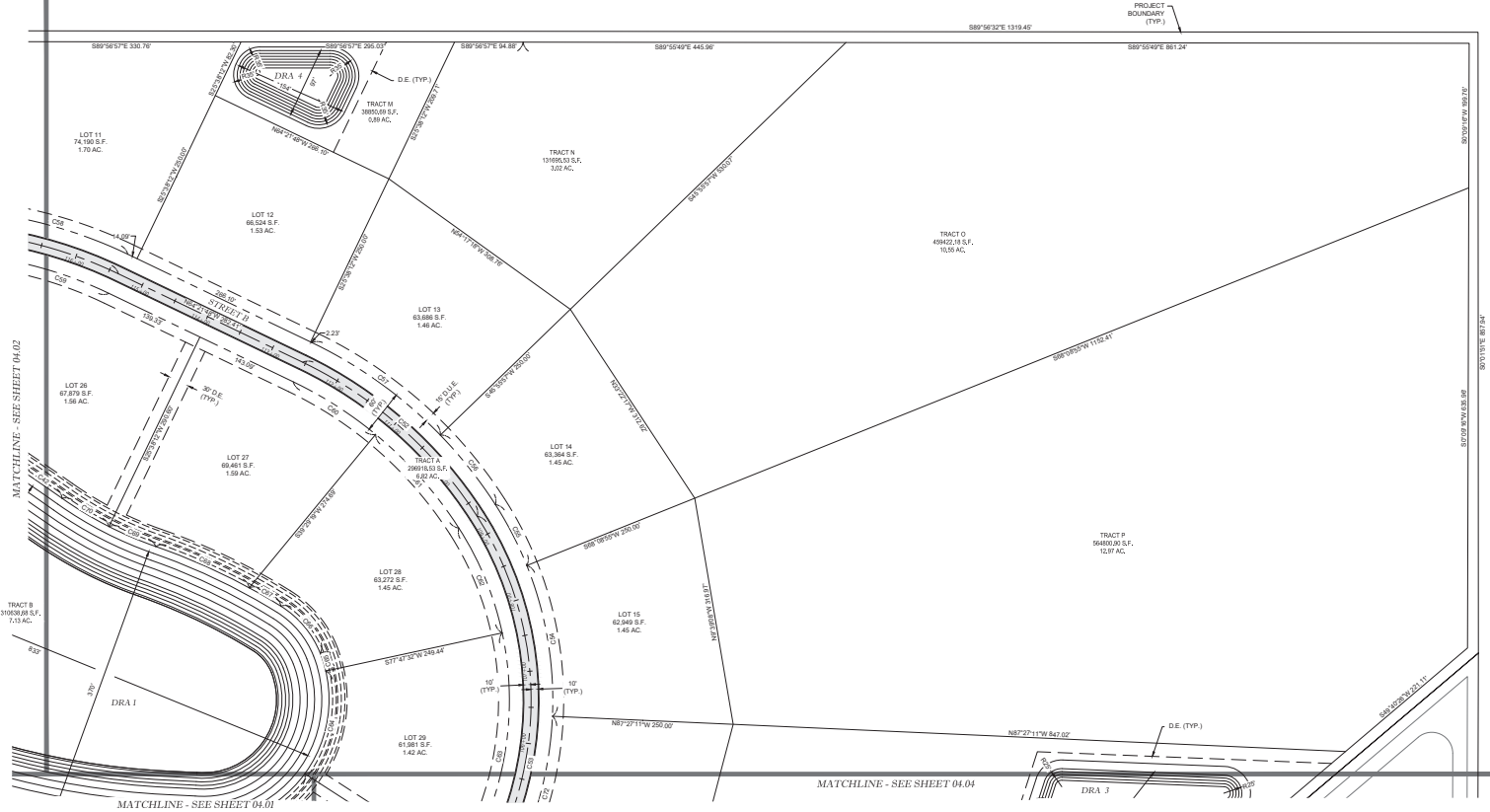
DATE: 11/12/2024
 DRAWN BY: NS
 CHKD BY: TB
 JOB NO.: 22-2402

SHT. 04.02

Marion County Approval Stamp



LEGEND
 D.U.E. = DRAINAGE UTILITY AND ACCESS EASEMENT
 D.E. = DRAINAGE EASEMENT
 U.E. = UTILITY EASEMENT
 C.L. = CENTERLINE



REVISIONS

DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA
GEOMETRY PLAN

DATE: 11/12/2024
 DRAWN BY: AS
 CHKD. BY: TB
 JOB NO. 22-2402

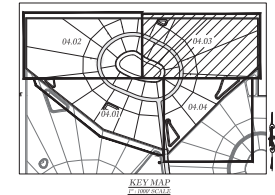
SHT. 04.03

CL CURVE DATA

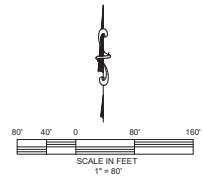
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
CS2	31°38'37"	500.00	325.85	321.72	N48°32'25"W
CS3	88°52'34"	470.00	728.78	467.93	N11°42'09"E

CURVE DATA

SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
CS4	24°23'54"	500.00	212.92	211.31	S8°39'08"E
CS5	10°52'08"	500.00	84.84	84.70	S27°17'08"E
CS6	11°25'52"	500.00	122.79	122.29	S39°29'37"E
CS8	19°05'10"	652.00	210.52	209.50	S73°54'23"E
CS9	13°57'48"	572.00	139.31	138.97	N71°20'25"W
CS0	13°51'09"	580.00	135.38	135.00	N57°28'15"W
CS1	17°47'30"	580.00	173.89	173.20	N41°39'58"W
CS2	20°30'43"	440.00	157.52	156.68	N22°27'50"W
CS3	45°04'33"	440.00	346.18	337.37	N10°19'49"E
CS4	49°19'00"	173.81	149.47	144.62	S11°31'59"W
CS5	8°26'39"	173.81	25.62	61.57	N17°48'53"W
CS6	36°39'49"	135.18	86.49	85.02	S39°52'03"E
CS7	3°19'16"	870.00	50.49	75.39	S55°12'33"E
CS8	9°18'07"	870.00	141.47	151.90	S68°10'19"E
CS9	7°43'44"	519.17	10.34	89.80	S68°30'26"E
C70	8°21'42"	519.17	75.77	84.18	S58°52'43"E
C72	24°24'54"	580.00	212.94	211.33	S14°44'50"W



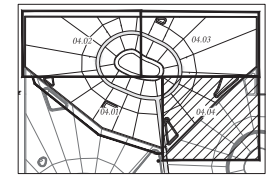
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



LEGEND
 D.U.E. = DRAINAGE UTILITY AND ACCESS EASEMENT
 D.E. = DRAINAGE EASEMENT
 U.E. = UTILITY EASEMENT
 C.L. = CENTERLINE

C.L. CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C1	27°17'29"	340.00	161.92	160.42	N69°46'08"E
C53	88°56'54"	470.00	738.76	657.83	N1°42'00"E

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C71	23°15'18"	440.00	178.89	177.38	N44°20'44"E
C72	24°24'04"	500.00	212.94	211.33	S14°44'50"W
C73	24°23'08"	500.00	212.80	211.20	S39°08'20"W
C74	4°47'23"	500.00	41.82	41.79	S83°43'42"W
C75	18°21'30"	370.00	118.56	118.06	S60°18'11"W



KEY MAP
TYPICAL SHEET

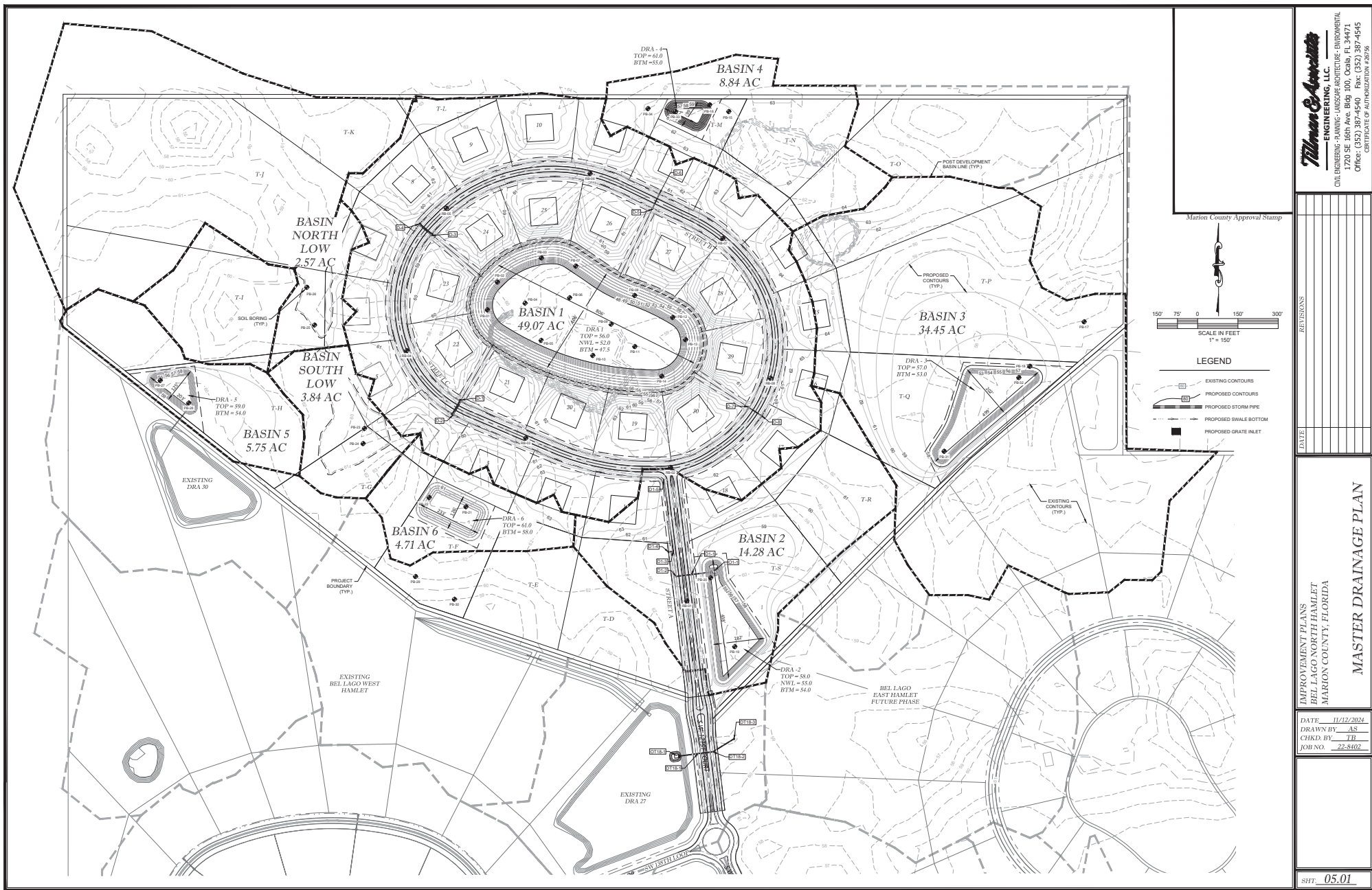
William & Associates
 ENGINEERING, LLC
 CIVIL ENGINEERING, PLANNING, LANDSCAPE ARCHITECTURE, ENVIRONMENTAL
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #20296

REVISIONS	DATE

IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA
GEOMETRY PLAN

DATE: 11/12/2024
 DRAWN BY: NS
 CHKD BY: TB
 JOB NO. 22-2402

SHT. 04.04



William & Associates
ENGINEERS, LLC
 CIVIL ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
 1726 SE 16th Ave. Box 100, Ocala, FL 34471
 Office: (352) 367-4540 Fax: (352) 367-4545
 CERTIFICATE OF AUTHORIZATION #20796

DATE	REVISIONS

Marion County Approval Stamp

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED SHALE BOTTOM
- PROPOSED GRATE INLET

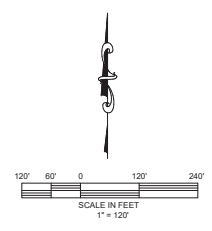
MASTER DRAINAGE PLAN

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

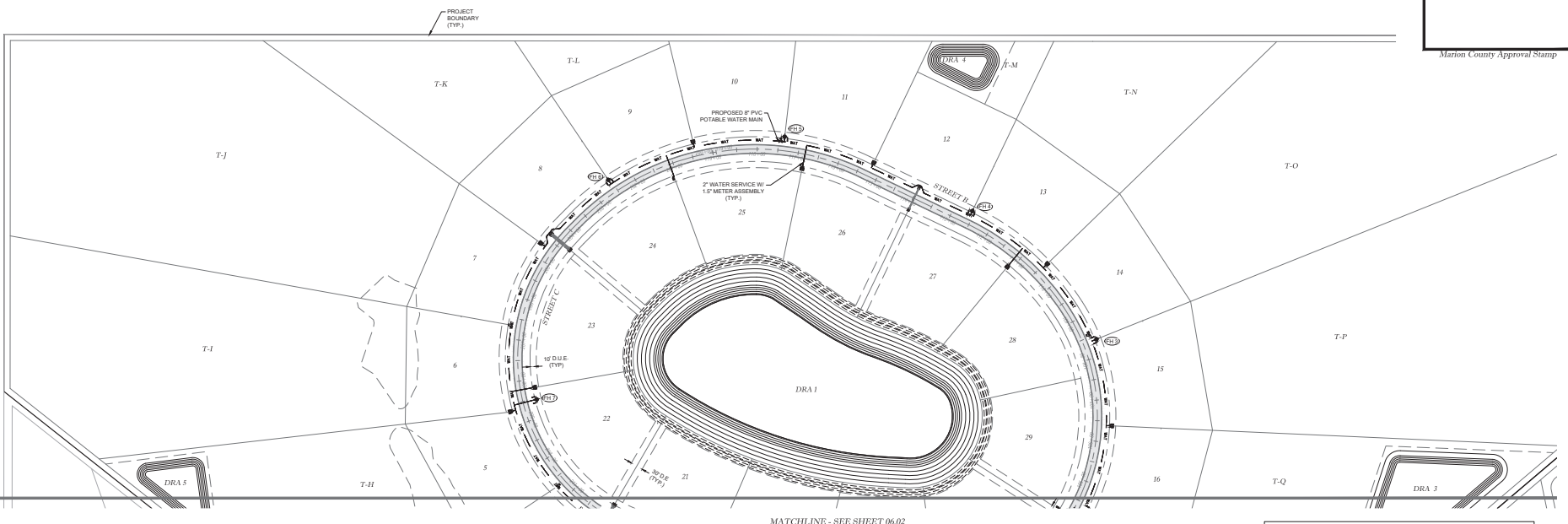
DATE: 11/12/2024
 DRAWN BY: JS
 CHECKED BY: TR
 JOB NO. 22-5402

SH. 05.01

- WATER LEGEND:**
- WATER MAIN
 - FIRE HYDRANT ASSEMBLY (FHA)
 - TEE
 - BEND
 - DOUBLE SERVICE
 - SINGLE SERVICE
 - GATE VALVE & BOX
 - REDUCER
 - BLOW OFF ASSEMBLY
 - FIRE HYDRANT NUMBER



Marion County Approval Stamp



REVISIONS

NO.	DATE	DESCRIPTION

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

MASTER UTILITY PLAN

DATE 11/12/2024
 DRAWN BY AS
 CHKD. BY TB
 JOB NO. 22-8402

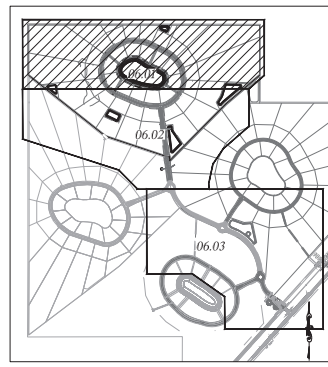
MATCHLINE - SEE SHEET 06.02

CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS

ALL PROPOSED POTABLE WATER AND SANITARY SEWER INFRASTRUCTURE SHALL COMPLY WITH THE LATEST MARION COUNTY SPECIFICATIONS.

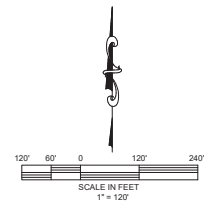
NOTES:

1. A METERED JUMPER CONNECTION WITH AN SP BACKFLOW PREVENTION ASSEMBLY IS REQUIRED BETWEEN THE EXISTING WATER MAIN AND NEWLY INSTALLED WATER MAIN UNLESS ALL CLEARANCES HAVE BEEN APPROVED AND ACCEPTED BY MARION COUNTY. THE VALVE (OR VALVES) BETWEEN EXISTING AND PROPOSED SHALL REMAIN OFF UNLESS AUTHORIZED PERSONNEL OF MARION COUNTY DEEM APPROPRIATE TO PLACE INTO SERVICE. WATER UTILIZED DURING CONSTRUCTION SHALL BE BILLED TO THE OWNER/PROPERTY LISTED ON THE IMPROVEMENT PLANS. PLEASE ACKNOWLEDGE.
2. MARION COUNTY RECOMMENDS INSTALLATION OF GLOW MEDALLION FIRE HYDRANTS. ALL CAPS AND BONNET SHALL BE POWDER COATED FROM FACTORY SAFETY BLUE.
3. ALL FIRE HYDRANTS TO BE PAINTED ACCORDING TO FLOW RATES AND NFPA 291 STANDARDS.
4. MINIMUM 2' SEPARATION BETWEEN WATER MAIN AND SIGNS TO ALLOW FOR REPAIR AND MAINTENANCE OF UTILITIES.
5. BESPIC LOCATIONS WILL BE DETERMINED AT TIME OF HOME CONSTRUCTION AND SHALL COMPLY WITH DOH STANDARDS.

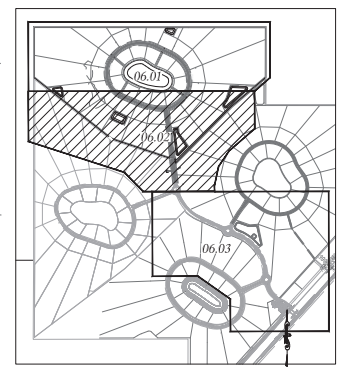
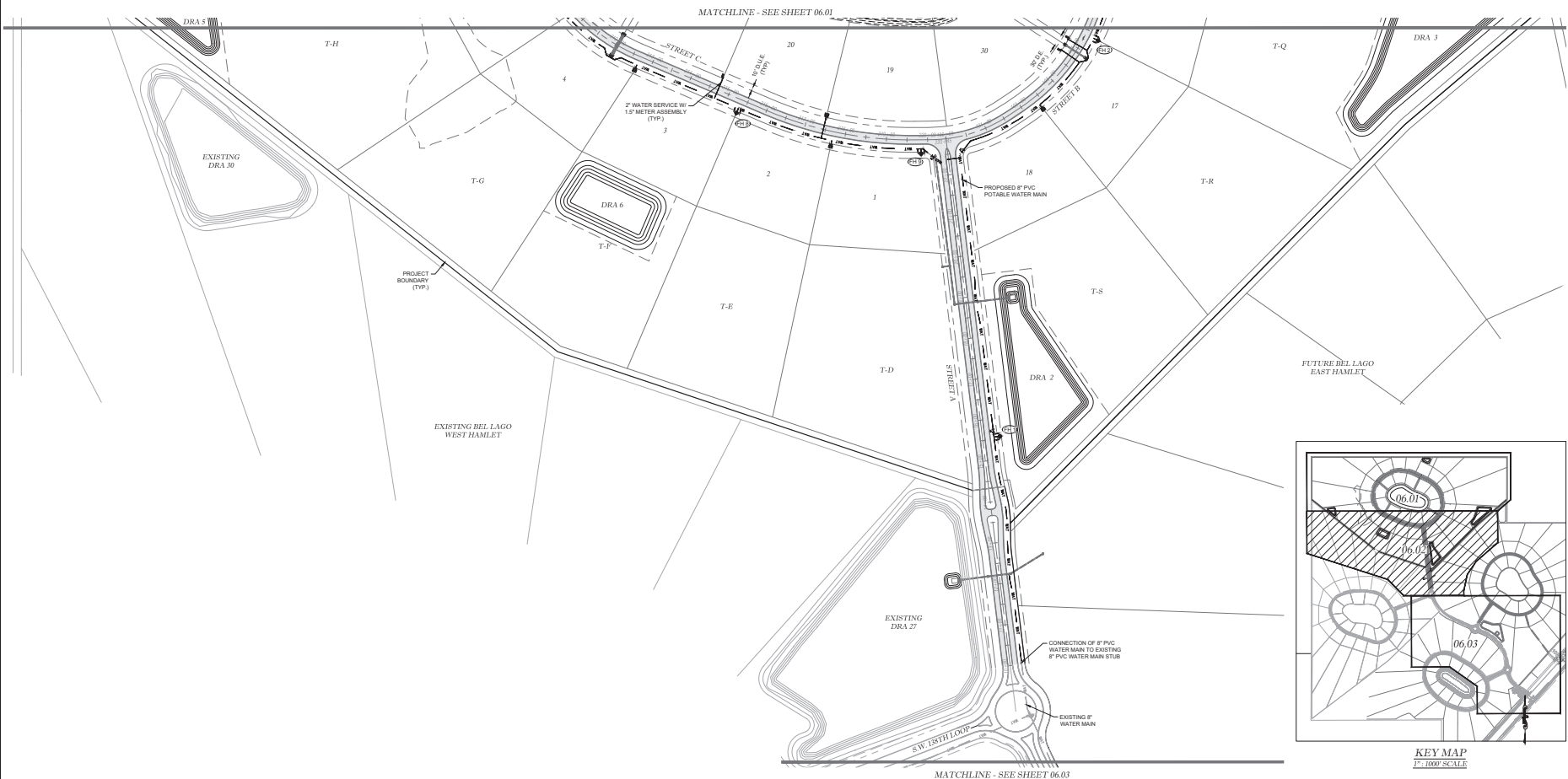


KEY MAP
 1" = 100' SCALE

- WATER LEGEND:**
- WM — WATER MAIN
 - FH — FIRE HYDRANT ASSEMBLY (FHA)
 - TEE — TEE
 - BEND — BEND
 - DS — DOUBLE SERVICE
 - SS — SINGLE SERVICE
 - GVB — GATE VALVE & BOX
 - R — REDUCER
 - BOA — BLOW OFF ASSEMBLY
 - FHN — FIRE HYDRANT NUMBER



Marion County Approval Stamp



William C. Applegate
ENGINEERS, LLC
CIVIL ENGINEERING - PLANNING - SURVEYING ARCHITECTURE - ENVIRONMENTAL
1770 SE 16th Ave. Box 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION 128795

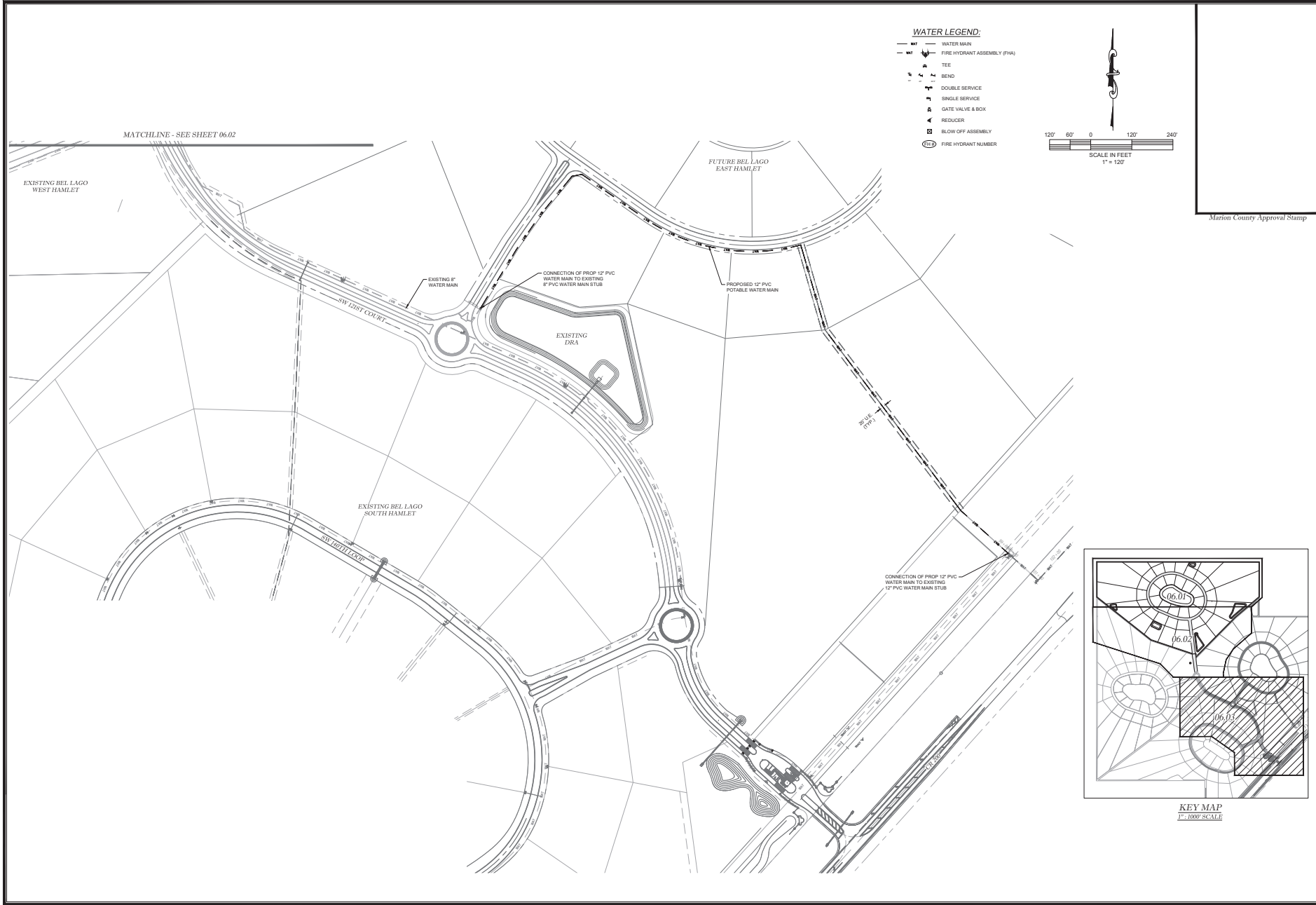
NO.	DATE	REVISIONS

IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA

DATE 11/12/2024
DRAWN BY AS
CHKD BY TB
JOB NO. 22-5402

MASTER UTILITY PLAN

SHT. 06.02



Tilman & Associates
ENGINEERS, LLC
CIVIL ENGINEERING - PLANNING - SURVEYING - ARCHITECTURE - ENVIRONMENTAL
1770 SE 16th Ave, Room 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION 126796

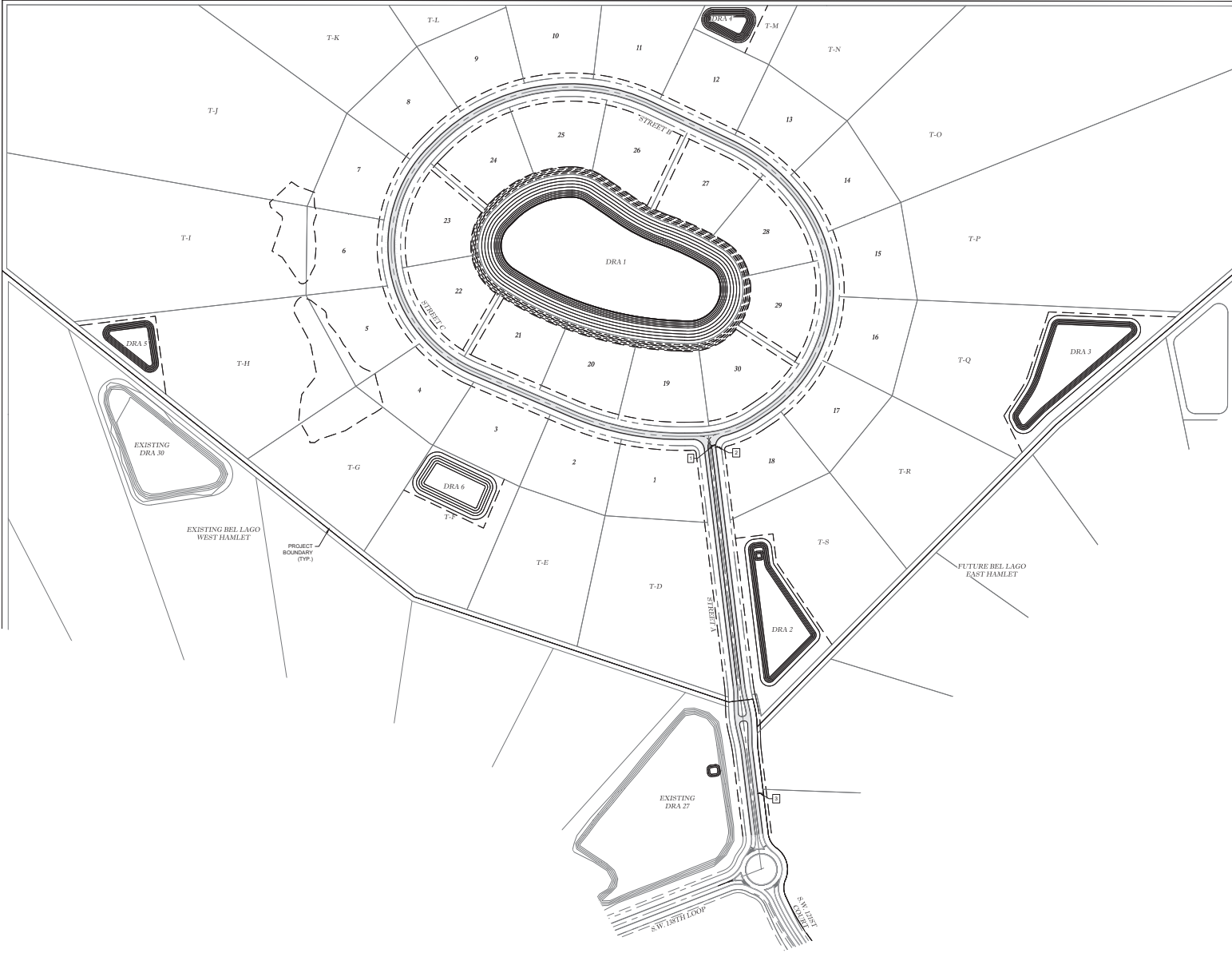
DATE	REVISIONS

IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA

OFFSITE UTILITY PLAN

DATE: 11/12/2024
DRAWN BY: AS
CHKD. BY: TB
JOB NO.: 22-8402

SHT. 06.03



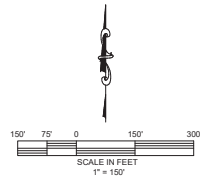
Marion County Approval Stamp

LEGEND:

- 24" WHITE STOP BAR
- "STOP" SIGN (R1-1) w/COMBINED STREET SIGNS
- "SPEED LIMIT 20MPH" SIGN (R2-1)

NOTES

1. ALL STREET NAME SIGNAGE PER 911 MANAGEMENT PLAN (SHEET RN D1)



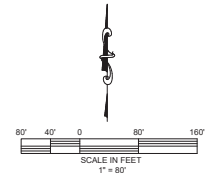
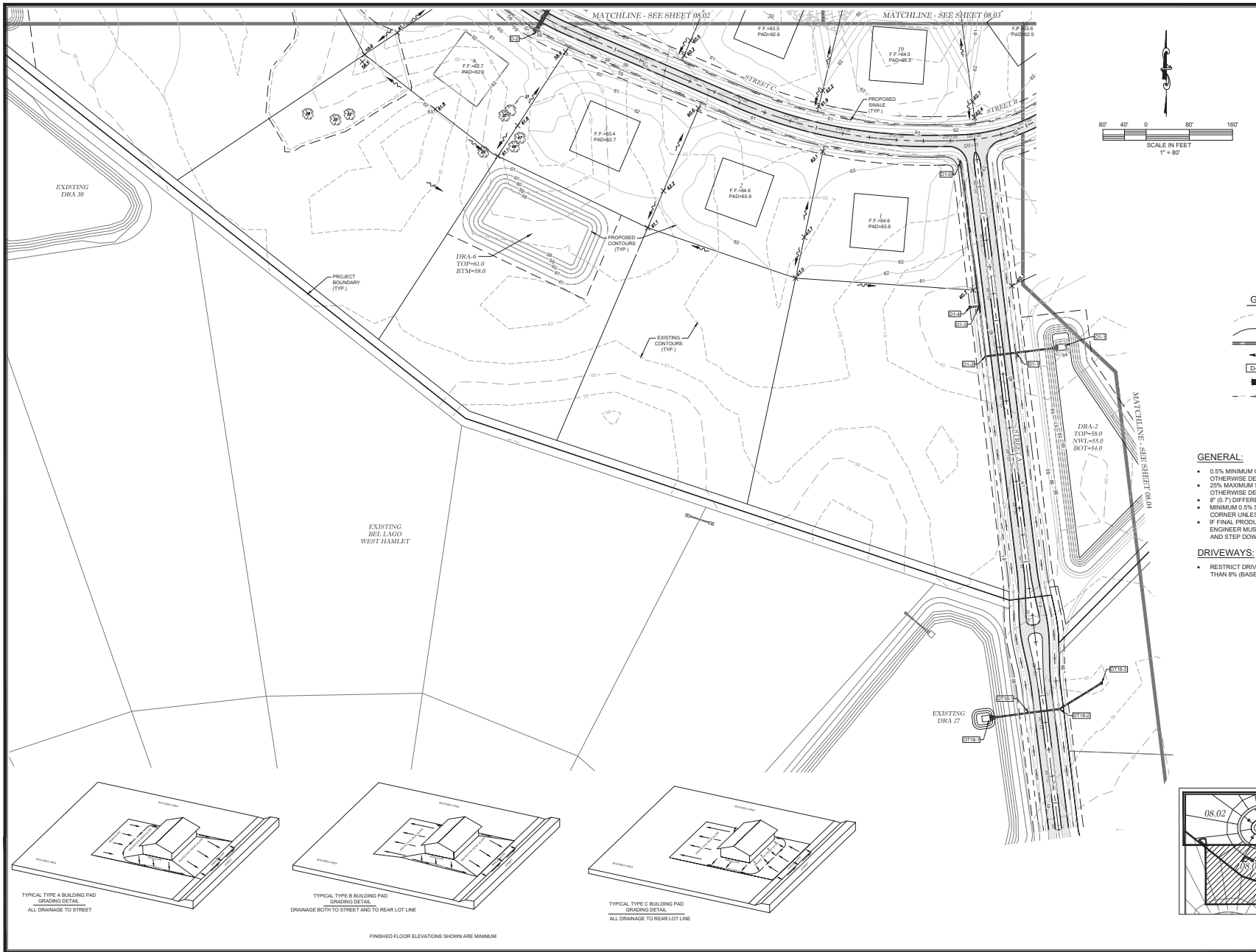
William & Associates
ENGINEERS, LLC
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
 1720 SE 16th Ave, Box 100, Ocala, FL 34471
 Office: (352) 367-4540 Fax: (352) 367-4545
 CERTIFICATE OF AUTHORIZATION # 20796

NO.	DATE	REVISIONS

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

DATE: 11/12/2024
 DRAWN BY: AS
 CHECKED BY: TR
 JOB NO.: 22-5402

SHW: 07.01



GRADING LEGEND

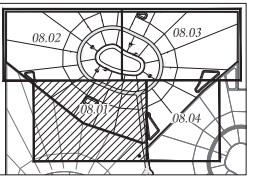
- 00 EXISTING CONTOURS
- 01 PROPOSED CONTOURS
- PROPOSED STORM PIPE
- - - - PROPOSED FLOW DIRECTION
- D-2 PROPOSED STRUCTURE ID
- ▀ PROPOSED GRATE INLET
- - - - PROPOSED SWALE BOTTOM

GENERAL:

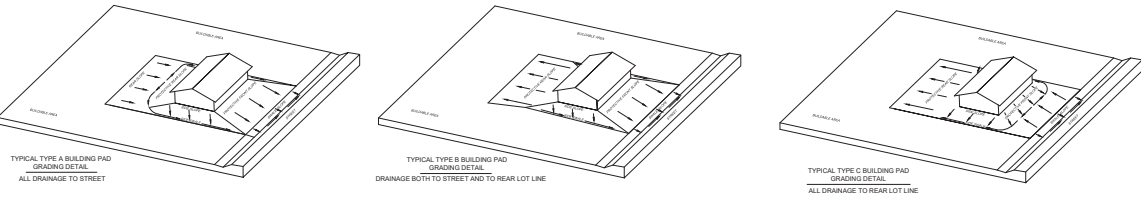
- 0.5% MINIMUM GRADE ALONG LOT LINES UNLESS OTHERWISE DENOTED.
- 2% MAXIMUM SLOPE ANYWHERE ON SITE, UNLESS OTHERWISE DENOTED.
- 6" (0.7') DIFFERENCE FROM PAD TO FINISHED FLOOR.
- MINIMUM 0.5% SLOPE FROM PAD TO ADJACENT LOT CORNER UNLESS OTHERWISE DENOTED.
- IF FINAL PRODUCT FALLS OUTSIDE OF PRESCRIBED ENGINEER MUST REVIEW AND ADDITIONAL STEPS WALLS AND STEP DOWNS MAY BE REQUIRED.

DRIVEWAYS:

- RESTRICT DRIVEWAYS TO HIGH SIDE OF LOT IF STEEPER THAN 8% (BASED ON 25' DRIVEWAY).



KEY MAP
1" = 1000' SCALE



FINISHED FLOOR ELEVATIONS SHOWN ARE MINIMUM

Marion County Approval Stamp

Timman & Associates

ENGINEERING, LLC
1720 SE 15th Ave, Bldg 100, Ocala, FL 34472
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #32296

NO.	REVISIONS	DATE

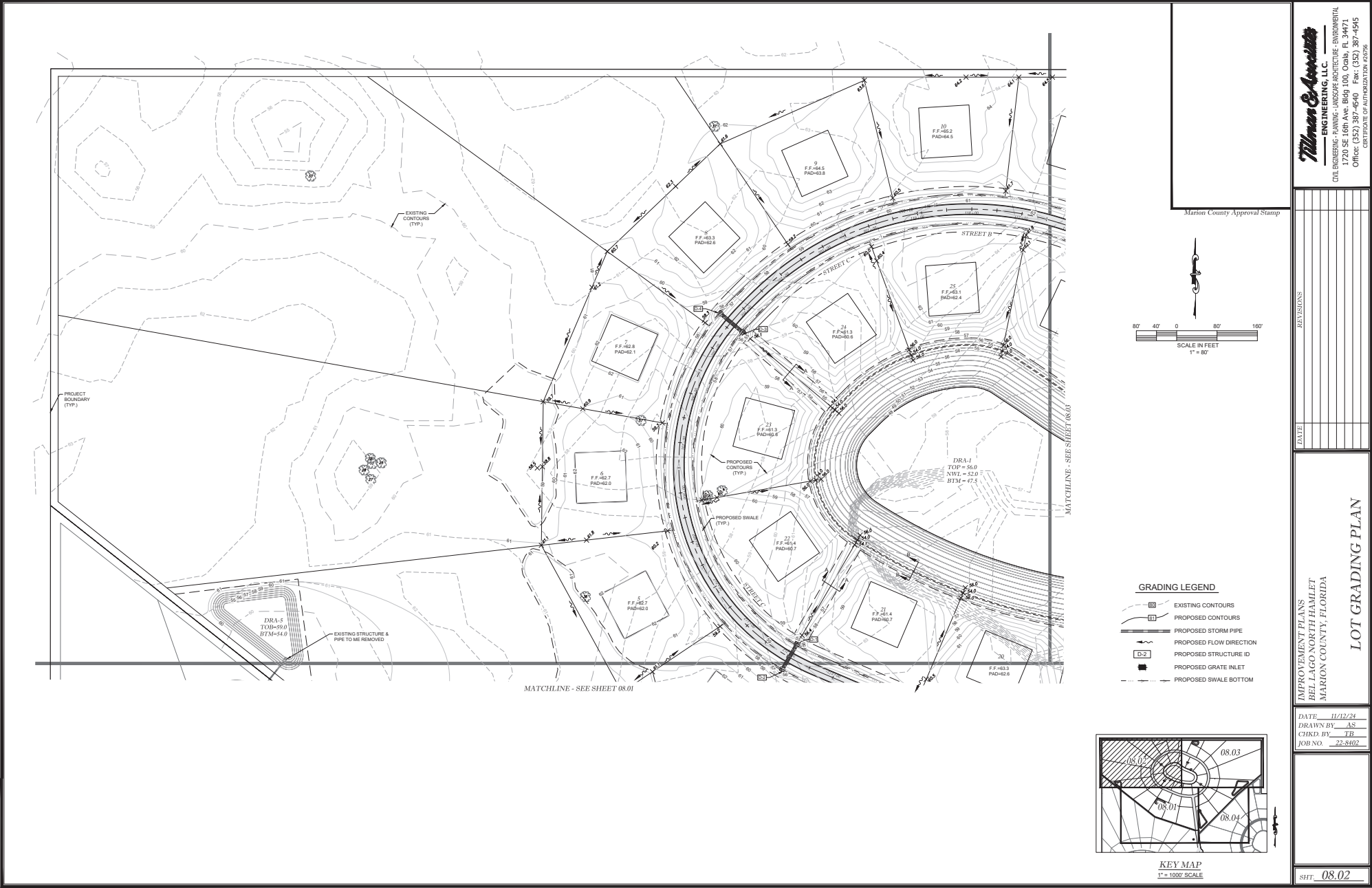
IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA

DATE 11/12/2023
DRAWN BY AS
CHKD BY TB
JOB NO. 22-8402

LOT GRADING PLAN

SHT. 08.01

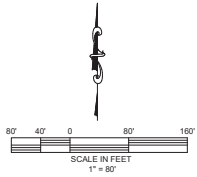
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



MATCHLINE - SEE SHEET 08.01

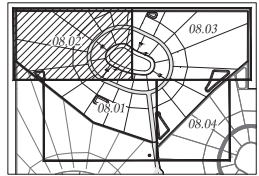
MATCHLINE - SEE SHEET 08.03

Marion County Approval Stamp



GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED STRUCTURE ID
- PROPOSED GRATE INLET
- PROPOSED SWALE BOTTOM



KEY MAP
1" = 1000' SCALE

Tilman & Associates
 INC. ENGINEERS, P.L.L.C.
 CIVIL ENGINEERING, PLANNING, SURVEYING, ARCHITECTURE, ENVIRONMENTAL
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 387-6540 Fax: (352) 387-4545
 CERTIFICATE OF AUTHORIZATION #12296

REVISIONS

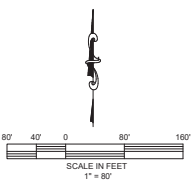
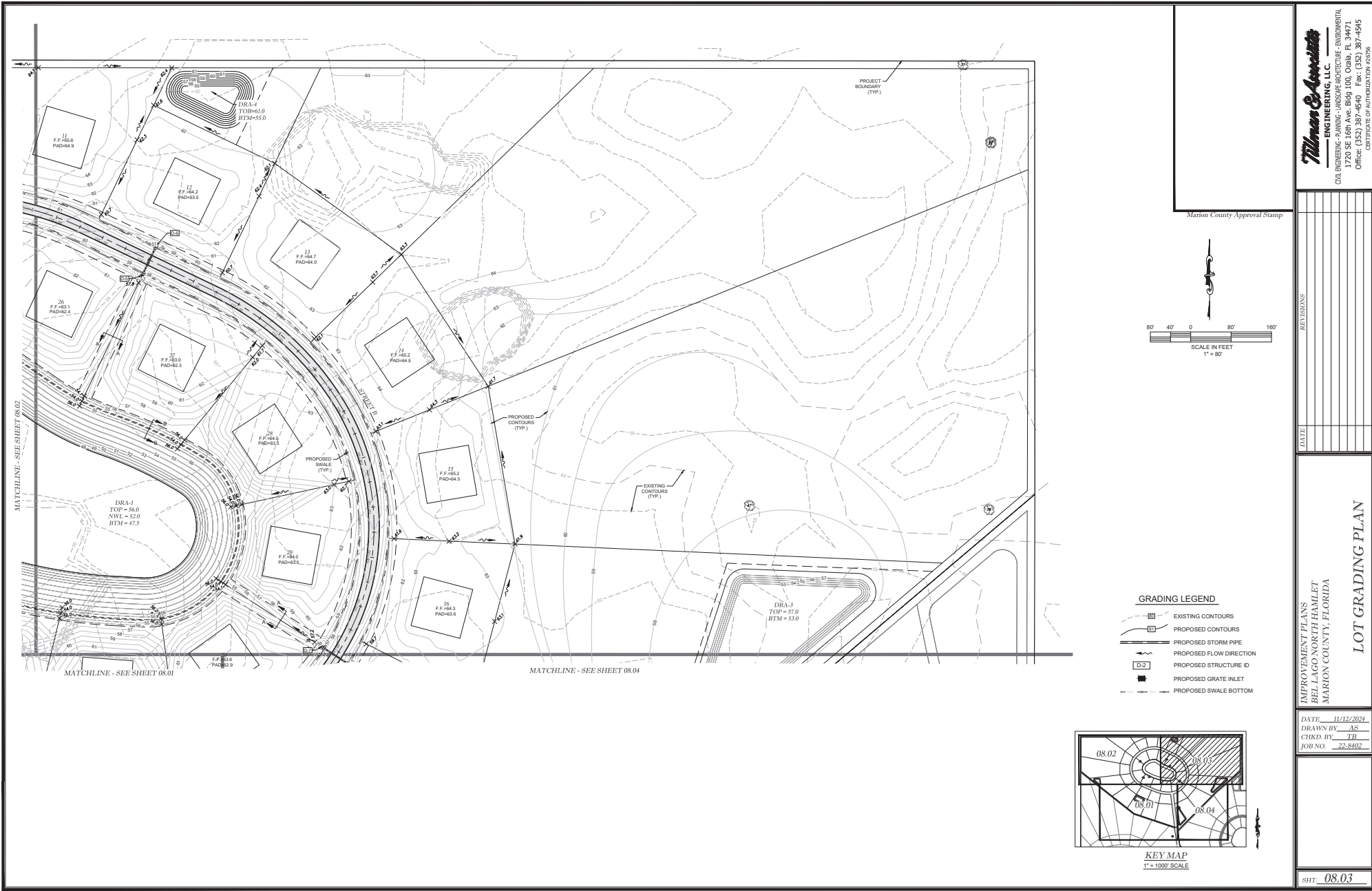
DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

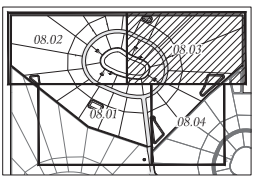
LOT GRADING PLAN

DATE: 11/12/24
 DRAWN BY: AS
 CHKD BY: TB
 JOB NO: 22-8402

SHEET 08.02



- GRADING LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - PROPOSED STORM PIPE
 - PROPOSED FLOW DIRECTION
 - PROPOSED STRUCTURE ID
 - PROPOSED GRATE INLET
 - PROPOSED SWALE BOTTOM



KEY MAP
1" = 100' SCALE

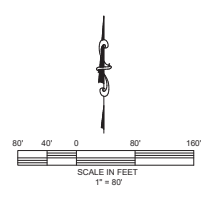
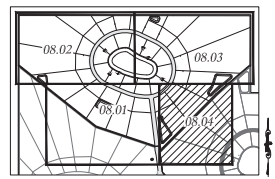
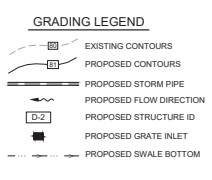
Tillman & Associates
 ENGINEERS & ARCHITECTS, LLC
 CIVIL ENGINEERING, PLANNING, LANDSCAPE ARCHITECTURE, ENVIRONMENTAL
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 387-6640 Fax: (352) 387-4645
 CERTIFICATE OF AUTHORIZATION #12296

REVISIONS	DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

DATE: 11/12/2024
 DRAWN BY: AS
 CHKD BY: TB
 JOB NO. 22-2402

SHT. 08.03



Marion County Approval Stamp

William & Associates
 ENGINEERS, ARCHITECTS & ENVIRONMENTAL
 CIVIL ENGINEERING, PLANNING, LANDSCAPE ARCHITECTURE, ENVIRONMENTAL
 17230 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 387-6540 Fax: (352) 387-4545
 CERTIFICATE OF AUTHORIZATION #R2296

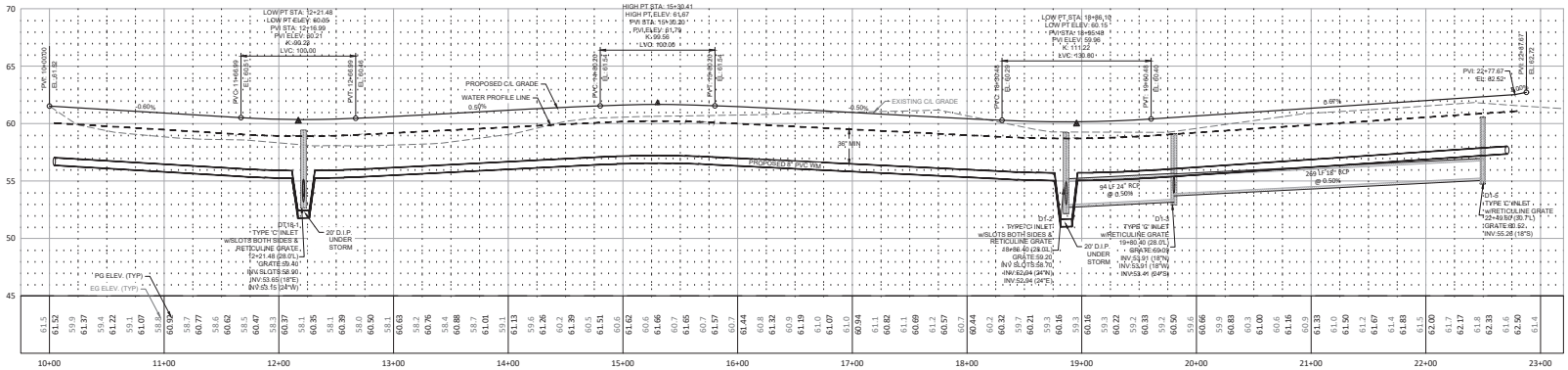
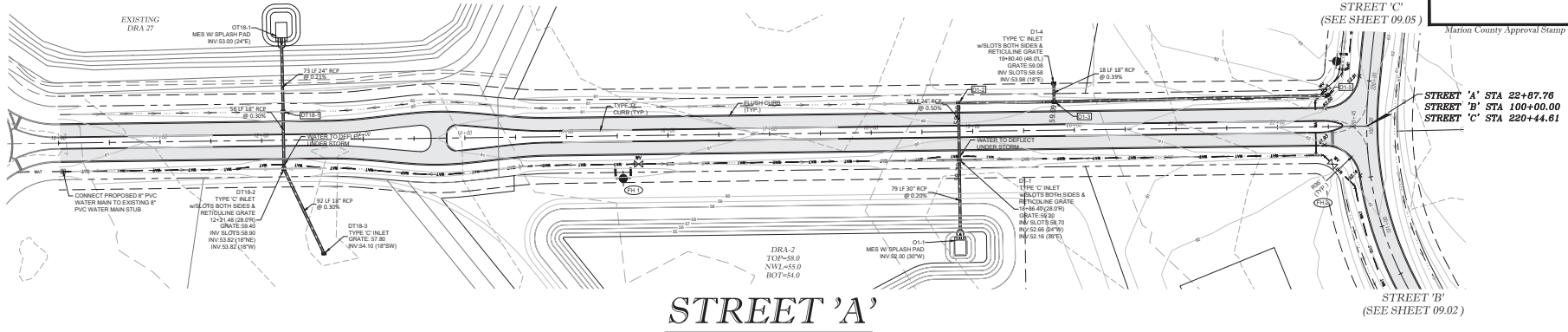
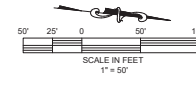
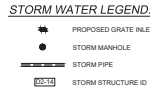
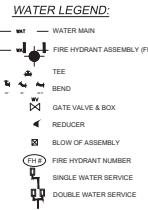
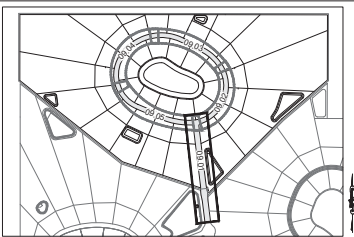
REVISIONS	DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

LOT GRADING PLAN

DATE: 11/12/2024
 DRAWN BY: AS
 CHKD BY: TB
 JOB NO: 22-8402

SHT. **08.04**



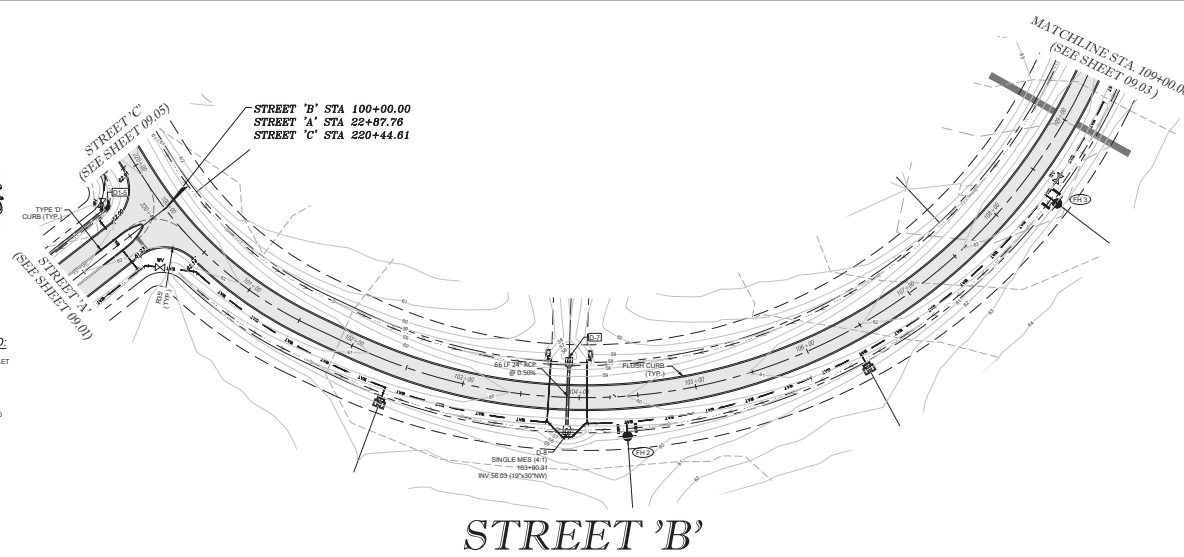
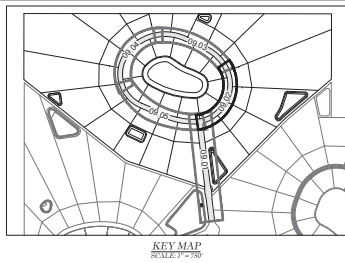
Timberline & Associates
 ENGINEERING, INC.
 CIVIL ENGINEERING, PLANNING, SURVEYING, ARCHITECTURE, ENVIRONMENTAL
 1720 SE 16th Ave, Box 100, Ocala, FL 34477
 Office: (352) 397-4540 Fax: (352) 397-4545
 CERTIFICATE OF AUTHORIZATION #6796

REVISIONS

NO.	DATE	DESCRIPTION

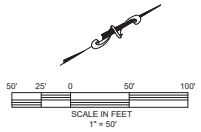
IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA
PLAN & PROFILE
STREET 'A'

DATE: 11/12/2023
 DRAWN BY: JLS
 CHECK BY: JLS
 JOB NO.: 22-8402
 SHEET: 09.01



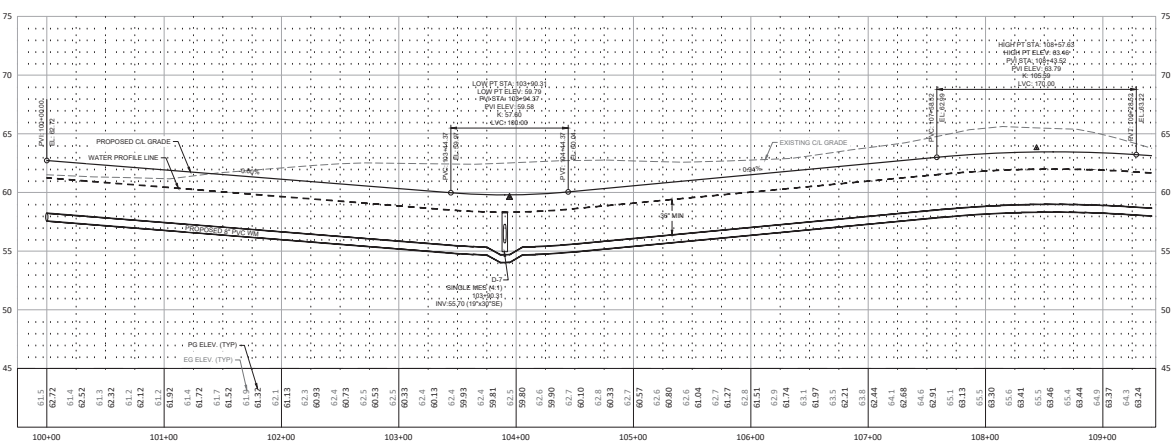
- WATER LEGEND:**
- W— WATER MAIN
 - F— FIRE HYDRANT ASSEMBLY (FHA)
 - T— TEE
 - B— BEND
 - G— GATE VALVE & BOX
 - R— REDUCER
 - B— BLOW OFF ASSEMBLY
 - (FH) FIRE HYDRANT NUMBER
 - S— SINGLE WATER SERVICE
 - D— DOUBLE WATER SERVICE

- STORM WATER LEGEND:**
- S— PROPOSED GRATE INLET
 - M— STORM MANHOLE
 - P— STORM PIPE
 - S— STORM STRUCTURE ID



Marion County Approval Stamp

HORZ. SCALE 1" = 50'
VERT. SCALE 1" = 6'



Thomas & Associates
ENGINEERING, LLC
CIVIL ENGINEERING & ARCHITECTURE - SURVEYING
1720 SE 16th Ave, Bldg 100, Ocala, FL 34477
Office: (352) 397-4540 Fax: (352) 397-4545
CERTIFICATE OF AUTHORIZATION #26796

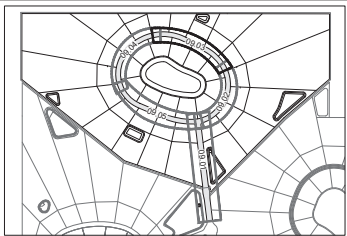
NO.	DATE	REVISIONS

IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA
**PLAN & PROFILE
STREET 'B'**

DATE: 11/12/2021
DRAWN BY: JS
CHECKED BY: JR
JOB NO. 22-8402

SHT. 09.02

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



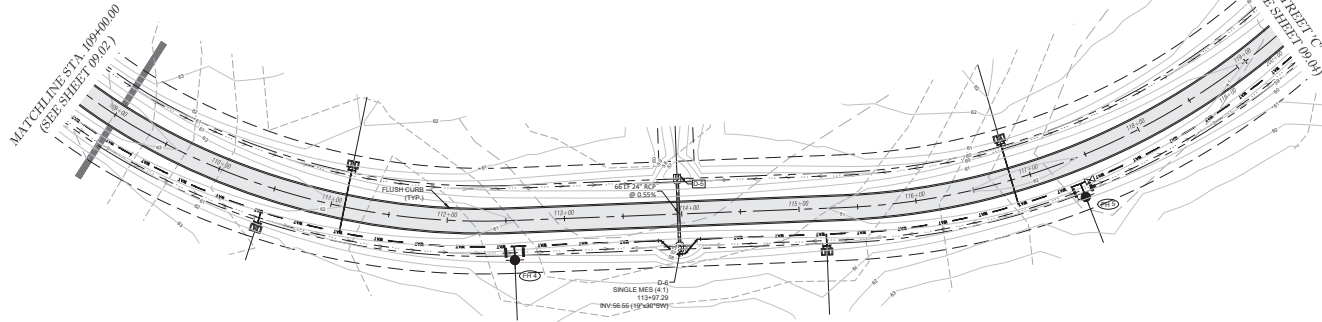
KEY MAP
SCALE: 1" = 75'

WATER LEGEND:

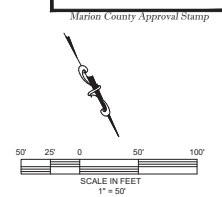
- W.M. — WATER MAIN
- ⊕ FIRE HYDRANT ASSEMBLY (FHA)
- ⊕ TEE
- ⊕ BEND
- ⊕ GATE VALVE & BOX
- ⊕ REDUCER
- ⊕ BLOW OFF ASSEMBLY
- ⊕ FIRE HYDRANT NUMBER
- ⊕ SINGLE WATER SERVICE
- ⊕ DOUBLE WATER SERVICE

STORM WATER LEGEND:

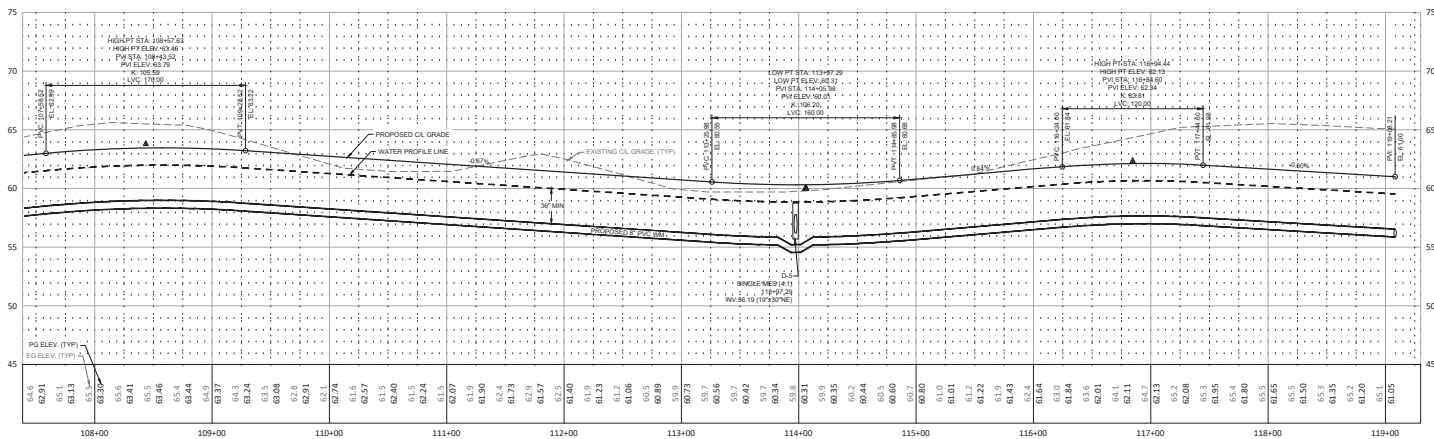
- ⊕ PROPOSED GRATE INLET
- ⊕ STORM MANHOLE
- STORM PIPE
- ⊕ STORM STRUCTURE ID



STREET 'B'



Marion County Approval Stamp



HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 5'

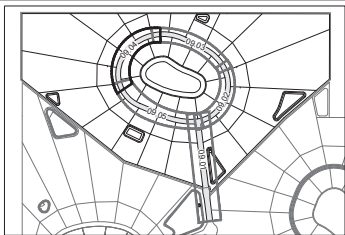
William & Associates
 ENGINEERING, LLC
 CIVIL ENGINEERING, SURVEYING, ARCHITECTURE, ENVIRONMENTAL
 1720 SE 16th Ave, Box 100, Ocala, FL 34471
 Office: (352) 397-4540 Fax: (352) 397-4545
 CERTIFICATE OF AUTHORIZATION #2796

DATE	REVISIONS

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA
STREET 'B'

DATE: 7/31/2021
 DRAWN BY: AS
 CHECK BY: JB
 JOB NO. 22-8402

SHT. 09.03



KEY MAP
SCALE: 1" = 75'

MATCHLINE STREET 'B'
(SEE SHEET 09.03)

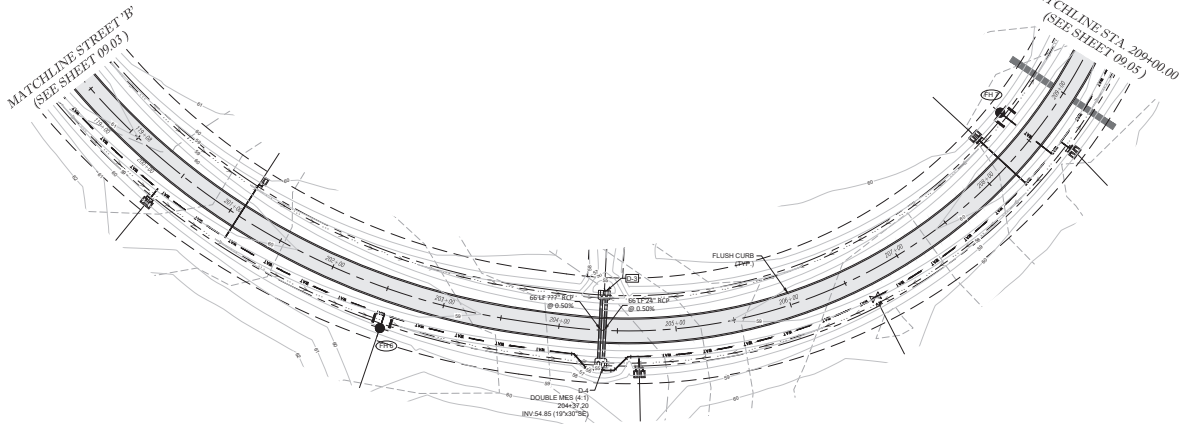
MATCHLINE STA. 209+00.00
(SEE SHEET 09.05)

WATER LEGEND:

- WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BEND
- GATE VALVE & BOX
- REDUCER
- BLOW OFF ASSEMBLY
- FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE

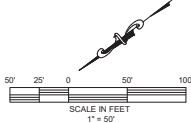
STORM WATER LEGEND:

- PROPOSED GRATE INLET
- STORM MANHOLE
- STORM PIPE
- STORM STRUCTURE ID

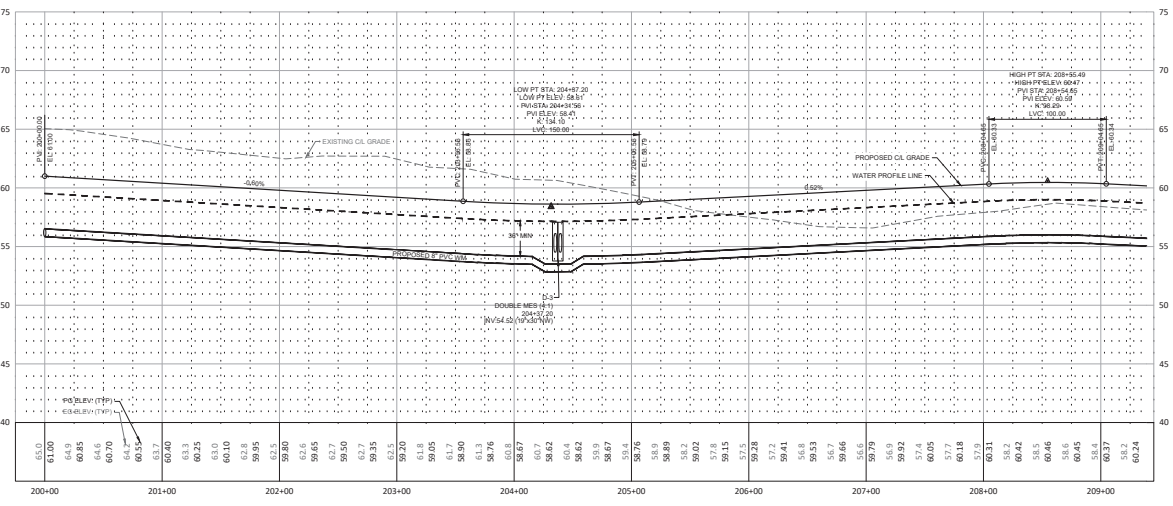


STREET 'C'

Marion County Approval Stamp



HORZ. SCALE 1" = 50'
VERT. SCALE 1" = 5'



Timber & Associates
ENGINEERING, LLC
CIVIL ENGINEERING & ARCHITECTURE - SURVEYING
1720 SE 16th Ave, Box 100, Ocala, FL 34475
Office: (352) 397-4540 Fax: (352) 397-4545
CERTIFICATE OF AUTHORIZATION # 26796

REVISIONS

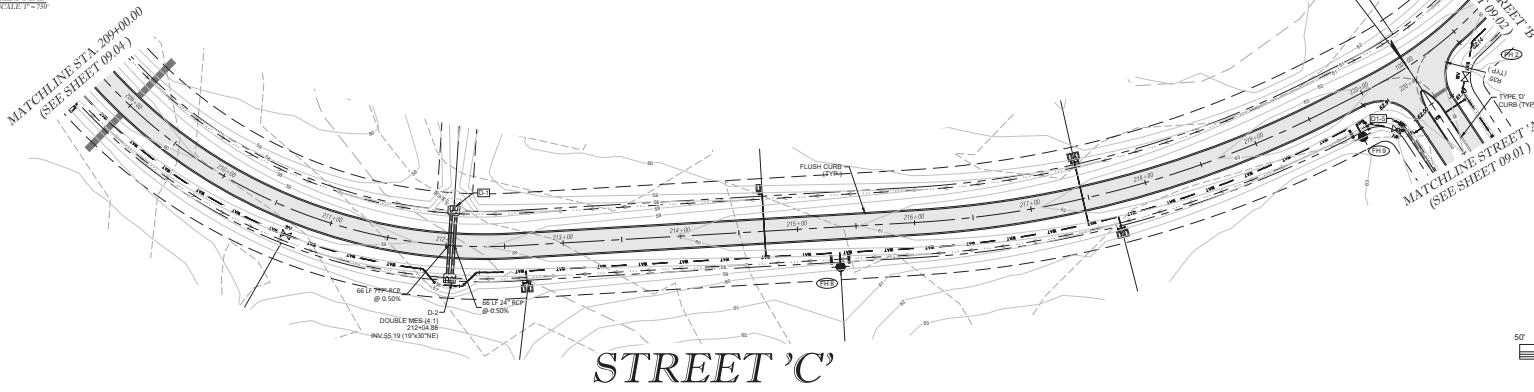
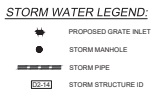
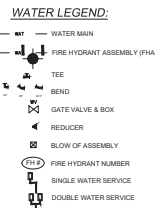
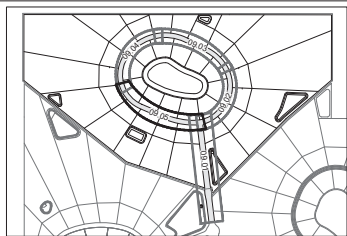
NO.	DATE	DESCRIPTION

IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA
STREET 'C'

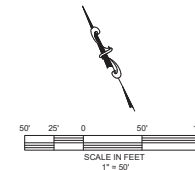
DATE: 7/31/2021
DRAWN BY: JS
CHECKED BY: JBR
JOB NO. 22-8402

SHT. 09.04

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



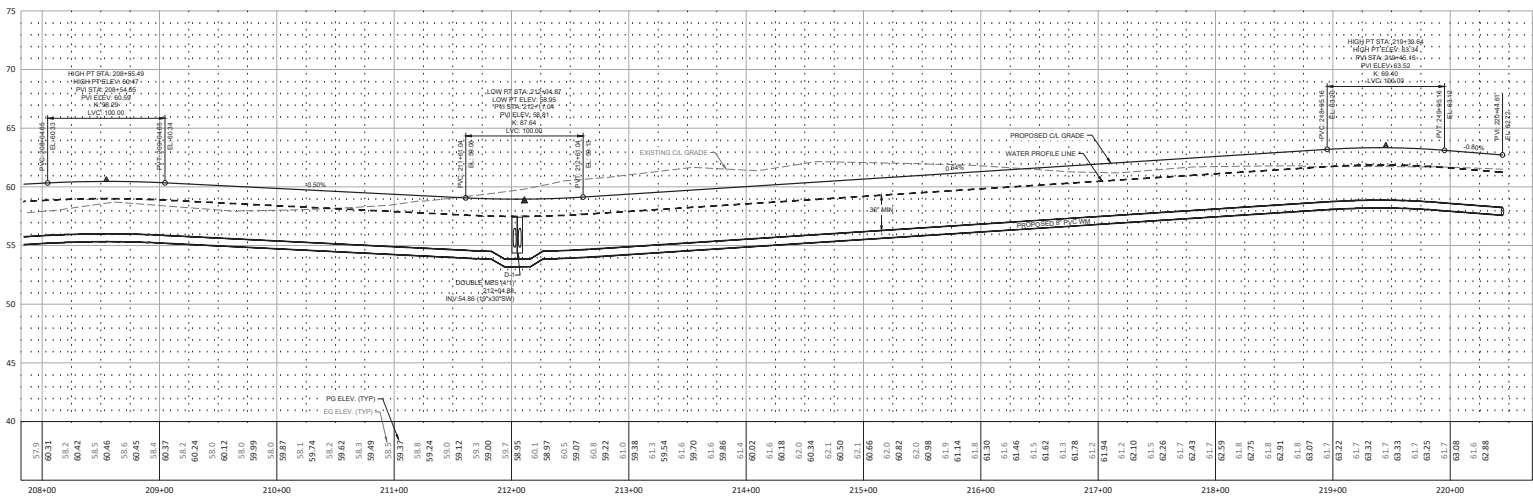
Marion County Approval Stamp



William & Associates
 ENGINEERING, LLC
 CIVIL ENGINEERING, LAND SURVEYING, ARCHITECTURE, SURVEILLANCE
 1720 SE 16th Ave, Box 100, Ocala, FL 34477
 Office: (352) 397-4540 Fax: (352) 397-4545
 CERTIFICATE OF AUTHORIZATION #26796

DATE	REVISIONS

HORIZ. SCALE 1" = 50'
 VERT. SCALE 1" = 5'

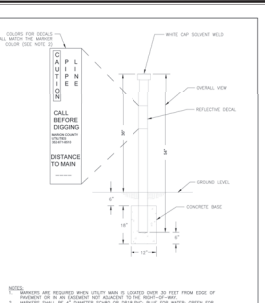
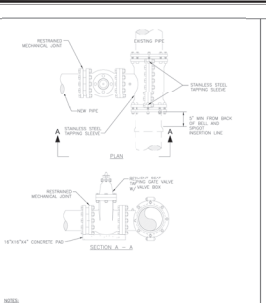
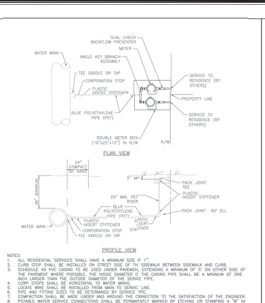
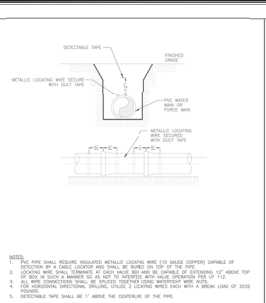
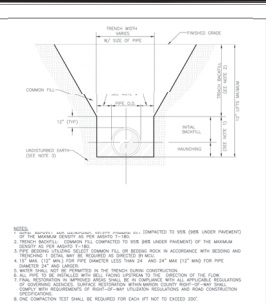
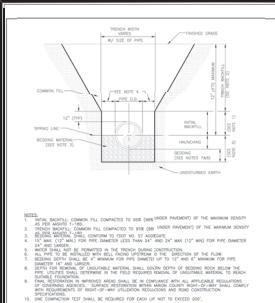


IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA
PLAN & PROFILE
STREET 'C'

DATE: 7/31/2021
 DRAWN BY: AS
 CHECKED BY: JB
 JOB NO.: 22-8402

SHT. 09.05

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



7.3.2 MARION COUNTY BEDDING AND TRENCHING 1

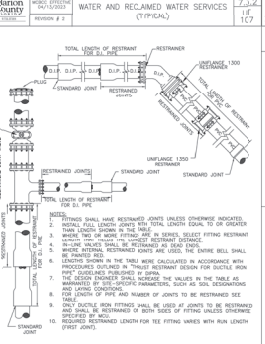
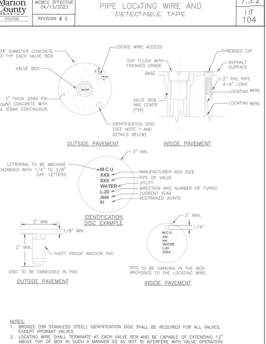
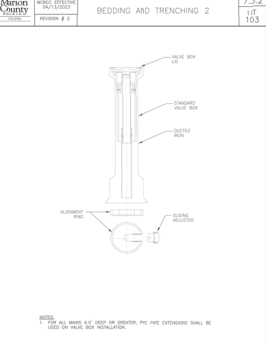
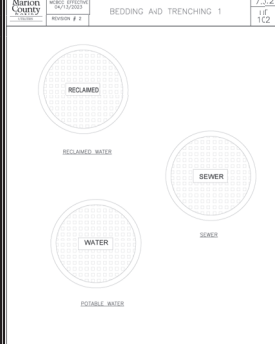
7.3.2 MARION COUNTY BEDDING AND TRENCHING 2

7.3.2 MARION COUNTY PIPE LOCATING WIRE AND DETECTABLE TAPE

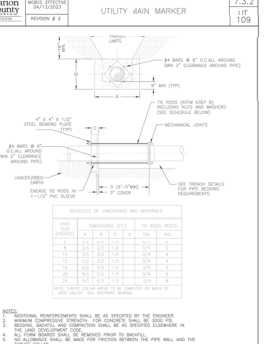
7.3.2 MARION COUNTY WATER AND RECLAIMED WATER SERVICES

7.3.2 MARION COUNTY TAPPING SLEEVE AND GATE VALVE

7.3.2 MARION COUNTY UTILITY MAIN MARKER



MINIMUM RESTRAINED LENGTHS (FT)		HORIZONTAL	
FOR EACH SIDE OF FITTING AND VALVE		FOR EACH SIDE OF FITTING AND VALVE	
PIPE SIZE	RESTRAINED LENGTH	RESTRAINED LENGTH	RESTRAINED LENGTH
1/2"	10	10	10
3/4"	10	10	10
1"	10	10	10
1 1/4"	10	10	10
1 1/2"	10	10	10
1 3/4"	10	10	10
2"	10	10	10
2 1/2"	10	10	10
3"	10	10	10
3 1/2"	10	10	10
4"	10	10	10
4 1/2"	10	10	10
5"	10	10	10
5 1/2"	10	10	10
6"	10	10	10
6 1/2"	10	10	10
7"	10	10	10
7 1/2"	10	10	10
8"	10	10	10
8 1/2"	10	10	10
9"	10	10	10
9 1/2"	10	10	10
10"	10	10	10
10 1/2"	10	10	10
11"	10	10	10
11 1/2"	10	10	10
12"	10	10	10
12 1/2"	10	10	10
13"	10	10	10
13 1/2"	10	10	10
14"	10	10	10
14 1/2"	10	10	10
15"	10	10	10
15 1/2"	10	10	10
16"	10	10	10
16 1/2"	10	10	10
17"	10	10	10
17 1/2"	10	10	10
18"	10	10	10
18 1/2"	10	10	10
19"	10	10	10
19 1/2"	10	10	10
20"	10	10	10
20 1/2"	10	10	10
21"	10	10	10
21 1/2"	10	10	10
22"	10	10	10
22 1/2"	10	10	10
23"	10	10	10
23 1/2"	10	10	10
24"	10	10	10
24 1/2"	10	10	10
25"	10	10	10
25 1/2"	10	10	10
26"	10	10	10
26 1/2"	10	10	10
27"	10	10	10
27 1/2"	10	10	10
28"	10	10	10
28 1/2"	10	10	10
29"	10	10	10
29 1/2"	10	10	10
30"	10	10	10



7.3.2 MARION COUNTY TYPICAL VALVE BOX COVER

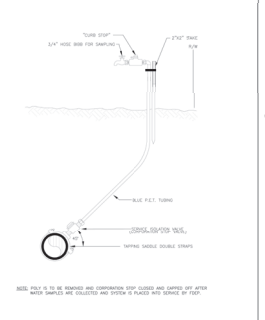
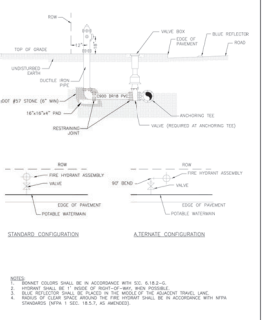
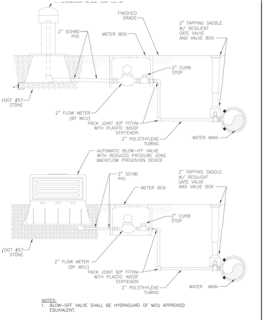
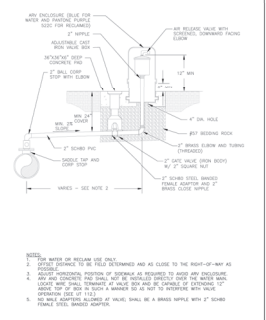
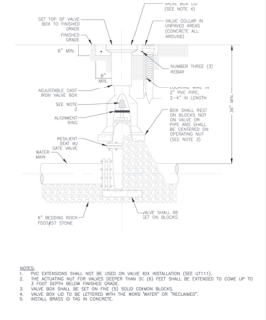
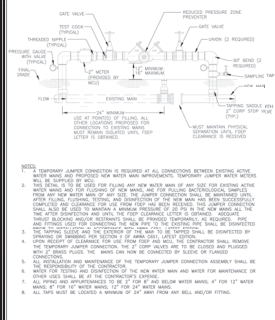
7.3.2 MARION COUNTY SEALED VALVE BOX, ADJUSTABLE

7.3.2 MARION COUNTY VALVE BOX PAD

7.3.2 MARION COUNTY RESTRAINED PIPE TABLE

7.3.2 MARION COUNTY RESTRAINED PIPE TABLE

7.3.2 MARION COUNTY THRUST COLLAR WATER MAINS



7.3.2 MARION COUNTY TEMPORARY JUMPER CONNECTION

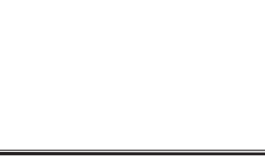
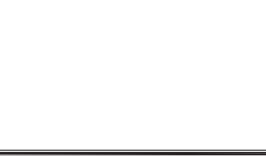
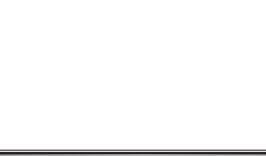
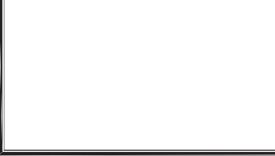
7.3.2 MARION COUNTY GATE VALVE WATER AND RECLAIMED MAINS

7.3.2 MARION COUNTY ABOVEGROUND OFFSET WATER OR RECLAIM AIR RELEASE VALVE

7.3.2 MARION COUNTY AUTOMATIC BLOW OFF VALVE WATER MAIN

7.3.2 MARION COUNTY FIRE HYDRANT ASSEMBLY

7.3.2 MARION COUNTY TEMPORARY SAMPLE POINT



Tilman & Associates
 ENGINEERING, LLC
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
 1720 SE 10th Ave., Bogaloo, Oklawaha, FL 32971
 Phone: (352) 387-7455 Fax: (352) 387-7456
 E-MAIL: info@tilmanandassociates.com

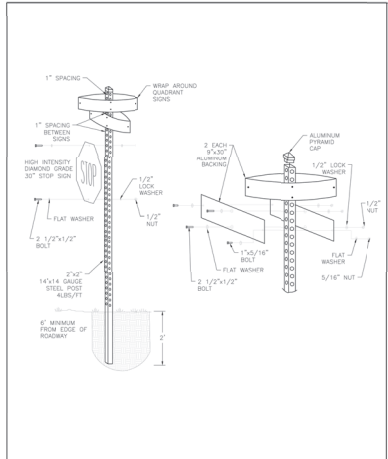
Marion County Approval Stamp

REVISIONS	
DATE	

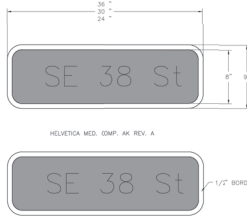
IMPROVEMENT PLANS
 BELLAGO/NORTH HAMLET
 MARION COUNTY, FLORIDA
POTABLE WATER
DISTRIBUTION DETAILS

DATE: 11/12/2024
 DRAWN BY: AS
 CHKD. BY: TB
 JOB NO: 22-8402

SHT: 10.01

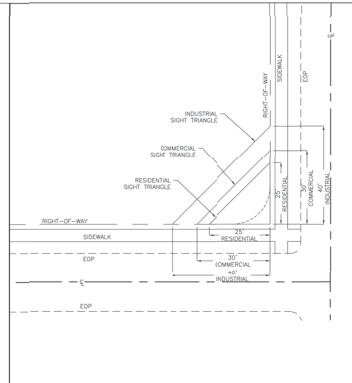


GREEN LETTERS ON A WHITE BACKGROUND - PRIVATE OR NON-COUNTY MAINTAINED
 WHITE LETTERS ON A GREEN BACKGROUND - PUBLIC OR COUNTY MAINTAINED



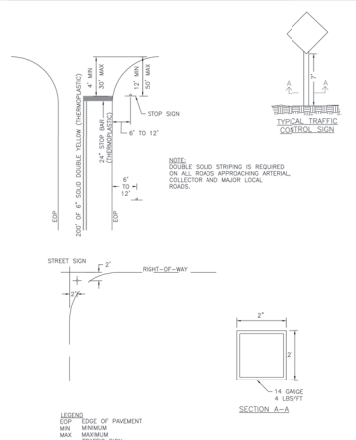
HELVETICA MED. COMP. AK REV. A

HIGH-INTENSITY BACKGROUND WITH TRANSPARENT GREEN FILM OVERLAY. DIE-CUT LETTERS



LEGEND
 EDP EDGE OF PAVEMENT
 S SIDEWALK
 R RIGHT-OF-WAY

NOTE:
 NO TRAIL WALL, MESH, VINYL STRUCTURE OR OTHER OBSTRUCTION TO VISION BETWEEN A HEIGHT OF 3RD AND ONE-HALF FEET AND EIGHT FEET ABOVE THE CENTER LINE GRADING OF INTERSECTING STREETS SHALL BE ERECTED, PLACED OR MAINTAINED WITHIN THE TRIANGLE SHOWN.



LEGEND
 EDP EDGE OF PAVEMENT
 S SIDEWALK
 R RIGHT-OF-WAY
 T TRAFFIC CONTROL SIGN

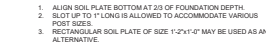
MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA
COMBINED STREET NAME & STOP SIGN INSTALLATION

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA
STREET SIGN

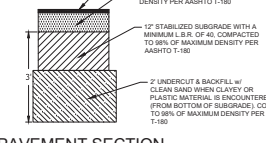
MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA
SIGHT TRIANGLE

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA
INTERSECTION SIGN AND STRIPING DETAIL

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA
ALUMINUM SOIL PLATE DETAIL

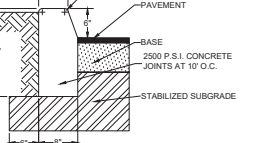


- NOTES:
- ALUMINUM SOIL PLATE BOTTOM AT 20% OF FOUNDATION DEPTH
 - SLOT UP TO 1" LONG IS ALLOWED TO ACCOMMODATE VARIOUS POST SIZES
 - RECTANGULAR SOIL PLATE OF SIZE 1-2"x4" MAY BE USED AS AN ALTERNATIVE

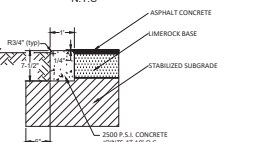


PAVEMENT SECTION
 N.T.S.

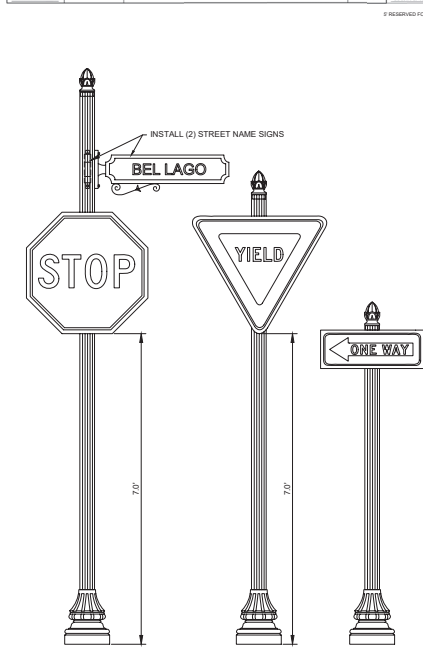
- NOTES: CONTRACTOR TO INCORPORATE RECOMMENDATIONS FROM GEOTECHNICAL REPORT.



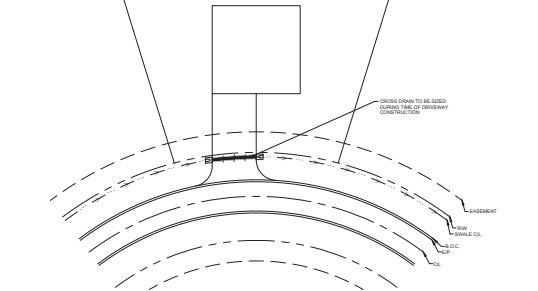
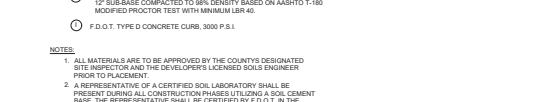
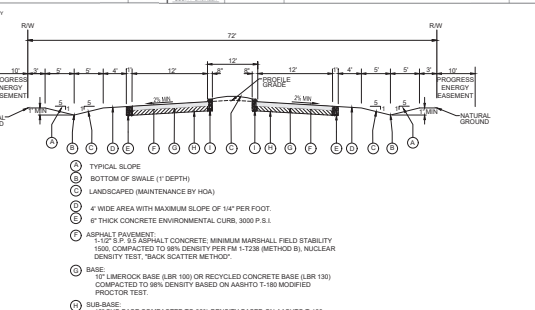
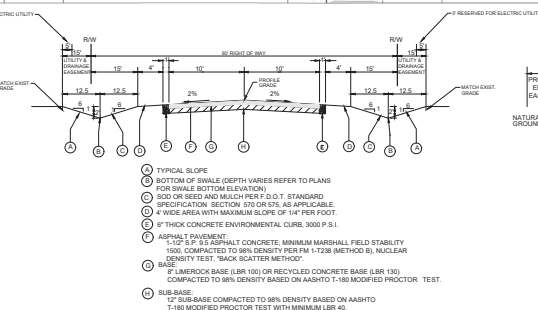
TYPE D CURB
 N.T.S.



FLUSH CURB
 N.T.S.



DECORATIVE SIGN DETAILS
 NOT TO SCALE



DRIVEWAY CROSS DRAIN DETAIL
 NOT TO SCALE

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA

MARION COUNTY ENGINEERING
 MCRS EFFECTIVE 10/12/2013
 REVISION # NA

REVISIONS

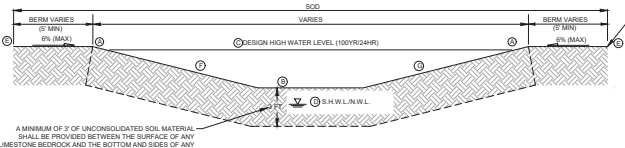
NO.	DATE	DESCRIPTION

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

ROADWAY & PAVEMENT DETAILS

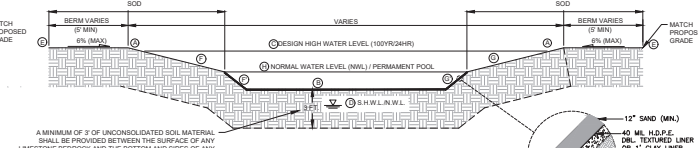
DATE: 11/12/2024
 DRAWN BY: JIS
 CHECKED BY: FR
 JOB NO.: 22-5402

DATE: 11.01



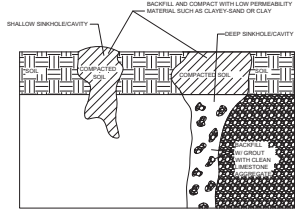
POND	T.O.B.(FT)	BOTTOM(FT)	DHW(LFT) 100(YR/24HR)	SHWL(FT)	SIDE SLOPE	SIDE SLOPE
DR-3	57.0	53.0	55.97	52.80	MATCH PROPOSED GRADE	4:1
DR-4	61.0	55.0	58.89	52.80	MATCH PROPOSED GRADE	4:1
DR-5	59.0	54.0	56.90	52.80	MATCH PROPOSED GRADE	4:1
DR-6	61.0	58.0	59.26	55.00	MATCH PROPOSED GRADE	3:1
SOUTH LOW	61.0	59.0	60.07	49.50	MATCH PROPOSED GRADE	NATURAL GROUND
NORTH LOW	60.0	59.0	59.48	52.50	MATCH PROPOSED GRADE	NATURAL GROUND

SOIL ALL SLOPES AND BOTTOM WITH FLORIDA FRIENDLY NONLAUCK GROWN SOD
DRY POND CROSS-SECTIONS
N.T.S.



POND	T.O.B.(FT)	NWL(FT)	BOTTOM(FT)	DHW(LFT) 100(YR/24HR)	SHWL(FT)	SIDE SLOPE	SIDE SLOPE	SIDE SLOPE	SIDE SLOPE
DR-1	58.0	52.0	47.5	54.40	50.40	MATCH PROPOSED GRADE	10:1	5:1	10:1
DR-2	58.0	55.0	54.0	57.13	51.90	MATCH PROPOSED GRADE	4:1	4:1	4:1

SOIL ALL SLOPES AND BOTTOM WITH FLORIDA FRIENDLY NONLAUCK GROWN SOD
WET POND CROSS-SECTIONS
N.T.S.



NOTES
SECTION VIEW

IN THE EVENT THAT ANY KARST FEATURES SUCH AS SNINKHOLES, SOLUTION CAVERNS, CHIMNEYS, ETC. ARE DISCOVERED DURING ROUTINE INSPECTIONS OF THE STORMWATER BASIN, THE FOLLOWING REMEDIATION PROCEDURE SHALL BE PERFORMED:

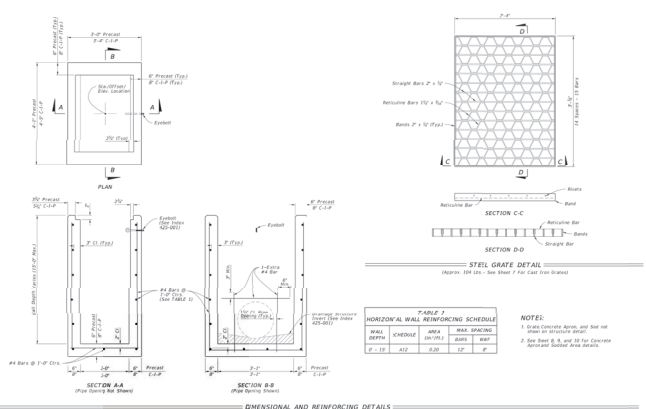
SHALLOW REPAIR (SEE DETAIL):
IF THE COLLAPSE IS SHALLOW (1'-0" DEEP) AND THE Voids IN THE LIMESTONE ARE SHALLOW, THEN THE SNINKHOLE SHALL BE REPAIRED BY BACKFILLING WITH A LOWER PERMEABILITY MATERIAL, SUCH AS CLAYEY SAND OR CLAY. THE MATERIAL SHOULD BE COMPACTED AND THE REPAIR SHALL BE SLIGHTLY ABOVE THE ORIGINAL BOTTOM IN ORDER TO CREATE A SMALL MOUND TO ACCOUNT FOR SETTLING.

DEEP REPAIR (SEE DETAIL):
IF THE COLLAPSE IS DEEP, THEN THE REPAIR SHALL BE MORE PERMANENT. THE COLLAPSE SHALL BE ENLARGED TO THE LIMESTONE BED ROCK. THE Voids IN THE BED ROCK SHALL BE FILLLED WITH CLEAN SPOD. A LOW PERMEABILITY MATERIAL SHALL BE PLACED OVER THE CONCRETE PLS. THE MATERIAL SHALL BE COMPACTED AND BROUGHT TO EXISTING BASIN BOTTOM.

NOTIFICATION:
THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT (SRWD) SHALL BE NOTIFIED OF ANY SNINKHOLE DEVELOPMENT WITHIN 48 HOURS OF DISCOVERY AND THE PROPOSED METHOD BY WHICH THE SNINKHOLE WILL BE REPAIRED SHALL BE SUBMITTED TO THE SRWD FOR APPROVAL. WITHIN 30 DAYS, THE SRWD WILL THEN NOTIFY THE RESPONSIBLE PARTY TO THE ACCEPTANCE, DENIAL OR NEED FOR MODIFICATION OF THE REPAIR METHOD.

Marion County Approval Stamp

William & Associates
ENGINEERING, LLC
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave, Bldg. 100, Ocala, FL 34471
Office: (352) 367-0540 Fax: (352) 367-4545
CERTIFICATE OF AUTHORIZATION #20796



GENERAL NOTES:

1. Work in 10' increments unless otherwise noted.
2. Charcoal or expanded metal can be used as a substitute for steel grate.
3. All materials to be used shall meet or exceed the requirements of the approved specification for use in the project.
4. See Section 05200 - Structural Steel for details.
5. Reinforcement shall be placed in accordance with the approved specification for use in the project.
6. Reinforcement shall be placed in accordance with the approved specification for use in the project.
7. Reinforcement shall be placed in accordance with the approved specification for use in the project.
8. Reinforcement shall be placed in accordance with the approved specification for use in the project.
9. Reinforcement shall be placed in accordance with the approved specification for use in the project.
10. Reinforcement shall be placed in accordance with the approved specification for use in the project.

TABLE OF CONTENTS
1. General Notes and Details
2. Type C - Dimensional Reinforcing and Steel Grate Details
3. Type D - Dimensional Reinforcing and Steel Grate Details
4. Type E - Dimensional Reinforcing and Steel Grate Details
5. Type H - 18" x 18" - Dimensional Reinforcing and Steel Grate Details
6. Type H - 24" x 24" - Dimensional Reinforcing and Steel Grate Details
7. Cast Iron Gate Details
8. Reinforcing Steel with Bar Details
9. Reinforcing Steel without Bar Details
10. Reinforcing Steel with Bar Details
11. Case 1 - 20" Round Franchise Hole in Existing Inlet
12. Case 2 - 24" Round Franchise Hole in Existing Inlet
13. Case 3 - 36" Round Franchise Hole in Existing Inlet
14. Alternate A - 20" Round Franchise Hole in Existing Inlet

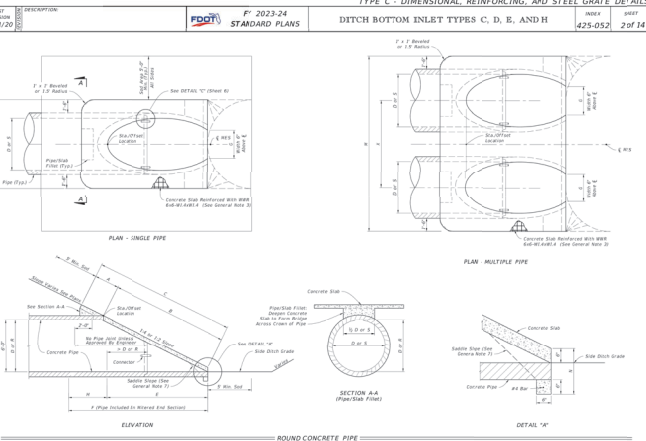
SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL
N.T.S.



TYPICAL DRAINAGE SWALE SECTION A-A
N.T.S.



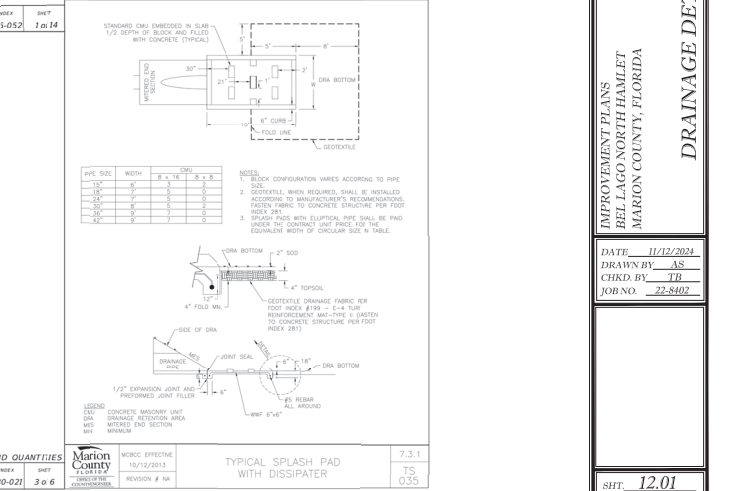
TYPICAL DRAINAGE SWALE SECTION B-B
N.T.S.



ROUND CONCRETE PIPE
(Eligible Pipe Similar)
NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.

TABLE 1 SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES	Single Pipe (Typical)		Multiple Pipe (Typical)	
	Depth (ft)	Quantity	Depth (ft)	Quantity
24"	1	1	2	2
30"	1	1	2	2
36"	1	1	2	2
42"	1	1	2	2
48"	1	1	2	2
54"	1	1	2	2
60"	1	1	2	2
66"	1	1	2	2
72"	1	1	2	2
78"	1	1	2	2
84"	1	1	2	2
90"	1	1	2	2
96"	1	1	2	2
102"	1	1	2	2
108"	1	1	2	2
114"	1	1	2	2
120"	1	1	2	2

SINGLE AND MULTIPLE CONCRETE PIPE
NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.



CONCRETE PIPE DIMENSIONS AND QUANTITIES
TYPICAL SPLASH PAD WITH DISSIPATOR

REVISIONS

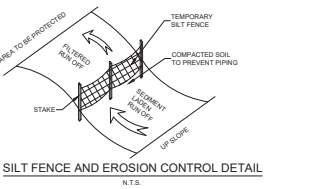
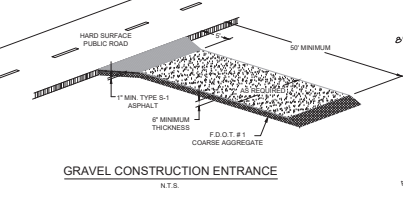
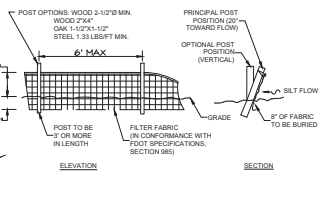
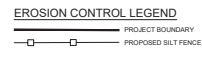
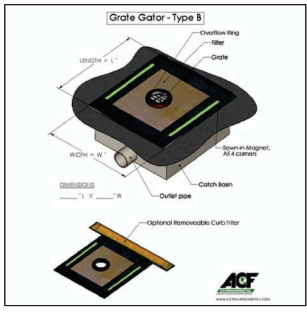
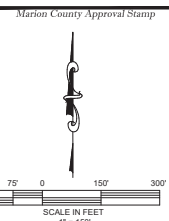
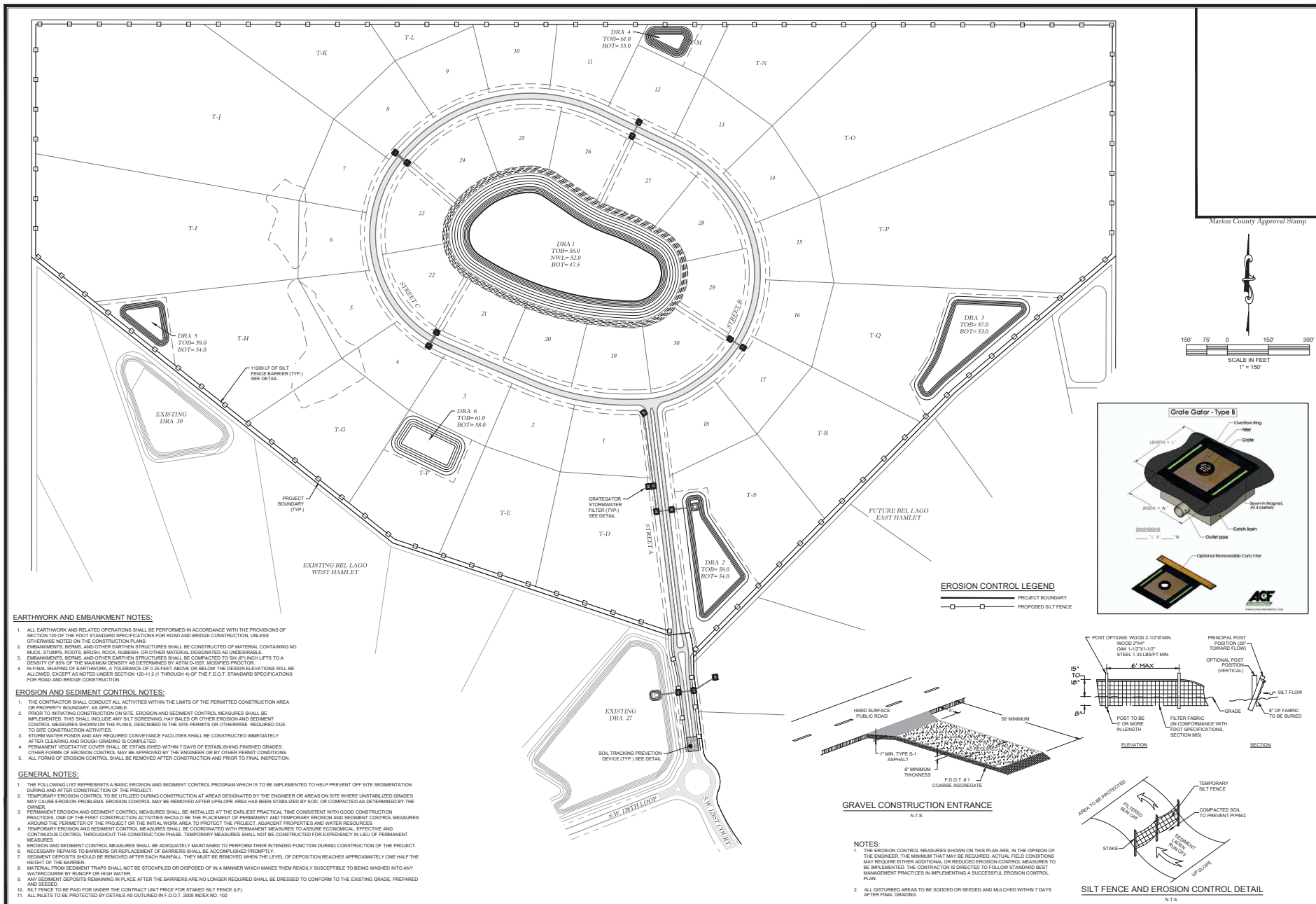
DATE	

IMPROVEMENT PLANS
BELL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA

DATE: 11/12/2024
DRAWN BY: AS
CHECK BY: JTB
JOB NO: 22-8402

SHT: 12.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



- EARTHWORK AND EMBANKMENT NOTES:**
1. ALL EARTHWORK AND RELATED OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 120 OF THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS.
 2. EMBANKMENTS, BERMS, AND OTHER EARTHEN STRUCTURES SHALL BE CONSTRUCTED OF MATERIAL CONTAINING NO MUCK, STUMPS, ROOTS, BRUSH, ROCK, RUBBER, OR OTHER MATERIAL DESIGNATED AS UNDESIRABLE.
 3. EMBANKMENTS, BERMS, AND OTHER EARTHEN STRUCTURES SHALL BE COMPACTED TO SIX (6) INCH LFBS TO A DENSITY OF 90% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR.
 4. IN FINAL SHAPING OF EARTHWORK, A TOLERANCE OF 2.25 FEET ABOVE OR BELOW THE DESIGN ELEVATIONS WILL BE ALLOWED, EXCEPT AS NOTED UNDER SECTION 120.11.1.2 THROUGH 4.1 OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL NOTES:**
1. THE CONTRACTOR SHALL CONDUCT ALL ACTIVITIES WITHIN THE LIMITS OF THE PERMITTED CONSTRUCTION AREA OR PROPERTY BOUNDARY, AS APPLICABLE.
 2. PRIOR TO INITIATING CONSTRUCTION ON SITE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED. THIS SHALL INCLUDE ANY SILT SCREENING, WAY SALES OR OTHER EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS, DESCRIBED IN THE SITE PERMITS OR OTHERWISE REQUIRED DUE TO SITE CONSTRUCTION ACTIVITIES.
 3. STORM WATER PONDS AND ANY REQUIRED CONVEYANCE FACILITIES SHALL BE CONSTRUCTED IMMEDIATELY AFTER CLEARING AND ROUGH GRADING IS COMPLETED.
 4. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED WITHIN 7 DAYS OF ESTABLISHING FINISHED GRADES. OTHER FORMS OF EROSION CONTROL MAY BE APPROVED BY THE ENGINEER OR BY OTHER PERMIT CONDITIONS.
 5. ALL FORMS OF EROSION CONTROL SHALL BE REMOVED AFTER CONSTRUCTION AND PRIOR TO FINAL INSPECTION.
- GENERAL NOTES:**
1. THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.
 2. TEMPORARY EROSION CONTROL MEASURES TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY THE ENGINEER OR AREAS ON SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL MAY BE REMOVED AFTER UPLSLOPE AREA HAS BEEN STABILIZED BY SOIL, OR COMPACTED AS DETERMINED BY THE ENGINEER.
 3. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT ADJACENT PROPERTIES AND WATER RESOURCES.
 4. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPEDIENCY IN LIEU OF PERMANENT MEASURES.
 5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.
 6. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
 7. NECESSARY REPAIRS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
 8. SEDIMENT TRAPS SHOULD BE STOOPOLED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATER-COURSE BY RUNOFF OR HIGH WATER.
 9. NECESSARY REPAIRS REMOVED IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
 10. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAINED SILT FENCE (L.F.).
 11. ALL INLETS TO BE PROTECTED BY DETAILS AS OUTLINED IN F.D.O.T. 2008 INDEX NO. 102.

Marion County Approval Stamp

DATE

REVISIONS

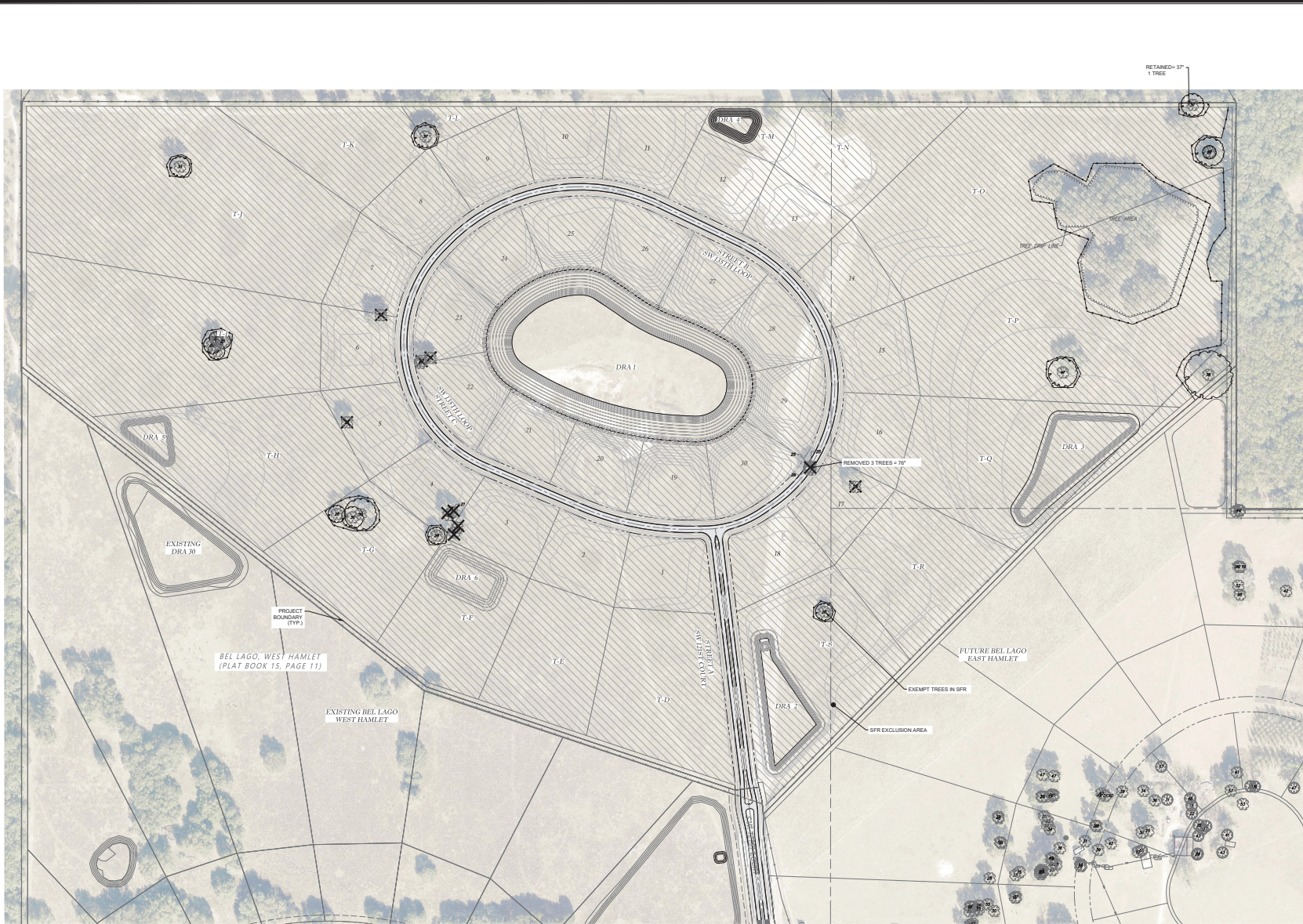
DATE

DATE: 11/12/2023
 DRAWN BY: AS
 CHKD. BY: TB
 JOB NO.: 22-8402





IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

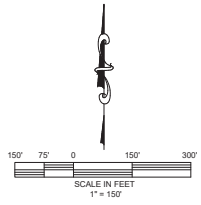
EROSION CONTROL PLAN

SHT. 13.01



Marion County Approval Stamp

- KEY**
-  RESIDENTIAL EXCLUSION AREA
 -  EXISTING TREES TO REMAIN
 -  EXISTING TREES TO REMOVE
 -  TREE PROTECTION FENCE



Miller & Associates
ENGINEERS, LLC
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
 1725 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 367-4540 Fax: (352) 367-4645
 CERTIFICATE OF AUTHORIZATION #26796

REVISIONS

NO.	DATE	DESCRIPTION

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

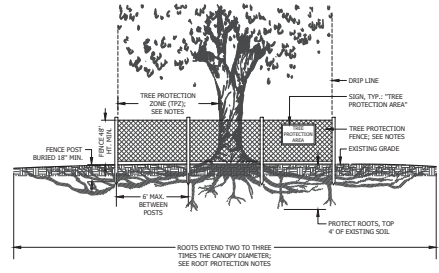
TREE PRESERVATION

DATE: 11/12/2024
 DRAWN BY: JA
 CHECKED BY: TR
 JOB NO.: 22-5402

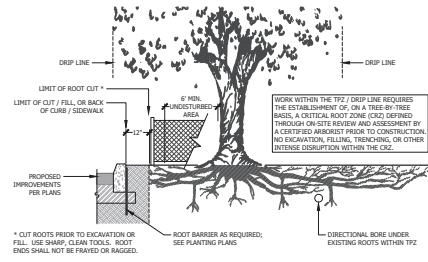
SHR. 14.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

Marion County Approval Stamp



TREE PROTECTION BARRICADE DETAIL
 NOT TO SCALE



TREE ROOT PRUNING UNDER THE TREE CANOPY
 NOT TO SCALE

TREE PROTECTION, REMOVAL, PERMITTING, AND INSPECTIONS

The following requirements shall be conditions of tree protection and removal permits, all permits for construction in public rights-of-way, and all development permits issued under and pursuant to the Marion County Code:

- Tree preservation and/or replacement inspections are required to ensure compliance with the Marion County Code and with permitting requirements.
- Prior to any clearing, grubbing, or any construction, tree protection barricades shall be erected around all trees to be preserved. Protection barricades shall be approved by the County's Landscape Architect or designer prior to construction.
- Prior to any clearing, grubbing, or construction, a preliminary inspection shall be conducted by the County's Landscape Architect or designer to confirm that the permittee has marked trees permitted to be removed and has installed tree protection barricades around trees to be preserved. Any deficiencies noted during this inspection shall be cause to withhold approval until they are corrected by the permittee and re-inspected. Following the preliminary inspection, approval shall be noted by the County's Landscape Architect or his/her designee on the permit and shall constitute notice of preservation of trees intended.
- Contractor shall have all agreements and permits secured for demolition and protection on project site.
- Owner is responsible for locating all as-built markers and signs to avoid damage to trees not approved for removal.
- Trees to remain shall be protected per the Marion County Florida Tree Protection and Replacement Specifications, including minimum alterations to the site topography and protecting trees from any damage to preserve the long-term viability of existing trees.
- The movement or the storage of equipment, materials, debris, or fill, within the Tree Protection Zone (TPZ) or drip line of any protected tree is prohibited.
- The clearing of construction equipment, tools, materials, or the disposal of waste, e.g. paint, oil, solvents, asphalt, concrete, mortar, within the TPZ or drip line of any protected tree is prohibited.
- The contractor shall inspect all tree protection barricades and signs every week throughout construction. Any barricade or sign that is damaged or missing shall be immediately replaced.
- Any tree not permitted for removal that is destroyed or damaged so as to place its long-term survival in question, shall be replaced at an inch-to-inch basis of the total (combined) DBH of the tree(s) so destroyed or damaged. The replacement trees shall be of compatible species to the destroyed or damaged trees with a minimum replacement size of 3.5-inch caliper. The County reserves the right to establish a replacement value for such trees and payment into the Tree Mitigation Fund may be authorized by the County's Landscape Architect.
- No Certificate of Occupancy or Certificate of Completion, as appropriate, may be issued for any development involving the removal of trees requiring a permit, until all required inspections have been completed and approved.
- A final inspection shall be conducted by the County's Landscape Architect or designee after completion of tree removal and replacement. Following final inspection, and if found to be in accordance with the approved plans and requirements, approval shall be noted by the County's Landscape Architect or designee on the permit and shall constitute notice of commencement of the required maintenance period of replacement trees or replacement in-kind.

TREE PRESERVATION & REMOVAL NOTES

TREE BARRICADE NOTES:

- Barricade shall be constructed of a rigid and lasting material that shall remain whole throughout the duration of construction.
- Barricade areas may be increased in size or combined for multiple trees, so long as barricades do not encroach into the tree canopy drip line.
- Damaged or missing barricades or signs shall be immediately repaired or replaced.
- Barricades shall remain intact until landscape operations begin, or when construction has been finalized, and with approval of landscape architect.
- Landscape preparation or installation shall be performed by hand within the Tree Protection Zone (TPZ), drip line of any tree to remain, or within a barricade area.
- Trenching is prohibited within the Tree Protection Zone (TPZ), drip line of any tree to remain, or within a barricade area. Directional boring / tunneling is required if mitigation or utilities are required through these areas.
- The movement or the storage of equipment, materials, debris, or fill, within the Tree Protection Zone (TPZ), drip line of any tree to remain, or within a barricade area is prohibited.
- The clearing of construction equipment, tools, materials, or the disposal of waste, e.g. paint, oil, solvents, asphalt, concrete, mortar, within the Tree Protection Zone (TPZ), drip line of any tree to remain, or within a barricade area is prohibited.
- Tree Protection Zone:** A circular zone around each protected tree defined as follows:

 - If the drip line is less than six (6) feet from the trunk of the tree, the zone shall be that area within a minimum radius of six (6) feet around the tree.
 - If the drip line is more than six (6) feet from the trunk of the tree, but less than twenty (20) feet, the zone shall be that area within a radius of the full drip line around the tree.
 - If the drip line is twenty (20) feet or more from the trunk of the tree, the zone shall be that area within a minimum radius of twenty (20) feet around the tree.

ROOT PROTECTION:

Protect and care for existing tree roots to remain by minimizing damage from compaction, excavation, and disease. When work is required that may damage the roots of tree to remain, cut roots in advance using sharp, clean, mechanical and hand tools. For work within the tree protection zone, hand clear and backfill using narrow-tine quality forks to comb out and expose roots. Selectively cut and prune roots. Immediately follow-up root pruning, trees shall be thoroughly watered and have a four (4) inch cover of clean fill.

CANOPY PROTECTION:

Contractor shall coordinate with Landscape Architect prior to canopy pruning. Lift tree canopy of existing trees to remain as required along proposed buildings, parking and drive areas, and other structures according to International Society of Arboriculture Best Management Practices - Tree Storage. Refer to IF 858 Fire Sheet ENR 851 for additional tree pruning criteria.

MARION COUNTY CODE REQUIREMENTS

TREE REMOVAL, PRESERVATION, AND/OR REPLACEMENT INSPECTIONS/
 PERMITS ARE PURSUANT TO MARION COUNTY LAND DEVELOPMENT CODE,
 ARTICLE 6, DIVISION 7, "TREE PROTECTION AND REPLACEMENT"
<https://library.municode.com/fl/marion-county>

TREE PRESERVATION AND REMOVAL

PROJECT AREA = 358.94 AC
 TREE PRESERVATION PROJECT AREA = 17.5 AC
 SEE CIVIL PLANS FOR SITE DATA
 ALL EXISTING TREES ARE ASSUMED VIABLE AND FAVORABLY ASSESSED EXCEPT AS NOTED OTHERWISE.

EXEMPTIONS (SEC. 6.7.2.E)

EXCLUDES PARCELS TO BE USED FOR SINGLE FAMILY DWELLINGS
 (US D.S. AC. PROPERTY - 125.5 AC. PARCELS = 17.5 AC. PROJECT AREA)

PROTECTED TREES SEC. (6.7.3)

ALL TREES 10" DIAMETER BREAST HEIGHT (DBH) OR LARGER ARE PROTECTED BY CODE.

SUBMITTAL REQUIREMENTS (SEC. 6.7.5) (EXCLUDES TREES ON SINGLE FAMILY DWELLINGS)

EXISTING NUMBER OF TREES = 4

EXISTING TREE DBH INCHES = 113"

PRE DEVELOPMENT INCHES PER ACRE = 7" (113/17.5)

RETAINED TREE = 1

REMOVED DBH INCHES (10"+) = 37"

REMOVED DBH INCHES = 76"

ROOT DEVELOPMENT INCHES PER ACRE = 24"

TOTAL REQUIRED = 113"

TOTAL PROVIDED = 55"(16 EXEMPT TREES PROVIDED FOR MITIGATION)

PROTECTED TREE REPLACEMENT REQUIREMENTS (SEC. 6.7.3)

RETAIN / REPLACE TREES EQUAL TO THE LESSER OF PRE DEVELOPMENT INCHES PER ACRE, OR 100" DBH PER ACRE

THERE ARE NO REMOVED NON-EXEMPT TREES 30" +

SUMMARY OF TREES PROVIDED

37" = EXISTING TREES IN OPEN SPACE

40" = EXISTING TREES ON TRACTS

REVISIONS

DATE

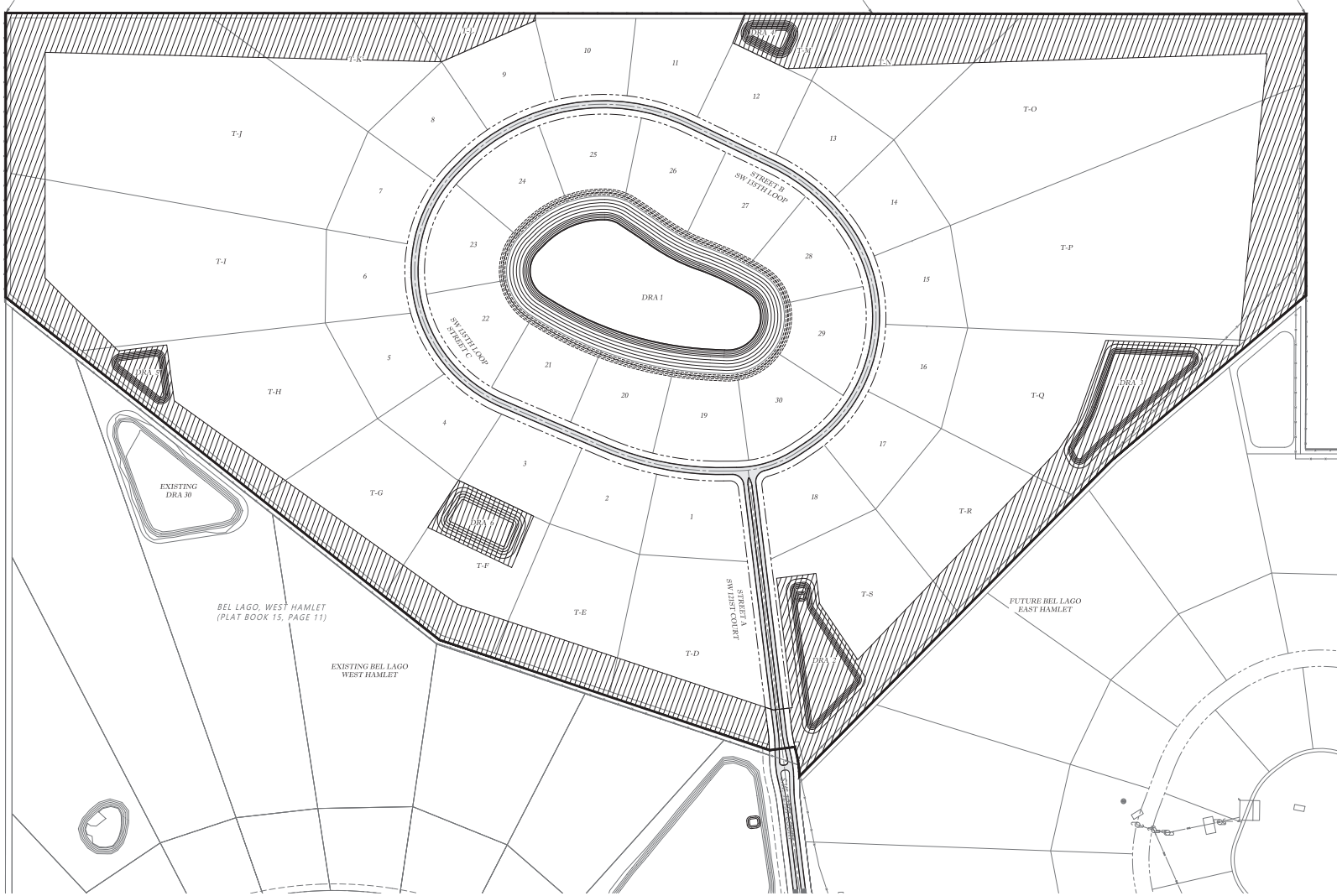
NO.	DATE	DESCRIPTION

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

TREE PRESERVATION

DATE: 11/12/2024
 DRAWN BY: JA
 CHECKED BY: TB
 JOB NO.: 22-5402

SW: 14.02



Marion County Approval Stamp

Miller & Associates
ENGINEERING, LLC
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 367-4540 Fax: (352) 367-4645
 CERTIFICATE OF AUTHORIZATION #26796

DATE	REVISIONS


MARION FRIENDLY LANDSCAPE AREA (MFLA)

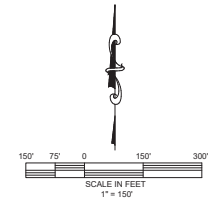
SEC 6.8.3

MARION FRIENDLY LANDSCAPING AREA (MFLA):
 That portion of a new or expanded development that through the approved development plans, documents, and deed restrictions, is identified to be maintained as Marion Friendly Landscaping and where the use of high volume irrigation, non-straw tolerant plants, and lawn chemicals (fertilizers and pesticides) on turfgrass is prohibited.

OUTSIDE PRIMARY SPRINGS PROTECTION ZONE = 15% OF PROJECT AREA SHALL BE A MARION FRIENDLY LANDSCAPE AREA.

- PROJECT AREA = 150 ACRES
- REQUIRED = 22.5 AC (0.15 x 150)
- PROVIDED = 30.3 AC

 MFLA AREA

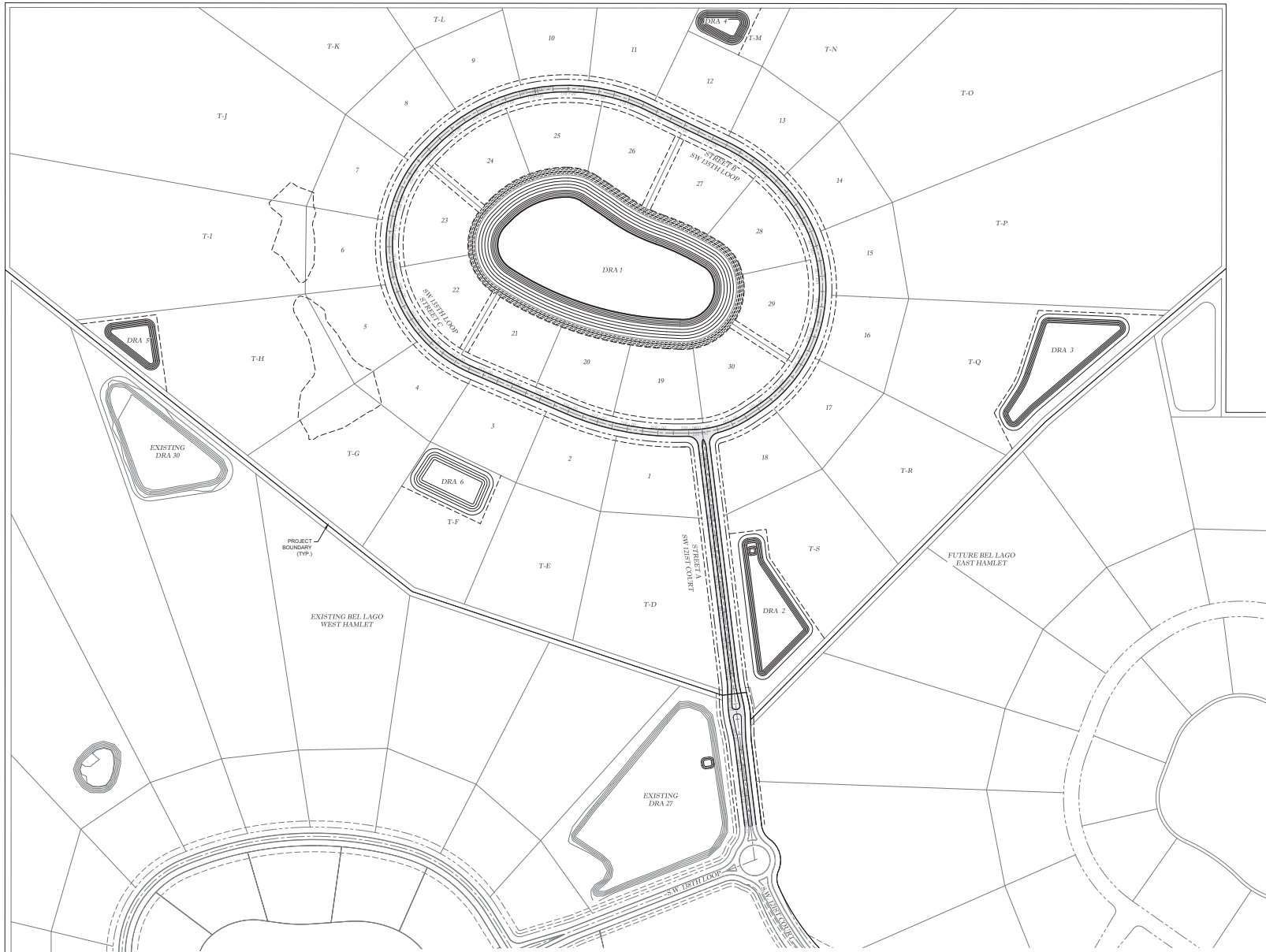


IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

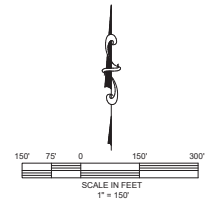
MFLA

DATE: 11/12/2024
 DRAWN BY: JA
 CHECKED BY: TR
 JOB NO.: 22-8402

SHW. 15.01



Marion County Approval Stamp



Winters & Associates
ENGINEERING, LLC
CIVIL ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
Office: (352) 367-4540 Fax: (352) 367-4545
CERTIFICATE OF AUTHORIZATION #29296

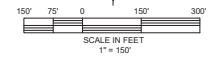
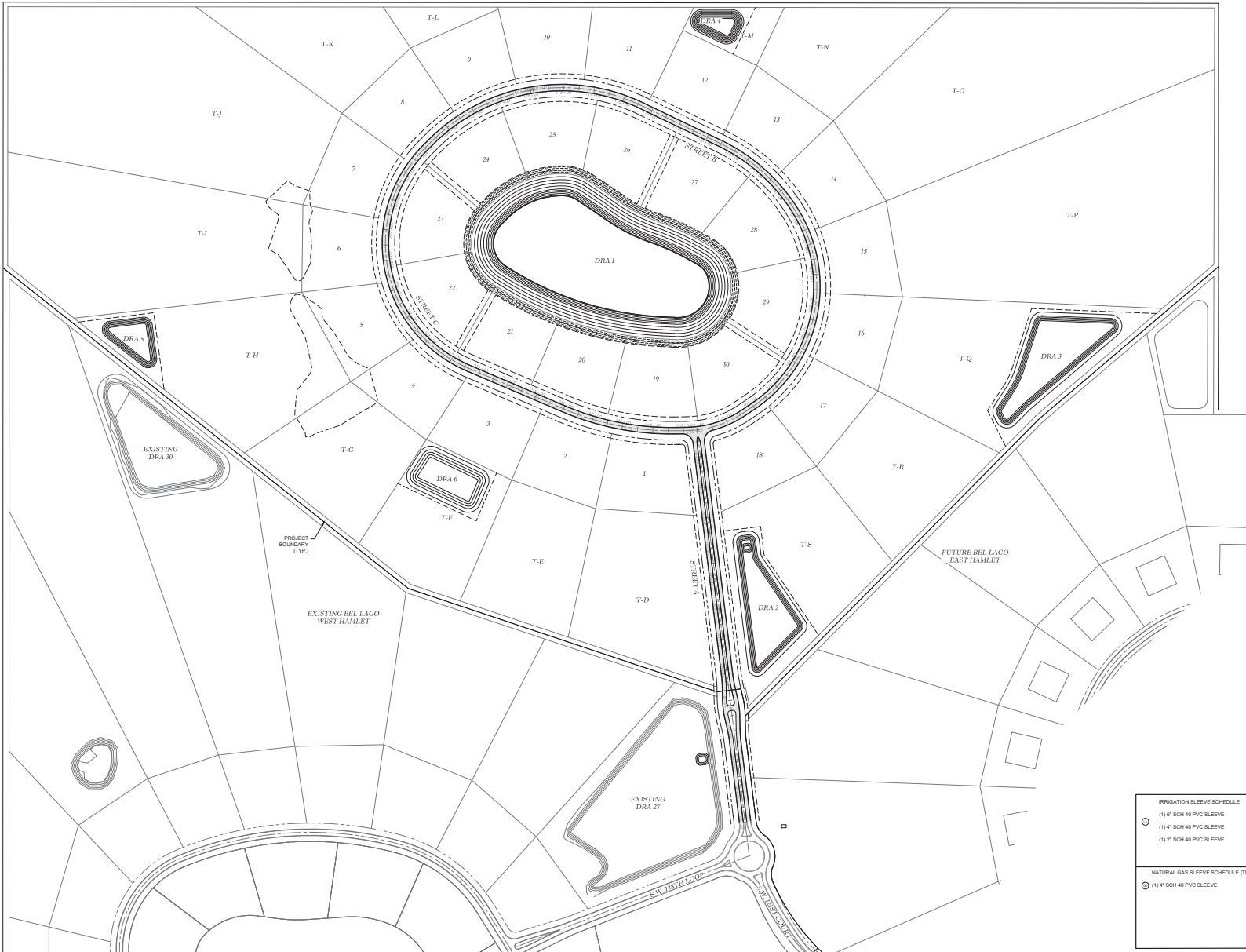
NO.	DATE	REVISIONS

IMPROVEMENT PLANS
BEL LAGO NORTH HAMLET
MARION COUNTY, FLORIDA
911 MANAGEMENT PLAN

DATE: 11/12/2024
DRAWN BY: JS
CHECKED BY: JR
JOB NO. 22-8402

REV. **RN.01**

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



LEGEND

	IRRIGATION SLEEVE
	TECO SLEEVE
	DUKE SLEEVE
	DCM SLEEVE

IRRIGATION SLEEVE SCHEDULE	ELECTRIC SLEEVE SCHEDULE (DME)
○ (1) 6" SCH 40 PVC SLEEVE	○ (1) 3" GRAY SCH 40 PVC CONDUIT
○ (1) 4" SCH 40 PVC SLEEVE	○ (2) 3" GRAY SCH 40 PVC CONDUIT
○ (1) 2" SCH 40 PVC SLEEVE	○ (3) 3" GRAY SCH 40 PVC CONDUIT
NATURAL GAS SLEEVE SCHEDULE (TECO)	TELEPHONE/CABLE/INTERNET SLEEVE SCHEDULE (DCM)
○ (1) 4" SCH 40 PVC SLEEVE	○ (1) 2" SCH 40 PVC SLEEVE
	○ (2) 2" SCH 40 PVC SLEEVE
	○ (1) 3" SCH 40 PVC SLEEVE
	○ (2) 3" SCH 40 PVC SLEEVE

Marion County Approval Stamp

Wilson & Associates
ENGINEERING, LLC
 CIVIL ENGINEERING • PLANNING • LANDSCAPE ARCHITECTURE • ENVIRONMENTAL
 1720 SE 16th Ave, Bldg 100, Ocala, FL 34471
 Office: (352) 367-4540 Fax: (352) 367-4545
 CERTIFICATE OF AUTHORIZATION # 29796

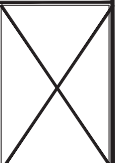
REVISIONS

DATE

IMPROVEMENT PLANS
 BEL LAGO NORTH HAMLET
 MARION COUNTY, FLORIDA

SLEEPING PLAN

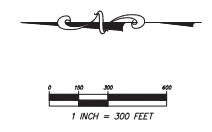
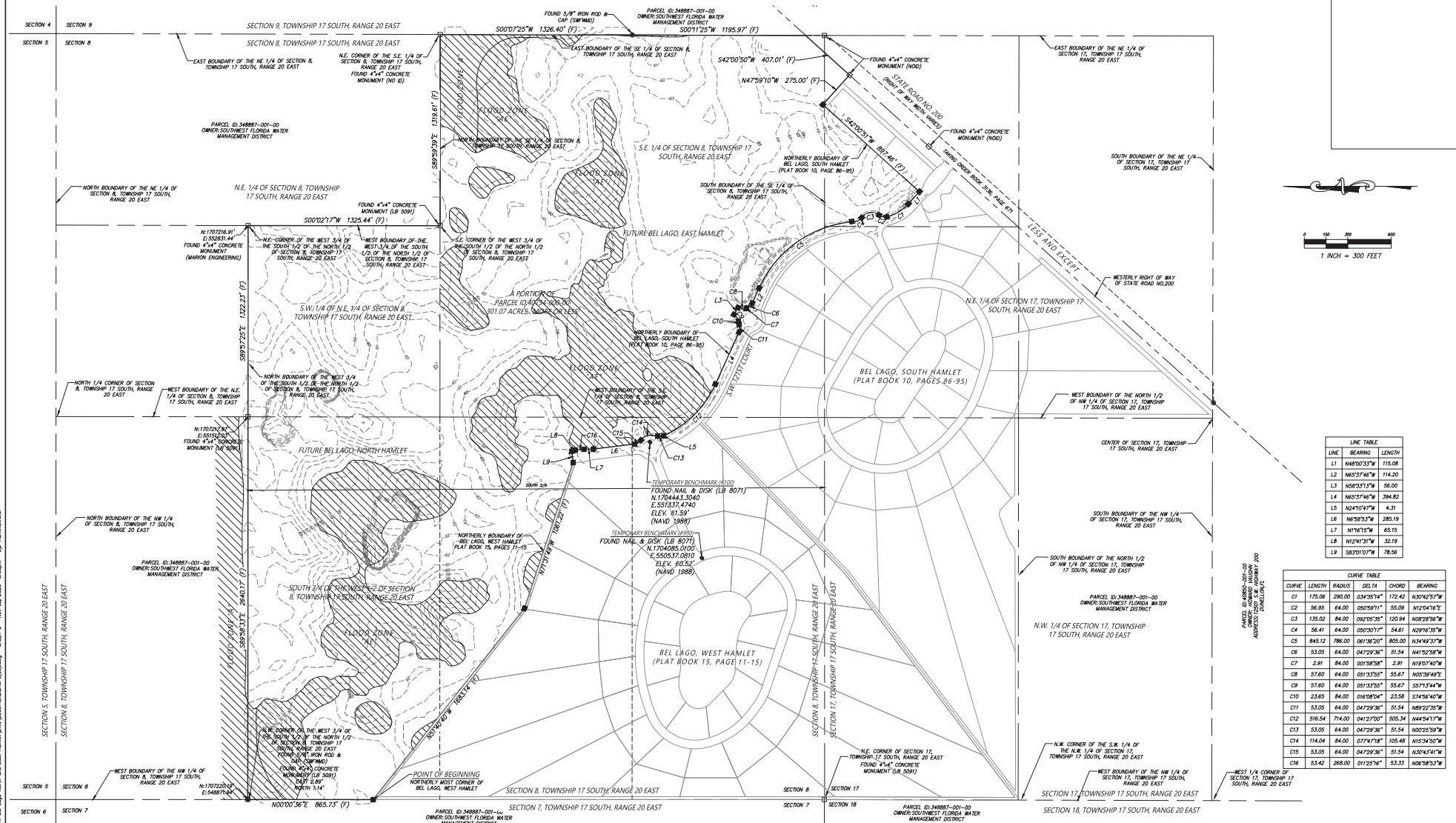
DATE: 11/12/2024
 DRAWN BY: AS
 CHECKED BY: TJ
 JOB NO: 22-5402



SHEET **SL.01**

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

**BOUNDARY AND TOPOGRAPHIC SURVEY FOR:
BEL LAGO, NORTH HAMLET AND BEL LAGO, EAST HAMLET
A PORTION OF SECTIONS 8 AND 17, TOWNSHIP 17 SOUTH, RANGE 21 EAST
MARION COUNTY, FLORIDA**



LINE TABLE		
LINE	BEARING	LENGTH
L1	N48°03'33"W	715.00
L2	N63°37'46"W	714.20
L3	N58°33'13"W	56.00
L4	N63°37'46"W	394.82
L5	N24°15'47"W	4.30
L6	N48°55'57"W	285.19
L7	N1°16'16"W	65.15
L8	N12°41'31"W	52.10
L9	S83°01'07"W	78.56

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING
C1	175.06	290.00	034°18'14"	172.42 N30°42'53"W
C2	56.93	64.00	020°59'11"	55.09 N10°04'16"E
C3	135.02	64.00	082°05'35"	120.94 N08°28'56"W
C4	56.41	64.00	020°01'27"	54.61 N29°16'25"W
C5	845.12	786.00	061°36'20"	803.00 N34°49'33"W
C6	53.05	64.00	047°29'36"	51.54 N47°52'58"W
C7	2.91	64.00	021°58'58"	2.91 N10°07'40"W
C8	57.60	64.00	021°33'50"	55.67 N02°39'49"E
C9	57.60	64.00	021°33'50"	55.67 S37°15'46"W
C10	23.65	64.00	016°03'04"	23.58 S71°55'07"W
C11	53.05	64.00	047°29'36"	51.54 N02°22'35"W
C12	516.54	714.00	041°37'07"	505.34 N44°34'37"W
C13	53.05	64.00	047°29'36"	51.54 N02°22'59"W
C14	114.04	64.00	0274°74"	105.48 N153°43'50"W
C15	53.05	64.00	047°29'36"	51.54 N02°22'59"W
C16	53.42	268.00	0123°26"	53.33 N06°58'53"W

PARCEL ID: 348887-001-00
OWNER: SOUTHWEST FLORIDA WATER
MANAGEMENT DISTRICT
ADDRESS: 12000 W. 12TH AVENUE, SUITE 200
GAINESVILLE, FL 32609

REVISIONS			
FB/PG	DATE	DRAWN	REVISION

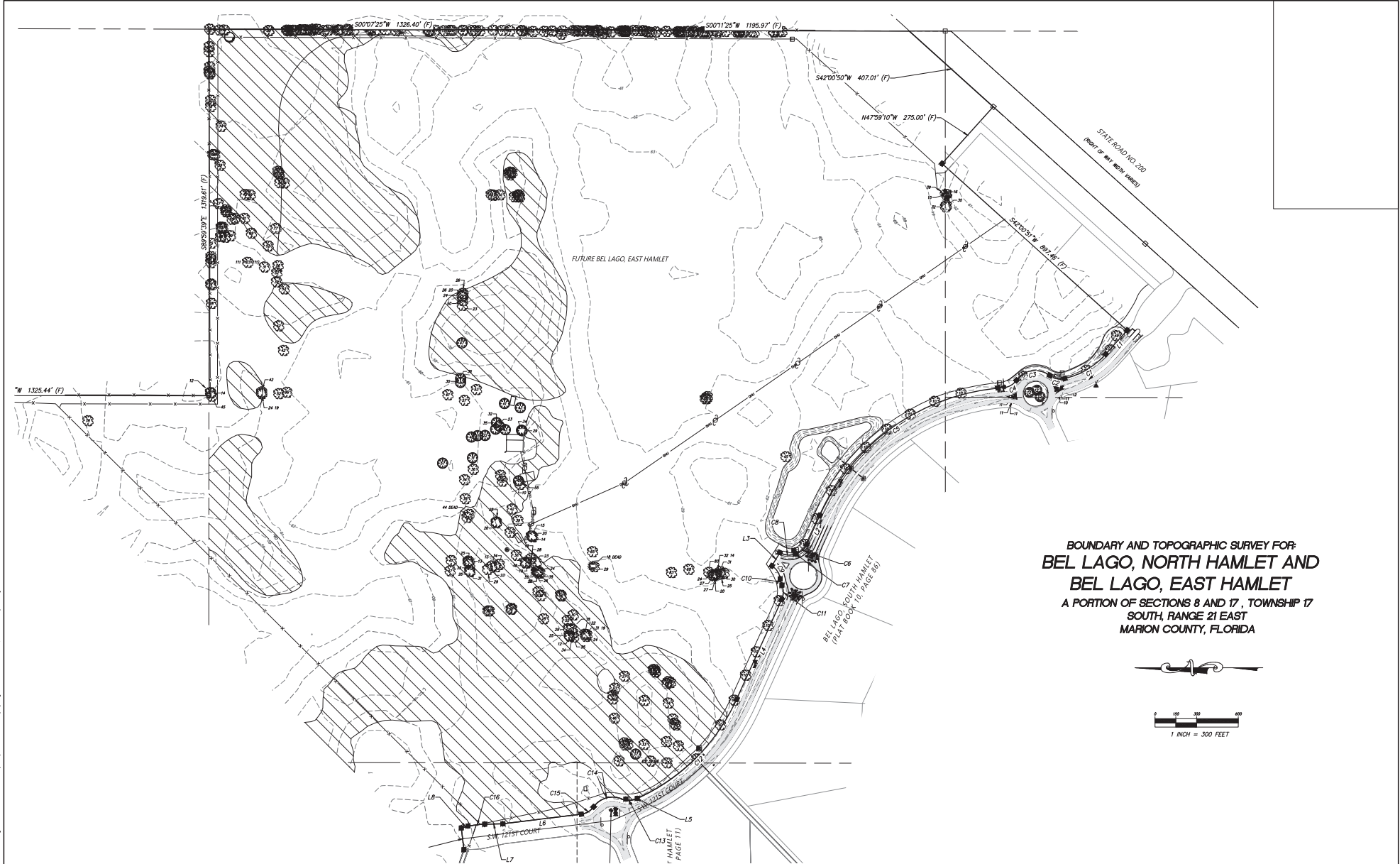

JCH
 CONSULTING GROUP, INC.
 LAND DEVELOPMENT - SURVEYING & MAPPING
 PLANNING - ENVIRONMENTAL - C.E.S.
 2638 137TH STREET, OCALA, FLORIDA 34771
 PHONE: 352.466.1466 FAX: 352.775.2333 www.jchgroup.com
 010-100-432 or 101-000-011000

LOCATED IN SECTIONS 8 AND 17
 TOWNSHIP 17 SOUTH, RANGE 20 EAST
 MARION COUNTY, FLORIDA

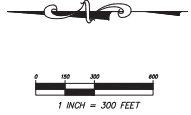
PLAT OF BOUNDARY AND
 TOPOGRAPHIC SURVEY
 -FOR-
 ARBOR SPRINGS PROPERTIES, LLC

FB/PG	FIELD DATE	JOB NO.	2 OF 4
---	09/11/2023	230331BND&TOPO	
DRAWING DATE	BY	APPROVED	SCALE
09/21/2023	M.A.	C.H.	1"=300'

Drawing name: 21\Projects\230331\Bel Lago North and East Hamlet\DWG\230331BND&TOPO.dwg SHEET 2 - Nov. 02, 2023 2:38pm By: Administrator



**BOUNDARY AND TOPOGRAPHIC SURVEY FOR:
 BEL LAGO, NORTH HAMLET AND
 BEL LAGO, EAST HAMLET**
 A PORTION OF SECTIONS 8 AND 17, TOWNSHIP 17
 SOUTH, RANGE 21 EAST
 MARION COUNTY, FLORIDA



Drawing name: Z:\Projects\120217 Bel Lago North and East Hamlet\DWG\120217\HAMLET\120217.dwg DATE: 7 Nov 02 2023 2:38pm By: Administrator

REVISIONS				
FB/PG	DATE	DRAWN	REVISION	OKD


JCH
 CONSULTING GROUP, INC.
 LAND DEVELOPMENT - SURVEYING & MAPPING
 PLANNING - ENVIRONMENTAL - G.I.S.
 25 SW 15TH STREET, OCALA FLORIDA 34773
 PHONE: 352.466.1400 FAX: 352.775.2333 www.jchgroup.com
 200 WINDY HILL RD. SUITE 1000 Ocala, FL 34771

LOCATED IN SECTIONS 8 AND 17
 TOWNSHIP 17 SOUTH, RANGE 20 EAST
 MARION COUNTY, FLORIDA

PLAT OF BOUNDARY AND
 TOPOGRAPHIC SURVEY
 -FOR-
 ARBOR SPRINGS PROPERTIES, LLC

FB/PG	FIELD DATE		JOB NO.
---	09/11/2023		230311BND&TOPO
DRAWING DATE	BY	APPROVED	SCALE
09/21/2023	M.A.	C.H.	1"=300'

3
 OF
 4

**BOUNDARY AND TOPOGRAPHIC SURVEY FOR:
 BEL LAGO, NORTH HAMLET AND BEL LAGO, EAST HAMLET
 A PORTION OF SECTIONS 8 AND 17, TOWNSHIP 17 SOUTH, RANGE 21 EAST
 MARION COUNTY, FLORIDA**



Drawing name: Z:\Projects\230311\Bel Lago North and East Hamlet\DWG\230311BND&TOPO.dwg SHEET # 4 of 02 09/11/2023 2:38pm by Administrator

REVISIONS				
FB/PG	DATE	DRAWN	REVISION	CHKD

JCH
 CONSULTING GROUP, INC.
 LAND DEVELOPMENT - SURVEYING & MAPPING
 PLANNING - ENVIRONMENTAL - C.A.S.
 26 SW 13TH STREET, OCALA, FLORIDA 34707
 PHONE: 352.266.1400 FAX: 352.275.2333 www.jchgroup.com
 C.S. LICENSE NO. 16170-0000010000 - J.C. 2007

LOCATED IN SECTIONS 8 AND 17
 TOWNSHIP 17 SOUTH, RANGE 20 EAST
 MARION COUNTY, FLORIDA

PLAT OF BOUNDARY AND
 TOPOGRAPHIC SURVEY
 -FOR-
 ARBOR SPRINGS PROPERTIES, LLC

FB/PG	FIELD DATE		JOB NO.
---	09/11/2023		230311BND&TOPO
DRAWING DATE	BY	APPROVED	SCALE
09/21/2023	M.A.	C.H.	1"=300'

4
 OF
 4