



**AGENDA
TECHNICAL REVIEW COMMITTEE
REGULAR MEETING
MAY 22, 2025
10:00 AM
CITY HALL COMMISSION CHAMBERS
204 ASH STREET
FERNANDINA BEACH, FL 32034**

- 1. CALL TO ORDER**
- 2. ROLL CALL**
- 3. PLEDGE OF ALLEGIANCE**
- 4. FIRST STEP REVIEWS (PRE-APPLICATION ITEMS)**
- 5. NEW BUSINESS**
 - 5.1 TRC-2025-0004 - GILLETTE & ASSOCIATES, INC., AGENT FOR KINGDOM MINISTRIES INC., BLOCK 233 LOT 8 S. 13TH STREET**
Site plan review for the creation of 7 lots, for six residential townhomes.
 - 5.2 TRC-2024-0010 - COLE MENHENNETT, AGENT FOR CHRISTWALK CHURCH OF GOD INC., 2920 BAILEY ROAD**
Site plan review for the construction of an addition to the main structure with associated sidewalks, driveway aprons, parking delineation, and utility improvements.
- 6. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA - DISCUSSION ONLY, NO ACTION TO BE TAKEN.**
- 7. PUBLIC COMMENTS**
- 8. COMMITTEE BUSINESS**
- 9. ADJOURNMENT**

NEXT REGULAR TRC MEETING IS SCHEDULED FOR JUNE 12, 2025.

Persons with disabilities requiring accommodations in order to participate in this program or activity should contact 310-3115, TTY 711, or through the Florida Relay Services at 1-800-955-8771 (TTY number for all City offices) at least 24 hours in advance to request such accommodations.

Technical Review Committee: Application - Submission #15864

Date Submitted: 4/1/2025

Technical Review Committee: Application

USE THIS FORM TO To apply for review of site plans, preliminary subdivision plats, final subdivision plats, minor subdivisions, and amendments to previously issued local development orders, change of use, and nonresidential building expansions.

Fees

- ☐ Initial submittal + two resubmittals of full site plans. \$400 + 2% of the project construction cost (whichever is greater) for up to a maximum of \$4,400.
- ☐ 3rd and subsequent resubmittals. 1/2 of original application fees
- ☐ Engineering Review (Consultant Hourly Rate)

2025 Meeting Calendar

Application Deadline (4:30pm)	Dec 05 2024	Jan 02 2025	Feb 06 2025	Mar 06 2025	Apr 03 2025	May 01 2025	June 05 2025	July 03 2025	Aug 07 2025	Sept 04 2025	Oct 02 2025	Nov 06 2025	Dec 04 2025	Jan 01 2026
Meeting Date	Dec 19 2024	Jan 23 2025	Feb 27 2025	Mar 27 2025	Apr 24 2025	May 22 2025	June 26 2025	July 24 2025	Aug 28 2025	Sept 25 2025	Oct 23 2025	Nov 20 2025	Dec 18 2025	Jan 22 2026

In observance of Thanksgiving on November 27, the TRC Regular Meeting is moved up to November 20.

In observance of Christmas on December 25, the TRC Regular Meeting is moved up to December 18.

IMPORTANT NOTES

This application will be routed to the various departments for review of the applicable codes and design standards.

****Please note that, unless otherwise indicated, the TRC meetings are scheduled as the following:**

TRC Applications are reviewed at 10:00 AM on the 4th Thursdays of each month in City Hall Chambers (204 Ash Street).**

Please see the Land Development Code (LDC) for detailed information:

- ☐ Requirements for All Site Plans – see LDC section 11.01.04
- ☐ Requirements for Subdivision Plats – see LDC section 11.01.05
- ☐ Determination for Completeness & sufficiency – see LDC section 11.03.01
- ☐ Review and Compliance Report by the Technical Review Committee – see LDC Section 11.03.02
- ☐ Construction and Improvements – see LDC section 11.05.00
- ☐ Amendments to Local Development Orders – see LDC section 11.06.00

The LDC is available for review at www.fbfl.us/LDC

Application Requirements

- ☐ See Development Plan Submittal Checklist
- ☐ All applications are subject to a determination of completeness as required by Land Development Code section 11.03.01.
- ☐ A determination of completeness is a determination that all required documents and plans have been submitted, and whether all fees have been paid.
- ☐ A determination of completeness is not a determination of compliance with substantive standards and criteria.

Key Contacts
TRC will guide your application from start to finish, engaging other City departments as needed.



PROJECT INFORMATION

Submission Type*

Initial Submittal

NOTICE
3rd and all subsequent resubmittals will be charged a fee of 1/2 the original application fees.

DATE OF YOUR FIRST STEP MEETING (if you have not attended a First Step Meeting , return to the application page and choose the TRC First Step meeting application)*

3/13/2025

Case Number (if applicable)*

PROPERTY INFORMATION

[Property information can be found at the Nassau County Property Appraiser’s Website → Map Search](#)

Site Address*

South 13th Street

City*	State*	Zip*
Fernandina Beach	FL	32034

Parcel ID #(s)

00-00-31-1800-0233-0080

Lot**Block****Subdivision****Zoning District****Future Land Use Designation*****Overlay District*****Size of Property (acres)*****Present Property Use*****Wetlands*****Flood Zone*****Coastal Construction Control Line (CCCL)***

OWNER OF RECORD

As recorded with the Nassau County Property Appraiser

First Name***Last Name*****Company (if applicable)****Mailing Address*****City*****State*****Zip*****Telephone Number*****Email Address***

OWNER'S AGENT

If other than owner. If an agent will be representing the owner, an Owner's Authorization For Agent Representation form must be included.

First Name	Last Name
Nick	Gillette

Company (if applicable)

Gillette & Associates, Inc.

Mailing Address

31 South 4th Street, Suite 1

City	State	Zip
Fernandina Beach	FL	32034

Telephone Number	Email Address
9042618819	nick@gilletteassociates.com

PROJECT INFORMATION

Project Type*	Project Name
Site Plan Review	Replat Lot 8 Block 233

Proposed Access Road*	Rd Maintenance Jurisdiction*
Vernon Street and South 13th Street	City Maintained

Project Estimated Cost*

300,000

Description of Request*

6 residential townhomes

Site Plan Review Checklist

- ☐ The names, address, telephone number, and email address of the person preparing the plan.
- ☐ The date of preparation and date(s) of any modifications, a north arrow, and a written and graphic scale.
- ☐ The legal description of the property, consistent with the required survey.
- ☐ A vicinity map showing the location of the property.
- ☐ The location of streams, bodies of water, natural features, roads, rights-of-way, street intersections, and paved areas within the boundaries of the property.
- ☐ The location of streams, bodies of water, dunes and dune systems, and other natural features within 250 feet of the boundaries of the property.
- ☐ The location of the mean high-water line, if such line is within the boundaries of the property.
- ☐ A topographic survey, soils report, grading plan, and an erosion control plan.
- ☐ A general floodplain map indicating areas subject to inundation and high groundwater levels up to a 100-year flood classification.
- ☐ A statement indicating the distances to schools and public safety facilities intended to serve the proposed development.
- ☐ The name, plat book, and page number of any recorded subdivision comprising all or part of the site.
- ☐ The location and use of any existing and proposed principal or accessory buildings and structures, showing proposed setbacks, building heights, and other dimensional requirements of the zoning district.
- ☐ Elevations of all proposed structures.
- ☐ The access points, driveway design, on-site parking, including required parking lot landscaping, internal circulation, sidewalks, and bicycle facilities.
- ☐ The location of existing and proposed utilities, utility services, and easements.
- ☐ A tree survey showing protected trees, proposed replacement trees, if required, and landscaping and buffering. (See Section 4.05.00.)
- ☐ A soil erosion and sediment control plan compliant with Section 3.01.04.
- ☐ For a PUD site plan, a detailed, written list and explanation of how the proposed PUD differs from any provision of this LDC applicable to the underlying zoning district.
- ☐ For site plans and PUD site plans where development is proposed in phases, the plans shall include phase lines and the following supporting information:
 - ☐ o Timeline for the development; and
 - ☐ o Benchmarks for monitoring the progress of construction of each phase regarding land clearing, soil stabilization and erosion control, installation of infrastructure, and installation of landscaping.
- ☐ A summary block containing:
 - ☐ o Land use category from the Future Land Use Map in the comprehensive plan;
 - ☐ o Zoning district;
 - ☐ o Total acreage;
 - ☐ o Total square footage for non-residential uses;
 - ☐ o Total density and number of units, proposed and permissible for residential uses;
 - ☐ o Impervious surface ratio calculation, proposed and permissible;
 - ☐ o Floor area ratio calculation, proposed and permissible;
 - ☐ o Total number of parking spaces, required and provided; and
 - ☐ o Number of trees required to be protected, number of trees remaining on the site, and number of trees to be planted.
- ☐ Additional plans, documents, or reports that are necessary to support the application shall be submitted. Such plans, documents, or reports may include, but are not limited to:
 - ☐ o Subdivision Plats (subdivision plats shall contain the information set forth in Section 11.01.05.)

- ☐ o Concurrency analysis (concurrency analysis reports shall contain the information set forth in Section 7.04.00.)
- ☐ o Traffic analysis reports (requirements for traffic analysis reports are set forth in Section 11.01.06.)
- ☐ o Parking studies (requirements for parking studies are set forth in Section 7.01.04.)
- ☐ o Stormwater management plans (requirements for stormwater management plans are set forth in Section 7.03.00.)
- ☐ o Environmental Impact Study (requirements for environmental impact studies are set forth by regional, State, and federal agencies with jurisdiction and in Chapter 3 of the LDC.)
- ☐ o Tree Protection Plan (Section 4.05.09.)
- ☐ o Landscape Plan (Section 4.05.00.)
- ☐ o Lighting Plan (Section 3.05.00.), Section 7.01.04.B)
- ☐ o Signage Plan (Section 5.03.00.)
- ☐ o Proof of Ownership – provide a legal description, Property Identification Number (PIN) and a copy of the warranty deed.
- ☐ Concurrency analysis reports shall contain the information set forth in Section 7.04.00. Requirements for traffic analysis reports are set forth in Section 11.01.06. Requirements for parking studies
- ☐ • Any development application for development proposed within the Airport Overlay Zone established for the Fernandina Beach Municipal Airport shall provide confirmation of notification to the FAA as r

School Concurrency

New residential development is required to demonstrate compliance with school concurrency as regulated in the City of Fernandina Beach through the City of Fernandina Beach's Comprehensive Plan Intergovernmental Coordination Element and the Interlocal Agreement Amendment for Public School Facility Planning adopted by the City on May 21, 2019. No new residential rezoning, preliminary plat, site plan or functional equivalent may be approved by the City unless the residential development is exempt from requirements outlined in Section 9.13 of the Amended Interlocal Agreement OR a School Concurrency Reservation Letter has been issued by the School Board indicating that adequate school facilities exist.

Certification*

- ☒ By signing below, I certify that the information contained in this application is true and correct to the best of my knowledge at the time of the application.
- ☒ I acknowledge that I understand and have complied with all of the submittal requirements and procedures.

Applicant First Name*

Nick

Applicant Last Name*

Gillette

Today's Date*

2/12/2025

Upload Supporting Documentation*

Lot 8 Block 233 Civil-signed.pdf

Upload 2

Lot 8 Block 233 drainage report-signed.pdf

Upload 3

deed.pdf

Upload 4

agent authorization signed.pdf

Upload 5

[Choose File](#) No file chosen

Upload 6

[Choose File](#) No file chosen

Upload 7

[Choose File](#) No file chosen

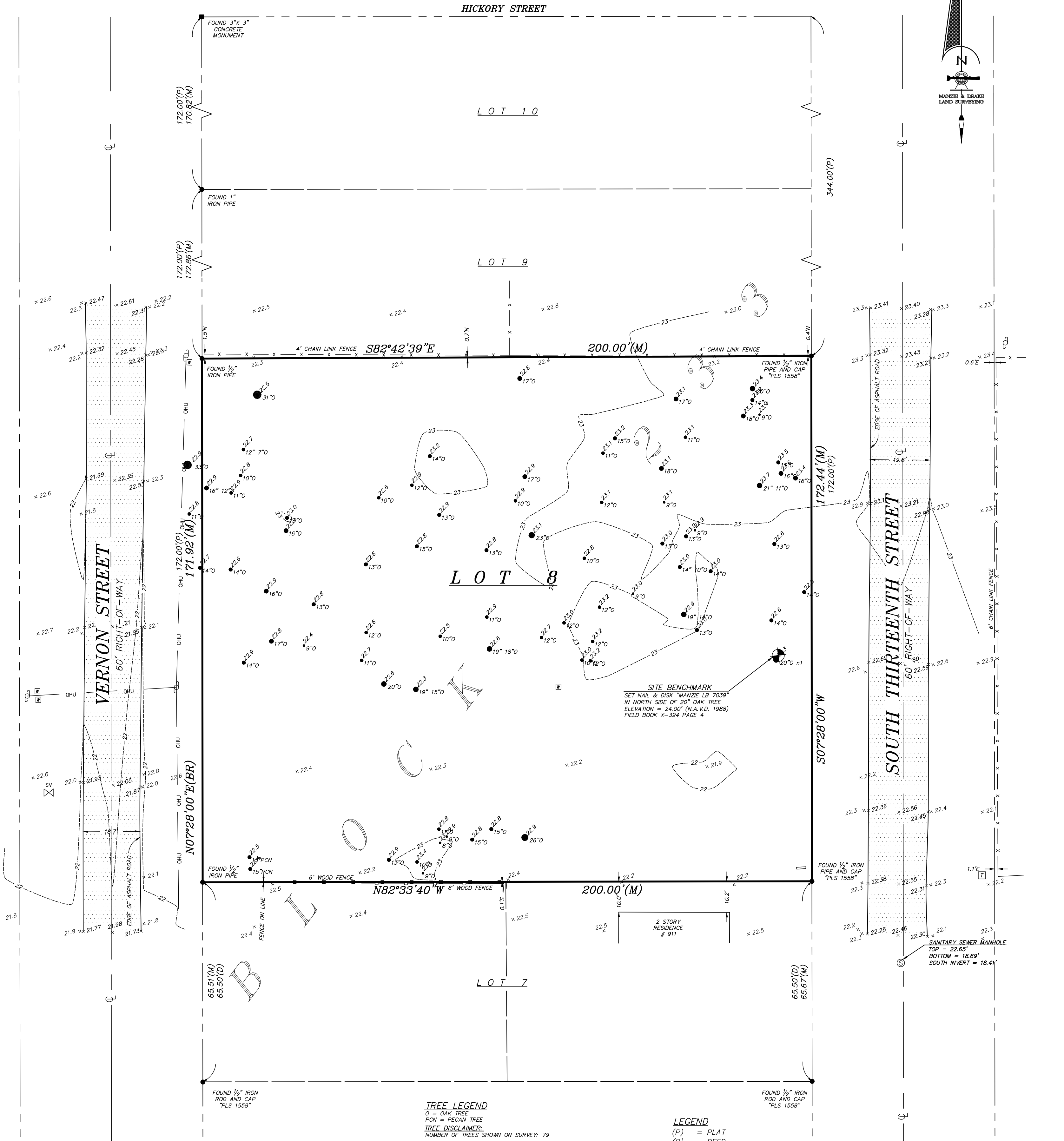


DEPARTMENT OF PLANNING & CONSERVATION

204 Ash Street | Fernandina Beach, FL 32034 | 904 310-3480 | www.fbfl.us/planning

MAP OF BOUNDARY & TOPOGRAPHIC SURVEY

ALL THAT CERTAIN LOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE CITY OF FERNANDINA BEACH,(FORMERLY NAMED FERNANDINA) COUNTY OF NASSAU, AND BEING FURTHER DESCRIBED ACCORDING TO OFFICIAL MAP OR PLAT OF SAID CITY (AS LITHOGRAPHED AND ISSUED BY THE FLORIDA RAILROAD COMPANY IN 1857 AND ENLARGED BY THE FLORIDA TOWN IMPROVEMENT COMPANY IN 1887 AND 1901), AS; LOT EIGHT (8), BLOCK TWO HUNDRED THIRTY-THREE (233).



SURVEY NOTES:

- 1) Unless it bears the original signature and the original raised seal of a Florida licensed Surveyor and Mapper or Validated Digital Signature by a Florida licensed Surveyor and Mapper, this map/report is for informational purposes only and is not valid.
- 2) The "Legal Description" hereon is in accord with the description provided by the client
- 3) Underground Improvements were not located or shown.
- 4) Lands shown hereon were not abstracted by this office for easements, rights-of-way, ownership or other instruments of record.
- 5) Bearings shown hereon are based on N07°28'00"E for the easterly right-of-way line of Vernon Street. The bearing reference line is indicated as thus (BR).
- 6) The property shown hereon lies within flood zone "X" per the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panel 12089C 0237G, dated 08/02/2017.
- 6) Site Benchmark is as shown hereon.
- 7) Elevations shown hereon refer to North American Vertical Datum of 1988. (N.A.V.D. '88)
- 8) The Reference Benchmark is the Northeast corner of the catch basin at the Northwest corner of Lot 1 Block 238. (Elevation = 19.62 N.A.V.D. 1988)

TREE LEGEND

O = OAK TREE
PCN = PECAN TREE

TREE DISCLAIMER:

NUMBER OF TREES SHOWN ON SURVEY: 79

SPECIES OF TREES HAVE BEEN IDENTIFIED TO THE BEST OF OUR KNOWLEDGE AND BELIEF; HOWEVER MANZIE & DRAKE LAND SURVEYING WILL ASSUME NO LIABILITY, EXPRESSED OR IMPLIED, FOR THE CORRECTNESS OF SAID SPECIES IDENTIFICATION.

TREES HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE UNDER CURRENT CONDITIONS AND HAVE A POSITIONAL TOLERANCE OF APPROXIMATELY 2 TO 3 FEET. CRITICAL TREES SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

LEGEND

- (P) = PLAT
- (D) = DEED
- (M) = MEASURED
- C = CENTERLINE
- WPP = WOOD POWER POLE
- OHU = OVERHEAD UTILITY WIRES
- SV = SEWER VALVE
- WM = WATER METER
- T = TELEPHONE PEDESTAL

THE INFORMATION SHOWN HEREON MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

Michael A
Manzie

Digitally signed by Michael A Manzie
Date: 2025.02.18 08:53:47 -05'00'

MICHAEL A. MANZIE, P.L.S. 4069

MANZIE & DRAKE LAND SURVEYING

117 South Ninth Street, Fernandina Beach, FL 32034
(904) 491-5700 www.ManzieAndDrake.com
Certificate of Authorization Number "LB 7039"

"OUR SIGHTS ARE ON THE FUTURE, SET YOUR SITES ON US."

SCALE: 1"=20' JOB NO: 17442-8 DATE: 02/12/2025 CADD: G.SPIKES
F.B. NO: X-394 PAGE NO: 4 CREW: S.SHORES FILE NO: B-2063

From: Tricia Bowen tricia@gilletteassociates.com @
Subject: agent auth
Date: January 20, 2025 at 3:10 PM
To: Jay Mock jay@jaymock.com

Pastor Avant

Tricia Bowen, Office Manager
Gillette & Associates, Inc.
31 South 4th Street, Suite 1
Fernandina Beach, Florida 32034
Phone: 904-261-8819



Civil & Environmental Engineering • Mechanical & Structural Engineering • Construction Management

AGENT AUTHORIZATION

I, KME Rev. Wardell Avant, Jr. the owner the following property(s) do hereby authorize, Gillette & Associates, Inc., to act as my Agent in conjunction with all site plan applications and any other Local, State and/or Federal development permits necessary for development of the following property, without any further notice.

Property Id Number(s): #8 Parcel # 00-00-31-1800-0233-0080

Location: Fernandina Bch, FL

Wardell Avant, Jr. 1-31-25 904-583-2156
Signature Date Telephone Number
Wardell Avant, Jr.

STATE OF FLORIDA
COUNTY OF NASSAU

Subscribed and sworn to before me this 31st day of JANUARY, 2025.

Who is personally known to me _____ or has produced identification ☒
FLDL

Tosha S. Byrd
Notary Public: Signature

TOSHA S. BYRD
Printed Name



TOSHA S. BYRD
Notary Public, State of Florida
Commission# HH 454595
My comm. expires Oct. 16, 2027



SCHOOL IMPACT ANALYSIS FORM

Revised 12/15/19

INTRODUCTION

New residential development is required to demonstrate compliance with school concurrency as regulated in the City of Fernandina Beach through the City of Fernandina Beach's Comprehensive Plan Intergovernmental Coordination Element and the Interlocal Agreement Amendment for Public School Facility Planning adopted by the City on May 21, 2019. No new residential rezoning, preliminary plat, site plan or functional equivalent may be approved by the City unless the residential development is exempt from requirements outlined in Section 9.13 of the Amended Interlocal Agreement OR a School Concurrency Reservation Letter has been issued by the School Board indicating that adequate school facilities exist.

Application Process for School Concurrency:

1. Submittal of Development Application, including this School Impact Analysis (SIA) Form.
2. The City of Fernandina Beach Staff transmits the SIA to Nassau County School Board.
3. The Nassau County School Board reviews the SIA Form per requirements in the Interlocal Agreement and makes a determination of capacity.
4. If sufficient capacity is available, the School Board will issue a School Concurrency Reservation Letter. This letter indicates only that school facilities are currently available, and capacity is not reserved until Nassau County issues a Certificate of Concurrency.
5. Upon receipt of a School Concurrency Reservation Letter, The City of Fernandina Beach Planning Staff will issue a Certificate of Concurrency for the development. Certificates are valid for a two (2) year period. Approved construction plans or building permits extend the life of the certificate concurrent with the expiration of the applicable plan or permit.
6. If sufficient capacity is not available, the School Board will issue a Concurrency Deficiency Letter, at which time the applicant will be offered the opportunity to enter into a negotiation period to allow time for the mitigation process as outlined in the Interlocal Agreement. As the end of the negotiation period, the School Board will issue a School Concurrency Reservation Letter where mitigation has been mutually agreed upon; or if mitigation has not been agreed upon, a School Concurrency Deficiency Letter. If a Reservation Letter is drafted, The City of Fernandina Beach will issue a subsequent Certificate of Concurrency.

KEY CONTACTS

The City of Fernandina Beach staff will guide your SIA form through the process. planninginfo@fbfl.city or 904.310.3480.

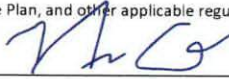
Owner of Record	As recorded with the Nassau County Property Appraiser	Applicant or Agent	If an agent will be representing the owner, an Owner's Authorization for Agent form must be included
Owner(s) Name Kingdom Ministries, Inc		Applicant or Agent Name Nick Gillette	
Company (if applicable)		Company (if applicable)	
Street Address P.O. Box 16299		Mailing Address 31 South 4th Street	
City, State, Zip Fernandina Beach, FL 32034		City, State, Zip Fernandina Beach, FL 32034	
Telephone Number		Telephone Number 904-261-8819	
Email Address		Email Address nick@gilletteassociates.com	

City of Fernandina Beach, Department of Planning & Conservation · 204 Ash Street Fernandina Beach, FL 32034

P: 904.310.3480 – Email: PlanningInfo@fbfl.city – www.fbfl.us

Revised December 2019



Project Information					
PIN: 00 00 31 1800 0233 0080					
Project Address	South 13th/Vernon Street, Fernandina Beach, FL 32034				
Access Road	Name: South 13th/Vernon Street, Fernandina Beach, FL 32034 ☒ City ☒ Maintained ☐ Unpaved Private Easement				
Size of Property	0.79 AC		Present Property Use	Undeveloped	
Zoning District	R-2	Future Land Use Map	MDR	Overlay District	n/a
Wetlands	n/a	Flood Zone	n/a	Water & Sewer	City of FB
Project Description (use separate sheet if necessary): 6 unit townhome project					
Number of Dwelling Units Proposed (Total): 6					
Number of Dwelling Units Proposed (By Type): 6 townhouse units					
Single-Family Detached:					
Single-Family Attached:	6				
Multi-Family:					
List any applications under review or approved which may assist in the review of this application: Technical Review Committee - City of FB					
I HEREBY CERTIFY THAT ALL INFORMATION IS TRUE AND CORRECT I understand that reasonable inspections of the project may be made as part of the application review process. I understand that I will incur any costs associated with third-party review fees. I also understand that any material misrepresentations or errors contained in this application or supporting documents may void an approved application, at the reasonable determination of the County considering the Land Development Code, Comprehensive Plan, and other applicable regulations.					
Nick Gillette				3-25-25	
PRINT		SIGNATURE		DATE	

The City of Fernandina recognizes that some content on this page may not be accessible. If you need assistance completing this form, please call our office and we will assist you (904)310-3480, or email Planninginfo@fbfl.city.



Civil & Environmental Engineering • Mechanical & Structural Engineering • Construction Management

SITE DRAINAGE EVALUATION

**Lot 8 – Block 233 Replat
Fernandina Beach, FL**

BY

**Gillette & Associates, Inc.
20 South 4th Street
Fernandina Beach, FL**

April 2, 2025

**Nickey E
Gillette**

Digitally signed by Nickey E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.03.31 12:16:46 -0400

PROJECT DESCRIPTION

The proposed project consists of a replat of an existing block in the City of Fernandina Beach. The block is located between Vernon Street and South 13th Street. The site is 0.79 acres in total. The plat will include a total of 6 townhomes with driveway access off of existing roadways.

EXISTING CONDITIONS

The project site is vacant and under-brushed with trees. No wetlands are present on the subject property.

Drainage Analysis:

Treatment volume calculations are provided for the 6 lots. A dry, internal swale with outfall to Vernon Street is proposed for the project. A hydraulic connection is also proposed to South 13th Street to convey water through the project if necessary. Excess treatment volume is provided within the internal system.

<u>Treatment Volume Required:</u>	750 cubic feet
<u>Treatment Volume Provided:</u>	1,094 cubic feet

POND CALCULATIONS

Lot 8, Block 233 - Dry Pond Post Developed

Basin Calculations

Basin 1

Composite Cn

Total Drainage Area =	26251 ft^2	
Impervious Area =	9000 ft^2	34% Impervious
Pond Area =	4070 ft^2	
Impervious Cn =	98.0	
Pond Cn =	100.0	
Pervious Cn =	60.0	
Composite Cn =	79.2	

Time of Concentration, Tc

Minimum Time of Concentration =	10 min.
Length of Overland Flow @ 1ft/sec. =	250 ft.
Length of Pipe Flow @ 2.5 ft/sec. =	0 ft.
Tc =	15 min.

Pond Information

El. (ft.)		Area ft^2	Volume ft^3
22.75	TOB	4070	3440
22.40	weir	3194	2169
21.75		2317	378
21.50	Bottom	704	

Treatment Volume Required, TVR (on-line retention)

TVR = 1" * (1'/12")* Impervious Area =	750 ft^3
or	
0.5" * (1'/12")*Total Drainage Area =	1094 ft^3
TVR =	1094 ft^3

Treatment Volume Provided, TVP

TVP = Vol @ Weir =	2169 ft^3	OK
--------------------	-----------	----

ENGINEERING PLANS

FOR

REPLAT - LOT 8, BLOCK 233

FOR

YANIE ROAD, LLC

REPLAT - LOT 8, BLOCK 233

FOR

YANIE ROAD, LLC

RELEASED FOR CONSTRUCTION BY

GILLETTE & ASSOCIATES, INC.

CIVIL & ENVIRONMENTAL ENGINEERING
MECHANICAL & STRUCTURAL ENGINEERING
PERMITTING & CONSTRUCTION MANAGEMENT

20 SOUTH 4TH STREET AMELIA ISLAND, FLORIDA 32034
PHONE: 904/261-8819

PERMITTING AGENCIES

CITY OF FERNANDINA BEACH: 904-310-3421
SJRWMD: 904-730-6270

UTILITY PROVIDERS

WATER/SEWER: CITY OF FERNANDINA BEACH
ELECTRIC: FLORIDA PUBLIC UTILITIES
CABLE: COMCAST
TELEPHONE: AT&T

G&A Project
No.:25-10.18

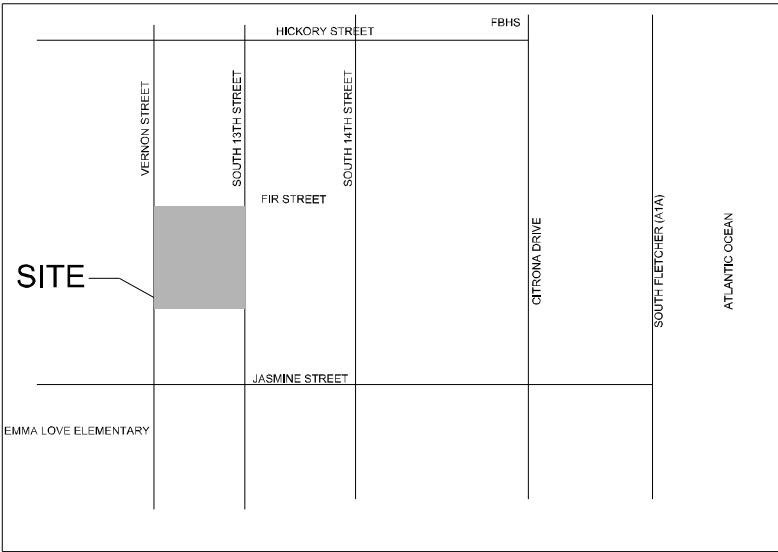
G & A

Nickey E
Gillette
Issue Date: April 2, 2025

Digitally signed by Nickey E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.03.31 12:17:27 -0400



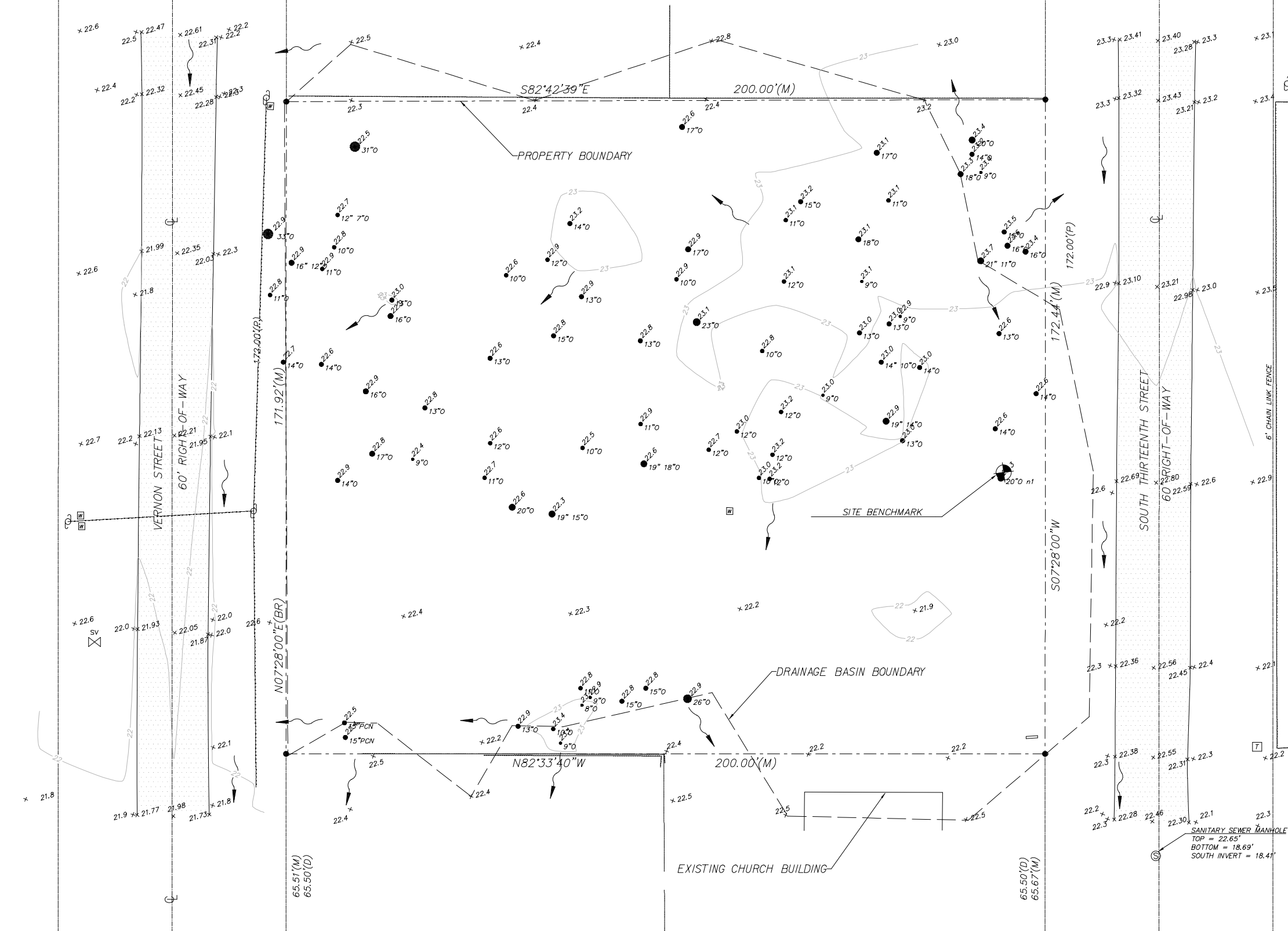
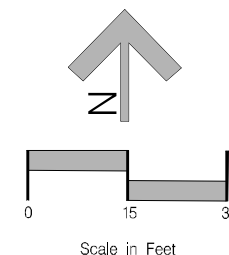
SITE LOCATION MAP



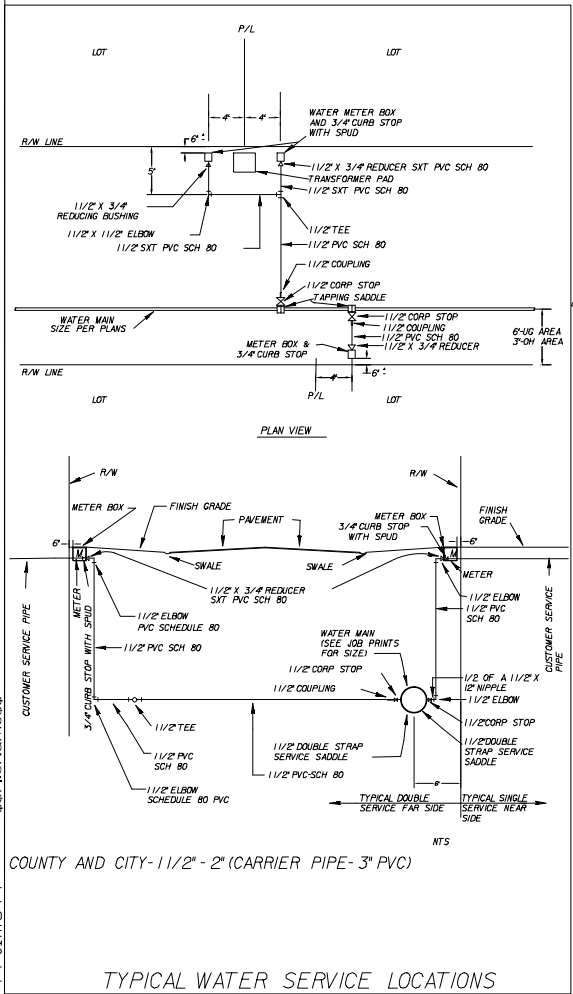
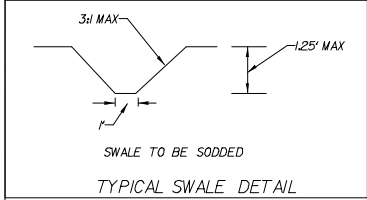
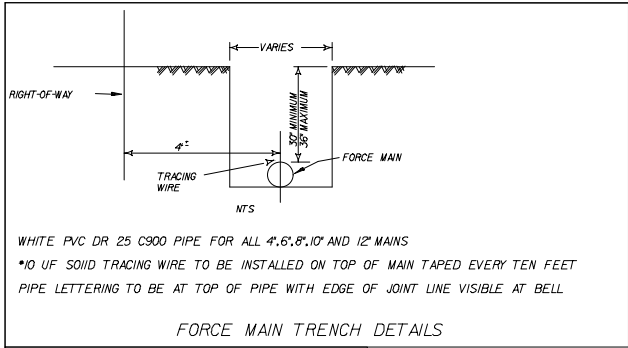
GENERAL NOTES										INDEX			
SITE / GEOMETRY										WATER NOTES		SHEET	DESCRIPTION
1.ALL WORK SHALL BE PERFORMED IN A SAFE MANNER,ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED.THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES,AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT.ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA,REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK. 2.THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS,EITHER SURFACE OR SUBSURFACE,WHICH MAY AFFECT THE WORK TO BE PERFORMED,AND THE EQUIPMENT,LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.THE CONTRACTOR IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION,AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.ALL COSTS ASSOCIATED WITH PRELIMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 3.ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER. 4.ELEVATIONS ARE BASED ON NAVD 1988. 5.TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY:MANZIE & DRAKE LAND SURVEYORS (904-491-5700) 6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING,RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT. 7.THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR. 8.THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCHEDULE.THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS.IN THE EVENT OF ANY CONFLICT WHATSOEVER,THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD,AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. 9."AS-BUILT" DRAWINGS - AS-BUILTS ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE,IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION,FIELD LOCATIONS,CERTIFICATION,AND SUBMITTAL OF AS-BUILT DRAWINGS. 10."AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR.RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER. 11.THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS,IF A MONUMENT IS DISTURBED,THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT. 12.ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS. 13.ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER. 14.ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED. 15.THE LOCATION OF ALL EXISTING UTILITIES,STRUCTURES,AND IMPROVEMENTS ON THE DRAWINGS ARE BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED.THE LOCATIONS ARE APPROXIMATE.THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION,IF THE LOCATIONS SHOWN ARE CONTRARY TO ACTUAL FIELD LOCATIONS,THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY.THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION.THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS,PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION,THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS,AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL CONNECT. 16.THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS,FOR REVIEW AND APPROVAL,PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE. 17.UNSUITABLE MATERIALS UNDER WATER,SEWER,OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF ITS MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).										1.WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER UNDER PAVEMENT OR 30" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN.ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH,AND UNDER THE DIRECTION OF THE UTILITY COMPANY. 2.THRUST RESTRAINTS ARE REQUIRED IN ACCORDANCE WITH UTHE UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 3.TIE RODS SHALL BE INSTALLED ON ALL VALVES LOCATED AT FITTINGS.ALL 10" AND LARGER VALVES AND LARGER SHALL REQUIRE (4)TIE RODS. MEGA LUG JOINT RESTRAINTS MAY BE USED IN LIEU OF THRUST BLOCKS OR TIE RODS. 4.UNLESS OTHERWISE NOTED,WATER MAINS ARE TO BE PVC DR18,DR-25,C-900 (BLUE),CLASS 150. 5.ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C-600.NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER MAINS HAVE BEEN PRESSURE TESTED, DISINFECTED,AND CLEARED FOR SERVICE.THE UTILITY COMPANY'S AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT. 6.THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES.THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.BOIL WATER NOTICES SHALL BE DELIVERED IN ACCORDANCE WITH THE UTILITY COMPANY BOIL WATER NOTICE REQUIREMENTS. 7.ALL MAIN FLUSHING POINTS SHALL BE SAME SIZE AS MAIN UP TO 8 INCH WATER MAINS.FLUSHING POINTS FOR MAINS LARGER THAN 8 INCH SHALL BE REDUCED TO 8 INCH. 8.ALL WATER MAINS SHALL BE DISINFECTED USING LIQUID CHLORINE OR HYPOCHLORITES IN ACCORDANCE TO AWWA C651-86. WATER IN MAIN SHALL MAINTAIN A CHLORINE RESIDUAL OF 50 MG/L FOR A MINIMUM OF 24 HOURS.WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE HAS BEEN PROVIDED BY THE APPROPRIATE REGULATING AGENCY AND UNITED WATER FLORIDA. 9.IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH,WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED.BASED ON APPROVAL OF THE PERMITTING AGENCY,DUCTILE IRON PIPE,FITTINGS,AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA.THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED,ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATER PROOF COVERING.THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL. 10.2" FLUSHING HYDRANTS SHALL BE INSTALLED AT ALL DEAD END LINES AND MAIN LINE STUB-OUTS. 11.A SEPARATE WATER SERVICE SHALL BE REQUIRED FOR EACH UNIT SERVED AND SHALL BE INSTALLED 3 FEET EITHER SIDE OF PROPERTY LINE.ALL WATER SERVICES SHALL BE MARKED WITH A "W" ETCHED ON THE CURB.ALL VALVES SHALL BE MARKED WITH A "V" ETCHED ON THE CURB. 12.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS. 13.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AT THE CONSUMER'S METER OR AT THE PROPERTY LINE WHEN A METER IS NOT USED. 14.BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A STATE OF FLORIDA LICENSED BACKFLOW TECHNICIAN.TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY PRIOR TO ACCEPTANCE OF INSTALLATION. 15.MAXIMUM DEPTH ON WATER SERVICES TO METER TO BE 36".		ALL PERMITTING AGENCIES	
												1	COVER SHEET
												2	INDEX SHEET
3	PRE-DEVELOPMENT DRAINAGE PLAN												
4	GEOMETRY PLAN												
5	POST DEVELOPMENT DRAINAGE PLAN												
6	TREE RETENTION/MITIGATION PLAN												
										FIRE NOTES			
										1.WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED,COMPLETED,AND IN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE.(NFPA 1,16.4.3.1,2009 EDITION)			
										2.CLEARANCES OF SEVEN AND ONE HALF FEET (7 FT-6 IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT,WITH A FOUR FOOT CLEARANCE TO THE REAR OF THE HYDRANT.(NFPA 1,18.3.4.1,2009)			
										3.NEW FIRE HYDRANT(S) SHALL BE INSTALLED SO THAT POSITIONED NOT MORE THAN 7 FEET 6 INCHES AWAY FROM CURB OR BERM OF THE ROADWAY.			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.			
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING.PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.			
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM).GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18 JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.			
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.			
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING			
										13.ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT			
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.			
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.			
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER.NO LEAKAGE ALLOWED IN SYSTEM.			
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN			
										18. ALL FORCE MAIN TO BE PVC (DR-18)			
										SEWER NOTES			
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.			
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.			
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE			
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.			
										5.A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.			
										6.GRAVITY SEWER TO BE GREEN IN COLOR			
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.			
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIG			

\$\$\$\$\$times\$\$\$\$\$FileNames\$\$\$\$\$

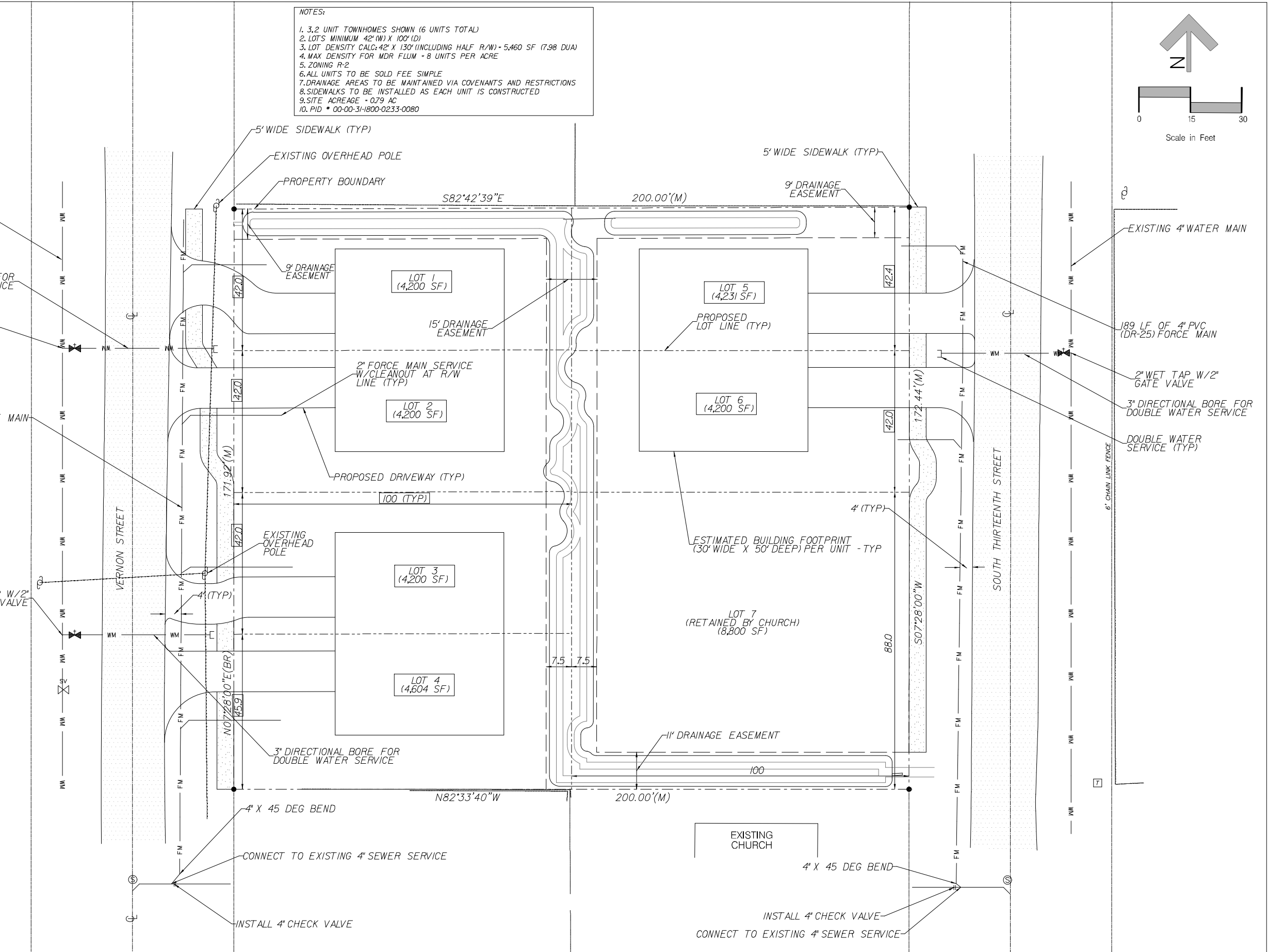
Digitally signed by Nickey E Gillette
DN: cn=Nickey E Gillette, c=US, o=Unaffiliated, email=nick@gilletteassociates.com
Date: 2025.04.11 2:20:50



10		Scale:		G & A⁺ GILLETTE & ASSOCIATES, INC. 31 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819 FAX: (904) 261-9905		REPLAT LOT 8 BLOCK 233		YANIE ROAD, LLC		PREDEVELOPMENT DRAINAGE PLAN		Nickey E Gillette Digitally signed by Nickey E Gillette DN: cn=Nickey E Gillette, c=US, o=Unaffiliated, email=nick@gilletteassociates.com Date: 2025.03.31 12:17:58 -0500 Issue Date April 2, 2025 Project No.		Sheet No. PRE-1 3 of 6 Registered Professional	
9															
8															
7															
6		Project Mgr: AG		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"											
5		Designed by: NG													
4		Drawn by: NG													
3		QA/QC: AB													
2															
1															
No.	By	Date	Revision												



No.	By	Date	Revision
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			



Scale:

Project Mgr: AG

Designed by: NG

Drawn by: NG

QA/QC: AB

Gillette & Associates, Inc.

31 South 4th Street

Fernandina Beach, FL 32034

Certificate of Authorization No. 9332

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"

G & A

GILLETTE & ASSOCIATES, INC.

31 SOUTH 4TH STREET

FERNANDINA BEACH, FL 32034

PHONE: (904) 261-8819

FAX: (904) 261-9905

REPLAT LOT 8

BLOCK 233

YANIE ROAD, LLC

GEOMETRY PLAN

Nickey E Gillette

Registered Professional

Sheet No. GE-1

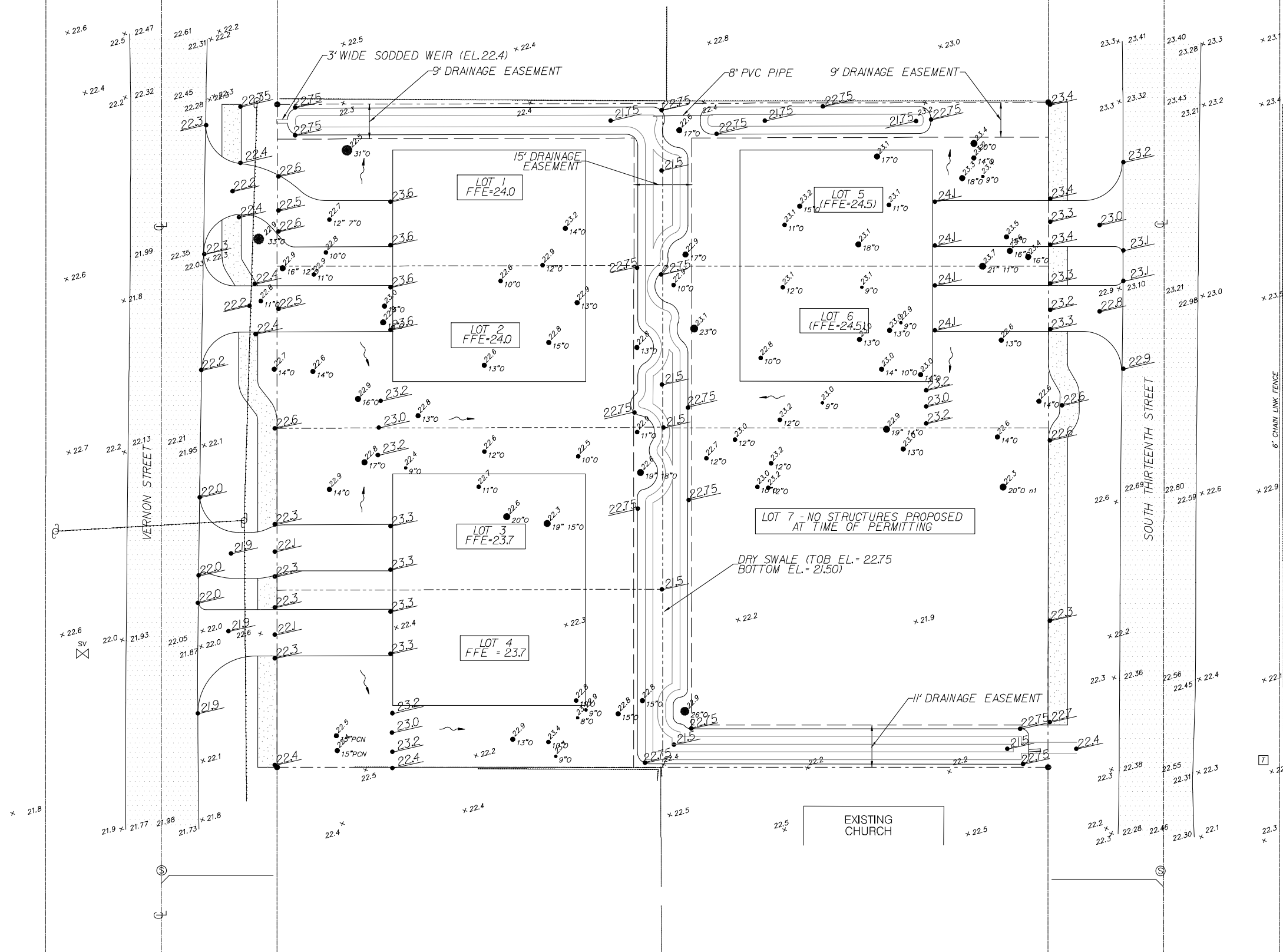
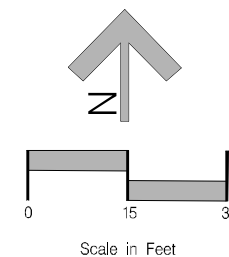
Digitally signed by Nickey E Gillette

DN: cn=Nickey E Gillette, o=Unaffiliated, email=nick@gilletteassociates.com

Date: 2025.03.31 14:11:20Z

Issue Date: 2/10/2025

Project No.



11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
No.	By	Date	Revision

Scale:	
Project Mgr: <u>AG</u>	Gillette & Associates, Inc. 31 South 4th Street Fernandina Beach, FL 32034
Designed by: <u>NG</u>	
Drawn by: <u>NG</u>	Certificate of Authorization No.9332
QA/QC: <u>AB</u>	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"

G & A[†]
GILLETTE & ASSOCIATES, INC.
31 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819
FAX: (904) 261-9905

REPLAT LOT 8
BLOCK 233

YANIE ROAD, LLC

POST DEVELOPMENT DRAINAGE PLAN

Nickey E Gillette

Digitally signed by Nicky E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.03.31 12:13:00 -0500

DR-1
5 of 6
April 2, 2025
Project No.

Registered Professional

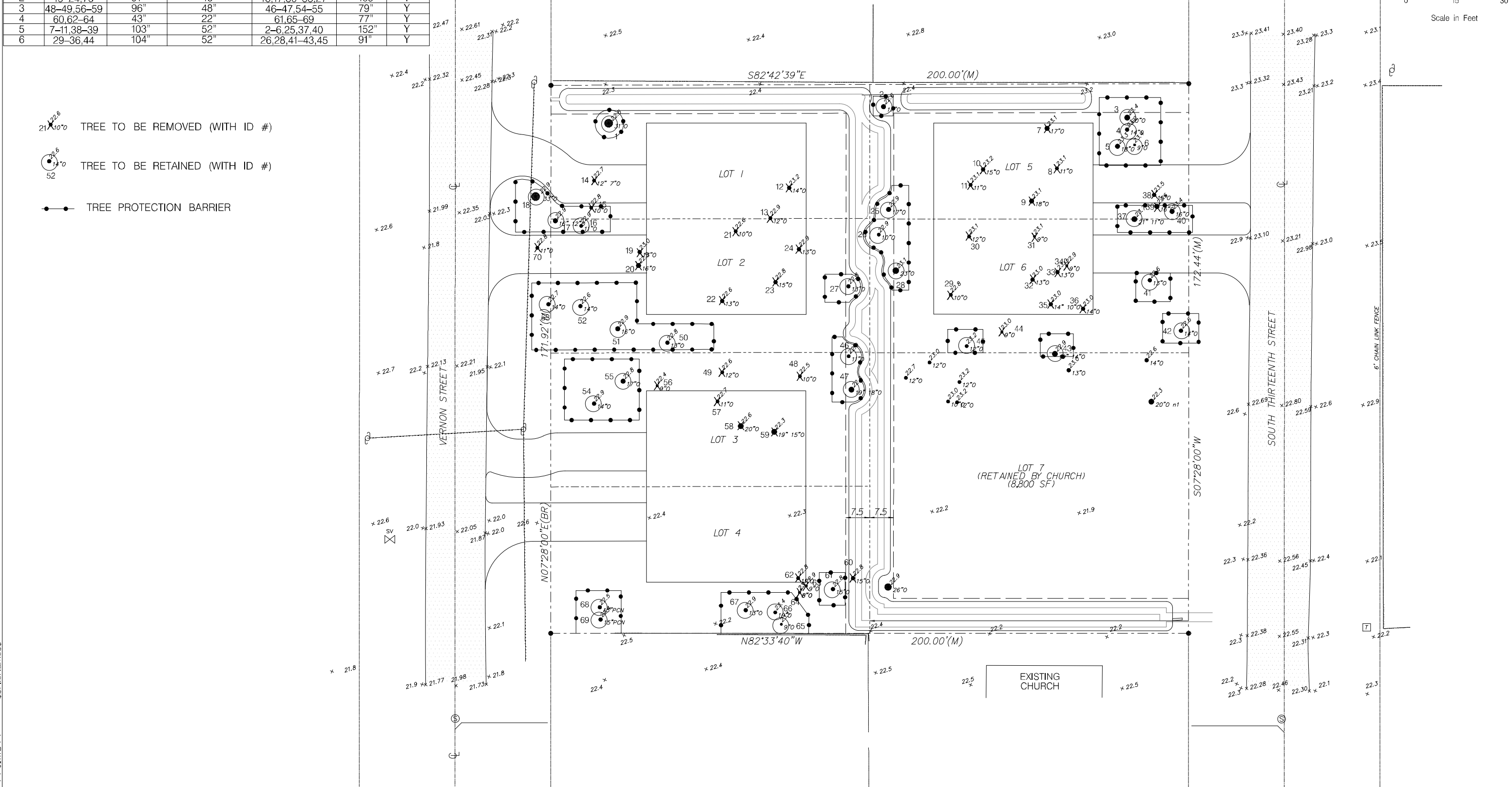
TREE MITIGATION CALCULATIONS						
LOT #	TREE ID REMOVED	DBH REMOVED	MITIGATION REQ'D (50% x DBH REMOVED)	TREE ID RETAINED	DBH RETAINED	PASSES (Y/N)
1	12,13,14,15	55"	28"	1,18	64"	Y
2	19-24,70	91"	46"	16,17,50-53,27	109"	Y
3	48-49,56-59	96"	48"	46-47,54-55	79"	Y
4	60,62-64	43"	22"	61,65-69	77"	Y
5	7-11,38-39	103"	52"	2-6,25,37,40	152"	Y
6	29-36,44	104"	52"	26,28,41-43,45	91"	Y

- 

TREE TO BE REMOVED (WITH ID #)
- 

TREE TO BE RETAINED (WITH ID #)
- 

TREE PROTECTION BARRIER





April 15, 2025

Asa Gillette
31 S. 4th Street
Fernandina Beach, FL 32034
tricia@gilletteassociates.com
nick@gilletteassociates.com

Sent Via Email to Project Team

Applicant Name: (*Agent Nick Gillette*)

Project Description: 6 new Townhomes and subdivision of lot 8, block 233 into 4 new lots.

Location: Lot 8 Blk 233 S. 13th St

PIN(s): 00-00-31-1800-0233-0080

TRC Case Number: TRC 2025-0004

Mr. Gillette,

The City of Fernandina Beach received your request for a site plan review on Tuesday, April 1, 2025. A complete application was determined on Thursday, April 3, 2025. All submitted documents provided were routed to the Technical Review Committee (TRC). The comments provided as part of this site plan review are valid for six months from the date of issuance.

Please submit response documents to address each comment in a narrative form and with an amended site plan no later than Thursday, May 1, 2025, for staff to schedule the public hearing to review the project at the TRC meeting on Thursday, May 22, 2025, at 10am at City Hall Commission Chambers.

If you have any questions, please contact us at TRCinfo@fbfl.city or 904-310-3480.

Sincerely,

Margaret Pearson on behalf of

Kelly N. Gibson, AICP
TRC Coordinator



REVIEW COMMENTS:

PLANNING

☒ The Planning Department has reviewed the submittal and noted the following comments:

Please add the wording “Townhomes” to the cover sheet and title blocks.

Please show the calculation in a table to demonstrate that the project meets the R-2 zoning Impervious Surface Maximum Ratio of 60% for each lot.

Per LDC 4.05.04 A landscaping plan shall demonstrate compliance with the standards of this section. Single-family Detached and Two-family Duplex Residential Development Single-family and two-family development must include, at a minimum, two (2) native, shade trees for every 2,500 square feet of lot area or fraction thereof.

At least four (4) native trees may be located in the front, side, or rear yard. *Suggest providing information/calculations in table form on landscape plan.*

Please show how each townhome will meet the 2 parking spaces requirements.

Please show the building setbacks for each lot.

Consider location of mail kiosk per USPS

OR

☐ All previous comments have been addressed, and the Department of Planning & Conservation approves issuance of a local development order

Name of Reviewer: Planning Staff

Today's Date: Monday, April 14, 2025

BUILDING

☐ The Building Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Building Department approves issuance of a local development order.



Name of Reviewer: First Last

Today's Date: Select Date

UTILITIES, STORMWATER, & STREETS

☒ The Public Works Departments has reviewed the submittal and noted the following comments:

- Please clarify why the sidewalk is changing distances from the edge of pavement.
- Replace “cleanout” with “curb stop and valve” on the forcemain laterals.
- Please clarify the purpose of running a 4” forcemain on either side. There is a 6” forcemain on S 13th that runs in front of the property and 10” gravity line on Vernon.

OR

☐ All previous comments have been addressed, and the Public Works Department approves issuance of a local development order.

Name of Reviewer: Victoria Guadagnino

Today's Date: Friday, April 11, 2025

CODE ENFORCEMENT

☐ The Code Enforcement Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Code Enforcement Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

FIRE



☐ The Fire Department has reviewed the submittal and noted the following comments:

- Addresses will be assigned at or near the issuance of the LDO.

OR

☒ All previous comments have been addressed, and the Fire Department approves issuance of a local development order.

Name of Reviewer: Jason Higginbotham

Today's Date: Monday, April 14, 2025

ENGINEERING PLANS

FOR

REPLAT - LOT 8, BLOCK 233
6 TOWNHOMES

FOR

YANIE ROAD, LLC

REPLAT - LOT 8, BLOCK 233
6 TOWNHOMES

FOR

YANIE ROAD, LLC

RELEASED FOR CONSTRUCTION BY

GILLETTE & ASSOCIATES, INC.

CIVIL & ENVIRONMENTAL ENGINEERING
MECHANICAL & STRUCTURAL ENGINEERING
PERMITTING & CONSTRUCTION MANAGEMENT

20 SOUTH 4TH STREET AMELIA ISLAND, FLORIDA 32034
PHONE: 904/261-8819

PERMITTING AGENCIES

CITY OF FERNANDINA BEACH: 904-310-3421
SJRWMD: 904-730-6270

UTILITY PROVIDERS

WATER/SEWER: CITY OF FERNANDINA BEACH
ELECTRIC: FLORIDA PUBLIC UTILITIES
CABLE: COMCAST
TELEPHONE: AT&T

G&A Project
No.:25-10.18

G & A

Nickey E
Gillette

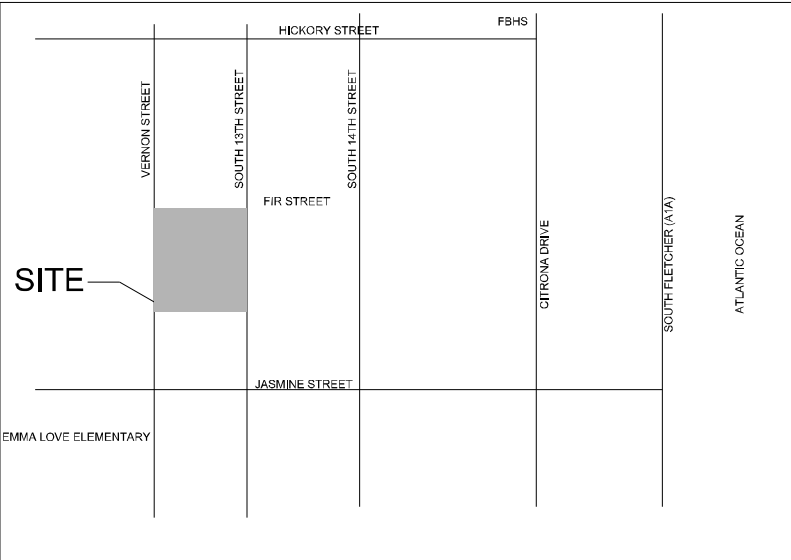
Digitally signed by Nickey E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.04.17 11:27:47 -04'00'

Issue Date: April 2, 2025

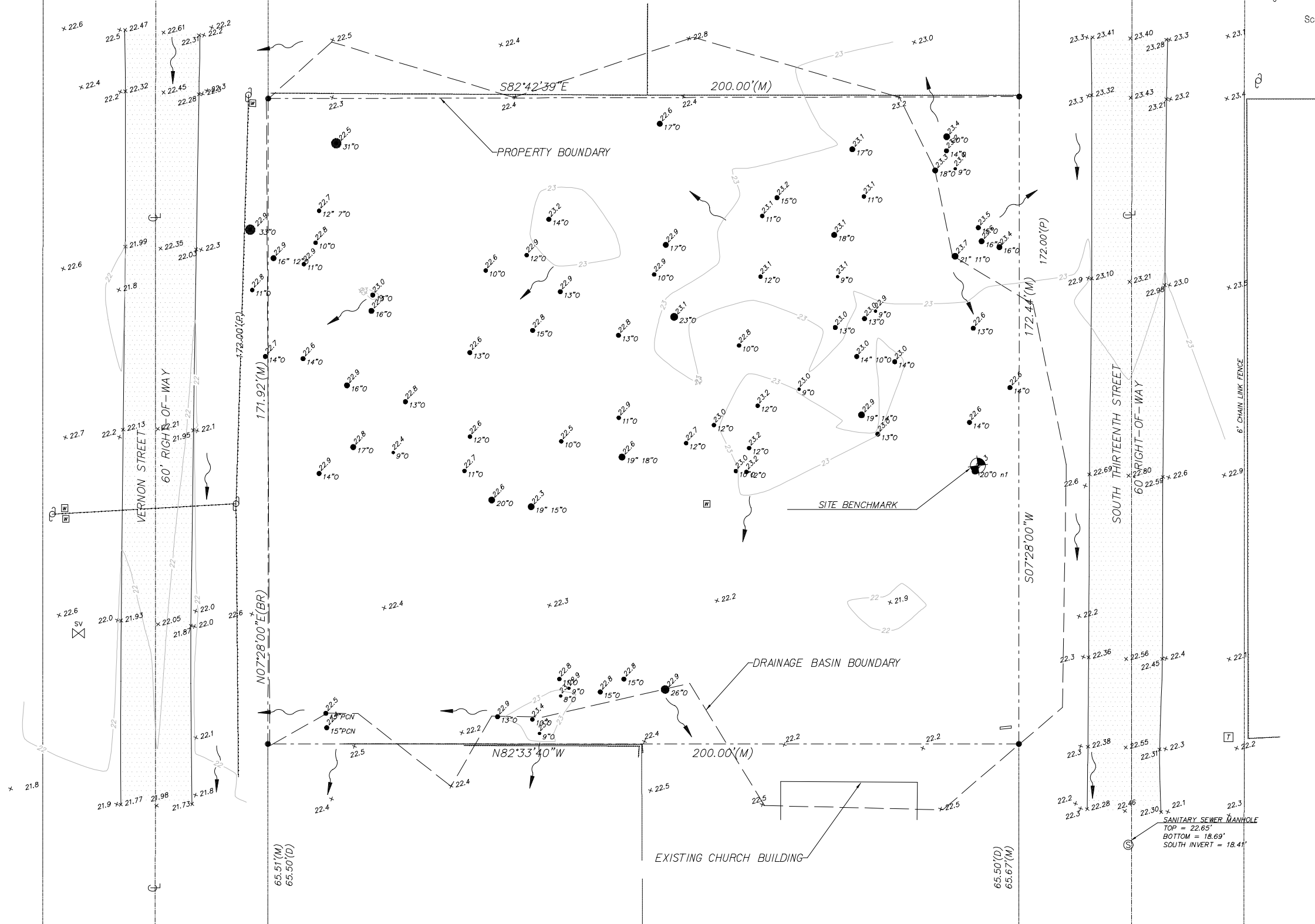
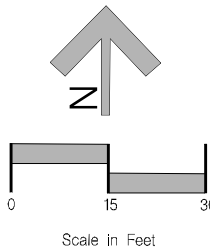
Revision Date: April 18, 2025



SITE LOCATION MAP



GENERAL NOTES										INDEX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SITE / GEOMETRY										WATER NOTES										SHEET	DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
1.ALL WORK SHALL BE PERFORMED IN A SAFE MANNER,ALL SAFETY RULES AND GUIDELINES OF O.S.H.A.SHALL BE FOLLOWED,THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES,AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT.ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A.REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK. 2.THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS,EITHER SURFACE OR SUBSURFACE,WHICH MAY AFFECT THE WORK TO BE PERFORMED,AND THE EQUIPMENT,LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.THE CONTRACTOR IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION,AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.ALL COSTS ASSOCIATED WITH PRELIMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 3.ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER. 4.ELEVATIONS ARE BASED ON NAVD 1988. 5.TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY:MANZIE & DRAKE LAND SURVEYORS (904-491-5700) 6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING,RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT. 7.THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR. 8.THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCHEDULE.THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS.IN THE EVENT OF ANY CONFLICT WHATSOEVER,THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD,AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. 9."AS-BUILT" DRAWINGS - AS-BUILTS ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE,IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION,FIELD LOCATIONS,CERTIFICATION,AND SUBMITTAL OF "AS-BUILT" DRAWINGS. 10."AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR.RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER. 11.THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS,IF A MONUMENT IS DISTURBED,THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT. 12.ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS. 13.ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER. 14.ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED. 15.THE LOCATION OF ALL EXISTING UTILITIES,STRUCTURES,AND IMPROVEMENTS ON THE DRAWINGS ARE BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED.THE LOCATIONS ARE APPROXIMATE.THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION,IF THE LOCATIONS SHOWN ARE CONTRARY TO ACTUAL FIELD LOCATIONS,THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY.THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION.THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS.PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION,THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS,AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL CONNECT. 16.THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS,FOR REVIEW AND APPROVAL,PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE. 17.UNSUITABLE MATERIALS UNDER WATER,SEWER,OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).										18.ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. 19.WHEN DEWATERING CAPACITY REQUIRES A PERMIT (CUP),IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST.JOHNS RIVER WATER MANAGEMENT DISTRICT. 20.WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY HAZARD.THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.WHERE PARALLEL WATER AND SEWER MAINS HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION,20 FOOT LENGTHS OF C900 (DR18) WATER QUALITY PIPE SHALL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS.THE PIPES SHALL BE PLACED IN SEPARATE TRENCHES WITH THE WATER MAIN AT LEAST 18 INCHES ABOVE THE SEWER. 21.WATER MAINS CROSSING SANITARY HAZARDS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.WHERE WATER AND SEWER MAINS CROSS WITH BETWEEN 18 INCHES AND 6 INCHES OF VERTICAL CLEARANCE,A 20 FOOT SECTION OF C900 (DR18) WATER QUALITY PIPE SHALL BE CENTERED ON THE POINT OF THE CROSSING.THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION.THE MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES IS TO BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. 22.NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE. 23.BLANK 24.TRACER WIRE SHALL BE PROVIDED ON ALL WATER MAINS AND FORCE MAINS.TRACER WIRE SHALL BE A MINIMUM OF 14 GAUGE SOLID COPPER WIRE,COATED,AND SUITABLE FOR BURIAL,WIRE SHALL BE ATTACHED DIRECTLY TO TOP OF PIPE AND BROUGHT INTO EACH VALVE BOX AND COILED TO ALLOW FOR EASY ACCESS AND EXTENSION ABOVE FINISHED GRADE FOR ATTACHMENT OF LOCATING EQUIPMENT. 25.ALL PIPE LENGTHS ARE APPROXIMATE DIMENSIONS,ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH TYPICAL SECTIONS AND DETAILS AS SHOWN ON THE MISCELLANEOUS DETAILS SHEET AND IN ACCORDANCE WITH THE SPECIFICATIONS. 26.ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. 27.GRADES SHOWN ON PLANS ARE EDGE OF PAVEMENT FINISHED GRADES UNLESS OTHERWISE NOTED. 28.SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS,THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. 29.ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFICALLY STATED. 30.THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT-LODEN RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE.EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS,RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED IMMEDIATELY TO REDUCE THE POTENTIAL FOR FURTHER SOIL EROSION. 31.ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CITY OF FERNANDINA BEACH BEFORE COMMENCING WORK. 32.MINIMUM COVER OVER PIPES SHALL BE 36"UNLESS OTHERWISE INDICATED. 33.ALL UNDERGROUND UTILITY COMPANIES SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. 34.IN ADDITION TO THE SPECIFICATIONS AND DETAILS PROVIDED FOR THIS CONTRACT,THE CITY OF FERNANDINA BEACH STANDARD DETAILS AND SPECIFICATIONS (LATEST REVISION) SHALL ALSO BE USED FOR ANY ITEMS NOT COVERED.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A SET OF STANDARD DETAILS AND SPECIFICATIONS FROM THE CITY OF FERNANDINA BEACH. 35.BACKFILL MATERIAL SHALL BE COMPACTED TO 100% (1:2%) PER CITY OF FERNANDINA BEACH REQUIREMENTS UNDER EXISTING AND PROPOSED ROADWAYS. 36.NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. 37.STATIONING REFERS TO THE CENTERLINE OF THE ROADWAY EXCEPT AS NOTED ON PLANS,WHERE PAVEMENT SPLITS, THE STATIONING FOLLOWS THE INSIDE EDGE OF PAVEMENT UNTIL ROADWAY TRANSITIONS BACK TO THE TYPICAL ROADWAY SECTION 38.ALL CONSTRUCTION,MATERIAL,AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH THE CITY OF FERNANDINA BEACH AND CITY OF FERNANDINA BEACH STANDARDS.										1.WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER UNDER PAVEMENT OR 30" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN.ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH,AND UNDER THE DIRECTION OF THE UTILITY COMPANY. 2.THURST RESTRAINTS ARE REQUIRED IN ACCORDANCE WITH UTHE UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 3.TIE RODS SHALL BE INSTALLED ON ALL VALVES LOCATED AT FITTINGS,ALL 10" AND LARGER VALVES AND LARGER SHALL REQUIRE (4) TIE RODS. MEGA LOG JOINT RESTRAINTS MAY BE USED IN LIEU OF THRUST BLOCKS OR TIE RODS. 4.UNLESS OTHERWISE NOTED,WATER MAINS ARE TO BE PVC DR18,DR-25,C-900 (BLUE),CLASS 150. 5.ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C-600.NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER MAINS HAVE BEEN PRESSURE TESTED, DISINFECTED,AND CLEARED FOR SERVICE.THE UTILITY COMPANY'S AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT. 6.THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES.THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.BOIL WATER NOTICES SHALL BE DELIVERED IN ACCORDANCE WITH THE UTILITY COMPANY BOIL WATER NOTICE REQUIREMENTS. 7.ALL MAIN FLUSHING POINTS SHALL BE SAME SIZE AS MAIN UP TO 8 INCH WATER MAINS.FLUSHING POINTS FOR MAINS LARGER THAN 8 INCH SHALL BE REDUCED TO 8 INCH. 8.ALL WATER MAINS SHALL BE DISINFECTED USING LIQUID CHLORINE OR HYPOCHLORITES IN ACCORDANCE TO AWWA C651-86. WATER IN MAIN SHALL MAINTAIN A CHLORINE RESIDUAL OF 50 MG/L FOR A MINIMUM OF 24 HOURS.WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE HAS BEEN PROVIDED BY THE APPROPRIATE REGULATING AGENCY AND UNITED WATER FLORIDA. 9.IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH,WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED,BASED ON APPROVAL OF THE PERMITTING AGENCY,DUCTILE IRON PIPE,FITTINGS,AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA.THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATER PROOF COVERING.THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL. 10.2" FLUSHING HYDRANTS SHALL BE INSTALLED AT ALL DEAD END LINES AND MAIN LINE STUB-OUTS. 11.A SEPARATE WATER SERVICE SHALL BE REQUIRED FOR EACH UNIT SERVED AND SHALL BE INSTALLED 3 FEET EITHER SIDE OF PROPERTY LINE.ALL WATER SERVICES SHALL BE MARKED WITH A "W" ETCHED ON THE CURB.ALL VALVES SHALL BE MARKED WITH A "V" ETCHED ON THE CURB. 12.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS. 13.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AT THE CONSUMER'S METER OR AT THE PROPERTY LINE WHEN A METER IS NOT USED. 14.BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A STATE OF FLORIDA LICENSED BACKFLOW TECHNICIAN,TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY PRIOR TO ACCEPTANCE OF INSTALLATION. 15.MAXIMUM DEPTH ON WATER SERVICES TO METER TO BE 36".										ALL PERMITTING AGENCIES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
										COVER SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										INDEX SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										PRE-DEVELOPMENT DRAINAGE PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										GEOMETRY PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										POST DEVELOPMENT DRAINAGE PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										TREE RETENTION/MITIGATION PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										FIRE NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										1.WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED,COMPLETED,AND IN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE.(NFPA 1,16.4.31.3,2009 EDITION)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										2.CLEARANCES OF SEVEN AND ONE HALF FEET (7 FT-6 IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT,WITH A FOUR FOOT CLEARANCE TO THE REAR OF THE HYDRANT.(NFPA 1,18.3.4.1,2009)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										3.NEW FIRE HYDRANT(S) SHALL BE INSTALLED SO THAT POSITIONED NOT MORE THAN 7 FEET 6 INCHES AWAY FROM CURB OR BERM OF THE ROADWAY.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										SEWER NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LINE ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24"TO 48"FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48"FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										5.A SEPARATE SEWER SERVICE (6"MIN) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										6.GRAVITY SEWER TO BE GREEN IN COLOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY.EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										9.FORCE MAIN MUST PASS A PRESSURE TEST PRIOR TO ACCEPTANCE OF THE SYSTEM.THE PRESSURE TEST SHALL COMPLY WITH AWWA C-600 SECTION 4J STANDARD FOR HYDROSTATIC TESTING,PRESSURE TEST MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED UTILITY COMPANY REPRESENTATIVE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										10.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM),GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18,JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										11.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										12.NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										13.ALL MANHOLES TO HAVE MINIMUM 24"HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										14.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										15.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										16.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM.TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING,TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER,NO LEAKAGE ALLOWED IN SYSTEM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										17.RESTRAINT JOINTS TO BE USED THROUGHOUT ON FORCE MAIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										18. ALL FORCE MAIN TO BE PVC (DR-18)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
LEGEND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
---------- EXISTING VALVE ----- WM ----- EXISTING WATER LINE ----- SAN ----- EXISTING SANITARY SEWER EXISTING FIRE HYDRANT ----- SAN ----- PROPOSED SANITARY SEWER ----- WM ----- PROPOSED WATER LINE PROPOSED FIRE HYDRANT ----- EXISTING EDGE OF PAVEMENT ----- EXISTING PROPERTY LINE										15.3 PROPOSED SPOT ELEVATION S-5 DRAINAGE STRUCTURE P-1 PIPE ----- 15.0 ----- PROPOSED CONTOUR ----- PROPOSED EDGE OF PAVEMENT ----- PROPOSED PROPERTY LINE ----- PROPOSED R.O.W. LINE ----- 16 ----- EXISTING CONTOUR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
<table><tr><td>11</td><td></td><td></td><td></td><td>Scale:</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td>Project Mgr:</td><td>AG</td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td>Designed by:</td><td>NG</td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td>Drawn by:</td><td>NG</td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td>QA/QC:</td><td>AB</td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>No.</td><td>By</td><td>Date</td><td></td><td>Revision</td><td></td><td></td><td></td><td></td><td></td></tr></table>										11				Scale:						10				Project Mgr:	AG					9				Designed by:	NG					8				Drawn by:	NG					7				QA/QC:	AB					6										5										4										3										2										1										No.	By	Date		Revision						<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
11				Scale:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
10				Project Mgr:	AG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
9				Designed by:	NG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
8				Drawn by:	NG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
7				QA/QC:	AB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
No.	By	Date		Revision																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													



855:FileNames\$5\$
5\$5\$Time\$5\$5\$

11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
No.	By	Date	Revision

Scale:
Project Mgr: AG
Designed by: NG
Drawn by: NG
QA/QC: AB

Gillette & Associates, Inc. 31 South 4th Street Fernandina Beach, FL 32034
Certificate of Authorization No. 9332
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"

G & A⁺
GILLETTE & ASSOCIATES, INC.
31 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819
FAX: (904) 261-9905

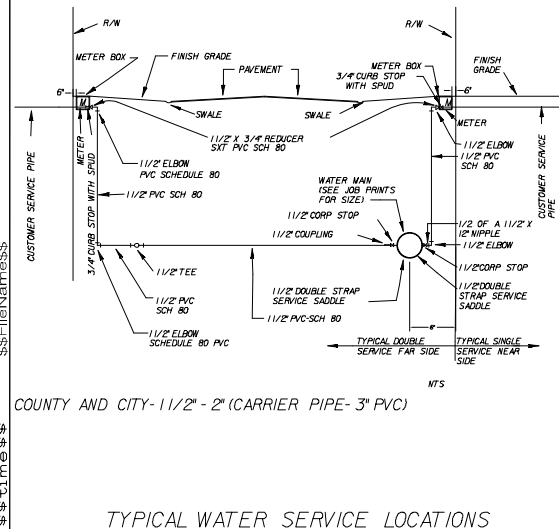
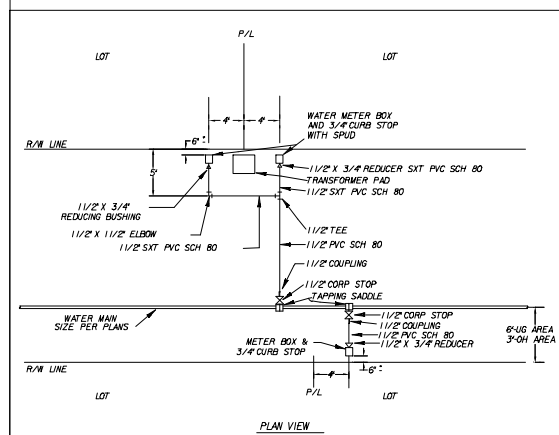
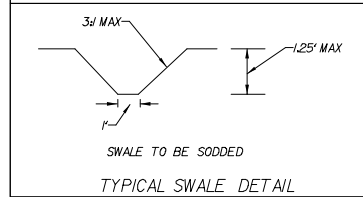
REPLAT LOT 8
BLOCK 233
6 TOWNHOMES

YANIE ROAD, LLC

PREDEVELOPMENT
DRAINAGE PLAN

**Nickey E
Gillette**
Registered Professional

Sheet No. **PRE-1**
Digitally signed by Nickey E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.04.17 15:38:07
Project No. **153887**
Date **April 2, 2025**

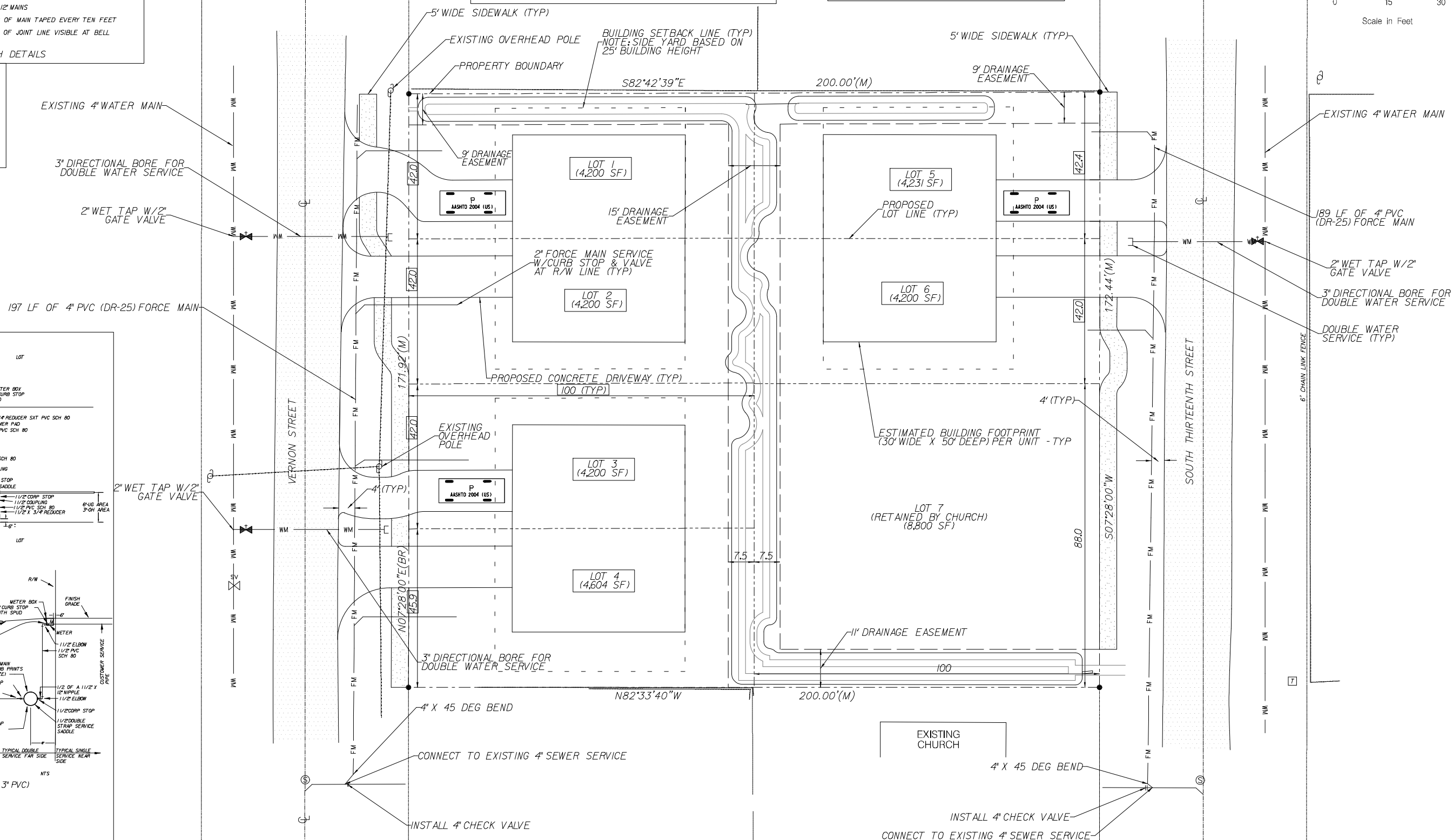
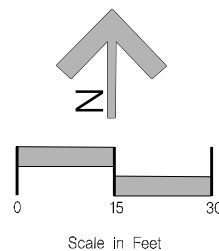


11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
No.	By	Date	Revision

NOTES:

1. 3.2 UNIT TOWNHOMES SHOWN (6 UNITS TOTAL)
2. LOTS MINIMUM 42' (W) X 100' (D)
3. LOT DENSITY CALC: 42' X 130' (INCLUDING HALF R/W) = 5,460 SF (7.98 DUA)
4. MAX DENSITY FOR MDR FLUM - 8 UNITS PER ACRE
5. ZONING R-2
6. ALL UNITS TO BE SOLD FEE SIMPLE
7. DRAINAGE AREAS TO BE MAINTAINED VIA COVENANTS AND RESTRICTIONS
8. SIDEWALKS TO BE INSTALLED AS EACH UNIT IS CONSTRUCTED
9. SITE ACREAGE - 0.79 AC
10. PID * 00-00-31800-0233-0080
11. EACH UNIT TO HAVE MINIMUM 1 CAR GARAGE

<u>IMPERVIOUS AREA CALCULATIONS:</u>			
<u>LOT</u>	<u>LOT AREA</u>	<u>IMPERVIOUS AREA</u>	<u>PERCENTAGE</u>
LOT 1	4,200 SF	1,890 SF	45.0 %
LOT 2	4,200 SF	1,860 SF	44.3 %
LOT 3	4,200 SF	1,861 SF	44.3 %
LOT 4	4,604 SF	1,860 SF	40.4 %
LOT 5	4,231 SF	1,860 SF	44.0 %
LOT 6	4,200 SF	1,860 SF	44.3 %



11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
No.	By	Date	Revision

Scale:	
Project Mgr: <u>AG</u>	Gillette & Associates, Inc. 31 South 4th Street Fernandina Beach, FL 32034
Designed by: <u>NG</u>	
Drawn by: <u>NG</u>	Certificate of Authorization No. 9332
QA/QC: <u>AB</u>	
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"	

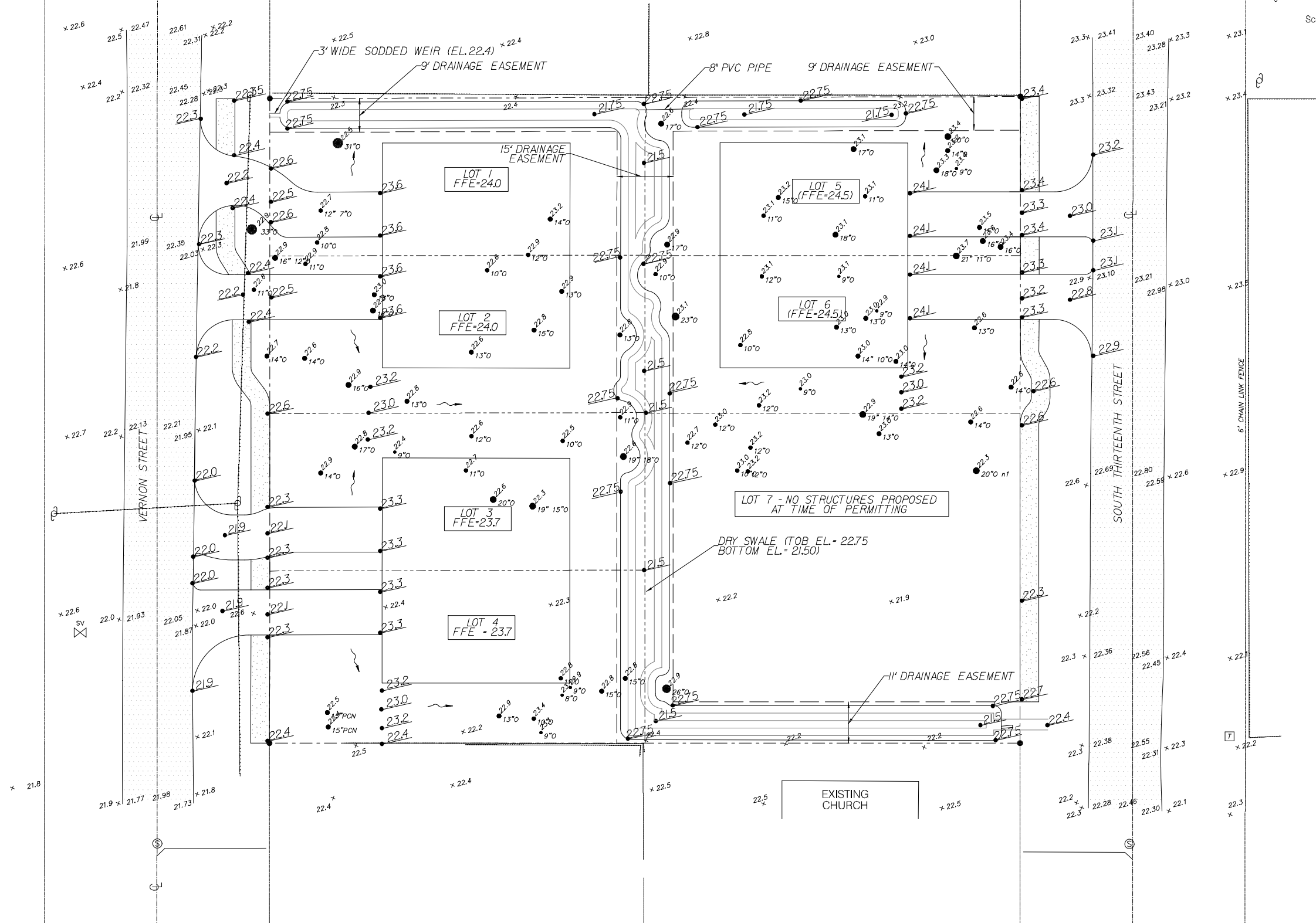
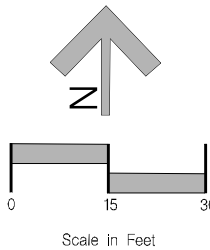
G & A[†]
GILLETTE & ASSOCIATES, INC.
31 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819
FAX: (904) 261-9905

REPLAT LOT 8
BLOCK 233
6 TOWNHOMES

YANIE ROAD, LLC

GEOMETRY PLAN

Nickey E Gillette
Digitally signed by Nicky E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.04.17 11:28:31 -0400
Project No. GE-7



\\fs1\lme\ss

11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
No.	By	Date	Revision

Scale:	
Project Mgr:	AG
Designed by:	NG
Drawn by:	NG
QA/QC:	AB
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"	

Gillette & Associates, Inc.
31 South 4th Street
Fernandina Beach, FL 32034
Certificate of Authorization No. 9332

G & A⁺
GILLETTE & ASSOCIATES, INC.
31 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819
FAX: (904) 261-9905

REPLAT LOT 8
BLOCK 233
6 TOWNHOMES

YANIE ROAD, LLC

POST DEVELOPMENT
DRAINAGE PLAN

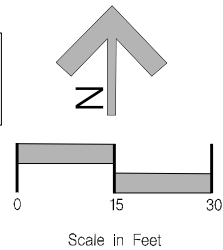
**Nickey E
Gillette**

Digitally signed by Nickey E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com
Date: 2025.04.17 11:28:45 -0400
Project No.
DR-1
5 of 6
APR 12, 2025
Registered Professional

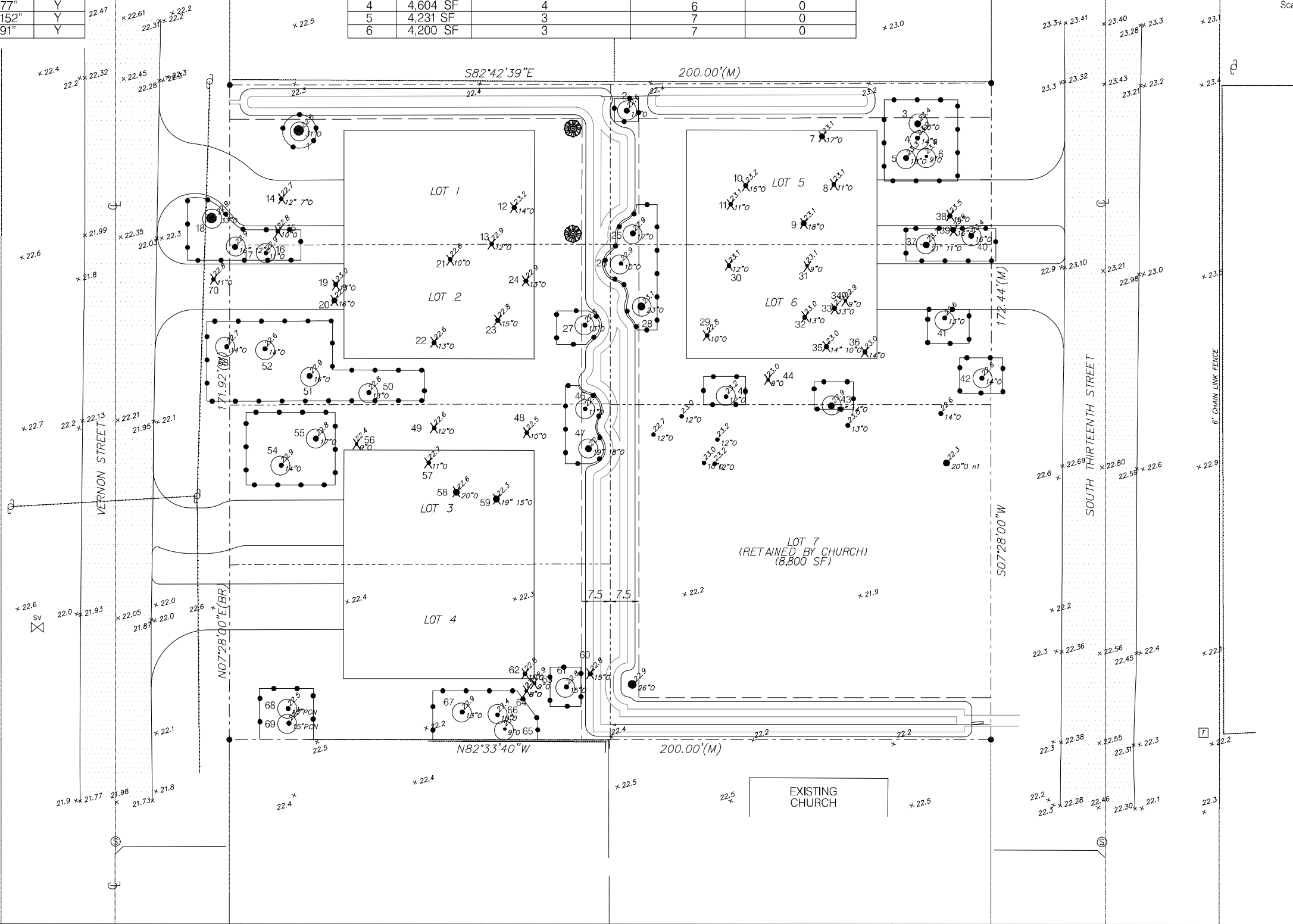
TREE MITIGATION CALCULATIONS						
LOT #	TREE ID REMOVED	DBH REMOVED	MITIGATION REQ'D (50% x DBH REMOVED)	TREE ID RETAINED	DBH RETAINED	PASSES (Y/N)
1	12,13,14,15	55"	28"	1,18	64"	Y
2	19-24,70	91"	46"	16,17,50-53,27	109"	Y
3	48-49,56-59	96"	48"	46-47,54-55	79"	Y
4	60,62-64	43"	22"	61,65-69	77"	Y
5	7-11,38-39	103"	52"	2-6,25,37,40	152"	Y
6	29-36,44	104"	52"	26,28,41-43,45	91"	Y

TREE PLANTING/RETENTION TABLE				
LOT #	LOT AREA	TREES REQ'D (2 TREES /2,500 SF)	TREES RETAINED	TREES PLANTED
1	4,200 SF	3	1	2
2	4,200 SF	3	4	0
3	4,200 SF	3	4	0
4	4,604 SF	4	6	0
5	4,231 SF	3	7	0
6	4,200 SF	3	7	0

2.5" SHADE TREE;
FLORIDA FRIENDLY SPECIES PER 4.05.03 LDC;
INSTALLATION PER SECTION 4.05.03 LDC



- TREE TO BE REMOVED (WITH ID #)
- TREE TO BE RETAINED (WITH ID #)
- TREE PROTECTION BARRIER



855FileNames\$5
\$\$\$\$Time\$\$\$\$

11						
10						
9						
8						
7						
6						
5						
4						
3						
2						
1						
No.	By	Date	Revision			

Scale:	
Project Mgr:	AG
Designed by:	NG
Drawn by:	NG
QA/QC:	AB
Certificate of Authorization No. 9332	
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"	

G & A⁺
GILLETTE & ASSOCIATES, INC.
31 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819
FAX: (904) 261-9905

**REPLAT LOT 8
BLOCK 233
6 TOWNHOMES**

YANIE ROAD, LLC

TREE RETENTION/
MITIGATION PLAN

Nickey E
Gillette

Digitally signed by Nicky E Gillette
DN: cn=Nickey E Gillette, c=US,
o=Unaffiliated,
email=nick@gilletteassociates.com,
Date: 2025.04.17 11:25:04 -0500

Sheet No.
TREE-1

6 of 6

Apr 17, 2025

Project No.

Registered Professional



May 15, 2025

Asa Gillette
31 S. 4th Street
Fernandina Beach, FL 32034
tricia@gilletteassociates.com
nick@gilletteassociates.com

Sent Via Email to Project Team

Applicant Name: (Agent Nick Gillette)

Project Description: 6 new Town-homes and replatted subdivision of lot 8, block 233 into 6 lots.

Location: Lot 8 Blk 233 S. 13th St

PIN(s): 00-00-31-1800-0233-0080

TRC Case Number: TRC 2025-0004

Mr. Gillette,

The City of Fernandina Beach received your request for a 2nd site plan review on Tuesday, April 15, 2025. A complete application was determined on Thursday, April 23, 2025. All submitted documents provided were routed to the Technical Review Committee (TRC). As part of this site plan review, minor comments have been provided, and they remain valid for six months from the date of issuance. You are required to submit response documents addressing each comment in a narrative form along with an amended site plan. Also, please be prepared to discuss and address any outstanding comments at the upcoming TRC meeting.

The site plan is scheduled for the formal TRC public meeting on Thursday, May 22, 2025 at 10 a.m. located at City Hall Commission Chambers 204 Ash Street.

If you have any questions, please contact us at TRCinfo@fbfl.city or 904-310-3480.

Sincerely,

Margaret Pearson On behalf of

Kelly N. Gibson, AICP
TRC Coordinator



REVIEW COMMENTS:

PLANNING

☒ The Planning Department has reviewed the submittal and noted the following comments:

Min shade tree requires have been met per sheet Tree-1. dn 5/15/25

Please show the building setbacks for each lot. Setback lines are shown but need to add proposed setback dimensions and setback requirements

OR

☐ All previous comments have been addressed, and the Department of Planning & Conservation approves issuance of a local development order

Name of Reviewer: Planning Staff

Today's Date: Thursday, May 15, 2025

BUILDING

☐ The Building Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Building Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

UTILITIES, STORMWATER, & STREETS

☐ The Public Works Departments has reviewed the submittal and noted the following comments:

OR



☒ All previous comments have been addressed, and the Public Works Department approves issuance of a local development order.

Name of Reviewer: Victoria Guadagnino

Today's Date: Wednesday, April 30, 2025

CODE ENFORCEMENT

☐ The Code Enforcement Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Code Enforcement Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

FIRE

☐ The Fire Department has reviewed the submittal and noted the following comments:

- Addresses will be assigned at or near the issuance of the LDO.

OR

☒ All previous comments have been addressed, and the Fire Department approves issuance of a local development order.

Name of Reviewer: Jason Higginbotham

Today's Date: Wednesday, April 30, 2025

Technical Review Committee: Application - Submission #15210

Date Submitted: 12/20/2024

Technical Review Committee: Application

USE THIS FORM TO To apply for review of site plans, preliminary subdivision plats, final subdivision plats, minor subdivisions, and amendments to previously issued local development orders, change of use, and nonresidential building expansions.

Fees

☐ Initial submittal + two resubmittals of full site plans. \$400 + 2% of the project construction cost (whichever is greater) for up to a maximum of \$4,400.

☐ 3rd and subsequent resubmittals. 1/2 of original application fees

☐ Engineering Review (Consultant Hourly Rate)

2025 Meeting Calendar

Application Deadline (4:30pm)	Dec 05 2024	Jan 02 2025	Feb 06 2025	Mar 06 2025	Apr 03 2025	May 01 2025	June 05 2025	July 03 2025	Aug 07 2025	Sept 04 2025	Oct 02 2025	Nov 06 2025	Dec 04 2025	Jan 01 2026
Meeting Date	Dec 19 2024	Jan 23 2025	Feb 27 2025	Mar 27 2025	Apr 24 2025	May 22 2025	June 26 2025	July 24 2025	Aug 28 2025	Sept 25 2025	Oct 23 2025	Nov 20 2025	Dec 18 2025	Jan 22 2026

In observance of Thanksgiving on November 27, the TRC Regular Meeting is moved up to November 20.

In observance of Christmas on December 25, the TRC Regular Meeting is moved up to December 18.

IMPORTANT NOTES

This application will be routed to the various departments for review of the applicable codes and design standards.

****Please note that, unless otherwise indicated, the TRC meetings are scheduled as the following:**

TRC Applications are reviewed at 10:00 AM on the 4th Thursdays of each month in City Hall Chambers (204 Ash Street).**

Please see the Land Development Code (LDC) for detailed information:

☐ Requirements for All Site Plans – see LDC section 11.01.04

☐ Requirements for Subdivision Plats – see LDC section 11.01.05

☐ Determination for Completeness & sufficiency – see LDC section 11.03.01

☐ Review and Compliance Report by the Technical Review Committee – see LDC Section 11.03.02

☐ Construction and Improvements – see LDC section 11.05.00

☐ Amendments to Local Development Orders – see LDC section 11.06.00

The LDC is available for review at www.fbfl.us/LDC

Application Requirements

- ☐ See Development Plan Submittal Checklist
- ☐ All applications are subject to a determination of completeness as required by Land Development Code section 11.03.01.
- ☐ A determination of completeness is a determination that all required documents and plans have been submitted, and whether all fees have been paid.
- ☐ A determination of completeness is not a determination of compliance with substantive standards and criteria.

Key Contacts
TRC will guide your application from start to finish, engaging other City departments as needed.



PROJECT INFORMATION

Submission Type*

Initial Submittal

NOTICE
3rd and all subsequent resubmittals will be charged a fee of 1/2 the original application fees.

DATE OF YOUR FIRST STEP MEETING (if you have not attended a First Step Meeting , return to the application page and choose the TRC First Step meeting application)*

6/13/2024

Case Number (if applicable)*

PROPERTY INFORMATION

[Property information can be found at the Nassau County Property Appraiser’s Website → Map Search](#)

Site Address*

2920 Bailey Road

City*	State*	Zip*
Fernandina Beach	FL	32034

Parcel ID #(s)

00-00-30-044B-0045-0020

Lot

Block

Subdivision

Zoning District

Future Land Use Designation*

Overlay District*

Size of Property (acres)*

Present Property Use*

Wetlands*

Flood Zone*

Coastal Construction Control Line (CCCL)*

OWNER OF RECORD

As recorded with the Nassau County Property Appraiser

First Name*

Last Name*

Company (if applicable)

Mailing Address*

City*

State*

Zip*

Telephone Number*

Email Address*

OWNER'S AGENT

If other than owner. If an agent will be representing the owner, an Owner's Authorization For Agent Representation form must be included.

First Name	Last Name
Cole	Menhennett

Company (if applicable)

CHW, an NV5 Company

Mailing Address

11801 Research Dr

City	State	Zip
Alachua	FL	32615

Telephone Number	Email Address
352-518-6514	cole.menhennett@nv5.com

PROJECT INFORMATION

Project Type*	Project Name
Site Plan Review	Christwalk Church Building Addition

Proposed Access Road*	Rd Maintenance Jurisdiction*
Bailey Rd., Queens Way	County Maintained

Project Estimated Cost*

\$200,000

Description of Request*

The project includes additions to the existing Christwalk Church building, associated sidewalks, driveway aprons, parking delineation, and utility improvements. At the time of submittal, the civil plans and supporting reports/memos are unable to be electronically signed and sealed due to software issues, but signed and sealed construction plans and supporting reports/memos will be provided to the City in all subsequent submittals.

Site Plan Review Checklist

- ☒ The names, address, telephone number, and email address of the person preparing the plan.
- ☒ The date of preparation and date(s) of any modifications, a north arrow, and a written and graphic scale.
- ☒ The legal description of the property, consistent with the required survey.
- ☒ A vicinity map showing the location of the property.
- ☒ The location of streams, bodies of water, natural features, roads, rights-of-way, street intersections, and paved areas within the boundaries of the property.
- ☐ The location of streams, bodies of water, dunes and dune systems, and other natural features within 250 feet of the boundaries of the property.
- ☐ The location of the mean high-water line, if such line is within the boundaries of the property.
- ☒ A topographic survey, soils report, grading plan, and an erosion control plan.
- ☒ A general floodplain map indicating areas subject to inundation and high groundwater levels up to a 100-year flood classification.
- ☐ A statement indicating the distances to schools and public safety facilities intended to serve the proposed development.
- ☐ The name, plat book, and page number of any recorded subdivision comprising all or part of the site.
- ☒ The location and use of any existing and proposed principal or accessory buildings and structures, showing proposed setbacks, building heights, and other dimensional requirements of the zoning district.
- ☒ Elevations of all proposed structures.
- ☒ The access points, driveway design, on-site parking, including required parking lot landscaping, internal circulation, sidewalks, and bicycle facilities.
- ☒ The location of existing and proposed utilities, utility services, and easements.
- ☒ A tree survey showing protected trees, proposed replacement trees, if required, and landscaping and buffering. (See Section 4.05.00.)
- ☒ A soil erosion and sediment control plan compliant with Section 3.01.04.
- ☐ For a PUD site plan, a detailed, written list and explanation of how the proposed PUD differs from any provision of this LDC applicable to the underlying zoning district.
- ☐ For site plans and PUD site plans where development is proposed in phases, the plans shall include phase lines and the following supporting information:
 - ☐ o Timeline for the development; and
 - ☒ o Benchmarks for monitoring the progress of construction of each phase regarding land clearing, soil stabilization and erosion control, installation of infrastructure, and installation of landscaping.
- ☒ A summary block containing:
 - ☒ o Land use category from the Future Land Use Map in the comprehensive plan;
 - ☒ o Zoning district;
 - ☒ o Total acreage;
 - ☒ o Total square footage for non-residential uses;
 - ☐ o Total density and number of units, proposed and permissible for residential uses;
 - ☒ o Impervious surface ratio calculation, proposed and permissible;
 - ☒ o Floor area ratio calculation, proposed and permissible;
 - ☒ o Total number of parking spaces, required and provided; and
 - ☒ o Number of trees required to be protected, number of trees remaining on the site, and number of trees to be planted.
- ☐ Additional plans, documents, or reports that are necessary to support the application shall be submitted. Such plans, documents, or reports may include, but are not limited to:
 - ☐ o Subdivision Plats (subdivision plats shall contain the information set forth in Section 11.01.05.)

- ☐ o Concurrency analysis (concurrency analysis reports shall contain the information set forth in Section 7.04.00.)
- ☐ o Traffic analysis reports (requirements for traffic analysis reports are set forth in Section 11.01.06.)
- ☒ o Parking studies (requirements for parking studies are set forth in Section 7.01.04.)
- ☒ o Stormwater management plans (requirements for stormwater management plans are set forth in Section 7.03.00.)
- ☐ o Environmental Impact Study (requirements for environmental impact studies are set forth by regional, State, and federal agencies with jurisdiction and in Chapter 3 of the LDC.)
- ☒ o Tree Protection Plan (Section 4.05.09.)
- ☒ o Landscape Plan (Section 4.05.00.)
- ☐ o Lighting Plan (Section 3.05.00.), Section 7.01.04.B)
- ☐ o Signage Plan (Section 5.03.00.)
- ☒ o Proof of Ownership – provide a legal description, Property Identification Number (PIN) and a copy of the warranty deed.
- ☐ Concurrency analysis reports shall contain the information set forth in Section 7.04.00. Requirements for traffic analysis reports are set forth in Section 11.01.06. Requirements for parking studies
- ☐ • Any development application for development proposed within the Airport Overlay Zone established for the Fernandina Beach Municipal Airport shall provide confirmation of notification to the FAA as r

School Concurrency

New residential development is required to demonstrate compliance with school concurrency as regulated in the City of Fernandina Beach through the City of Fernandina Beach's Comprehensive Plan Intergovernmental Coordination Element and the Interlocal Agreement Amendment for Public School Facility Planning adopted by the City on May 21, 2019. No new residential rezoning, preliminary plat, site plan or functional equivalent may be approved by the City unless the residential development is exempt from requirements outlined in Section 9.13 of the Amended Interlocal Agreement OR a School Concurrency Reservation Letter has been issued by the School Board indicating that adequate school facilities exist.

Certification*

- ☒ By signing below, I certify that the information contained in this application is true and correct to the best of my knowledge at the time of the application.
- ☒ I acknowledge that I understand and have complied with all of the submittal requirements and procedures.

Applicant First Name*

Cole

Applicant Last Name*

Menhennett

Today's Date*

12/20/2024

Upload Supporting Documentation*

AFF 241007 Christwalk Church - Submittal Package.pdf

Upload 2

MEMO 241219 Christwalk Church - Fire Flow.pdf

Upload 3

MEMO 241219 Christwalk Church - Meter Sizing.pdf

Upload 4

MEMO 241219 Christwalk Church - Stormwater Design Memo.pdf

Upload 5

PLANS 241218 Christwalk Church - Boundary and Topo.pdf

Upload 6

PLANS 241220 Christwalk Church - Landscape Plans
SS.pdf

Upload 7

PLANS 241220 Christwalk Church - Civil Plans.pdf



DEPARTMENT OF PLANNING & CONSERVATION

204 Ash Street | Fernandina Beach, FL 32034 | 904 310-3480 | www.fbfl.us/planning



OWNER'S AUTHORIZATION FOR AGENT REPRESENTATION

I /WE Christwalk Church of God Inc
(print name of property owner(s))

hereby authorize: CHW, an NV5 Company
(print name of agent)

to represent me/us in processing an application for: Site Plan
(type of application)

on our behalf. In authorizing the agent to represent me/us, I/we, as owner/owners, attest that the application is made in good faith and that any information contained in the application is accurate and complete.

[Signature]
(Signature of owner)

(Signature of owner)

J. BLAKE SNAPP
(Print name of owner)

(Print name of owner)

STATE OF FLORIDA

COUNTY OF NASSAU

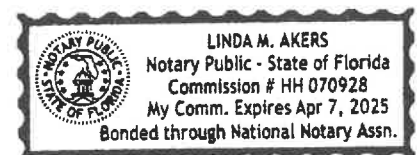
Sworn to (or affirmed) and subscribed before me by means of ☒ physical presence or ☐ online notarization, this 4TH day
of OCTOBER, 2024, by J. BLAKE SNAPP.

[Signature]
Notary Public

LINDA M. AKERS
Printed Name

APRIL 7, 2025
My Commission Expires

Personally Known ☒ OR Produced Identification ☐ ID Produced: ☐





City of Fernandina Beach

Office (904) 310-3400

TDD #711

FAX (904) 310-3459

Water & Sewer Connection Application

Date 12/18/2024 Office Use Only: Application #: _____ UB Account # _____

Name/Contractor/Company Blake Snapp, Christwalk Church of God, Inc.

Service Address 2920 Bailey Road, Fernandina Beach, Florida 32034 Lot # N/A Subdivision N/A

Billing Address 2920 Bailey Road, Fernandina Beach, Florida 32034

Office # (904) 261-7120 Cell # _____ Email pastor@christwalk.com

New Construction ☐ Existing ☒ Commercial ☐ Residential ☐ Location: City ☒ County ☐

Water service size requested: 3/4" ☐ 1" ☐ 2" ☒ 3" ☐ 4" ☐ *BACKFLOW RPZ TYPE REQUIRED ON ALL COMMERCIAL & IRRIGATION WATER SERVICES

Remarks: Project proposes the expansion of the existing church building. See attached utility plan.

Signature of Applicant: [Signature] Date: 12/18/2024

Print Name: Blake Snapp

OFFICE USE ONLY

Stormwater Rate

- ☐ Residential Single Family ☐ Residential Single-Family w/Prvt System ☐ Commercial no system
- ☐ Residential Multi-Family ☐ Residential Multi - Family w/Prvt System ☐ Commercial w/Prvt System
- ☐ Multi - Commercial ☐ Multi - Commercial w/Prvt System

WATER FEES

Customer connection charge 460-343.3040 (CITY \$1500 - COUNTY \$1875) \$ _____

Extension charges (Time & Material) 460-363.2320 \$ _____

Meter installation 460-343.3020 \$ _____

3/4" Meter (CITY \$250.00 - COUNTY \$312.50) / 1" Meter (CITY \$334.78 - COUNTY \$418.48) \$ _____

Equivalent Residential Units

(1 ERU = 350 gpd) City (ERU) _____ x \$ 520.00 County (ERU) _____ x \$ 650.00 \$ _____

Remarks: **Total Water Charges** \$ _____

SEWER FEES

Sewer Connection Fee (CITY \$1500 - COUNTY \$1875) \$ _____

Extension Cost (Time & Material) Equivalent Residential Units \$ _____

(1 ERU = 300 gpd) City (ERU) _____ x \$ 2,480.00 County (ERU) _____ x \$ 3,100.00 \$ _____

Remarks: **Total Sewer Charges** \$ _____

Total: \$ _____

Approval of Utilities Director: _____ Date: _____

General Warranty Deed

Made this February 27, 2017 A.D. By David Crisp, Michael Knight and Brad Akers as the current Trustees of the Church of God at Fernandina Beach, an unincorporated church whose address is: 2920 Bailey Rd, Fernandina Beach, Florida 32034, hereinafter called the grantor, to, by and through David Crisp, Michael Knight and Brad Akers, Trustees and constituting the Local Board of Trustees of Christwalk Church of God, Inc., a Florida corporation, hereinafter called the grantee or in the alternative Local Board of Trustees

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Nassau County, Florida, viz:

SEE ATTACHED EXHIBIT A

Parcel ID Number: 00-00-30-044B-0045-0020

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, unto the said Christwalk Church of God, Inc. by David Crisp, Michael Knight and Brad Akers, as Trustees and constituting the Local Board of Trustees of Christwalk Church of God, Inc. and to their successors in trust; for the exclusive use and benefit of the Church of God, Cleveland, Tennessee.

The said Local Board of Trustees shall hold title to, manage and control the said real estate for the general use and benefit of the Church of God, having its general headquarters in Cleveland, Tennessee, and for the particular use and benefit of the local congregation of the said Christwalk Church, Inc., in Nassau County.

The said Local Board of Trustees shall have full right, power and authority to sell, exchange, transfer and convey said property or to borrow money and pledge the said real estate for the repayment of the same and to execute all necessary deeds, conveyances and so forth, provided the proposition shall first be presented to a regular or called conference, of the said local church, presided over and approved by the state or territorial overseer of the Church of God (Cleveland, Tennessee), or one whom he may appoint, and the project approved by two-thirds of all members of the said local congregation present and voting. Certification is to be given in writing by the state/territorial overseer that this transaction is in the best interest of the Church of God (Cleveland, Tennessee), provided that he approves such action.

If the local congregation at the place above described shall at any time cease to function, or exist, or act contrary to Church of God polity, or separate from the Church of God (Cleveland, Tennessee), then said Local Board of Trustees shall hold title to said real estate, including personal property, for the Church of God (Cleveland, Tennessee) generally in the state where said real estate is located; and said Local Board of Trustees shall convey the said real estate upon demand to the State Board of Trustees of the Church of God (Cleveland, Tennessee) in said state, which said state board shall be authorized to use said real estate and personal property, or the proceeds derived from the sale of same (said state board being authorized to sell and convey the said real estate and personal property at any time after title is vested in it), for the use and benefit of the Church of God (Cleveland, Tennessee) in that state generally; or the founding of another Church of God (Cleveland, Tennessee) in the same state, or for the promotion of one already existing.

If at any time the Local Board of Trustees shall cease to exist or to perform its duties for any reason, then the state overseer of the state in which said real estate is located shall have the right to declare all offices on the said board vacant, and the State Board of Trustees of the Church of God for that state shall automatically then hold title to said property as evidenced by an appropriate instrument filed in the local county register of deeds.

The limitations set forth herein are those appearing in the *Minutes of the General Assembly of the Church of God* most currently in effect and said *Minutes* are expressly incorporated herein by reference.

And Grantors do, for their heirs, executors and administrators, covenant with the said Christwalk Church of God, Inc. (Church of God) by David Crisp, Michael Knight and Brad Akers, as Trustees, and constituting the Local Board of Trustees of the Christwalk Church of God, Inc. (Church of God), in Nassau County, their successors in trust for the exclusive use and benefit of the Church of God, Cleveland, Tennessee, and assigns, that they are lawfully seized in fee simple of said premises; that they are free from all encumbrances; and that they have a good right to sell and convey the same as aforesaid, that they will, and that their heirs, executors and administrators shall warrant and defend the same to the said Christwalk Church of God, Inc. (Church of God) by David Crisp, Michael Knight and Brad Akers, as Trustees, and constituting the Local Board of Trustees of the Christwalk Church of God, Inc. (Church of God) in Nassau

County, and their successors in trust for the exclusive use and benefit of the Church of God, Cleveland, Tennessee, and assigns forever, against the lawful claims of all persons.

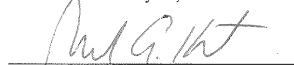
And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2016.

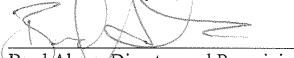
In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

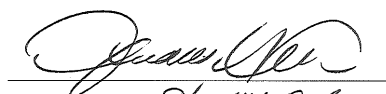
Church of God at Fernandina Beach by
and through its local board of
Trustees:

 (Seal)
David Crisp, Officer and Remaining Trustee for Church of God at
Fernandina Beach
Address: 2920 Bailey Rd, Fernandina Beach, FL 32034

 (Seal)
Michael Knight, Officer and Remaining Trustee for Church of
God at Fernandina Beach
Address: 2920 Bailey Rd, Fernandina Beach, FL 32034

 (Seal)
Brad Akers, Director and Remaining Trustee for Church of God at
Fernandina Beach
Address: 2920 Bailey Rd, Fernandina Beach, FL 32034

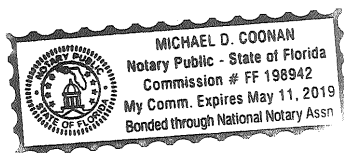

Witness Printed Name Michael D. Coonan


Witness Printed Name H. Nelson

State of Florida

County of DUVAL NASSAU

The foregoing instrument was acknowledged before me this 27 day of February, 2017, by David Crisp, Michael Knight and Brad Akers who is/are personally known to me or who has produced drivers license as identification.




Notary Public
Print Name: Michael D. Coonan
My Commission Expires: _____

Date: February 27, 2017
Property Address: 2920 Bailey Road
Fernandina Beach, Florida 32034
APN# 00-00-30-044B-0045-0020

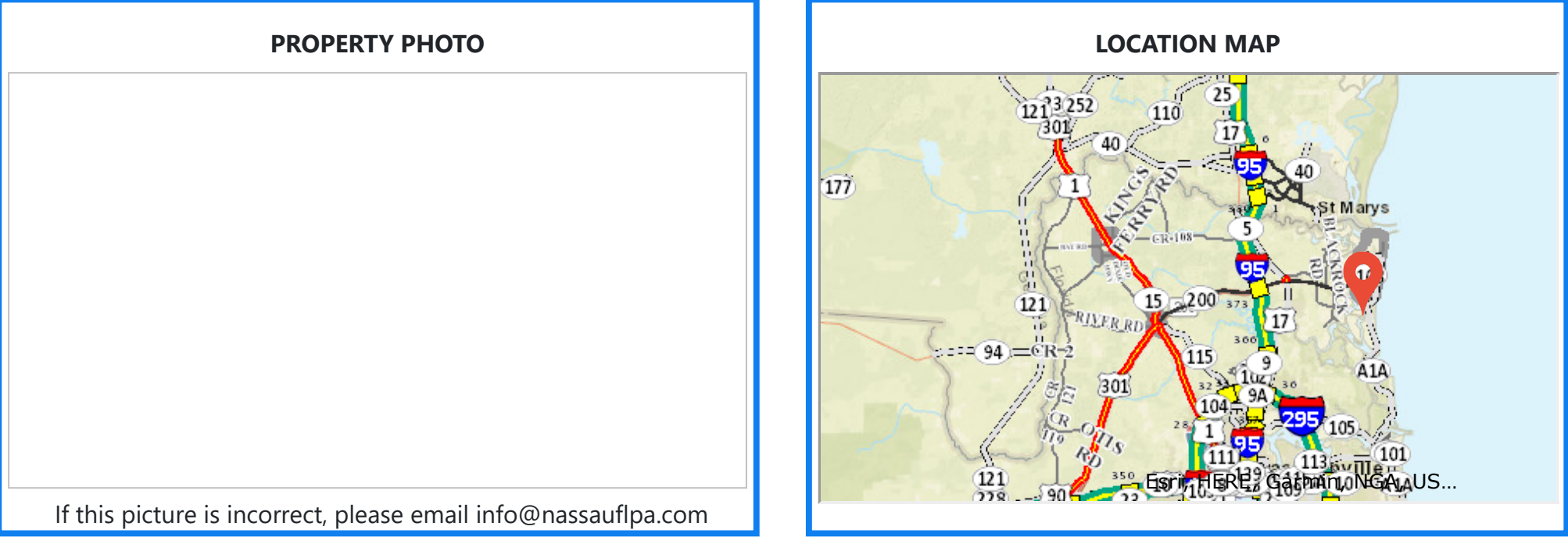
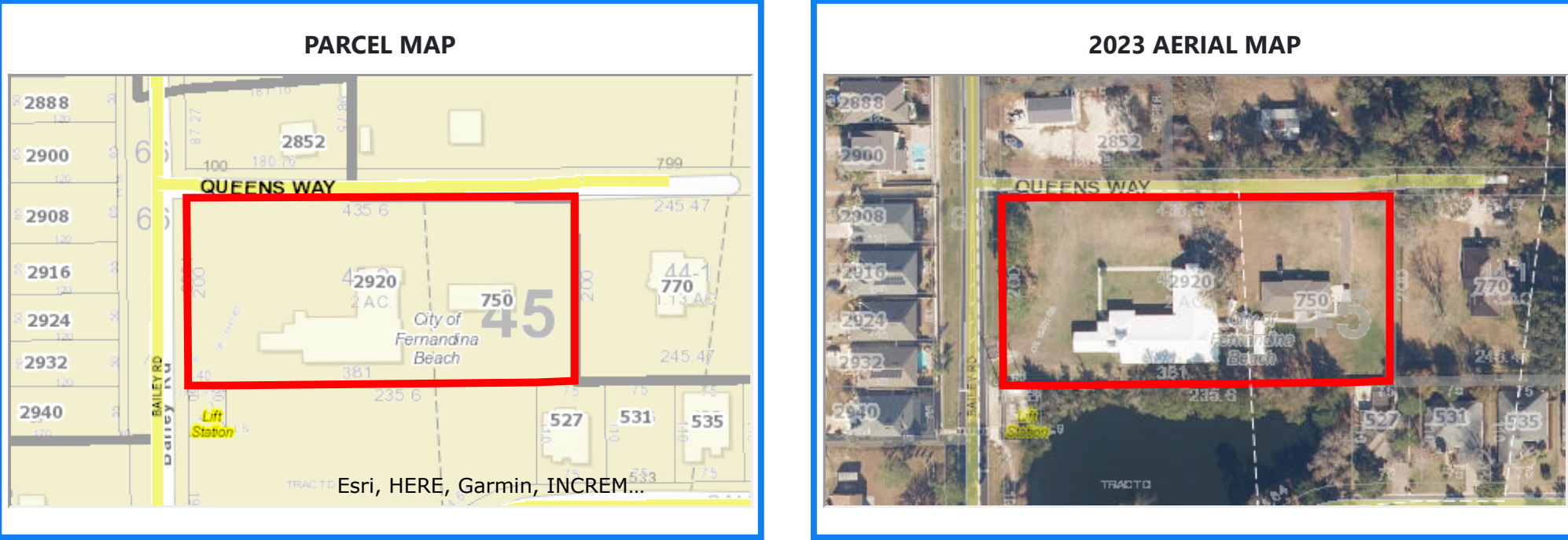
Exhibit "A"
LEGAL DESCRIPTION

A part of Lot Forty-five (45), Ocean Breeze Farms, as recorded in Plat Book 2, page 19, of the public records of Nassau County, Florida, and being more particularly described as follows:

For a point of beginning, commence at the Northwest corner of said Lot Forty-five (45); thence North 89°37'00" East along the North line of said Lot Forty-five (45), a distance of 435.60 feet; thence South 00°15'03" East, a distance of 200.0 feet; thence South 89°37'00" West parallel to the aforementioned Northerly line of Lot Forty-five (45), a distance of 435.60 feet to a point in the Easterly right of way line of Bailey Road (a 66.0 foot right of way, as now established), said line also being the West line of said Lot Forty-five (45), thence North 00°15'03" West along the West line of Lot Forty-five (45), and along the East right of way line of Bailey Road, a distance of 200.0 feet to the point of beginning.

Legal Description

PROPERTY INFORMATION		2024 Preliminary Values	
Parcel Number 00-00-30-044B-0045-0020		Land Value	\$200,000
Owner Name	CHRISTWALK CHURCH OF GOD INC	(+) Improved Value	\$1,118,723
Mailing Address	2920 BAILEY RD	(=) Market Value	\$1,318,723
		(-) Agricultural Classification	\$0
		(-) SOH or Non-Hx* Capped Savings	\$252,693
		(=) Assessed Value	\$1,066,030
Location Address	FERNANDINA BEACH, FL 32034	(-) Homestead	\$0
	2920 BAILEY RD	(-) Additional Exemptions	\$1,066,030
	FERNANDINA BEACH 32034	(=) School Taxable Value	\$0
Tax District	002 - FERNANDINA BEACH	(-) Non-School HX & Other Exempt Value	\$1,318,723
Milage	18.3806	(=) County Taxable Value	\$0
Homestead	Yes	Note - *10% Cap does not apply to School Taxable Value	
Property Usage	CHURCHES 007100		
Deed Acres	2.00		
Short Legal	PT OF LOT 45 IN OR 2103/1353 ESMT OR 1544/1483		



If this picture is incorrect, please email info@nassauflpa.com

BUILDING INFORMATION									
Type	Total Area	Heated Area	Bedrooms	Baths	Primary Exterior	Secondary Exterior	Heating	Cooling	Actual Year Built
CHURCH	9123	6364	0	0	COMMON BRK	AVERAGE	AIR DUCTED	FORCED AIR	1977
RES EXEMPT	2016	1761	0	2	COMMON BRK		AIR DUCTED	FORCED AIR	1979

MISCELLANEOUS INFORMATION			
Description	Dimensions L X W	Units	Year Built
CONCRETE A	0 X 0	360	1980
CONCRETE A	0 X 0	237	1984
CONCRETE A	14 X 5	70	2009

	CONCRETE A	0 X 0	536	1984
	SHEDS/PORT	17 X 13	221	1984

SALES INFORMATION							
Sale Date	Book Page	Price	Instr	Qual	Imp	Grantor	Grantee
2017-02-27	2103 / 1353	\$100	WD	U	I	CHURCH OF GOD AT FERNANDINA BEACH	CHRISTWALK CHURCH OF GOD INC
1975-01-01	201 / 446	\$7,000	WD	Q	V		



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Not For Profit Corporation
CHRISTWALK CHURCH OF GOD, INC.

Filing Information

Document Number	N09000010566
FEI/EIN Number	27-1603520
Date Filed	10/30/2009
State	FL
Status	ACTIVE

Principal Address

2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

Mailing Address

2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

Registered Agent Name & Address

Snapp, Johnathan Blake
2920 Bailey Road
FERNANDINA BEACH, FL 32034

Name Changed: 04/25/2023

Address Changed: 04/25/2023

Officer/Director Detail

Name & Address

Title officers

Crisp, David
2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

Title Director

AKERS, BRAD
2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

Title Pastor

Snapp, Blake

2920 BAILEY ROAD

FERNANDINA BEACH, FL 32034

Annual Reports

Report Year	Filed Date
2022	02/04/2022
2023	04/25/2023
2024	03/11/2024

Document Images

03/11/2024 -- ANNUAL REPORT	View image in PDF format
04/25/2023 -- ANNUAL REPORT	View image in PDF format
02/04/2022 -- ANNUAL REPORT	View image in PDF format
04/20/2021 -- ANNUAL REPORT	View image in PDF format
01/26/2020 -- ANNUAL REPORT	View image in PDF format
02/06/2019 -- ANNUAL REPORT	View image in PDF format
01/17/2018 -- ANNUAL REPORT	View image in PDF format
01/24/2017 -- ANNUAL REPORT	View image in PDF format
03/14/2016 -- ANNUAL REPORT	View image in PDF format
01/13/2015 -- ANNUAL REPORT	View image in PDF format
02/10/2014 -- ANNUAL REPORT	View image in PDF format
01/30/2013 -- ANNUAL REPORT	View image in PDF format
01/30/2012 -- ANNUAL REPORT	View image in PDF format
01/11/2011 -- ANNUAL REPORT	View image in PDF format
01/25/2010 -- ANNUAL REPORT	View image in PDF format
10/30/2009 -- Domestic Non-Profit	View image in PDF format

MEMORANDUM

Christwalk Church – Fernandina Beach, FL

24-0244



To: Kelly Gibson, AICP, Deputy Planning Director, City of Fernandina Beach, FL

From: Planning Department, CHW, an NV5 Company

Date: October 22, 2024

RE: Christwalk Church – Parking Space Requirements

Parking Flexibility is addressed in Sec. 7.01.04(B) of the City of Fernandina Beach Land Development Code (LDC), noting that “minimum parking requirements, in certain circumstances, may result in excess provision of parking. Excess parking supply results in the inefficient use of land at the expense of additional landscaped areas, civic space, enhanced site design or building area...” Designing the Christwalk Church site to meet the “Assembly Places” minimum parking requirement would result in approximately 63 parking spaces when only a fraction of that number are needed on a daily basis.

The applicant requests to meet the **Minimum Parking Space** requirements in Sec. 7.01.04(A) through the “Office” use instead of “Assembly Places.” The primary use of the Christwalk Church site for 85% of the week (six days out of seven) is office and administration. The church Sanctuary holds services one day a week on Sundays, and the parking needs for this short-term swell of visitors can easily be met through designated overflow parking in existing grassed areas.

Minimum Parking Space Requirements are addressed in the table in section LDC 7.01.04(A) of the LDC. “Religious facilities” in general are grouped in a type of use or activity called “Assembly Places,” which also includes schools, auditoriums, arenas, civic centers, funeral homes, sanctuaries, and theaters, requiring 1 space per 4 seats. Typically, the assembly places listed in the table experience daily use, requiring that parking be available from 5 to 7 days a week. However, a church community like Christwalk Church holds services in the Sanctuary one day a week, reducing the necessity of having full parking available at all times.

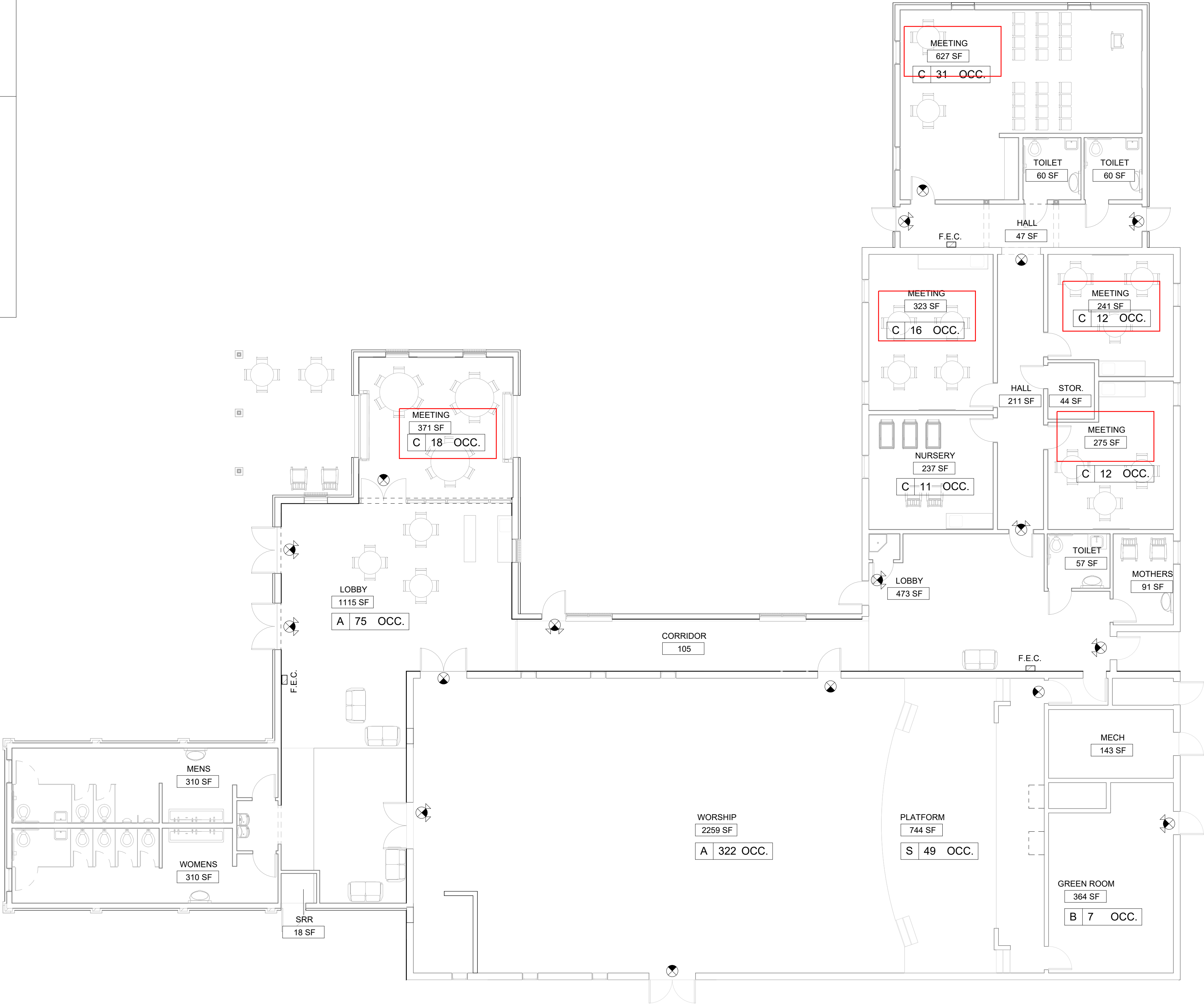
Table 7.01.04(A). Parking Space Requirements

Type of Use or Activity	Minimum Number of Spaces
Assembly places (religious facilities, funeral homes, schools, theaters, auditoriums, arenas, civic centers, and facilities with an auditorium, sanctuary, or gathering place, whether fixed seats or open area)	1 space per 4 seats
Offices (general, professional, or government)	1 space per 300 ft ² of gross floor area

The existing office space on the Christwalk Church site is separate from the main building and comprises 2,016 total square feet (1,761 heated area). After renovation, the main building will contain 1,837 square feet of meeting space that may be used during the week. Combined this is 3,853 square feet of office/administration space available on the church site. “Office” uses require 1 parking space for every 300 square feet of gross floor area, resulting in a requirement of **13 parking spaces** for Christwalk Church.

EGRESS SUMMARY	LIFE SAFETY LEGEND
'A' ASSEMBLY WITHOUT FIXED SEATS LOBBY 15 NET: 75 WORSHIP 7 NET: 322 'C' CLASSROOM 20 NET: 100 'B' BUSINESS: 7 TOTAL OCCUPANCY: 504	FIRE EXTINGUISHER CABINET F.E.C. EMERGENCY EXIT SIGN EMERGENCY EXIT SIGN WITH LIGHTS
NOTE: PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY A LIFE SAFETY FLOOR PLAN, A FACILITY MANAGEMENT AND OPERATIONAL PLAN AND AN EMERGENCY PLANNING AND PREPAREDNESS PLAN IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 IFC SHALL ALL BE IN PLACE.	
PLUMBING COUNTS PER TABLE 2902.1 504 OCCUPANCY / PLACES OF WORSHIP 252 PER FEMALE / MALE WATER CLOSETS: 1/150 MALE- 2 REQ ACTUAL: 8 1/75 FEMALE- 2 REQ ACTUAL: 8 3 FAMILY RESTROOMS LAVATORIES PER RR: 1/200- REQ 2 ACTUAL: 7 WATER FOUNTAINS: 1/1000- 1 SERVICE SINK: 1	FIRE SAFETY SUMMARY FIRE SUPPRESSION SYSTEM: SPRINKLER SYSTEM INSTALLED IN EXISTING AND NEW CONSTRUCTION SPRINKLER RISER ROOM LOCATED IN NEW CONSTRUCTION

Total Meeting Space = 371+323+275+241+627 = 1,837 SF



LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

1
A0-1

CONSULTANTS:

Pi Tech Inc.
1503 Newcastle Street
Suite 201
Brunswick, Georgia 31520
(904) 556-7087
dadams@pi-techinc.com

TLC Engineering Solutions
1301 Riverplace Blvd
Suite 650
Jacksonville, FL 32207
(904) 306-9111
james.wamsley@tlic-eng.com

CHRISTWALK CHURCH

10/1/2024

Renovation and Addition
2920 Bailey Rd, Fernandina Beach, FL 32034

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

SEAL:

PROJECT NO:

2207

DATE:

12/12/2024

LIFE SAFETY PLAN

SHEET NO:

A0-1

PRELIMINARY NOT FOR CONSTRUCTION

EGRESS SUMMARY	LIFE SAFETY LEGEND
'A' ASSEMBLY WITHOUT FIXED SEATS LOBBY 15 NET: 75 WORSHIP 7 NET: 322 'C' CLASSROOM 20 NET: 100 'B' BUSINESS: 7 TOTAL OCCUPANCY: 504	FIRE EXTINGUISHER CABINET F.E.C. EMERGENCY EXIT SIGN EMERGENCY EXIT SIGN WITH LIGHTS
NOTE: PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY A LIFE SAFETY FLOOR PLAN, A FACILITY MANAGEMENT AND OPERATIONAL PLAN AND AN EMERGENCY PLANNING AND PREPAREDNESS PLAN IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 IFC SHALL ALL BE IN PLACE.	
<u>PLUMBING COUNTS</u> PER TABLE 2902.1 504 OCCUPANCY / PLACES OF WORSHIP 252 PER FEMALE / MALE WATER CLOSETS: 1/150 MALE- 2 REQ ACTUAL: 8 1/75 FEMALE- 2 REQ ACTUAL: 8 3 FAMILY RESTROOMS LAVATORIES PER RR: 1/200- REQ 2 ACTUAL: 7 WATER FOUNTAINS: 1/1000- 1 SERVICE SINK: 1	<u>FIRE SAFETY SUMMARY</u> FIRE SUPPRESSION SYSTEM: SPRINKLER SYSTEM INSTALLED IN EXISTING AND NEW CONSTRUCTION SPRINKLER RISER ROOM LOCATED IN NEW CONSTRUCTION



LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

1
A0-1

PRELIMINARY NOT FOR
CONSTRUCTION

CONSULTANTS:

Pi Tech Inc.
1503 Newcastle Street
Suite 201
Brunswick, Georgia 31520
(904) 556-7087
dadams@pi-techinc.com

TLC Engineering Solutions
1301 Riverplace Blvd
Suite 650
Jacksonville, FL 32207
(904) 306-9111
james.wamsley@tlic-eng.com

CHRISTWALK CHURCH

10/1/2024

Renovation and Addition
2920 Bailey Rd, Fernandina Beach, FL 32034

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

SEAL:

PROJECT NO:

2207

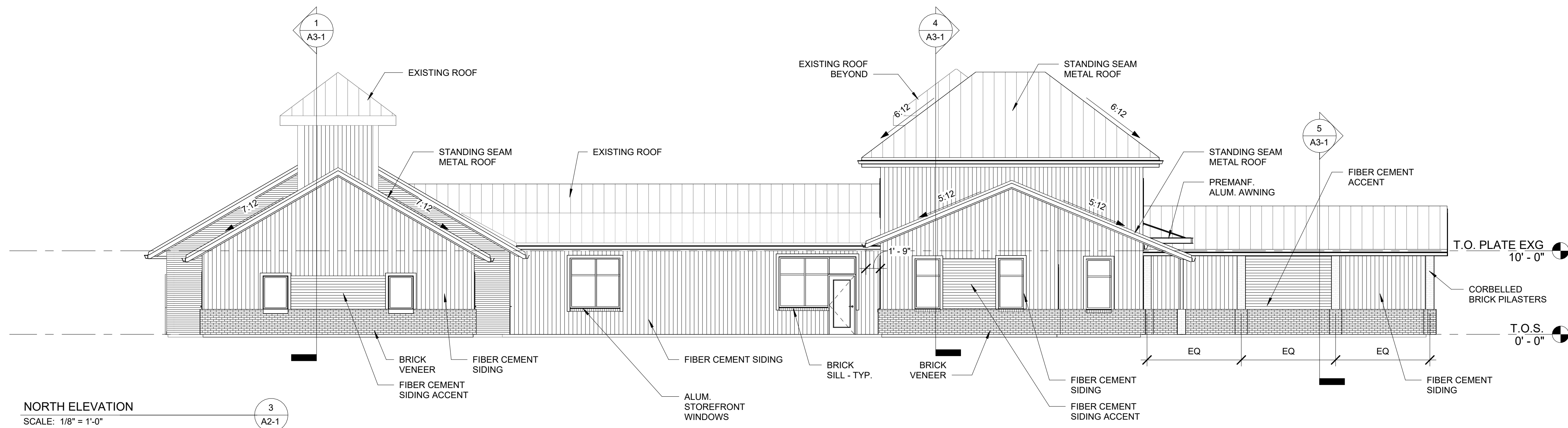
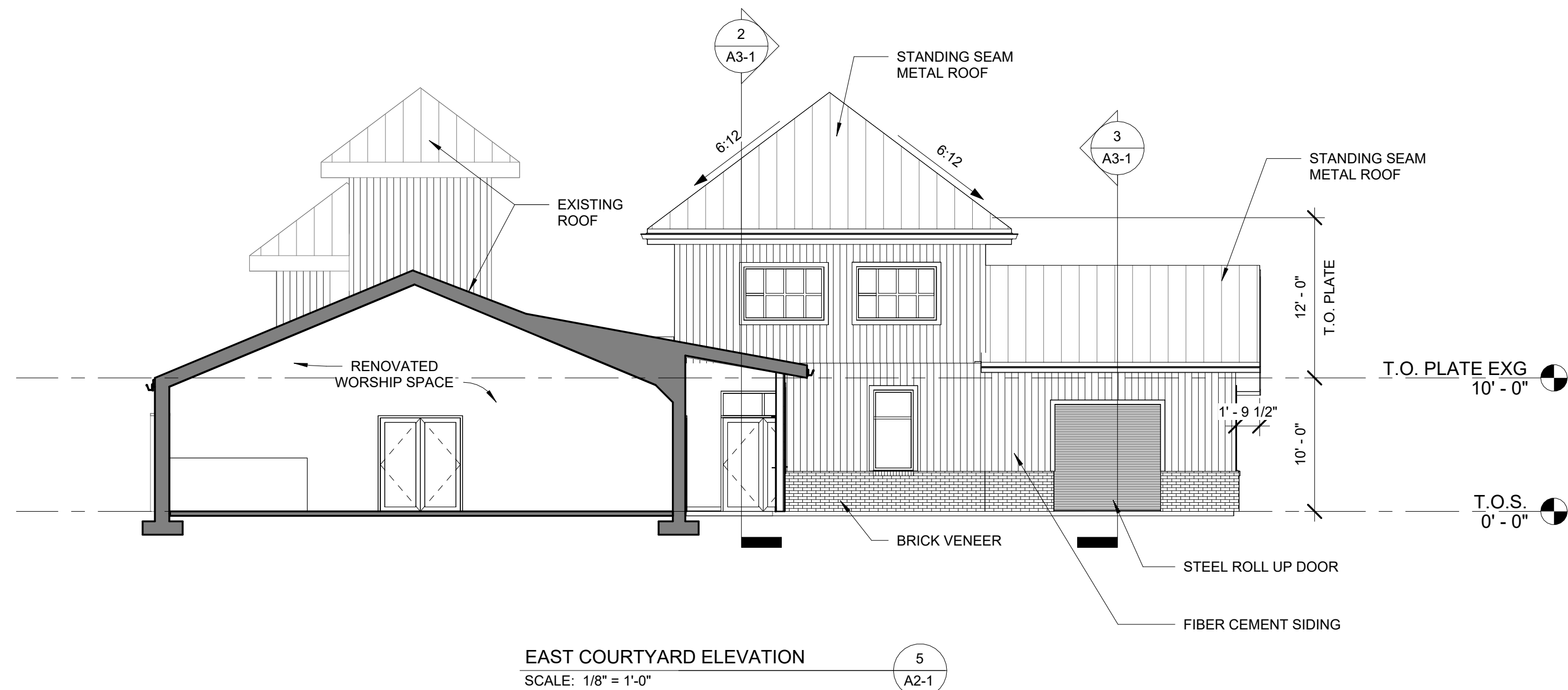
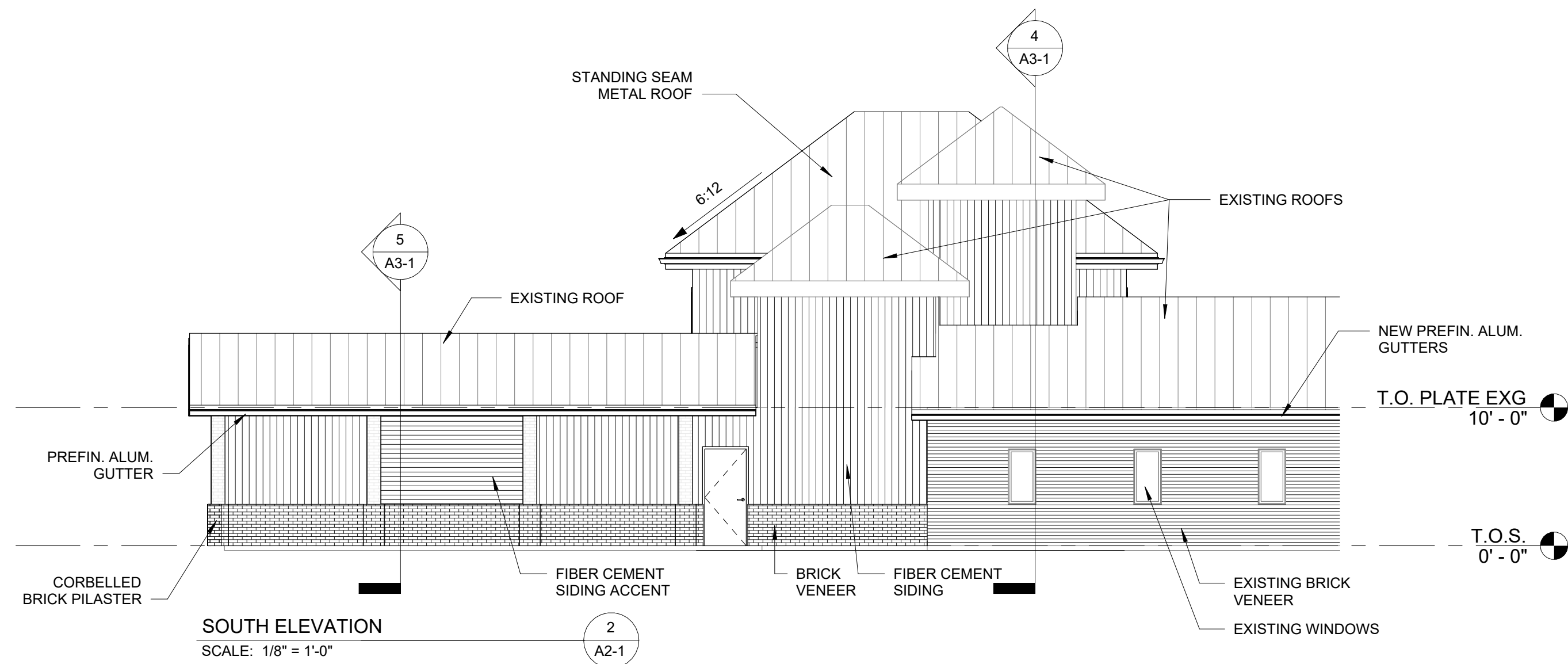
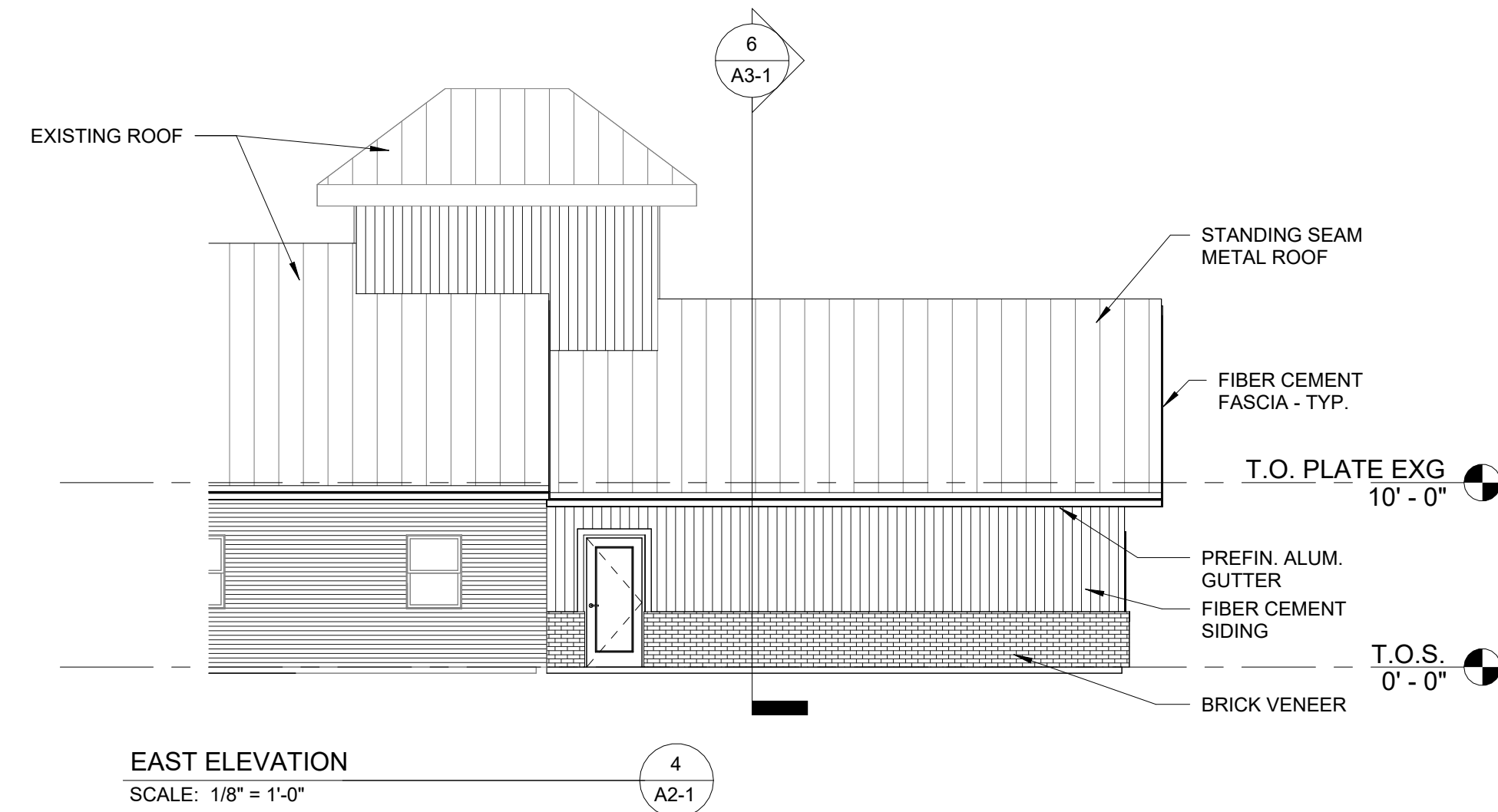
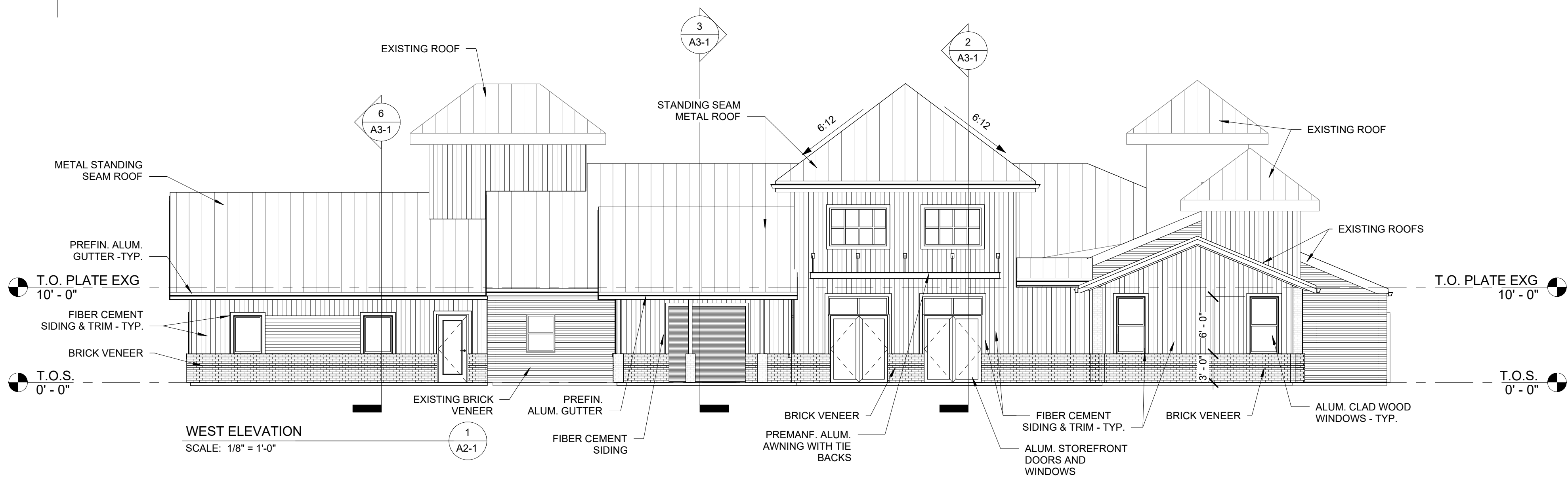
DATE:

12/12/2024

LIFE SAFETY
PLAN

SHEET NO:

A0-1



PRELIMINARY NOT FOR
CONSTRUCTION

REVISIONS	
NO.	DESCRIPTION
1	
2	
3	
4	

BOUNDARY AND TOPOGRAPHIC SURVEY
A PART OF LOT FORTY-FIVE (45), OCEAN BREEZE FARMS,
AS RECORDED IN PLAT BOOK "2", PAGE 19, BEING
SITUATED IN SECTION 5, TOWNSHIP 2 NORTH, RANGE 28 EAST,
CITY OF FERNANDINA BEACH, NASSAU COUNTY, FLORIDA

LEGAL DESCRIPTION: (OFFICIAL RECORDS BOOK 2103, PAGE 1353)

A PART OF LOT FORTY-FIVE (45), OCEAN BREEZE FARMS, AS RECORDED IN PLAT BOOK 2, PAGE 19, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

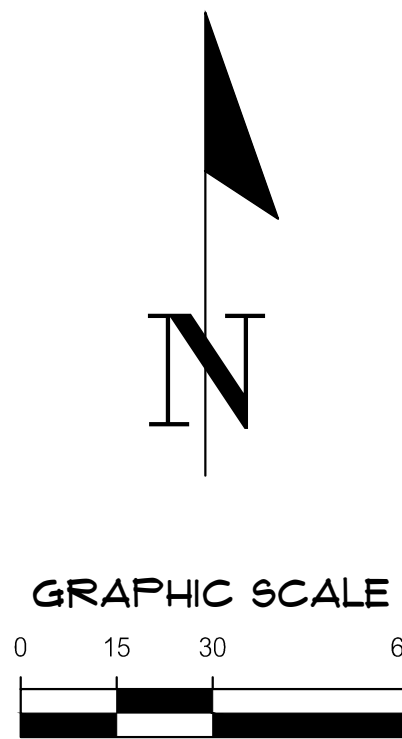
FOR A POINT OF BEGINNING, COMMENCE AT THE NORTHWEST CORNER OF SAID LOT FORTY-FIVE (45); THENCE NORTH 89°37'00" EAST ALONG THE NORTH LINE OF SAID LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET; THENCE SOUTH 00°15'03" EAST, A DISTANCE OF 200.0 FEET; THENCE SOUTH 89°37'00" WEST PARALLEL TO THE AFOREMENTIONED NORTHERLY LINE OF LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET TO A POINT IN THE EASTERLY RIGHT OF WAY LINE OF BAILEY ROAD (A 66.0 FOOT RIGHT OF WAY, AS NOW ESTABLISHED), SAID LINE ALSO BEING THE WEST LINE OF SAID LOT FORTY-FIVE (45), THENCE NORTH 00°15'03" WEST ALONG THE WEST LINE OF LOT FORTY-FIVE (45), AND ALONG THE EAST RIGHT OF WAY LINE OF BAILEY ROAD, A DISTANCE OF 200.0 FEET TO THE POINT OF BEGINNING.

FLOOD ZONE:

THIS PROPERTY IS LOCATED IN FEDERAL FLOOD ZONE "X". AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS INTERPOLATED FROM FEMA F.I.R.M. PANEL NO. 239 OF 510, COMMUNITY PANEL NO. 120172 0239 G, EFFECTIVE DATE: AUGUST 02, 2017.

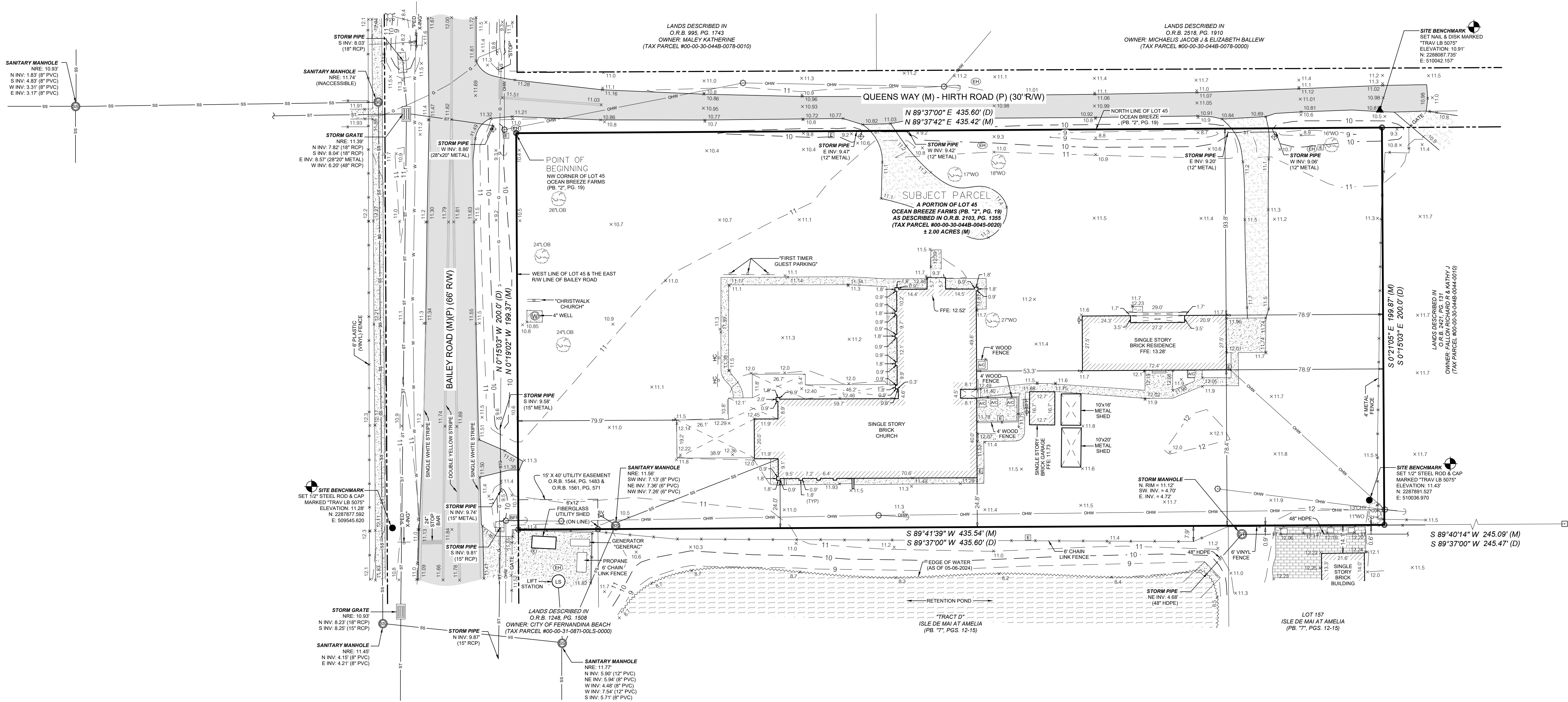
SURVEYOR'S NOTES:

- HORIZONTAL DATUM SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, FLORIDA EAST ZONE, NORTH AMERICAN DATUM 1983 2011 ADJUSTMENT (NAD 83 (2011)), DERIVED FROM GPS OBSERVATIONS, USING REAL TIME KINEMATIC METHODS, RECEIVING NETWORK CORRECTIONS FROM FLORIDA DEPARTMENT OF TRANSPORTATION'S (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
- VERTICAL DATUM SHOWN HEREON IS NORTH AMERICAN VERTICAL DATUM OF 1988 - NAVD83
- NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
- THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY ENCROACH.
- FENCING, SYMBOLS AND MONUMENTATION SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES ONLY AND MAY NOT BE SHOWN TO SCALE.
- IN THE OPINION OF THIS SURVEYOR, THE PERIMETER LINES AS SHOWN HEREON REPRESENT THE LOCATION OF THE BOUNDARY LINES OF THE SUBJECT PARCEL IN RELATION TO THE DESCRIPTION OF RECORD AND THOSE EXISTING LAND CORNERS FOUND TO BE ACCEPTABLE BY THIS SURVEYOR.
- THIS SURVEY WAS PRODUCED WITHOUT THE BENEFITS OF FURNISHED TITLE WORK. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND OR OWNERSHIP WERE FURNISHED TO THE SURVEYOR EXCEPT AS SHOWN, AND NO SEARCH OF THE PUBLIC RECORDS HAS BEEN DONE BY THE SURVEYOR.
- INFORMATION FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAP(S), SHOWN ON THIS MAP WAS CURRENT AS OF THE REFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE PERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED ON THE MOST CURRENT MAP.
- ADDITIONAL POINTS MAY BE FOUND BY TURNING ON THE SV-NODE* LAYERS IN THE SUPPLIED DIGITAL FILE.
- TOPOGRAPHIC INFORMATION SHOWN HEREON BASED ON GROUND SURVEY. CONTOURS SHOWN HEREON REFLECT 1-FOOT INTERVALS.



- LEGEND:
- (D) = DATA BASED ON RECORDED DEED
 - (M) = DATA BASED ON FIELD MEASUREMENTS
 - FEMA = FEDERAL EMERGENCY MANAGEMENT AGENCY
 - RW = RIGHT OF WAY
 - ID. = IDENTIFICATION
 - O.R.B. = OFFICIAL RECORDS BOOK
 - PG. = PAGE
 - PS. = PLAT BOOK
 - HC = HANDICAP
 - NRE = NORTH RIM ELEVATION
 - INV = INVERT
 - RCP = REINFORCED CONCRETE PIPE
 - HDPE = HIGH DENSITY POLYETHYLENE PIPE
 - PVC = POLYVINYL CHLORIDE PIPE
 - = FOUND 4"x4" CONCRETE MONUMENT (NO ID.)
 - = 1/2" FOUND IRON PIPE (NO ID.)
 - ⊗ = SET 5/8" FOUND IRON ROD (NO ID.)
 - = SET 5/8" STEEL ROD & CAP (TRAV LB 5075)
 - ⊕ = BACKFLOW PREVENTOR
 - ⊞ = ELECTRIC BOX
 - ⊟ = ELECTRIC HANDHOLE
 - ⊠ = ELECTRIC METER
 - ⊡ = FIRE HYDRANT
 - ⊢ = GUY ANCHOR
 - ⊣ = SIGN
 - ⊤ = SPIGOT

- ⊞ = STORM SEWER MANHOLE
- ⊞ = SANITARY SEWER MANHOLE
- ⊞ = SEWER VALVE
- ⊞ = WELL
- ⊞ = WOODEN POWER POLE
- ⊞ = WATER VALVE
- ⊞ = STORM INLET
- ⊞ = REFLECTOR POST
- ⊞ = TREE (SIZE AND TYPE AS NOTED)
- ⊞ = BENCHMARK
- 10. = CONTOUR LINE
- X 10.5 = SPOT ELEVATION (PERVIOUS)
- X 10.45 = SPOT ELEVATION (IMPERVIOUS)
- OHW— = OVERHEAD WIRE
- X— = FENCE (SIZE/TYPE NOTED)
- W— = UNDERGROUND WATER LINE
- G— = UNDERGROUND GAS LINE
- ST— = UNDERGROUND STORM PIPE
- SS— = UNDERGROUND SANITARY PIPE
- ▨ = GRAVEL SURFACE
- ▩ = ASPHALT SURFACE
- ▩ = CONCRETE SURFACE
- ▩ = CONCRETE SURFACE



8465 Merchants Way, Ste. 102
Jacksonville, FL 32222
(904) 619-6521
www.chiv-inc.com
EST. 1988
AN INWIS COMPANY
FLORIDA
CA-5075

CHIV
AN INWIS COMPANY

REPLY SCALE
BASED ON THE SCALE ON
ORIGINAL DRAWING
DO NOT USE FOR ANY
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

SCALE
1" = 30'

TECHNICAL: AARON H. HICKMAN
NAD
CROSS CHECK: MW
REVISION DATE: 05-05-2024
CHECKED BY: AHH
PROJECT NUMBER: 24-0244
FIELD BOOK & PAGE: 45/63-65
Professional Surveyor & Mapper Fla. License No. 0791

THIS MAP PREPARED BY:
Certificate of Authorization No. LB 5075
NOT VALID WITHOUT THE ORIGINAL
SIGNATURE AND SEAL OR ELECTRONIC
DIGITAL SIGNATURE OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

SHEET NO.:
1 OF 1

CHRISTWALK CHURCH OF GOD, INC.

Stormwater Report

Christwalk Church



Date: 4/4/2025
PN#24-0244
PM: Travis J. Hastay
FL PE No. 84295

Prepared For: Christwalk Church of God, Inc.

Submitted To: City of Fernandina Beach

Address: 2920 Bailey Road
Fernandina Beach, FL 32034

N|V|5

Engineer's Certification Statement

I hereby certify that the design of the stormwater management systems for the project known as Christwalk Church has been designed substantially in accordance with the City of Fernandina Beach applicable rules and regulations.

Travis J. Hastay
State of Florida
Professional Engineer, License
No. 84295

This item has been digitally
signed and sealed by Travis J.
Hastay, PE, on the date
indicated here.

Printed copies of this document
are not considered signed and
sealed and the signature must
be verified on any electronic
copies.

Travis J Hastay

Digitally signed by
Travis J Hastay
DN: CN=Travis J
Hastay, O=Travis J.
Hastay, L=Gainesville,
S=Florida, C=US
Date: 2025.04.04
11:42:17-04'00'

Travis J. Hastay, FL PE No. 84295

Date

Contents	Page
Introduction.....	1
Design Criteria	1
Site Characteristics.....	1
Drainage Analysis.....	2
Summary and Conclusions	3

Figures

- 1 Project Location Map
- 2 USGS Quadrangle Map
- 3 Aerial Map
- 4 NRCS Soils Map
- 5 FEMA Flood Map
- 6 Pre-Development Drainage Map
- 7 Post-Development Drainage Map

Appendices

- A. Drainage Calculations and Computer Model Output
- B. Operation and Maintenance Requirements and Erosion and Sedimentation Control Requirements
- C. Geotechnical Report

Introduction

The Christwalk Church project proposes an addition to the existing church building, as well as additional sidewalks, driveways aprons, ADA parking, and utility improvements. The total proposed site area is ± 2.00 acres. The project is located at 2920 Bailey Rd, Fernandina Beach, FL 32034.

The project site is located on a portion of tax parcel #00-00-30-044B-0045-0020, according to the Nassau County Property Appraiser's website. Figure 1 provides a Location Map, and Figure 2 depicts the site on a portion of the Fernandina Beach USGS Quadrangle Map. The site is located in Section 5, Township 2 North, Range 28 East in Nassau County, Florida.

Refer to the accompanying engineering plans for details about the proposed construction regarding this project.

Design Criteria

The design criteria for the proposed Low Impact Design (LID) Swale are based upon the criteria set forth by the City of Fernandina Beach (CoFB) for a dry retention system design in an open watershed. The criteria are as follows:

1. Provide Peak Discharge Rate Attenuation: Attenuate the post-development peak discharge rates to be less than the pre-development peak discharge rates for the 10 year – 24 hour storm event.

CoFB also requires that best management practices be employed to control erosion and sedimentation and that an operation and maintenance entity be established.

Site Characteristics

Physical characteristics of the site are described in the following sections. Additional details are provided in the accompanying Engineering plans.

Site Topography

The existing Christwalk Church site is developed with a church sanctuary building, church offices building, sidewalks, storage sheds, and grass parking areas. The site is bordered by Queens Way to the North, Residential homes to the east, a wet detention pond to the south, and Bailey Road to the west. Elevations across the site range from $\pm 12.1'$ adjacent to the existing structures down to $\pm 8.7'$ in the Northeast corner.

Pre-Development Drainage

Pre-Development drainage on the site consists of one watershed: Pre-Development Watershed #1 (Pre DA-1). Runoff from Pre DA-1 flows via sheet flow and shallow concentrated flow into the

existing conveyance swale in the Queens Way right-of-way. The swale flows from west to east and ultimately discharges into Jackson Creek, and ultimately into the Amelia River.

Post-Development Drainage

Post-Development drainage on the site consists of two watersheds: Post-Development Watershed #1 (Post DA-1) and Post-Development Watershed #2 (Post DA-2). Post DA-1 flows via sheet flow and shallow concentrated flow into the improved conveyance swale in the Queens Way right-of-way, and ultimately into Jacksons Creek as in the pre-development condition. Post DA-2 features a proposed Low Impact Design (LID) Swale that is designed to attenuate runoff rates as well as provide water quality treatment. The proposed LID Swale has been designed to attenuate rates to not exceed those observed in the pre-development condition. The LID Swale will overland flow into the Queens Way right-of-way and discharge in accordance with the pre-development condition.

Soils Information

The National Resource Conservation Service (NRCS) Soil Survey for Nassau County describes the near surface soil profile for the project area as *Leon Fine Sand (0 to 2% Slopes)*. The onsite soil has a hydrologic soil rating of 'A/D'. Refer to Figure 4 for the NRCS Soils Map.

LID Swale

A site-specific soils investigation was conducted by NV5 on August 19th 2024. Based on the Summary Report of Geotechnical Site Exploration, the following design parameters were recommended for the swale calculations. Refer to Appendix C for further details.

- Average ground elevation within the proposed LID Swale area: 11.20'
- Base elevation of effective or mobilized aquifer (confining layer): 2 feet below surface (9.20')
- Average seasonal high groundwater table elevation: 1 feet below surface (10.20')
- Horizontal hydraulic conductivity: 25 feet per day (12.5 feet per day used in calculations)
- Unsaturated vertical infiltration rate: 9 feet per day (4.5 feet per day used in calculations)
- Specific yield (fillable porosity): 30%

Note: A factor of safety of 2 was applied to the horizontal hydraulic conductivity and the unsaturated vertical infiltration rate for use in calculations.

Drainage Analysis

The proposed Low Impact Design (LID) Swale was designed to capture runoff from Post DA-2 which lowers the post-development discharge rate compared to the pre-development discharge rate.

Appendix A contains details and calculations as well as a section for routing results, hydraulic calculations, and general drainage calculations.

Analysis Methodology

The drainage analysis was conducted using the computer program ICPR v3.10 to generate runoff hydrographs and route those hydrographs through the proposed stormwater system. The 10-year 24-hour storm event was analyzed using rainfall amounts published by NOAA Atlas and was modeled using the SCS Type II Florida Modified rainfall distribution.

Unit Hydrograph Parameters

Unit hydrograph parameters required for the drainage analysis include run-off curve number (CN), time of concentration (Tc), and drainage area. Values used in the analysis are summarized in the Curve Number Calculations provided in Appendix A.

Basin Storage

Stage-storage values for the proposed swale are provided in Appendix A.

Run-off and Facility Routing Results

The routing results are summarized in Table 1 below.

Table 1: Routing Results

Storm Event	PRE-Outfall (cfs)	POST-Outfall (cfs)	Difference (cfs)	Swale 1 Peak Stage (ft.) Top = 11.25
10-YR 24-HR	6.89	6.82	-0.07	11.23

Summary and Conclusions

The proposed drainage system meets CoFB criteria for a full retention system design in a open watershed. The criteria are as follows:

1. **Provide Peak Discharge Rate Attenuation:** Attenuate the post-development peak discharge rates to be less than the pre-development peak discharge rates for the 10 year – 24 hour storm event.
 - **The proposed LID Swale (Swale-1) functions as a dry retention facility that captures runoff from Post DA-2. This reduces the cumulative post-development (Post DA-1 and Post DA-2) discharge rate to less than that of the pre-development (Pre DA-1) discharge rate for the existing site.**

Based on the information provided, the project is eligible for approval by CoFB.

Figure 1

Project Location Map

Project Location Map

Christ Walk Church

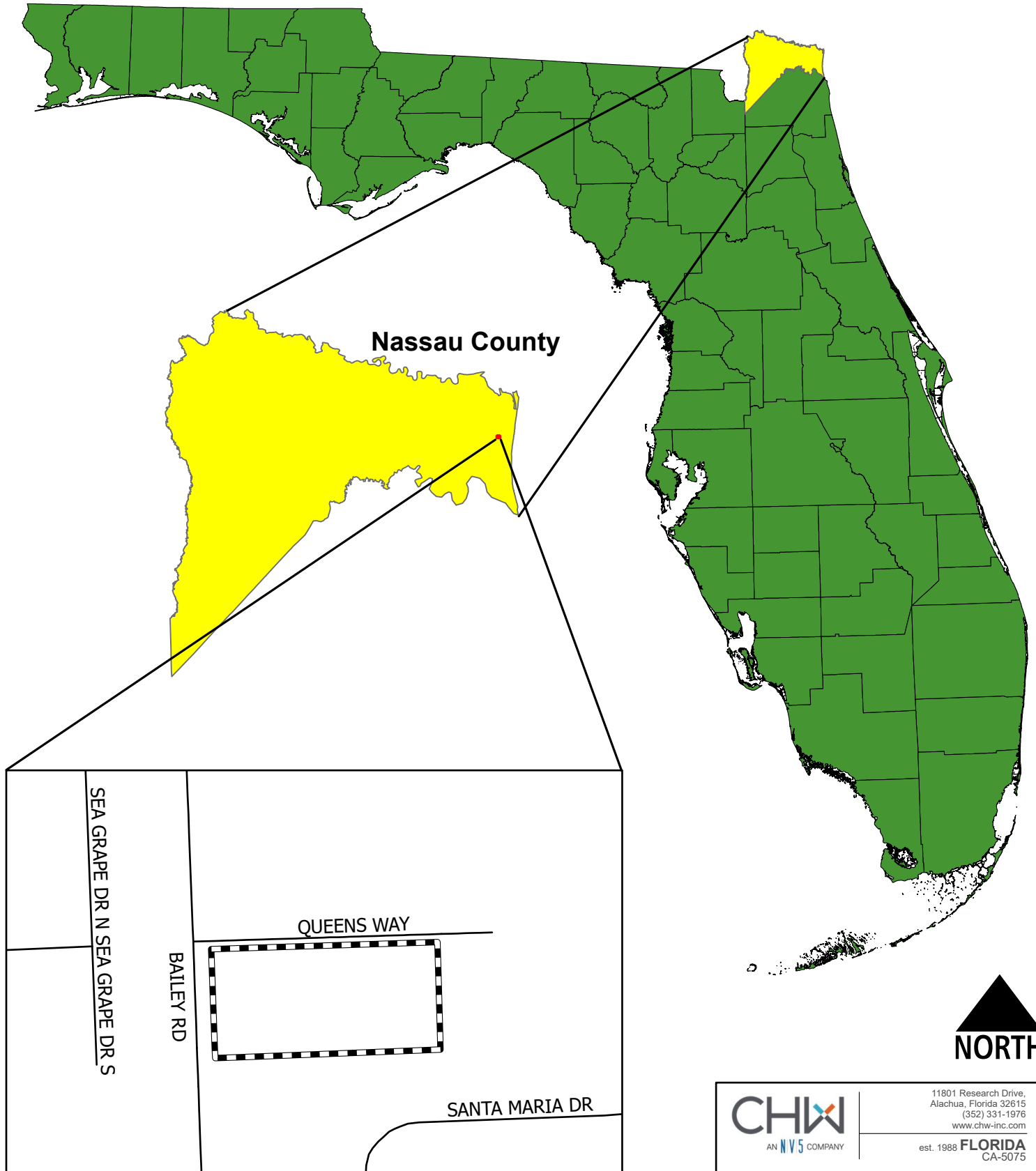


Figure 2

Quadrangle Map



11801 Research Drive,
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

Christ Walk Church Quad Map

0 500 1,000
Feet



Figure 3

Aerial Map



11801 Research Drive,
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

Christ Walk Church Aerial Map

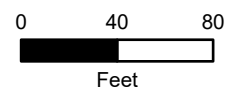


Figure 4

NRCS Soils Map



11801 Research Drive,
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

Christ Walk Church Soils Map

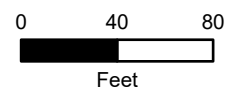


Figure 5

FEMA Flood Map



11801 Research Drive,
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

Christ Walk Church FEMA Map

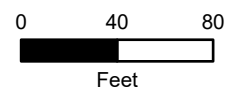


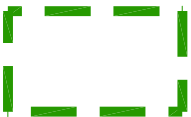
Figure 6

Pre-Development Drainage Map

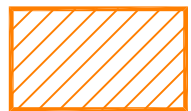
PRE-DEVELOPMENT DRAINAGE MAP

LEGEND

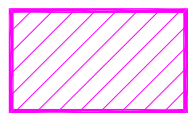
PRE-DEVELOPMENT ONSITE
WATERSHED:



EXISTING IMPERVIOUS
AREA TO REMAIN:



EXISTING IMPERVIOUS AREA TO
BE REMOVED:



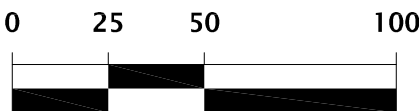
PRE-DEVELOPMENT DRAINAGE
PATTERN:



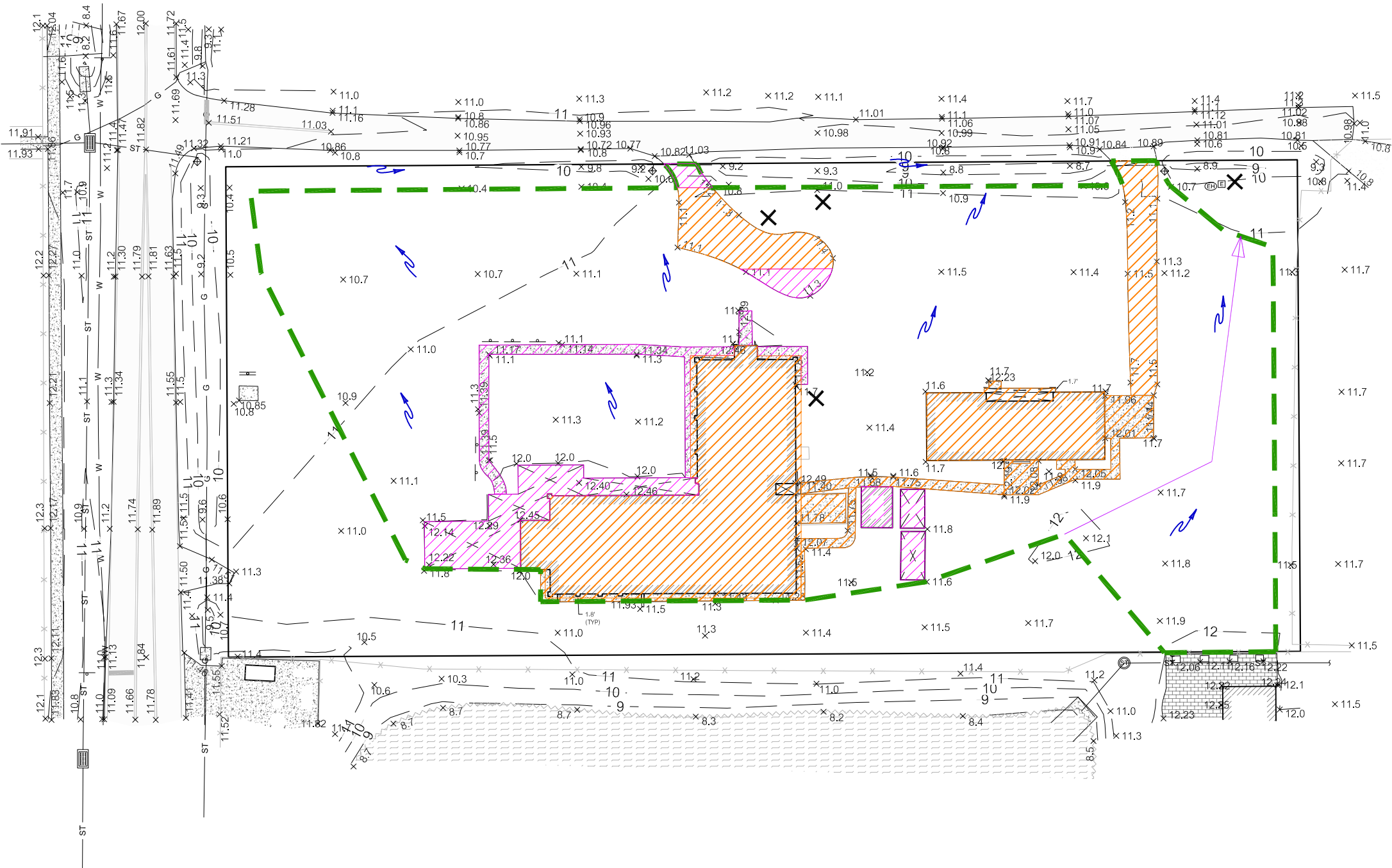
PRE-DEVELOPMENT TIME OF
CONCENTRATION:



GRAPHIC SCALE



NOTE: ALL SOILS ARE TYPE 'A/D' UNLESS
OTHERWISE NOTED



11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com

CHW
AN NVS COMPANY

1"=50'
VERTICAL SCALE
BARS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH OR
THIS SHEET ADJUST
SCALES ACCORDINGLY.

CLIENT	CHW, AN NVS COMPANY	PROJECT	CHRISTWALK CHURCH	SHEET TITLE	PRE-DEVELOPMENT DRAINAGE MAP
DESIGNER		QUALITY CONTROL		PROJECT NUMBER	24-0244
SHEET NO. 1					

Figure 7

Post-Development Drainage Map

POST-DEVELOPMENT DRAINAGE MAP

LEGEND

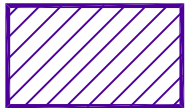
POST-DEVELOPMENT
ONSITE WATERSHED:



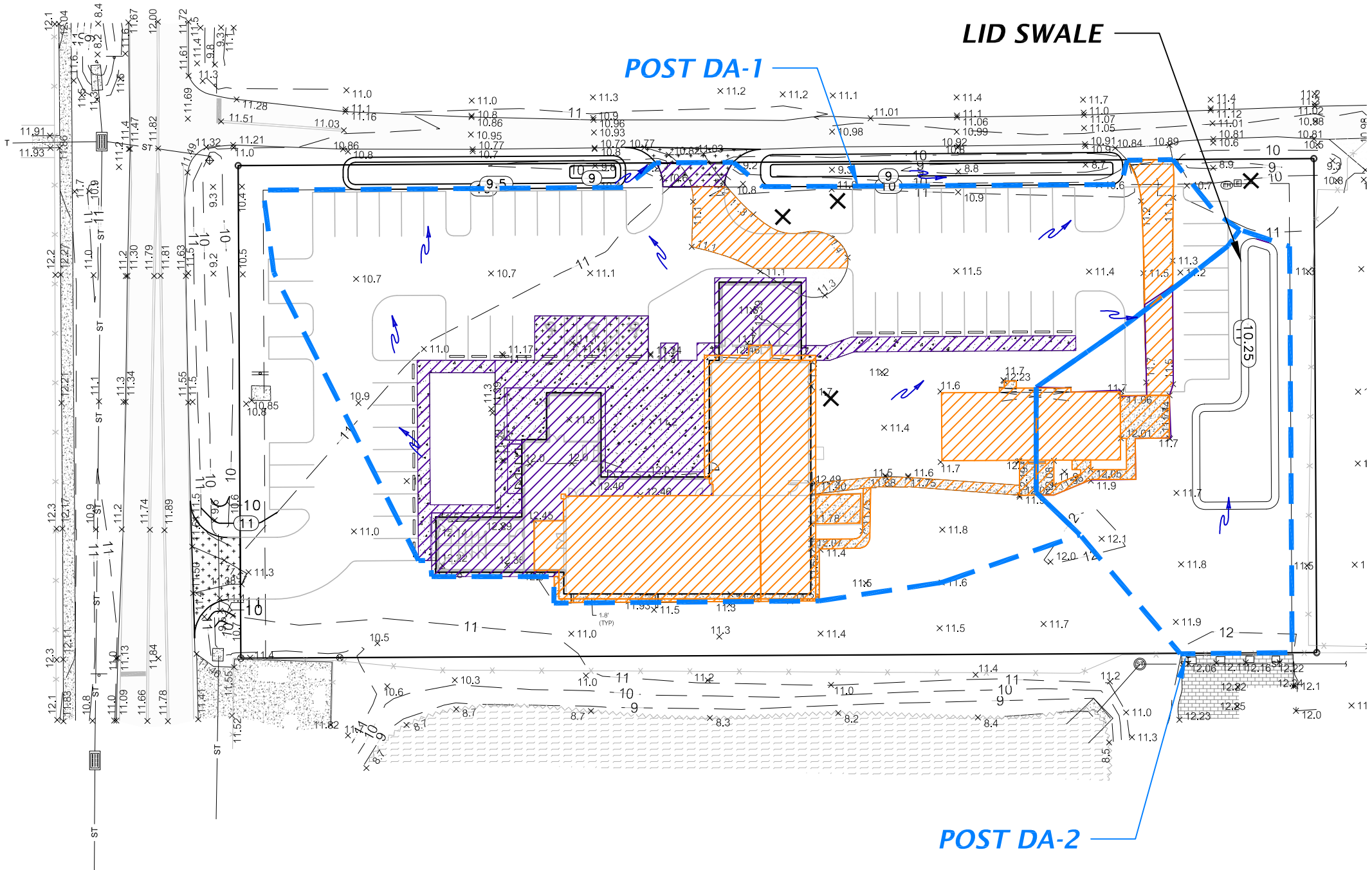
EXISTING IMPERVIOUS
AREA:



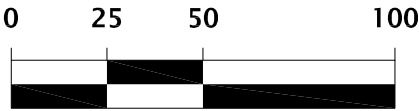
PROPOSED ONSITE
IMPERVIOUS AREA:



POST-DEVELOPMENT DRAINAGE
FLOW PATTERN:



GRAPHIC SCALE



NOTE: ALL SOILS ARE TYPE 'A/D' UNLESS
OTHERWISE NOTED

CHW AN NVS COMPANY		11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com		EST. 1988 FLORIDA CA-5075	
SCALE 1"=50'		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH OR THIS SHEET, ADJUST SCALE ACCORDINGLY.			
SUBMITTALS		CONSTRUCTION AND EXISTING			
CLIENT	CHW, AN NVS COMPANY	PROJECT	CHRISTWALK CHURCH	SHEET TITLE	POST-DEVELOPMENT DRAINAGE MAP
TECHNICAL	DESIGNER	QUALITY CONTROL	PROJECT NUMBER	24-0244	
SHEET NO.				2	

Appendix A

Drainage Calculations and Computer Model Output

CURVE NUMBER CALCULATIONS

Pre DA-1						
Total Area:	63,404	s.f.	1.46	ac.	CN	CN * Area
Existing Impervious (Demo)	3,572	s.f.	0.08	ac.	98	350056
Existing Impervious	13,095	s.f.	0.30	ac.	98	1283310
Open Space (Good, Type 'D' Soil)	46,737	s.f.	1.07	ac.	80	3738960

Weighted CN: **85**
 Time of Concentration: **10** minutes

Post DA-1						
Total Area:	51,082	s.f.	1.17	ac.	CN	CN * Area
Existing Impervious	11,048	s.f.	0.25	ac.	98	1082704
Proposed Impervious	9,565	s.f.	0.22	ac.	98	937370
Open Space (Good, Type 'D' Soil)	30,469	s.f.	0.70	ac.	80	2437520

Weighted CN: **87**
 Time of Concentration: **10** minutes

Post DA-2						
Total Area:	12,820	s.f.	0.29	ac.	CN	CN * Area
Existing Impervious	2,055	s.f.	0.05	ac.	98	201390
Proposed Impervious	0	s.f.	0.00	ac.	98	0
Open Space (Good, Type 'D' Soil)	10,765	s.f.	0.25	ac.	80	861200

Weighted CN: **83**
 Time of Concentration: **10** minutes

STAGE-STORAGE CALCULATIONS:

Post-Development: LID Swale				
ELEV.	AREA (SF)	AREA (AC.)	STORAGE (CF)	STORAGE VOLUME (AC-FT)
10.25	1,654	0.0380	0	0.00
11.00	2,450	0.0562	1,539	0.04
11.25	2,727	0.0626	2,186	0.05

Geotech Parameters:

Average Surface EL.:	11.2	ft
Groundwater Table:	9.2	ft
Seasonal High Water Table:	10.2	ft
Vertical Hydraulic Conductivity:	4.5	ft/day
Horizontal Hydraulic Conductivity:	12.5	ft/day
Porosity:	30	%

Perc Perimeters:

P1:	280	ft
P2 (25'):	424	ft
P3 (100'):	634	ft

Tc CALCULATIONS:

SHEET FLOW						SHALLOW CONCENTRATED FLOW					CHANNEL / PIPE FLOW								
BASIN	Manning's n (--)	Flow Length L (ft)	2-Year 24-Hour Rain, P2 (in)	Land Slope s (ft/ft)	Tt1 (hr)	Paved or Unpvd. (P or U)	Flow Length L (ft)	Water- course Slope, s (ft/ft)	Avg. Velocity V (ft/s)	Tt2 (hr)	Cross- Section Area, a (ft^2)	Wetted Perim. Pw (ft)	Hydraulic Radius r (ft)	Pipe Slope s (ft/ft)	Manning n (--)	Avg. Velocity V (ft/s)	Flow Length L (ft)	Tt3 (hr)	
Pre DA-1	0.15	100	5.07	0.006	0.21	U	60	0.015	1.98	0.01	-	-	-	-	-	-	-	-	

ID	Tc	Tc
#	(hr)	(min)
PRE DA-1	0.22	13

If Tc less than 10 minutes, 10 minutes was assumed per FDOT standards

TIME OF CONCENTRATION VALUES DETERMINED USING TR-55 METHODOLOGY.

SHEET FLOW:

Tt = $\frac{0.007 (nL)^{0.8}}{(P2)^{0.5}S^{0.4}}$

SHALLOW CONCENTRATED FLOW:

1. For slopes < 0.005 ft/ft
Unpaved V=16.1345 s^{0.5}
Paved V=20.3282 s^{0.5}

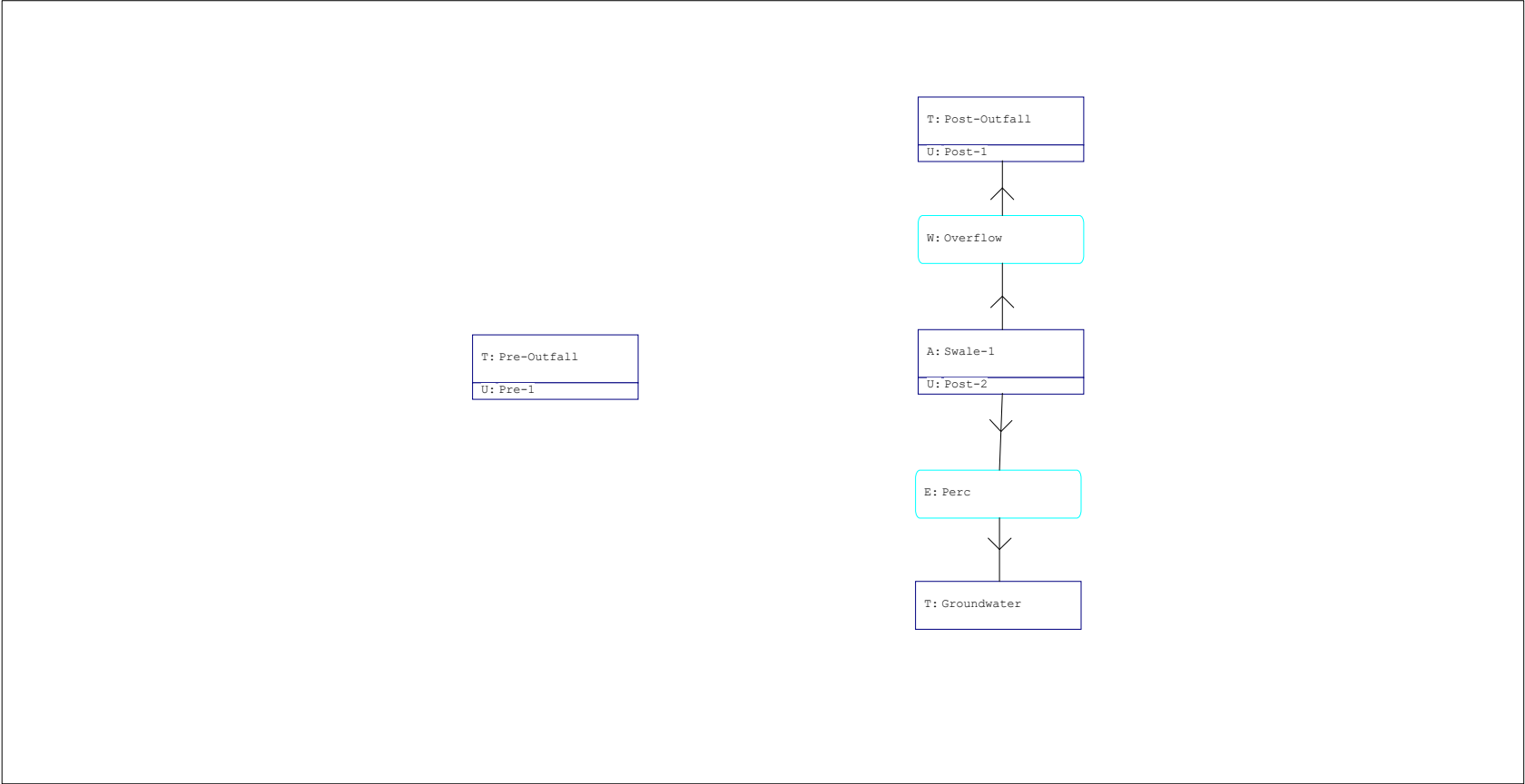
2. For slopes > 0.005 ft/ft
Velocity per Figure 3-1, TR-55

CHANNEL/PIPE FLOW:

V = $\frac{1.49r^{2/3}s^{1/2}}{n}$
Tt = $\frac{L}{3600 V}$

Christwalk Church - Pre/Post Drainage

- Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole
- Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA
- Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



=====
 Basins
 =====

Name: Post-1	Node: Post-Outfall	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh484	Peaking Factor: 484.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 10.00	
Area(ac): 1.170	Time Shift(hrs): 0.00	
Curve Number: 87.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

Name: Post-2	Node: Swale-1	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh484	Peaking Factor: 484.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 10.00	
Area(ac): 0.290	Time Shift(hrs): 0.00	
Curve Number: 83.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

Name: Pre-1	Node: Pre-Outfall	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh484	Peaking Factor: 484.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 13.00	
Area(ac): 1.460	Time Shift(hrs): 0.00	
Curve Number: 85.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

=====
 Nodes
 =====

Name: Groundwater	Base Flow(cfs): 0.000	Init Stage(ft): 0.000
Group: BASE		Warn Stage(ft): 0.000
Type: Time/Stage		

Time(hrs)	Stage(ft)
-----	-----
0.00	0.000

999.00	0.000
--------	-------

```

-----
Name: Post-Outfall      Base Flow(cfs): 0.000      Init Stage(ft): 0.000
Group: BASE             Warn Stage(ft): 0.000
Type: Time/Stage

```

Time(hrs)	Stage(ft)
0.00	0.000
999.00	0.000

```

-----
Name: Pre-Outfall      Base Flow(cfs): 0.000      Init Stage(ft): 0.000
Group: BASE             Warn Stage(ft): 0.000
Type: Time/Stage

```

Time(hrs)	Stage(ft)
0.00	0.000
999.00	0.000

```

-----
Name: Swale-1          Base Flow(cfs): 0.000      Init Stage(ft): 10.250
Group: BASE             Warn Stage(ft): 11.250
Type: Stage/Area

```

Stage(ft)	Area(ac)
10.250	0.0380
11.000	0.0562
11.250	0.0626

```

=====
==== Weirs =====
=====

```

```

Name: Overflow          From Node: Swale-1
Group: BASE             To Node: Post-Outfall
Flow: Both              Count: 1
Type: Vertical: Mavis   Geometry: Rectangular

```

```

      Span(in): 36.00
      Rise(in): 3.00
      Invert(ft): 11.000
Control Elevation(ft): 11.000

```

TABLE

```

      Bottom Clip(in): 0.000
      Top Clip(in): 0.000
Weir Discharge Coef: 3.200

```

Orifice Discharge Coef: 0.600

=====
 ==== Percolation Links =====
 =====

Name: Perc	From Node: Swale-1	Flow: Both
Group: BASE	To Node: Groundwater	Count: 1

Surface Area Option: Vary based on Stage/Area Table
 Vertical Flow Termination: Horizontal Flow Algorithm

Aquifer Base Elev(ft): 9.200	Perimeter 1(ft): 280.000
Water Table Elev(ft): 10.200	Perimeter 2(ft): 424.000
Ann Recharge Rate(in/year): 0.000	Perimeter 3(ft): 634.000
Horiz Conductivity(ft/day): 12.500	Distance 1 to 2(ft): 25.000
Vert Conductivity(ft/day): 4.500	Distance 2 to 3(ft): 75.000
Effective Porosity(dec): 0.300	Num Cells 1 to 2: 5
Suction Head(in): 0.000	Num Cells 2 to 3: 25
Layer Thickness(ft): 0.000	

=====
 ==== Hydrology Simulations =====
 =====

Name: 10YR 24HR
 Filename: N:\2024\24-0244\Departments\04_Engineering\03_Drainage\2_Calculations\ICPR - PONDS\10YR 24HR.R32

Override Defaults: Yes
 Storm Duration(hrs): 24.00
 Rainfall File: Flmod
 Rainfall Amount(in): 7.68

Time(hrs)	Print Inc(min)
-----	-----
30.000	5.00

=====
 ==== Routing Simulations =====
 =====

Name: 10YR 24HR Hydrology Sim: 10YR 24HR
 Filename: N:\2024\24-0244\Departments\04_Engineering\03_Drainage\2_Calculations\ICPR - PONDS\10YR 24HR.I32

Execute: Yes	Restart: No	Patch: No
Alternative: No		

Max Delta Z(ft): 1.00	Delta Z Factor: 0.00500
Time Step Optimizer: 10.000	
Start Time(hrs): 0.000	End Time(hrs): 360.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 60.0000
Boundary Stages:	Boundary Flows:

Time (hrs)	Print Inc (min)
-----	-----
24.000	15.000
360.000	60.000
Group	Run
-----	-----
BASE	Yes

Christwalk Church - Pre/Post Drainage

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
Post-Outfall	BASE	10YR 24HR	0.00	0.00	0.00	0.0000	0	12.00	6.82	0.00	0.00
Pre-Outfall	BASE	10YR 24HR	0.00	0.00	0.00	0.0000	0	12.00	6.89	0.00	0.00
Swale-1	BASE	10YR 24HR	12.11	11.23	11.25	0.0050	2708	12.00	1.40	12.11	1.11

Appendix B

Operation and Maintenance Requirements and
Erosion and Sedimentation Control Requirements

Operation and Maintenance Plan

Proposed operation and maintenance and soil erosion and sediment control practices are outlined in the following paragraphs. Lists and details of all stormwater components can be found in the approved plan set and accompanying engineering reports.

Erosion Control

All erosion damage at spillways, outfall structures, and along basin side slopes shall be repaired (grading and grassing) as conditions occur. All side slopes and other areas disturbed by construction shall be stabilized by sodding, hydro-mulching or other appropriate vegetative or non-vegetative erosion control measures.

Culverts, Pipes and Structures

All culverts, pipes, structures, and paved flow lines shall be maintained free of debris and sediment. Additionally, outfall and drawdown devices should be inspected and debris in the flow lines of weirs and orifices shall be removed. Sediments removed from these pipes and structures should be disposed of in an approved manner.

All pipes and structures, if any, shall be inspected monthly by the owner's operation and maintenance entity.

Swale/Ditch

All swales, if any, shall be maintained free of debris and sediment. Sediments shall be removed when the depth has been reduced by 20 percent. Areas shall be inspected on a routine basis and nuisance plants shall be removed a minimum of twice annually. Grassed areas shall be mowed a minimum of 6 times per year. Sediments removed from swales/ditches shall be disposed of in an approved manner.

All swales/ditches shall be inspected monthly by the owner's operation and maintenance entity and inspection findings shall be documented.

If continuous limerock is encountered during excavation of the swales/ditches or if a sinkhole forms in the area of a drainage swale/ditch the engineer of record shall be notified by either the contractor or the established operation and maintenance entity. The engineer of record shall inspect the repaired area upon completion of the repair.

Where continuous limerock is encountered during excavation of the swales/ditches, the limerock shall be over excavated by 2 feet and replaced with clayey soils that extend 2 feet beyond the perimeter of the limerock outcropping. The clayey soil shall have at least 20% passing the no. 200 sieve, compacted to 95% of standard proctor, and compacted in a wet condition with moisture 2% - 4% above optimum.

All swales/ditches shall be inspected monthly for sinkhole occurrence. Should a sinkhole occur, the area shall be repaired as soon as possible. Repair shall include filling (limerock such as road base material, clay/sand mixture, or concrete if necessary). A 2-foot deep cap that extends 2 feet beyond the perimeter of the sinkhole shall be constructed with clayey soils. The clayey soil shall have at least 20% passing the no. 200 sieve, compacted to 95% of standard proctor, and compacted in a wet condition with moisture 2% - 4% above optimum. The clay soil cap shall be re-graded to prevent concentration of waters (ponding) and re-vegetated.

Operation & Maintenance Entity:

Entity Name: Christwalk Church of God, Inc.

Address: 2920 Bailey Road
Fernandina Beach, FL 32034

Appendix C

Geotechnical Report

GEOTECHNICAL ENGINEERING REPORT

Christwalk Church – Fernandina Beach
2920 Bailey Road,
Fernandina Beach, Nassau County, Florida
August 19, 2024

Prepared for:

Pastor Blake Snapp
Christwalk Church of God, Inc.
2920 Bailey Road
Fernandina Beach, Florida 32034

N|V|5

12080 Technology Avenue,
Suite 400, Alachua, FL 32615

EXECUTIVE SUMMARY

A Geotechnical exploration was performed for the project site, which is located at 2920 Bailey Road, in the City of Fernandina Beach, Nassau County, Florida.

The subsurface conditions at the site were explored with a total of five (5) SPT borings to a depth of 20 feet bls within the areas of proposed building expansion, three (3) auger borings to depths of 15 feet bls within the storm water management facility area, and five (5) auger borings to depths of 5 feet below land surface (bls) along the driveway, parking lot, and sidewalk areas.

Based on the field explorations, the provided site plan, and our experience with general subsoil conditions for similar developments, the followings summarize our main geotechnical recommendations:

- The subsoil conditions can be described generally as loose to medium dense sand with silt and poorly graded sand to the maximum boring termination depth of 20 feet.
- The performed borings were observed during drilling for the presence and level of groundwater. The groundwater table was encountered at depths of 2 to 3 feet. We estimate during the seasonal high, the water level will rise about 1 foot above the encountered groundwater table during the rainy season.
- The subsoil conditions described above are considered suitable to adequately support the building expansion on typical shallow foundations in the form of spread/continuous footings or monolithic slab supported on site soil or structural fill. Bearing pressures on the order of 2,500 psf are recommended with minimum embedment depth of 1.5 feet assuming the 12 inches below the foundation level are compacted to 95% of modified Proctor Density. Foundation design and construction recommendations are presented later in the report.
- The near surface soil consisted of sand with silt, which are suitable as a subgrade material for conventional pavement sections. Limerock Bearing Ratio (LBR) tests of the native subgrade soils indicate a LBR of 25. Generally, groundwater table was encountered at 2 feet. We estimate that during the seasonal high ground water level to be about one foot above the encountered groundwater. Where the water table is shallow, fill may be added, if required, to bring the site to design grades that allow a minimum separation of 18" between the seasonal high groundwater level and the selected pavement section.
- Within the proposed stormwater pond, the groundwater table was encountered at 2 feet. We anticipated seasonal high-water groundwater table to be about 1 foot below existing grades. Permeability tests performed on the fine sands showed a rate of 13 feet per day. Stormwater design parameters are presented later in the report.

This report should be read in its entirety so that the recommendations presented herein are fully understood and properly implemented in the project geotechnical design.

TABLE OF CONTENTS

1.0 PROJECT INFORMATION 1

2.0 PURPOSE..... 1

3.0 FIELD EXPLORATION 1

4.0 GENERAL POTENTIAL FOR SINKHOLE DEVELOPMENT 2

5.0 SOIL AND GROUNDWATER CONDITONS 2

5.1 SOIL SURVEY 2

5.2 SUBSURFACE CONDITIONS..... 3

5.3 GROUNDWATER 3

6.0 CONCLUSIONS AND RECOMMENDATIONS 4

6.1 FOUNDATIONS 4

6.2 GROUND FLOOR SLABS 5

6.3 EARTHWORK..... 5

6.3.1 Site Preparation..... 5

6.3.2 Fill Material and Compaction Requirements..... 6

6.3.3 Grading and Drainage 6

6.3.4 Earthwork Construction Consideration 6

6.4 EXCAVATION AND DEWATERING 6

6.5 PAVEMENT..... 7

6.5.1 Light Duty- Passenger Cars Only 7

6.5.2 Heavy Duty Driveways and Areas Accessed by Truck Traffic 7

6.6 STORMWATER MANAGEMNT DESIGN 8

7.0 LIMITATIONS 8

8.0 CLOSURE 9

ATTACHMENTS

Drawing No. 1	Topographic Vicinity Map
Drawing No. 2	USDA Soils Map
Drawing No. 3	Site Plan Showing Approximate Locations of Field Tests
Attachment No. 1	Borings Logs and LBR Result
Attachment No. 2	Key to Soil Classification Chart
Attachment No. 3	ASFE Guidelines for Geotechnical Report

1.0 PROJECT INFORMATION

The proposed project is located on tax parcel 00-00-30-044B-0045-0020 (± 2 acres) in the City of Fernandina Beach, Nassau County, Florida. This project will consist of a building expansion, a driveway, a parking lot, a sidewalk, and a stormwater management facility. The church is planning to renovate and expand their current facility to include an additional $\pm 9,800$ sf. In addition, the church would like to formalize their parking lot with a mixture of pervious and paved parking as well as improve the existing driveway connections to Queens Way and Bailey Road which are County roads. The required proposed stormwater management facility will be located at the southeast corner of the site. Finally, Nassau County will require a sidewalk along Bailey Road.

2.0 PURPOSE

The purpose of our services on this project is to explore the shallow subsurface in order to provide geotechnical engineering recommendations for:

- Subsurface soil conditions
- Groundwater conditions
- Earthwork and excavation
- Foundation design and construction
- Floor slab design and construction
- Pavement design and construction
- Stormwater management design soil parameters

3.0 FIELD EXPLORATION

The subsurface conditions at the site were explored with a total of five (5) SPT borings to a depth of 20 feet bls within the areas of proposed building expansion, three (3) auger borings to depths of 15 feet bls within the storm water management facility area, and five (5) auger borings to depths of 5 feet below land surface (bls) along the driveway, parking lot, and sidewalk areas. Borings were performed at the approximate locations shown on **Drawing No. 3. Site Plan Showing Approximate Locations of Field Tests** were marked and identified in the field using a GPS unit.

The SPT borings were drilled with a track-mounted drill rig utilizing the mud-rotary wash method. Samples of the subsurface materials were recovered at two-foot intervals within the upper 10 feet of the boring and at roughly five-foot intervals thereafter using a Standard Penetration Test split-spoon sampler (SPT) in substantial accordance with ASTM D-1586, "Standard Test Method for Standard Penetration Test and Split-Barrel Sampling of Soils." This test procedure drives a 1.4-inch I.D. split-tube sampler into the subsurface profile using a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler the second and third six-inch increments is the SPT N-value, in blows per foot, and is an indication of material strength. Upon completion of the borings, the boreholes were backfilled to the ground surface with soil cuttings.

The auger borings were performed in accordance with ASTM D1452. The borings were performed with flight auger equipment that was rotated into the ground in a manner that reduces soil disturbance. After penetrating to the required depth, the auger was retracted, and the soil collected on the auger flights were field classified and placed in sealed containers. Representative samples of each stratum were retained from the auger borings.

The soil samples recovered from the borings were classified by a geotechnical engineer. The collected samples were later re-examined to confirm field classifications. Visual soil classifications were made in accordance with ASTM D2487 and ASTM D2488. Conditions encountered at each boring location are indicated on the individual boring logs shown in **Attachment No. 1**. Strata contacts shown on these boring logs are approximate. The boring data reflects conditions at the specific test location only, and at the time the borings were drilled.

4.0 GENERAL POTENTIAL FOR SINKHOLE DEVELOPMENT

Sinkhole development occurs in Florida and varies geographically from areas with almost no potential or a very low potential to areas with a high potential where sinkholes occur frequently. The subject property is approximately in Area IV on the United States Geological Survey map entitled “Sinkhole Type, Development, and Distribution in Florida”.

Area IV typically has soil cover more than 200 feet thick that consists of cohesive sediments interlayered with discontinuous carbonate beds. Sinkholes are very few, but several large diameter deep sinkholes occur. Cover collapse sinkhole dominate.

During our limited shallow explorations, we did not encounter traditional signs associated with potential sinkhole development including abnormal downward pore water pressure gradients, obvious raveled zones, surface depressions, etc. However, this evaluation was not planned to specifically address sinkhole potential.

If the sinkhole potential of the site is to be evaluated, additional site-specific data must be obtained. This might include using geophysical methods such as Electrical Resistivity tests and additional geotechnical tests such as Cone Penetrometer Test (CPT) soundings, and/or more/deeper Standard Penetration Test borings. Interpretation of the test data should be done by a professional geologist/engineer familiar with the use of these tests under local conditions. However, it should be noted that even if indicators of sinkhole activity are found, it is impossible to predict if, when or precisely where a sinkhole may occur. If requested, NV5 can assist in assessing the sinkhole potential of the location of the proposed construction.

5.0 SOIL AND GROUNDWATER CONDITONS

5.1 SOIL SURVEY

The USDA Soil Survey of Nassau County, Florida, as shown on **Drawing No. 2**, was reviewed for a general description of the near-surface soil types that may be anticipated at the site. It should be noted that the Soil Survey is not intended as a substitute for site-specific geotechnical exploration; rather it is a useful tool in planning a project scope in that it provides information on soil types likely to be encountered. The major shallow subsurface profile at the project site is represented in the following:

9 – Leon Fine Sand 0 to 2 percent slopes – This nearly level, poorly drained soil is on flatwoods. The mapped areas range from about 3 to 75 acres. Slopes are smooth and are 0 to 2 percent.

In 94 percent of the areas mapped as Leon fine sand, Leon and similar soils make up 89 to 98 percent of the map unit. Dissimilar soils make up to 2 to 11 percent. They generally are in areas less than 3 acres in size.

Typically, the surface layer is very dark gray fine sand about 7 inches thick. The subsurface layer, to a depth of about 18 inches, is gray fine sand. The subsoil, to a depth of about 31 inches, is black and reddish-brown fine sand. Separating the upper and lower parts of the subsoil, to a depth of about 37 inches, is a buried subsurface layer of yellowish-brown fine sand. The lower part of the subsoil, to a depth of 80 inches or more, is dark brown and black fine sand. Soils occurring in areas of this map unit that are similar to the Leon soil and Boulogne soils and some soils that have a black or very dark gray surface layer 8 to more than 10 inches thick. The thickness of the surface layer is caused by forestry bedding practices. These are also similar soils that have thin layers of loamy fine sand directly above the lower part of the subsoil.

Included in this map unit are small areas of dissimilar soils. These are Kingsferry, Pottsburg, Ridgewood, Sapelo, and Wesconnett soils. Sapelo soils are in positions on the landscape similar to those of the Leon soil. Kingsferry soils are lower on flatwoods than the Leon soil. Pottsburg and Ridgewood soils are on ridges and knolls. Wesconnett soils are in depressions.

Permeability of this Leon soil is rapid in the surface, subsurface, and buried subsurface layers and moderate or moderately rapid in the subsoil. The available water capacity is very low in the surface, subsurface, and buried subsurface layers and low in the subsoil. The seasonal high-water table is at a depth of 6 to 18 inches for 1 to 4 months during periods of heavy rainfall and at a depth of 12 to 42 inches for 2 to 8 months of the year.

5.2 SUBSURFACE CONDITIONS

The subsoil conditions can be described generally as loose to medium dense sand with silt and poorly graded sand to the maximum boring termination depth of 20 feet.

Conditions encountered at each boring location are indicated on the individual boring logs shown in **Attachment No. 1** of Appendix A. Stratification boundaries on the boring logs represent the approximate location of changes in native soil types; in situ, the transition between materials may be gradual.

5.3 GROUNDWATER

Borings were observed during drilling for the presence and level of groundwater. The groundwater table was encountered at depths of 2 to 3 feet bls. We estimate the seasonal high-water groundwater table to be 1 foot below existing grade during the rainy season.

It should be recognized that fluctuations of the groundwater table will occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the boring was performed. Therefore, groundwater levels during construction or at other times in the future may be higher or lower than the levels indicated on the boring logs.

Our estimates of the seasonal groundwater conditions are based on the USDA Soil Survey, the encountered soil types and groundwater and do not represent the temporary rise in water table that occurs immediately following a storm events.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on the project characteristics previously described, the data obtained from our field explorations, and our experience with similar subsurface conditions and construction types. If subsurface conditions differ from those encountered by the borings during construction, we should be notified immediately so that we might review the following recommendations considering such changes.

The final design of a foundation system is dependent upon adequate integration of geotechnical and structural engineering considerations. Consequently, NV5 must review the final foundation design to evaluate the effectiveness and applicability of our initial analyses, and to determine if additional recommendations may be warranted. Without such a review, the recommendations presented herein could be misinterpreted or misapplied resulting in potentially unacceptable performance of the foundation system.

6.1 FOUNDATIONS

Assuming the site is prepared as recommended in Earthwork section of this report, in our opinion, the proposed building additions may be supported by shallow foundation system in the form of spread/strip footings and/or thickened edge monolithic slab foundations, bearing on native soil or newly placed fill extending to native soil. Design recommendations for shallow foundations for the proposed building additions are presented below:

- We recommend using a net allowable bearing pressure of 2,500 psf to size the foundations. Exterior foundations should be embedded to a minimum of 18 inches below lowest adjacent grades. Interior foundations should be embedded a minimum of 12 inches.
- Total settlement of recommended shallow foundations is expected to be less than 1 inch. Differential settlement is expected to be less than $\frac{1}{2}$ inch between column footing, less than $\frac{1}{2}$ inch over 40 feet for strip footing, and less than $\frac{1}{2}$ inch over 40 feet for monolithic slab foundation.
- Footing subgrade soils should be approved by the geotechnical engineer or his representative prior to placement of concrete and steel. As a minimum acceptance criterion, the footing subgrade soils should be compacted to a minimum density of 95% of the soils modified Proctor maximum dry density to a depth of 12 inches under foundation bearing levels. Should clayey sand be encountered at the foundation bearing level, these soils should be probed in lieu of density testing.
- A minimum of one field density to a minimum depth of 1 foot below the footing subgrade per column footing and per 50 linear feet for wall and monolithic slab foundation should be performed.
- The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become excessively dry, disturbed or

saturated, the affected soil should be moisture conditioned and re-compacted or removed prior to placing concrete. It is recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

- NV5 anticipates hand-operated compaction equipment will be utilized, as necessary, in footing cuts, following any mass grading. If unsuitable bearing soils are encountered in footing excavations, the excavation should be extended deeper to suitable soils and the foundation could bear directly on these soils at the lower level or on suitable backfill placed in the excavations. Over-excavation for compacted backfill placement below footings should extend laterally beyond all edges of the footings. The over-excavation should then be backfilled up to the footing base elevation per the preceding general earthwork specifications, using hand operated compaction equipment in footing cuts. If excavations extend into a 1:1 horizontal to vertical projection from the bottom edge existing foundations, the existing foundations should be shored to prevent settlement. The contractor should be responsible for shoring existing foundations as needed for the proposed construction.

6.2 GROUND FLOOR SLABS

Ground floor slabs may be supported on grade or engineered fill. Slab subgrades should be properly prepared as recommended in the Site Preparation section of this report. Slabs on grade may be designed using a modulus of subgrade reaction of 100 pounds per cubic inch (pci). Slabs should be reinforced for the loads that they will sustain, and construction joints should be provided at frequent intervals.

Slabs in contact with soil are subject to movement of moisture from the soil upward through the slab. To prevent such moisture vapor transmission, a moisture barrier should be placed on the slab subgrade and should be protected from damage during construction. Construction joints should be provided with water stops in any permanently submerged areas.

6.3 EARTHWORK

6.3.1 Site Preparation

Prior to placing any fill, the organics/muck, topsoil and any otherwise unsuitable material should be removed from the construction area.

Geotechnical site preparation for construction should consist of removal of all pavements, underground utilities, landscape, and other deleterious materials within proposed building and pavement footprints. Any voids created by the removal of these deleterious materials should be properly backfilled as described in the paragraphs below.

After preparation as described above, areas for structures that will have slabs on grade or pavements should be proof rolled with a heavy roller (with vibrator turned off) or loaded truck. The proof rolling should be observed by the geotechnical engineer to identify and mitigate any weak subgrade conditions evidenced by yielding or rutting at the wheels of the roller or truck.

The site preparation recommended above should include the planned structure and pavement footprints plus a five-foot perimeter.

6.3.2 Fill Material and Compaction Requirements

In general, fill soils placed to raise site grades above existing should consist of either inorganic, non-plastic sand having less than 12% material passing the No. 200 sieve. Fill soils placed within the upper 12 inches of the subgrade of building grade slabs on grade should consist of either sand with less than 10% passing the number 200 sieve. Based on our boring data the near-surface sand should satisfy the fill criteria but might require localized sorting and moisture-conditioning prior to re-use. In any event, representative samples of the fill soils should be collected for classification and compaction testing. The maximum dry density, optimum moisture content, gradation, and plasticity should be determined. These tests are needed for quality control of the compacted fill.

Fill soils should be placed with loose lift thicknesses of not more than 12 inches, moisture-conditioned to within two (2) percent of the optimum moisture content based on ASTM D-1557 and compacted to a minimum of 95 percent relative compaction. One test should be performed for each 2,500 square feet of fill area per lift of fill soil. If during the compaction process fill shows evidence of yielding under the weight of the roller, it should be scarified and re-compacted, or removed and replaced with fill described above. The vibrations produced by the operation of the compactor should be monitored for potential adverse effects on adjacent existing structures, pavements, and utilities. If nearby structures may be affected by the vibration of the compactor, the compaction procedure may require modification as approved by the geotechnical engineer.

6.3.3 Grading and Drainage

Final surrounding grades should be sloped away from the structure on all sides to prevent ponding of water. Roof drainage should discharge to the stormwater system or a minimum of 10 feet beyond the footprint of the proposed structures where there are pervious surfaces. Site grades should be set considering the estimated seasonal high groundwater.

6.3.4 Earthwork Construction Consideration

Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the subgrade should become desiccated, saturated, or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and re-compacted prior to floor slab and pavement construction.

Installation of landscape drains should be considered around the back sides of curbs to collect and control landscape irrigation and other water entering through landscaping from entering the sides of the pavement sections, reducing the potential for water-related damage. Landscape drains should be routed to the stormwater collection or other positive outfall, away from the pavement.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proof-rolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction of building floor slabs.

6.4 EXCAVATION AND DEWATERING

Groundwater levels were encountered in the drilled boreholes at depths of approximately 2 to 3 feet below the existing ground. Localized dewatering, if required, may be achieved with pumps and sumps.

Dewatering for deeper excavations including installation of utility systems and appurtenances for storm drains and sewer lines might require well points around those excavations. All dewatering and subsequent effluent discharge should meet the requirements of the local jurisdictional agencies. During dewatering the adjacent properties must be monitored for adverse impacts from dewatering drawdown. The dewatering subcontractor should submit a proposed design for dewatering operations to the owner for review and approval prior to commencing work.

Shallow excavations into the near-surface materials will likely stand vertical for short periods of time only. The excavation sides will unravel over time as they are exposed to weather and construction traffic. Deeper excavations, especially those that extend below the groundwater table, as well as excavations that will remain open for longer periods of time will require support in the form of temporary shoring or sliding trench boxes to prevent instability of excavation walls and to protect workers from injury. All excavations should comply with Occupational Safety and Health Administration (OSHA) design and safety requirements. Shoring designs should be signed and sealed by a Florida-licensed professional engineer and should be provided for the Owner's review.

6.5 PAVEMENT

The near surface soil conditions encountered at most borings consisted of clean fine sands to fine sand with silts, which are suitable as subgrade for conventional pavement sections. Groundwater table was observed in all borings at depths of 2 feet. The seasonal high groundwater table is anticipated to be approximately 1 foot below existing grades at most locations across the site. LBR tests results indicate the native near surface soils have an LBR of 25. Traffic loads are not given yet, but are anticipated to consist mostly of passenger cars, light pick-up trucks, and occasional large trash collection trucks.

Based on the above information and assumptions, the minimum recommend pavement sections are as follows:

6.5.1 Light Duty- Passenger Cars Only

- 1.5 inches of asphaltic concrete structural course according to FDOT Specifications.
- 6 inches of limerock base compacted to at least 98 percent of the Modified Proctor maximum dry density (AASHTO T-180 or ASTM D-1557). Limerock base courses should be mined from a Florida Department of Transportation (FDOT) approved source, should have a minimum LBR value of 100. We recommend a minimum 24 inches separation between the bottom of the limerock base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.
- 6 inches of compacted natural subgrade stabilized to a minimum Limerock Bearing Ratio (LBR; Florida Method of Test Designation FM 5-515) value of 40. Stabilization of the sub-base should be accomplished using coarse aggregate as well-graded crushed concrete or FDOT-approved limerock stabilization material. The subgrade should be compacted to at least 98 percent of the Modified Proctor maximum dry density (AASHTO T-180 or ASTM D-1557).

6.5.2 Heavy Duty Driveways and Areas Accessed by Truck Traffic

- 2 inches of asphaltic concrete structural course according to FDOT Specifications.

- 8 inches of limerock base compacted to at least 98 percent of the Modified Proctor maximum dry density (AASHTO T-180 or ASTM D-1557). Limerock base courses should be mined from a Florida Department of Transportation (FDOT) approved source, should have a minimum LBR value of 100. We recommend a minimum 24 inches separation between the bottom of the limerock base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.
- 12 inches of compacted natural subgrade stabilized to a minimum Limerock Bearing Ratio (LBR; Florida Method of Test Designation FM 5-515) value of 40. Stabilization of the sub-base should be accomplished using coarse aggregate as well-graded crushed concrete or FDOT-approved limerock stabilization material. The subgrade should be compacted to at least 98 percent of the Modified Proctor maximum dry density (AASHTO T-180 or ASTM D-1557).

6.6 STORMWATER MANAGEMNT DESIGN

Based on the soil type from USDA soil maps, our site exploration and laboratory results, table below presented our recommendations the Stormwater design parameters for the proposed pond:

Parameter	Pond (P-1 thru P-3)
Estimated depth to the confining layer	> 15 feet
Encountered depth to the groundwater table (GWT)	2 feet
Estimated depth to the seasonal high-water table (ESHWT)	1 foot
Estimated depth to seasonal low groundwater table (ESLWT)	6 feet
Measured vertical permeability in the fine sand layer	13 feet/day
Recommended vertical hydraulic conductivity in the fine sand to sand with silt layer	9 feet/day
Recommended horizontal hydraulic conductivity in the fine sand to sand with silt layer	25 feet/day
Recommended fillable porosity	30 percent

The values in the table do not include a Factor of Safety.

7.0 LIMITATIONS

This report has been prepared for the exclusive use of the Owner and other members of the design/construction team for the specific projects discussed in this report. This report has been prepared in accordance with generally accepted local geotechnical engineering practices; no other warranty is expressed or implied.

During the design development phase of the project, it is recommended that NV5 be retained to provide consultation to the ownership and design team, to review final foundation specification and review foundation design drawings, and to ensure that its recommendations have been correctly interpreted and implemented. Furthermore, NV5 should be retained to provide inspections during geotechnical construction. If the client does not provide NV5 with the opportunity to participate in the installation of the foundation, as is recommended in this report, then the client acknowledges and agrees that NV5 has no responsibility for the interpretation of the recommendations made in this report or for the performance of the foundation.

The evaluation and recommendations submitted in this report are based in part upon the data collected from the field exploration. The nature or extent of variations throughout the subsurface profile may not become evident until the time of construction. If variations then appear evident, it may be necessary to evaluate our recommendations as provided in this report. In the event changes are made in the nature, design or locations of the proposed project construction, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed, and conclusions modified or verified in writing by NV5.

8.0 CLOSURE

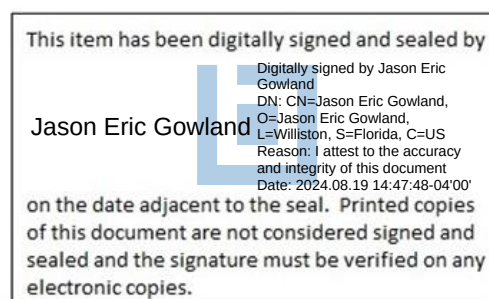
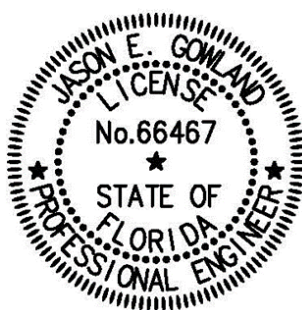
We appreciate the opportunity to provide geotechnical engineering services on this project. In the event that you have any questions concerning the contents of this report, or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

NV5, Inc.

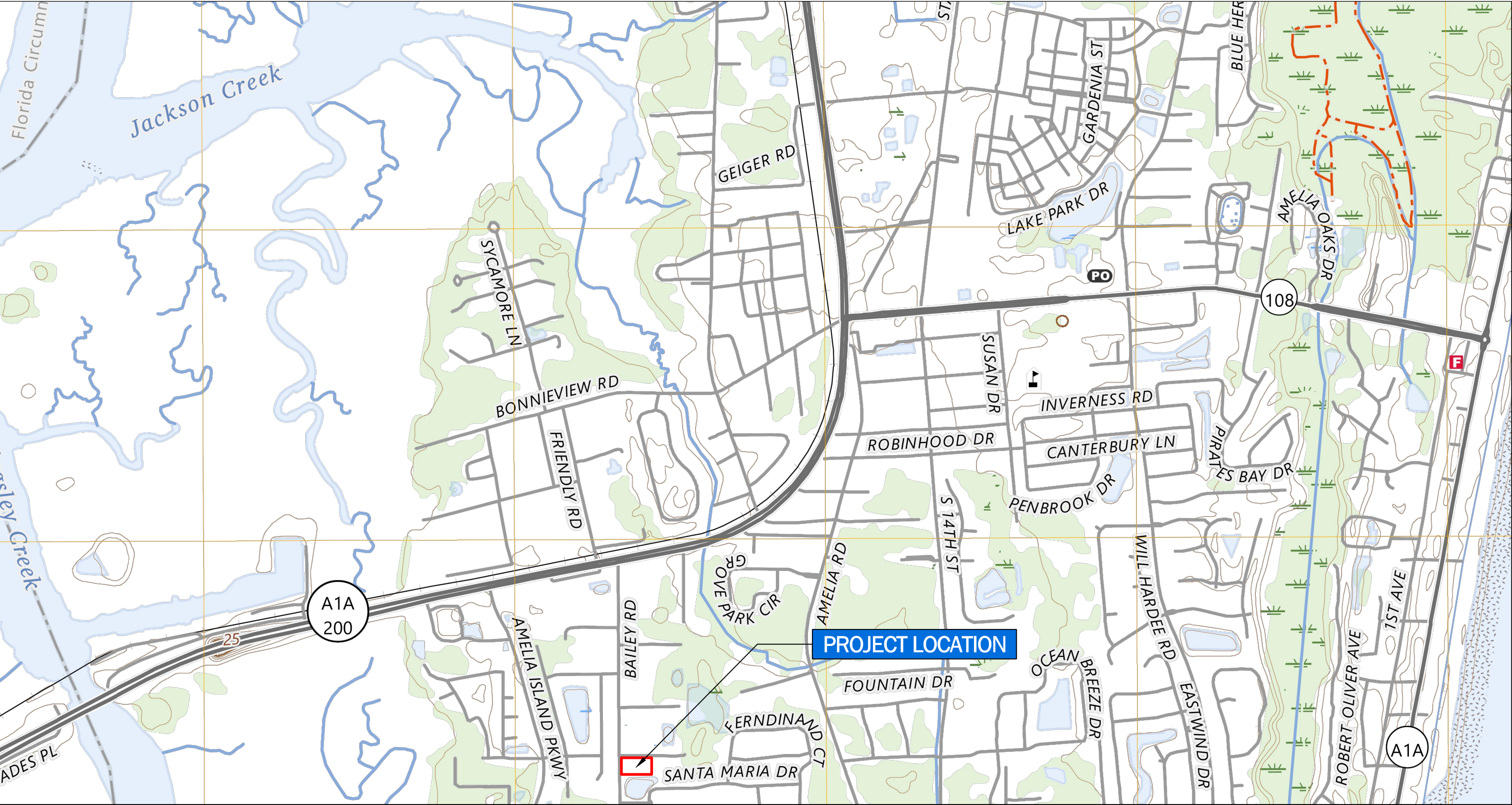


Angelina X. Liu, P.E.
Geotechnical and Materials
Testing Group Leader
Florida License No. 99246



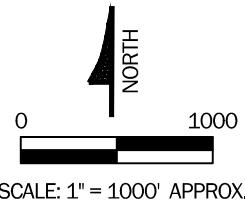
Jason E. Gowland., P.E.
Regional Director of Geotechnical
Engineering and Testing
Florida License No. 66467

Drawing No. 1
Topographic Vicinity Map



PROJECT NO.: 24-0244
DRAWN BY: AXL
APPROVED BY: JEG
DATE: 08/15/24

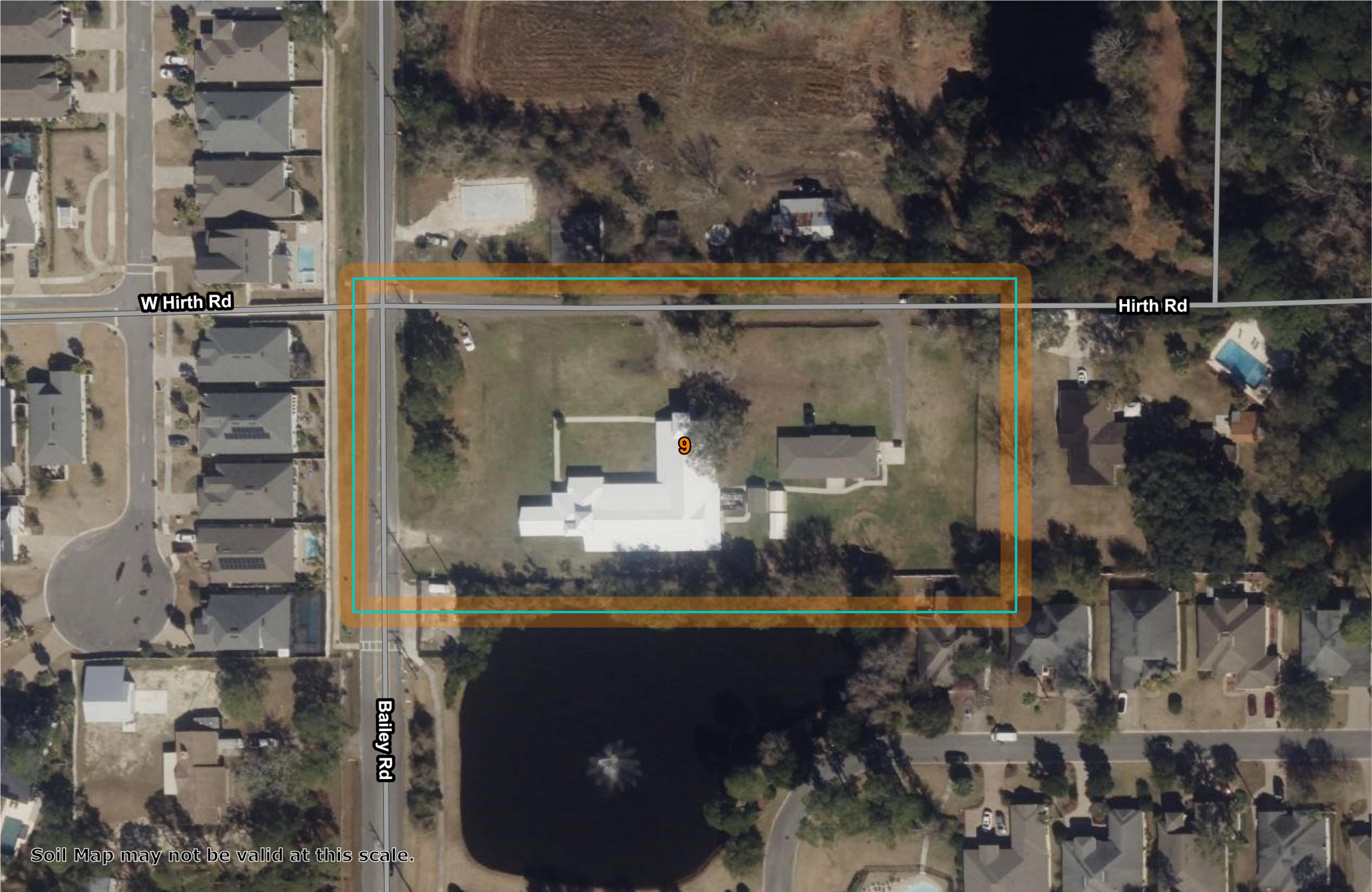
TOPOGRAPHIC VICINITY MAP



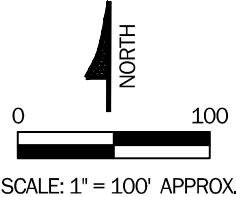
DRAWING
NO.

1

Drawing No. 2
USDA Soils Map



SOIL MAP INDEX - U.S.D.A. SOIL SURVEY ALACHUA COUNTY, FLORIDA
9. LEON FINE SAND, 0 TO 2 PERCENT SLOPES

	PROJECT NO.: 24-0244 DRAWN BY: AXL APPROVED BY: JEG DATE: 08/15/24	U.S.D.A. SOIL MAP		DRAWING NO.
				2

Drawing No. 3

Site Plan Showing Approximate Locations

ATTACHMENTS

Attachment No. 1
Borings Logs and LBR Result



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

NV5 PROJECT NUMBER: 24-0244

NV5 PROJECT NAME: Christwalk Church - Fernandina Beach

CLIENT: Christwalk Church of God, Inc.

PROJECT LOCATION: Fernandina Beach, Nassau County, Florida

DATE PERFORMED: 7/26/2024

BORING ID A-1

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS:

LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft

CHECKED BY: AXL

▽ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

DATE PERFORMED: 7/26/2024

BORING ID A-2

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS:

LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft

CHECKED BY: AXL

▽ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

AB 2 PORTRAIT - GINT STD US.GDT - 8/14/24 15:49 - N:\2024\24-0244\DEPARTMENTS\07_GEO\TECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION
0.0					0.0				
		▽		(SP-SM) Dark brown SAND with silt			▽		(SP-SM) Dark brown SAND with silt
2.5	AU 1	▼			2.5	AU 1	▼		%PASS-200 = 5.3 MC = 29
	AU 2					AU 2			(SP-SM) Brown and gray SAND with silt
5.0				Bottom of borehole at 5.0 feet.	5.0				Bottom of borehole at 5.0 feet.

(Continued Next Page)



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

NV5 PROJECT NUMBER: 24-0244

NV5 PROJECT NAME: Christwalk Church - Fernandina Beach

CLIENT: Christwalk Church of God, Inc.

PROJECT LOCATION: Fernandina Beach, Nassau County, Florida

DATE PERFORMED: 7/26/2024

BORING ID A-3

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS:

LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft

CHECKED BY: AXL

▽ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

DATE PERFORMED: 7/26/2024

BORING ID A-4

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS:

LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft

CHECKED BY: AXL

▽ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

AB 2 PORTRAIT - GINT STD US.GDT - 8/14/24 15:49 - N:\2024\24-0244\DEPARTMENTS\07_GEO\TECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION
0.0					0.0				
		▽		(SP-SM) Dark brown SAND with silt			▽		(SP-SM) Brown and gray SAND with silt
	AU 1	▼				AU 1	▼		
2.5					2.5				
					3.0				
				(SP-SM) Pale brown SAND with silt					
	AU 2					AU 2			
5.0					5.0				
				Bottom of borehole at 5.0 feet.					Bottom of borehole at 5.0 feet.

(Continued Next Page)



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

NV5 PROJECT NUMBER: 24-0244
NV5 PROJECT NAME: Christwalk Church - Fernandina Beach
CLIENT: Christwalk Church of God, Inc.
PROJECT LOCATION: Fernandina Beach, Nassau County, Florida

DATE PERFORMED: 7/26/2024
DRILLING CONTRACTOR: Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY: LBW
AT TIME OF DRILLING 2.0 ft CHECKED BY: AXL
ESTIMATED SEASONAL HIGH 1.0 ft
NOTES

BORING ID A-5

DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION
0.0				
				(SP-SM) Brown and gray SAND with silt
				%PASS-200 = 6.3 MC = 19
2.5	AU 1			
	AU 2			
5.0				Bottom of borehole at 5.0 feet.



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

NV5 PROJECT NUMBER: 24-0244

NV5 PROJECT NAME: Christwalk Church - Fernandina Beach

CLIENT: Christwalk Church of God, Inc.

PROJECT LOCATION: Fernandina Beach, Nassau County, Florida

DATE PERFORMED: 7/26/2024

BORING ID P-1

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY: AXL

▽ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

DATE PERFORMED: 7/26/2024

BORING ID P-2

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY: AXL

▽ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION
0.0					0.0				
2.5	AU 1 PS	▽		(SP-SM) Dark brown SAND with silt %PASS-200 = 6.3 MC = 22 $k_h = 11 \text{ ft/day}$	2.5	AU 1	▽		(SP-SM) Dark brown SAND with silt
3.0					3.0				
5.0				(SP-SM) Pale brown and brown SAND with silt	5.0				(SP-SM) Pale brown and brown SAND with silt
7.5	AU 2				7.5	AU 2			
10.0					10.0				(SP-SM) Pale brown SAND with silt
12.5	AU 3				12.5	AU 3			
15.0				Bottom of borehole at 15.0 feet.	15.0				Bottom of borehole at 15.0 feet.

AB 2 PORTRAIT - GINT STD US.GDT - 8/19/24 10:20 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ

(Continued Next Page)



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

NV5 PROJECT NUMBER: 24-0244

NV5 PROJECT NAME: Christwalk Church - Fernandina Beach

CLIENT: Christwalk Church of God, Inc.

PROJECT LOCATION: Fernandina Beach, Nassau County, Florida

DATE PERFORMED: 7/26/2024

BORING ID P-3

DRILLING CONTRACTOR: Watson's Drilling LLC

GROUND WATER LEVELS:

LOGGED BY: LBW

▼ AT TIME OF DRILLING 2.0 ft

CHECKED BY: AXL

▼ ESTIMATED SEASONAL HIGH 1.0 ft

NOTES

DEPTH (ft)	SAMPLE ID	GROUNDWATER DEPTHS (ft)	GRAPHICAL LOG	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION
0.0				
2.5	AU 1 PS	▼ ▼		(SP-SM) Dark brown SAND with silt %PASS-200 = 5.6 MC = 22 $k_h = 15 \text{ ft/day}$
4.0				
5.0				(SP-SM) Pale brown and brown SAND with silt
7.5				
10.0	AU 2			
10.0				(SP-SM) Pale brown SAND with silt
12.5				
15.0	AU 3			
15.0				Bottom of borehole at 15.0 feet.

AB 2 PORTRAIT - GINT STD US.GDT - 8/19/24 10:20 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

BORING ID B-1

NV5 PROJECT NUMBER: 24-0244
NV5 PROJECT NAME: Christwalk Church - Fernandina Beach
CLIENT: Christwalk Church of God, Inc.
PROJECT LOCATION: Fernandina Beach, Nassau County, Florida
GROUND WATER LEVELS:
▼ AT TIME OF DRILLING: 2.0 ft
▼ ESTIMATED SEASONAL HIGH: 1.0 ft

DRILLING CONTRACTOR: Watson's Drilling LLC
DRILLING METHOD: Mud Rotary
DATE STARTED: 7/26/24
DATE COMPLETED: 7/26/24
GROUND ELEVATION:
HOLE SIZE:
LOGGED BY: LBW CHECKED BY: AXL
NOTES:

SPT BORINGS - GINT STD US GDT - 8/14/24 15:51 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	SPT N-VALUE	▲ SPT N VALUE ▲	GRAPHICAL LOG	GROUNDWATER DEPTHS (ft)	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	ORGANIC CONTENT, %
0			10 20 30 40										
	AU 1				▽	(SP-SM) Brown and gray SAND with silt		6.2	27				
	AU 2				▼	(SP-SM) Gray SAND with silt	2						
							4						
5	SPT 3	3-4-3-3 (7)				(SP-SM) Loose brown and gray SAND with silt							
	SPT 4	4-3-3-5 (6)					6						
	SPT 5	5-5-4-5 (9)				(SP-SM) Loose to medium dense pale brown and brown SAND with silt							
10													
	SPT 6	6-9-9 (18)											
15													
	SPT 7	5-8-8 (16)											
20						Bottom of borehole at 20.0 feet.	20						



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

BORING ID B-2

NV5 PROJECT NUMBER: 24-0244
NV5 PROJECT NAME: Christwalk Church - Fernandina Beach
CLIENT: Christwalk Church of God, Inc.
PROJECT LOCATION: Fernandina Beach, Nassau County, Florida
GROUND WATER LEVELS:
▼ AT TIME OF DRILLING: 2.0 ft
▼ ESTIMATED SEASONAL HIGH: 1.0 ft

DRILLING CONTRACTOR: Watson's Drilling LLC
DRILLING METHOD: Mud Rotary
DATE STARTED: 7/26/24
DATE COMPLETED: 7/26/24
GROUND ELEVATION:
HOLE SIZE:
LOGGED BY: LBW CHECKED BY: AXL
NOTES:

SPT BORINGS - GINT STD US GDT - 8/14/24 15:51 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	SPT N-VALUE	▲ SPT N VALUE ▲	GRAPHICAL LOG	GROUNDWATER DEPTHS (ft)	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	ORGANIC CONTENT, %
0			10 20 30 40										
	AU 1				▽	(SP-SM) Loose dark brown and gray SAND with silt							
	AU 2				▼								
5	SPT 3	4-5-5-6 (10)											
	SPT 4	4-5-4-4 (9)											
	SPT 5	6-6-5-6 (11)											
10						(SP-SM) Loose to medium dense pale brown and brown SAND with silt	8						
	SPT 6	7-8-11 (19)											
15													
	SPT 7	6-8-7 (15)											
20						Bottom of borehole at 20.0 feet.	20						



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

BORING ID B-3

NV5 PROJECT NUMBER: 24-0244
NV5 PROJECT NAME: Christwalk Church - Fernandina Beach
CLIENT: Christwalk Church of God, Inc.
PROJECT LOCATION: Fernandina Beach, Nassau County, Florida
GROUND WATER LEVELS:
▼ AT TIME OF DRILLING: 2.0 ft
▼ ESTIMATED SEASONAL HIGH: 1.0 ft

DRILLING CONTRACTOR: Watson's Drilling LLC
DRILLING METHOD: Mud Rotary
DATE STARTED: 7/26/24
DATE COMPLETED: 7/26/24
GROUND ELEVATION:
HOLE SIZE:
LOGGED BY: LBW CHECKED BY: AXL
NOTES:

SPT BORINGS - GINT STD US.GDT - 8/14/24 15:51 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	SPT N-VALUE	▲ SPT N VALUE ▲	GRAPHICAL LOG	GROUNDWATER DEPTHS (ft)	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	ORGANIC CONTENT, %
0			10 20 30 40										
	AU 1				▽	(SP-SM) Loose brown and gray SAND with silt							
	AU 2				▼		4						
5	SPT 3	4-5-5-6 (10)				(SP) Loose to medium dense pale brown and brown SAND		3.1	24				
	SPT 4	4-5-4-4 (9)											
	SPT 5	5-6-6-7 (12)											
10													
	SPT 6	5-5-6 (11)											
15													
	SPT 7	5-8-6 (14)											
20						Bottom of borehole at 20.0 feet.	20						



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

BORING ID B-4

NV5 PROJECT NUMBER: 24-0244
NV5 PROJECT NAME: Christwalk Church - Fernandina Beach
CLIENT: Christwalk Church of God, Inc.
PROJECT LOCATION: Fernandina Beach, Nassau County, Florida
GROUND WATER LEVELS:
▼ AT TIME OF DRILLING: 3.0 ft
▼ ESTIMATED SEASONAL HIGH: 1.0 ft

DRILLING CONTRACTOR: Watson's Drilling LLC
DRILLING METHOD: Mud Rotary
DATE STARTED: 7/26/24
DATE COMPLETED: 7/26/24
GROUND ELEVATION:
HOLE SIZE:
LOGGED BY: LBW
CHECKED BY: AXL
NOTES:

SPT BORINGS - GINT STD US GDT - 8/14/24 15:51 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	SPT N-VALUE	▲ SPT N VALUE ▲	GRAPHICAL LOG	GROUNDWATER DEPTHS (ft)	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	ORGANIC CONTENT, %
0			10 20 30 40										
	AU 1				▽	(SP-SM) Brown and gray SAND with silt							
	AU 2				▽	(SP-SM) Loose to medium dense brown SAND with silt	2						
5	SPT 3	3-4-3-3 (7)											
	SPT 4	3-4-4-5 (8)											
	SPT 5	5-6-5-6 (11)											
10													
	SPT 6	4-4-6 (10)											
15													
	SPT 7	7-9-9 (18)											
20						Bottom of borehole at 20.0 feet.	20						



11801 Research Drive
Alachua, Florida, 32615
Telephone: (352) 331-1976
NV5 BEYOND ENGINEERING

BORING ID B-5

NV5 PROJECT NUMBER: 24-0244
NV5 PROJECT NAME: Christwalk Church - Fernandina Beach
CLIENT: Christwalk Church of God, Inc.
PROJECT LOCATION: Fernandina Beach, Nassau County, Florida
GROUND WATER LEVELS:
▼ AT TIME OF DRILLING: 2.0 ft
▼ ESTIMATED SEASONAL HIGH: 1.0 ft

DRILLING CONTRACTOR: Watson's Drilling LLC
DRILLING METHOD: Mud Rotary
DATE STARTED: 7/26/24
DATE COMPLETED: 7/26/24
GROUND ELEVATION:
HOLE SIZE:
LOGGED BY: LBW CHECKED BY: AXL
NOTES:

SPT BORINGS - GINT STD US.GDT - 8/14/24 15:51 - N:\2024\24-0244\DEPARTMENTS\07_GEOTECH\BORINGS\24-0244 BORINGS.GPJ

DEPTH (ft)	SAMPLE ID	SPT N-VALUE	▲ SPT N VALUE ▲	GRAPHICAL LOG	GROUNDWATER DEPTHS (ft)	VERSUAL CLASSIFICATIONS MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	ORGANIC CONTENT, %
0			10 20 30 40										
	AU 1				▽	(SP-SM) Dark brown SAND with silt							
	AU 2				▼		4						
5	SPT 3	3-4-3-3 (7)				(SP) Pale brown and brown SAND		2.5	27				
	SPT 4	4-5-5-4 (10)											
	SPT 5	4-4-5-4 (9)					10						
10						(SP) Pale brown SAND							
	SPT 6	4-4-5 (9)											
15													
	SPT 7	6-5-8 (13)					20						
20						Bottom of borehole at 20.0 feet.							

Unit of Measure: ☒ U.S. ☐ Metric

Mold ID / Weight: .0 lbs

Mold Factor / Volume: .00 ft³

Mold Area / Height: 0 0 in² / in

Color: Dark Grey/Grey

Rpt per: FM5-515

Graphing Method: ☐ Standard ☒ Enhanced

Plot: ☐ Points ☐ Curve ☒ Both ☐ Rpt Zero Void Line

Soil Description: Sand with traces of clay

Processed By: Jim Bailey

Tested By: Jim Bailey

Calculated & Plotted By: Josue Guer

Calibration Weight #: 0 lbs

Standard Method: ☐ A ☐ B ☐ C ☒ D

Preparation Method: ☒ Dry ☐ Moist

Rammer Description: ☒ Mechanical ☐ Manual

Oversize Correct: ☐ Yes ☒ No Percent Of:

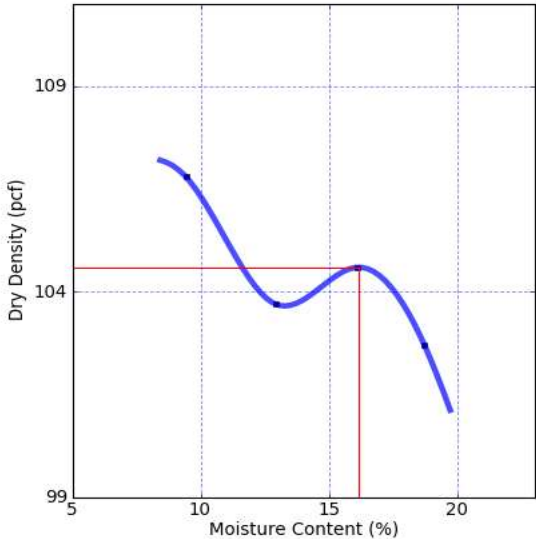
Opt / Max: 16.1% / 104.6 lbs/cu ft

Specific Gravity:

Percent Mositure:

Graph:

Mold ID	Mold Weight (lbs)	Mold Volume (ft³)	Scale Tare (lbs)	Mold + Soil + Tare (lbs)	Net Soil Wt (lbs)	Wet Density lbs/cu.ft.	Moisture Tare (gm)	Wet Wt + Tare (gm)	Dry Wt + Tare (gm)	Water Wt (gm)	Final Moisture %	Dry Density lbs/cu.ft.	LBR
	9.51	.0750	.00	18.27	8.76	116.8	496.9	1,016.7	972.2	44.5	9.4%	106.8	23
	9.45	.0750	.00	18.23	8.78	117.1	510.4	1,034.0	974.0	60.0	12.9%	103.7	25
	9.54	.0750	.00	18.65	9.11	121.5	508.6	1,014.1	943.9	70.2	16.1%	104.6	22
	9.50	.0750	.00	18.64	9.14	121.9	506.8	1,043.0	958.6	84.4	18.7%	102.7	10



Attachment No. 2

Key to Soil Classification Chart

KEY TO SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COURSE GRAINED SOILS More than 50% retained on No. 200 sieve	GRAVEL More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS Less than 5% fines		GW	WELL-GRADED GRAVEL, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES More than 12% fines		GP	POORLY-GRADED GRAVELS, GRAVELS - SAND MIXTURES, LITTLE OR NO FINES
	SAND More than 50% of coarse fraction retained on No. 4 sieve	CLEAN SANDS Less than 5% fines		SW	WELL-GRADED SAND, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES 5% ≤ fines < 12%		SP	POORLY-GRADED SAND, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES 12% ≤ fines < 30%		SP-SM	SAND WITH SILT
		SANDS WITH FINES 12% ≤ fines < 30%		SP-SC	SAND WITH CLAY
		SANDS WITH FINES 30% ≤ fines < 50%		SM	SILTY SAND, SAND - SILTY MIXTURES
		SANDS WITH FINES 30% ≤ fines < 50%		SC	CLAYEY SAND, SAND - CLAY MIXTURES
		SANDS WITH FINES 30% ≤ fines < 50%		SM	VERY SILTY SAND
		SANDS WITH FINES 30% ≤ fines < 50%		SC/CL-CH	VERY CLAYEY SAND
	CLAYS	50% ≤ fines < 70%		CL/CH	SANDY CLAY
		70% ≤ fines < 85%		CL/CH	CLAY WITH SAND
		85% ≤ fines		CL/CH	CLAY
FINE GRAINED SOILS More than 50% passed on No. 200 sieve	SILTS AND CLAYS LL < 50	PI < 4 or plots below "A" line		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SILGHT PLASTICITY
		PI > 7 and plots on/above "A" line		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAY
	SILTS AND CLAYS LL ≥ 50	PI plots below "A" line		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		PI plots on or above "A" line		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
		PI plots on or above "A" line		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		PI plots on or above "A" line		OH	ORGANIC CLAYES OF MEDIUM TO HIGH PLASSTICITY, ORGANIC SILTS
		PI plots on or above "A" line		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

CORRELATION OF PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY

	No. OF BLOWS N-VALUE	RELATIVE DENSITY
SANDS:	0 - 4	Very loose
	5 - 10	Loose
	11 - 30	Medium dense
	31 - 50	Dense
	OVER 50	Very dense
SILTS & CLAYS	0 - 2	Very soft
	3 - 4	Soft
	5 - 8	Firm
	9 - 15	Stiff
	16 - 30	Very stiff
LIMESTONES	31 - 50	Hard
	OVER 57	Very hard
	0 - 8	Very soft
	9 - 18	Soft
	19 - 32	Moderately Hard
	33 - 50	Hard
	OVER 50	Very hard

SAMPLE GRAPHIC TYPE LEGEND



Location of SPT Samples



Location of Auger Samples

PARTICLE SIZE IDENTIFICATION

BOULDERS:		Greater than 300 mm
COBBLES:		75 mm to 300 mm
GRAVEL:	Coarse -	19.0 mm to 75 mm
	Fine -	4.75 mm to 19.0 mm
SANDS:	Coarse -	2.00 mm to 4.75 mm
	Medium -	0.425 mm to 2.00 mm
	Fine -	0.075 mm to 0.425 mm
SILTS & CLAYS:		Less than 0.075 mm

Attachment No. 3

ASFЕ Guidelines for Geotechnical Report

Important Information about This Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, you can benefit from a lowered exposure to problems associated with subsurface conditions at project sites and development of them that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed herein, contact your GBA-member geotechnical engineer. Active engagement in GBA exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Understand the Geotechnical-Engineering Services Provided for this Report

Geotechnical-engineering services typically include the planning, collection, interpretation, and analysis of exploratory data from widely spaced borings and/or test pits. Field data are combined with results from laboratory tests of soil and rock samples obtained from field exploration (if applicable), observations made during site reconnaissance, and historical information to form one or more models of the expected subsurface conditions beneath the site. Local geology and alterations of the site surface and subsurface by previous and proposed construction are also important considerations. Geotechnical engineers apply their engineering training, experience, and judgment to adapt the requirements of the prospective project to the subsurface model(s). Estimates are made of the subsurface conditions that will likely be exposed during construction as well as the expected performance of foundations and other structures being planned and/or affected by construction activities.

The culmination of these geotechnical-engineering services is typically a geotechnical-engineering report providing the data obtained, a discussion of the subsurface model(s), the engineering and geologic engineering assessments and analyses made, and the recommendations developed to satisfy the given requirements of the project. These reports may be titled investigations, explorations, studies, assessments, or evaluations. Regardless of the title used, the geotechnical-engineering report is an engineering interpretation of the subsurface conditions within the context of the project and does not represent a close examination, systematic inquiry, or thorough investigation of all site and subsurface conditions.

Geotechnical-Engineering Services are Performed for Specific Purposes, Persons, and Projects, and At Specific Times

Geotechnical engineers structure their services to meet the specific needs, goals, and risk management preferences of their clients. A geotechnical-engineering study conducted for a given civil engineer

will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client.

Likewise, geotechnical-engineering services are performed for a specific project and purpose. For example, it is unlikely that a geotechnical-engineering study for a refrigerated warehouse will be the same as one prepared for a parking garage; and a few borings drilled during a preliminary study to evaluate site feasibility will not be adequate to develop geotechnical design recommendations for the project.

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project or purpose;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, the reliability of a geotechnical-engineering report can be affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If you are the least bit uncertain about the continued reliability of this report, contact your geotechnical engineer before applying the recommendations in it. A minor amount of additional testing or analysis after the passage of time – if any is required at all – could prevent major problems.*

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read the report in its entirety. Do not rely on an executive summary. Do not read selective elements only. *Read and refer to the report in full.*

You Need to Inform Your Geotechnical Engineer About Change

Your geotechnical engineer considered unique, project-specific factors when developing the scope of study behind this report and developing the confirmation-dependent recommendations the report conveys. Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the elevation, configuration, location, orientation, function or weight of the proposed structure and the desired performance criteria;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project or site changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept*

responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.

Most of the “Findings” Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site’s subsurface using various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing is performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgement to form opinions about subsurface conditions throughout the site. Actual site-wide subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team through project completion to obtain informed guidance quickly, whenever needed.

This Report’s Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, they are not final, because the geotechnical engineer who developed them relied heavily on judgement and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* exposed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals’ misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a continuing member of the design team, to:

- confer with other design-team members;
- help develop specifications;
- review pertinent elements of other design professionals’ plans and specifications; and
- be available whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction-phase observations.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note*

conspicuously that you’ve included the material for information purposes only. To avoid misunderstanding, you may also want to note that “informational purposes” means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. This happens in part because soil and rock on project sites are typically heterogeneous and not manufactured materials with well-defined engineering properties like steel and concrete. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled “limitations,” many of these provisions indicate where geotechnical engineers’ responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a “phase-one” or “phase-two” environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually provide environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures.* If you have not obtained your own environmental information about the project site, ask your geotechnical consultant for a recommendation on how to find environmental risk-management guidance.

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, the engineer’s services were not designed, conducted, or intended to prevent migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, *proper implementation of the geotechnical engineer’s recommendations will not of itself be sufficient to prevent moisture infiltration.* Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. *Geotechnical engineers are not building-envelope or mold specialists.*



**GEOPROFESSIONAL
BUSINESS
ASSOCIATION**

Telephone: 301/565-2733

e-mail: info@geoprofessional.org www.geoprofessional.org

CONSTRUCTION PLANS
FOR:
CHRISTWALK CHURCH
BUILDING ADDITION

CITY OF FERNANDINA BEACH
NASSAU COUNTY FLORIDA

SECTION 5, TOWNSHIP 2 NORTH, RANGE 28 EAST

SUBMITTED TO:
CITY OF FERNANDINA BEACH
NASSAU COUNTY

OWNER
CHRISTWALK CHURCH OF GOD
2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

SURVEYOR OF RECORD
AARON H. HICKMAN
CHW
11801 RESEARCH DRIVE
ALACHUA, FL. 32615
(352) 331-1976

ENGINEER OF RECORD
TRAVIS J. HASTAY P.E.
CHW
11801 RESEARCH DRIVE
ALACHUA, FL. 32615
(352) 331-1976

LANDSCAPE ARCHITECT
JOHN MICHAEL SIMPSON
CHW
11801 RESEARCH DRIVE
ALACHUA, FLORIDA 32615
(352) 331-1976

ARCHITECT
ELIZABETH C. GLASS
RARDIN AND CAROL ARCHITECTS, INC.
6105 PRESERVATION DRIVE - SUITE A
CHATTANOOGA, TN 37416
(423) 364-1443

DEVELOPMENT DATA

TAX PARCEL #: 00-00-30-044B-0045-0020		
DEVELOPMENT AREA:	86,928 S.F.	2.00 AC
BUILDING AREA:	9,530 S.F.	10.9%
ROADS/CURB/SIDEWALKS:	11,799 S.F.	13.6%
IMPERVIOUS AREA:	21,329 S.F.	24.5%
OPEN SPACE:	65,599 S.F.	75.5%
PROPOSED IMPERVIOUS SURFACE RATIO:	24.5%	
MAXIMUM IMPERVIOUS SURFACE RATIO:	60.0%	
PROPOSED FLOOR AREA RATIO:	10.9%	
MAXIMUM FLOOR AREA RATIO:	50.0%	
PROPOSED BUILDING HEIGHT:	32 FT	
MAXIMUM BUILDING HEIGHT:	35 FT	

GENERAL NOTES

EXISTING FUTURE LAND USE: LOW DENSITY RESIDENTIAL

EXISTING ZONING: R-1

DESCRIPTION: THE PROJECT CONSISTS OF AN ADDITION TO THE EXISTING CHIRSTWALK CHURCH BUILDING, ASSOCIATED SIDEWALKS, DRIVEWAY APRONS, ADA PARKING, AND UTILITY IMPROVEMENTS.

PARKING CALCULATION: SEE PROVIDED PARKING MEMO.

LANDSCAPING:

NUMBER OF PROTECTED TREES: 9

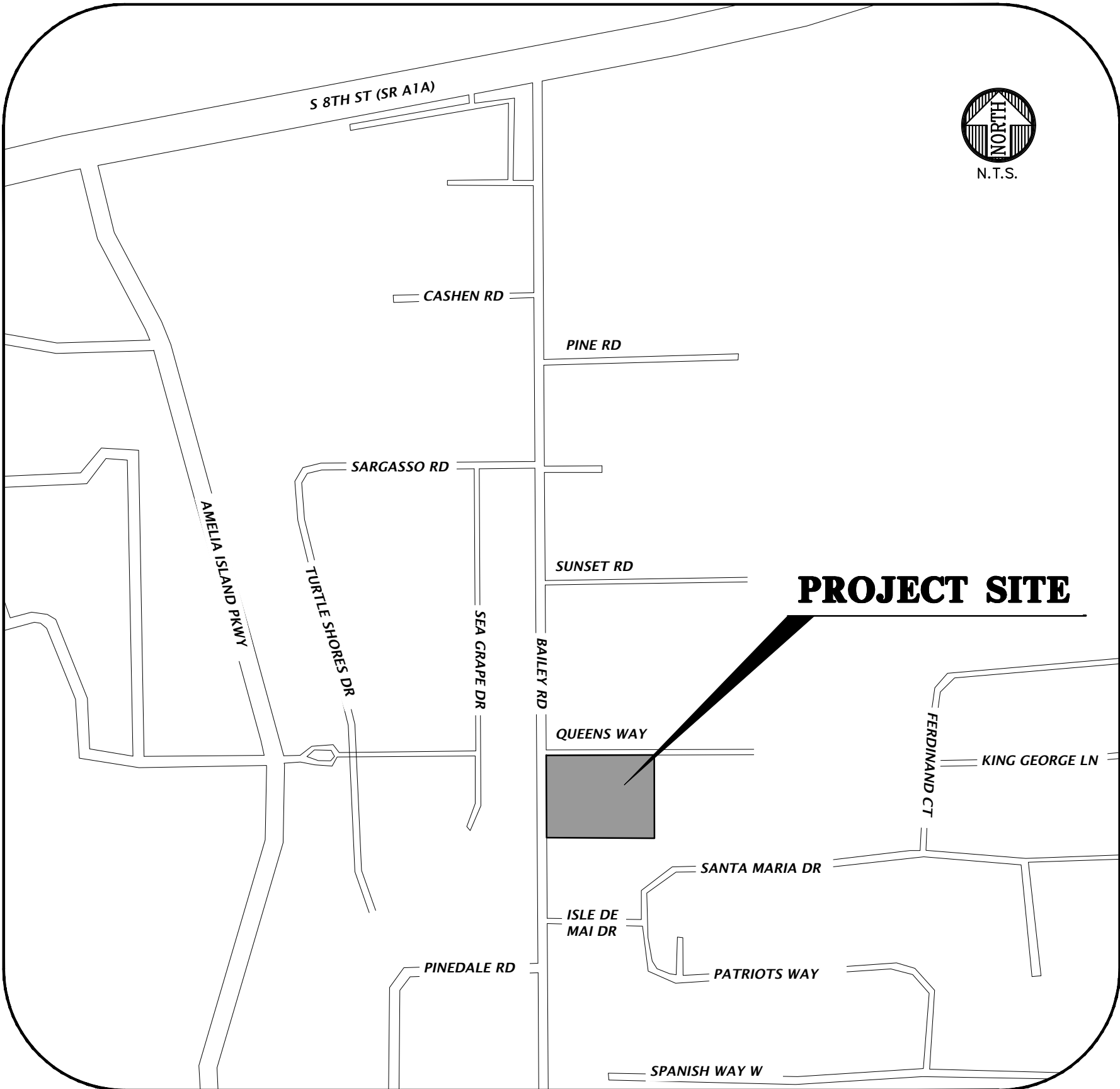
NUMBER OF TREES TO BE REMOVED: 5

NUMBER OF TREES TO BE PLANTED: 48

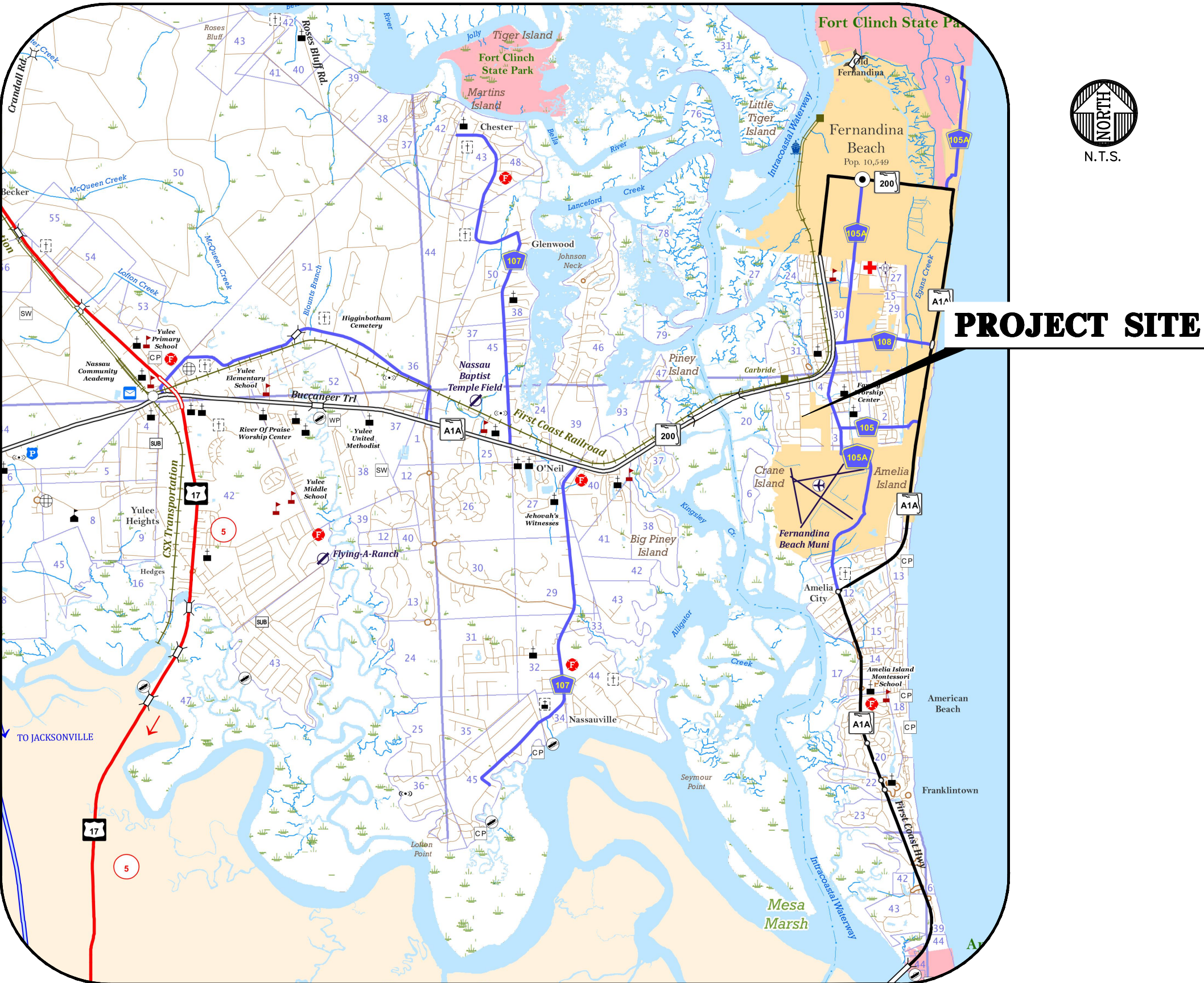
LEGAL DESCRIPTION: (OFFICIAL RECORDS BOOK 2103, PAGE 1353)

A PART OF LOT FORTY-FIVE (45), OCEAN BREEZE FARMS, AS RECORDED IN PLAT BOOK 2, PAGE 19, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF BEGINNING, COMMENCE AT THE NORTHWEST CORNER OF SAID LOT FORTY-FIVE (45); THENCE NORTH 89°37'00" EAST ALONG THE NORTH LINE OF SAID LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET; THENCE SOUTH 00°15'03" EAST, A DISTANCE OF 200.0 FEET; THENCE SOUTH 89°37'00" WEST PARALLEL TO THE AFOREMENTIONED NORTHERLY LINE OF LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET TO A POINT IN THE EASTERLY RIGHT OF WAY LINE OF BAILEY ROAD (A 66.0 FOOT RIGHT OF WAY, AS NOW ESTABLISHED), SAID LINE ALSO BEING THE WEST LINE OF SAID LOT FORTY-FIVE (45), THENCE NORTH 00°15'03" WEST ALONG THE WEST LINE OF LOT FORTY-FIVE (45), AND ALONG THE EAST RIGHT OF WAY LINE OF BAILEY ROAD, A DISTANCE OF 200.0 FEET TO THE POINT OF BEGINNING.



VICINITY MAP



LOCATION MAP

SHEET INDEX	
SHEET NUMBER	DESCRIPTION
C0.00	COVER SHEET AND INDEX
C0.10	GENERAL NOTES
C0.11	LEGEND
C0.20	STORMWATER POLLUTION PREVENTION NOTES
C0.21	STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
C0.30	DEMOLITION AND TREE PROTECTION PLAN
C1.00	DETAILED HORIZONTAL CONTROL AND SITE PLAN
C2.00	GRADING AND DRAINAGE PLAN
C2.30	CONSTRUCTION DETAILS
C3.10	DETAILED UTILITY PLAN
C3.20 - C3.21	UTILITY DETAILS
1 OF 1	BOUNDARY AND TOPOGRAPHIC SURVEY
A0-1 - A2-1	ARCHITECTURAL FLOOR PLAN(S)/ELEVATION(S)
LS-1 - LS-2	LANDSCAPE PLAN
IR-1 - IR-3	IRRIGATION PLAN

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE
DIGGING OR DISTURBING EARTH

Know what's below.
Call before you dig.

1-800-432-4770

11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com

CHW
AN NIVIS COMPANY

N/A
VERIFY SCALE
BAR IS ONE INCH ON
DRAWING, REPRESENTS
1" = 100' ON GROUND
IF NOT ONE INCH ON
DRAWING, VERIFY
SCALES ACCORDINGLY.

CLIENT: CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
SHAWM

PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH

DESIGNER: G. WADZINSKI
QUALITY CONTROL: C. MENHENTT, E.I.
PROJECT NUMBER: 24-0244

FL PE No. 84295
SHEET NO. C0.00

GENERAL NOTES

- THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM A PHOTOGRAPHIC SURVEY REPAIRED BY CHW, DATED MAY 6, 2024.
2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" 48 HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.
4. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
6. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.
9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.
11. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION TECHNIQUES.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND/OR SOILS ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE TESTING LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
13. INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR NEW SITE CONSTRUCTION. INSTALL SILT FENCE PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE COMPLETED WITHIN 24 HOURS.
14. ALL TREE BARRICADES AND SILT FENCING SHALL BE INSTALLED AND INSPECTED BY NASSAU COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
15. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
16. ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE AREAS.
17. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.
18. WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
19. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
20. THE COVERING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (FY 2024-25 ROAD CONSTRUCTION) AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED FY 2024-25, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.
21. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.
22. ALL STRIPING WITHIN THE NASSAU COUNTY RIGHT OF WAY SHALL BE PLACED FIRST AS TEMPORARY STRIPING FOLLOWED BY APPLICATION OF THERMOPLASTIC STRIPING 30 DAYS LATER.
23. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.
24. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.
25. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH THE NASSAU COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF SITE CONSTRUCTION.
26. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.
27. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THESE PLANS. DEWATERING SHALL BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, 2018 EDITION, SECTION 120.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COST OF ALL CLEARING AND GRUBBING AND ALL WORK OF REMOVAL, DISPOSAL, AND REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS WHERE SHOWN IN THE PLANS, OR ORDERED BY THE ENGINEER TO BE REMOVED, OR WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS, IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS (THIS INCLUDES BUT IS NOT LIMITED TO PROPOSED PIPING, STRUCTURES, UTILITIES, PAVING, CURBING, ETC.).
29. AN AS-BUILT SURVEY MAY BE REQUIRED BY REGULATORY AGENCIES. CONTRACTOR TO COORDINATE WITH PROJECT OWNER FOR COMPLETION OF AS-BUILT SURVEYS PRIOR TO PROJECT / PERMIT CLOSE-OUT.

MAINTENANCE OF TRAFFIC (MOT) NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR CREATING A MAINTENANCE OF TRAFFIC (MOT) PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE, SUCH AS CONNECTION TO SEWER MANHOLES AND WATER MAINS. THE MOT PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY THE FDOT MOT CERTIFICATION TRAINING. THE MOT PLAN MUST ALSO BE IN ACCORDANCE WITH FDOT STANDARD PLANS AND FDOT STANDARD SPECIFICATIONS REQUIREMENTS AND MUST BE REVIEWED AND APPROVED BY NASSAU COUNTY AND CITY OF FERNANDINA BEACH.
2. THE CONTRACTOR SHALL SUBMIT THE MOT TO THE APPROPRIATE REGULATORY AUTHORITY PRIOR TO WORK REQUIRING THE MOT FOR APPROVAL. NO WORK IN THE ROW SHALL OCCUR UNTIL THE MOT IS APPROVED.

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY AND IMMEDIATELY.
2. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE AND CONSTRUCTION DOCUMENT SPECIFICATIONS.
3. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH TRANSITION.
4. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.
5. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.
6. ALL ASPHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE CLEAN DEEP FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT GROWTH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.

PAVING, GRADING, AND DRAINAGE GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF-SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:
- A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED, AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (1) HORIZONTAL TO 1 (1) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.
- NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.
- B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- C. EXCAVATED STORMWATER FACILITIES SHALL BE CONSTRUCTED AS PART OF THE INITIAL CONSTRUCTION. THE FACILITIES SHALL BE ROUGH GRADED TO THE DESIGN ELEVATIONS. AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED, THE FACILITIES BOTTOM SHALL BE GRADED TO FINAL DESIGN GRADES. EXCESS AND UNSUITABLE SOILS SHALL BE REMOVED FROM THE BASIN (REMOVE ALL ACCUMULATED SILTS, CLAYS, ORGANIC, AND DEBRIS). FINALLY, SCARIFY AND RAKE BOTTOM AND VEGETATE.
- D. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.
- E. ALL SLOPES 1:3 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.
- F. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED. WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.
- G. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
4. THE CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
5. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.
6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.
7. CONTRACTOR IS TO SUBMIT FDOT APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT.
8. AS DETERMINED NECESSARY AND DIRECTED BY NASSAU COUNTY PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACKFILL WITH FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 120-002.
9. PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME ELEVATION. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED POSITION A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANEUVERING CLEARANCES AT DOORS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
10. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
- A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
- B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF STRAIGHT AND LEVEL CLEARANCE.
- C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"x60". IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL BE SHOWN ON THE SITE PLAN.
11. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.
12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS OR AS-BUILT SURVEY AS NOTED IN NOTE #29 UNDER SITE GENERAL NOTES.
13. ALL CONCRETE SIDEWALKS SHALL BE 2,500 PSI MINIMUM. CONCRETE PAVING SHALL BE 3,000 PSI MINIMUM.
14. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.
15. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT.
16. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY FDOT INDEX 524-001 AND FDOT INDEX 425- AND 430- SERIES AS APPROPRIATE. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT STANDARD PLANS ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.
18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.
19. ALL HOPE FITTINGS AND CONNECTORS SHALL BE WATER TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION.
20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RECORD.
21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430.

WATER AND WASTEWATER GENERAL NOTES

3. MATERIALS AND CONSTRUCTION METHODS FOR WATER AND WASTEWATER SYSTEMS SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL UTILITY EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY UTILITY FIELD LOCATION AND RELOCATION AS REQUIRED.
4. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.
5. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF PARTIES US THE CONTRACTOR'S RESPONSIBILITY.
6. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
7. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN SIX FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND GRAVITY OR PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN THREE FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND VACUUM WASTEWATER MAINS. A HORIZONTAL SEPARATION OF THREE FEET SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
8. WHEN POTABLE WATER MAINS CROSS OTHER PIPES, THE TWO PIPES SHALL HAVE JOINTS A MINIMUM OF SIX FEET FROM THE CROSSING. WHEN POTABLE WATER MAINS CROSS UNDERNEATH OTHER PIPES, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE GRAVITY AND VACUUM WASTEWATER MAINS, STORM SEWERS, AND STORMWATER FORCE MAINS, THE PREFERRED VERTICAL SEPARATION IS TWELVE INCHES AND THE MINIMUM VERTICAL SEPARATION IS SIX INCHES.
9. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
10. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.
11. ALL PVC WATER SERVICE LINES SHALL BE SCH 40 PVC.
12. THE SITE WORK CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED UNDERGROUND UTILITY AND EXCAVATION CONTRACTOR TO INSTALL THE NEW WATER SERVICE LINE.
13. ALL SANITARY SEWER SERVICE LATERALS SHALL BE 4" PVC SDR 35 OR 6" PVC SDR 35 WITH A CLEAN-OUT LOCATED PER THE PLANS. MINIMUM SLOPE FOR 4" LATERALS SHALL BE 1.0% AND A MINIMUM CLEANOUT SPACING OF 75 FEET ON-CENTER AND MINIMUM SLOPE FOR 6" LATERALS SHALL BE 0.6% AND A MINIMUM CLEANOUT SPACING OF 100 FEET ON-CENTER.
14. PUBLIC UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED FOR ALL UTILITIES SHOWN HEREON BY METES AND BOUND DESCRIPTION AND IN ACCORDANCE WITH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.

ELECTRIC SERVICE GENERAL NOTES

1. ALL ELECTRICAL UTILITIES AND INFORMATION SHOWN ON THE CIVIL PLANS ARE FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS BY OTHERS FOR THE ELECTRICAL DESIGN AND DETAILS.
2. ELECTRIC DESIGN PROVIDED BY OTHERS.

ABBREVIATIONS

SYMBOLS			
'	FEET (WHEN USED WITH LENGTHS)	N	NORTH
'	DEGREES	N-E	NORTHING - EASTING
'	MINUTES (WHEN USED WITH ANGLES)	N/A	NOT APPLICABLE
"	SECONDS	NAVD	NORTH AMERICAN VERTICAL DATUM OF 1988
%	PERCENT	NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
@	AT	NO	NUMBER
		NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
		NTS	NOT TO SCALE
		O	ON CENTER
A	ASSHTO ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	OHW	OVERHEAD WIRE
AC	ACRES	ORB	OFFICIAL RECORDS BOOK
ADA	AMERICAN WITH DISABILITIES ACT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE		
ARCH	ARCHITECT		
ARV	AIR RELEASE VALVE		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		
AWWA	AMERICAN WATER WORKS ASSOCIATION		
		P	PAVEMENT
		PC	POINT OF CURVATURE
BC	BACK OF CURB	PCC	POINT OF COMPOUND CURVE
BFP	BACKFLOW PREVENTER	PE	POLYETHYLENE
BLDG	BUILDING	PERF	PERFORATED
BM	BENCHMARK	PV	POST INDICATOR VALVE
BMP	BEST MANAGEMENT PRACTICE	PROP	PROPOSED
BOS	BACK OF CURB	PT	POINT OF TANGENCY
BVCS	BEGIN VERTICAL CURVE STATION	PVC	POLYVINYL CHLORIDE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PUE	PUBLIC UTILITY EASEMENT
BW	BOTTOM OF WALL	PVI	POINT OF VERTICAL INTERSECTION
BSL	BUILDING SETBACK LINE		
		R	RADIUS
CATV	CABLE TELEVISION	RCP	REINFORCED CONCRETE PIPE
CI	CURB INLET	RPM	RAISED REFLECTIVE PAVEMENT MARKER
CP	CAST IRON PIPE	RPS	REDUCED PRESSURE ZONE
CLDIP	CEMENT LINE DUCTILE IRON PIPE	RT	RIGHT
CMP	CORRUGATED METAL PIPE	RWM	RECLAIMED WATER MAIN
CO	CLEANOUT	R/W	RIGHT-OF-WAY
CONC	CONCRETE		
COORD	COORDINATE	S	SOUTH
CR	COUNTY ROAD	SAN	SANITARY
C/O	CLEANOUT	SHWE	SEASONAL HIGH WATER ELEVATION
		SL	SLOPE
DBH	DIAMETER AT BREAST HEIGHT	SF	SILT FENCE
DE	DRAINAGE EASEMENT	SP	SUPERPAVE
DEG	DEGREE	SR	STATE ROAD
DIA	DIAMETER	SS	SANITARY SEWER
DIP	DUCTILE IRON PIPE	ST	STORM
DWG	DRAWING	STA	STATION
		STD	STANDARD
		T	TREE BARRICADE
E	RATE OF ELEVATION	TCE	TEMPORARY CONSTRUCTION EASEMENT
EA	EACH	TEMP	TEMPORARY
EL	ELEVATION	TOB	TOP OF BANK
ELEV	ELEVATION	TV	TELEVISION
EOP	EDGE OF PAVEMENT	TW	TOP OF WALL
EOR	ENGINEER OF RECORD	TYP	TYPICAL
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE		
ESMT	EASEMENT	U	UNITED STATES
EVCS	END VERTICAL CURVE STATION	USF	UNITED STATES FOUNDRY
EVCE	END VERTICAL CURVE ELEVATION	USGS	UNITED STATES GEOLOGICAL SURVEY
EX	EXISTING	UTIL	UTILITY
		V	VERTICAL
FAC	FLORIDA ADMINISTRATIVE CODE	VC	VERTICAL CURVE
FBR	FLORIDA BEARING RATIO	VCP	VITRIFIED CLAY PIPE
FC	FRICTION COURSE		
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION		
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	W	WEST
FFE	FINISHED FLOOR ELEVATION	W	WATER
FH	FIRE HYDRANT	W/	WITH
FWHA	FLORIDA HIGHWAY ADMINISTRATION	WM	WATER MAIN
FG	FIGURE	WW	WASTEWATER
FM	FORCE MAIN	WWF	WELDED WIRE FABRIC
FOC	FACE OF CURB		
FS	FLORIDA STATUTES		
FT	FEET		
		G	GALVANIZED
GALV	GALVANIZED	GM	GAS MAIN
GM	GAS MAIN	GV	GATE VALVE
GV	GATE VALVE		
		H	HIGH DENSITY POLYETHYLENE
HDPE	HIGH DENSITY POLYETHYLENE	HP	HIGH POINT
HP	HIGH POINT		
		I	IDENTIFICATION
ID	IDENTIFICATION	INV	INVERT
INV	INVERT	INV EL	INVERT ELEVATION
INV EL	INVERT ELEVATION	IP	IRON PIPE
IP	IRON PIPE		
		K	VERTICAL CURVE RATE OF CHANGE
K	VERTICAL CURVE RATE OF CHANGE		
		L	LENGTH
L	LENGTH	LA	LANDSCAPE ARCHITECT
LA	LANDSCAPE ARCHITECT	LBR	LIMEROCK BEARING RATIO
LBR	LIMEROCK BEARING RATIO	LDR	LAND DEVELOPMENT REGULATION
LDR	LAND DEVELOPMENT REGULATION	LF	LINEAR FEET
LF	LINEAR FEET	LP	LOW POINT
LP	LOW POINT	LT	LEFT
LT	LEFT		
		M	MAXIMUM
MAX	MAXIMUM	ME	MATCH EXISTING
ME	MATCH EXISTING	MH	MANHOLE
MH	MANHOLE	MIN	MINIMUM
MIN	MINIMUM	MISC	MISCELLANEOUS
MISC	MISCELLANEOUS	MJ	MECHANICAL JOINT
MJ	MECHANICAL JOINT	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES		

SIGNAGE

SIGNS ARE PER FDOT SPECIFICATIONS OR PER MUTCD. SIGN POSTS AND INSTALLATION SHALL BE PER FDOT INDEX NO. 700-010. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO. 700-101.

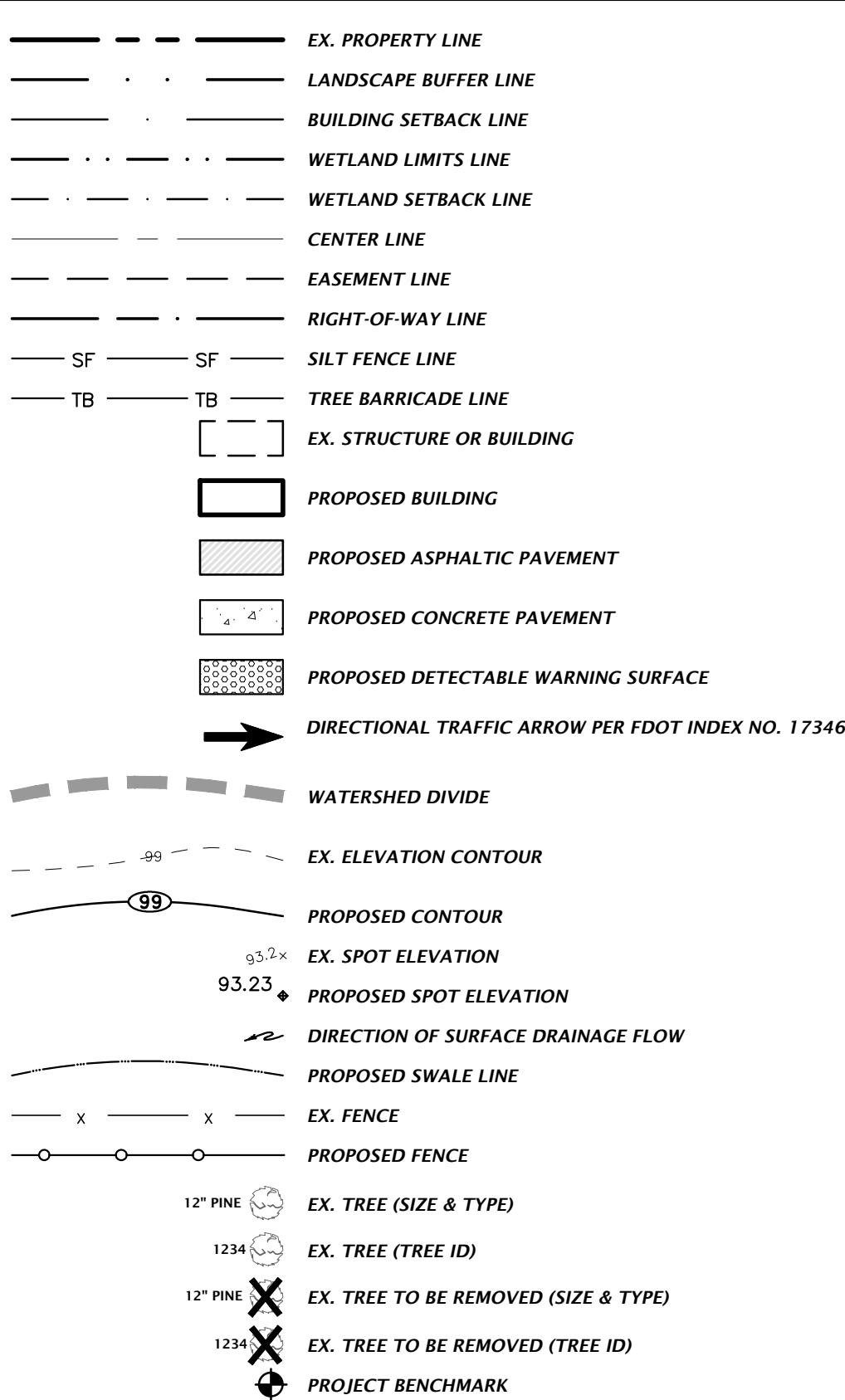


FTP-20-06 (12" X 18") PER FDOT INDEX NO. 700-102



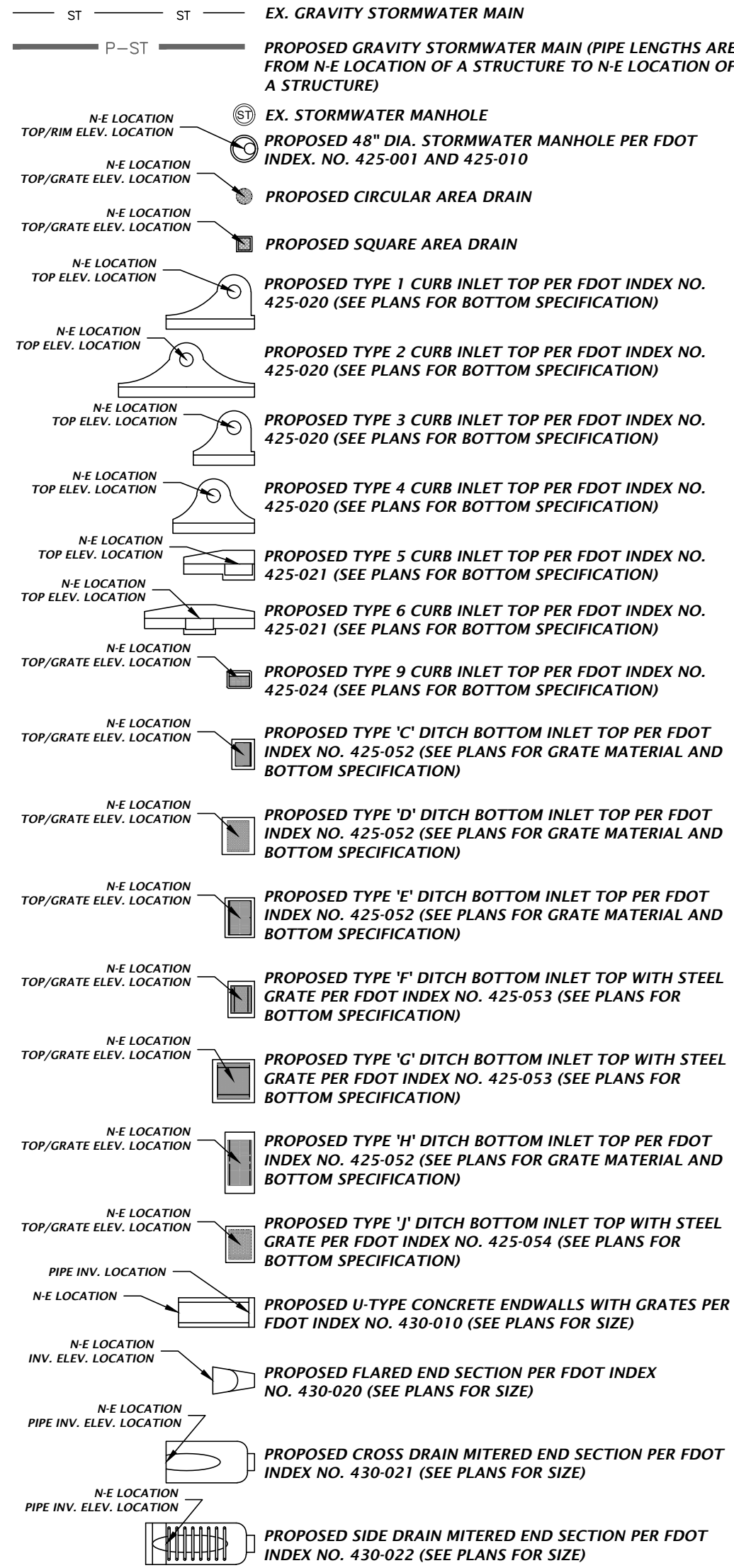
R1-1 "STOP" - SEE PLANS FOR SIZE

SITE INFORMATION



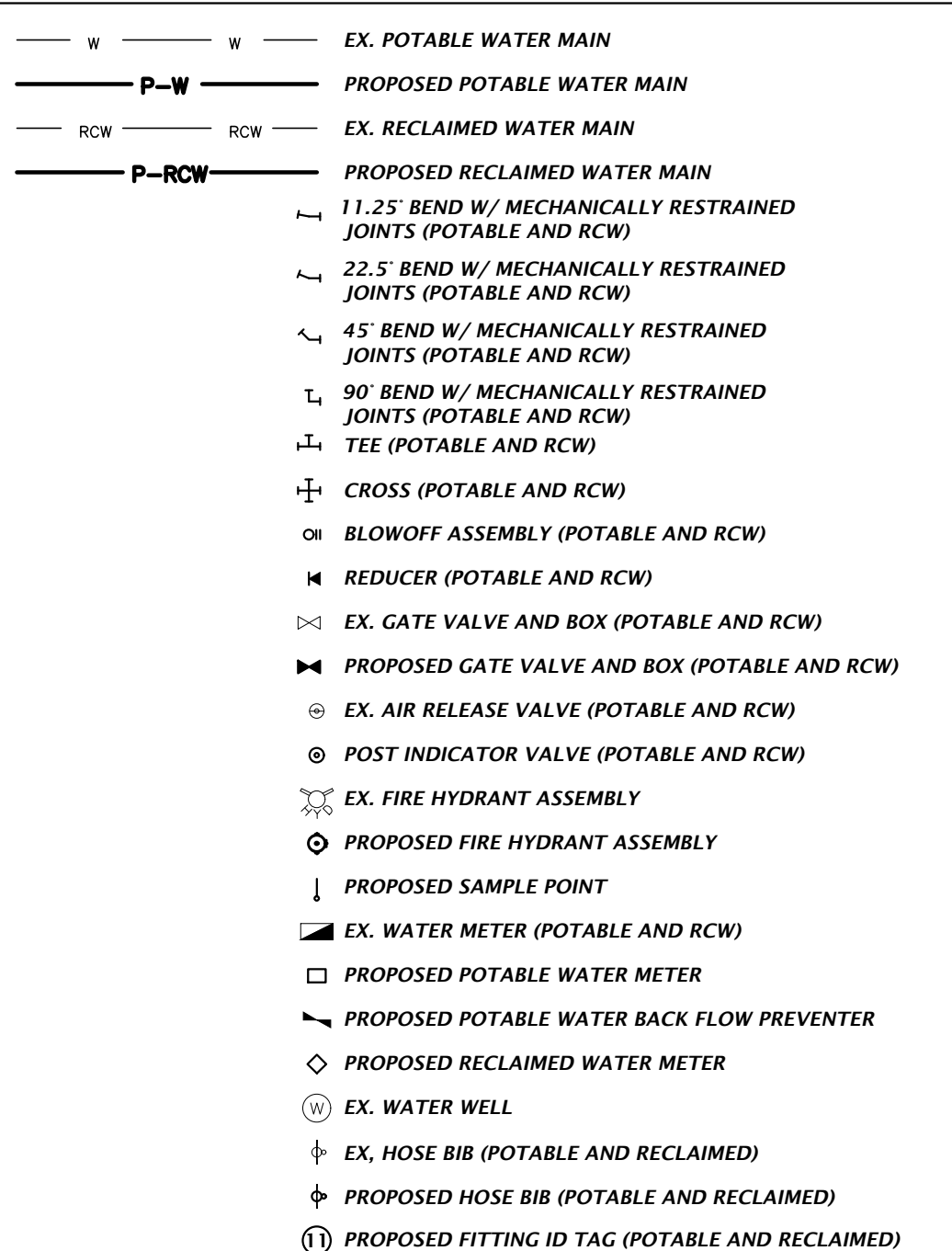
STORMWATER

THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.

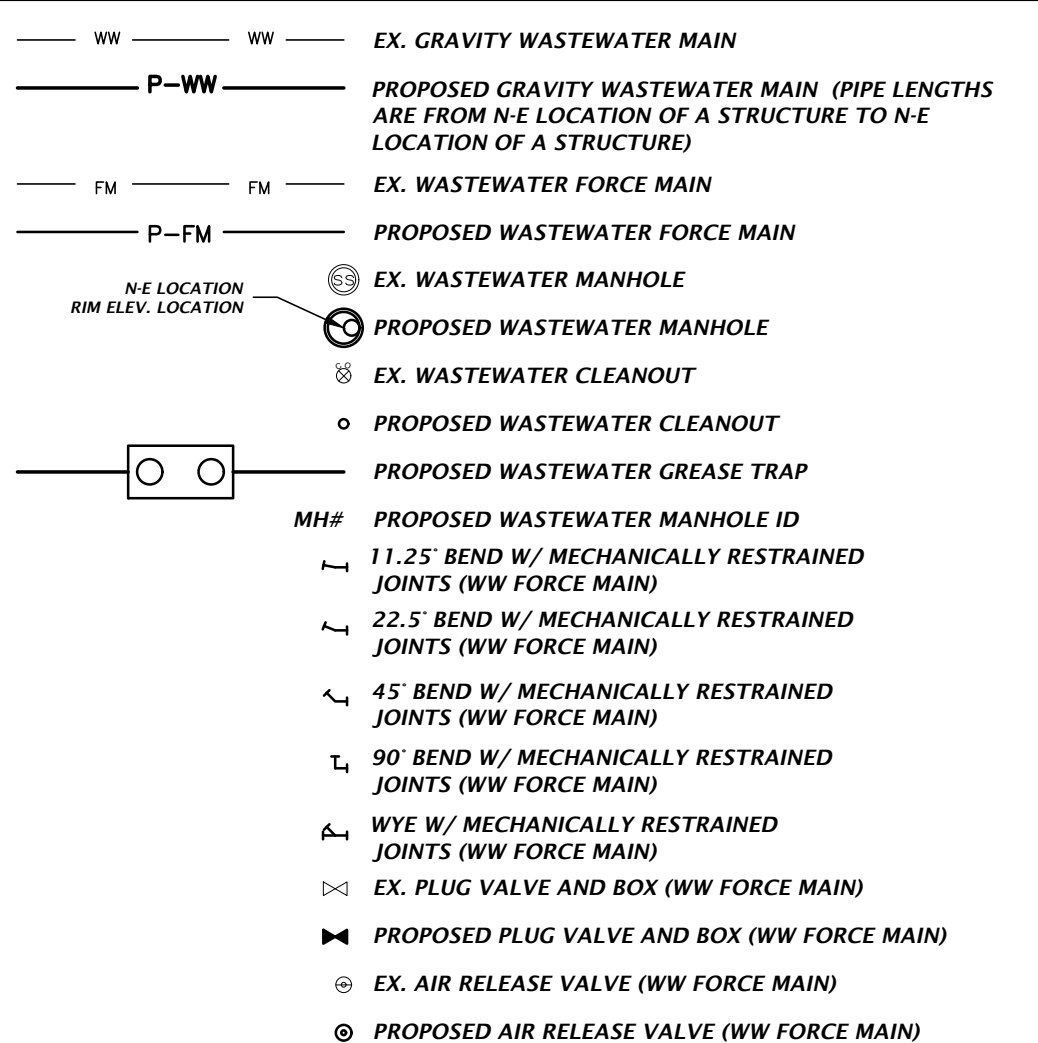


S-10 PROPOSED STORMWATER STRUCTURE ID TAG

POTABLE AND RECLAIMED WATER

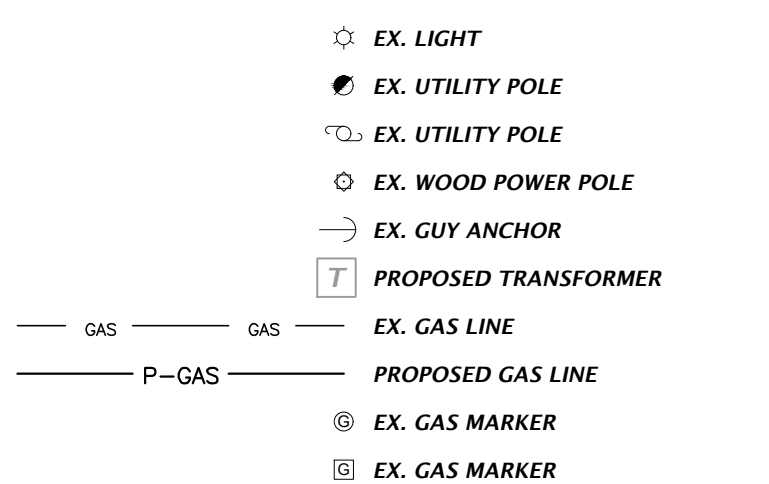
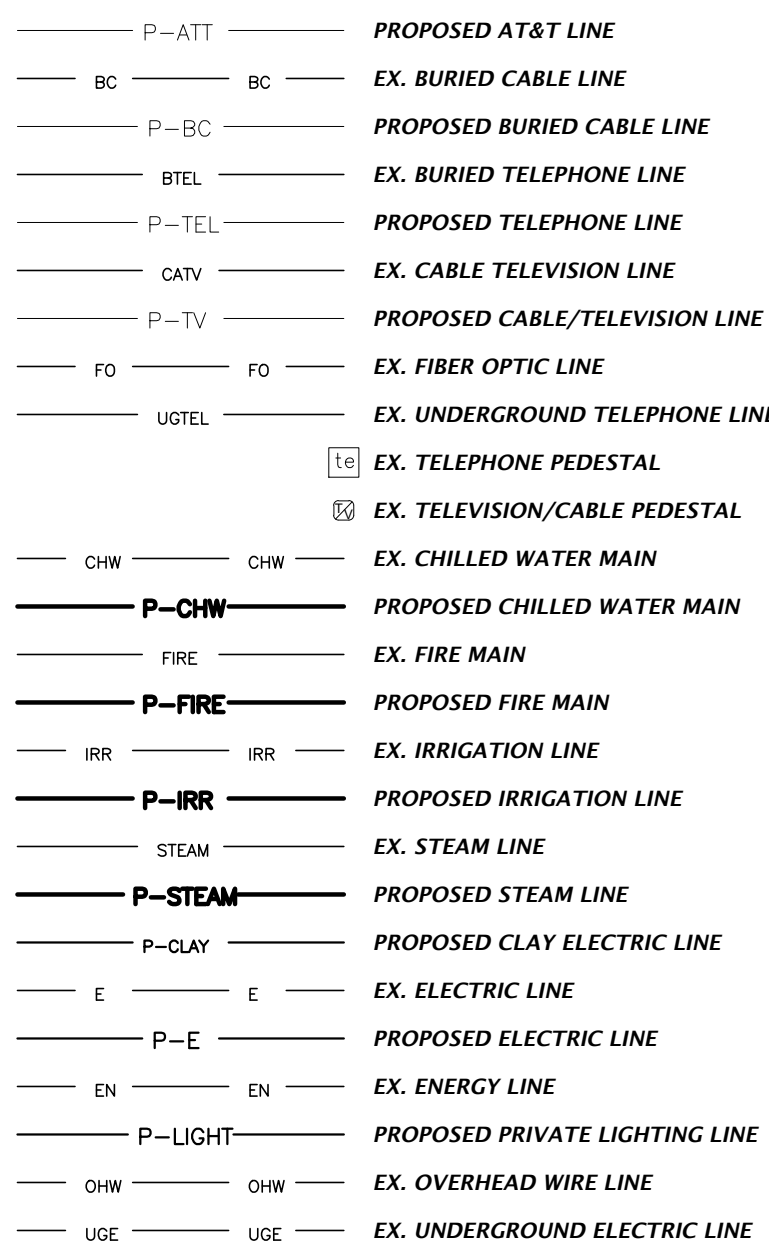


WASTEWATER



MISCELLANEOUS UTILITIES

THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT LOCATIONS, DIMENSION, AND DETAILS.



NOTES:
1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.
2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.

11801 Research Drive
Albany, Florida 32615
(352) 331-1976
www.ch2m-hill.com
est. 1988 FLORIDA
CA-5075

CH2M HILL
AN HWI COMPANY

N/A
VERIFY SCALE
BASE IS ONE INCH ON
DRAWING REPRESENTS
1" IF NOT ONE INCH ON
DRAWING, ALL DIMENSIONS
ARE IN FEET UNLESS
OTHERWISE SPECIFIED.

CONSTRUCTION AND REVISIONS

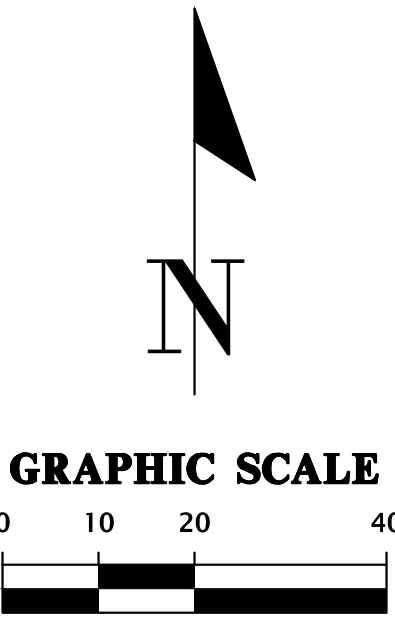
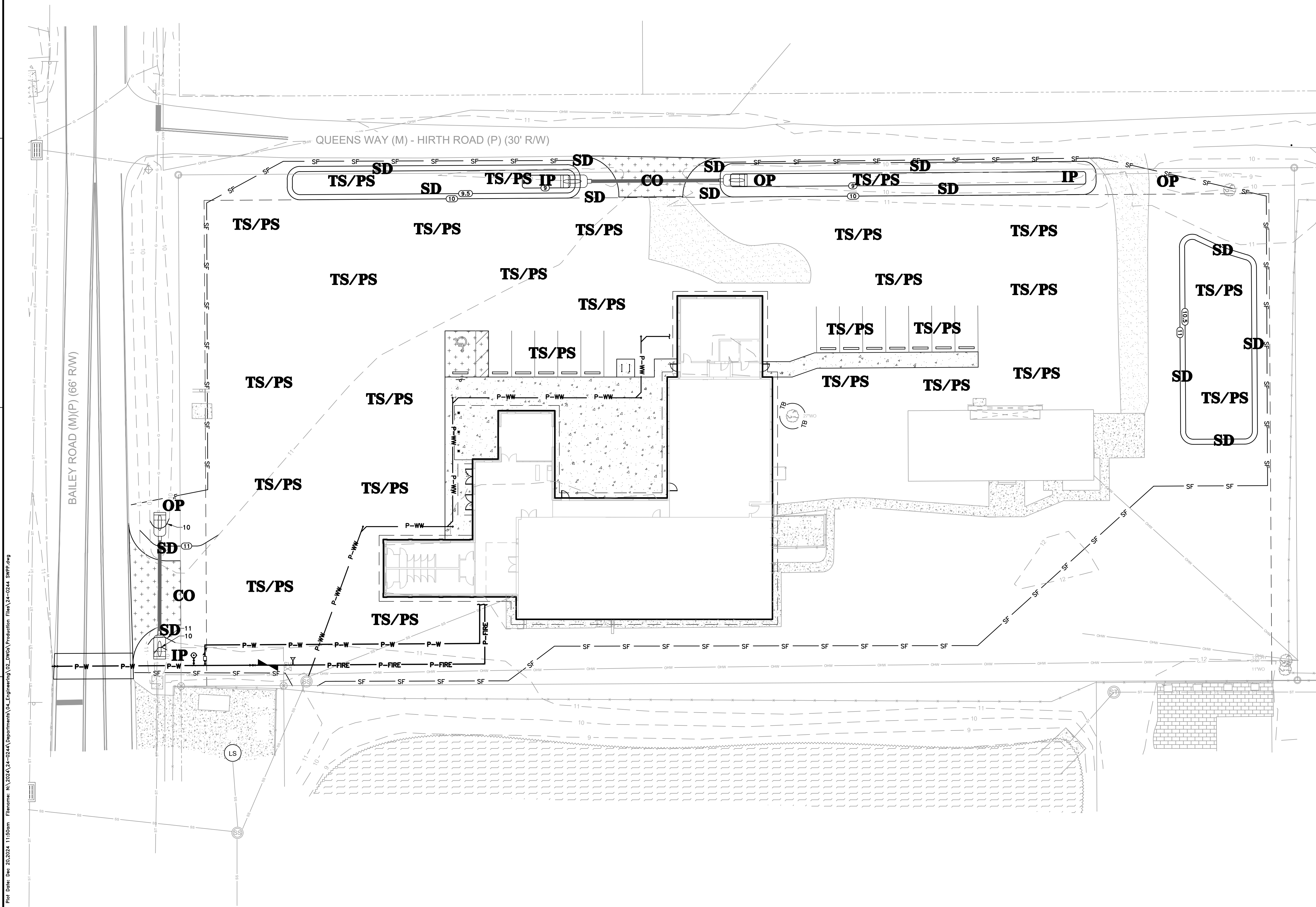
SUBMITTALS
12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
SHAWND

CLIENT
CHRISTWALK CHURCH
PROJECT
CHRISTWALK CHURCH
FERNANDINA BEACH
SHEET TITLE
LEGEND

TECHNICAL
G. WADZINSKI
DESIGNER
C. MEHRETT, E.L.
QUALITY CONTROL
T. HASTAY, P.E.
PROJECT NUMBER
24-0244

TRAVIS J. HASTAY

FL PE No. 84295
SHEET NO.
C0.11



STORMWATER POLLUTION PREVENTION LEGEND

- TS** = TEMPORARY SEEDING
- PS** = PERMANENT SEEDING
- ML** = MULCHING
- SD** = SOD STABILIZATION
- SF** = SILT BARRIER
- TB** = TREE BARRIER
- IP** = INLET PROTECTION
- OP** = OUTLET PROTECTION
- CO** = CONSTRUCTION ENTRANCE/EXIT

REFER TO C2.30 FOR DETAILS.

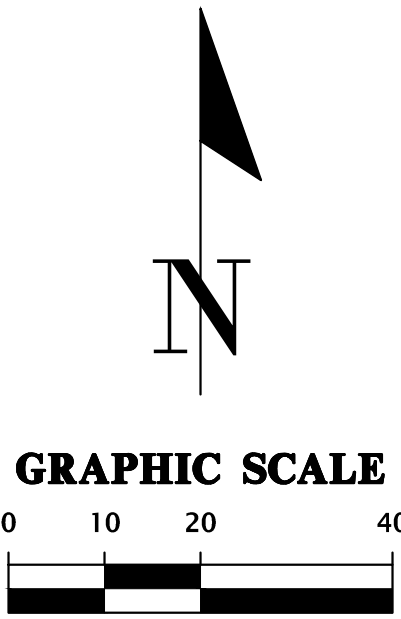
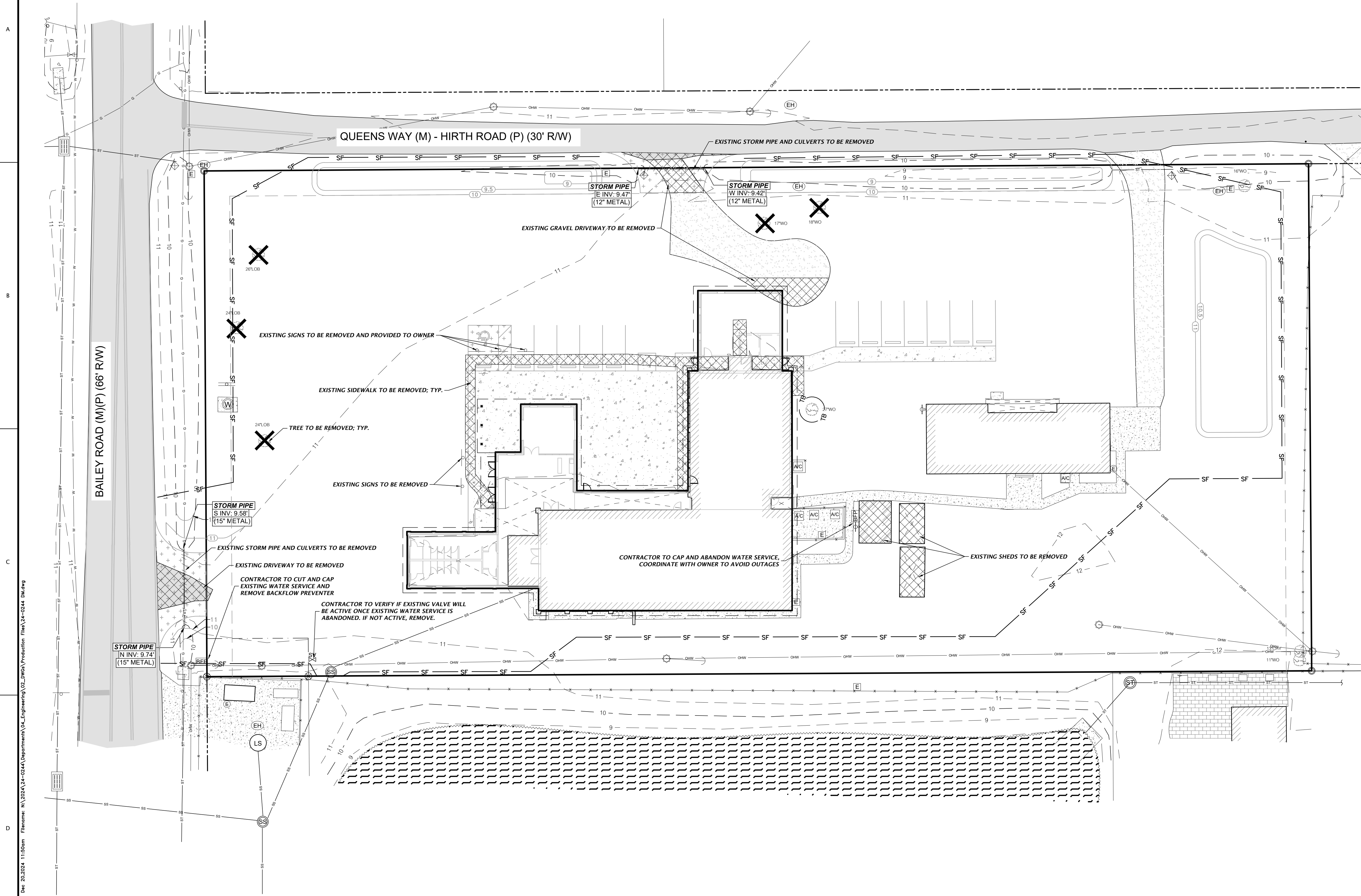
BASIN EROSION & SEDIMENTATION CONTROL

- SILT FENCING AND/OR SYNTHETIC HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.
- ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
- THE DRAINAGE BASINS SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE LIMEROCK BASE. THE RETENTION BASINS SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.
- THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
- ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
- REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.
- WHERE POND TOP OF BANK IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

Test: JerridP Plot Date: Dec 20, 2024 11:50am Filename: \\A:\2024\24-0244\Department\04_Engineering\02_DWG\Production\11a\24-0244_SWPP.dwg

11801 Research Drive Alhambra, Florida 32615 (352) 331-1976 www.dhw-inc.com	
est. 1988 FLORIDA CA-5075	
CHW AN NVIS COMPANY	
SCALE: 1"=20' VERIFY SCALE BAR IS ONE INCH ON DRAWING IF NOT ONE INCH ON DRAWING, VERIFY SIZES ACCORDINGLY	CONSTRUCTION EROSIONS
SUBMITTALS 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND SHAWND	
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH
DESIGNER: C. MEHRENNETT, E.I.	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
QUALITY CONTROL: T. HASTAY, P.E.	SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN
PROJECT NUMBER: 24-0244	
FL PE No. 84295	
SHEET NO. C0.21	

Test: jerryp Plot Date: Dec 20, 2024 11:50am Filename: \\A:\2024\24-0244\Department\04_Engineering\02_DWG\Production Files\24-0244_04.dwg



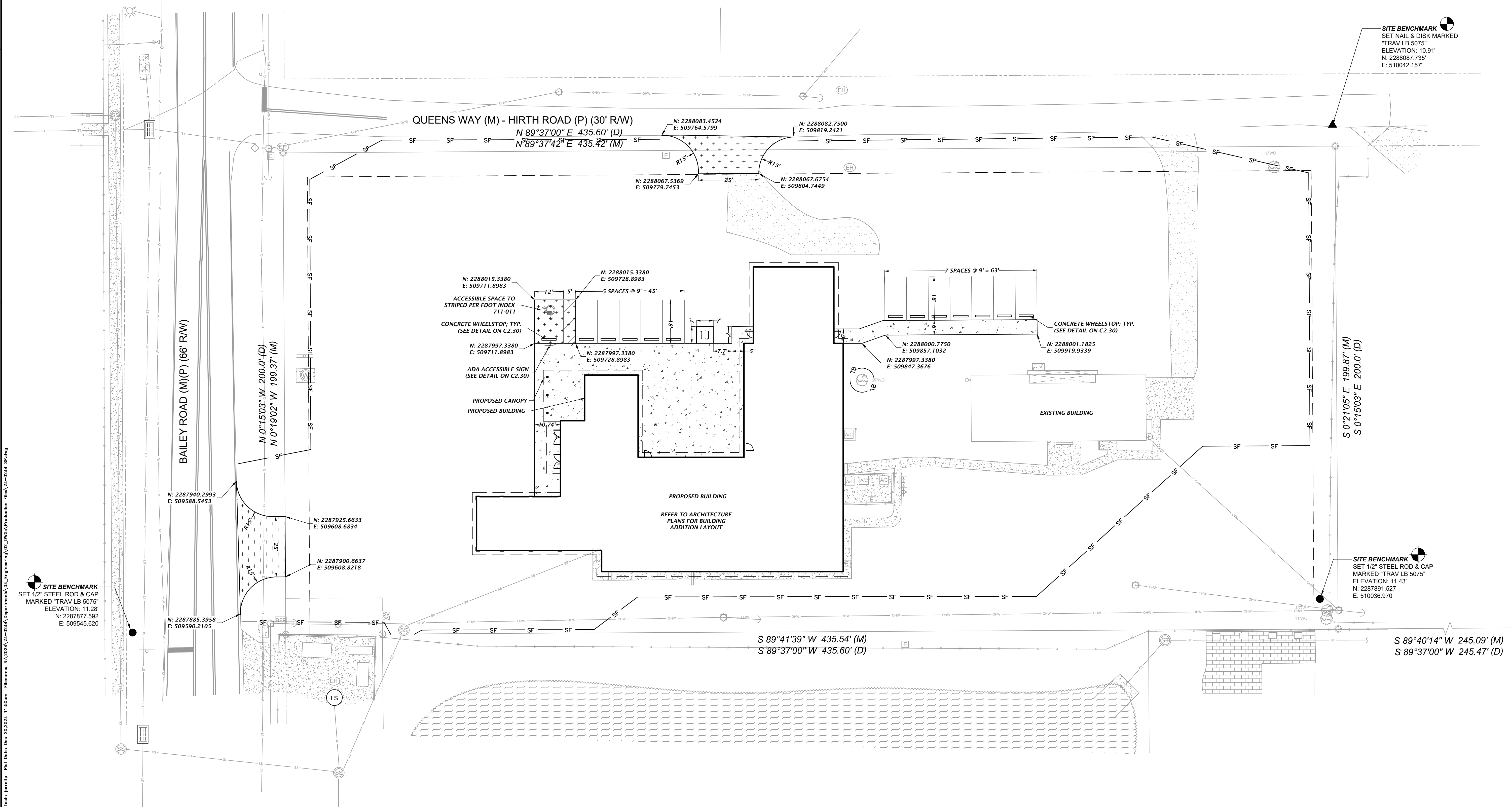
- LEGEND**
- EXISTING TREE TO BE REMOVED
 - EXISTING FEATURES TO BE REMOVED
 - TB TREE BARRICADE
 - SF SILT FENCE

- NOTES:**
- CONTRACTOR SHALL HAVE ALL SILT FENCE & TREE BARRICADES INSTALLED PRIOR TO ANY SITE WORK.
 - CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING OR BETTER CONDITION.
 - CONTRACTOR TO COORDINATE WITH DOH OR FDEP FOR PROPER REMOVAL AND DISPOSAL OF ANY EXISTING ONSITE SEPTIC SYSTEMS OR WELL SYSTEMS.
 - CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING ABOVE AND UNDERGROUND UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANY AS NEEDED TO SUPPORT POLES DURING CONSTRUCTION.
 - SEE SHEET C2.30 FOR DETAILS.

CH2M AN NVIS COMPANY		11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.ch2m-inc.com est. 1988 FLORIDA CA-5075	
SCALE: 1"=20'		VERIFY SCALE BAR IS ONE INCH ON DRAWING REPRESENTS 20 FEET IF NOT ONE INCH ON DRAWING, VERIFY SIZES ACCORDINGLY.	
SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND SHIMMO			
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH	DESIGNER: C. MEHRENETT, E.I.	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
TRAVIS J. HASTAY		QUALITY CONTROL: T. HASTAY, P.E.	SHEET TITLE: DEMOLITION PLAN
SHEET NUMBER: 24-0244		PROJECT NUMBER: 24-0244	
FL PE No. 84295		SHEET NO.: C0.30	

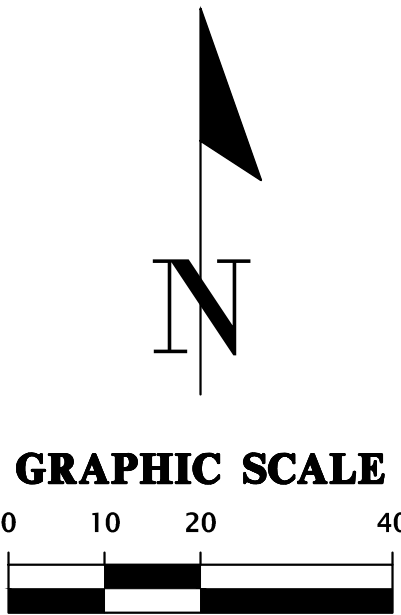
Test: JerridP Plot Date: Dec 20, 2024 11:50am Filename: \\A:\2024\24-0244\Department\02_DWG\Production Files\24-0244_02.dwg

A
B
C
D



- NOTES:**
- SEE SURVEY FOR BENCHMARK ELEVATIONS, LOCATIONS, AND DESCRIPTIONS.
 - CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
 - ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES IMPLEMENTATION ACT", ADA STANDARDS FOR ACCESSIBLE DESIGN, FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHERE APPLICABLE.

- LEGEND:**
- CONCRETE SIDEWALK (REFER TO C2.30 FOR DETAIL)
 - CONCRETE DRIVEWAY/PARKING (REFER TO C2.30 FOR DETAIL)



SITE BENCHMARK
SET NAIL & DISK MARKED
"TRAV LB 5075"
ELEVATION: 10.91'
N: 2288087.735'
E: 510042.157'

S 0°21'05" E 199.87' (M)
S 0°15'03" E 200.0' (D)

SITE BENCHMARK
SET 1/2" STEEL ROD & CAP
MARKED "TRAV LB 5075"
ELEVATION: 11.43'
N: 2287891.527'
E: 510036.970'

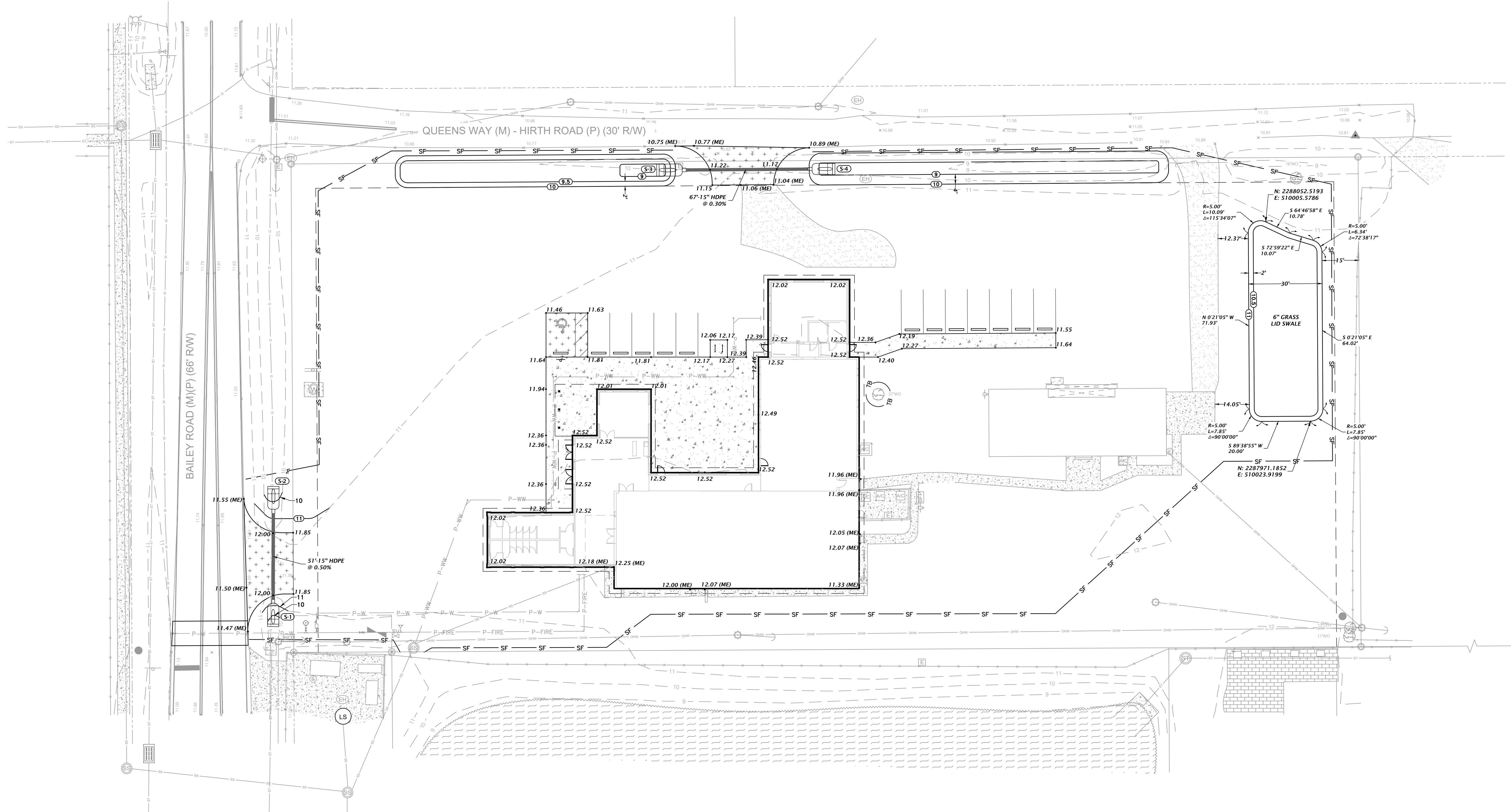
S 89°41'39" W 435.54' (M)
S 89°37'00" W 435.60' (D)

S 89°40'14" W 245.09' (M)
S 89°37'00" W 245.47' (D)

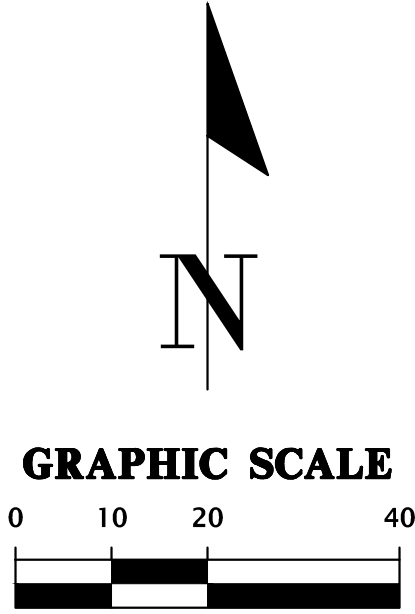
18001 Research Drive Auburn, Florida 32615 (352) 331-1976 www.dhw-inc.com		est. 1988 FLORIDA CA-5075	
CHW		AN INVIS COMPANY	
SCALE: 1"=20'	VERIFY SCALE BAR IS ONE INCH ON DRAWING. SCALE IS 1" IF NOT ONE INCH ON DRAWING, SCALE IS SCALES ACCORDINGLY.		
SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND SHAWND			
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH	DESIGNER: C. MEHNETT, E.I.	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
TRAVIS J. HASTAY	QUALITY CONTROL: T. HASTAY, P.E.	SHEET TITLE: HORIZONTAL CONTROL AND SITE PLAN	PROJECT NUMBER: 24-0244
FL PE No. 84295		SHEET NO. C1.10	

A
B
C
D

Test: JerridP Plot Date: Dec 20, 2024 11:50am Filename: N:\2024\24-0244\Department\04_Engineering\02_DWG\Production Files\24-0244_00.dwg



STORMWATER STRUCTURE TABLE					
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	9.85 N	15"	N: 2287890.34 E: 509600.55
S-2	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	9.60 S	15"	N: 2287941.54 E: 509600.65
S-3	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	8.85 E	15"	N: 2288073.64 E: 509760.04
S-4	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	8.65 W	15"	N: 2288074.09 E: 509826.79



1801 Research Drive
Alhambra, Florida 32615
(352) 331-1976
www.dhw-inc.com

CHW
AN INVIS COMPANY

est. 1988 **FLORIDA**
CA-5075

1"=20'

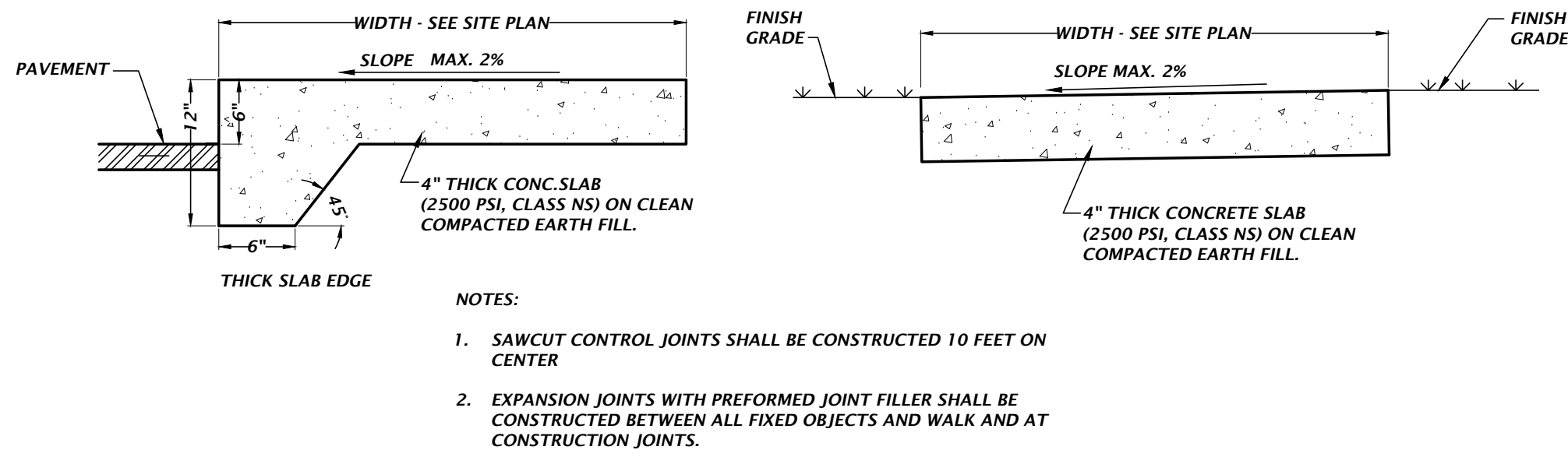
VERIFY SCALE
BASE IS ONE INCH ON
DRAWING EQUIVALENT
IF NOT ONE INCH ON
DRAWING EQUIVALENT
SCALE IS ACCORDINGLY

12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
SHIMMO

CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH
SHEET TITLE: GRADING AND DRAINAGE PLAN
PROJECT NUMBER: 24-0244

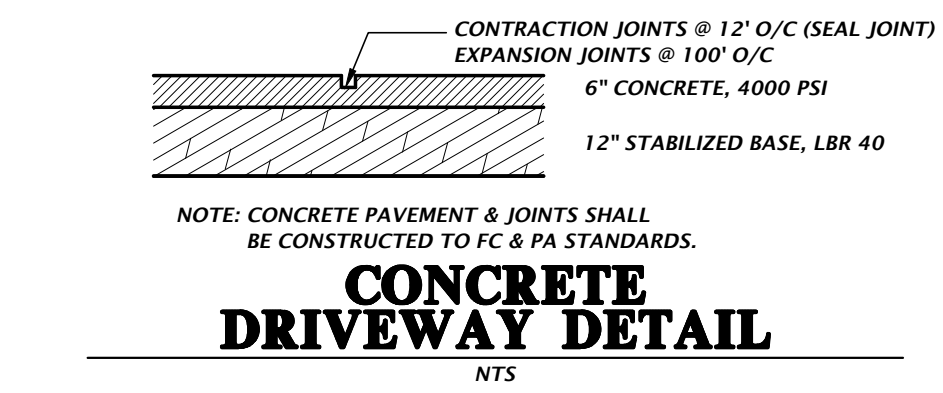
FL PE No. 84295
SHEET NO. **C2.10**

File name: \\A:\2024\24-0244\Department\02_Engineering\02_DWG\Production\11a\24-0244_01.dwg
Title: 11a.dwg
Date: 20/02/24 11:50am
User: jerryfip

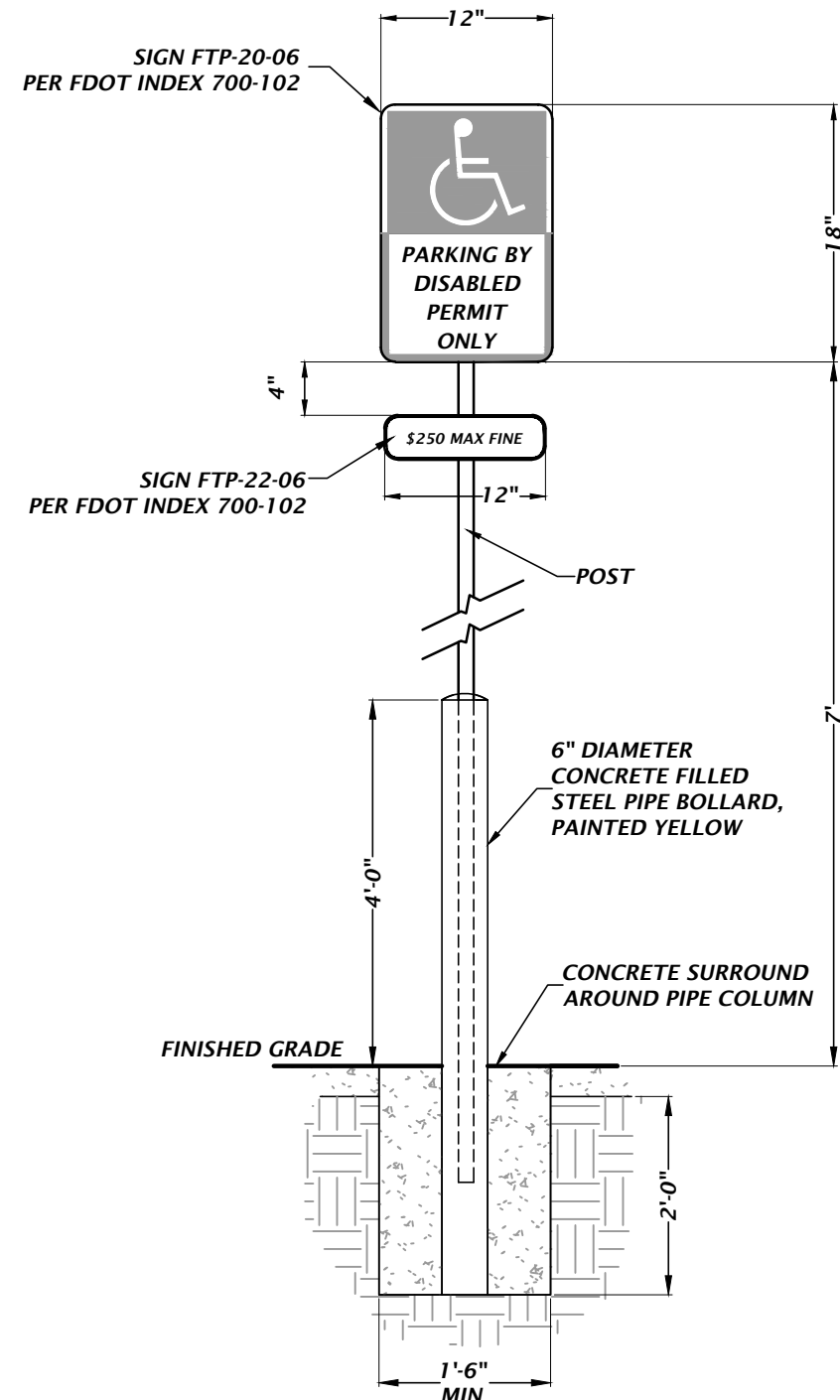


ADJACENT TO PAVEMENT NOT ADJACENT TO PAVEMENT

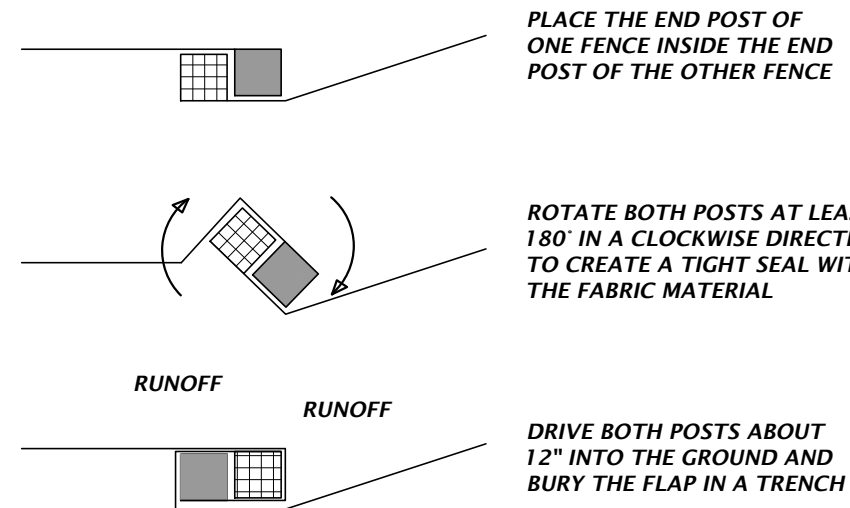
CONCRETE SIDEWALK DETAILS



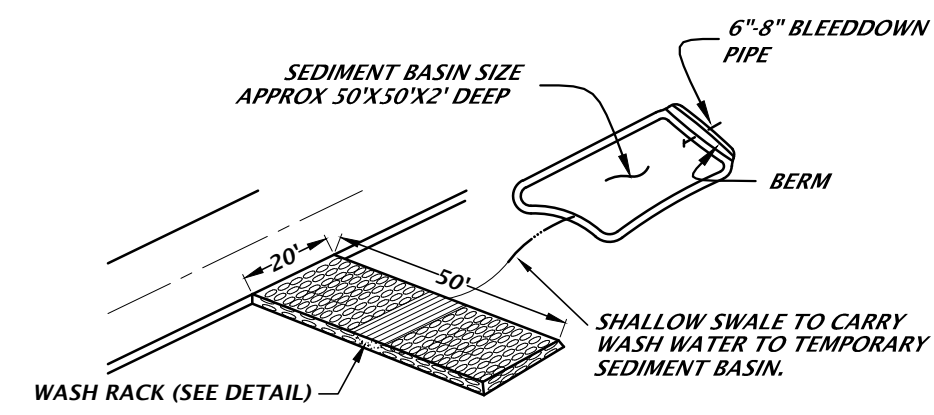
CONCRETE DRIVEWAY DETAIL



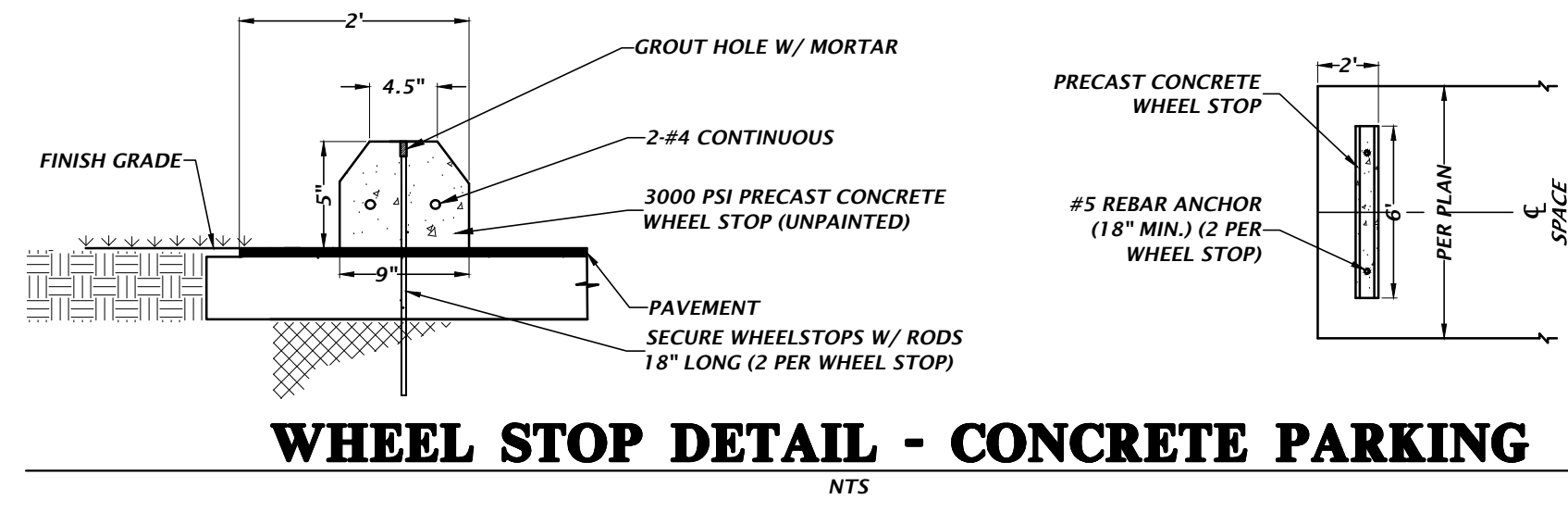
ACCESSIBLE PARKING SIGN DETAIL



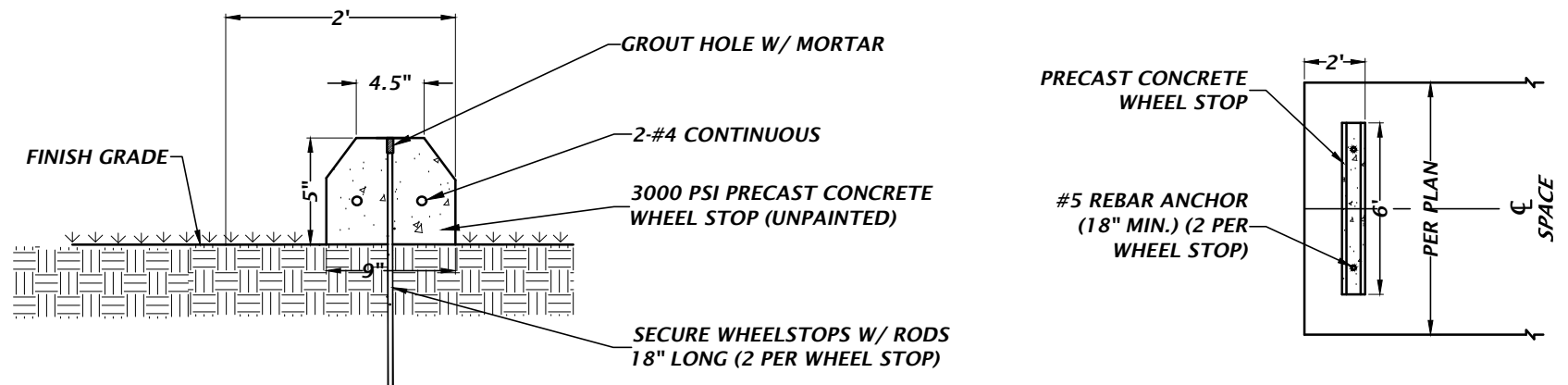
TYPE III SILT FENCE WRAPPING DETAIL



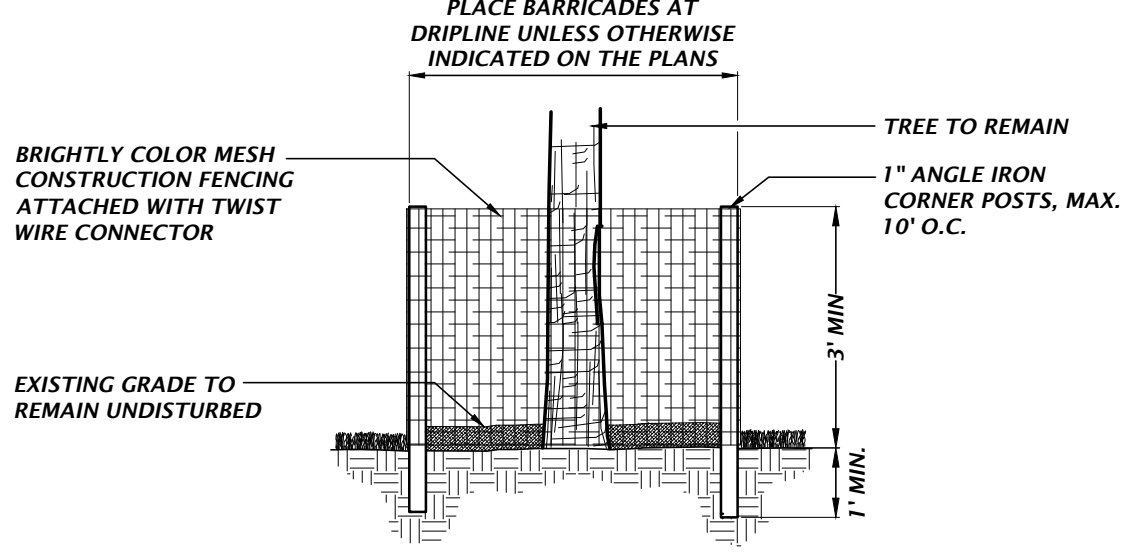
TEMPORARY CONSTRUCTION EXIT WITH WASH RACK



WHEEL STOP DETAIL - CONCRETE PARKING

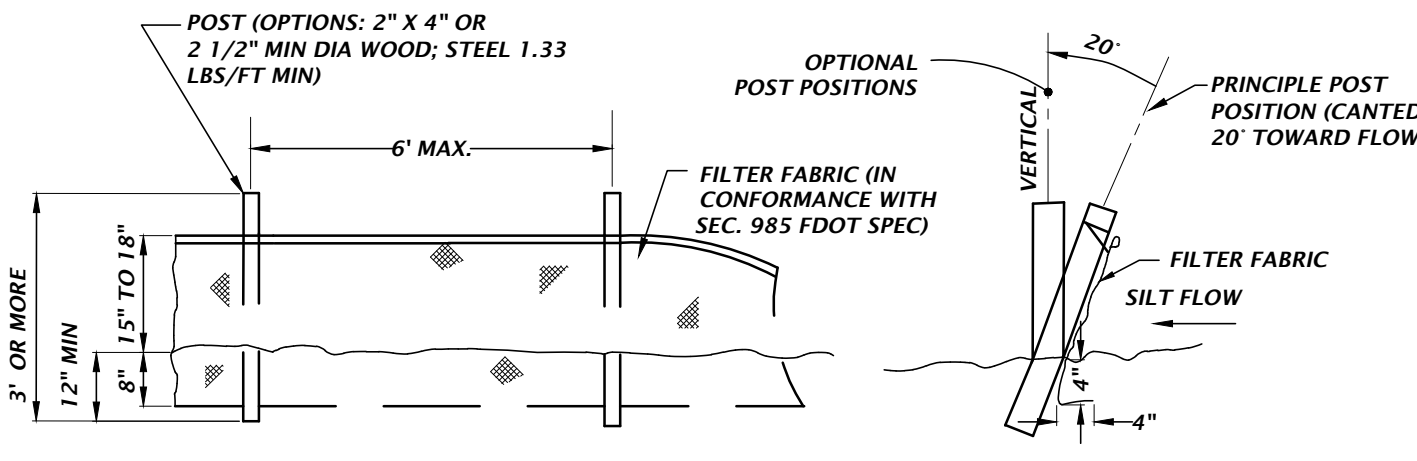


WHEEL STOP DETAIL - GRASS PARKING



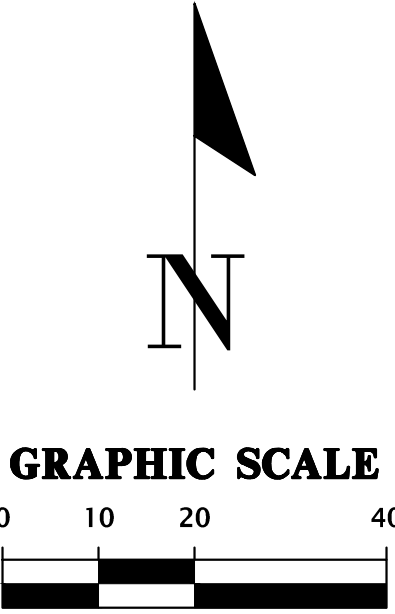
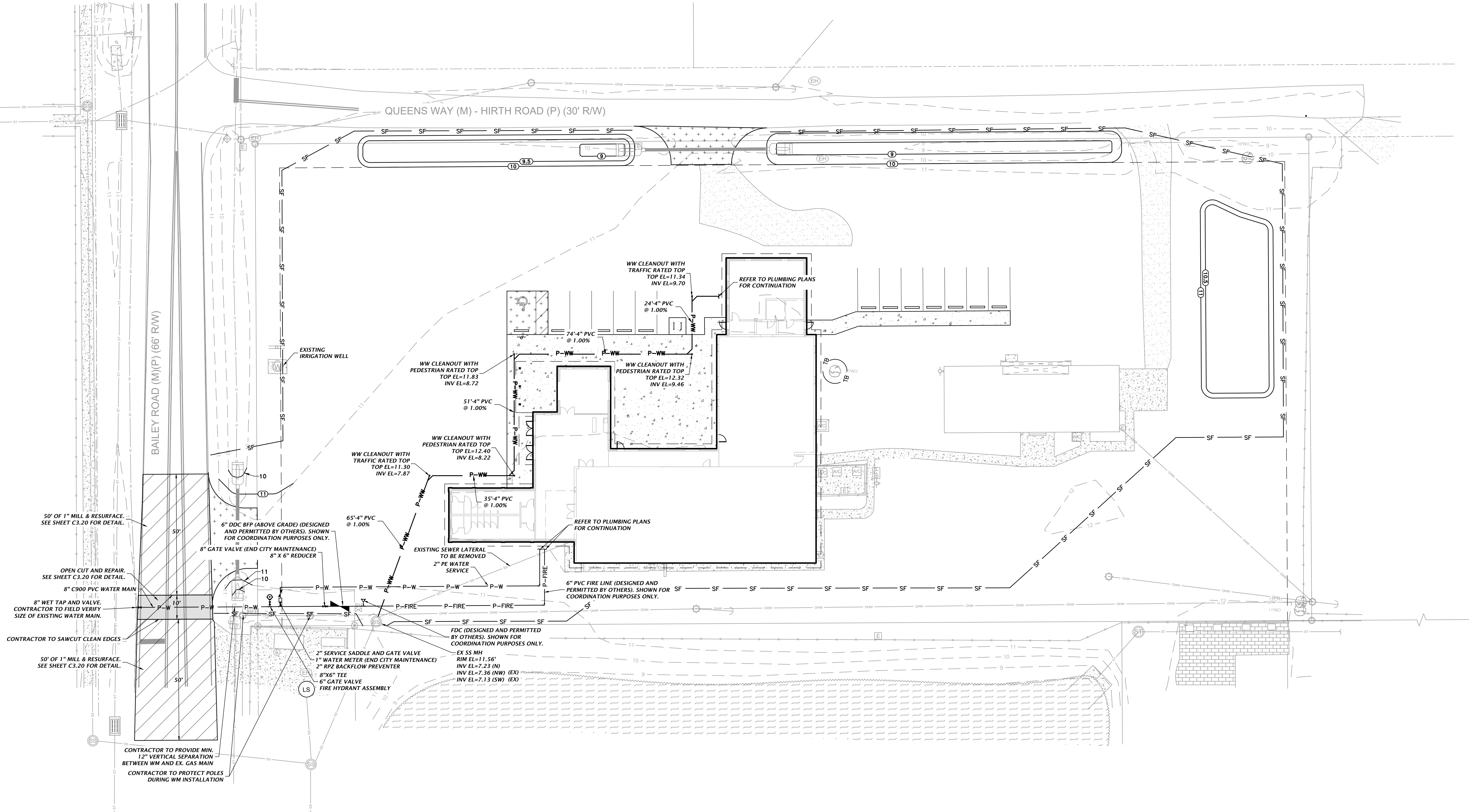
TREE PROTECTION DETAIL

- TREE PROTECTION NOTES**
- 1) PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED WITHIN 50 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS.
 - 2) PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES OR STORED MATERIALS.
 - 3) NO TRENCHING ALLOWED WITHIN THE PROTECTIVE BARRIER ZONE. HAND DIG TO INSTALL UTILITY IF APPROVED BY COUNTY MANAGER OR DESIGNEE. WHERE ROOTS GREATER THAN ONE INCH IN DIAMETER ARE DAMAGED OR EXPOSED, THEY SHALL BE CUT CLEANLY AND RECOVERED WITH SOIL WITHIN ONE HOUR OF DAMAGE OR EXPOSURE.
 - 4) PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN.
 - 5) LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF 4 INCHES.
 - 6) NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS.
 - 7) THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300 PART V: MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE DEVELOPMENT, AND SITE CONSTRUCTION OR OTHER NATIONALLY RECOGNIZED ARBORICULTURAL STANDARDS SHALL BE USED AS GUIDELINES FOR TREE PROTECTION, PLANTING, PRUNING AND CARE DURING DEVELOPMENT AND CONSTRUCTION.



TYPE III SILT FENCE DETAIL

File: J:\2024\24-0244\24-0244.dwg
Date: 20/02/24 11:51am
Project: 24-0244
Sheet: 24-0244

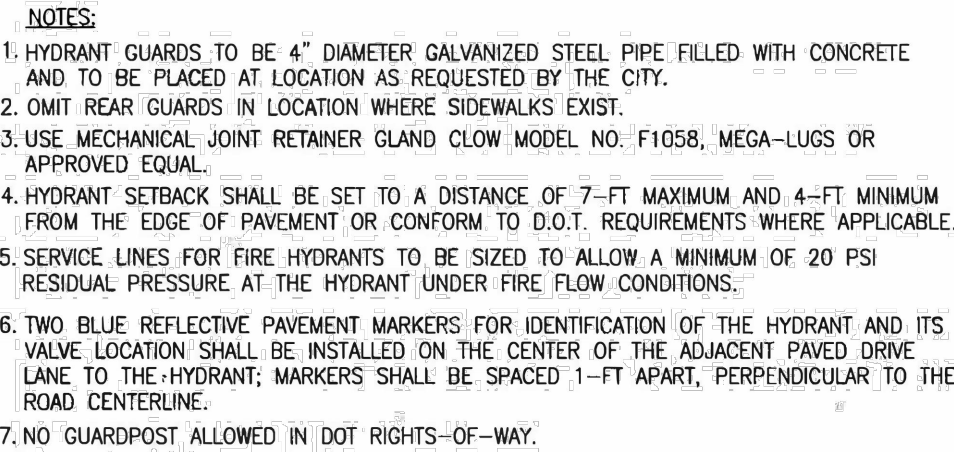


11801 Research Drive Alhambra, Florida 32615 (352) 331-1976 www.dhw-inc.com	
est. 1988 FLORIDA CA-5075	
CHW AN INVIS COMPANY	
1"=20'	VERIFY SCALE BASE IS ONE INCH ON DRAWING IF NOT ONE INCH ON DRAWING, VERIFY SCALES ACCORDINGLY
SUBMITTALS 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND SHAWND	
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH
DESIGNER: C. MENHNETT, EL.	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
QUALITY CONTROL: T. HASTAY, P.E.	SHEET TITLE: UTILITY PLAN
PROJECT NUMBER: 24-0244	
FL PE No. 84295	
SHEET NO.: C3.10	

SEE NOTE

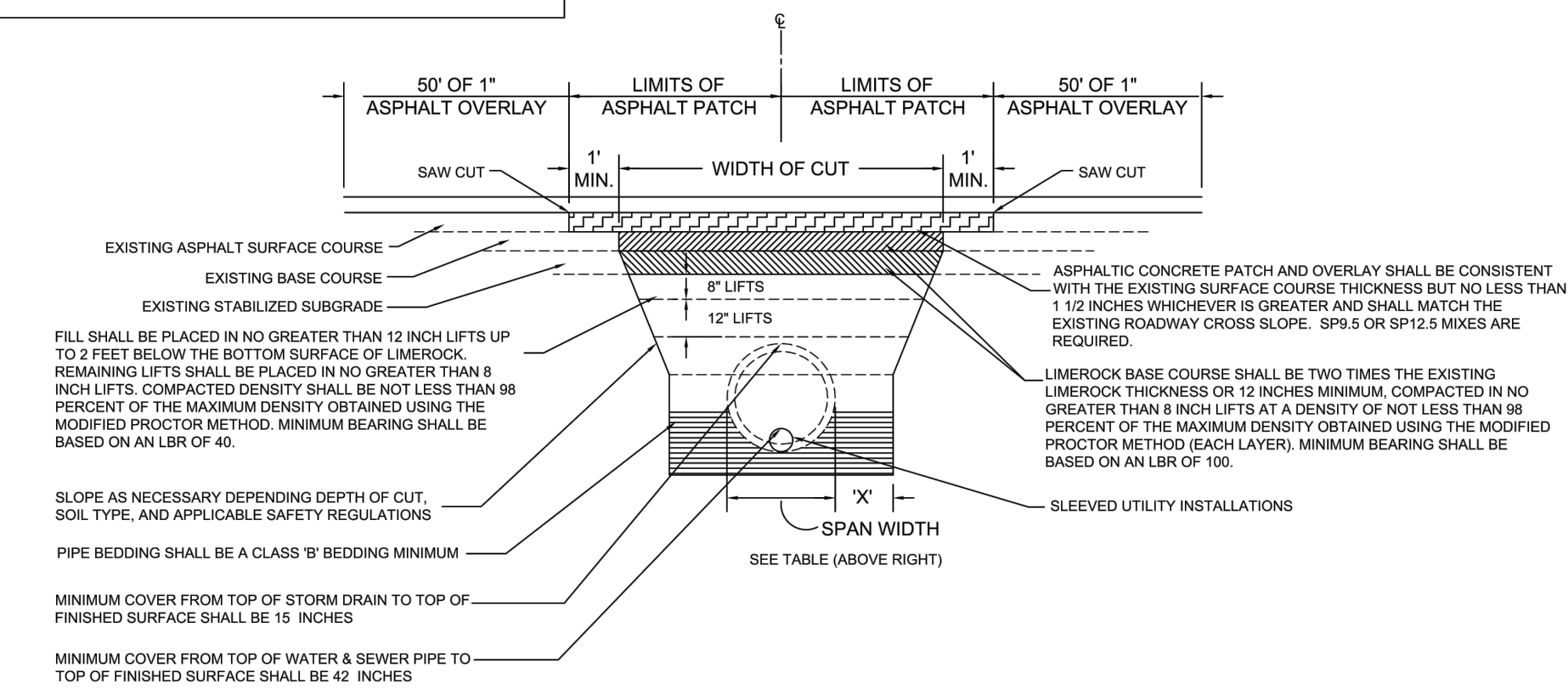
- | | | | | |
|----|-----------------|---------------|------------|----------|
| by | Date: July 2000 | Scale: N.T.S. | Dwg: F101b | Fig: 300 |
|----|-----------------|---------------|------------|----------|

			SOURCES DEPARTMENT			
			POTABLE WATER MAINS			
			GENERAL NOTES			
Date	Revisions	Appr. by	Date: July 2000	Scale: N.T.S.	Dwg: F101c	Fig: 300A

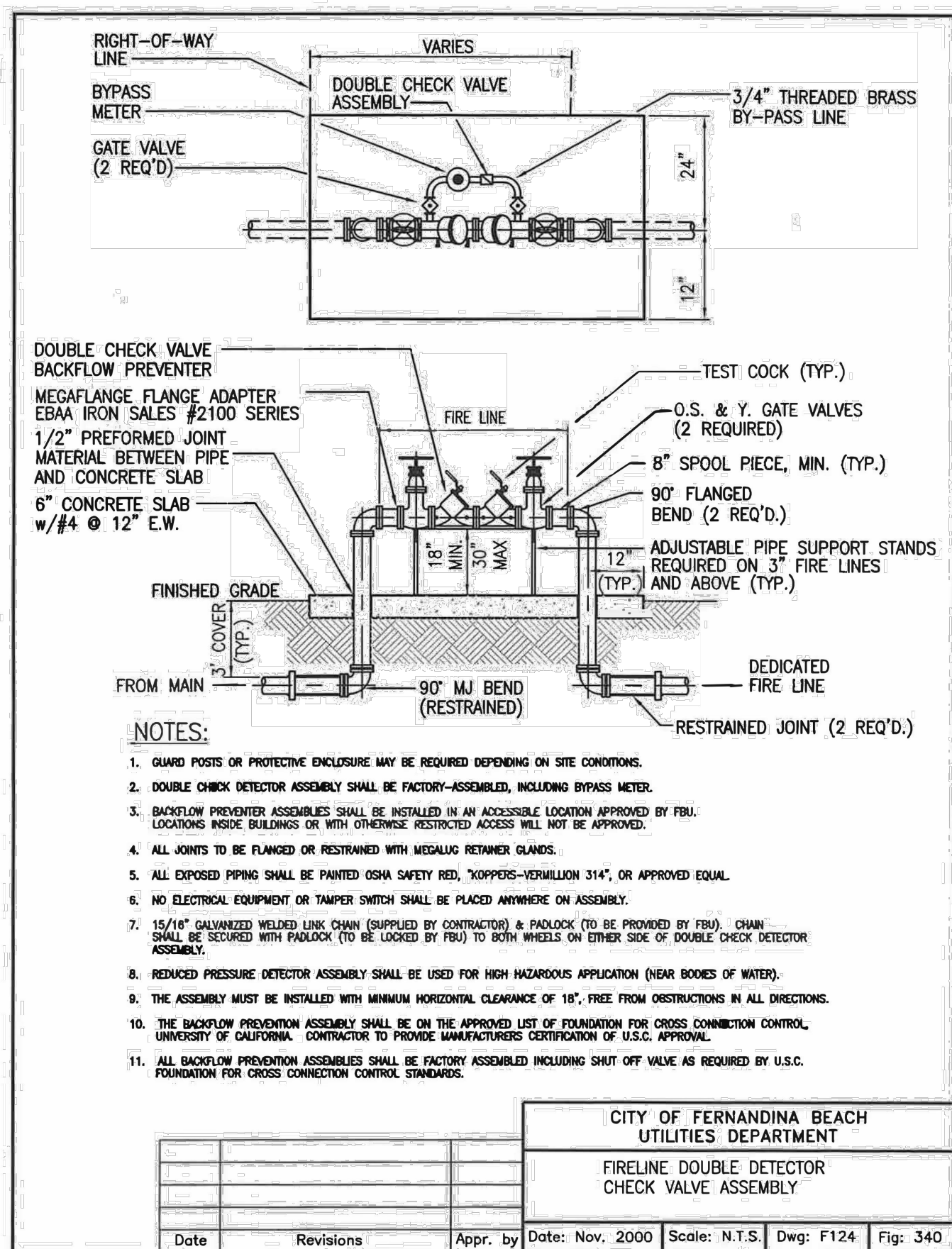
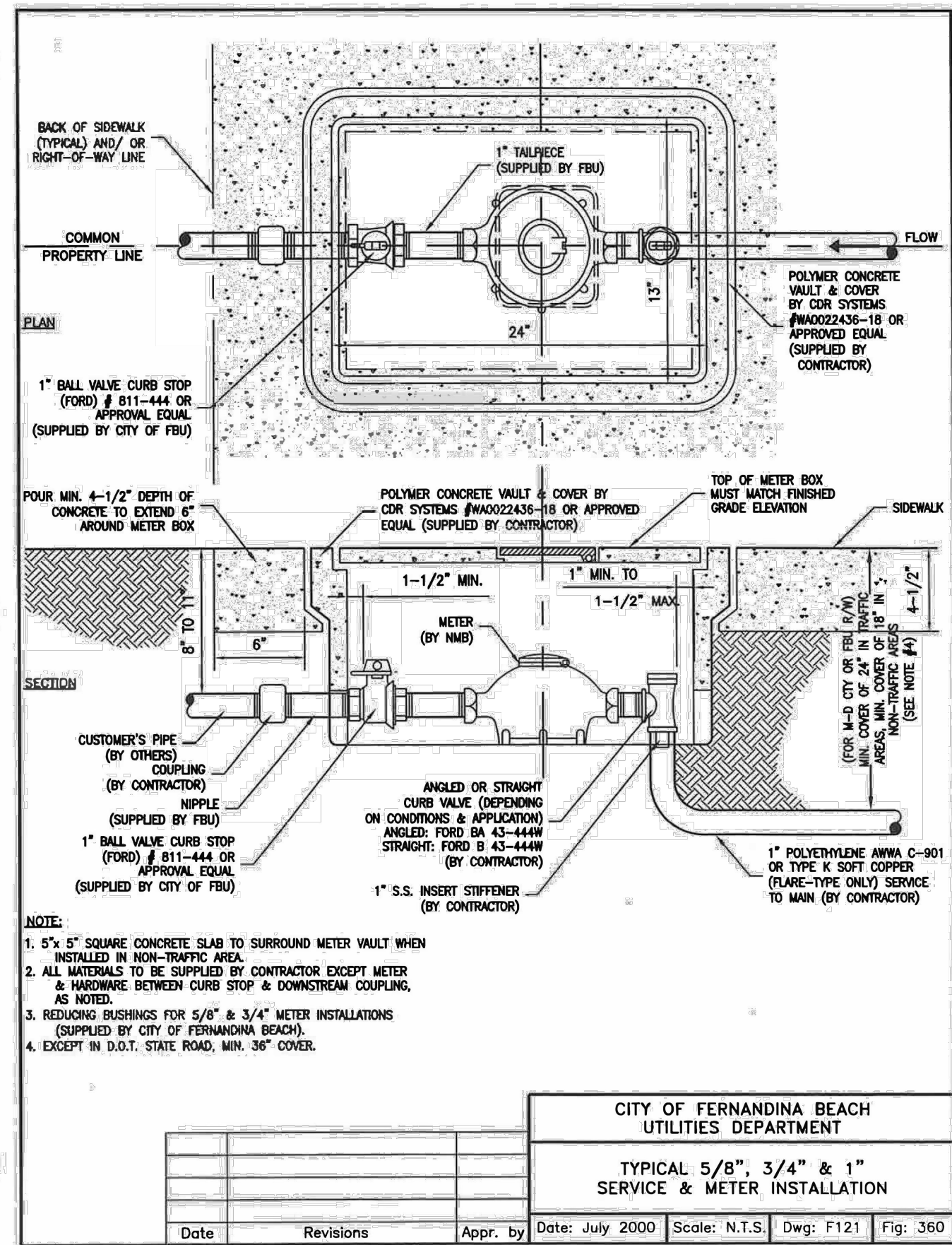


			UTILITIES DEPARTMENT			
			FIRE HYDRANT ASSEMBLY DETAIL			
			Date: Nov. 2000	Scale: N.T.S.	Dwg: F103	Epi: 375

PIPE DIAMETER OR SPAN WIDTH	'X'
≤ 12"	12 INCHES
≤ 30"	24 INCHES
≤ 42"	30 INCHES
≤ 48"	36 INCHES
≤ 60"	42 INCHES
> 60"	48 INCHES



ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY DEVELOPMENT SERVICES DEPARTMENT	REVISION DATES		OPEN ROAD CUTS / COMPACTED FILL	DETAIL NO. 16
				DWG:
				ADOPTED:





January 13, 2025

Cole Menhennett
CHW, an NV5 Company
11801 Research Dr.
Alachua, FL 32615
cole.menhennett@nv5.com

Sent Via Email to Project Team

Applicant Name:

Project Description: Christwalk Church Building Addition

Location: 2920 Bailey Rd

PIN(s): 00-00-30-044B-0045-0020

TRC Case Number: TRC 2024-0010

Mr. Menhennett,

The City of Fernandina Beach received your request for site plan review on Friday, December 20, 2024. A complete application was determined on Friday, December 22, 2024. All submitted documents provided were routed to the Technical Review Committee (TRC). The comments provided as part of this site plan review are valid for six months from the date of issuance.

Please submit response documents to address each comment in a narrative form and with an amended site plan within 30 days. We anticipate scheduling the public hearing to review the project on Thursday, February 20, 2025 at 10am at City Hall Commission Chambers. Please contact our office if you are unable to attend this meeting so we can schedule an alternate date.

If you have any questions, please contact us at TRCinfo@fbfl.city or 904-310-3480.

Sincerely,

Kelly N. Gibson

Kelly N. Gibson, AICP
TRC Coordinator



REVIEW COMMENTS:

PLANNING

☐ The Planning Department has reviewed the submittal and noted the following comments:

Reference LDC Section 7.01.03 (B)

Please provide calculations of the existing structure's conditioned and non-conditioned square footage and the additional square footage for the expanded area.

Please provide a breakdown of the use of the space in the expansion areas.

Architectural plans were not provided as part of the TRC application for review of spaces.

This information should relate to the parking analysis and all parking information needs to be demonstrated on the engineered plan sets to depict how this complies with the City's minimum code requirements. Use of overflow parking in semi-improved or non-improved space may be permissible; however, it does need to be delineated on the site plan to demonstrate compliance with the overall site usage.

Please provide a pedestrian circulation path from the parking areas to the main building.

Reference LDC Section 7.01.03(E)

Please provide bicycle racks per code

Loblolly Pine trees in front cannot be removed since they are greater than 5 feet from proposed building site.

Will there be a new monument sign location? If so, please show the location with associated landscaping.

The submitted landscape plan shows 28 native shade trees being planted (East Palatka Hollies are not considered shade trees due to their size), this site requires 56 native shade trees on site per LDC 4.05.06(B). dn 12/27/24

OR

☐ All previous comments have been addressed, and the Department of Planning & Conservation approves issuance of a local development order

Name of Reviewer: Planning Staff

Today's Date: Select Date 1/13/25



BUILDING

☐ The Building Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Building Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

UTILITIES, STORMWATER, & STREETS

☒ The Public Works Departments has reviewed the submittal and noted the following comments:

- Both right-of-ways are county.
- Please ensure the trash can be located and picked up.
- There is a 12" and 4" force main on Bailey Rd that may conflict with proposed watermain. Please locate and identify the mains.
- Please change the pipe laterals to be SDR-26 instead of SDR-35.
- Please include details for the tie-in at the manhole.
- We recommend matching the backflow preventor size to the meter.
- Please clarify how the runoff will be directed to the new swale and if the swales along the north side are new or existing.
- Please provide a pre versus post analysis for the stormwater.

OR

☐ All previous comments have been addressed, and the Public Works Department approves issuance of a local development order.

Name of Reviewer: Victoria Guadagnino

Today's Date: Friday, January 10, 2025

CODE ENFORCEMENT

☐ The Code Enforcement Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed and the Code Enforcement Department approves issuance of a local development order.



Name of Reviewer: First Last

Today's Date: Select Date

FIRE

☒ The Fire Department has reviewed the submittal and noted the following comments:

- It is understood this will be a fully sprinklered building with an NFPA 13 system.
- Fire line backflow is required by city water authority to be an RPZ type backflow preventor.
- FDC location can be discussed further. FDC is allowed to be located on the backflow, a stand-alone location, or on the building. Whichever makes the most sense operationally.

OR

☐ All previous comments have been addressed and the Fire Department approves issuance of a local development order.

Name of Reviewer: Jason Higginbotham

Today's Date: Monday, January 6, 2025

CONSTRUCTION PLANS
FOR:
CHRISTWALK CHURCH
BUILDING ADDITION

CITY OF FERNANDINA BEACH
NASSAU COUNTY FLORIDA

SECTION 5, TOWNSHIP 2 NORTH, RANGE 28 EAST

SUBMITTED TO:
CITY OF FERNANDINA BEACH
NASSAU COUNTY

OWNER

CHRISTWALK CHURCH OF GOD
2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

SURVEYOR OF RECORD

AARON H. HICKMAN
CHW
11801 RESEARCH DRIVE
ALACHUA, FL. 32615
(352) 331-1976

ENGINEER OF RECORD

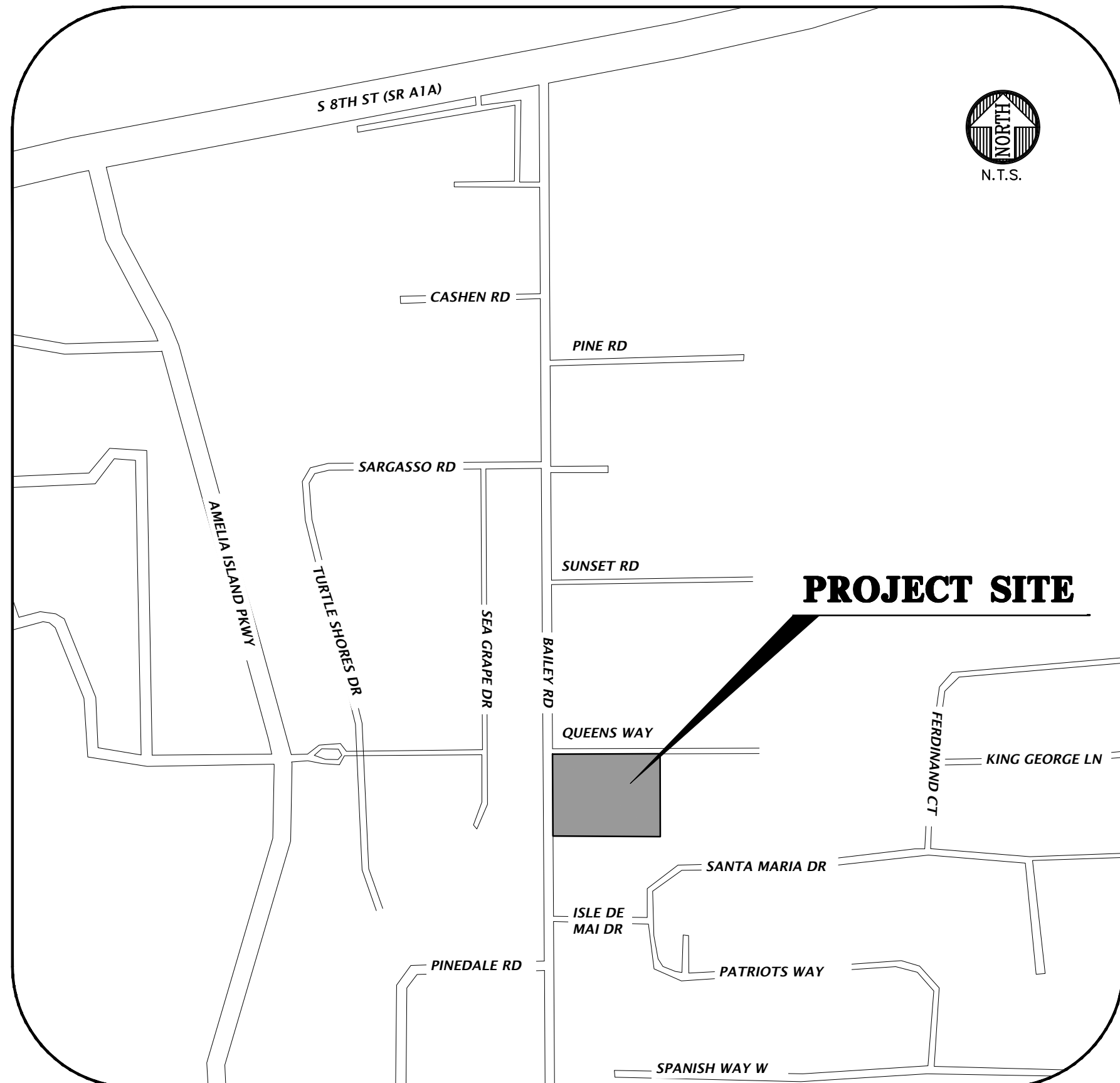
TRAVIS J. HASTAY P.E.
CHW
11801 RESEARCH DRIVE
ALACHUA, FL. 32615
(352) 331-1976

LANDSCAPE ARCHITECT

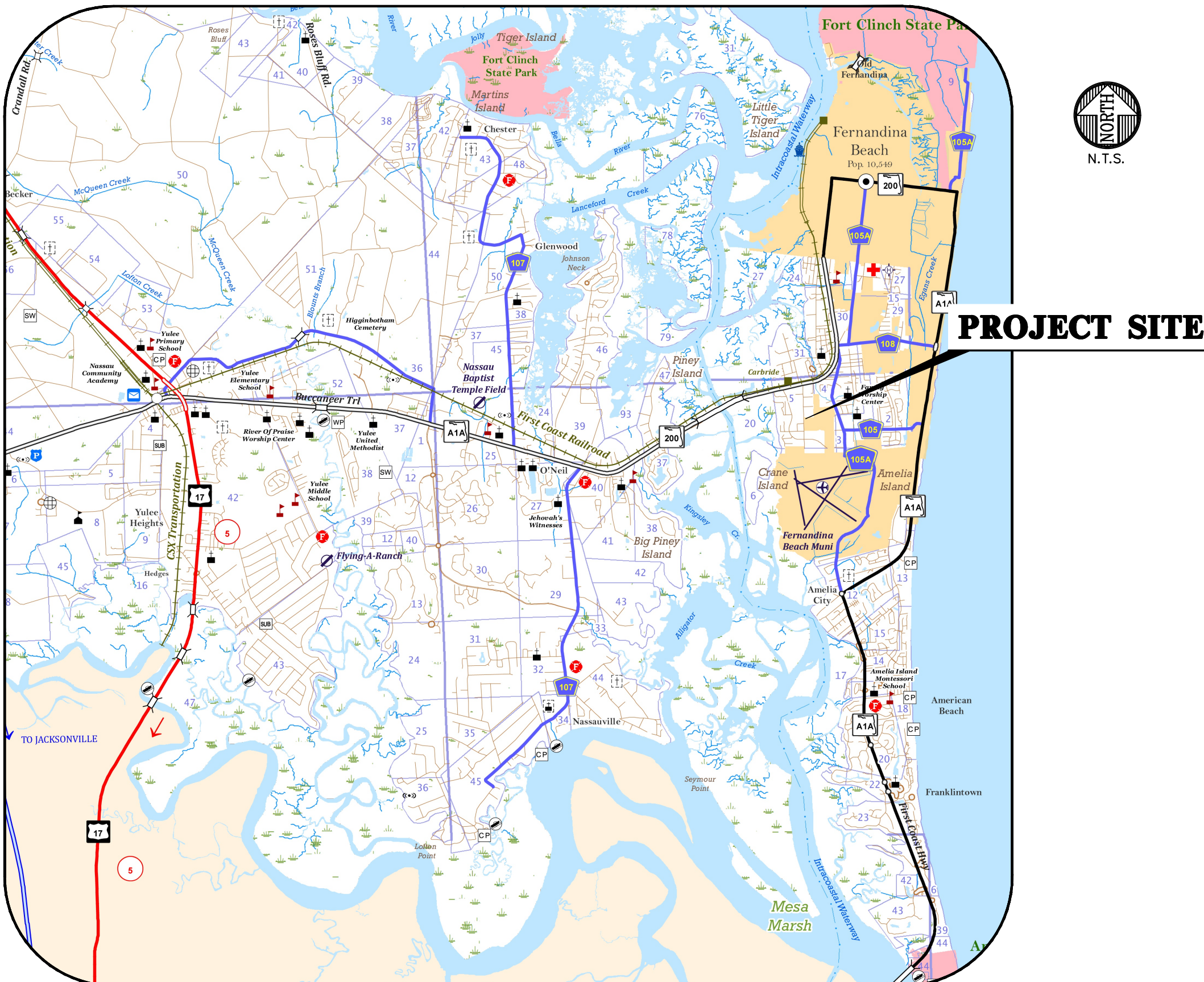
JOHN MICHAEL SIMPSON
CHW
11801 RESEARCH DRIVE
ALACHUA, FLORIDA 32615
(352) 331-1976

ARCHITECT

ELIZABETH C. GLASS
RARDIN AND CAROL ARCHITECTS, INC.
6105 PRESERVATION DRIVE - SUITE A
CHATTANOOGA, TN 37416
(423) 364-1443



VICINITY MAP



LOCATION MAP

DEVELOPMENT DATA

TAX PARCEL #: 00-00-30-0448-0045-0020		
DEVELOPMENT AREA:	86,928 S.F.	2.00 AC
BUILDING AREA:	11,568 S.F.	13.3%
PROPOSED SANCTUARY BUILDING:	9,530 S.F.	11.0%
EXISTING CHURCH OFFICE BUILDING:	2,038 S.F.	2.3%
ROADS/CURB/SIDEWALKS:	11,300 S.F.	13.0%
IMPERVIOUS AREA:	22,868 S.F.	26.3%
OPEN SPACE:	64,060 S.F.	73.7%
PROPOSED IMPERVIOUS SURFACE RATIO:	26.3%	
MAXIMUM IMPERVIOUS SURFACE RATIO:	60.0%	
PROPOSED FLOOR AREA RATIO:	13.3%	
MAXIMUM FLOOR AREA RATIO:	50.0%	
PROPOSED BUILDING HEIGHT:	32 FT	
MAXIMUM BUILDING HEIGHT:	35 FT	
EXISTING CONDITIONED SPACE:	6,400 SF	
PROPOSED ADDITIONAL CONDITIONED SPACE:	3,130 SF	
TOTAL CONDITIONED SPACE:	9,530 SF	

GENERAL NOTES

EXISTING FUTURE LAND USE: LOW DENSITY RESIDENTIAL

EXISTING ZONING: R-1

DESCRIPTION: THE PROJECT CONSISTS OF AN ADDITION TO THE EXISTING CHIRSTWALK CHURCH BUILDING, ASSOCIATED SIDEWALKS, DRIVEWAY APRONS, ADA PARKING, AND UTILITY IMPROVEMENTS.

PARKING CALCULATION:

REQUIRED: ASSEMBLY SPACES (RELIGIOUS FACILITIES)

1 SPACE PER 4 SEATS

250 SEATS / 4 = 63 PARKING SPACES

EXISTING*: 60 GRASS PARKING SPACES

PROPOSED: 3 ACCESSIBLE PARKING SPACES

TOTAL: 63 PARKING SPACES

*EXISTING GRASS PARKING APPROVED IN ASSOCIATION WITH CHRISTWALK CHURCH SITE PLANS DATED 08/04/2009.

LANDSCAPING:

PROTECTED TREES: 9

TREES TO BE REMOVED: 5

SHADE TREES TO BE PLANTED: 46

SHADE TREES TO BE PRESERVED: 2

TOTAL SHADE TREES ON SITE: 48

LEGAL DESCRIPTION: (OFFICIAL RECORDS BOOK 2103, PAGE 1353)

A PART OF LOT FORTY-FIVE (45), OCEAN BREEZE FARMS, AS RECORDED IN PLAT BOOK 2, PAGE 19, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF BEGINNING, COMMENCE AT THE NORTHWEST CORNER OF SAID LOT FORTY-FIVE (45); THENCE NORTH 89°37'00" EAST ALONG THE NORTH LINE OF SAID LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET; THENCE SOUTH 00°15'03" EAST, A DISTANCE OF 200.0 FEET; THENCE SOUTH 89°37'00" WEST PARALLEL TO THE AFOREMENTIONED NORTHERLY LINE OF LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET TO A POINT IN THE EASTERLY RIGHT OF WAY LINE OF BAILEY ROAD (A 66.0 FOOT RIGHT OF WAY, AS NOW ESTABLISHED); SAID LINE ALSO BEING THE WEST LINE OF SAID LOT FORTY-FIVE (45), THENCE NORTH 00°15'03" WEST ALONG THE WEST LINE OF LOT FORTY-FIVE (45), AND ALONG THE EAST RIGHT OF WAY LINE OF BAILEY ROAD, A DISTANCE OF 200.0 FEET TO THE POINT OF BEGINNING.

SHEET INDEX

SHEET NUMBER	DESCRIPTION
C0.00	COVER SHEET AND INDEX
C0.10	GENERAL NOTES
C0.11	LEGEND
C0.20	STORMWATER POLLUTION PREVENTION NOTES
C0.21	STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
C0.30	DEMOLITION AND TREE PROTECTION PLAN
C1.10	DETAILED HORIZONTAL CONTROL AND SITE PLAN
C2.10	GRADING AND DRAINAGE PLAN
C2.30	CONSTRUCTION DETAILS
C3.10	DETAILED UTILITY PLAN
C3.20 - C3.21	UTILITY DETAILS
1 OF 1	BOUNDARY AND TOPOGRAPHIC SURVEY
A0-1 - A2-1	ARCHITECTURAL FLOOR PLAN(S)/ELEVATION(S)
LS-1 - LS-2	LANDSCAPE PLAN
IR-1 - IR-2	IRRIGATION PLAN

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE
DIGGING OR DISTURBING EARTH

1-800-432-4770

Know what's below.
Call before you dig.

11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
FLORIDA
est. 1988 CA-5075

CHW
AN INVIS COMPANY

N/A
VERIFY SCALE
BAR IS ONE INCH ON
0
IF NOT ONE INCH ON
0
SCALES ACCORDINGLY.

12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY

CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH
SHEET TITLE: COVER SHEET AND INDEX

TECHNICIAN: G. WADZINSKI
DESIGNER: C. MENHNETT, E.I.
QUALITY CONTROL: T. HASTAY, P.E.
PROJECT NUMBER: 24-0244

Travis J. Hastay
State of Florida, Professional
Engineer, License No. 84295
This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/04/2025 using a
Digital Signature.
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic document
by Travis J. Hastay
City of Fernandina
Travis J. Hastay
Professional Engineer
License No. 84295
FL PE No. 84295

SHEET NO.: C0.00

GENERAL NOTES

- THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM A TOPOGRAPHIC SURVEY PREPARED BY CHW, DATED MAY 6, 2024.
2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" 48 HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.
4. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
6. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.
9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.
11. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION TECHNIQUES.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND/OR SOILS ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE TESTING LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
13. INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR NEW SITE CONSTRUCTION. INSTALL SILT FENCE PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE COMPLETED WITHIN 24 HOURS.
14. ALL TREE BARRICADES AND SILT FENCING SHALL BE INSTALLED AND INSPECTED BY NASSAU COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
15. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
16. ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE AREAS.
17. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.
18. WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
19. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
20. THE COVERING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (FY 2024-25 ROAD CONSTRUCTION) AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED FY 2024-25, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.
21. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.
22. ALL STRIPING WITHIN THE NASSAU COUNTY RIGHT OF WAY SHALL BE PLACED FIRST AS TEMPORARY STRIPING FOLLOWED BY APPLICATION OF THERMOPLASTIC STRIPING 30 DAYS LATER.
23. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.
24. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.
25. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH THE NASSAU COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF SITE CONSTRUCTION.
26. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.
27. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THESE PLANS. DEWATERING SHALL BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, 2018 EDITION, SECTION 120.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COST OF ALL CLEARING AND GRUBBING AND ALL WORK OF REMOVAL, DISPOSAL, AND REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS WHERE SHOWN IN THE PLANS, OR ORDERED BY THE ENGINEER TO BE REMOVED, OR WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS, IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS (THIS INCLUDES BUT IS NOT LIMITED TO PROPOSED PIPING, STRUCTURES, UTILITIES, PAVING, CURBING, ETC.).
29. AN AS-BUILT SURVEY MAY BE REQUIRED BY REGULATORY AGENCIES. CONTRACTOR TO COORDINATE WITH PROJECT OWNER FOR COMPLETION OF AS-BUILT SURVEYS PRIOR TO PROJECT / PERMIT CLOSE-OUT.

MAINTENANCE OF TRAFFIC (MOT) NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR CREATING A MAINTENANCE OF TRAFFIC (MOT) PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE, SUCH AS CONNECTION TO SEWER MANHOLES AND WATER MAINS. THE MOT PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY THE FDOT MOT CERTIFICATION TRAINING. THE MOT PLAN MUST ALSO BE IN ACCORDANCE WITH FDOT STANDARD PLANS AND FDOT STANDARD SPECIFICATIONS REQUIREMENTS AND MUST BE REVIEWED AND APPROVED BY NASSAU COUNTY AND CITY OF FERNANDINA BEACH.
2. THE CONTRACTOR SHALL SUBMIT THE MOT TO THE APPROPRIATE REGULATORY AUTHORITY PRIOR TO WORK REQUIRING THE MOT FOR APPROVAL. NO WORK IN THE ROW SHALL OCCUR UNTIL THE MOT IS APPROVED.

DEMOLITION GENERAL NOTES

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY AND IMMEDIATELY.
 2. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE AND CONSTRUCTION DOCUMENT SPECIFICATIONS.
 3. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH TRANSITION.
 4. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.
 5. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.
 6. ALL ASPHALT AND LIMESTONE SHALL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMESTONE, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE CLEAN DEEP FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT GROWTH. NO LIMESTONE, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.
- ## **PAVING, GRADING, AND DRAINAGE GENERAL NOTES**
1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:
 - A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTION REPORT TO PREVENT CHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED, AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.
- NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.
- B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
 - C. EXCAVATED STORMWATER FACILITIES SHALL BE CONSTRUCTED AS PART OF THE INITIAL CONSTRUCTION. THE FACILITIES SHALL BE ROUGH GRADED TO THE DESIGN ELEVATIONS. AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED, THE FACILITIES BOTTOM SHALL BE GRADED TO FINAL DESIGN GRADES. EXCESS AND UNSUITABLE SOILS SHALL BE REMOVED FROM THE BASIN (REMOVE ALL ACCUMULATED SILTS, CLAYS, ORGANIC, AND DEBRIS). FINALLY, SCARIFY AND RAKE BOTTOM AND VEGETATE.
 - D. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.
 - E. ALL SLOPES 1:3 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.
 - F. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.
 - G. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

3. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
4. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
5. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.
6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.
7. CONTRACTOR IS TO SUBMIT FDOT APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT.
8. AS DETERMINED NECESSARY AND DIRECTED BY NASSAU COUNTY PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACKFILL WITH FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 120-002.
9. PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME ELEVATION. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED POSITION A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANEUVERING CLEARANCES AT DOORS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
10. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
 - A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
 - B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF STRAIGHT AND LEVEL CLEARANCE.
 - C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"x60". IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL BE SHOWN ON THE SITE PLAN.
11. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.
12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS OR AS-BUILT SURVEY AS NOTED IN NOTE #29 UNDER SITE GENERAL NOTES.
13. ALL CONCRETE SIDEWALKS SHALL BE 2,500 PSI MINIMUM. CONCRETE PAVING SHOULD BE 3,000 PSI MINIMUM.
14. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.
15. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT.
16. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY FDOT INDEX 524-001 AND FDOT INDEX 425- AND 430- SERIES AS APPROPRIATE. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT STANDARD PLANS ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.
18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS 1 SURFACE FINISH.
19. ALL HOPE FITTINGS AND CONNECTORS SHALL BE WATER TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION.
20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MOUD ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RECORD.
21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430.

WATER AND WASTEWATER GENERAL NOTES

1. MATERIALS AND CONSTRUCTION METHODS FOR WATER AND WASTEWATER SYSTEMS SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL UTILITY EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY UTILITY FIELD LOCATION AND RELOCATION AS REQUIRED.
4. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.
5. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF PARTIES US THE CONTRACTOR'S RESPONSIBILITY.
6. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. THE ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
7. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN SIX FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND GRAVITY OR PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN THREE FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND VACUUM WASTEWATER MAINS. A HORIZONTAL SEPARATION OF THREE FEET SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
8. WHEN POTABLE WATER MAINS CROSS OTHER PIPES, THE TWO PIPES SHALL HAVE JOINTS A MINIMUM OF SIX FEET FROM THE CROSSING. WHEN POTABLE WATER MAINS CROSS UNDERNEATH OTHER PIPES, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE GRAVITY AND VACUUM WASTEWATER MAINS, STORM SEWERS, AND STORMWATER FORCE MAINS, THE PREFERRED VERTICAL SEPARATION IS TWELVE INCHES AND THE THE MINIMUM VERTICAL SEPARATION IS SIX INCHES.
9. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
10. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.
11. ALL PVC WATER SERVICE LINES SHALL BE SCH 40 PVC.
12. THE SITE WORK CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED UNDERGROUND UTILITY AND EXCAVATION CONTRACTOR TO INSTALL THE NEW WATER SERVICE LINE.
13. ALL SANITARY SEWER SERVICE LATERALS SHALL BE 4" PVC SDR 26 OR 6" PVC SDR 26 WITH A CLEAN-OUT LOCATED PER THE PLANS. MINIMUM SLOPE FOR 4" LATERALS SHALL BE 1.0% AND A MINIMUM CLEANOUT SPACING OF 75 FEET ON-CENTER AND MINIMUM SLOPE FOR 6" LATERALS SHALL BE 0.6% AND A MINIMUM CLEANOUT SPACING OF 100 FEET ON-CENTER.
14. PUBLIC UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED FOR ALL UTILITIES SHOWN HEREON BY METES AND BOUND DESCRIPTION AND IN ACCORDANCE WITH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.

ELECTRIC SERVICE GENERAL NOTES

1. ALL ELECTRICAL UTILITIES AND INFORMATION SHOWN ON THE CIVIL PLANS ARE FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS BY OTHERS FOR THE ELECTRICAL DESIGN AND DETAILS.
2. ELECTRIC DESIGN PROVIDED BY OTHERS.

	SYMBOLS		N
"	FEET (WHEN USED WITH LENGTHS)	N	NORTH
'	DEGREES	N E	NORTHING - EASTING
"	MINUTES (WHEN USED WITH ANGLES)	N/A	NOT APPLICABLE
"	SECONDS	NAVD	NORTH AMERICAN VERTICAL DATUM OF 1988
%	PERCENT	NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
@	AT		NUMBER
	A	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
AASHTO	ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	NTS	NOT TO SCALE
AC	ACRES		O
ADA	AMERICAN WITH DISABILITIES ACT		ON CENTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	OC	ON CENTER
ARCH	ARCHITECT	OHW	OVERHEAD WIRE
ARV	AIR RELEASE VALVE	ORB	OFFICIAL RECORDS BOOK
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
AWWA	AMERICAN WATER WORKS ASSOCIATION		P
	B	PAVT	PAVEMENT
BC	BACK OF CURB	PC	POINT OF CURVATURE
BFP	BACKFLOW PREVENTER	PCC	POINT OF COMPOUND CURVE
BLOG	BUILDING	PE	POLYETHYLENE
BM	BENCHMARK	PERF	PERFORATED
BMP	BEST MANAGEMENT PRACTICE	PV	POST INDICATOR VALVE
BOC	BACK OF CURB	PROP	PROPOSED
BVCS	BEGIN VERTICAL CURVE STATION	PT	POINT OF TANGENCY
BVCE	BEGIN VERTICAL CURVE ELEVATION	PVC	POLYVINYL CHLORIDE
BW	BOTTOM OF WALL	PUE	PUBLIC UTILITY EASEMENT
BSL	BUILDING SETBACK LINE	PVI	POINT OF VERTICAL INTERSECTION
	C		R
CATV	CABLE TELEVISION	R	RADIUS
CI	CURB INLET	RCP	REINFORCED CONCRETE PIPE
CIP	CAST IRON PIPE	RPM	RAISED REFLECTIVE PAVEMENT MARKER
CLDIP	CEMENT LINE DUCTILE IRON PIPE	RPZ	REDUCED PRESSURE ZONE
CM	CORRUGATED METAL PIPE	RT	RIGHT
CD	CLEANOUT	RWM	RIGHT-OF-WAY MAIN
CONC	CONCRETE	R/W	RIGHT-OF-WAY
COORD	COORDINATE		S
CR	COUNTY ROAD	S	SOUTH
C/O	CLEANOUT	SAN	SANITARY
	D	SHWE	SEASONAL HIGH WATER ELEVATION
DBH	DIAMETER AT BREAST HEIGHT	SF	SILT FENCE
DE	DRAINAGE EASEMENT	SL	SLOPE
DEG	DEGREE	SP	SUPERPAVE
DIA	DIAMETER	SR	STATE ROAD
DIP	DUCTILE IRON PIPE	SS	SANITARY SEWER
DWG	DRAWING	ST	STORM
	E	STA	STATION
e	EAST OF ELEVATION	STD	STANDARD
E	EAST		T
EA	EACH	TB	TREE BARRICADE
EL	ELEVATION	TCE	TEMPORARY CONSTRUCTION EASEMENT
ELEV	ELEVATION	TEMP	TEMPORARY
EOP	EDGE OF PAVEMENT	TOB	TOP OF BANK
EOR	ENGINEER OF RECORD	TV	TELEVISION
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE	TW	TOP OF WALL
ESMT	EASEMENT	TYP	TYPICAL
EVCS	END VERTICAL CURVE STATION		U
EVCE	END VERTICAL CURVE ELEVATION	USF	UNITED STATES FOUNDRY
EX	EXISTING	USGS	UNITED STATES GEOLOGICAL SURVEY
	F	UTIL	UTILITY
FAC	FLORIDA ADMINISTRATIVE CODE		V
FBR	FLORIDA BEARING RATIO	V	VERTICAL
FC	FRICTION COURSE	VC	VERTICAL CURVE
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	VCP	VITRIFIED CLAY PIPE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION		W
FTE	FINISHED FLOOR ELEVATION	W	WATER
FH	FIRE HYDRANT	W	WEST
FHWA	FLORIDA HIGHWAY ADMINISTRATION	W/	WITH
FIG	FIGURE	WM	WATER MAIN
FM	FORCE MAIN	WW	WASTEWATER
FDC	FACE OF CURB	WWF	WELDED WIRE FABRIC
FS	FLORIDA STATUTES		
FT	FEET		
	G		
GALV	GALVANIZED		
GM	GAS MAIN		
GV	GATE VALVE		
	H		
HDPE	HIGH DENSITY POLYETHYLENE		
HP	HIGH POINT		
	I		
ID	IDENTIFICATION		
INV	INVERT		
INV EL	INVERT ELEVATION		
IP	IRON PIPE		
	K		
K	VERTICAL CURVE RATE OF CHANGE		
	L		
L	LENGTH		
LA	LANDSCAPE ARCHITECT		
LBR	LIMEROCK BEARING RATIO		
LDR	LAND DEVELOPMENT REGULATION		
LF	LINEAR FEET		
LP	LOW POINT		
LT	LEFT		
	M		
MAX	MAXIMUM		
ME	MATCH EXISTING		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MJ	MECHANICAL JOINT		
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES		

R1-1 "STOP" - SEE PLANS FOR SIZE

	EX. PROPERTY LINE
	LANDSCAPE BUFFER LINE
	BUILDING SETBACK LINE
	WETLAND LIMITS LINE
	WETLAND SETBACK LINE
	CENTER LINE
	EASEMENT LINE
	RIGHT-OF-WAY LINE
SF SF	SILT FENCE LINE
TB TB	TREE BARRICADE LINE
	EX. STRUCTURE OR BUILDING
	PROPOSED BUILDING
	PROPOSED ASPHALTIC PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED DETECTABLE WARNING SURFACE
	DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 1736C
	WATERSHED DIVIDE
	EX. ELEVATION CONTOUR
	PROPOSED CONTOUR
	EX. SPOT ELEVATION
93.23	PROPOSED SPOT ELEVATION
	DIRECTION OF SURFACE DRAINAGE FLOW
	PROPOSED SWALE LINE
X X	EX. FENCE
	PROPOSED FENCE
12" PINE	EX. TREE (SIZE & TYPE)
1234	EX. TREE (TREE ID)
12" PINE	EX. TREE TO BE REMOVED (SIZE & TYPE)
1234	EX. TREE TO BE REMOVED (TREE ID)
	PROJECT BENCHMARK

(S-10) PROPOSED STORMWATER STRUCTURE ID TAG

 W
 W
 EX. POTABLE WATER MAIN

P-W
PROPOSED POTABLE WATER MAIN

 RCW
 RCW
 EX. RECLAIMED WATER MAIN

P-RCW
PROPOSED RECLAIMED WATER MAIN

 11.25° BEND W / MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

 22.5° BEND W / MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

 45° BEND W / MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

 90° BEND W / MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

 TEE (POTABLE AND RCW)

 CROSS (POTABLE AND RCW)

 BLOWOFF ASSEMBLY (POTABLE AND RCW)

 REDUCER (POTABLE AND RCW)

 GATE VALVE AND BOX (POTABLE AND RCW)

 PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)

 AIR RELEASE VALVE (POTABLE AND RCW)

 POST INDICATOR VALVE (POTABLE AND RCW)

 FIRE HYDRANT ASSEMBLY

 PROPOSED FIRE HYDRANT ASSEMBLY

 PROPOSED SAMPLE POINT

 EX. WATER METER (POTABLE AND RCW)

 PROPOSED POTABLE WATER METER

 PROPOSED POTABLE WATER BACK FLOW PREVENTER

 DOPOSED RECLAIMED WATER METER

 EX. WATER WELL

 EX. HOSE BIB (POTABLE AND RECLAIMED)

 DOPOSED HOSE BIB (POTABLE AND RECLAIMED)

 FITTING ID TAG (POTABLE AND RECLAIMED)

EX. GRAVITY WASTEWATER MAIN

PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)

EX. WASTEWATER FORCE MAIN

PROPOSED WASTEWATER FORCE MAIN

EX. WASTEWATER MANHOLE

PROPOSED WASTEWATER MANHOLE

EX. WASTEWATER CLEANOUT

PROPOSED WASTEWATER CLEANOUT

PROPOSED WASTEWATER GREASE TRAP

PROPOSED WASTEWATER MANHOLE ID

11.25' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

22.5' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

45' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

90' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

WYE W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

EX. PLUG VALVE AND BOX (WW FORCE MAIN)

PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)

EX. AIR RELEASE VALVE (WW FORCE MAIN)

PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)

THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT LOCATIONS, DIMENSION, AND DETAILS.

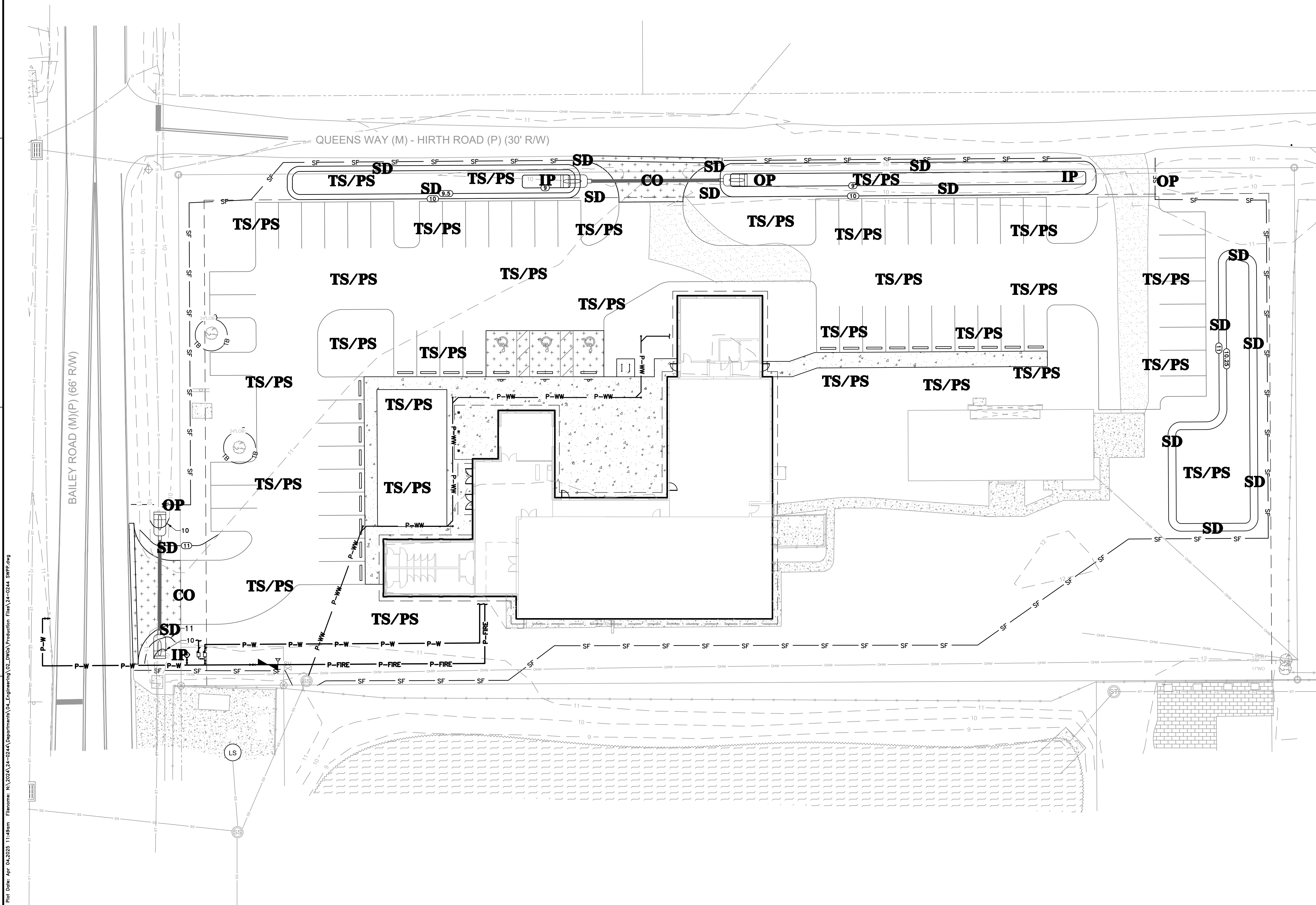
— P — ATT	PROPOSED AT&T LINE
— BC — BC —	EX. BURIED CABLE LINE
— P — BC	PROPOSED BURIED CABLE LINE
— 8TEL —	EX. BURIED TELEPHONE LINE
— P — TEL	PROPOSED TELEPHONE LINE
— CATV —	EX. CABLE TELEVISION LINE
— P — TV	PROPOSED CABLE/TELEVISION LINE
— FO — FO —	EX. FIBER OPTIC LINE
— UGTEL —	EX. UNDERGROUND TELEPHONE LINE
EX. TELEPHONE PEDESTAL	
EX. TELEVISION/CABLE PEDESTAL	
— CHW — CHW —	EX. CHILLED WATER MAIN
— P — CHW —	PROPOSED CHILLED WATER MAIN
— FIRE —	EX. FIRE MAIN
— P — FIRE —	PROPOSED FIRE MAIN
— IRR — IRR —	EX. IRRIGATION LINE
— P — IRR —	PROPOSED IRRIGATION LINE
— STEAM —	EX. STEAM LINE
— P — STEAM —	PROPOSED STEAM LINE
— P — CLAY —	PROPOSED CLAY ELECTRIC LINE
— E — E —	EX. ELECTRIC LINE
— P — E —	PROPOSED ELECTRIC LINE
— EN — EN —	EX. ENERGY LINE
— P — LIGHT —	PROPOSED PRIVATE LIGHTING LINE
— OHW — OHW —	EX. OVERHEAD WIRE LINE
— UGE — UGE —	EX. UNDERGROUND ELECTRIC LINE

- EX. LIGHT
- EX. UTILITY POLE
- EX. UTILITY POLE
- EX. WOOD POWER POLE
- EX. GUY ANCHOR
- PROPOSED TRANSFORMER
- EX. GAS LINE
- PROPOSED GAS LINE
- EX. GAS MARKER
- EX. GAS MARKER

NOTES:

1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.

2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.



STORMWATER POLLUTION PREVENTION LEGEND

- TS** = TEMPORARY SEEDING
PS = PERMANENT SEEDING
ML = MULCHING
SD = SOD STABILIZATION
— SF — = SILT BARRIER
— TB — = TREE BARRIER
IP = INLET PROTECTION
OP = OUTLET PROTECTION
CO = CONSTRUCTION ENTRANCE/EXIT

REFER TO C2.30 FOR DETAILS.

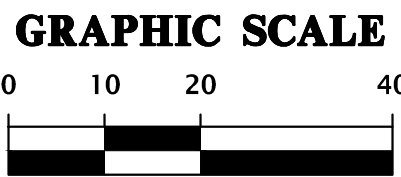
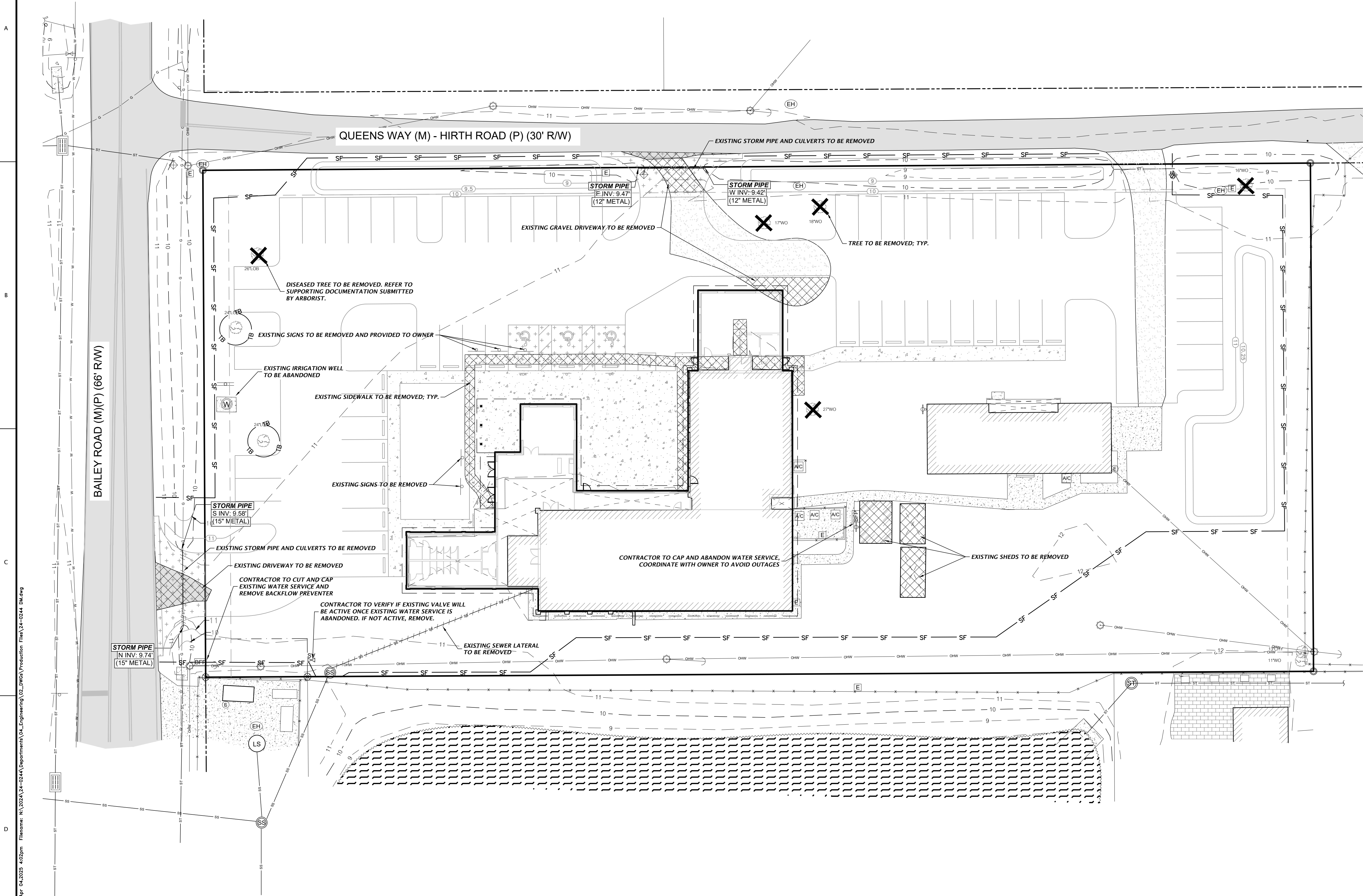
BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR SYNTHETIC HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.
2. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
3. THE SWALE SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE BASE. THE SWALE SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.
4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
5. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
6. REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.
7. WHERE SWALE TOP IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

File Name: RA_2024\34-0244\Department\04_Engineering\02_SWPPP\Production Files\34-0244_SWPPP.dwg
Title: Stormwater Pollution Prevention Plan
Plot Date: Apr 04/2025 11:49am
User: jhastay

CH2M HILL AN NVIS COMPANY		11801 Research Drive Alhambra, Florida 32615 (352) 331-1976 www.ch2m-hill.com		est. 1988 FLORIDA CA-5075	
SCALE: 1"=20'		VERIFY SCALE BASE IS ONE INCH ON DRAWING EQUALS 20 FEET ON GROUND IF NOT ONE INCH ON DRAWING EQUALS 20 FEET ON GROUND			
SUBMITTALS		12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY			
CLIENT		CHRISTWALK CHURCH			
PROJECT		CHRISTWALK CHURCH FERNANDINA BEACH			
SHEET TITLE		STORMWATER POLLUTION PREVENTION PLAN			
TECHNICIAN		G. WADZINSKI			
DESIGNER		C. MEHNERTT, E.I.			
QUALITY CONTROL		T. HASTAY, P.E.			
PROJECT NUMBER		24-0244			
SHEET NO.		C0.21			

Travis J. Hastay
State of Florida, Professional Engineer, License No. 84295
This item has been electronically signed and sealed by Travis J. Hastay, P.E. on 04/04/2025 using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copy.
Travis J. Hastay
17541104107
FL PE No. 84295



- LEGEND**
- EXISTING TREE TO BE REMOVED
 - EXISTING FEATURES TO BE REMOVED
 - TB TREE BARRICADE
 - SF SILT FENCE

- NOTES:**
- CONTRACTOR SHALL HAVE ALL SILT FENCE & TREE BARRICADES INSTALLED PRIOR TO ANY SITE WORK.
 - CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING OR BETTER CONDITION.
 - CONTRACTOR TO COORDINATE WITH DOH OR FDEP FOR PROPER REMOVAL AND DISPOSAL OF ANY EXISTING ONSITE SEPTIC SYSTEMS OR WELL SYSTEMS.
 - CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING ABOVE AND UNDERGROUND UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANY AS NEEDED TO SUPPORT POLES DURING CONSTRUCTION.
 - SEE SHEET C2.30 FOR DETAILS.

Test: clean Plot Date: Apr 04, 2023 4:02pm Filename: N:\2024\24-0244\Demolition\04_Engineering\02_DWG\Production\Fla\24-0244-DM.dwg

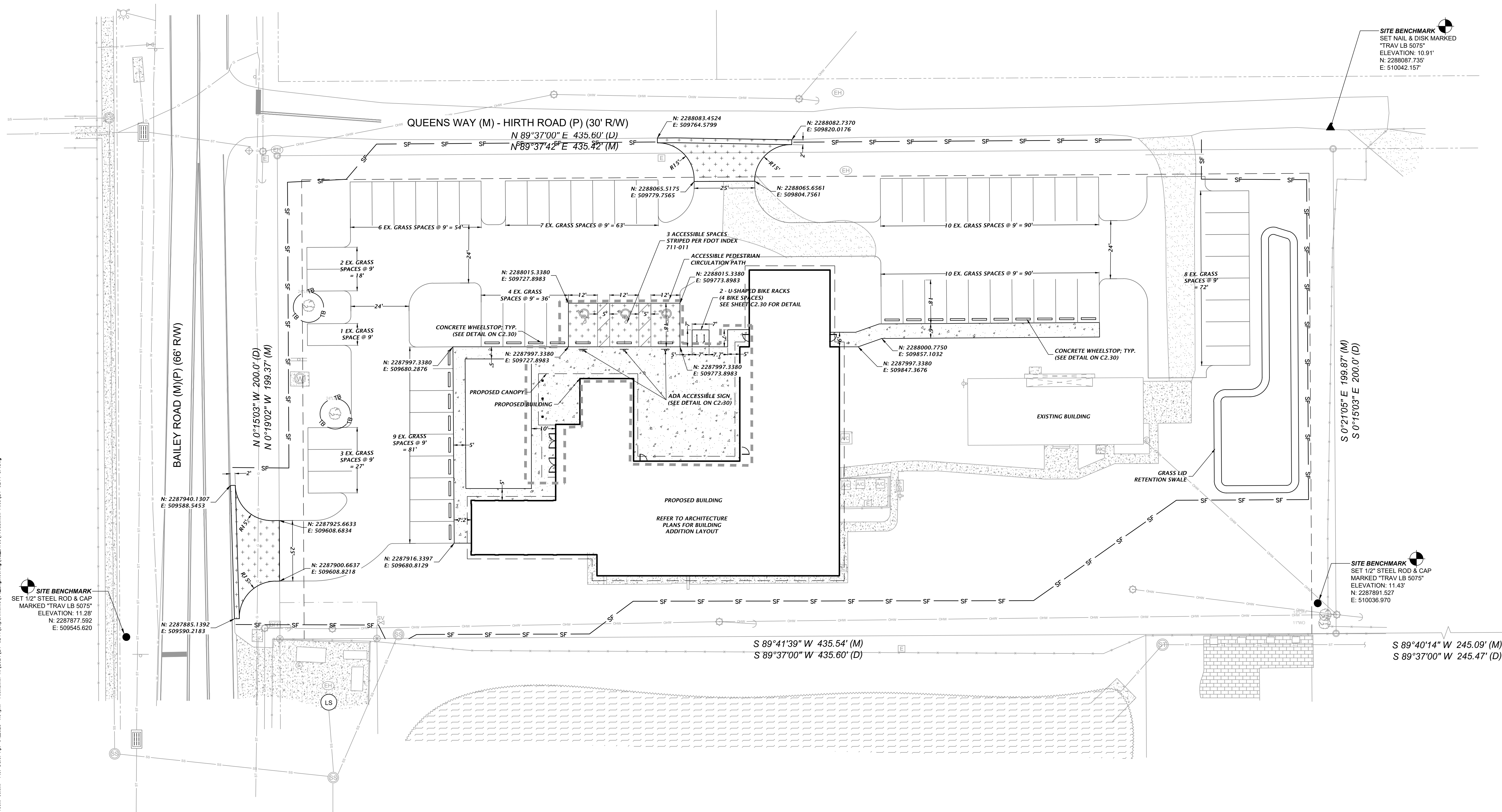
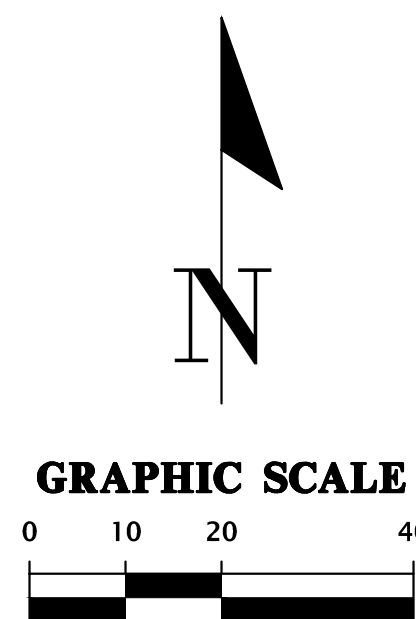
CHW AN INVIS COMPANY		11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA CA-5075	
SCALE: 1"=20'		VERIFY SCALE BASE IS ONE INCH ON DRAWING EQUALS IF NOT ONE INCH ON DRAWING, SCALES ACCORDINGLY.	
SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY			
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH	SHEET TITLE: DEMOLITION PLAN
DESIGNER: C. MEHRENNETT, E.I.	PROJECT:	PROJECT NUMBER: 24-0244	
QUALITY CONTROL: T. HASTAY, P.E.			
TRAVIS J. HASTAY State of Florida, Professional Engineer, License No. 84295 This item has been electronically signed and sealed by Travis J. Hastay, PE on 04/04/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copy. Travis J. Hastay 17548 EB 04107 FL PE No. 84295			

***EXISTING GRASS PARKING APPROVED IN ASSOCIATION WITH CHRISTWALK CHURCH SITE PLANS DATED 08/04/2009.**

1. SEE SURVEY FOR BENCHMARK ELEVATIONS, LOCATIONS, AND DESCRIPTIONS.
2. CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
3. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES IMPLEMENTATION ACT"; ADD STANDARDS FOR ACCESSIBLE DESIGN, FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHERE APPLICABLE.

 CONCRETE SIDEWALK
(REFER TO C2.30 FOR DETAIL)

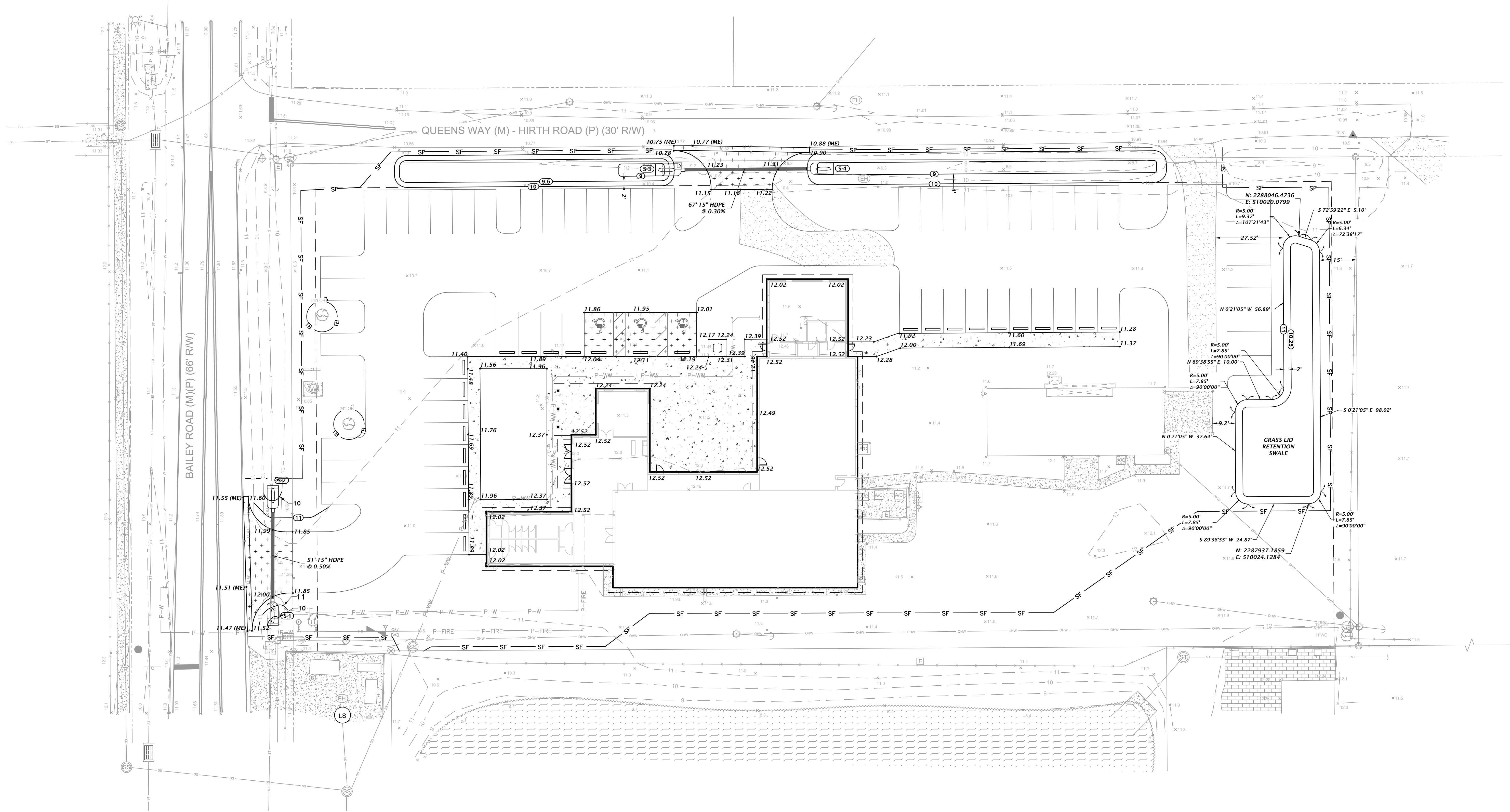
 CONCRETE DRIVEWAY/PARKING
(REFER TO C2.30 FOR DETAIL)



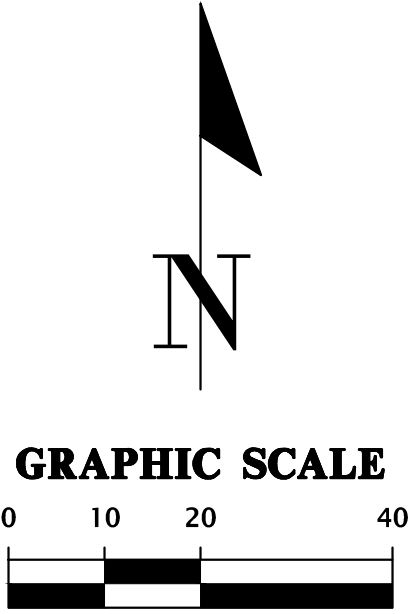
SHEET NO.:
C1.10

A
B
C
D

Test: cdem Plot Date: Apr 04, 2025 5:08pm Filename: N:\2024\24-0244\Department\02_DWG\Production\Fla\24-0244_02.dwg



STORMWATER STRUCTURE TABLE				
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.
S-1	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	9.85 N	15"
S-2	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	9.60 S	15"
S-3	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	8.85 E	15"
S-4	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	8.65 W	15"



11801 Research Drive
Alhambra, Florida 32615
(352) 331-1976
www.chw-inc.com

CHW
AN INVIS COMPANY

est. 1988 **FLORIDA**
CA-5075

SCALE: 1"=20'

VERIFY SCALE
BASE IS ONE INCH ON
DRAWING, EXCEPT
IF NOT ONE INCH ON
DRAWING, ALL
SCALES ACCORDINGLY.

SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY

CLIENT: CHRISTWALK CHURCH

PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH

DESIGNER: G. WADZINSKI

DESIGNER: C. MENHENTT, E.I.

DESIGNER: T. HASTAY, P.E.

QUALITY CONTROL: T. HASTAY, P.E.

PROJECT NUMBER: 24-0244

SHEET TITLE: GRADING AND DRAINAGE PLAN

TRAVIS J. HASTAY
State of Florida, Professional
Engineer, License No. 84295

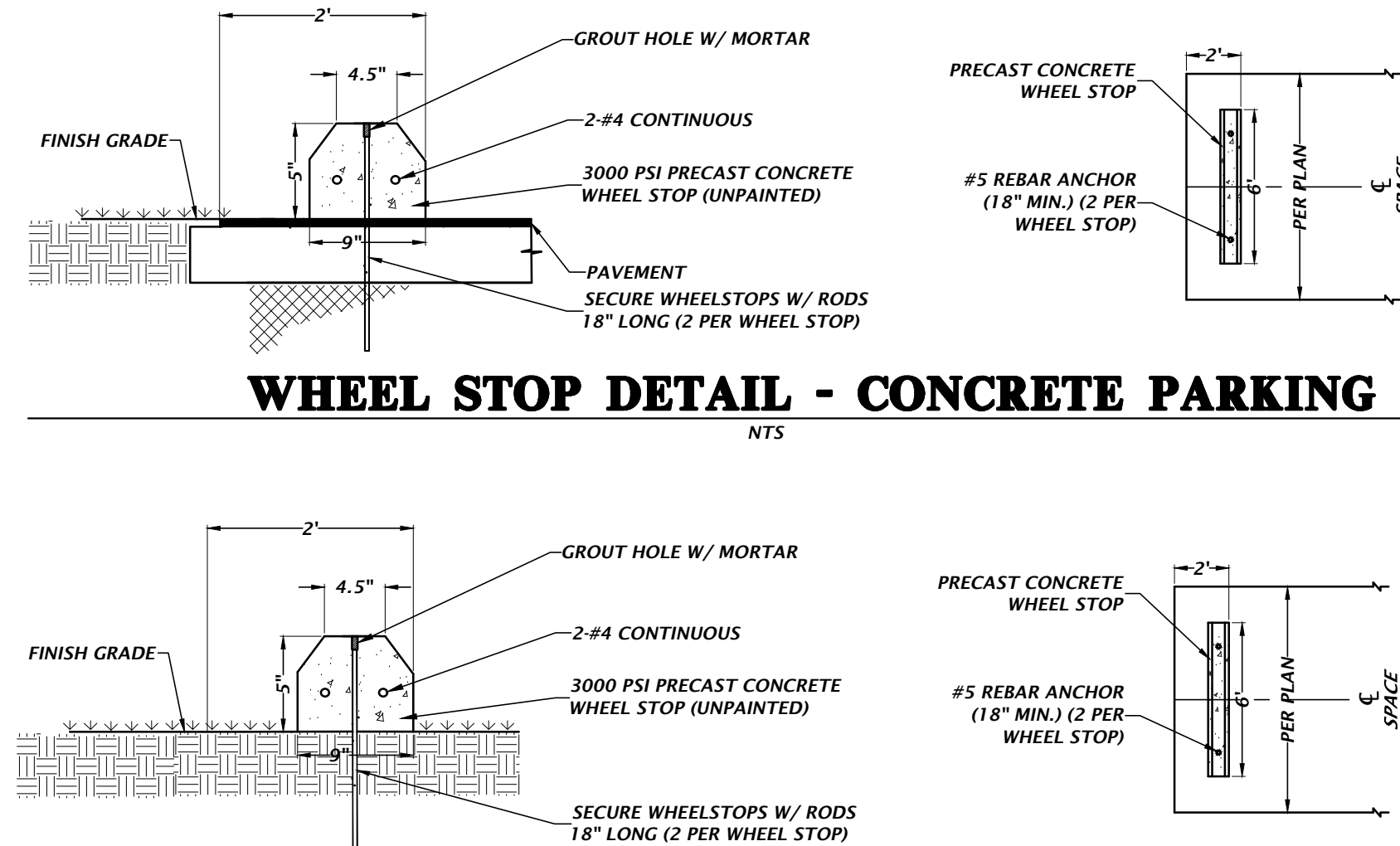
This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/04/2025 using a
Digital Signature.

Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copy.

Travis J. Hastay
11801 Research Drive
Alhambra, FL 32615
352-331-1976
www.chw-inc.com

FL PE No. 84295

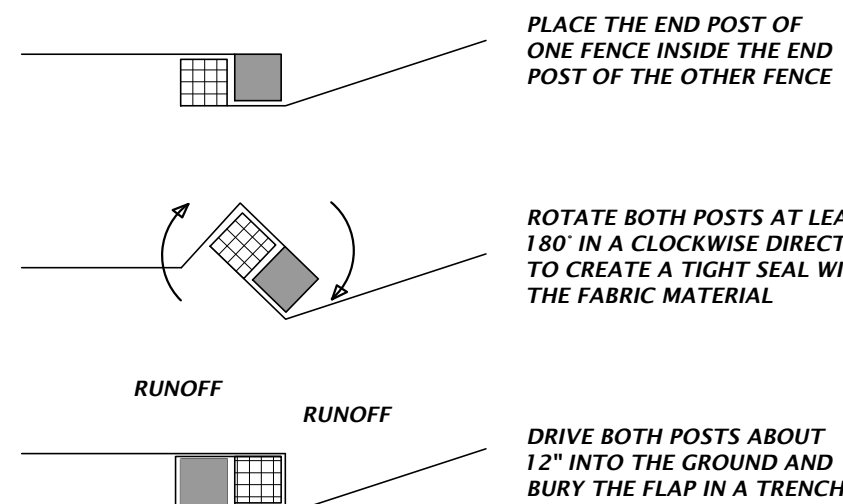
SHEET NO. **C2.10**



NOT ADJACENT TO PAVEMENT

WHEEL STOP DETAIL - CONCRETE PARKING

WHEEL STOP DETAIL - GRASS PARKING



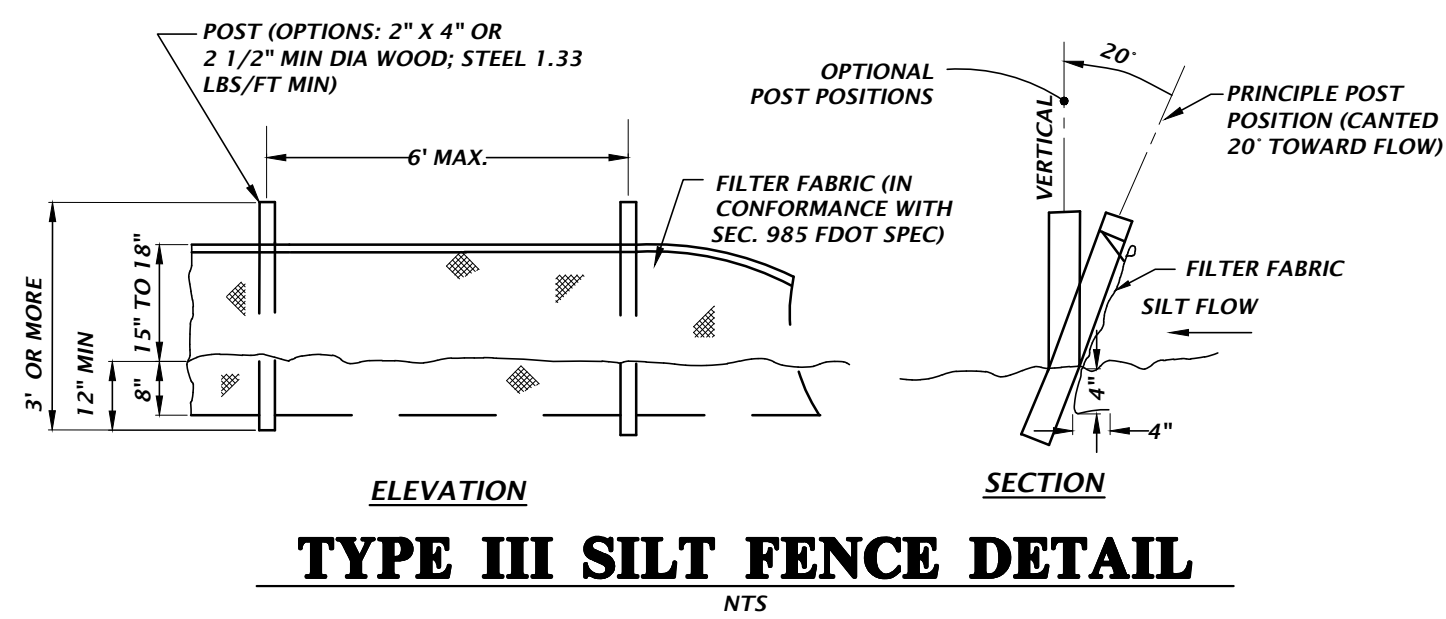
TREE PROTECTION DETAIL

- ### TREE PROTECTION NOTES
- 1) PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED WITHIN 50 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS.
 - 2) PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CARRY A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES OR STORED MATERIALS.
 - 3) NO TRENCHING ALLOWED WITHIN THE PROTECTIVE BARRIER ZONE. HAND DIG TO INSTALL UTILITY IF APPROVED BY COUNTY MANAGER. DISCOVER WITH ROOTS GREATER THAN AN INCH IN DIAMETER ARE DAMAGING TO EXPOSE THE ROOTS. CUT CLEANLY AND RE-SECOVER WITH SOIL WITHIN ONE HOUR OF DAMAGE OR EXPOSURE.
 - 4) PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN.
 - 5) LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF 4 INCHES.
 - 6) NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS.
 - 7) THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300 PART V: MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE DEVELOPMENT, AND SITE CONSTRUCTION OR OTHER NATIONALLY RECOGNIZED ARBORICULTURAL STANDARDS SHALL BE USED AS GUIDELINES FOR TREE PROTECTION DURING PRUNING AND CROWN DEVELOPMENT AND CONSTRUCTION.



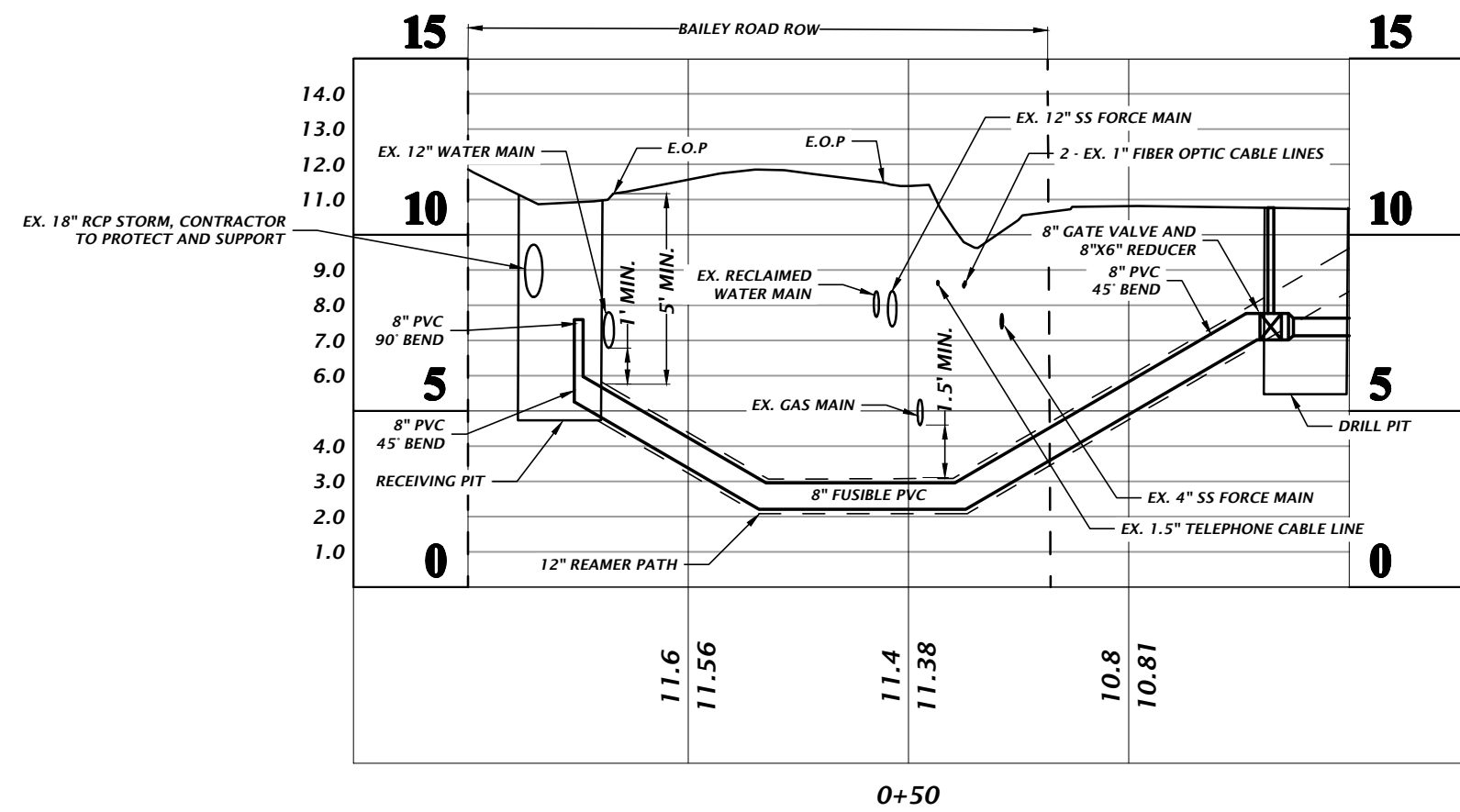
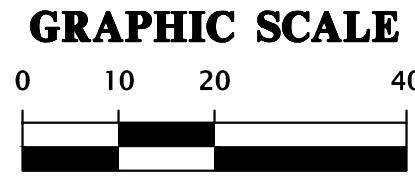
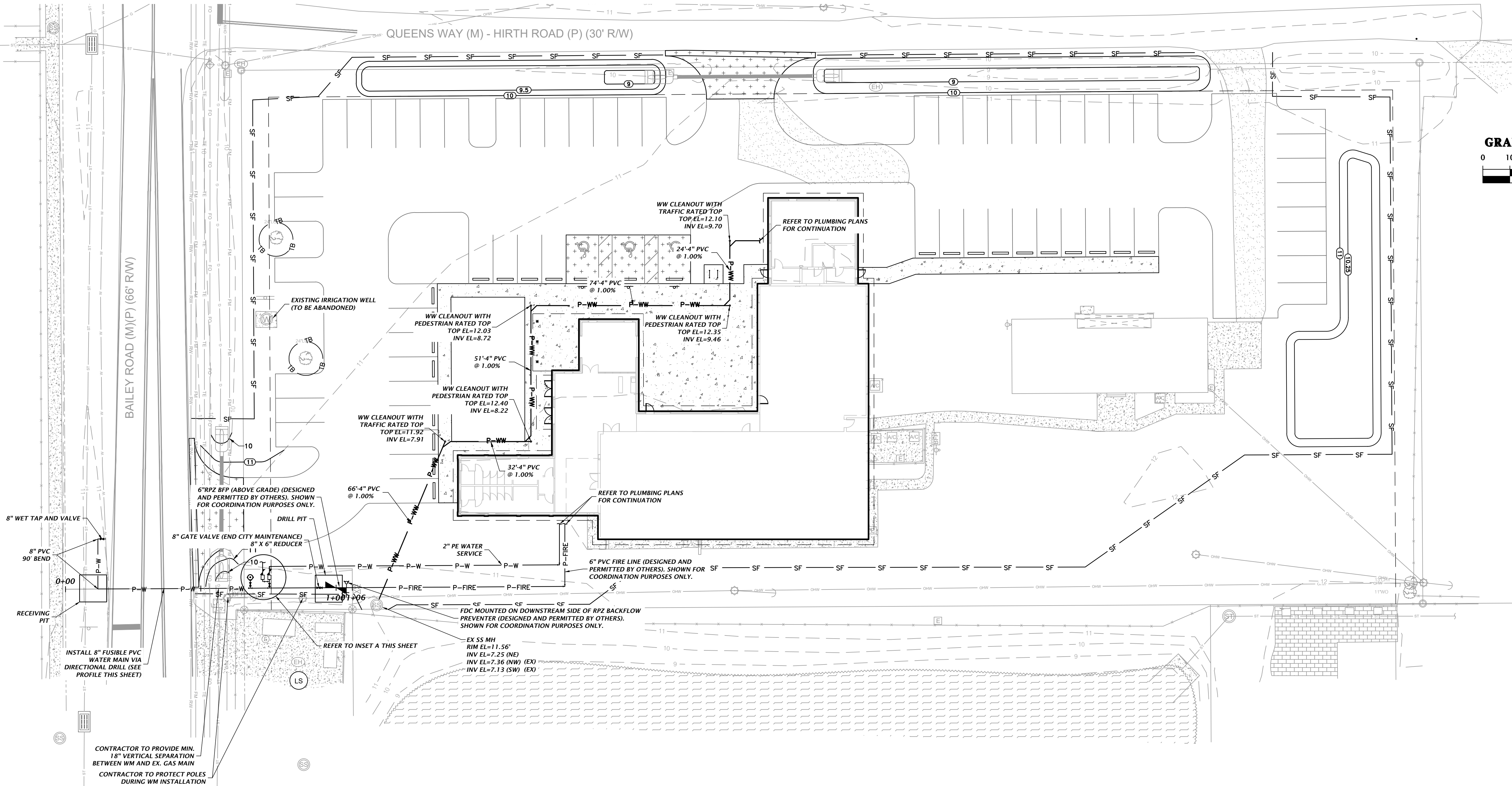
- NOTES:**
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
 2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.

TEMPORARY CONSTRUCTION EXIT WITH WASH RACK

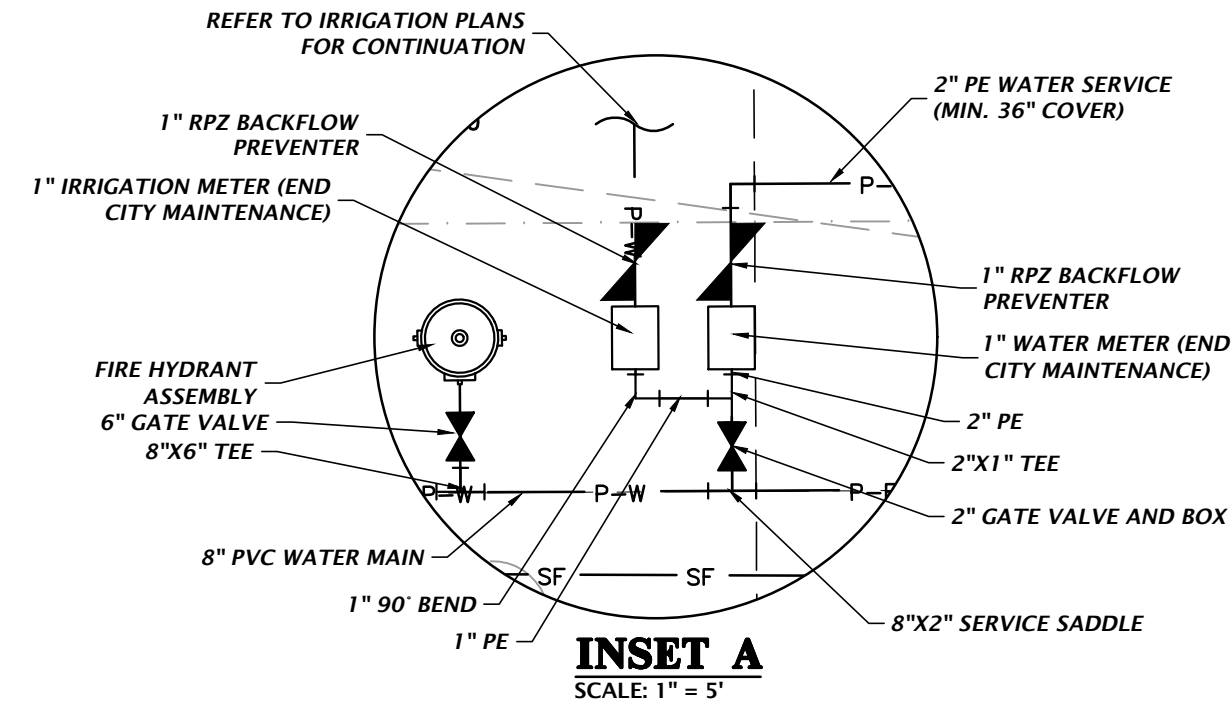


TYPE III SILT FENCE DETAIL

Tests: sdsm Plot Date: Apr 04, 2023 5:05pm Filename: N:\2024\24-0244\Department\02_Engineering\02_DWG\Production\Fla\24-0244_U7.dwg



DIRECTIONAL DRILL PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



1801 Research Drive Auburn, Florida 32615 (352) 331-1976 www.dhw-inc.com		est. 1988 FLORIDA CA-5075	
CHW		AN INVIS COMPANY	
SCALE: 1" = 20'	VERIFY SCALE BASE IS ONE INCH ON DRAWING	IF NOT ONE INCH ON DRAWING, VERIFY SCALES ACCORDINGLY.	
SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY			
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH	DESIGNER: C. MEHRETT, E.I.	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
QUALITY CONTROL: T. HASTAY, P.E.	SHEET TITLE: UTILITY PLAN	PROJECT NUMBER: 24-0244	
Travis J. Hastay State of Florida, Professional Engineer, License No. 84295 This item has been electronically signed and sealed by Travis J. Hastay, P.E. on 04/04/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic document by Travis J. Hastay City of Christwalk Travis J. Hastay Professional Engineer License No. 84295 FL PE No. 84295			
SHEET NO. C3.10			

GENERAL NOTES & SPECIFICATIONS FOR WATER MAIN INSTALLATIONS

1. All materials and construction under this project shall be in strict accordance with the requirements of the City of Fernandina Beach Utilities Department (FBU) and/or Nassau County Public Works Department (NCPWD) and/or the Florida Department of Transportation (FDOT) and shall conform to the standards and specifications available and on file with the department. As a minimum requirement, the standards of the AWWA shall apply.

2. Minimum cover over water mains shall be 3'-0" unless specific written exception is issued or required by an authorized representative of FBU.

3. Detector tape shall be installed 18" above the centerline of water mains and services.

4. All water main line valves shall be installed complete with 10" riser pipes and No. 3 valve boxes. Fire hydrants and service valves shall be installed complete with 6" riser pipes and No. 2 valve boxes.

5. All water meters up to 2" will be installed by department personnel providing the appropriate charges have been pre-paid. Provision of service pipes, backflow preventers, valves and meter or pits will be in accordance with construction plans and specifications approved by FBU.

6. Fire hydrant requirements (number and location) shall be as required by the Fire Department or the appropriate fire agency with installations in accordance with FBU standards.

7. Contractor MUST call the FBU Inspection Division and all other applicable permitting agencies to arrange for a Pre-Construction Meeting at least 72 hours prior to proposed start of construction.

8. FBU personnel will inspect all facilities approved by the Engineering Department. All other requirements of the permitting agency shall be in accordance with their standards and requirements.

9. Work performed under this project will not be considered as complete until final acceptance of the system by the department and until the following documents are reviewed and approved by FBU:

- Easements, if required (whether by deed or plat suitably recorded)
- Contractor's Waiver and Release of Lien
- Absolute Bill of Sale
- Contractor's Letter of Warranty (i.e. Letter Agreement)
- Contractor's Maintenance Bond (for 1 year)
- As-built 3 mil mylar 24" x 36" showing specific locations, depths, etc. of all water facilities as located by a licensed surveyor, along with two (2) prints of the "As-Built" which have been signed and sealed by a registered surveyor or Engineer of record and endorsed by the Contractor in accordance with FBU standards.

10. All new connections from existing FBU mains to be inspected by FBU forces prior to backfill.

11. The Contractor shall be responsible for verifying all locations, dimensions, elevations and the locations of all underground structures and utilities prior to the start of construction. The locations shown on the plans are not guaranteed accurate or correct by the known utility companies.

12. Thrust blocks shall be provided at all bends, tees, and plugs in accordance with FBU standard details.

13. All new fittings at reaction points shall be fitted with megadug retainer glands or approved equal, meeting FBU requirements. All valves are to be restrained with retainer glands.

14. Pipe installation, cleaning, flushing, testing, and disinfecting, as per FBU and State of Florida Department of Health and Rehabilitative Services Standards for the installation of water mains by customer donation projects.

15. Preliminary cleaning of all water mains 12" and larger to be accomplished by use of a poly-pig per FBU standards.

16. The Contractor is responsible for the cost of inspections for any construction activities occurring outside normal working hours (8:00 a.m. to 5:00 p.m.) Saturdays and Sundays and holidays excluded and arrangements for inspections outside normal working hours must be made a minimum of 48 hours in advance of the construction activity.

17. All trenches to be over-excavated a minimum of 6" to provide for installation of rock bedding in accordance with FBU Standards.

18. Surface restoration, pavement replacement, sidewalk replacement, trench backfilling and compaction shall comply with the applicable current FBU, NCPWD and FDOT Standards.

19. All gate valves to be resilient seat per AWWA-C509.

20. Where field conditions require, as determined by FBU, the water main shall be polyethylene encased in accordance with AWWA-C105.

21. The Contractor shall be responsible for providing FBU with IRS Letter of Clearance to Place a Public Drinking Water Facility Into Service. The Engineer of record shall provide FBU with a signed and sealed pressure test report certifying pressure test results.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

POTABLE WATER MAINS
GENERAL NOTES

Date

Revisions

Appr. by

Date: July 2000

Scale: N.T.S.

Dwg: F101b

Fig: 300

GENERAL NOTES & SPECIFICATIONS FOR WATER MAIN INSTALLATIONS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTES

1. A horizontal distance of 10 feet shall be maintained between water and sewer mains. When a 10 foot horizontal distance criteria cannot be met due to an existing underground facility conflict, the sewer shall be constructed of ductile iron pipe with mechanical joints.

2. A vertical distance of at least 18 inches shall be maintained between any water and sewer mains. The sewer shall be ductile iron single 20 feet length centered on the crossing if the minimum vertical distance is less than 18 inches or the sewer is installed above the water main regardless of separation).

3. In highly congested areas, where either water or sewer facilities are existing and the separation requirements cannot be met, special consideration may be given subject to a complete evaluation of existing and proposed conditions.

4. The contractor shall verify nature, depth, character of existing underground utilities prior to start of construction.

NOTE: WHEN WATER CROSSES SEWER

1. Force mains must have an 18-inch vertical separation from water lines. No exceptions.

2. Sewer lines, including laterals, must have 18 inch vertical clearance between water mains and/or 6 inches minimum clearance if sewer line is DIP and has no joints within 10 feet of intersection (i.e. one 20 ft. joint DIP centered on intersection). Storm drainage lines are exempt if DIP water main separation of 6" is maintained and both pipes have no joints within 10 feet of intersection.

TRENCH PROTECTION

Trench excavation protection shall be accomplished as required by the provisions of Part 1926, Subpart P, Excavations, Trenching and Shoring of the Occupational Safety and Health Administration Standards and Interpretations.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

POTABLE WATER MAINS
GENERAL NOTES

Date

Revisions

Appr. by

Date: July 2000

Scale: N.T.S.

Dwg: F101c

Fig: 300A

3'x3'x6" THICK CONCRETE SLAB OR
SIDEWALK FLAG. (SEE NOTE 1)

SEE NOTE 3

(4) TRAFFIC POSTS
SEE NOTES 1 AND 2

6'-0" VARIES

GATE VALVE

THRUST BLOCK/
RESTRAINED

MECH JOINT
TEE

HYDRANT OPERATING
NUT

HOSE NOZZLE

AS REQ'D.

PUMPER NOZZLE
FACING ACCESS
R/W

CONC. VALVE
BOX PAD

CAST IRON
VALVE BOX

M J HYDRANT
ANCHORING TEE
(RESTRAINED)

COMPACTED
BACKFILL

6" PIPE (MIN)
(SEE NOTE 5)

12" VARIES

12" MIN.

5'-FT MAX.

UNDISTURBED
SOIL

6" BEDDING ROCK

12" MIN
RESTRAINED JOINTS

M J ANCHORING COUPLING
(SEE NOTE 3)

6" RESILIENT SEAT GATE
VALVE (SEE FIG 115)

NOTES:

1. HYDRANT GUARDS TO BE 4" DIAMETER GALVANIZED STEEL PIPE FILLED WITH CONCRETE AND TO BE PLACED AT LOCATION AS REQUESTED BY THE CITY.

2. OMIT REAR GUARDS IN LOCATION WHERE SIDEWALKS EXIST.

3. USE MECHANICAL JOINT RETAINER GLAND CLOW MODEL NO. F105B, MEGA-LUGS OR APPROVED EQUAL.

4. HYDRANT SETBACK SHALL BE SET TO A DISTANCE OF 7'-FT MAXIMUM AND 4'-FT MINIMUM FROM THE EDGE OF PAVEMENT OR CONFORM TO D.O.T. REQUIREMENTS WHERE APPLICABLE.

5. SERVICE LINES FOR FIRE HYDRANTS TO BE SIZED TO ALLOW A MINIMUM OF 20 PSI RESIDUAL PRESSURE AT THE HYDRANT UNDER FIRE FLOW CONDITIONS.

6. TWO BLUE REFLECTIVE PAVEMENT MARKERS FOR IDENTIFICATION OF THE HYDRANT AND ITS VALVE LOCATION SHALL BE INSTALLED ON THE CENTER OF THE ADJACENT PAVED DRIVE LANE TO THE HYDRANT; MARKERS SHALL BE SPACED 1'-FT APART, PERPENDICULAR TO THE ROAD CENTERLINE.

7. NO GUARDPOST ALLOWED IN DOT RIGHTS-OF-WAY.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

FIRE HYDRANT ASSEMBLY DETAIL

Date

Revisions

Appr. by

Date: Nov. 2000

Scale: N.T.S.

Dwg: F103

Fig: 335

PRECAST MANHOLE
WALL

GROUT

STAINLESS STEEL
BAND

PVC OR DIP

STAINLESS STEEL
PIPE CLAMP

KOR N SEAL FLEXIBLE BOOT
ADAPTER OR EQUAL

STANDARD PRECAST MANHOLE
PIPE CONNECTION

NOTES:

1. THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER

2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT PIPES WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE BOTTOM.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

MANHOLE CONNECTION DETAIL
(WITH BUILT-IN RUBBER BOOT)

Date

Revisions

Appr. by

Date: July 2000

Scale: N.T.S.

Dwg: F201

Fig: 410

11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com

CHW
AN INVIS COMPANY

1988 FLORIDA
CA-5075

SCALE

N/A

VERIFY SCALE
BASE IS ONE INCH ON
DRAWING EQUALS
FOOT
IF NOT ONE INCH ON
DRAWING, SCALE
APPROPRIATELY

CONSTRUCTION AND REVISIONS

12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
NASSAU COUNTY PUBLIC WORKS DEPARTMENT

04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY

CLIENT

CHRISTWALK CHURCH

PROJECT

CHRISTWALK CHURCH
FERNANDINA BEACH

SHEET TITLE

UTILITY DETAILS

TECHNICIAN

G. WADZINSKI

DESIGNER

C. MERRINETT, E.I.

QUALITY CONTROL

T. HASTAY, P.E.

PROJECT NUMBER

24-0244

TRAVIS J. HASTAY

Travis J. Hastay
State of Florida, Professional
Engineer, License No. 84295

This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/04/2025 using a
Digital Signature.

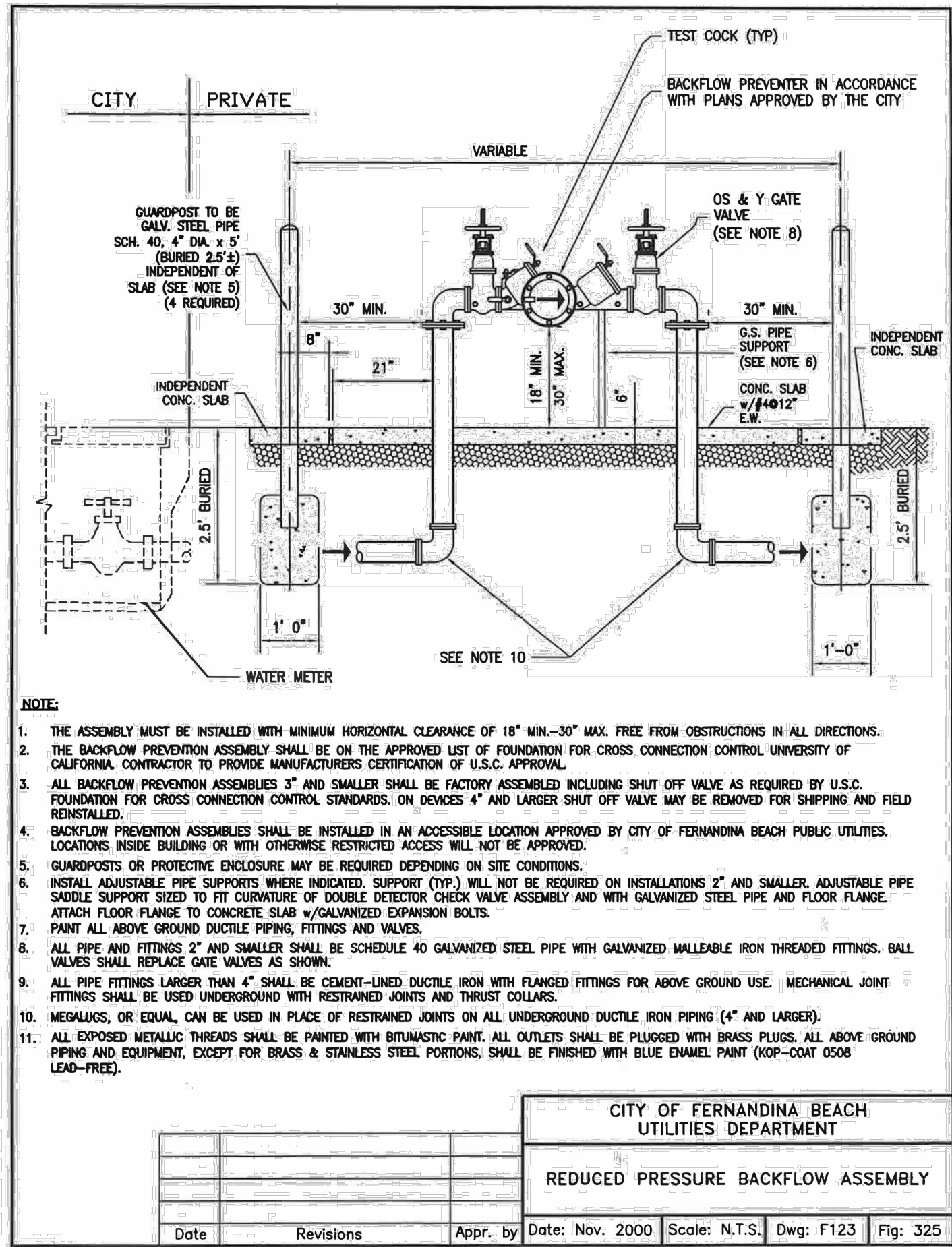
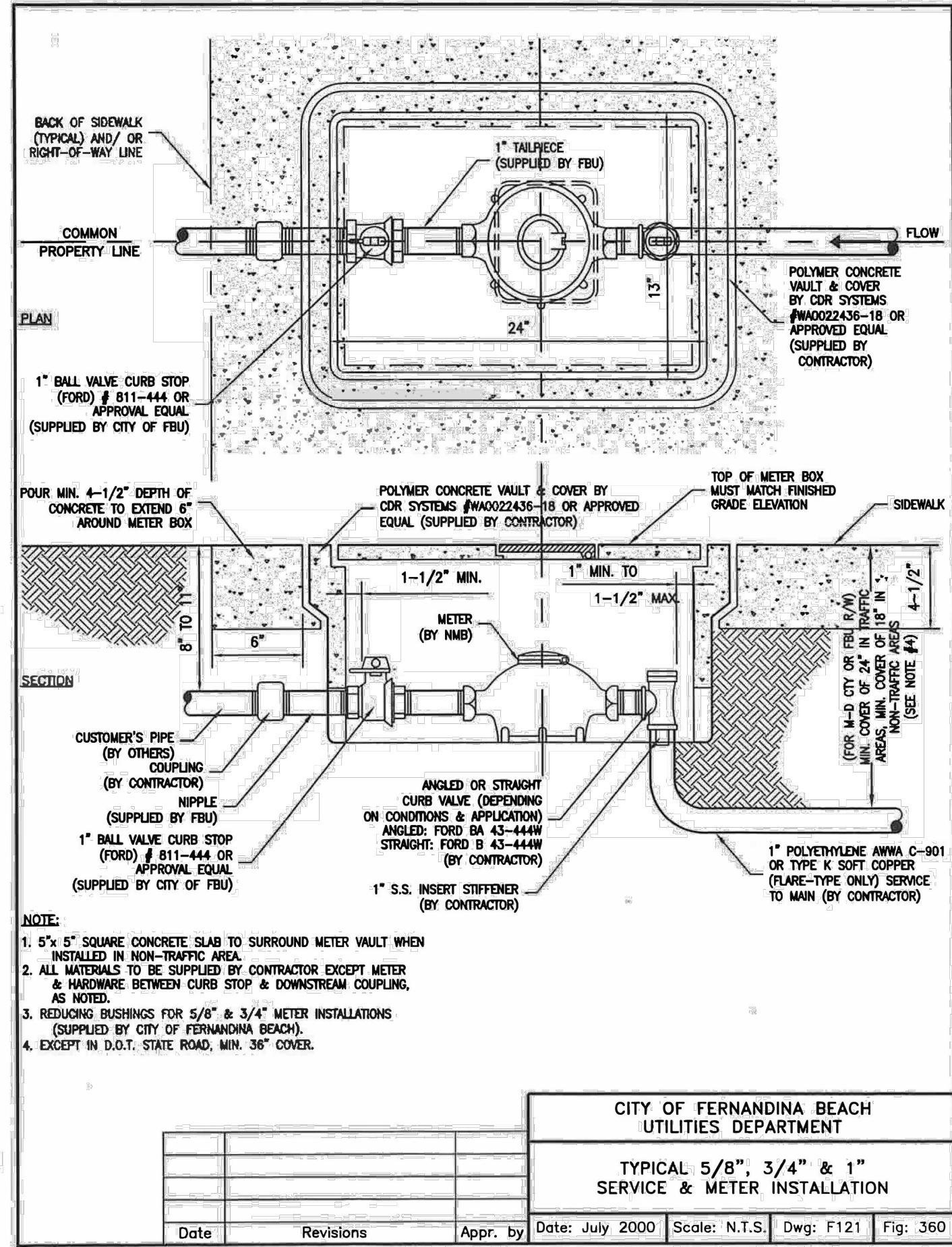
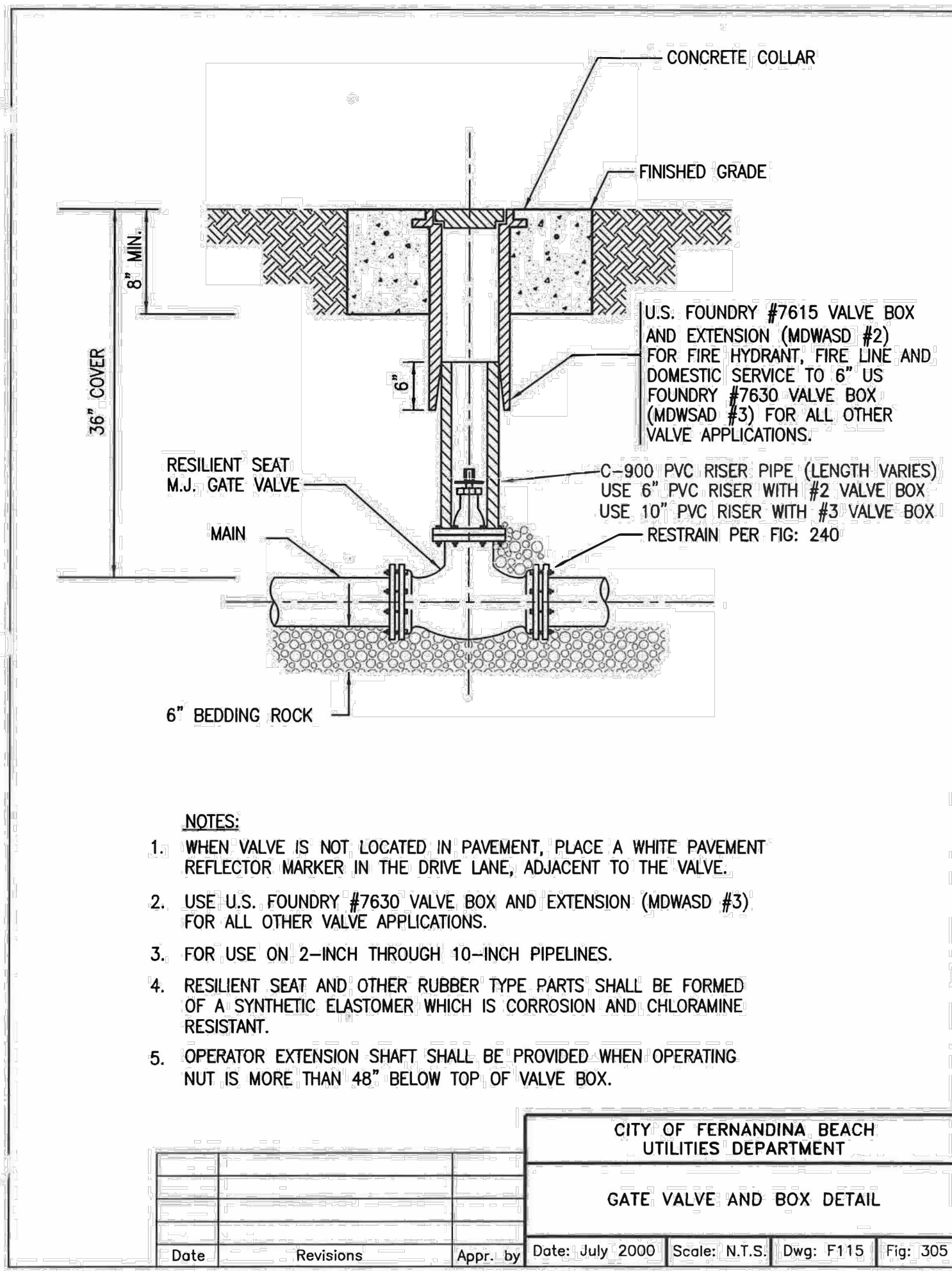
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic document.

Travis J. Hastay
1754 90 04107
FL PE No. 84295

SHEET NO.

C3.20

Test: jerryp Plot Date: Apr 04/2025 11:52am Filename: RA_2024\34-0244\Department\04_Engineering\02_DWG\Production\Title_34-0244_01.dwg



11801 Research Drive
Alicia, Florida 32615
(352) 331-1976
www.chw-inc.com

FLORIDA
CA-5075

CHW

AN INVIS COMPANY

N/A

VERIFY SCALE
BASE IS ONE INCH ON
DRAWING
IF NOT ONE INCH ON
DRAWING, SCALES ACCORDINGLY

12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY

CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH
SHEET TITLE: UTILITY DETAILS

TECHNICIAN: G. WADZINSKI
DESIGNER: C. MERRINETT, E.I.
QUALITY CONTROL: T. HASTAY, P.E.
PROJECT NUMBER: 24-0244

TRAVIS J. HASTAY
State of Florida, Professional
Engineer, License No. 84295
This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/04/2025 using a
Digital Signature.
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic document
using the following:
Travis J. Hastay
04/04/2025
C:\Users\TJHastay\Documents\Projects\24-0244\24-0244.dwg
FL PE No. 84295

SHEET NO. C3.21



April 15, 2025

Cole Menhennett
CHW, an NV5 Company
11801 Research Dr.
Alachua, FL 32615
cole.menhennett@nv5.com

Sent Via Email to Project Team

Applicant Name:

Project Description: Christwalk Church Building Addition

Location: 2920 Bailey Rd

PIN(s): 00-00-30-044B-0045-0020

TRC Case Number: TRC 2024-0010

Mr. Menhennett,

The City of Fernandina Beach received your request for site plan review on Friday, April 4, 2025. A complete application was determined on Tuesday, April 8, 2025. All submitted documents provided were routed to the Technical Review Committee (TRC). The comments provided as part of this site plan review are valid for six months from the date of issuance.

Please submit response documents to address each comment in a narrative form and with an amended site plan no later than Thursday, May 1, 2025, for staff to schedule the public hearing to review the project at the TRC meeting on Thursday, May 22, 2025, at 10am at City Hall Commission Chambers.

If you have any questions, please contact us at TRCinfo@fbfl.city or 904-310-3480.

Sincerely,

Margaret Pearson on Behalf of

Kelly N. Gibson, AICP
TRC Coordinator



REVIEW COMMENTS:

PLANNING

☐ The Planning Department has reviewed the submittal and noted the following comments:

Please submit an Arborist Assessment of Loblolly Pine to be removed. Dn 4/11/25

The submitted landscape plan shows 30 native shade trees being planted (18 East Palatka Hollies are not considered shade trees due to their size, please change species to comply with definition of native shade tree), this site requires 56 native shade trees on site per LDC 4.05.06(B), applicant cannot plant under powerlines limiting required native shade trees to 48. Please plant 8 understory trees to make up for powerline restriction planting area. Dn 4/11/25

OR

☐ All previous comments have been addressed, and the Department of Planning & Conservation approves issuance of a local development order

Name of Reviewer: Planning Staff

Today's Date: Tuesday, April 15, 2025

BUILDING

☐ The Building Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Building Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

UTILITIES, STORMWATER, & STREETS

☐ The Public Works Departments has reviewed the submittal and noted the following comments:

OR



☒ All previous comments have been addressed, and the Public Works Department approves issuance of a local development order.

Name of Reviewer: Victoria Guadagnino

Today's Date: Friday, April 11, 2025

CODE ENFORCEMENT

☐ The Code Enforcement Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed and the Code Enforcement Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

FIRE

☐ The Fire Department has reviewed the submittal and noted the following comments:

-

OR

☒ All previous comments have been addressed and the Fire Department approves issuance of a local development order.

Name of Reviewer: Jason Higginbotham

Today's Date: Monday, April 14, 2025

CONSTRUCTION PLANS
FOR:
CHRISTWALK CHURCH
BUILDING ADDITION

CITY OF FERNANDINA BEACH
NASSAU COUNTY FLORIDA

SECTION 5, TOWNSHIP 2 NORTH, RANGE 28 EAST

SUBMITTED TO:
CITY OF FERNANDINA BEACH
NASSAU COUNTY

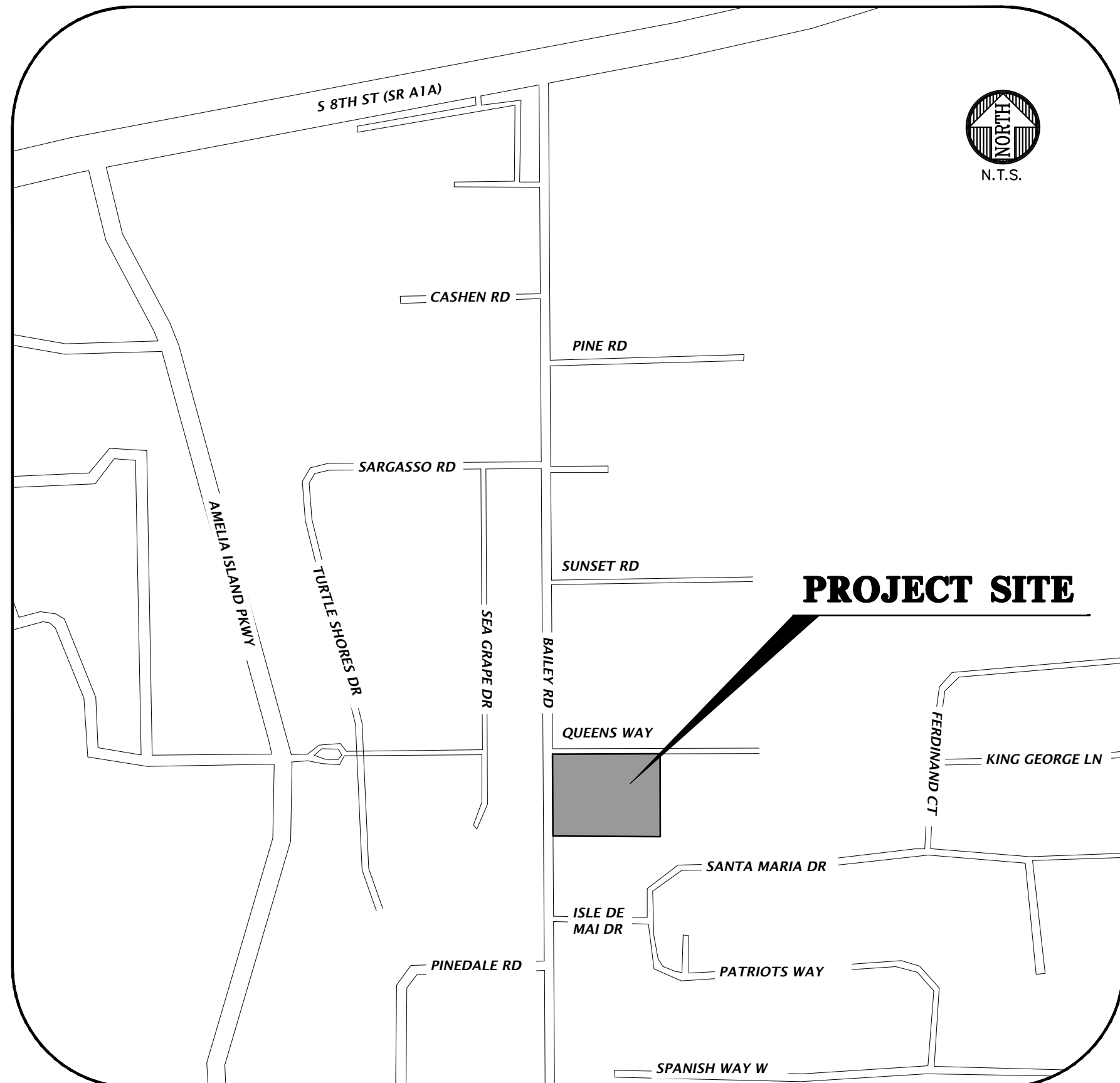
OWNER
CHRISTWALK CHURCH OF GOD
2920 BAILEY ROAD
FERNANDINA BEACH, FL 32034

SURVEYOR OF RECORD
AARON H. HICKMAN
CHW
11801 RESEARCH DRIVE
ALACHUA, FL. 32615
(352) 331-1976

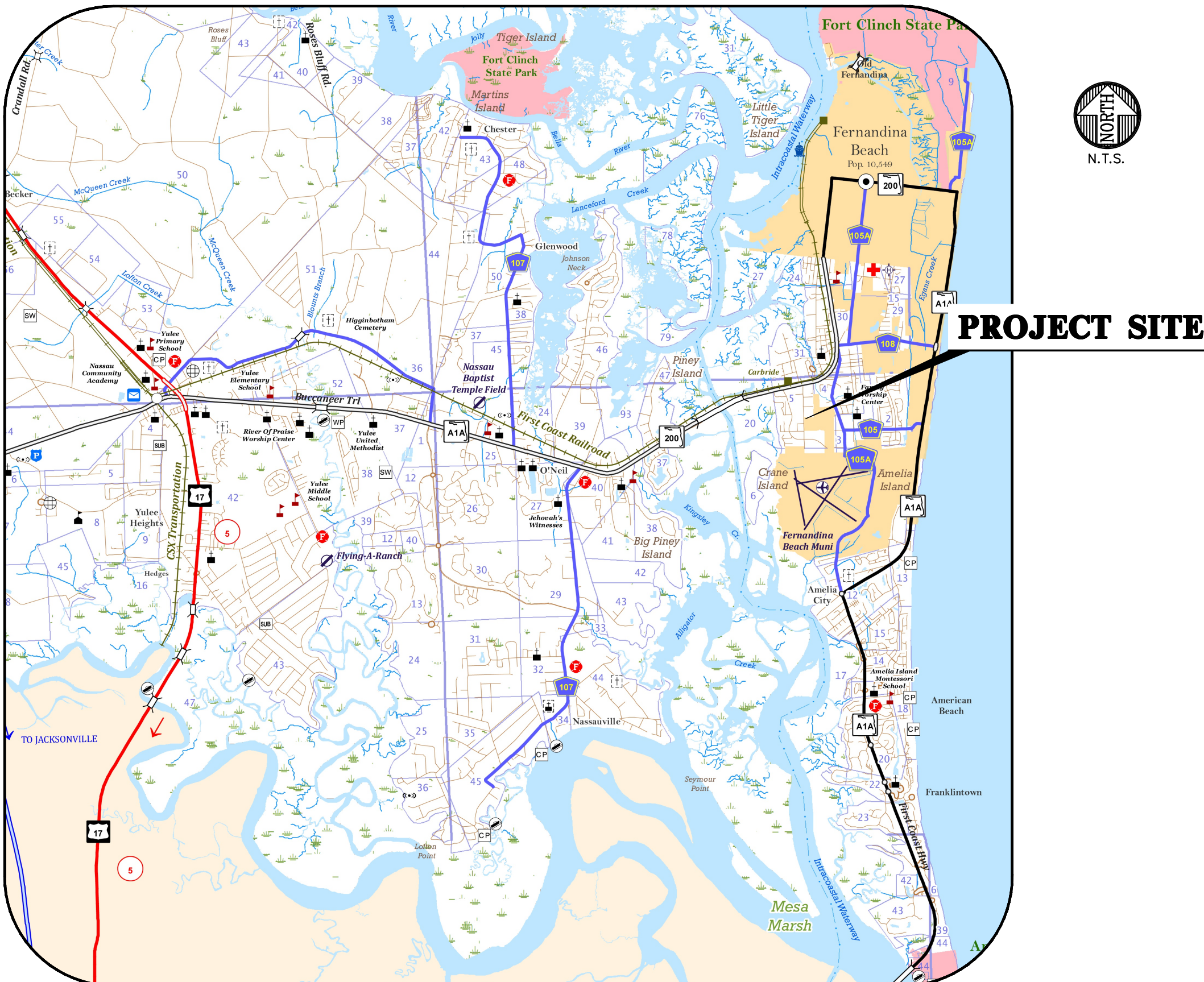
ENGINEER OF RECORD
TRAVIS J. HASTAY P.E.
CHW
11801 RESEARCH DRIVE
ALACHUA, FL. 32615
(352) 331-1976

LANDSCAPE ARCHITECT
JOHN MICHAEL SIMPSON
CHW
11801 RESEARCH DRIVE
ALACHUA, FLORIDA 32615
(352) 331-1976

ARCHITECT
ELIZABETH C. GLASS
RARDIN AND CAROL ARCHITECTS, INC.
6105 PRESERVATION DRIVE - SUITE A
CHATTANOOGA, TN 37416
(423) 364-1443



VICINITY MAP



LOCATION MAP

DEVELOPMENT DATA

TAX PARCEL #: 00-00-30-0448-0045-0020		
DEVELOPMENT AREA:	86,928 S.F.	2.00 AC
BUILDING AREA:	11,568 S.F.	13.3%
PROPOSED SANCTUARY BUILDING:	9,530 S.F.	11.0%
EXISTING CHURCH OFFICE BUILDING:	2,038 S.F.	2.3%
ROADS/CURB/SIDEWALKS:	11,300 S.F.	13.0%
IMPERVIOUS AREA:	22,868 S.F.	26.3%
OPEN SPACE:	64,060 S.F.	73.7%
PROPOSED IMPERVIOUS SURFACE RATIO:	26.3%	
MAXIMUM IMPERVIOUS SURFACE RATIO:	60.0%	
PROPOSED FLOOR AREA RATIO:	13.3%	
MAXIMUM FLOOR AREA RATIO:	50.0%	
PROPOSED BUILDING HEIGHT:	32 FT	
MAXIMUM BUILDING HEIGHT:	35 FT	
EXISTING CONDITIONED SPACE:	6,400 SF	
PROPOSED ADDITIONAL CONDITIONED SPACE:	3,130 SF	
TOTAL CONDITIONED SPACE:	9,530 SF	

GENERAL NOTES

EXISTING FUTURE LAND USE: LOW DENSITY RESIDENTIAL

EXISTING ZONING: R-1

DESCRIPTION: THE PROJECT CONSISTS OF AN ADDITION TO THE EXISTING CHIRSTWALK CHURCH BUILDING, ASSOCIATED SIDEWALKS, DRIVEWAY APRONS, ADA PARKING, AND UTILITY IMPROVEMENTS.

PARKING CALCULATION:
REQUIRED: ASSEMBLY SPACES (RELIGIOUS FACILITIES)
1 SPACE PER 4 SEATS
250 SEATS / 4 = 63 PARKING SPACES

EXISTING*: 60 GRASS PARKING SPACES

PROPOSED: 3 ACCESSIBLE PARKING SPACES

TOTAL: 63 PARKING SPACES

*EXISTING GRASS PARKING APPROVED IN ASSOCIATION WITH CHRISTWALK CHURCH SITE PLANS DATED 08/04/2009.

LANDSCAPING:
PROTECTED TREES: 9
TREES TO BE REMOVED: 5
SHADE TREES TO BE PLANTED: 46
*UNDERSTORY TREES TO BE PLANTED: 8
SHADE TREES TO BE PRESERVED: 2
TOTAL SHADE TREES ON SITE: 48

*UNDERSTORY TREES HAVE BEEN PLANTED IN AREAS WHERE EXISTING OVERHEAD UTILITIES PREVENT THE PLANTING OF SHADE TREES.

LEGAL DESCRIPTION: (OFFICIAL RECORDS BOOK 2103, PAGE 1353)

A PART OF LOT FORTY-FIVE (45), OCEAN BREEZE FARMS, AS RECORDED IN PLAT BOOK 2, PAGE 19, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF BEGINNING, COMMENCE AT THE NORTHWEST CORNER OF SAID LOT FORTY-FIVE (45); THENCE NORTH 89°37'00" EAST ALONG THE NORTH LINE OF SAID LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET; THENCE SOUTH 00°15'03" EAST, A DISTANCE OF 200.0 FEET; THENCE SOUTH 89°37'00" WEST PARALLEL TO THE AFOREMENTIONED NORTHERLY LINE OF LOT FORTY-FIVE (45), A DISTANCE OF 435.60 FEET TO A POINT IN THE EASTERLY RIGHT OF WAY LINE OF BAILEY ROAD (A 66.0 FOOT RIGHT OF WAY, AS NOW ESTABLISHED), SAID LINE ALSO BEING THE WEST LINE OF SAID LOT FORTY-FIVE (45); THENCE NORTH 00°15'03" WEST ALONG THE WEST LINE OF LOT FORTY-FIVE (45), AND ALONG THE EAST RIGHT OF WAY LINE OF BAILEY ROAD, A DISTANCE OF 200.0 FEET TO THE POINT OF BEGINNING.

SHEET INDEX

SHEET NUMBER	DESCRIPTION
C0.00	COVER SHEET AND INDEX
C0.10	GENERAL NOTES
C0.11	LEGEND
C0.20	STORMWATER POLLUTION PREVENTION NOTES
C0.21	STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
C0.30	DEMOLITION AND TREE PROTECTION PLAN
C1.10	DETAILED HORIZONTAL CONTROL AND SITE PLAN
C2.10	GRADING AND DRAINAGE PLAN
C2.30	CONSTRUCTION DETAILS
C3.10	DETAILED UTILITY PLAN
C3.20 - C3.21	UTILITY DETAILS
1 OF 1	BOUNDARY AND TOPOGRAPHIC SURVEY
A0-1 - A2-1	ARCHITECTURAL FLOOR PLAN(S)/ELEVATION(S)
LS-1 - LS-2	LANDSCAPE PLAN
IR-1 - IR-2	IRRIGATION PLAN

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE
DIGGING OR DISTURBING EARTH

1-800-432-4770

Know what's below.
Call before you dig.

11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.dhw-inc.com
FLORIDA
CA-5075
est. 1988

CHW
AN INVIS COMPANY

N/A
VERIFY SCALE
BASE IS ONE INCH ON
0' GRAPHIC SCALE
IF NOT ONE INCH ON
0' GRAPHIC SCALE, ALL
SIZES ACCORDINGLY.

12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY
04/28/25 - CITY OF FERNANDINA BEACH

CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH
SHEET TITLE: COVER SHEET AND INDEX

TECHNICIAN: G. WADZINSKI
DESIGNER: C. MENHNETT, E.I.
QUALITY CONTROL: T. HASTAY, P.E.
PROJECT NUMBER: 24-0244

Travis J. Hastay
State of Florida, Professional
Engineer, License No. 84295
This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/28/2025 using a
Digital Signature.
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.
Travis J. Hastay
11801 Research Drive
Alachua, FL 32615
(352) 331-1976
FL PE No. 84295

SHEET NO.: C0.00

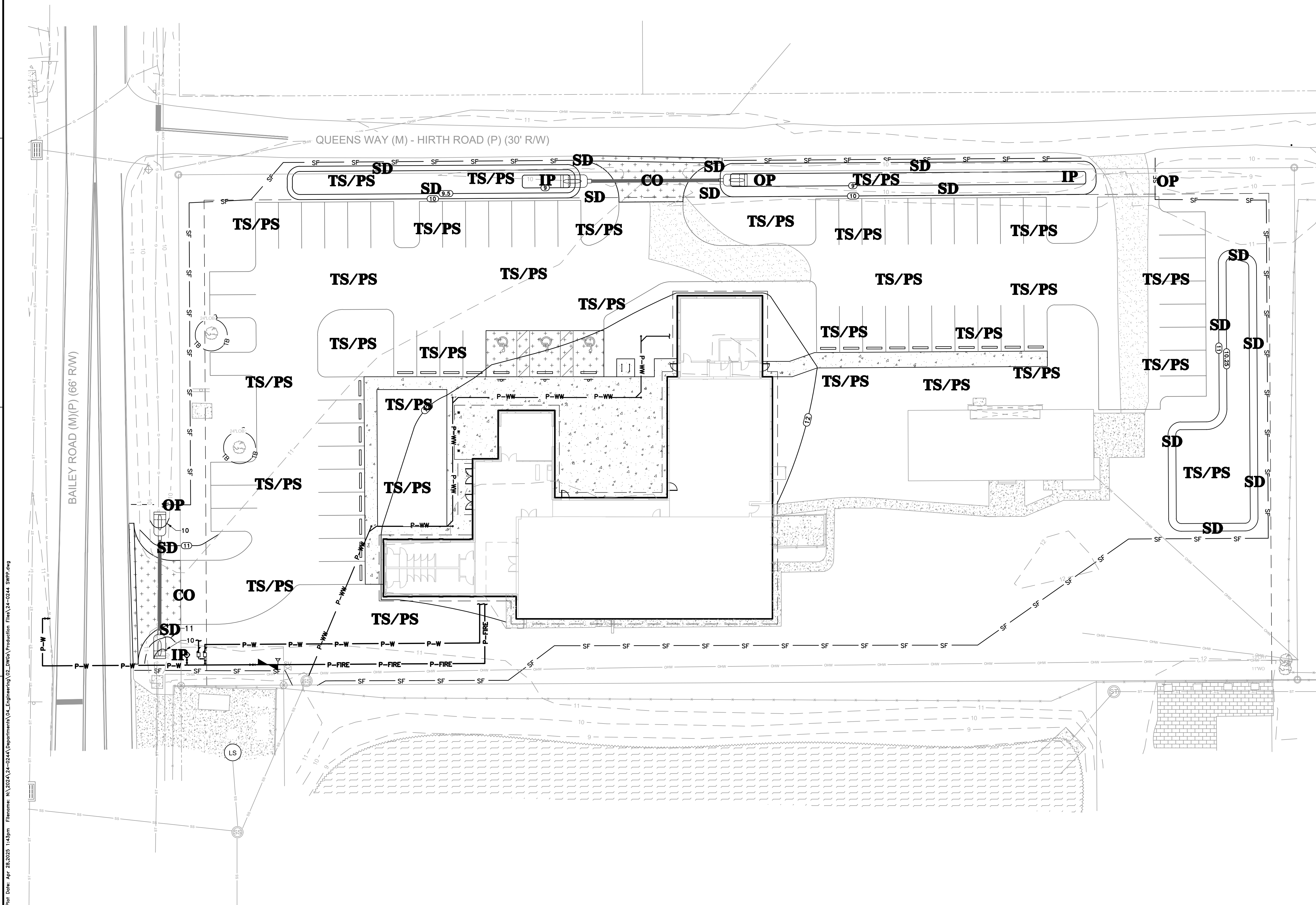
A

- B

D

- D

SUBMITTALS		CONSTRUCTION AND REVISIONS		SCALE		AN HW 5 COMPANY	
12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND DADE COUNTY		04/09/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY		N/A		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY	
CLIENT		PROJECT		SCALE		1"	
TECHNICIAN		QUALITY CONTROL		SCALE		1"	
DESIGNER		PROJECT		SCALE		1"	
T. WADZINSKI		CHRISTWALK CHURCH		SCALE		1"	
C. MEHNERTT, E.I.		CHRISTWALK CHURCH FERNANDINA BEACH		SCALE		1"	
T. HASTAY, P.E.		GENERAL NOTES		SCALE		1"	
PROJECT NUMBER		SHEET TITLE		SCALE		1"	
24-0244		TRAVIS J. HASTAY		SCALE		1"	
FL PE No. 84295		This item has been electronically signed and sealed by Travis J. Hastay, PE on 04/29/2025 using a Digital Signature.		SCALE		1"	
SHEET NO.		This printed copy of this document is not considered signed and sealed and the signatures must be verified on any electronic copies.		SCALE		1"	
C0.10		TRAVIS J. HASTAY State of Florida, Professional Engineer, License No. 84295		SCALE		1"	



STORMWATER POLLUTION PREVENTION LEGEND

TS = TEMPORARY SEEDING
PS = PERMANENT SEEDING
ML = MULCHING
SD = SOD STABILIZATION

SF = SILT BARRIER
TB = TREE BARRIER

IP = INLET PROTECTION
OP = OUTLET PROTECTION
CO = CONSTRUCTION ENTRANCE/EXIT

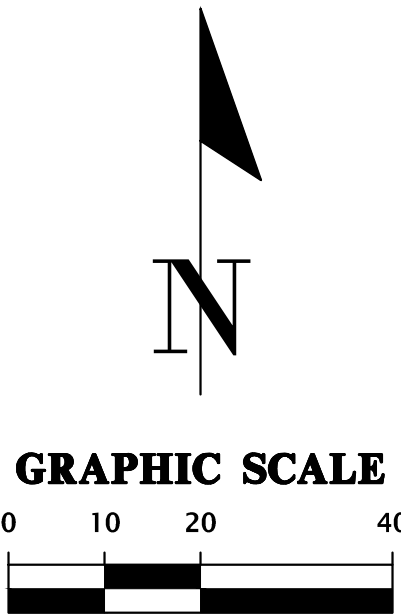
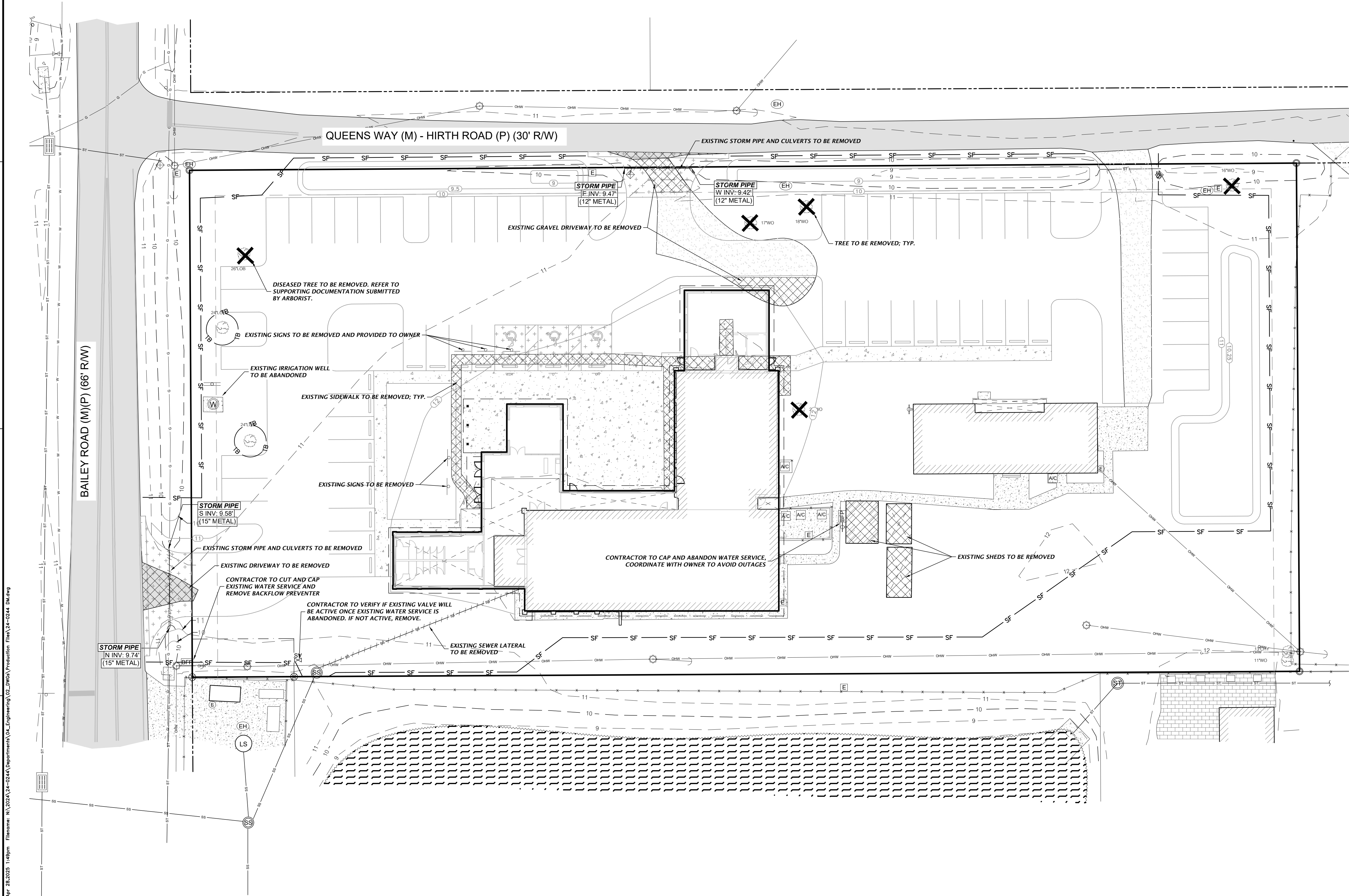
REFER TO C2.30 FOR DETAILS.

BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR SYNTHETIC HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.
2. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
3. THE SWALE SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE BASE. THE SWALE SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.
4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
5. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
6. REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.
7. WHERE SWALE TOP IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

Sheet: 0201 Plot Date: Apr 28, 2025 14:30pm Filename: H:\2024\24-0244\Department\04_Engineering\02_DWG\Production\Fla\24-0244_SWPP.dwg

11801 Research Drive Alhambra, Florida 32615 (352) 331-1976 www.dhw-inc.com est. 1988 FLORIDA CA-5075	
CHW AN INVIS COMPANY	
SCALE: 1"=20' VERIFY SCALE BASE IS ONE INCH ON DRAWING IF NOT ONE INCH ON DRAWING, VERIFY SIZES ACCORDINGLY	CONSTRUCTION AND REVISIONS
SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY 04/28/25 - CITY OF FERNANDINA BEACH	
CLIENT: CHRISTWALK CHURCH	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
TECHNICIAN: G. WADZINSKI	DESIGNER: C. MEHRENNETT, E.I.
TRAVIS J. HASTAY State of Florida, Professional Engineer, License No. 84295 This item has been electronically signed and sealed by Travis J. Hastay, PE on 04/28/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	QUALITY CONTROL: T. HASTAY, P.E. PROJECT NUMBER: 24-0244
SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN	
FL PE No. 84295 SHEET NO. C0.21	



- LEGEND**
- EXISTING TREE TO BE REMOVED
 - EXISTING FEATURES TO BE REMOVED
 - TB TREE BARRICADE
 - SF SILT FENCE

- NOTES:**
- CONTRACTOR SHALL HAVE ALL SILT FENCE & TREE BARRICADES INSTALLED PRIOR TO ANY SITE WORK.
 - CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING OR BETTER CONDITION.
 - CONTRACTOR TO COORDINATE WITH DOH OR FDEP FOR PROPER REMOVAL AND DISPOSAL OF ANY EXISTING ONSITE SEPTIC SYSTEMS OR WELL SYSTEMS.
 - CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING ABOVE AND UNDERGROUND UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANY AS NEEDED TO SUPPORT POLES DURING CONSTRUCTION.
 - SEE SHEET C2.30 FOR DETAILS.

Test: cdem Plot Date: Apr 28, 2025 1:48pm Filename: N:\2024\24-0244\Demolition\02_DWG\Production\Fla\24-0244_DM.dwg

CHW AN INVIS COMPANY		11801 Research Drive Auburn, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA CA-5075	
SCALE: 1"=20'		SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY 04/28/25 - CITY OF FERNANDINA BEACH	
TECHNICIAN: G. WADZINSKI	CLIENT: CHRISTWALK CHURCH	DESIGNER: C. MEHRENNETT, E.I.	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
TRAVIS J. HASTAY State of Florida, Professional Engineer, License No. 84295	SHEET TITLE: DEMOLITION PLAN		
This item has been electronically signed and sealed by Travis J. Hastay, PE on 04/28/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.			
FL PE No. 84295		SHEET NO.: C0.30	

PARKING CALCULATION:
REQUIRED: ASSEMBLY SPACES (RELIGIOUS FACILITIES)
1 SPACE PER 4 SEATS
250 SEATS / 4 = 63 PARKING SPACES

EXISTING: 60 GRASS PARKING SPACES

PROPOSED: 3 ACCESSIBLE PARKING SPACES

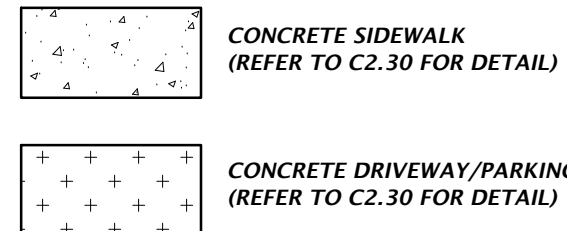
TOTAL: 63 PARKING SPACES

*EXISTING GRASS PARKING APPROVED IN ASSOCIATION WITH CHRISTWALK CHURCH SITE PLANS DATED 08/04/2009.

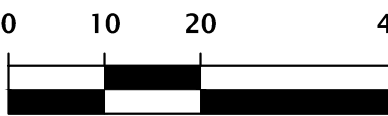
NOTES:

- SEE SURVEY FOR BENCHMARK ELEVATIONS, LOCATIONS, AND DESCRIPTIONS.
- CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
- ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES IMPLEMENTATION ACT", ADA STANDARDS FOR ACCESSIBLE DESIGN, FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHERE APPLICABLE.

LEGEND:



GRAPHIC SCALE



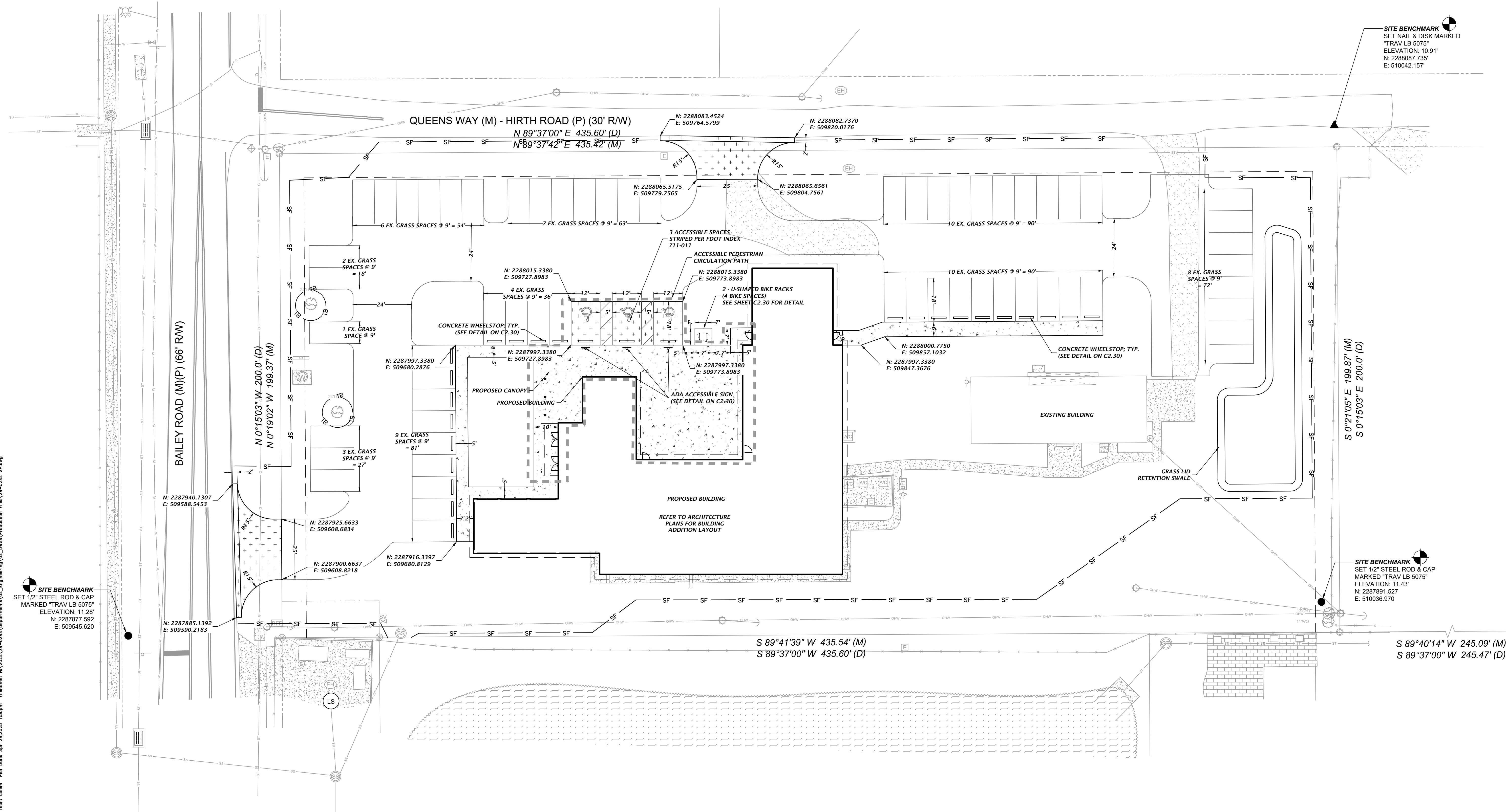
SITE BENCHMARK
SET NAIL & DISK MARKED
"TRAV LB 5075"
ELEVATION: 10.91'
N: 2288087.735'
E: 510042.157'

S 0°21'05" E 199.87' (M)
S 0°15'03" E 200.0' (D)

SITE BENCHMARK
SET 1/2" STEEL ROD & CAP
MARKED "TRAV LB 5075"
ELEVATION: 11.43'
N: 2287891.527'
E: 510036.970'

S 89°40'14" W 245.09' (M)
S 89°37'00" W 245.47' (D)

S 89°41'39" W 435.54' (M)
S 89°37'00" W 435.60' (D)

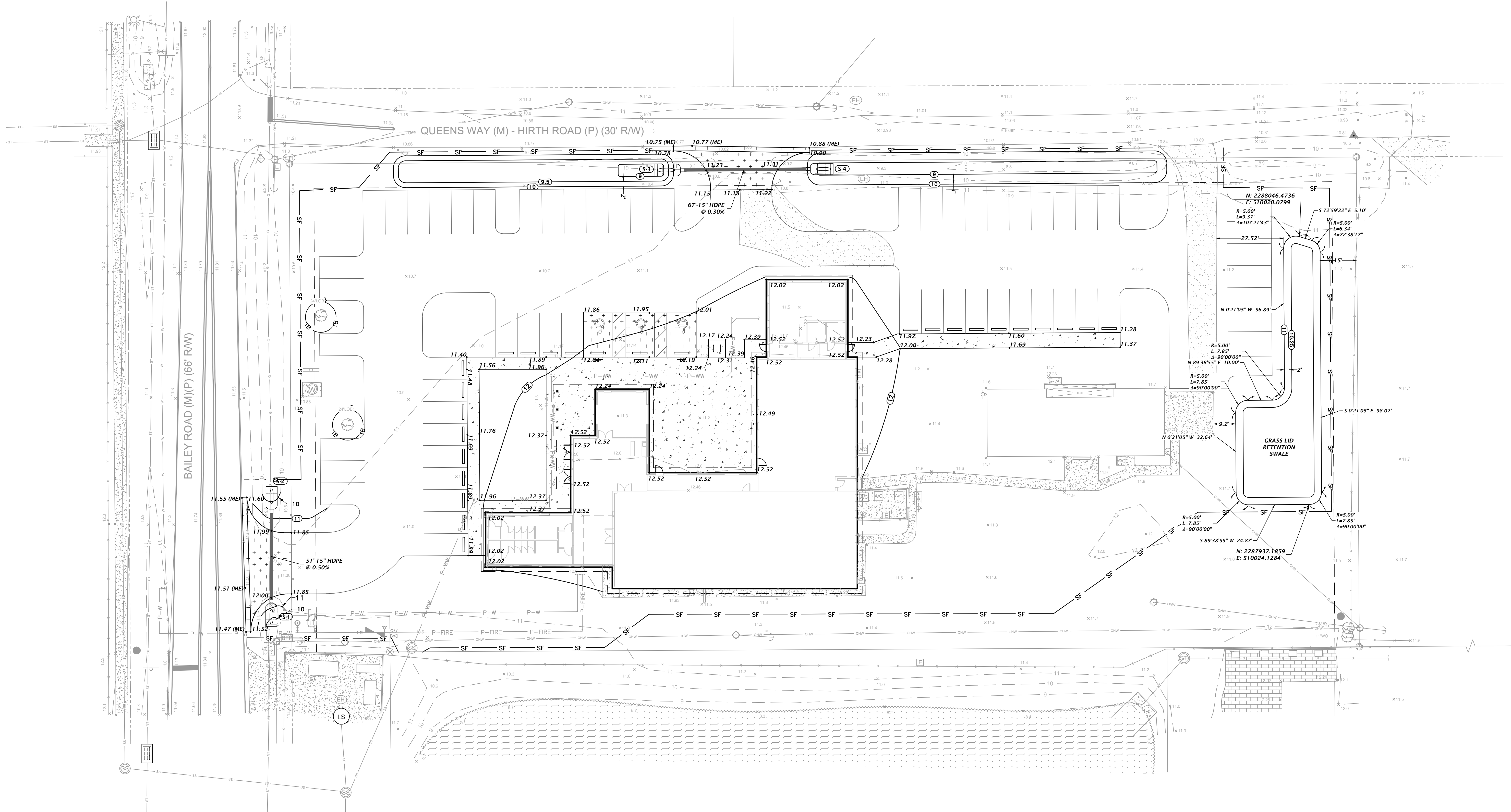


Tests: cdmm Plot Date: Apr 28, 2025 1:50pm Filename: N:\2024\24-0244\Department\02_Engineering\02_DWG\A Production File\A\24-0244_SP.dwg

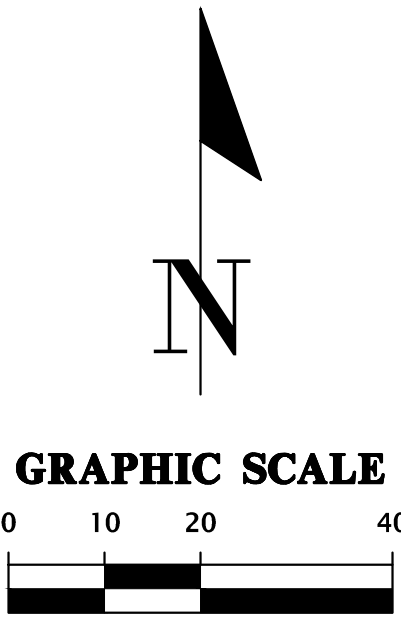
1800 Research Drive Alhambra, Florida 32615 (352) 331-1976 www.dhw-inc.com est. 1988 FLORIDA CA-5075	
CHW AN INVIS COMPANY	
SCALE: 1"=20' VERIFY SCALE BASE IS ONE INCH ON DRAWING IF NOT ONE INCH ON DRAWING, VERIFY SIZES ACCORDINGLY.	CONSTRUCTION REVISIONS:
SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY 04/28/25 - CITY OF FERNANDINA BEACH	
CLIENT: CHRISTWALK CHURCH	PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
DESIGNER: G. WADZINSKI	QUALITY CONTROL: T. HASTAY, P.E.
SHEET TITLE: HORIZONTAL CONTROL AND SITE PLAN	
PROJECT NUMBER: 24-0244	
TECHNICAL: Travis J. Hastay State of Florida, Professional Engineer, License No. 84295 This item has been electronically signed and sealed by Travis J. Hastay, PE on 04/28/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	
FL PE No. 84295 SHEET NO.: C1.10	

Test: cdem Plot Date: Apr 28, 2025 1:52pm Filename: N:\2024\24-0244\Department\02_Engineering\02_DWG\Production\Fla\24-0244_02.dwg

A
B
C
D



STORMWATER STRUCTURE TABLE				
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.
S-1	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	9.85 N	15"
S-2	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	9.60 S	15"
S-3	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	8.85 E	15"
S-4	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	8.65 W	15"



11801 Research Drive
Alicia, Florida 32615
(352) 331-1976
www.chw-inc.com

FLORIDA
CA-5075

CHW

AN INVIS COMPANY

SCALE: 1"=20'

VERIFY SCALE
BASE IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
ORIGINAL DRAWING, ALL
SCALES ACCORDINGLY.

SUBMITTALS: 12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY
04/28/25 - CITY OF FERNANDINA BEACH

CLIENT: CHRISTWALK CHURCH

PROJECT: CHRISTWALK CHURCH
FERNANDINA BEACH

DESIGNER: G. WADZINSKI

DESIGNER: C. MENHNETT, E.I.

QUALITY CONTROL: T. HASTAY, P.E.

PROJECT NUMBER: 24-0244

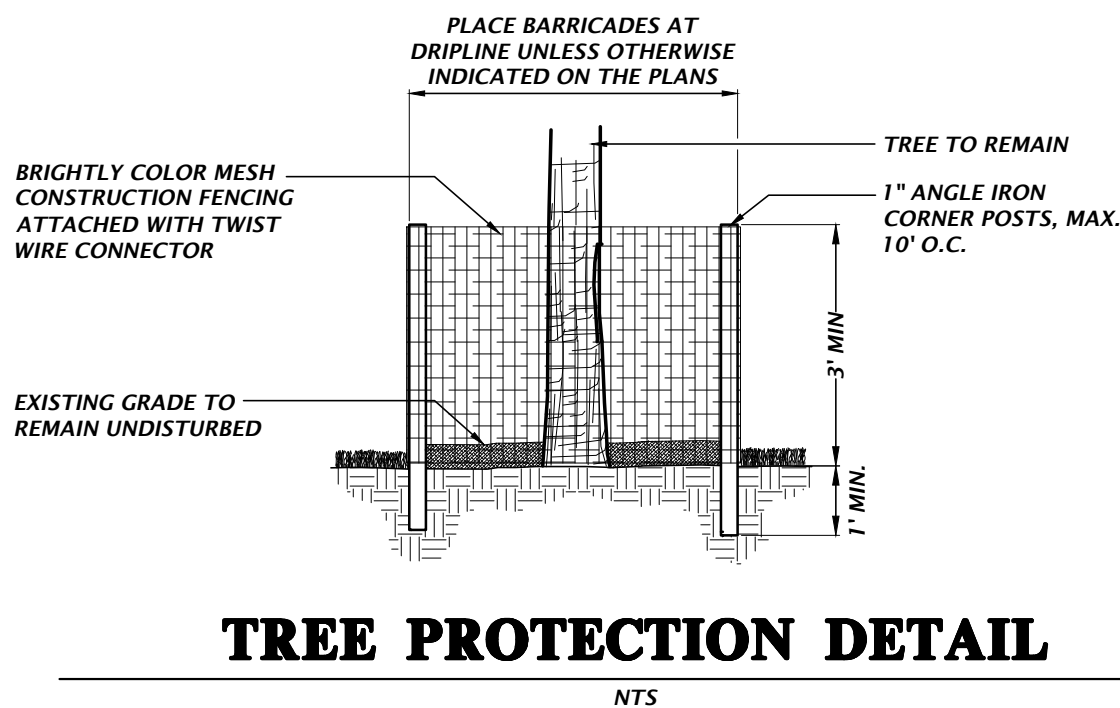
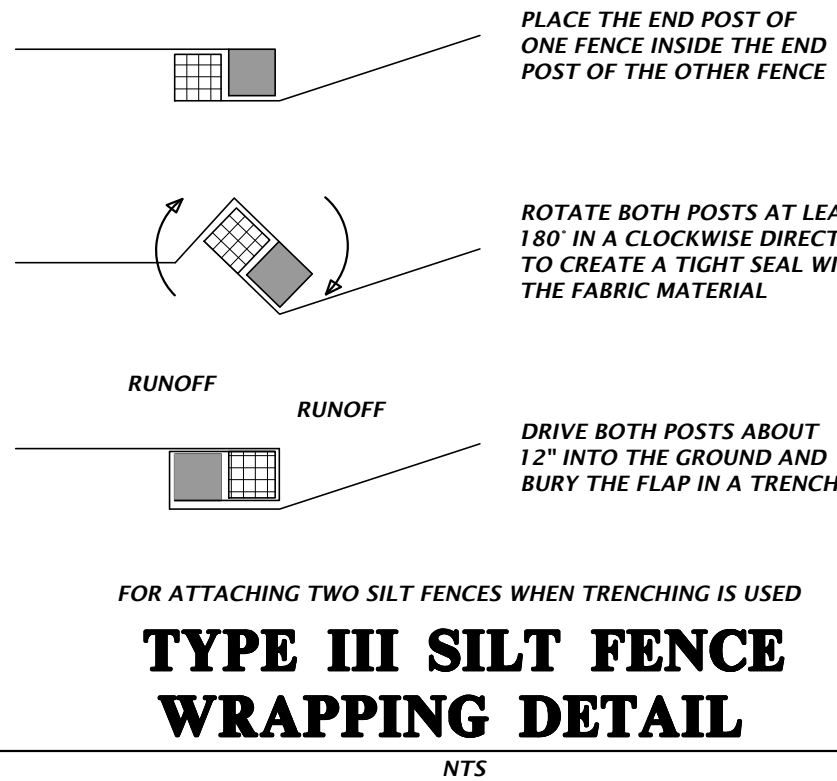
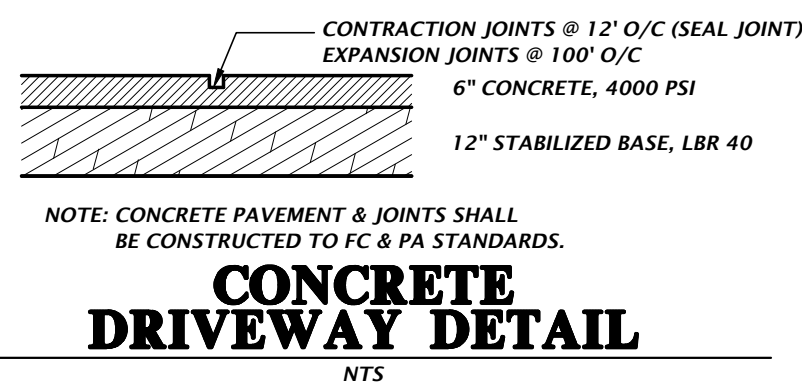
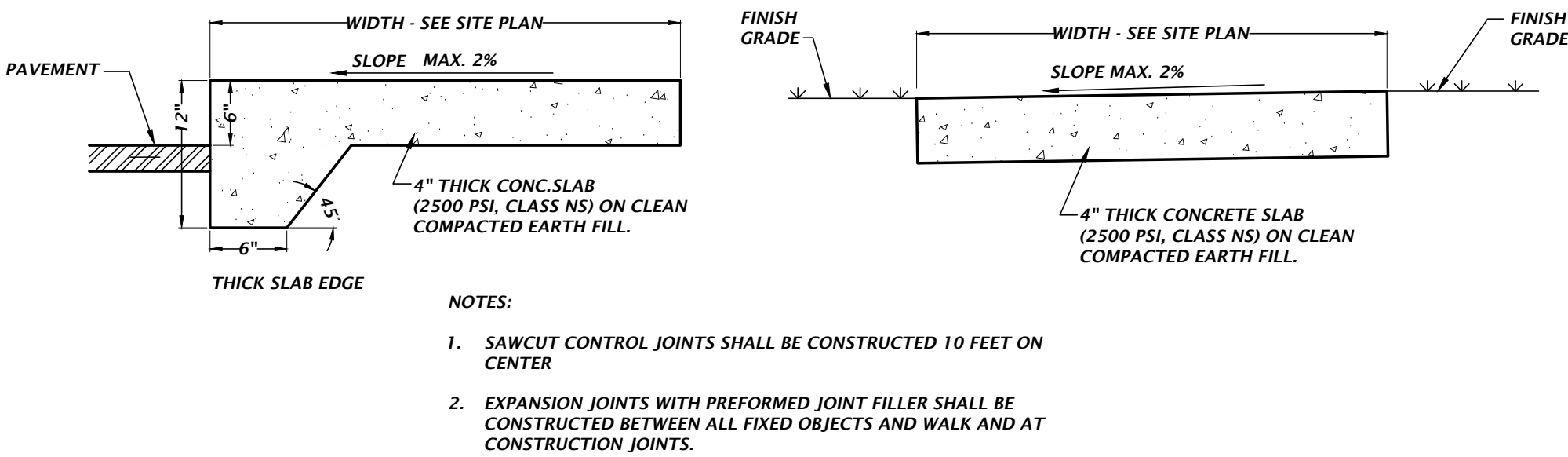
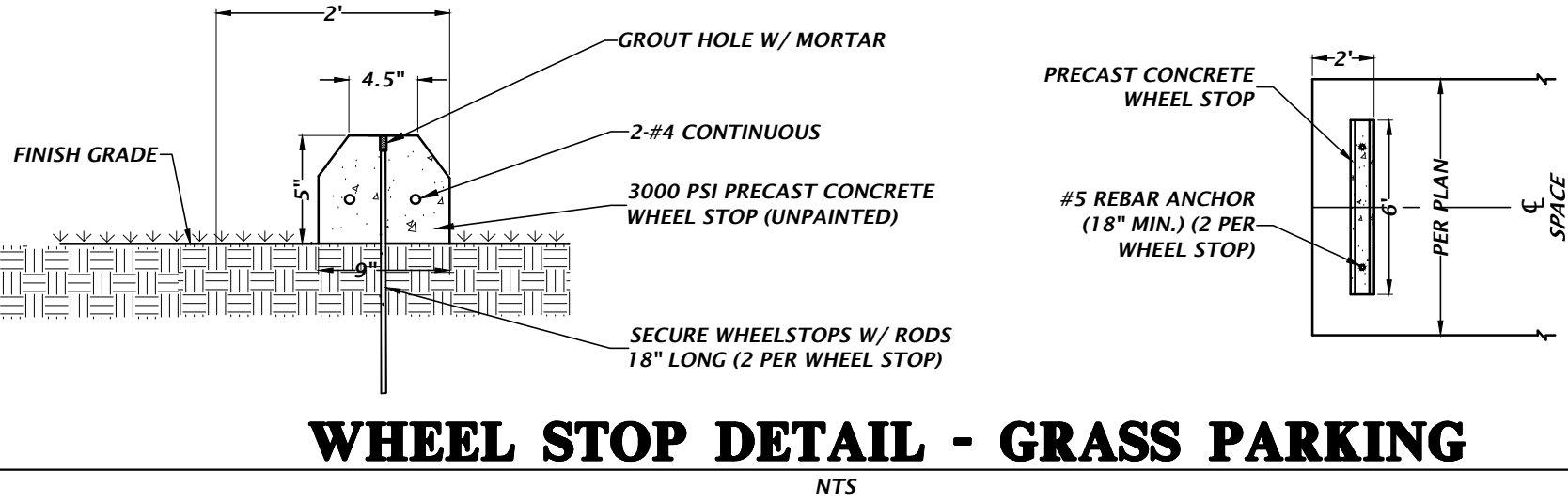
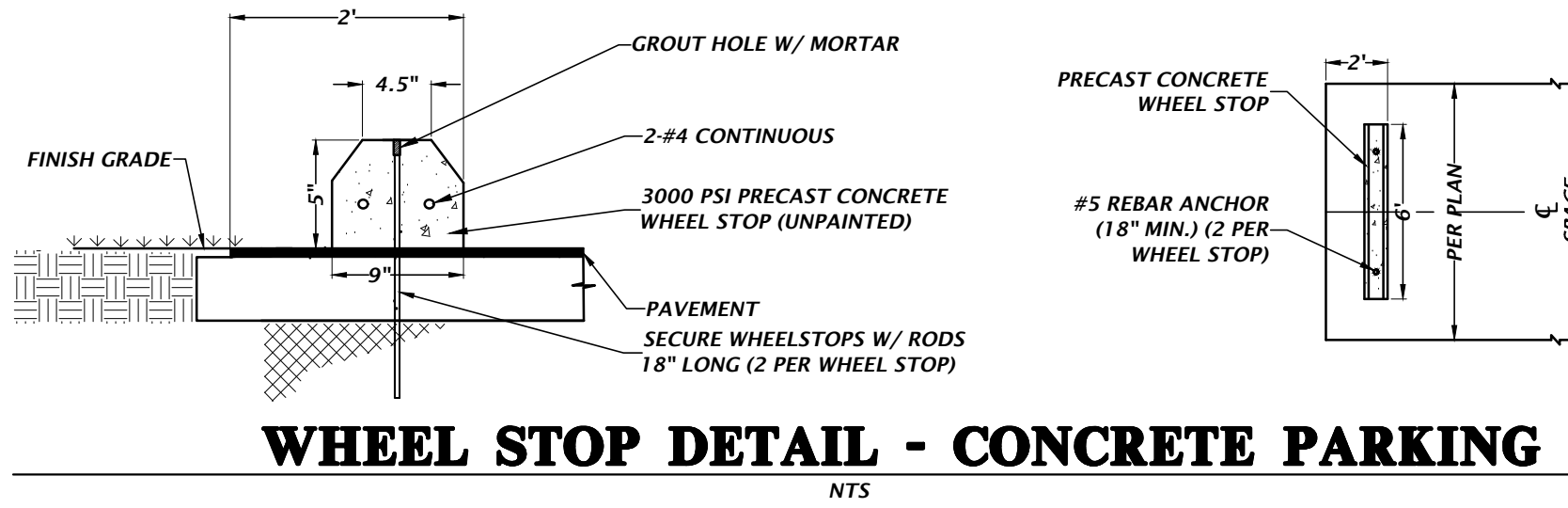
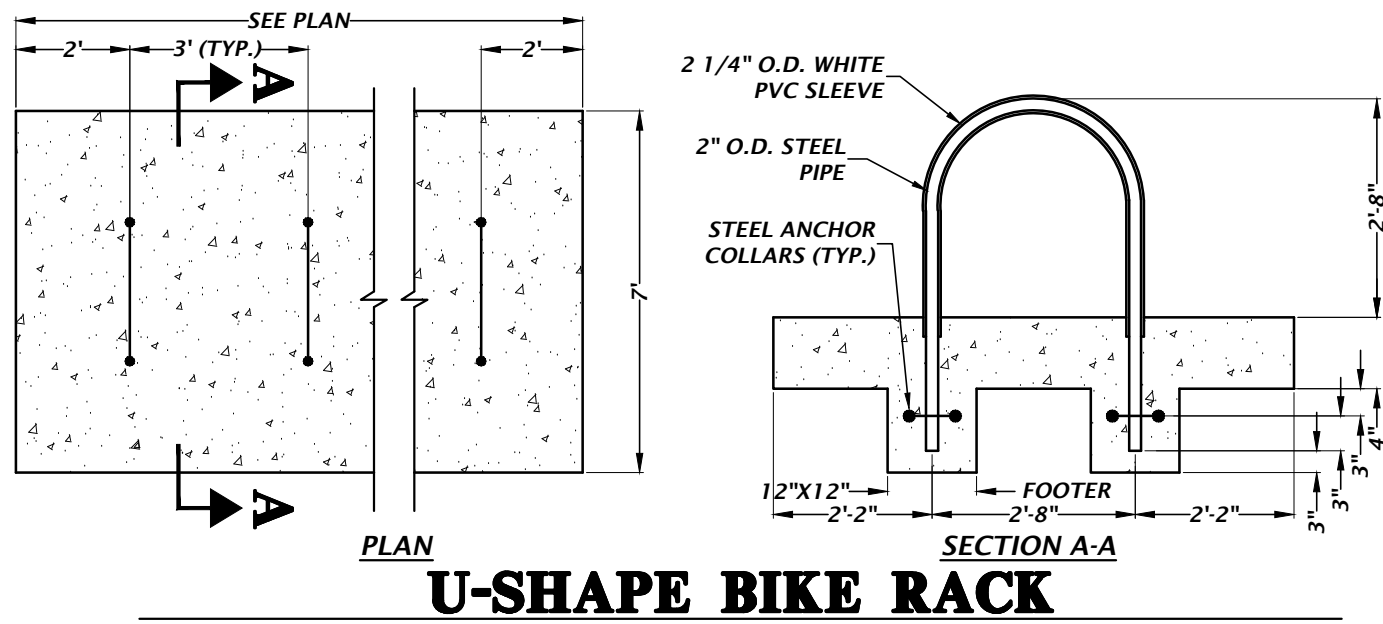
SHEET TITLE: GRADING AND DRAINAGE PLAN

TECHNICAL: TRAVIS J. HASTAY
State of Florida, Professional
Engineer, License No. 84295

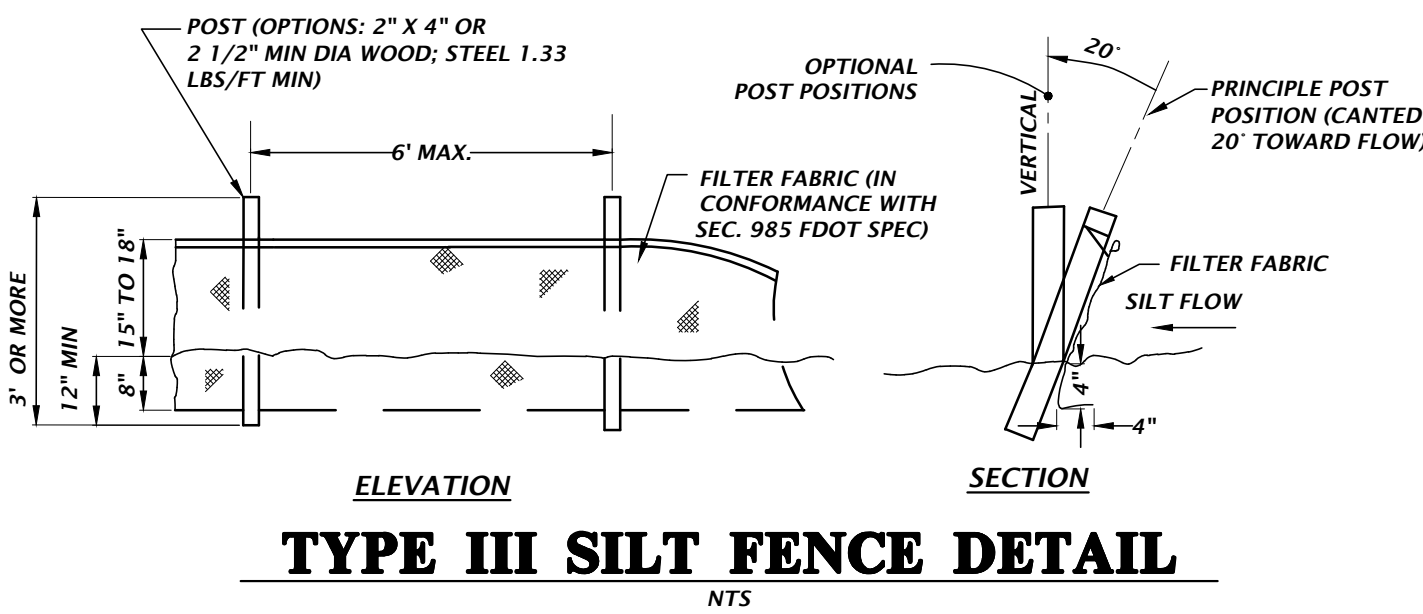
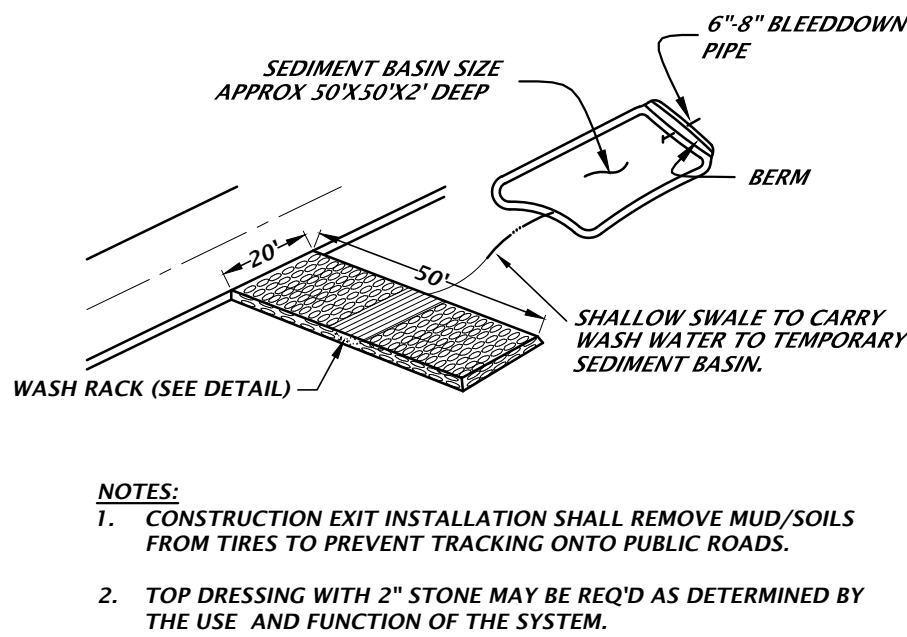
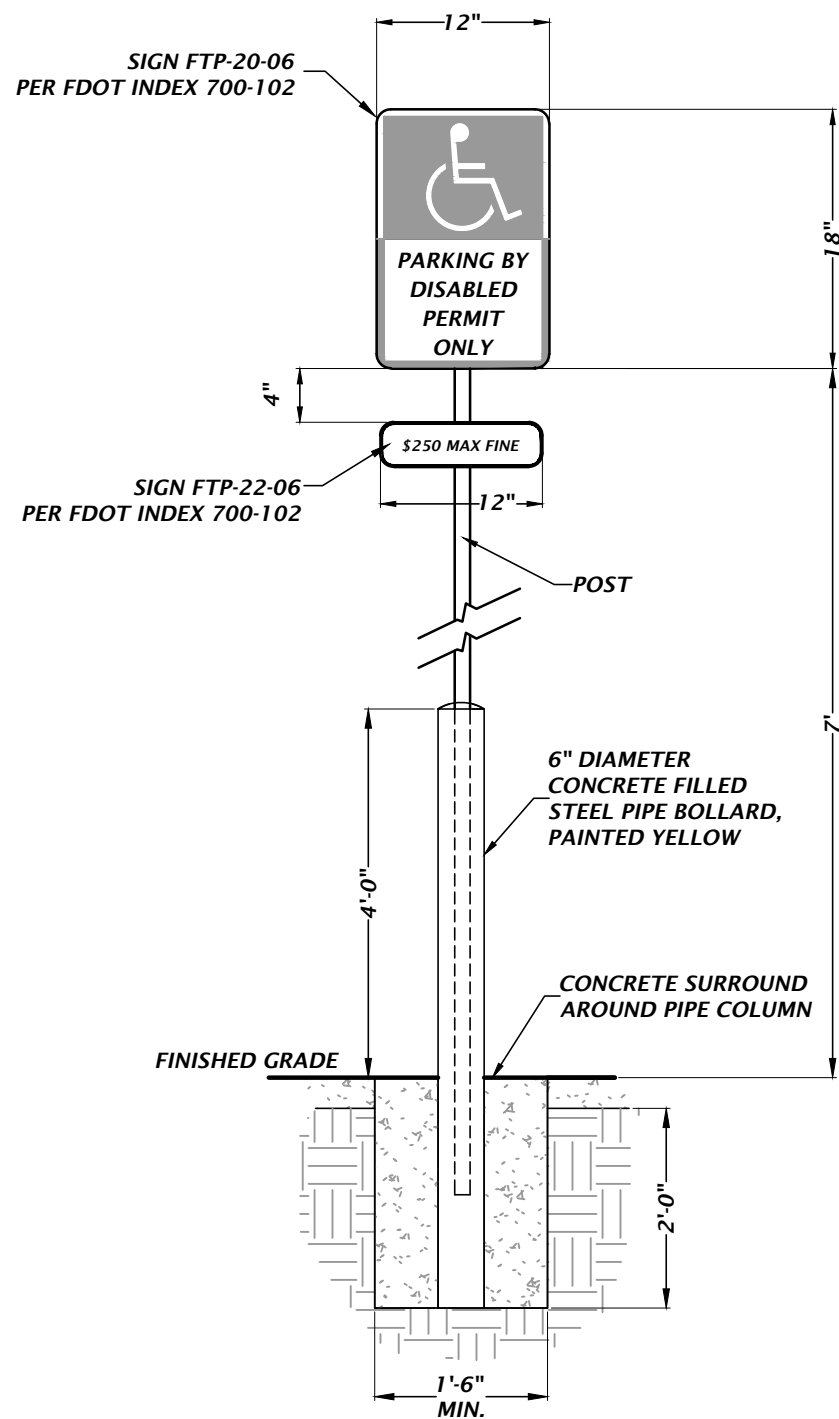
This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/28/2025 using a
Digital Signature.
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.

FL PE No. 84295

SHEET NO. C2.10



- TREE PROTECTION NOTES**
- 1) PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED WITHIN 50 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS.
 - 2) PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES OR STORED MATERIALS.
 - 3) NO TRENCHING ALLOWED WITHIN THE PROTECTIVE BARRIER ZONE. HAND DIG TO INSTALL UTILITY IF APPROVED BY COUNTY MANAGER OR DESIGNEE. WHERE ROOTS GREATER THAN ONE INCH IN DIAMETER ARE DAMAGED OR EXPOSED, THEY SHALL BE CUT CLEANLY AND RECOVERED WITH SOIL WITHIN ONE HOUR OF DAMAGE OR EXPOSURE.
 - 4) PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN.
 - 5) LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF 4 INCHES.
 - 6) NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS.
 - 7) THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300 PART V: MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE DEVELOPMENT, AND SITE CONSTRUCTION OR OTHER NATIONALLY RECOGNIZED ARBORICULTURAL STANDARDS SHALL BE USED AS GUIDELINES FOR TREE PROTECTION, PLANTING, PRUNING AND CARE DURING DEVELOPMENT AND CONSTRUCTION.



ACCESSIBLE PARKING SIGN DETAIL

TEMPORARY CONSTRUCTION EXIT WITH WASH RACK

TYPE III SILT FENCE DETAIL

11801 Research Drive
Alhambra, Florida 32615
(352) 351-1976
www.dhw-inc.com

CHW
AN INVIS COMPANY

SCALE: N/A
VERIFY SCALE
BAR IS ONE INCH ON
DRAWING
IF NOT ONE INCH ON
DRAWING, VERIFY
SIZES ACCORDINGLY

CONSTRUCTION AND REVISIONS

SUBMITTALS
12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND
04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY
04/28/25 - CITY OF FERNANDINA BEACH

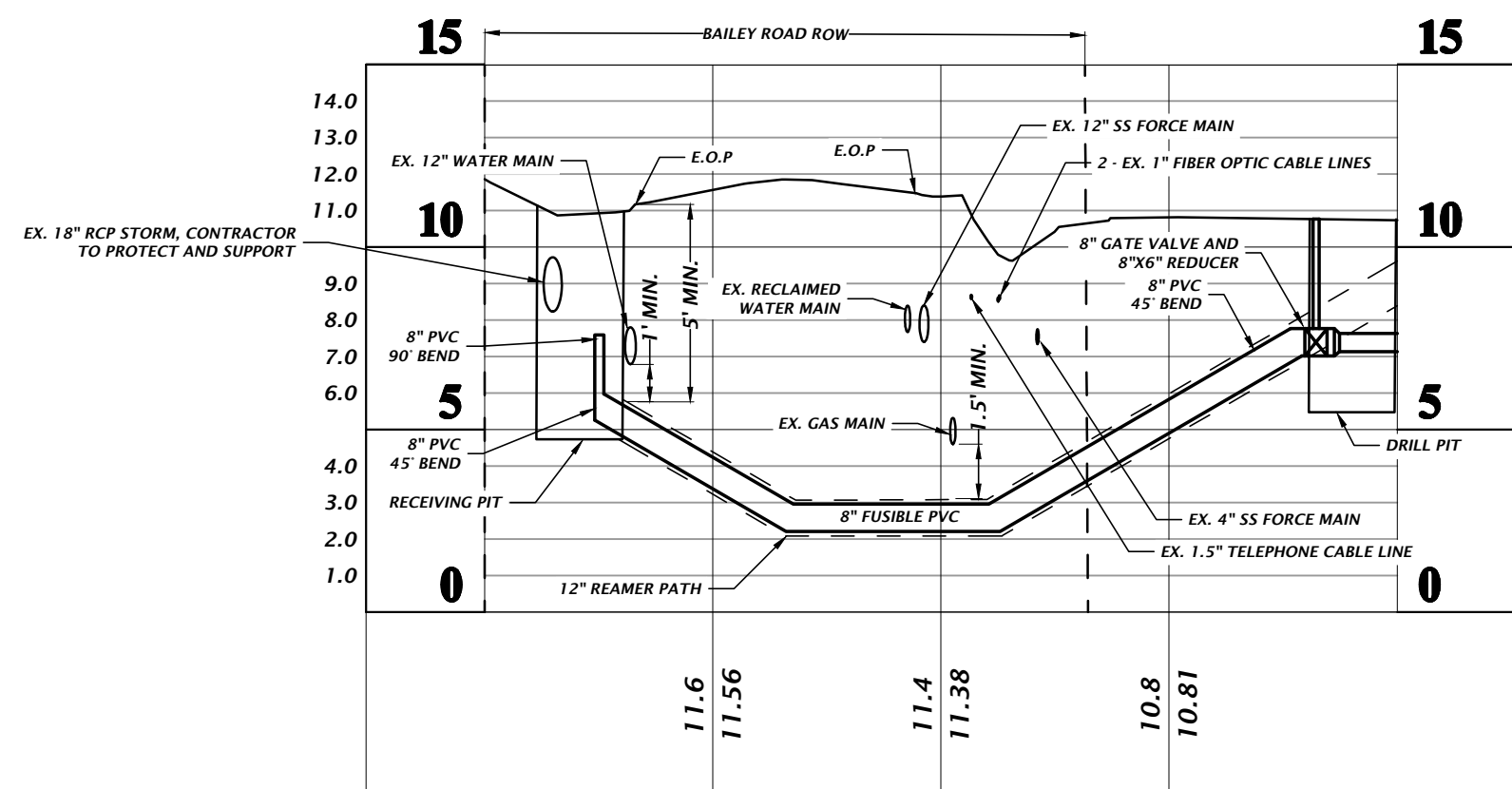
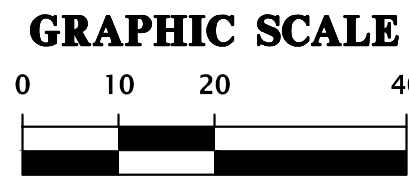
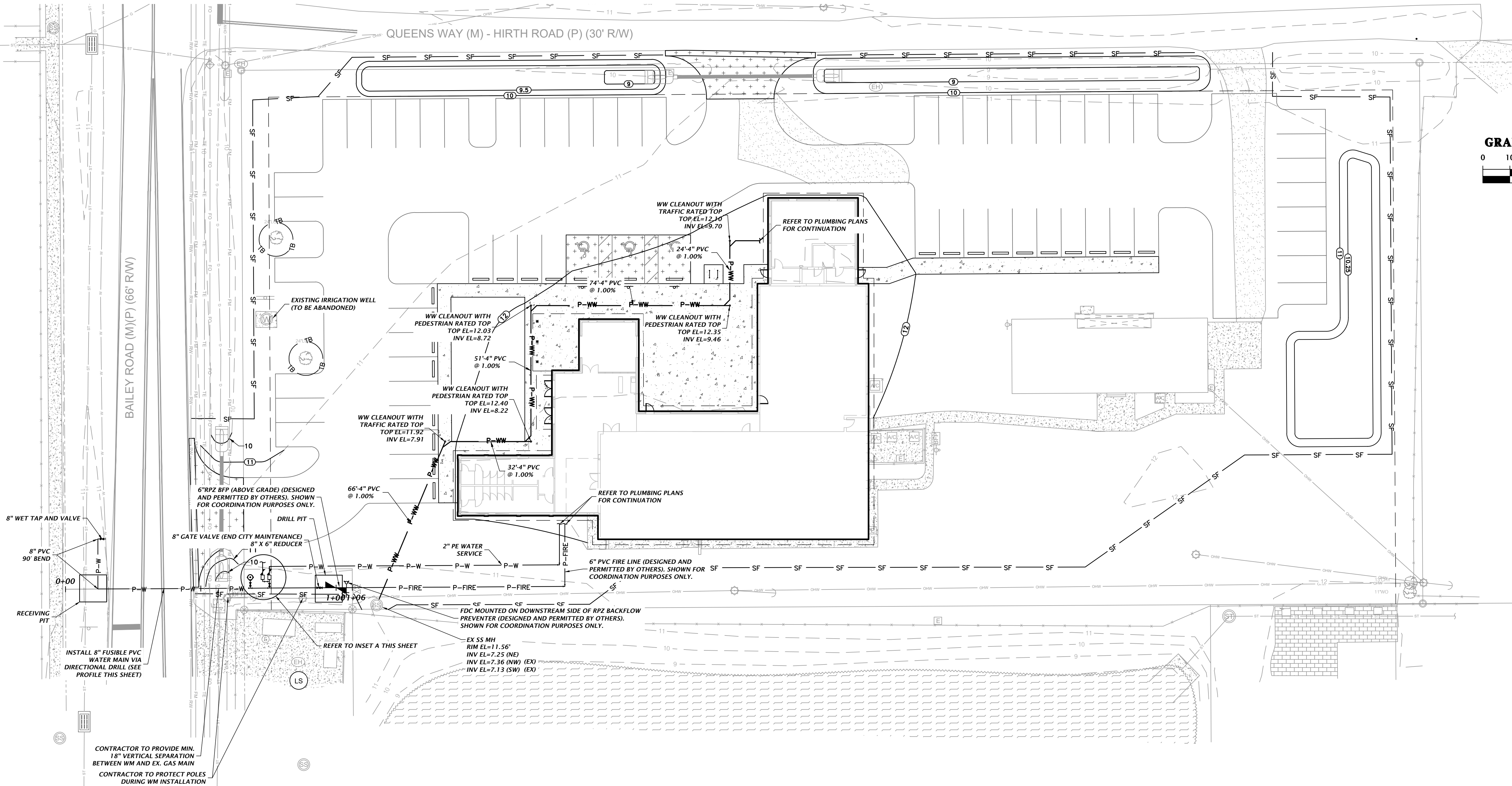
CLIENT
CHRISTWALK CHURCH
PROJECT
CHRISTWALK CHURCH
FERNANDINA BEACH
SHEET TITLE
CONSTRUCTION DETAILS

TECHNICIAN
G. WADZINSKI
DESIGNER
C. MEHRETT, E.I.
QUALITY CONTROL
T. HASTAY, P.E.
PROJECT NUMBER
24-0244

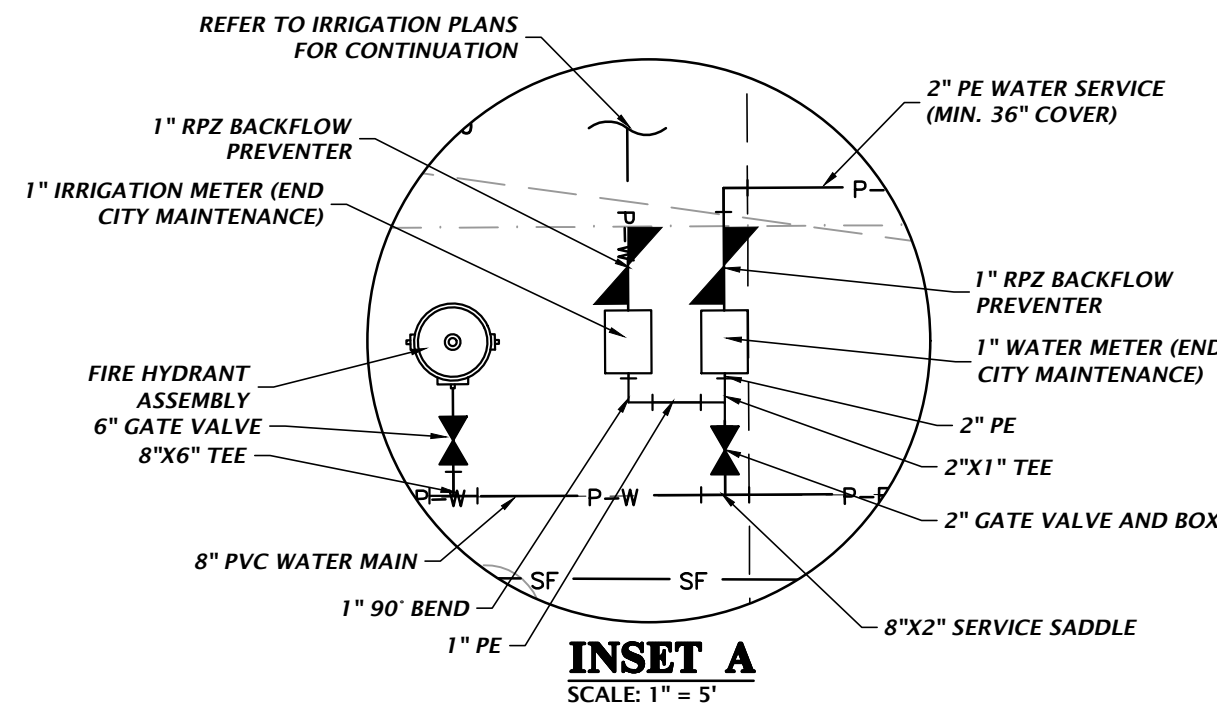
Travis J. Hastay
State of Florida, Professional
Engineer, License No. 84295
This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/28/2025 using a
Digital Signature.
Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.

FL PE No. 84295
SHEET NO.
C2.30

Test: cdem Plot Date: Apr 28, 2025 1:56pm Filename: N:\2024\24-0244\Department\02_Engineering\02_DWG\Production\Fla\24-0244_U7.dwg



DIRECTIONAL DRILL PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



11801 Research Drive Aventura, Florida 33165 (305) 351-1976 www.chw-inc.com est. 1988 FLORIDA CA-5075		AN CHW COMPANY	
SCALE: 1"=20'		VERIFY SCALE BAR IS ONE INCH ON THIS SHEET IF NOT ONE INCH ON OTHER SHEETS, ADJUST SCALES ACCORDINGLY.	
SUBMITTALS			
12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND SIRMID 04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY 04/28/25 - CITY OF FERNANDINA BEACH			
CLIENT:		PROJECT:	
CHRISTWALK CHURCH		CHRISTWALK CHURCH FERNANDINA BEACH	
TECHNICIAN:		SHEET TITLE:	
G. WADZINSKI		UTILITY PLAN	
DESIGNER:		PROJECT NUMBER:	
C. MEHREZ, E.I.		24-0244	
QUALITY CONTROL:			
T. HASTAY, P.E.			
TRAVIS J. HASTAY			
[Travis J. Hastay] State of Florida, Professional Engineer, License No. 84295 This item has been electronically signed and sealed by Travis J. Hastay, PE on 04/28/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.			
FL PE No. 84295			
SHEET NO.		C3.10	

GENERAL NOTES & SPECIFICATIONS FOR WATER MAIN INSTALLATIONS

1. All materials and construction under this project shall be in strict accordance with the requirements of the City of Fernandina Beach Utilities Department (FBU) and/or Nassau County Public Works Department (NCPWD) and/or the Florida Department of Transportation (FDOT) and shall conform to the standards and specifications available and on file with the department. As a minimum requirement, the standards of the AWWA shall apply.

2. Minimum cover over water mains shall be 3'-0" unless specific written exception is issued or required by an authorized representative of FBU.

3. Detector tape shall be installed 18" above the centerline of water mains and services.

4. All water main line valves shall be installed complete with 10" riser pipes and No. 3 valve boxes. Fire hydrants and service valves shall be installed complete with 6" riser pipes and No. 2 valve boxes.

5. All water meters up to 2" will be installed by department personnel providing the appropriate charges have been pre-paid. Provision of service pipes, backflow preventers, valves and meter or pits will be in accordance with construction plans and specifications approved by FBU.

6. Fire hydrant requirements (number and location) shall be as required by the Fire Department or the appropriate fire agency with installations in accordance with FBU standards.

7. Contractor MUST call the FBU Inspection Division and all other applicable permitting agencies to arrange for a Pre-Construction Meeting at least 72 hours prior to proposed start of construction.

8. FBU personnel will inspect all facilities approved by the Engineering Department. All other requirements of the permitting agency shall be in accordance with their standards and requirements.

9. Work performed under this project will not be considered as complete until final acceptance of the system by the department and until the following documents are received and approved by FBU:

- Easements, if required (whether by deed or plat suitably recorded)
- Contractor's Waiver and Release of Lien
- Absolute Bill of Sale
- Contractor's Letter of Warranty (i.e. Letter Agreement)
- Contractor's Maintenance Bond (for 1 year)
- As-built 3 mil mylar 24" x 36" showing specific locations, depths, etc. of all water facilities as located by a licensed surveyor, along with two (2) prints of the "As-Built" which have been signed and sealed by a registered surveyor or Engineer of record and endorsed by the Contractor in accordance with FBU standards.

10. All new connections from existing FBU mains to be inspected by FBU forces prior to backfill.

11. The Contractor shall be responsible for verifying all locations, dimensions, elevations and the locations of all underground structures and utilities prior to the start of construction. The locations shown on the plans are not guaranteed accurate or correct by the known utility companies.

12. Thrust blocks shall be provided at all bends, tees, and plugs in accordance with FBU standard details.

13. All new fittings at reaction points shall be fitted with megadug retainer glands or approved equal, meeting FBU requirements. All valves are to be restrained with retainer glands.

14. Pipe installation, cleaning, flushing, testing, and disinfecting, as per FBU and State of Florida Department of Health and Rehabilitative Services Standards for the installation of water mains by customer donation projects.

15. Preliminary cleaning of all water mains 12" and larger to be accomplished by use of a poly-pig per FBU standards.

16. The Contractor is responsible for the cost of inspections for any construction activities occurring outside normal working hours (8:00 a.m. to 5:00 p.m.) Saturdays and Sundays and holidays excluded and arrangements for inspections outside normal working hours must be made a minimum of 48 hours in advance of the construction activity.

17. All trenches to be over-excavated a minimum of 6" to provide for installation of rock bedding in accordance with FBU Standards.

18. Surface restoration, pavement replacement, sidewalk replacement, trench backfilling and compaction shall comply with the applicable current FBU, NCPWD and FDOT Standards.

19. All gate valves to be resilient seat per AWWA-C509.

20. Where field conditions require, as determined by FBU, the water main shall be polyethylene encased in accordance with AWWA-C105.

21. The Contractor shall be responsible for providing FBU with IHS Letter of Clearance to Place a Public Drinking Water Facility Into Service. The Engineer of record shall provide FBU with a signed and sealed pressure test report certifying pressure test results.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

POTABLE WATER MAINS
GENERAL NOTES

Date

Revisions

Appr. by

Date: July 2000

Scale: N.T.S.

Dwg: F101b

Fig: 300

GENERAL NOTES & SPECIFICATIONS FOR WATER MAIN INSTALLATIONS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTES

1. A horizontal distance of 10 feet shall be maintained between water and sewer mains. When a 10 foot horizontal distance criteria cannot be met due to an existing underground facility conflict, the sewer shall be constructed of ductile iron pipe with mechanical joints.

2. A vertical distance of at least 18 inches shall be maintained between any water and sewer mains. The sewer shall be ductile iron single 20 foot length centered on the crossing if the minimum vertical distance is less than 18 inches or the sewer is installed above the water main regardless of separation).

3. In highly congested areas, where either water or sewer facilities are existing and the separation requirements cannot be met, special consideration may be given subject to a complete evaluation of existing and proposed conditions.

4. The contractor shall verify nature, depth, character of existing underground utilities prior to start of construction.

NOTE: WHEN WATER CROSSES SEWER

1. Force mains must have an 18-inch vertical separation from water lines. No exceptions.

2. Sewer lines, including laterals, must have 18 inch vertical clearance between water mains and/or 6 inches minimum clearance if sewer line is DIP and has no joints within 10 feet of intersection (i.e. one 20 ft. joint DIP centered on intersection). Storm drainage lines are exempt if DIP water main separation of 18" is maintained and both pipes have no joints within 10 feet of intersection.

TRENCH PROTECTION

Trench excavation protection shall be accomplished as required by the provisions of Part 1926, Subpart P, Excavations, Trenching and Shoring of the Occupational Safety and Health Administrations Standards and Interpretations.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

POTABLE WATER MAINS
GENERAL NOTES

Date

Revisions

Appr. by

Date: July 2000

Scale: N.T.S.

Dwg: F101c

Fig: 300A

3'x3'x6" THICK CONCRETE SLAB OR
SIDEWALK FLAG. (SEE NOTE 1)

(4) TRAFFIC POSTS
SEE NOTES 1 AND 2

SEE NOTE 3

SEE NOTE 4

VARIES

GATE VALVE

THRUST BLOCK/
RESTRAINED

MECH JOINT
TEE

HYDRANT OPERATING
NUT

HOSE NOZZLE

AS REQ'D.

PUMPER NOZZLE
FACING ACCESS
R/W

CONC. VALVE
BOX PAD

CAST IRON
VALVE BOX

M J HYDRANT
ANCHORING TEE
(RESTRAINED)

COMPACTED
BACKFILL

6" PIPE (MIN)
(SEE NOTE 5)

UNDISTURBED
SOIL

6" BEDDING ROCK

M J ANCHORING COUPLING
(SEE NOTE 3)

12" MIN
RESTRAINED JOINTS

6" RESILIENT SEAT GATE
VALVE (SEE FIG 115)

NOTES:

1. HYDRANT GUARDS TO BE 4" DIAMETER GALVANIZED STEEL PIPE FILLED WITH CONCRETE AND TO BE PLACED AT LOCATION AS REQUESTED BY THE CITY.

2. OMIT REAR GUARDS IN LOCATION WHERE SIDEWALKS EXIST.

3. USE MECHANICAL JOINT RETAINER GLAND CLOW MODEL NO. F105B, MEGA-LUGS OR APPROVED EQUAL.

4. HYDRANT SETBACK SHALL BE SET TO A DISTANCE OF 7-FT MAXIMUM AND 4-FT MINIMUM FROM THE EDGE OF PAVEMENT OR CONFORM TO D.O.T. REQUIREMENTS WHERE APPLICABLE.

5. SERVICE LINES FOR FIRE HYDRANTS TO BE SIZED TO ALLOW A MINIMUM OF 20 PSI RESIDUAL PRESSURE AT THE HYDRANT UNDER FIRE FLOW CONDITIONS.

6. TWO BLUE REFLECTIVE PAVEMENT MARKERS FOR IDENTIFICATION OF THE HYDRANT AND ITS VALVE LOCATION SHALL BE INSTALLED ON THE CENTER OF THE ADJACENT PAVED DRIVE LANE TO THE HYDRANT; MARKERS SHALL BE SPACED 1-FT APART, PERPENDICULAR TO THE ROAD CENTERLINE.

7. NO GUARDPOST ALLOWED IN DOT RIGHTS-OF-WAY.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

FIRE HYDRANT ASSEMBLY DETAIL

Date

Revisions

Appr. by

Date: Nov. 2000

Scale: N.T.S.

Dwg: F103

Fig: 335

PRECAST MANHOLE
WALL

GROUT

STAINLESS STEEL
BAND

PVC OR DIP

STAINLESS STEEL
PIPE CLAMP

KOR N SEAL FLEXIBLE BOOT
ADAPTER OR EQUAL

STANDARD PRECAST MANHOLE
PIPE CONNECTION

NOTES:

1. THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.

2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT PIPES WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE BOTTOM.

CITY OF FERNANDINA BEACH
UTILITIES DEPARTMENT

MANHOLE CONNECTION DETAIL
(WITH BUILT-IN RUBBER BOOT)

Date

Revisions

Appr. by

Date: July 2000

Scale: N.T.S.

Dwg: F201

Fig: 410

11801 Research Drive
Alachua, Florida 32615
(352) 351-1976
www.chw-inc.com

CHW
AN INVIS COMPANY

11801 Research Drive
Alachua, Florida 32615
(352) 351-1976
www.chw-inc.com

FLORIDA
CA-5075

N/A

VERIFY SCALE
BASE IS ONE INCH ON
DRAWING EQUALS
1' IF NOT ONE INCH ON
DRAWING, ALL DIMENSIONS
ARE IN FEET UNLESS
OTHERWISE SPECIFIED.

CONSTRUCTION AND REVISIONS

12/20/24 - CITY OF FERNANDINA BEACH, NASSAU COUNTY, AND

04/04/25 - CITY OF FERNANDINA BEACH AND NASSAU COUNTY

04/28/25 - CITY OF FERNANDINA BEACH

CLIENT

CHRISTWALK CHURCH

PROJECT

CHRISTWALK CHURCH
FERNANDINA BEACH

SHEET TITLE

UTILITY DETAILS

TECHNICIAN

G. WADZINSKI

DESIGNER

C. MERRHETT, E.L.

QUALITY CONTROL

T. HASTAY, P.E.

PROJECT NUMBER

24-0244

TRAVIS J. HASTAY

Travis J. Hastay
State of Florida, Professional
Engineer, License No. 84295

This item has been
electronically signed and
sealed by Travis J. Hastay,
PE on 04/28/2025 using a
Digital Signature.

Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.

FL PE No. 84295

SHEET NO.

C3.20



May 14, 2025

Cole Menhennett
CHW, an NV5 Company
11801 Research Dr.
Alachua, FL 32615
cole.menhennett@nv5.com

Sent Via Email to Project Team

Applicant Name:

Project Description: Christwalk Church Building Addition

Location: 2920 Bailey Rd

PIN(s): 00-00-30-044B-0045-0020

TRC Case Number: TRC 2024-0010

Mr. Menhennett,

The City of Fernandina Beach received your request for site plan review on Wednesday, April 30, 2025. A complete application was determined on Thursday May 1, 2025. All submitted documents provided were routed to the Technical Review Committee (TRC). All technical comments have been addressed. The next step is to receive the Local Development Order.

The site plan is scheduled for the formal TRC public meeting on Thursday, May 22, 2025 at 10 a.m. located at City Hall Commission Chambers 204 Ash Street.

If you have any questions, please contact us at TRCinfo@fbfl.city or 904-310-3480.

Sincerely,

Margaret Pearson On behalf of

Kelly N. Gibson, AICP
TRC Coordinator

REVIEW COMMENTS:

PLANNING



☐ The Planning Department has reviewed the submittal and noted the following comments:

Arborist assessment has been submitted for removal of Loblolly Pine dn 5/1/25

Trees meet definition of shade trees and 8 understory trees have been included to be planted. All requirements met. Dn 5/1/25

OR

☒ All previous comments have been addressed, and the Department of Planning & Conservation approves issuance of a local development order

Name of Reviewer: Planning Staff

Today's Date: Wednesday, May 14, 2025

BUILDING

☐ The Building Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed, and the Building Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

UTILITIES, STORMWATER, & STREETS

☐ The Public Works Departments has reviewed the submittal and noted the following comments:

OR

☒ All previous comments have been addressed, and the Public Works Department approves issuance of a local development order.

Name of Reviewer: Victoria Guadagnino

Today's Date: Thursday, May 1, 2025



CODE ENFORCEMENT

☐ The Code Enforcement Department has reviewed the submittal and noted the following comments:

OR

☐ All previous comments have been addressed and the Code Enforcement Department approves issuance of a local development order.

Name of Reviewer: First Last

Today's Date: Select Date

FIRE

☐ The Fire Department has reviewed the submittal and noted the following comments:

•

OR

☒ All previous comments have been addressed and the Fire Department approves issuance of a local development order.

Name of Reviewer: Jason Higginbotham

Today's Date: Monday, May 12, 2025

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
TREES					
LT	8	LAGERSTROEMIA INDICA 'TUSCARORA'	TUSCARORA CRAPE MYRTLE	30 GAL, 10' HT, 4' SPR, 3-5 CANES	
MGB	7	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	BRACKEN'S BROWN BEAUTY MAGNOLIA	30 GAL, 10' HT, 4' SPR, 2.5" CAL	
PE	14	PINUS ELLIOTTII	SLASH PINE	30 GAL, 10' HT, 4' SPR, 2.5" CAL	
QV	6	QUERCUS VIRGINIANA	SEEDLING SOUTHERN LIVE OAK	30 GAL, 10' HT, 4' SPR, 2.5" CAL	
TD	14	TAXODIUM DISTICHUM	BALD CYPRESS	30 GAL, 10' HT, 4' SPR, 2.5" CAL	
UA	5	ULMUS ALATA	WINGED ELM	30 GAL, 10' HT, 4' SPR, 2.5" CAL	
SHRUBS					
PML	18	PODOCARPUS MACROPHYLLUS	PODOCARPUS	7 GAL, 36" HT, 18" SPR	
RS	34	RHODODENDRON SIMSII 'FASHION'	FASHION AZALEA	3 GAL, 18" HT X 15" SPR	
VO	127	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	3 GAL., 24" HT. X 12" SPR.	
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
GROUND COVERS					
LEM	109	LIRIOPE MUSCARI 'EMERALD GODDESS'	EMERALD GODDESS LIRIOPE	1 GAL., FULL	18" o.c.
MU	251	MUHLENBERGIA CAPILLARIS	PINK MUHLY	1 GAL., FULL	24" o.c.
SB	79	SPARTINA BAKERI	SAND CORD GRASS	1 GAL., FULL	42" o.c.
SOD/SEED					
SOD		PASPALUM NOTATUM 'ARGENTINE'	BAHIA GRASS	WEED FREE AND SAND GROWN SOD	

GENERAL SITE AND DEVELOPMENT INFORMATION

SITE AREA: 86,930 SF
SITE TREES REQUIRED: 56 SHADE TREES
SITE TREES PROVIDED: 2 EXISTING + 54 TREES PROPOSED*
*DUE TO OVERHEAD UTILITIES, 8 TREES ARE UNDERSTORY TREES

BUFFER REQUIREMENTS FOR PARKING PERIMETER

REQUIREMENT	LENGTH AND WIDTH	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
NORTHERN BUFFER	326 LF 10' WIDE	16 SHADE TREES REQUIRED	16 SHADE TREES PROPOSED
NORTHERN BUFFER	150 LF 10' WIDE	8 SHADE TREES REQUIRED	2 EXISTING TREES & 6 SHADE TREES PROPOSED

GENERAL NOTES

ALL ASPHALT, LIMESTONE, AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM PLANTING BEDS AND SOD AREAS PRIOR TO LANDSCAPE INSTALLATION. IF ENCOUNTERED DURING CONSTRUCTION OR INSTALLATION, THESE SHALL BE EXCAVATED AND REMOVED FROM THE SITE. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH pH 6.0 - 7.5.

ALL LANDSCAPED AREAS SHALL BE MULCHED WITH 3" THICKNESS OF MULCH. PINE STRAW MULCH SHALL BE USED IN ALL AREAS,

NEW TREES OUTSIDE OF MULCHED LANDSCAPED BEDS WILL BE PROTECTED FROM MOWER AND STRING TRIMMER DAMAGE WITH 10" OF PLASTIC DRAIN TUBING.

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES SHALL NOT BE TOPPED OR PRUNED. TREES WILL BE STAKED AS NEEDED. GUYLINES WILL BE OF NON-SYNTHETIC BIODEGRADABLE MATERIAL.

INVASIVE EXOTIC PLANT MATERIAL

ALL INVASIVE PLANT SPECIES TO BE REMOVED FROM SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

PLANT MATERIAL

ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY'S 'GRADES AND STANDARDS FOR NURSERY PLANTS', CURRENT EDITION AT THE TIME PLANS ARE ISSUED.

PLANT QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES SHOWN ON THE PLAN.

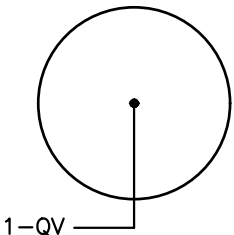
GRASSING

ALL DISTURBED AND UNPAVED AREAS, INCLUDING THE ADJACENT RIGHT OF WAY, TO BE GRASSED WITH SOD FREE OF NOXIOUS WEEDS AND TROPICAL SODA APPLE OR SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

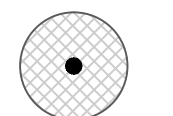
IRRIGATION NOTES

A TEMPORARY OR PERMANENT AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL NEW REQUIRED LANDSCAPING AND WILL BE PROVIDED BY OTHERS.

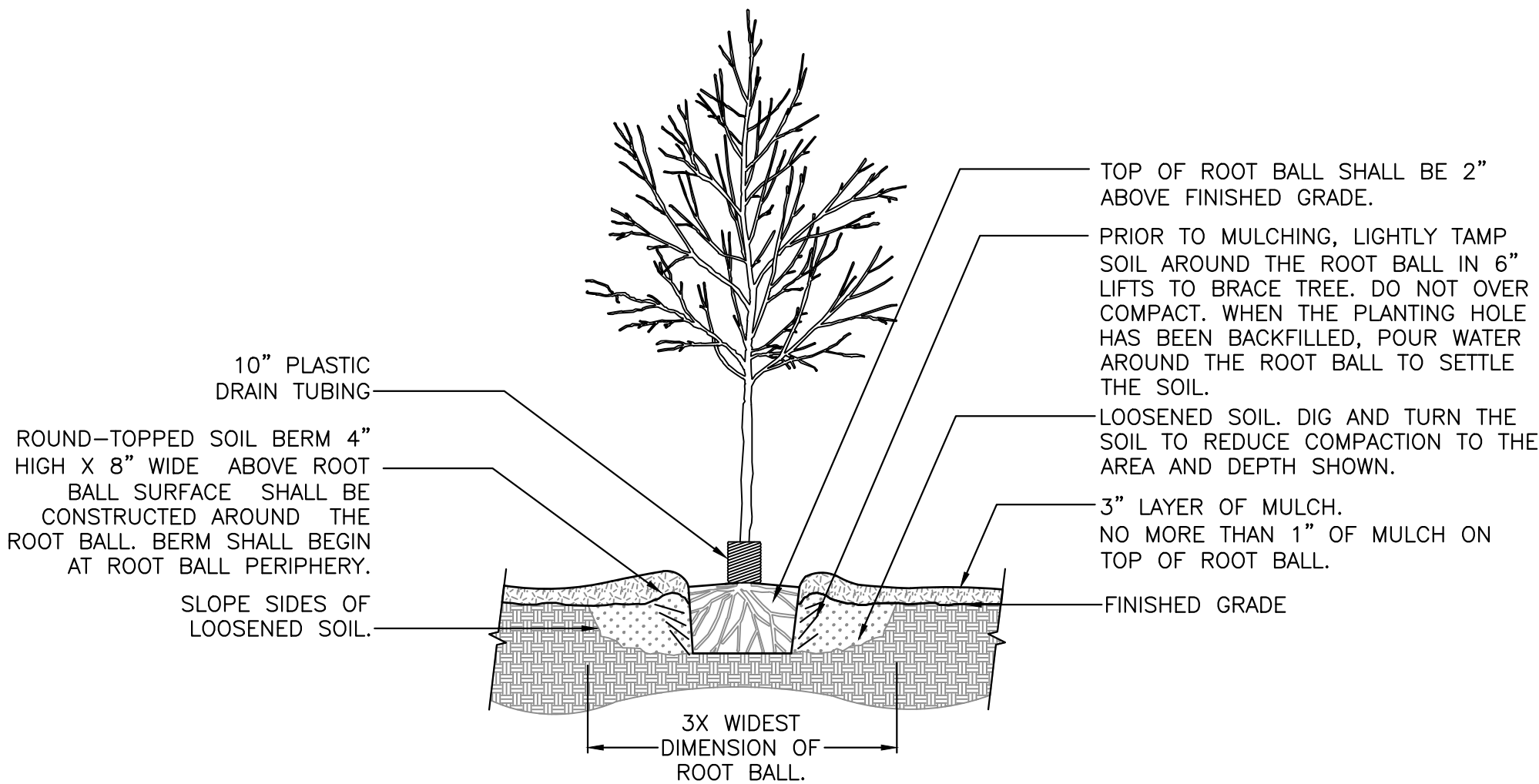
LEGEND



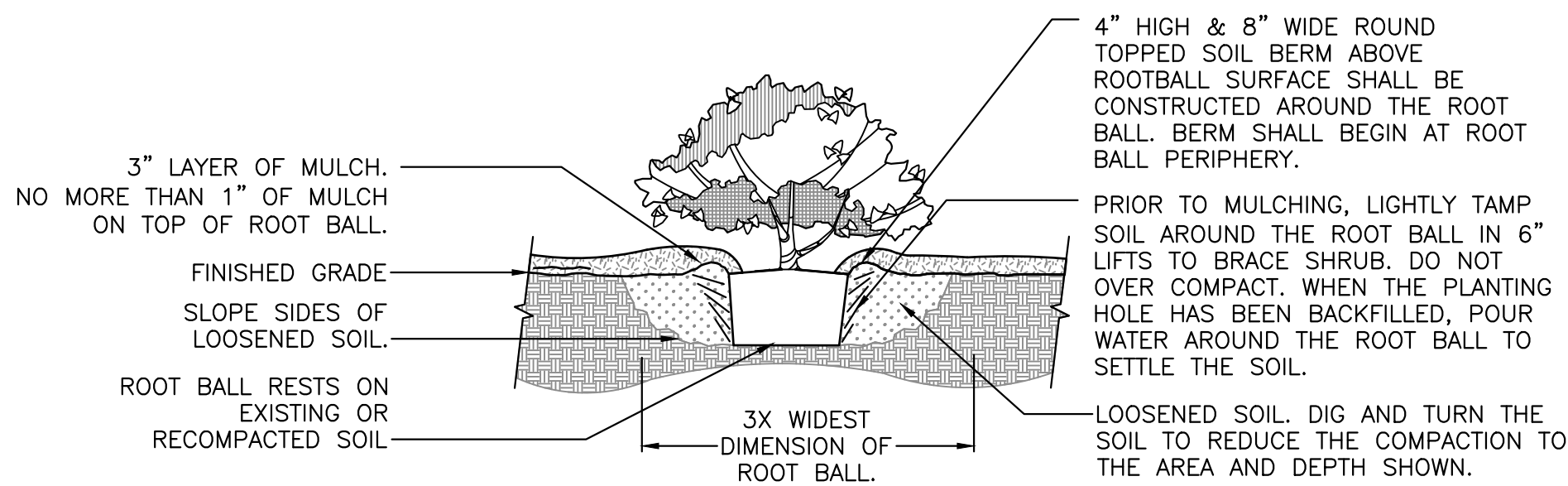
NEW TREES TO BE ADDED



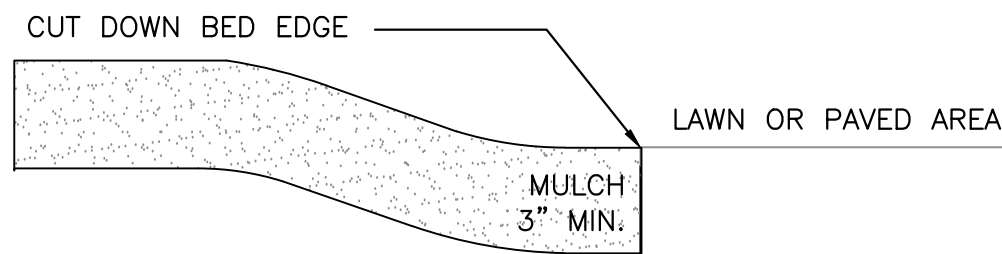
EXISTING TREES TO REMAIN



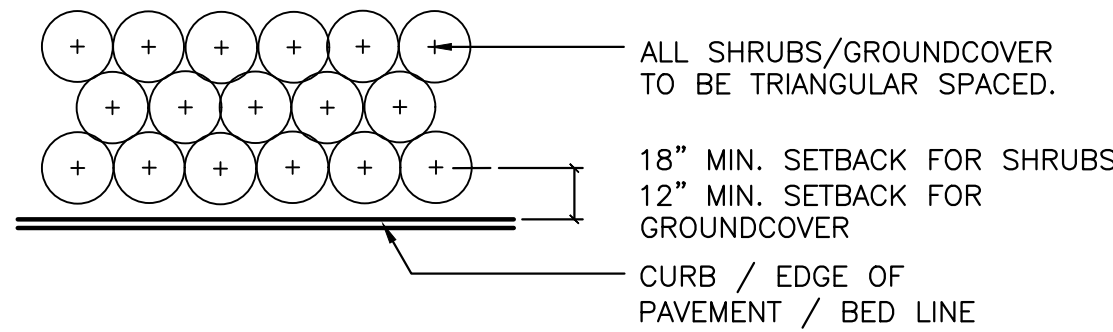
1 TREE PLANTING DETAIL
SCALE: N.T.S.



2 SHRUB PLANTING DETAIL
SCALE: N.T.S.



3 MULCH DETAIL
SCALE: N.T.S.



NOTE: THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

4 SHRUB PLANTING DETAIL
SCALE: N.T.S.



KNOW WHAT'S
BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast, it's free, it's the law.
Call 811 two business days
before digging

11801 Research Drive
Alachua, Florida 32615
(352)331-1976
www.nv5.com
LA6667049

NV5

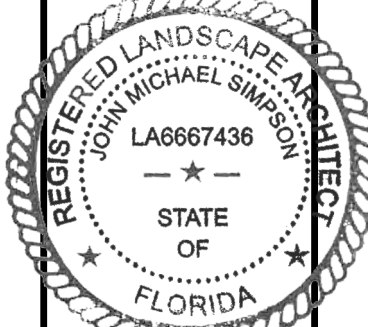
SCALE: N/A
VERIFY SCALE
BASED ON SCALE
ON
ORIGINAL DRAWING
0
DO NOT USE FOR ANY
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION (BID) REVISIONS

SUBMITTALS
12/10/2024 - SUBMITTAL TO FERNANDINA BEACH
04/04/2025 - SUBMITTAL TO FERNANDINA BEACH
04/28/2025 - SUBMITTAL TO FERNANDINA BEACH

CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
SHEET TITLE: LANDSCAPE NOTES & DETAILS

DESIGNER: JMS
QUALITY CONTROL: JMS
PROJECT NUMBER: 24-0244



Digitally signed by John Michael Simmonds
Date: 2025.04.28
10:50:13 -0400

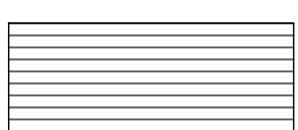
SHEET NO: LS-1

Test: john-michaels For Date: Apr 28, 2025 Filename: N:\2024\24-0244\aportments\03_design\02_LAND\01_permitting\24-0244_Irrigation_Base.dwg

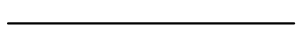
IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS
①	Hunter PROS-12-PRS30-CV 12H	180	30	1.3	12'
②	Hunter PROS-12-PRS30-CV 12Q	90	30	0.67	12'
③	Hunter PROS-12-PRS30-CV 15H	180	30	1.86	15'
④	Hunter PROS-12-PRS30-CV 15Q	90	30	0.97	15'
⑤	Hunter PROS-12-PRS30-CV 15T	120	30	1.3	15'
⑥	Hunter PROS-12-PRS30-CV 10A	Adj	30	≤ 2.02	10'
⑦	Hunter PROS-12-PRS30-CV 12A	Adj	30	≤ 2.52	12'
⑧	Hunter PROS-12-PRS30-CV 15A	Adj	30	≤ 3.71	15'
Ⓜ	Two Hunter PCB 25	360	30	2 x.25	3'

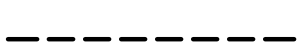
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
Ⓟ	Hunter PROS-12-CV with GPH Irrigation Products GDFN	7

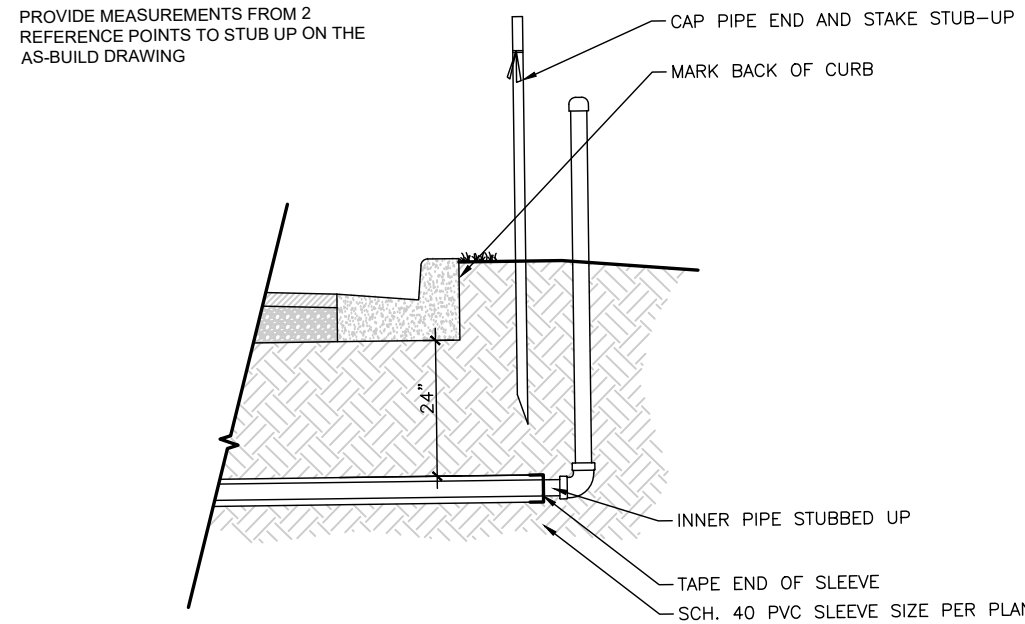
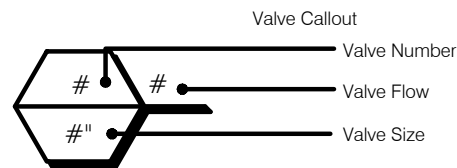
 Area to Receive Dripline
Hunter HDL-10-12
In-Line Pressure Compensating Landscape Dripline with Built-In Check Valve, 1.0GPH emitters at 12.0" O.C. Dripline laterals spaced at 16.0" apart, with emitters offset for triangular pattern. Install dripline on both sides of the planter material.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ in a Jumbo Valve Box
	Hunter ICV in a 12" Valve Box
	Zurn 975XL 1" Reduced Pressure Backflow device
	Hunter PC-700-PL 7 Station Controller
	Hunter MINI-CLIK Rain Sensor
	Water Meter 3/4" (see civil plans)

 Irrigation Lateral Line: PVC Class 160

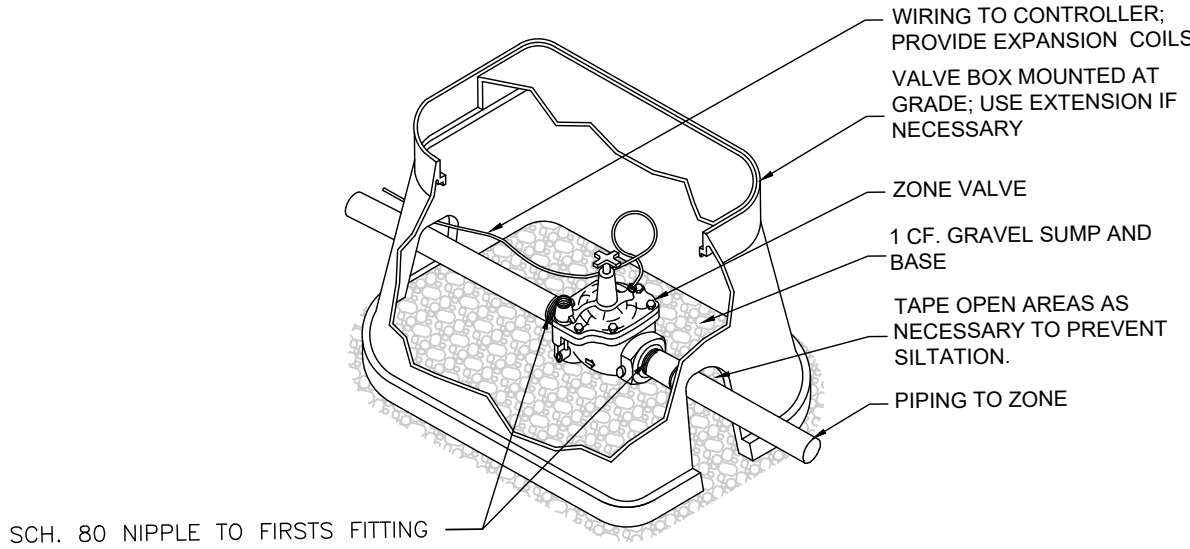
 Irrigation Mainline: PVC Class 200 1-1/2"

 Pipe Sleeve: PVC Schedule 40



1 SLEEVING ROUGH-IN DETAIL

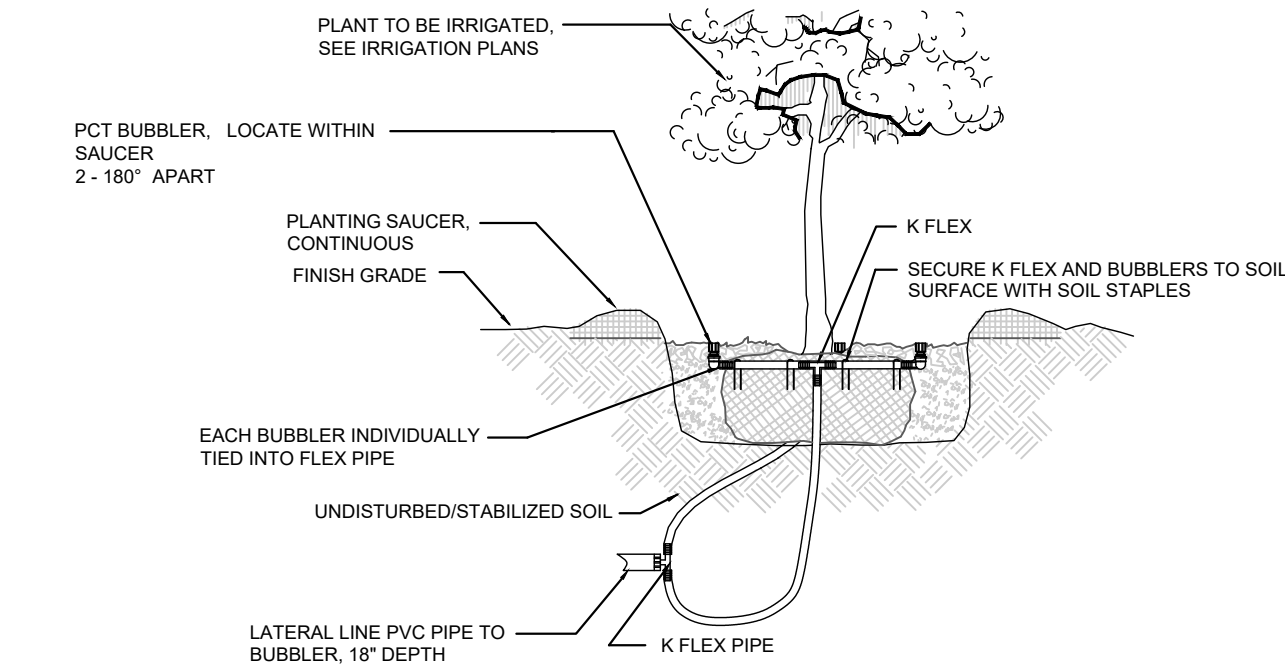
SCALE: N.T.S.



INSTALL TOP OF VALVE A MAXIMUM OF 15" FROM FINISHED GRADE.

2 ZONE VALVE INSTALLATION DETAIL

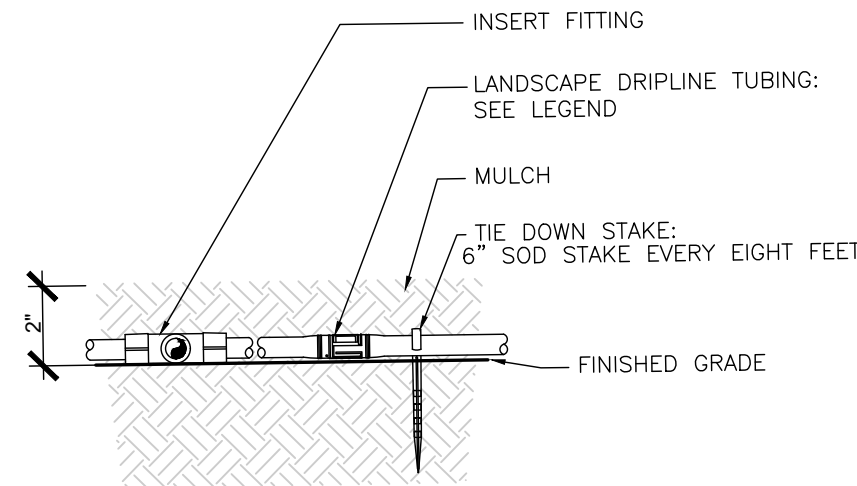
SCALE: N.T.S.



- NOTES:**
- BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES & ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER.
 - BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL OR NEXT TO TRUNK.
 - REFER TO PLANS FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES PER TREE OR PALM.

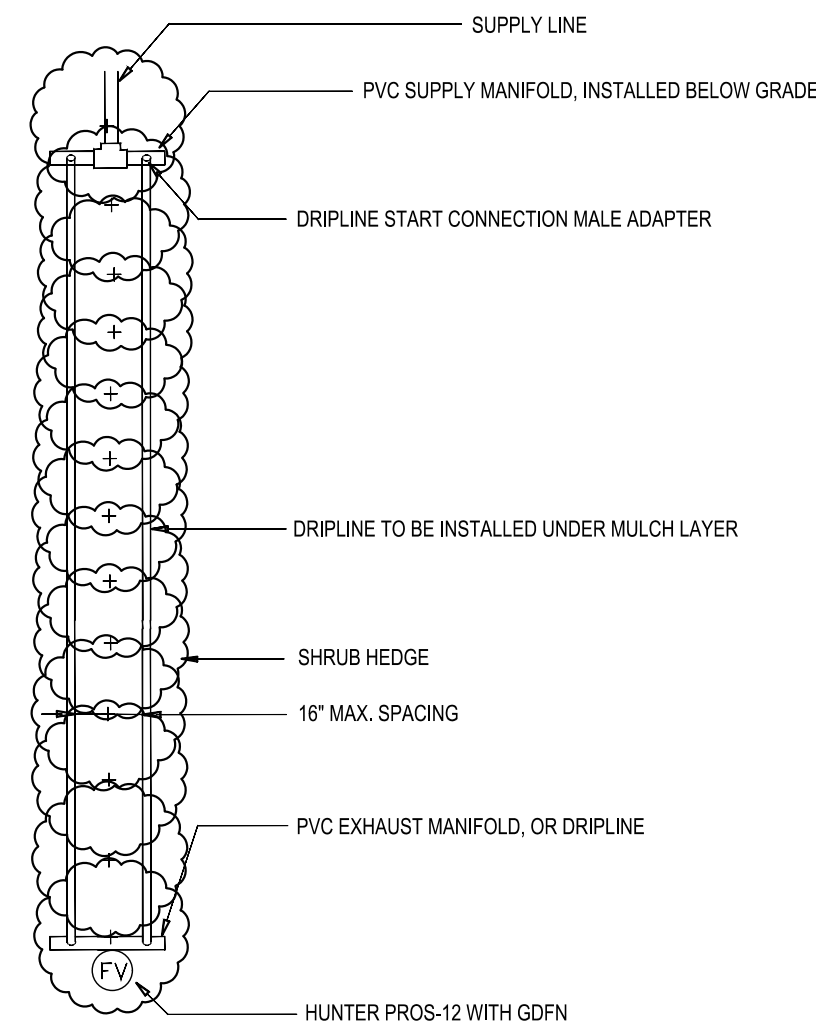
3 BUBBLER APPLICATION

SCALE: N.T.S.



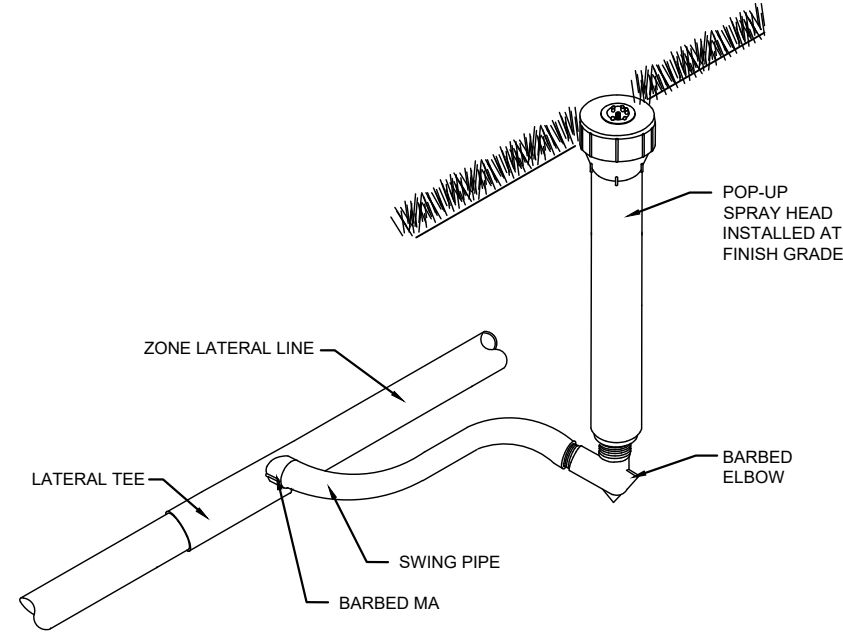
4 DRIPLINE INSTALLATION DETAIL

SCALE: N.T.S.



5 DRIPLINE LAYOUT

SCALE: N.T.S.



6 SPRAY HEAD AND ROTOR DETAIL

SCALE: N.T.S.



KNOW WHAT'S
BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast, it's free, it's the law.
Call 811 two business days
before digging

11801 Research Drive
Alachua, Florida 32615
(352)331-1976
www.nv5.com
LA6667049

NV5

SCALE: N/A
VERIFY SCALE
BASED ON SCALE
ON
ORIGINAL DRAWING
0 IF NOT THE NUMBER
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION/REV REVISIONS

SUBMITTALS
12/20/2024 - SUBMITTAL TO FERNANDINA BEACH
04/04/2025 - SUBMITTAL TO FERNANDINA BEACH
04/28/2025 - SUBMITTAL TO FERNANDINA BEACH

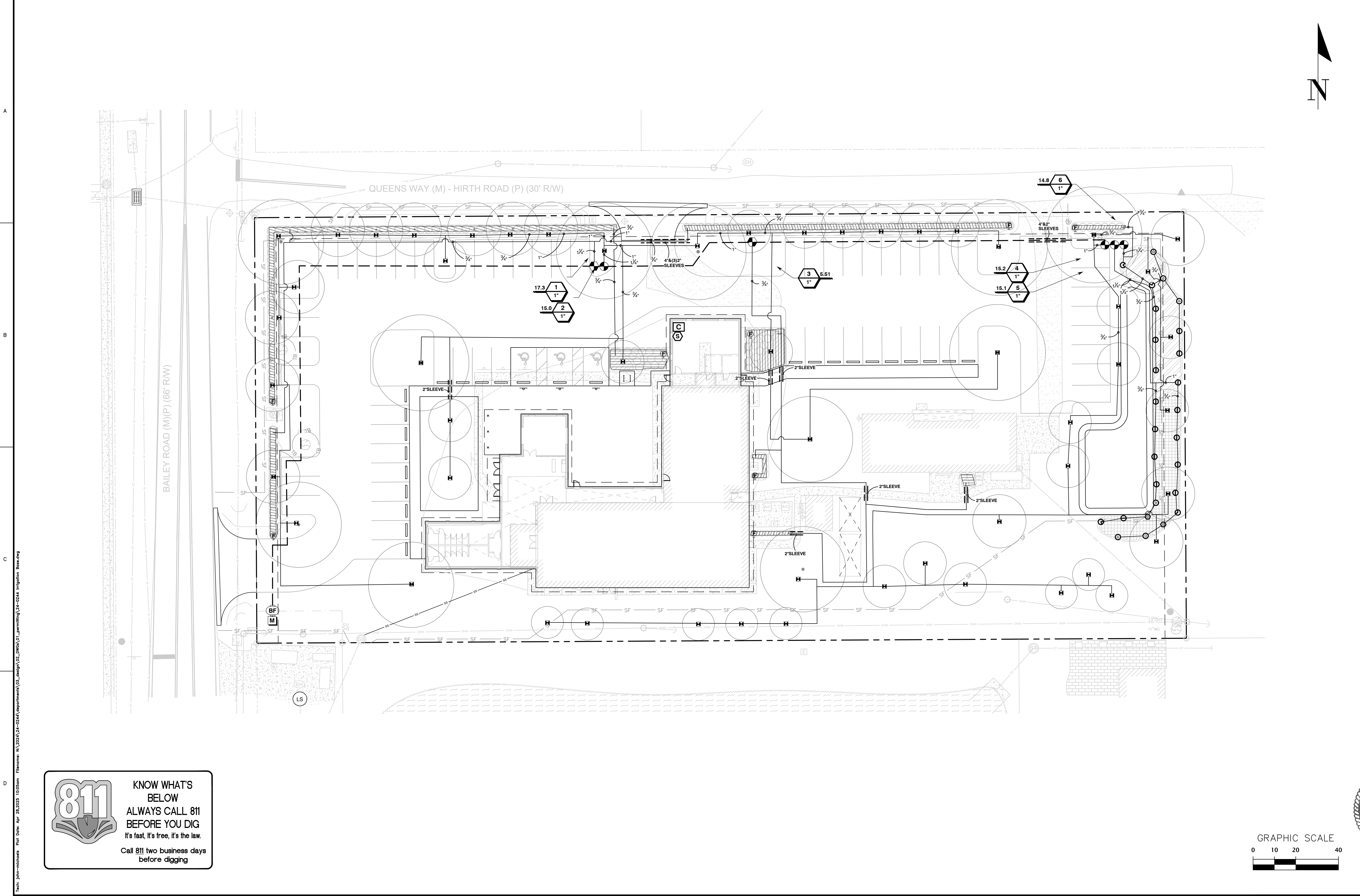
CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH

TECHNICIAN: HL
DESIGNER: JMS
QUALITY CONTROL: JMS
PROJECT NUMBER: 24-0244

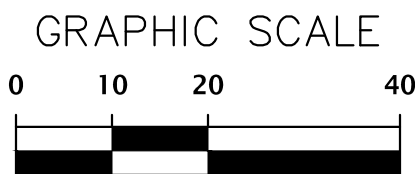


Digitally signed by John Michael Simpson
Date: 2025.04.28
20:50:31 -0500

SHEET NO.: IR-1



KNOW WHAT'S
BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast, it's free, it's the law.
Call 811 two business days
before digging



11801 Research Drive
Alachua, Florida 32615
(352)331-1976
www.nv5.com
LA6667049

NIV5

SCALE: 1"=20'
VERIFY SCALE
BASED ON SCALE ON
ORIGINAL DRAWING
0" MEANS THE NUMBER
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

DATE: 12/20/2024
SUBMITTAL TO FERNANDINA BEACH
04/04/2025 - SUBMITTAL TO FERNANDINA BEACH
04/28/2025 - SUBMITTAL TO FERNANDINA BEACH

CLIENT: CHRISTWALK CHURCH
PROJECT: CHRISTWALK CHURCH FERNANDINA BEACH
SHEET TITLE: IRRIGATION PLAN

DESIGNER: JMS
QUALITY CONTROL: JMS
PROJECT NUMBER: 24-0244

REGISTERED LANDSCAPE ARCHITECT
JOHN MICHAEL SIMONSON
LA6667436
STATE OF FLORIDA

Digitally signed by John Michael Simonson
DN: cn=John Michael Simonson, o=NV5, ou=NV5, email=jms@nv5.com, c=US

SHEET NO: IR-2

THE TREE SURGEONS

711 Beach Street Apt # 1320 Jacksonville beach 32250 ♦ Brad@nassaucountytreesurgeons.com ♦ 904-206-1237

June 25, 2024

Blake Snapp

2920 Bailey Rd
Fernandina Beach, FL, 32034

On June 26, 2024, Blake Sapp the lead pastor of Christ Walk Church, asked me to assess the trees on the church premises. During my evaluation, I identified several trees that should be removed. I have prepared a list for the church detailing which trees will remain and which will be removed.

The trees in question (numbers 4, 5, 6, and 7) are primarily water oaks. These trees show significant signs of decay, including basal rot, root rot, and many are hollow. Unfortunately, they have reached the end of their lifespan and now pose a risk to both people and property.

Additionally, there is a Loblolly pine tree located in the front left corner of the lot. This tree has a sizable cavity in its trunk. While the current load on the cavity is not substantial, I am concerned that it may deteriorate further in the next 5 to 10 years. With cars and pedestrians frequently passing underneath during business hours, I do not believe it is prudent to keep this pine tree. Therefore, I recommend its removal, as it presents a moderate risk.

Sincerely,

Brad Miller/FL-10016-A

Cole Menhennett

From: David Neville <dneville@fbfl.org>
Sent: Wednesday, April 16, 2025 1:11 PM
To: Suzy Rabun; Brad Miller
Cc: Blake Snapp; Cole Menhennett
Subject: FW: Christ walk assessment



David Neville
Urban Forester/Arborist
City of Fernandina Beach
204 Ash Street
Fernandina Beach, Florida 32034
(904) 310-3484 | dneville@fbfl.org
www.fbfl.us

If this email is related to the Board, Committee or Commission that you serve on, please DO NOT REPLY TO ALL.

Disclaimer: According to Florida Public Records Law, email correspondence to and from the City of Fernandina Beach, including email addresses and other personal information, is public record and must be made available to the public and media upon request, unless otherwise exempted by the Public Records Law. If you do not want your email address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by phone or in writing.

From: David Neville
Sent: Wednesday, April 16, 2025 9:19 AM
To: Margaret Pearson <mpearson@fbfl.city>
Subject: FW: Christ walk assessment

Hi Margaret, here is the assessment requested for ChristWalk for their trees.

From: David Neville <dneville@fbfl.org>
Sent: Wednesday, April 16, 2025 9:12 AM
To: David Neville <dneville@fbfl.org>
Subject: Christ walk assessment

Christwalk Church

Tree No.	Common Name	Bad DBH Removed	Good DBH Removed	DBH Retained	DBH C
1	loblolly pine			23	
2	loblolly pine			23	
3	loblolly pine		23		
4	Water Oak		18		
5	Water Oak		19		
6	Water Oak		26		
7	Water Oak		15		
Total inches	147	0	101	46	0
	7	0	5	2	
50 Percent			25.25		
101		25.25			

7 total trees will be removed on this lot at 101 inches in diameter. 25% of this is 25.25 inches. 7 of these removals at 129 inches are poor or very poor quality with decay (for example), so they still count. 2 trees will be retained at 46 inches or 356 inches of DBH Credit.

The TPZ (tree protection zone) and fence is sketched in blue and will be at least 6x the diameter of the tree. Example 1: a 12 inch tree x 6 = TPZ of 72 inches. Example 2: A 20 inch tree x 6 = TPZ of 120 inches. The footprint of the structure(s) and driveway will be provided on a separate map.

I, Brad Miller, am a certified arborist through the International Society of Arboriculture and my certificate number is 123456789. I hereby attest that I have prepared this tree protection and replacement plan and/or restoration plan and have reviewed the complete construction plan set and the techniques that will be utilized to implement the plan, as supported by the International Society of Arboriculture, are being implemented to avoid or minimize damage to trees.

Print Name: _____ Signature: _____ Date: 6/27/2023

The Tree Surgeons

9042061237

Brad@nassaucountytreesurgeons.com

Sent from my iPhone



David Neville
Urban Forester/Arborist
City of Fernandina Beach
204 Ash Street
Fernandina Beach, Florida 32034
(904) 310-3484 | dneville@fbfl.org
www.fbfl.us

If this email is related to the Board, Committee or Commission that you serve on, please DO NOT REPLY TO ALL.

Disclaimer: According to Florida Public Records Law, email correspondence to and from the City of Fernandina Beach, including email addresses and other personal information, is public record and must be made available to the public and media upon request, unless otherwise exempted by the Public Records Law. If you do not want your email address released in response to a public records request, do not send electronic mail to this entity. Instead, contact this office by phone or in writing.