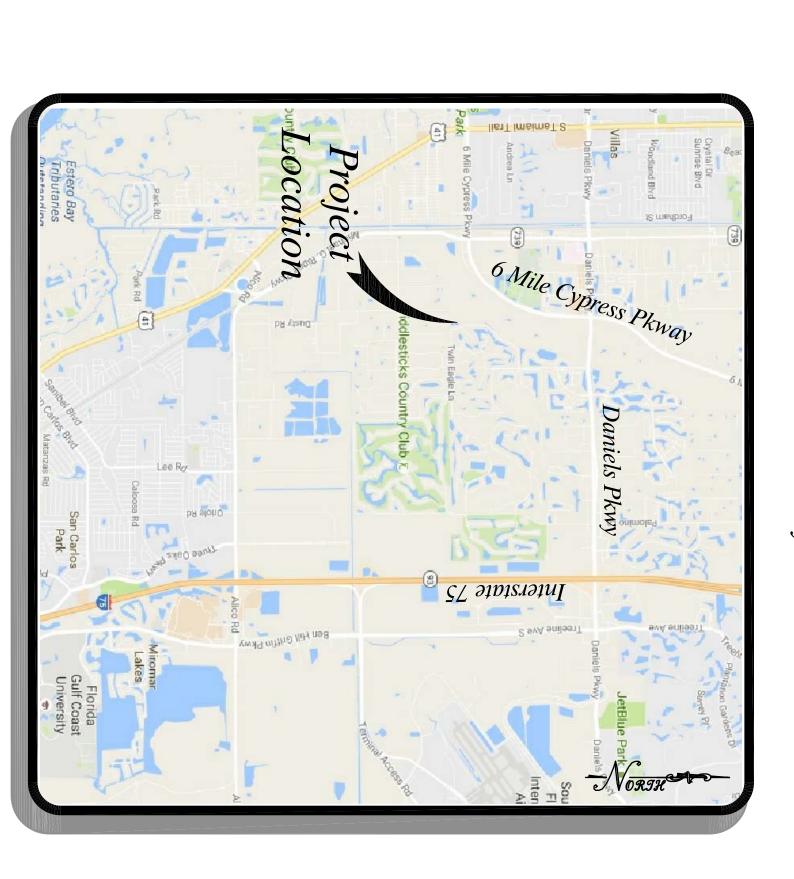




Tagle Ridge WWTF Surge Tank Replacement Inawings FLA014498

Section 29, Township 45 South, Range 25 East Fort Myers, Lee County Florida



6

Influent Screen and Surge Tank Elevations

Piping, Paving, and Grading Plan

Existing Conditions Survey

Demolition Plan

General Notes and Engineering Notes

Drawing Description
Sheet and Drawing Index

DRAWING INDEX

Screen and Screw Details

Number

14668 Aeries Way Drive

Fort Myers,

Florida

Lee

County

Eagle Ridge WWTF

Facility Location

LOCATION MAP

Not To Scale

Vice President of Operations Mr. Patrick Flynn Utilities, Inc. **Owner**

Altamonte Springs, Florida 32714 200 Weathersfield Avenue

Enviromental Engineering

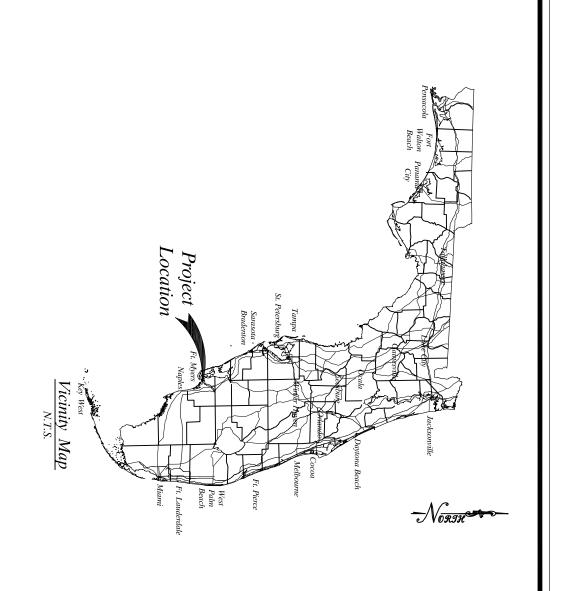
BOYLAN DENVIRONMENTAL CONSULTANTS, INC.

EST. 1989



ENVIRONMENTAL & CIVIL ENGINEERS
CERTIFICATE OF AUTHORIZATION NO. 27541 122 WILSHIRE BOULEVARD CASSELBERRY, FL 32707 TEL: (407) 260-2292 FAX: (407) 260-1193 WWW.EXCELENGINEERS.COM

Survey Provided By





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                                                                                CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION WHICH IS MADE PART OF THESE PLANS
AND SPECIFICATIONS BY REFERENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UTILITY SEPARATION REQUIREMENTS:
THE MINIMUM HORIZONTAL AND VERTICAL SEPARATIONS REQUIRED FOR POTABLE WATER SHALL COMPLY WITH RULES 62—555.314(1), (2), (3), AND (4) F.A.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MINIMUM COVER OVER ALL UTILITIES SHALL BE 36 INCHES UNLESS NOTED OTHERWISE. CONTRACTOR SHALL INSTALL DUCTILE IRON PIPE WHERE DEPTH OF COVER IS LESS THAN 30 INCHES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WORK PERFORMED UNDER THIS PROJECT SHALL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE CITY, COUNTY, WATER MANAGEMENT DISTRICT, FDEP, AND OWNER AND UNTIL ALL OF THE FOLLOWING DOCUMENTS ARE RECEIVED BY THE OWNER:

A. THE CONTRACTOR'S WAIVERS AND RELEASES OF LIENS.

B. THE CONTRACTOR'S LETTER OF WARRANTY.

C. ONE SET OF PAPER AND ELECTRONIC (AUTOCAD) "AS—BUILT" DRAWINGS PREPARED BY AND CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CONTRACTOR SHALL, CONTACT THE COUNTY TRAFFIC OPERATIONS ENGINEER, PRIOR TO INITIATING ANY CONSTRUCTION IN THE ROW. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION CONFERENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CONTRACTOR SHALL PAY FOR AND OBTAIN A CITY AND/OR STATE SITE CONSTRUCTION PERMIT; THE COUNTY SITE PERMIT AND/OR UNDERGROUND UTILITY PERMIT AND HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE CITY AND/OR THE COUNTY BEFORE STARTING WORK. CONTACT DEVELOPMENT REVIEW DIVISION, FOR INFORMATION ON SETTING THE PRE CONSTRUCTION MEETING, ISSUANCE OF COUNTY PERMITS AND OTHER REQUIREMENTS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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ELECTRIC, AND/OR COMMUNICATIONS. UTILITY LOCATIONS SHOWN ON PLANS NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING PRIOR TO CONSTRUCTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR TRENCH CONSTRUCTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONTRACTOR SHALL VERIFY ALL DIMENSIONS WHERE STRUCTURES SHALL BE IMPACTED BY THE CONSTRUCTION PRIOR TO SUBMITTALS AND FABRICATION OF COMPONENTS AND MATERIALS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              NO VARIANCES OR EXCEPTIONS TO THE ABOVE REQUIREMENTS WILL BE PERMITTED UNLESS APPROVAL FOR THE EXCEPTION OR VARIANCE IS OBTAINED FROM THE FDEP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ALL STRIPING LAYOUTS WITHIN THE ROW MUST BE INSPECTED BY THE COUNTY AND THE CITY PRIOR TO PERMANENT
APPLICATION OF MARKINGS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NOTIFY SUNSHINE, THE COUNTY PUBLIC UTILITIES AND ALL UTILITY COMPANIES AT LEAST FORTY—EIGHT HOURS PRIOR
TO COMMENCING THE CONSTRUCTION .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY, WATER MANAGEMENT DISTRICT, FDEP AND THESE PLANS AND SPECIFICATIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONTRACTOR SHALL MAINTAIN ALL SETBACK DISTANCES SHOWN IN THE PLANS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY OMISSION OR CONFLICT. CONTRACTOR SHALL INFORM ENGINEER OF ANY OMISSION OR CONFLICT AS SOON AS IT IS DISCOVERED AND BEFORE ANY WORK IS DONE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS TO COMPLETE THE CONSTRUCTION OF THIS PROJECT, INCLUDING PERMITS FROM THE CITY, COUNTY, AND/OR STATE.
                                                                                                                                                                                                                       THESE PLANS AND SPECIFICATIONS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF APPURTENANCES AND INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM THE CONTRACT DOCUMENTS AND THE INTENT OF THE CONTRACT DOCUMENTS. CONTRACTOR FITTINGS, APPURTENANCES AND INCIDENTALS FOR A COMPLETE AND FUNCTIONAL SYSTEM IN CONTRACT DOCUMENTS AND LOCAL, STATE AND FEDERAL AGENCIES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MINIMUM COVER OVER ALL DRAINAGE PIPES SHALL BE 24 INCHES UNLESS NOTED OTHERWISE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALL RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 AND MAXIMUM CROSS SLOPE OF 1:50 AS PER FHAC CODE.
TRAFFIC CONTROL DEVICES, OF THE CITY AND THE COUNTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HE CONTRACTOR SHALL THOROUGHLY REVIEW AND APPROVE SHOP DRAWINGS, PRIOR TO SUBMITTING, TO EXCEL NGINEERING CONSULTANTS (ENGINEER). CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS OF WORK FOR EVIEW PRIOR TO ORDERING OR FABRICATION OF COMPONENTS OR SYSTEMS. THE CONTRACTOR SHALL ALLOW TEN JORKING DAYS FOR REVIEW OF EACH SUBMITTAL OR REQUEST FOR CLARIFICATION AND SHALL NOT ORDER OR ABRICATE COMPONENTS OF SYSTEM UNTIL ALL QUESTIONS RAISED BY THE ENGINEER HAVE BEEN ADDRESSED IN IRITING AND ACCEPTED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBMITTALS AND REQUESTS FOR INFORMATION SHALL BE SUBMITTED TO ENGINEER: MR. JULIAN R. COTO, P.E. EXCEL ENGINEERING CONSULTANTS, LLC. 122 WILSHIRE BLVD. CASSELBERRY, FLORIDA 32707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A. UNDERGROUND RECLAIMED WATER PIPE LESS THAN 4 INCHES IN DIAMETER SHALL BE SDR-21 PVC PIPE CONFORMING TO ASTM D-2241, UNLESS NOTED OTHERWISE IN THE PLANS. FITTINGS FOR PVC PIPE SHALL BE SDR 21 FITTINGS. GLUE FOR GLUED JOINTS SHALL BE NSF APPROVED. UNDERGROUND WATER PIPES 4 INCHES IN DIAMETER AND GREATER SHALL BE DR 18 PVC PIPE CONFORMING TO THE REQUIREMENTS OF AWWA C-900 WITH CLASS 250 DIP MJ FITTINGS.

B. ABOVEGROUND RECLAIMED WATER PIPE LESS THAN 4 INCHES IN DIAMETER SHALL BE SCH 40 GS THREADED FITTINGS. PIPE AINCHES IN DIAMETER SHALL BE CLASS 53 FLANGED PIPE. FITTINGS SHALL BE SCH 40 GS THREADED FITTINGS. PIPE AND FITTINGS SHALL BE CLASS 53 FLANGED D.I.P. FITTINGS SHALL BE CLASS 250 DIP FLANGED FITTINGS. PIPE AND FITTINGS SHALL BE CLASS 53 FLANGED D.I.P. FITTINGS SHALL BE CLASS 250 DIP FLANGED FITTINGS. PIPE AND FITTINGS SHALL BE NSF APPROVED.

C. ALL RECLAIMED WATER MAIN PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED USING PURPLE AS A PREDOMINANT COLOR TO DIFFERENTIATE RECLAIM WATER FROM POTABLE OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL PURPLE STRIPES, INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE PURPLE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE PURPLE STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED.

INTACT DURING PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED.
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CONCRETE A. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM SLUMP OF 5 INCHES, UNLESS NOTED OTHERWISE. CONCRETE FOR WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI WITH A MAXIMUM SLUMP OF 5 INCHES. B. CONCRETE FOR DRAINAGE AND SANITARY SEWER STRUCTURES SHALL BE TYPE II CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. DAY COMPRESSIVE STRENGTH OF 4,000 PSI. QUALITY CONTROL A. PROVIDE ONE DENSITY AND ONE FBV TEST ON THE SUB-BASE AT 300' INTERVALS FOR ROADWAYS AND DRIVEWAYS AND AT EVERY 10,000 S.F. FOR PARKING LOTS.
DO PSI WITH A MAXIMUM SLUMP OF MINIMUM 28 DAY COMPRESSIVE II CONCRETE WITH A MINIMUM 28 RVALS FOR ROADWAYS AND DEVENANCE.

E.1 PRESSURE TEST FIRE MAINS, WATER MAINS AND FORCEMAINS BY PUMPING TO 200 PSI FOR FIRE MAINS,
E. PRESSURE TEST FIRE MAINS, WATERMAINS & FORCEMAINS
REQUIRMENTS. A MINIMIN OF TWO(2) TESTS ARE REQUIRED FOR ANY SECTION SMALLER THAN NOTED
SPECIFICATIONS AND THESE PLANS AND SPECIFICATIONS AND SHALL MEET OR EXCEED THE MINIMUM
-
C PROVIDE ONE ASPHALT CORE TEST AT 10,000 S.F. ASPHALT CORES SHALL RE TESTED FOR DENSITY THICKNESS
B. PROVIDE ONE DENSITY TEST FOR FILL MATERIAL FOR EVERY 12" LIFT INTERVALS FOR ROADWAYS AND DRIVEWAYS
DRIVEWAYS AND AT EVERY 10,000 S.F. FOR PARKING LOTS.
A. PROVIDE ONE DENSITY AND ONE FBV TEST ON THE SUB-BASE AT 300' INTERVALS FOR ROADWAYS AND
QUALITY CONTROL
B. CONCRETE FOR DRAINAGE AND SANITARY SEWER STRUCTURES SHALL BE TYPE IT CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
5 INCHES, UNLESS NOTED OTHERWISE. CONCRETE FOR WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE
A. CONCRETE SHALL HAVE A MINIMUM 20 DAY COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM SLUMP OF

MAINTAINING THE PRESSURE FOR A MINIMUM PERIOD OF 2 HOURS. PRIOR TO PRESSURE TESTING, FLUSH
PRESSURE TEST FIRE MAINS, WATER MAINS AND FORCEMAINS BY PUMPING TO 200 PSI FOR FIRE MAINS, 150 PSI FOR WATER MAINS, AND 150 PSI FOR SS FORCEMAINS. AND 150 PSI FOR SS FORCEMAINS.
ISSURE TEST FIRE MAINS, WATERMAINS & FORCEMAINS
OVIDE ONE ASPHALT CORE TEST AT 10,000 S.F. ASPHALT CORES SHALL BE TESTED FOR DENSITY, THICKNESS DATION, ASPHALT CONTENT AND MARSHALL STABILITY AND SHALL BE COMPARED TO THAT OF THE FDOT CONTENTS AND THESE PLANS AND SPECIFICATIONS AND SHALL MEET OR EXCEED THE MINIMUM
VIDE ONE DENSITY TEST FOR FILL MATERIAL FOR EVERY 12" LIFT INTERVALS FOR ROADWAYS AND DRIVEWAYS OAT FYFRY 10,000 S.F. FOR PARKING LOTS.
<u>CONTROL</u> WIDE ONE DENSITY AND ONE FBV TEST ON THE SUB-BASE AT 300' INTERVALS FOR ROADWAYS AND VEWAYS AND AT EVERY 10,000 S.F. FOR PARKING LOTS.
ICRETE FOR DRAINAGE AND SANITARY SEWER STRUCTURES SHALL BE TYPE II CONCRETE WITH A MINIMUM 28 COMPRESSIVE STRENGTH OF 4,000 PSI.
NCHES, UNLESS NOTED OTHERWISE. CONCRETE FOR WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE ENGTH OF 4,000 PSI WITH A MAXIMUM SLUMP OF 5 INCHES.

ı	5 INCHES, UNLESS NOTED OTHERWISE. CONCRETE FOR WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI WITH A MAXIMUM SLUMP OF 5 INCHES.
æ	CONCRETE FOR DRAINAGE AND SANITARY SEWER STRUCTURES SHALL BE TYPE II CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
QUAI	QUALITY CONTROL
⋋	A. PROVIDE ONE DENSITY AND ONE FBV TEST ON THE SUB-BASE AT 300' INTERVALS FOR ROADWAYS AND
	DRIVEWAYS AND AT EVERY 10,000 S.F. FOR PARKING LOTS.
œ	PROVIDE ONE DENSITY TEST FOR FILL MATERIAL FOR EVERY 12" LIFT INTERVALS FOR ROADWAYS AND DRIVEWAY
	AND AT EVERY 10,000 S.F. FOR PARKING LOTS.
က	PROVIDE ONE ASPHALT CORE TEST AT 10,000 S.F. ASPHALT CORES SHALL BE TESTED FOR DENSITY, THICKNES:
	GRADATION, ASPHALT CONTENT AND MARSHALL STABILITY AND SHALL BE COMPARED TO THAT OF THE FDOT
	SPECIFICATIONS AND THESE PLANS AND SPECIFICATIONS AND SHALL MEET OR EXCEED THE MINIMUM
	REQUIRMENTS.
	A MINIMUM OF TWO(2) TESTS ARE REQUIRED FOR ANY SECTION SMALLER THAN NOTED.
iп	PRESSURE TEST FIRE MAINS, WATERMAINS & FORCEMAINS
	E.1 PRESSURE TEST FIRE MAINS, WATER MAINS AND FORCEMAINS BY PUMPING TO 200 PSI FOR FIRE MAINS, ED 150 PSI FOR FIRE MAINS AND 100 PSI FOR SS FORCEMAINS AND 150 PSI FORCEMAINS AND
	MAINTAINING THE PRESSURE FOR A MINIMUM PERIOD OF 2 HOURS. PRIOR TO PRESSURE TESTING, FLUSI

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N 0.

A. ALL DISTURBED AREAS SHALL BE RESTORED IN LIKE KIND WITH NEW MATERIALS, UNLESS NOTED OTHERWISE. AT A MINIMUM ALL DISTURBED AREAS SHALL BE STABILIZED IN AN APPROVED MANNER. ALL SIDEWALKS AND PAVEMENTS THAT NEED TO BE DISTURBED SHALL BE SAW CUT TO ITS FULL DEPTH PRIOR TO CONSTRUCTION. SUBSEQUENTLY, PAVEMENTS SHALL BE RESTORED IN ACCORDANCE WITH THE PAVEMENT RESTORATION DETAILS EXCEPT THAT CONCRETE DRIVEWAYS SHALL BE RESTORED WITH CONCRETE WITH A MINIMUM THICKNESS OF 6 INCHES. SIDEWALKS SHALL BE RESTORED IN ACCORDANCE WITH THE SIDEWALK DETAILS.

C. RESTORATION OF GRASSED AREAS WITHIN RIGHTS OF WAY SHALL BE ACCOMPLISHED BY SOLID SODDING WITH BAHIA SOD UNLESS NOTED OTHERWISE.

D. CONTRACTOR SHALL WAITER ALL GRASSED AREAS AND APPLY FERTILIZERS, ETC. AS NECESSARY TO MAINTAIN THE VIABILITY OF THE GRASS UNTIL IT BECOMES ESTABLISHED.

E. THE PLANS SHOW EXISTING FEATURES TO THE GREATEST EXTENT POSSIBLE. ALL DISTURBED FEATURES ALONG THE RIGHTS OF WAY SHALL BE RESTORED WHETHER SPECIFICALLY CALLED OUT ON THE PLANS OR NOT. CONTRACTOR SHALL WALK THE SITE TO FIELD VERIFY ALL SURFACE FEATURES AND INCLUDE ALL THOSE THAT WILL BE DISTURBED BY THE CONSTRUCTION IN ITS BID.

CABLE, NATURAL GAS, SANITARY

P = AVERAGE TEST PRESSURE MAINTAINED DURING THE TEST, IN POUNDS PER IN² GAUGE SANITARY SEWER GRAVITY LINES WILL BE TESTED BY LAMPING AND LOW PRESSURE AIR TEST. WHEN THE LAMPING PROCEDURE IS PERFORMED, EACH TEST SECTION OF PIPE (BETWEEN MANHOLES) WITH A FULL CIRCLE SHOWING SHALL BE CONSIDERED TO BE ACCEPTABLE. SANITARY SEWER LINES WILL BE LOW PRESSURE AIR TESTED USING THE LATEST UNI-BELL STANDARD. ENGINEER MUST BE PRESENT FOR ALL LAMPING AND LOW PRESSURE AIR TESTS. CONTRACTOR TO PROVIDE ENGINEER WITH A MINIMUM 48 HOURS OF NOTICE PRIOR TO COMMENCEMENT OF ANY LAMPING OR LOW PRESSURE AIR TEST.

ACKFILL AND PIPE BEDDING MATERIAL SHALL THE PIPE STARTING AT THE BOTTOM OF THE A MINIMUM OF 2 TESTS PER EXCAVATION

E IS PERFORMED, EACH TEST E SHOWING SHALL BE CONSIDERED CONTRACTOR TO PROVIDE F ANY LAMPING TEST.

A. PIPE SUPPORTS SHALL BE COST IRON PIPE STANCHION SADDLES SIMILAR TO ITT GRINNELL CAT. PH 81, FIGURE 259. PIPE STRAPS SHALL BE CAST IRON PIPE STRAPS SIMILAR TO ITT GRINNELL CAT. PH 81, FIG. 262.

B. FASTENERS USED TO FASTEN COMPONENTS TO CONCRETE SLAB SHALL BE ½" DIAMETER x 2.5 INCHES LONG CONCRETE ANCHORS. PROVIDE BOLTS, NUTS, WASHERS AND DIELECTRIC WASHERS AS MAY BE NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEMS.

C. MINIMUM COVER OVER ALL UTILITIES OUTSIDE THE WWIF SITE SHALL BE 36 INHES UNLESS NOTED OTHERWISE. MINIMUM COVER OVER ALL UTILITIES WITHIN THE WWIF SITE SHALL BE 18 INCHES UNLESS NOTED OTHERWISE.

D. PROVIDE ALL ELECTRICAL SERVICE CONNECTIONS TO BE IN COMPLETE AND FUNCTIONAL SYSTEM.

COORDINATE POWER REQUIREMENTS WITH ELECTRICAL UTILITY COMPANY PRIOR TO CONSTRUCTION.

E. AIR LINES SHALL BE THREADED SCH 40 G.S.P. UNIDERGROUND PIPE MAY BE SCH 80 PVC. AIR HEADER SHALL BE PROVIDED WITH CHECK VALVE AND DISCHARGE SILENCER. AIR LINES TO DIFFUSERS SHALL BE PROVIDED WITH BALL VALVES OF SAME SIZE AS THE PIPE. PROVIDE ALL FITTINGS AND ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM.

F. SEWAGE PIPE SHALL BE SCH 80 PVC PIPE UNLESS NOTED OTHERWISE. UNDERGROUND SEWAGE PIPE SHALL BE SCH 40 PVC PIPE UNLESS NOTED OTHERWISE. WIDERGROUND SEWAGE PIPE SHALL BE SCH 40 PVC PIPE UNLESS NOTED OTHERWISE. UNDERGROUND SEWAGE PIPE SHALL BE SCH 40 PVC PIPE UNLESS NOTED OTHERWISE. UNDERGROUND SEWAGE PIPE SHALL BE SCH 40 PVC PIPE AND FUNCTIONAL SYSTEM.

G. UNDERGROUND VALVES SHALL BE ACTUATED WITH A SQUARE NUT, U.N.O. PROVIDE VALVE BOXES WITH UNDERGROUND VALVES MAY BE SCH AND CONCRETE COLLAR.

REQUIREMENTS BY THE REGULATORY NGS PREPAIRED BY AND CERTIFIED BY A

VCP	U.N.O.	TEMP.	Sq. Ft.	ST.	SIK.	SFWMD	SJRWMD	R/W	RCP	₽ į	P.P.	B PVC	P.V.T.	P.V.I.	P.V.C.	P.T.	P.I.	P.C.	PVMT.	N.T.S.	N.W.L.	NO.	MIN.	M.H.W.	MES	MAX.	MH	:F	DYH	H.P.	hp	HDPE	HC GSP	G.P.M.	G.P.D.	GAL.	FRAC.	F.G.	П	F 7.	F.F.E.	ESMT.	ERCP	l DP	DIST.	C.Y.	C.F.	CMP	CMAP	CS	C.O.	C.L.F.B.	C.G.		CIP	C.I.	B.M. BDY., BDYS.	ACWP	
VITRIFIED CLAY PIPE	UNLESS NOTED OTHERWISE	TEMPERATURE	SQUARE FEET	STREET	STAKE	SOUTH FLORIDA WATER MANAGEMENT DISTRICT		RIGHT-OF-WAY	REINFORCED CONCRETE PIPE	PROPERTY LINE	POWER POLE	POLYVINYL CHLORIDE	POINT OF VERTICAL TANGENCY	VERTICAL	POINT OF VERTICAL CURVATURE	POINT OF TANGENCY	PFR SOLIARF		PAVEMENT		NORMAL WATER LEVEL	NUMBER	MINIMUM	MEAN HIGH WATER	MITERED END SECTION			LINEAL FEET	FIRE HYDRANT	HIGH POINT	20	HIGH DENSITY POLYETHYLENE PIPE	GALVANIZED STEEL PIPE		GALLONS PER DAY	GALLON	FRACTIONAL ("INVENT)	FINISH GRADE	FILL	FENCE LINE	FINISHED FLOOR ELEVATION		ELLIPTICAL REINFORCED CONCRETE PIPE	DUCTILE IRON PIPE	DISTANCE	CUBIC YARD	CUBIC FEET	METAL	CORRUGATED METAL ARCH PIPE	UCTUR		CHAIN LINK FENCE WITH BARBED WIRE	CENTER OF GRADE	CENTER LINE	CAST IRON PIPE		BENCHMARK BOUNDARY, BOUNDARIES	ASBESTOS CEMENT WATER PIPE	

SILTATION CONTROL FENCE RETAINING WALL RET. RET. RET.	BARBED WIRE FENCE —X———X— CHAIN LINK FENCE ——X———X—	Fences

CATCH BASIN
FORCE MAIN
GAS LINE
LIGHT POLE
MITERED END SECTION
OVERHEAD ELECTRIC
POWER POLE
RECLAIMED WATER PIPE
SANITARY PIPE
SANITARY SEWER MANHOLE
STORM WATER PIPE
STORM WATER MANHOLE
TELEPHONE LINE (BURIED)
TELEPHONE LINE (SUSPENDED)
WATER PIPE

WYE	WATER VALVE	WATER METER	TEE OUTLET UP	TEE OUTLET DOWN	TEE	REDUCING TEE	REDUCING ELBOW	REDUCER	LIFT STATION	PRESSURE REDUCING VALVE	POST INDICATOR VALVE	LINE STOP	HOSE BIB	GATE OR PLUG VALVE	FIRE DEPARTMENT CONNECT	FIRE HYDRANT	ELBOW TURNED UP	ELBOW TURNED DOWN	ELBOW 90°	ELBOW 45	CROSS	CLEAN OUT	CHECK VALVE	CAP	BACK FLOW PREVENTER	BALL VALVE	AIR RELEASE VALVE	DESCRIPTION	
‡× ‡	#*	\$	‡	‡	##	8 ₁₁ ± 11 18	**	, ‡ <u>*</u>	1 1 1 1 1 1 1 1 1 1	*	₽	車	# #	₹ Q P P	# # #	¾	7	7	#	#*	‡ ### ‡	‡	犁	#		‡	\$	NEW	Fitting
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†×		+	+	(1)	++	8 +6 8	14 2	4 2	+0-15	PRV	PIV		+	GV or PV	FDC 	- 34+			+	+	+++++	+	<u></u>	+			ARV	EXISTING	

EXISTING	STANDARD
FITTINGS	JOINT :
EXISTING FITTINGS SCREENED (GRAYED) I	STANDARD JOINT = SCREWED, MECHANICAL OR PUSH ON JOIN
(GRAYED)	MECHANI
UNLESS	CAL OR
UNLESS OTHERWISE NO	PUSH 0
NSE NC	NION.

Notes:
1. Legend Does Not Apply to Survey Drawing.
See Survey For Legend.
2. Existing Features and Structures are Screened Back.

UNPAVED	ROAD CENTER LINE	IMPROVED (PAVED)	CONTOUR LINE (ELEVATION)	ROADS	SINGLE TRACK	IN ROAD OR STREET	DOUBLE TRACK	RAILROADS
=====			8.0	ADS	+++++++++++++++++++++++++++++++++++++++			DADS

Roads and Railroads	uilroads
DOUBLE TRACK	
IN ROAD OR STREET	
SINGLE TRACK	# # # # # # # # # # # # # # # # # # # #
ROADS	DS
CONTOUR LINE (ELEVATION)	8.0
IMPROVED (PAVED)	
ROAD CENTER LINE	
UNPAVED	

WETLAND BUFFER	WETLAND BOUNDARY	WATER LEVEL	SPOT ELEVATION	SANITARY SEWER STRUCTURE LABEL	SAND	RIP RAP	RECLAIMED WATER STRUCTURE LABEL	PROPERTY LINE	POTABLE WATER STRUCTURE LABEL	PLUS OR MINUS	NUMBER OF PARKING STALLS	NORTHING / EASTING IDENTIFIER	LIMITS OF CLEARING AND GRUBBING	FLOW DIRECTION	ELEVATION AT TOP OF SIDE WALK ELEVATION AT PAVEMENT AND/OR FLOW LINE	ELEVATION AT TOP OF CURB ELEVATION AT PAVEMENT AND/OR FLOW LINE	EASEMENT LINE	EARTH	DRAINAGE STRUCTURE LABEL	DIAWETER	CROSS SECTION AT BUILDING ID	CROSS SECTION ID	CONCRETE	
			×100.00	<u>S-100</u>		8	R-001		W-12	H	10	NE-04			T.S.W.= 100.50 PVMT.= 100.00	T.C. = 100.50 PVMT.=100.00			<u>(D- 100)</u>	Ø	01 C-08			4

REVISIONS:

DESCRIPTION

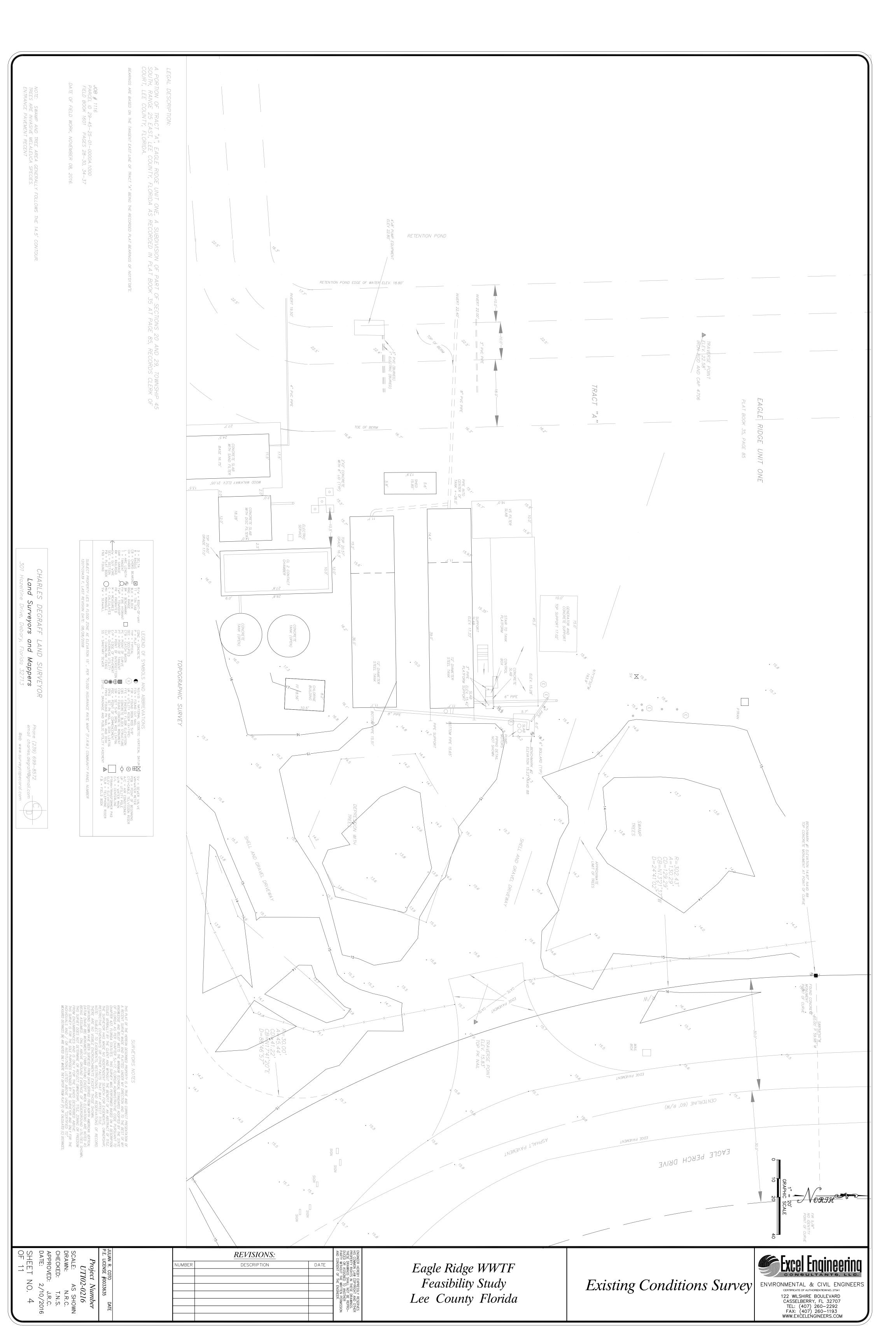
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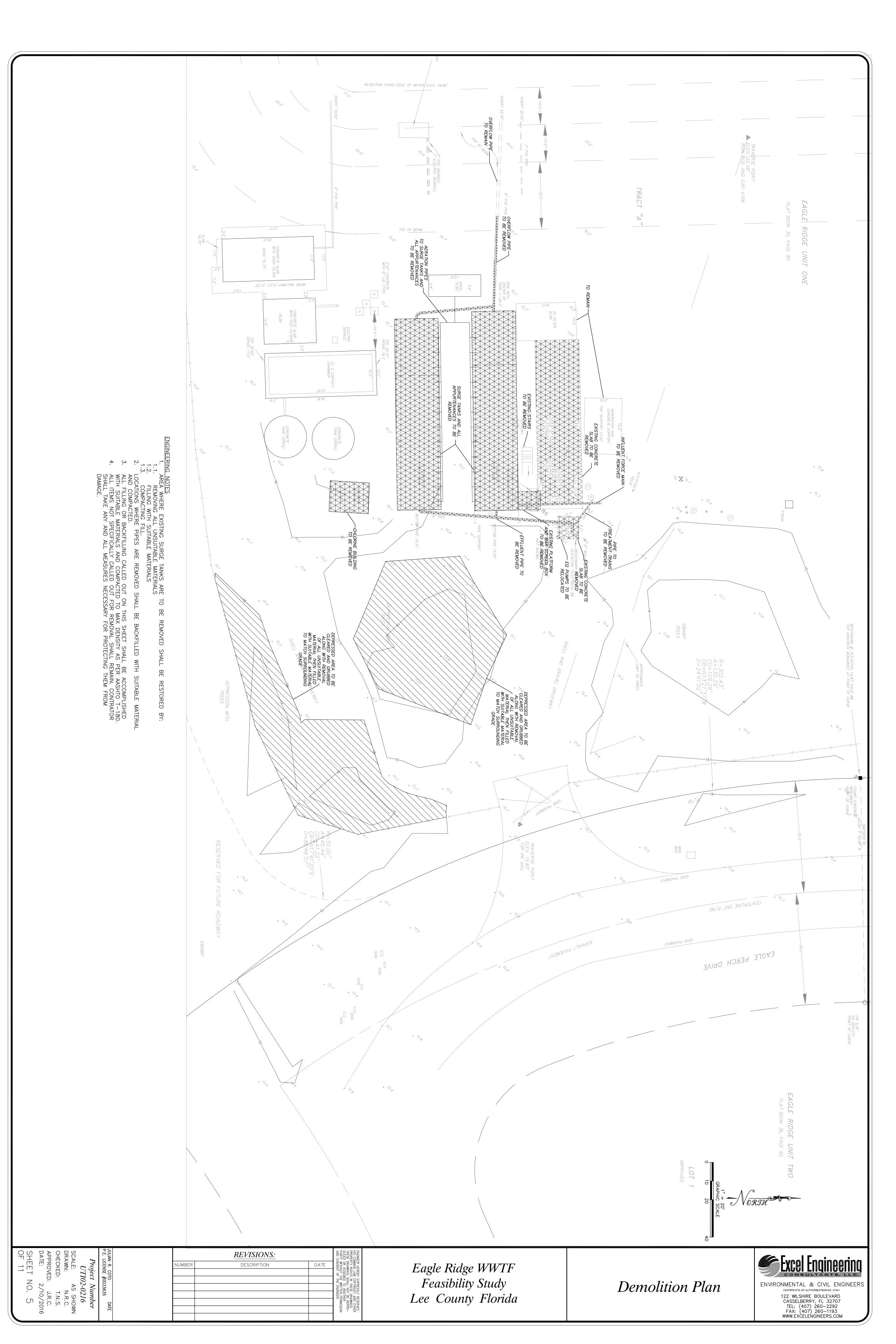
SHEET NO. 3 OF 11	CHECKED: T.N.S. APPROVED: J.R.C. DATE: 2/10/2016	UTI02-0216 SCALE: AS SHOWN DRAWN: N.R.C.	Project Number	JULIAN R. COTO DATE P.E. LICENSE #0033635	

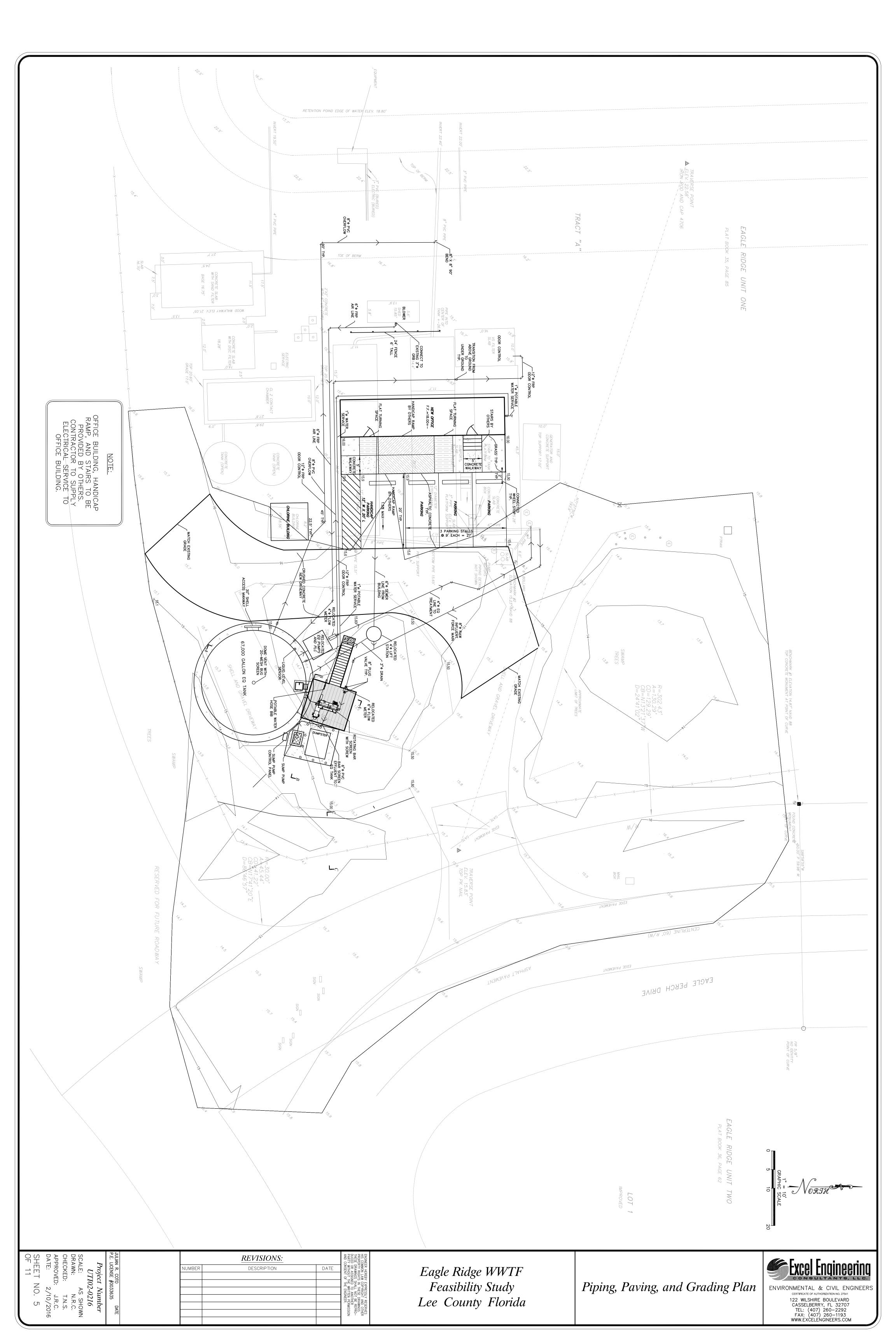
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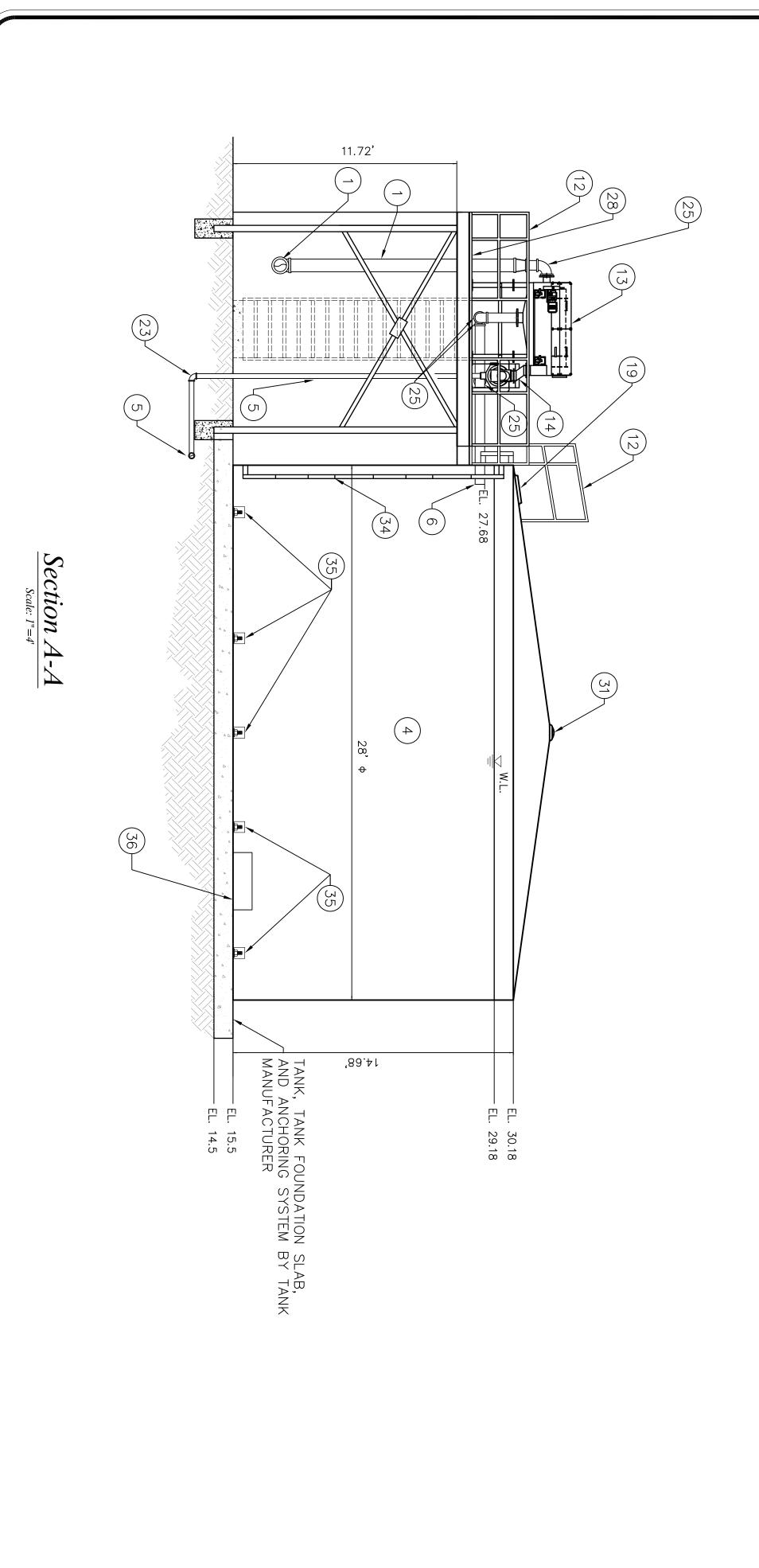
AREAS TO BE REMOVED
BENCHMARK OR ELEVATION
CONCRETE
CROSS SECTION ID

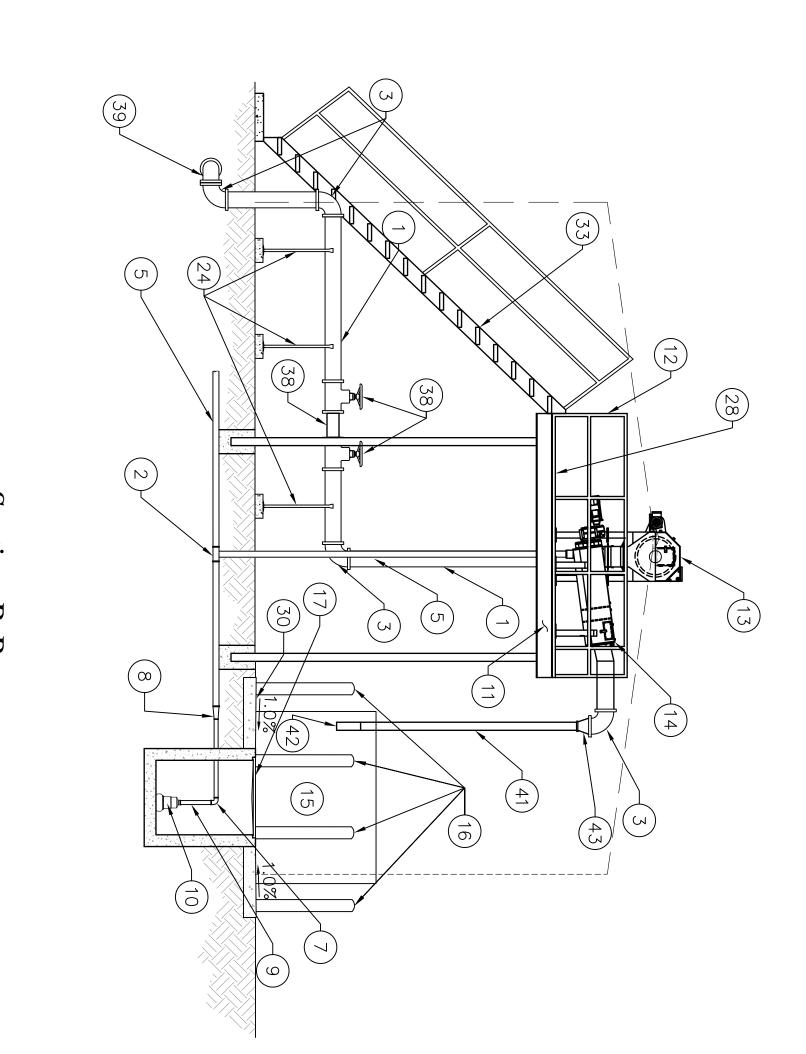


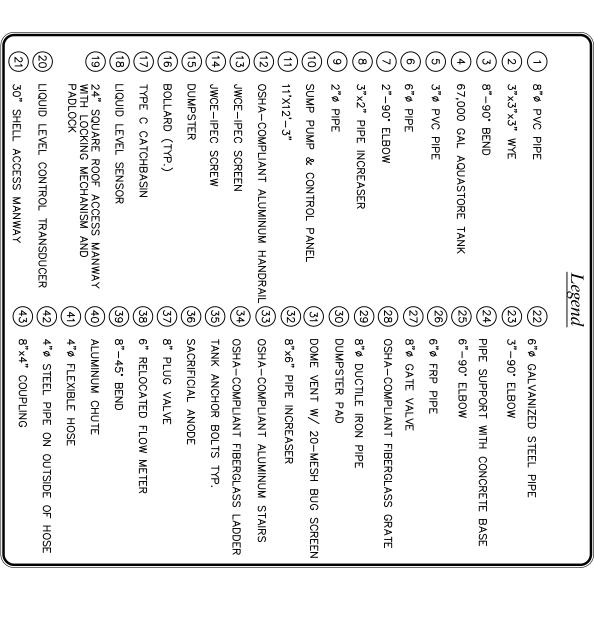












ALL ABOVE GROUND PIPING IS
TO BE SUPPORTED BY PIPE
SUPPORTS THAT ARE ANCHORED
INTO THE NEW REINFORCED
CONCRETE SLABS OR ON
12"x12"x4" THICK CONCRETE
SLABS.

P.E. LICENSE #0033635

Project Number
UTIO2-0216

SCALE: AS SHOWN
DRAWN: N.R.C.
CHECKED: T.N.S.
APPROVED: J.R.C.
DATE: 2/10/2016

SHEET OF 11

Z O. FIXED LADDER INSIDE OF
E.Q. TANK TO MADE OF FRP WITH
1¾" SIDE RAILS WITH 1¼" FLUTED
RUNGS 18" WIDE AND 14'8" LONG
AS MANUFACTURED BY
STRUCTURAL FIBERGLASS OR
APPROVED EQUAL

STAIRS TO SCREEN PLATFORM TO BE MADE OF WELDED ALUMINUM WITH BAR—GRATE 8—5/8" TREADS, 10" X 2.6" ALUMINUM STRINGERS, & WELDED HANDRAILS OF 1.5" X .125" ALUMINUM SQUARE TUBING AS MANUFACTURED BY FSINDUSTRIES OR APPROVED EQUAL.

REVISIONS:

DESCRIPTION

TANK, TANK FOUNDATION SLAB, AND ANCHORING SYSTEM BY TANK

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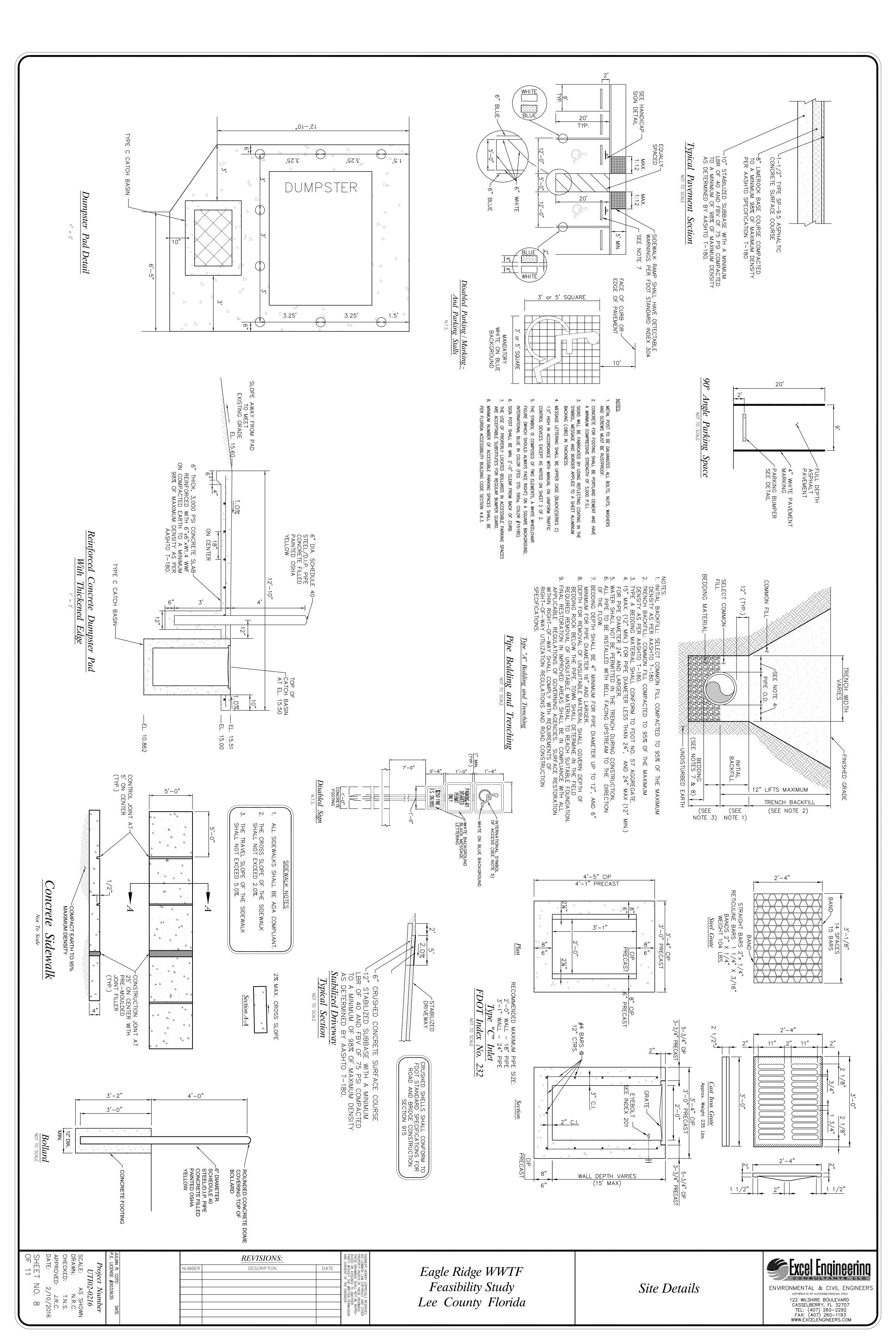
Northwestern Tank Elevation

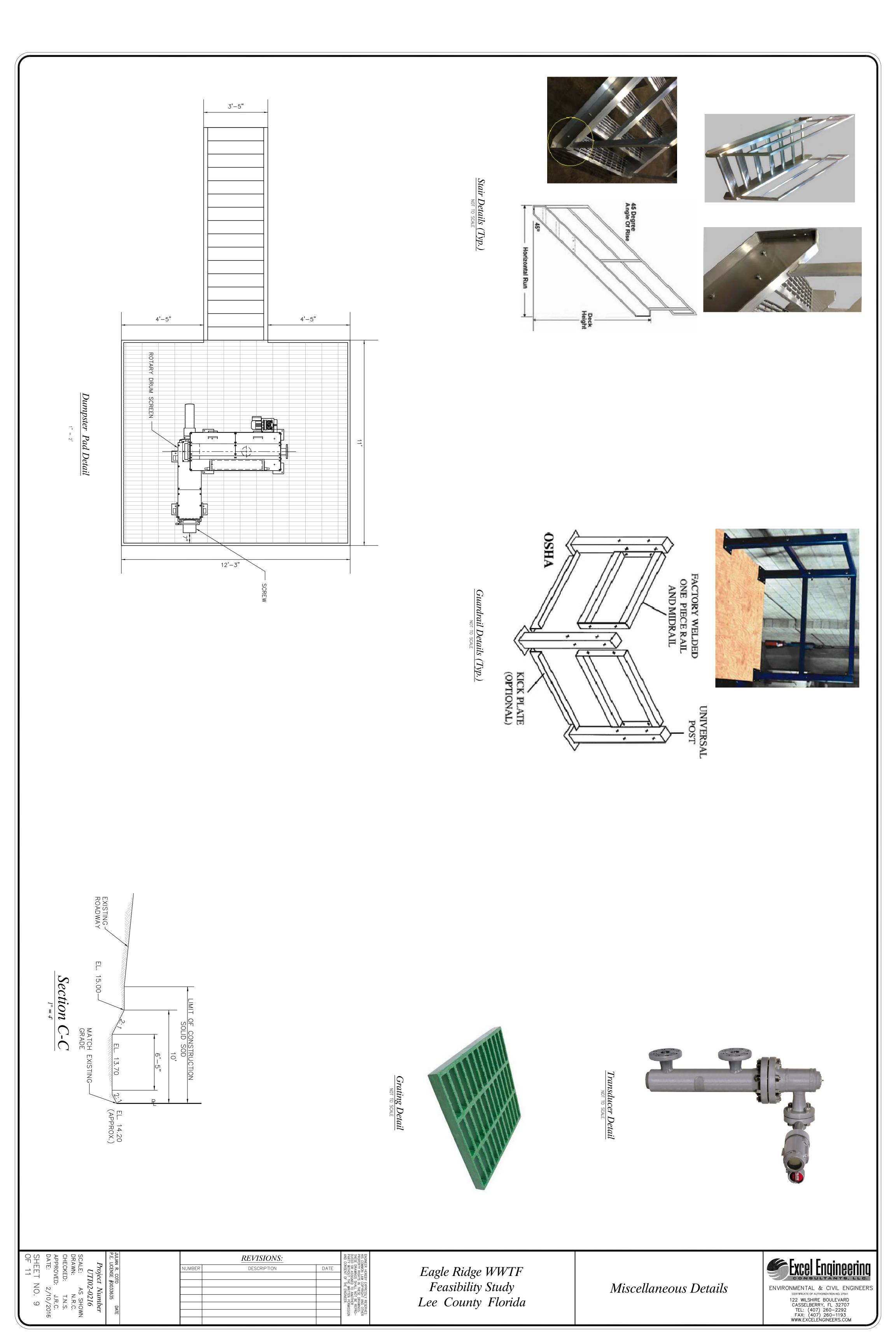
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ISE DRAWNINGS. SHALL NOT BE REPROPED OR ASSIGNED TO ANOTHER
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CONSENT OF THE ENGINEER.

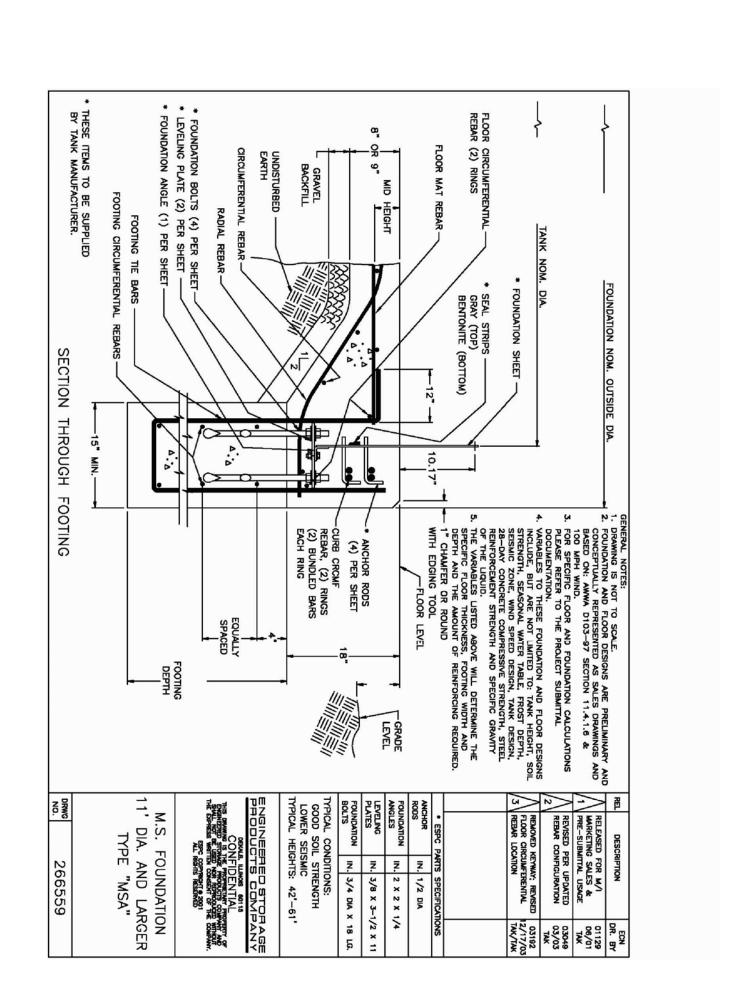
Eagle Ridge WWTF
Feasibility Study
Lee County Florida

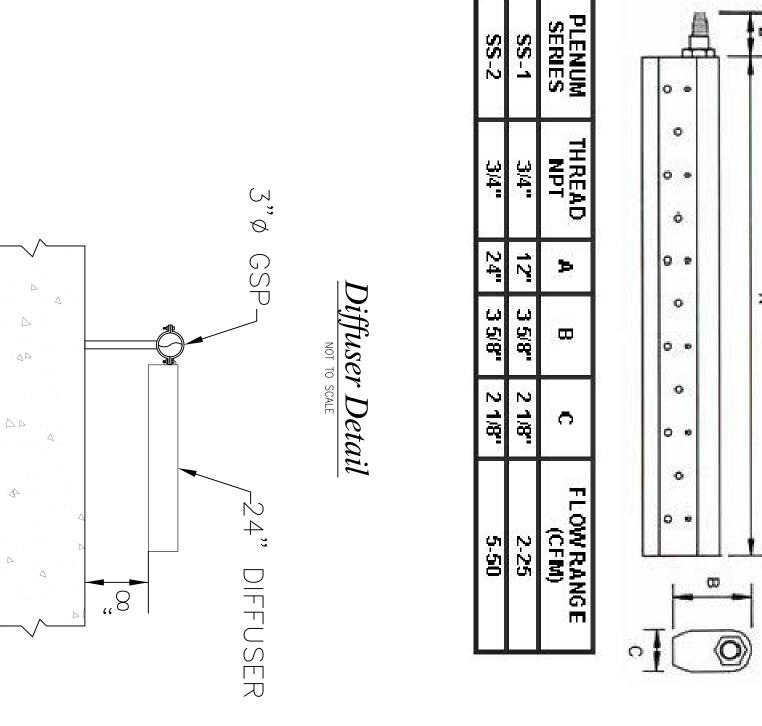
Influent Screen and Surge Tank Elevations



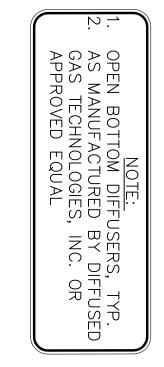


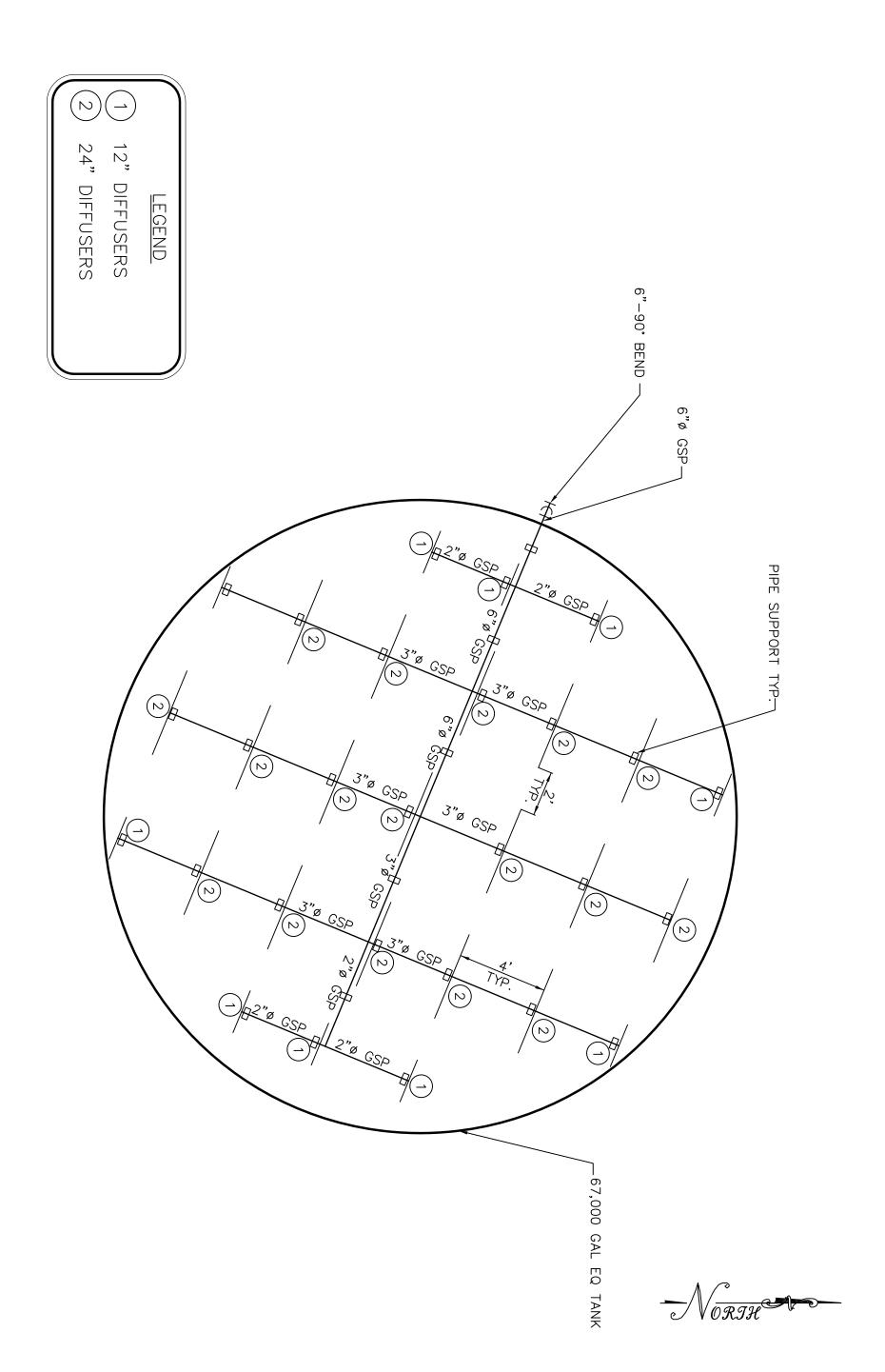


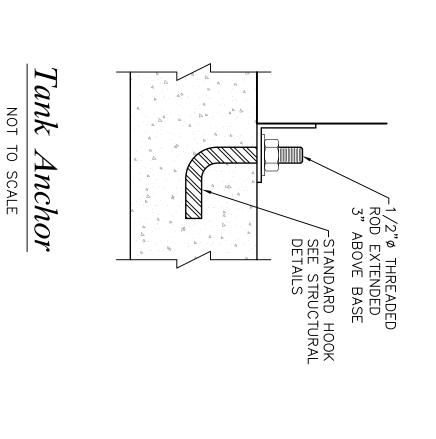




Diffuser Pipe Support Detail







SHEET NO. 10 OF 11	APPROVED: J.R.C. DATE: 2/10/2016	Ö	SCALE: AS SHOWN DRAWN: N.R.C.	UTI02-0216	Project Number	JULIAN R. COTO P.E. LICENSE #0033635		NU

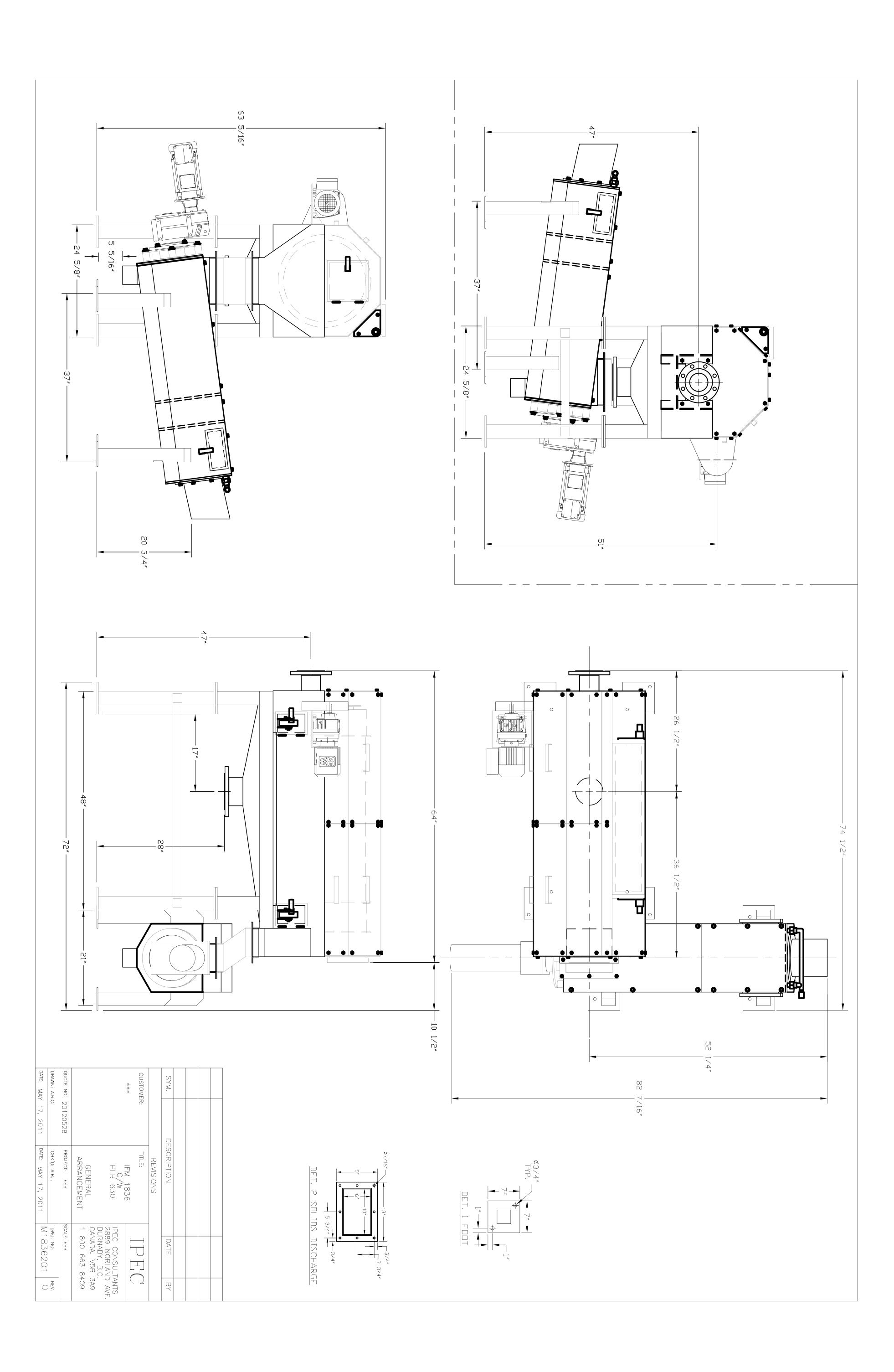
Diffuser Layout Detai

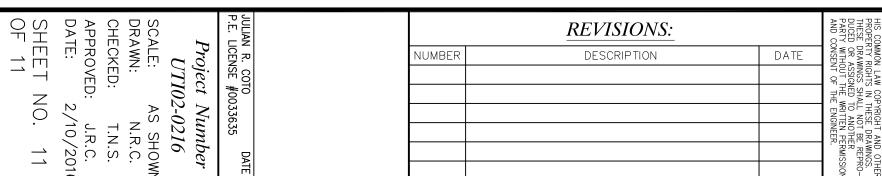
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Eagle Ridge WWTF
Feasibility Study
Lee County Florida

Tank Details







Eagle Ridge WWTF Feasibility Study Lee County Florida

ENVIRONMENTAL & CIVIL ENGINEERS

CERTIFICATE OF AUTHORIZATION NO. 27541

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