Owner

LEGACY LAND LLC

2300 JETPORT DR

REGAL MARINE INDUSTRIES,

ORLANDO, FL 32809-7800

Civil Engineer

ORLANDO. FL 32803-3251

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Architect

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DEWBERRY ENGINEERS, INC. 131 WEST KALEY STREET

CONTACT: WILLIAM HINKLE, PSM

CONTACT: GALEN K. BELL, PSM

DEWBERRY ENGINEERS, INC.

CONTACT: REINARDO MALAVE, PE

109 EAST CHURCH STREET, STE. 150

PHONE: 407.447.9219 **CONTACT: PAUL KUCK**

MARKETING BUSINESS ASSOCIATES LTD,

800 NORTH MAGNOLIA AVENUE, SUITE 1000

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REGAL MARINE

EXPANSION

Belle Isle, Florida

Dewberry

Dewberry Engineers, Inc

800 N. Magnolia Avenue Suite 1000 Orlando, FL 32803 407.843.5120

ADDED/REVISED SHEETS DESCRIPTION APPROVED BY CHECKED BY

CRESCENT PARK

ORLANDO INTERNATIONAL

AIRPORT

SECT 07, T 25 S, R 30 E

SITE: REGAL MARINE

LOCATION MAP

NOT TO SCALE

COVER SHEET

50150413

POTABLE WATER 9150 CURRY FORD ROAD ORLANDO, FL 32825

SANITARY SEWER CITY OF ORLANDO 102 N. ALASKA AVENUE KISSIMMEE, FL 34741 PHONE: 407-246-9018



CONSTRUCTION SET SEPTEMBER, 2022

ORANGE COUNTY UTILITIES PHONE: 407-423-9018 CONTACT: DAVID SHORETTE

SHEET NO.

PROJECT NO.

costs or expenses paid or incurred by owner in taking such action shall be borne by

contractor, and contractor agrees to protect, hold harmless and indemnify owner

whether in storage on or off the site, under the care, custody or control of the

The contractor shall erect and maintain, as required by existing conditions and

progress of the work, all reasonable safeguards for safety and protection, including

posting danger signs and other warnings against hazards, promulgating safety

regulations and notifying owners and users of adjacent utilities of the existence of

21. All damage or loss to any property referred to in herein caused in whole or in part

attributable in whole or in part, to the fault or negligence of the contractor.

22. Until final acceptance of the work by owner, the contractor shall have the charge

23. The contractor shall be responsible for meeting all inspection criteria and

24. The contractor shall control and be responsible for their operations and those of

their subcontractors and all suppliers, to assure the least inconvenience to the

public. The contractor shall maintain free and unobstructed movement of vehicular

traffic and shall limit their operations in relation to the safety and convenience of the

traveling public. Under all circumstances, safety shall be the most important

25. The contractor shall familiarize himself with the policies and guidelines established

by all agencies having jurisdiction for the preservation of all public and private

property. The contractor shall be responsible for all damage or injury to property of

any character, during the execution of the work, resulting from any act, omission,

26. The contractor shall not excavate, remove, or otherwise disturb any material,

27. The contractor should verify the quantities and lengths of materials shown on the

neglect, or misconduct in their manner or method of executing the work, or at

structure or part of a structure which is located outside the lines, grades or grading

sections established for this project, except where such excavation or removal is

plans. Any discrepancy between material callouts and actual shown in plan view is

to be brought to the engineer's attention by the contractor prior to bidding. It is the

by the contractor, a subcontractor, or by anyone for whose acts any of them may

be liable, shall be remedied by the contractor, except damage or loss properly

attributable solely to the acts or omissions of the owner, or the engineer or anyone

and care of and shall bear the risk of injury or damage, loss or expense to any part

thereof, or to any materials stored on site, by the action of the elements or from any

other cause whether arising from the execution or non-execution of the work. The

contractor shall rebuild, repair, restore and make good all injuries or damages to

any portion of the work occasioned by any of the above causes before final

c. Other property at the site or adjacent thereto, including trees, shrubs, lawns

walks, pavements, roadway, structures and utilities not designated for

19. The contractor shall take all reasonable precautions for the safety of, and shall

a. All employees on the work site and all other persons who may be affected

b. All the work and all materials and equipment to be incorporated therein,

provide all reasonable protection to prevent damage, injury or loss to:

against any and all such costs or expenses.

contractor or any of its subcontractors; and

demolition in the course of construction.

hazards and of the safety regulations.

acceptance and shall bear the expenses thereof.

schedules, and signing for said inspections

anytime due to defective work or materials.

provided for in the contract, plans or specifications.

engineer's intention to construct what is shown on the plans.

consideration.

the construction site and made available for review at all times.

Construction Documents."

Tallahassee, Florida 32399-0250.

The standards and specifications as listed herein, the geotechnical report(s),

boundary and topographic survey(s), and required permits are hereby incorporated

10. If items appearing to be historical or archeological artifacts are discovered at any

time during construction within the project limits, immediate notification shall be

provided to the owner, the engineer, and the Bureau of Historical Preservation,

Division of Historical Resources R.A. Gray Building, 500 S. Bronough St.

Contractor shall familiarize himself with the site, including all surface and

subsurface conditions, the work required and all other conditions that may effect

The location of existing utility services, facilities, and structural features shown on

these plans have been determined from the best information and are provided for

the convenience of the contractor. The engineer does not guarantee the accuracy

or the completeness of the location information provided. Any inaccuracy or

omission in such information shall not relieve the contractor of his responsibility to

protect the existing features from damage or unscheduled interruption of service.

Should a discrepancy arise between these plans and actual field conditions, which

would appreciably affect the execution of these plans, the contractor shall stop all

The contractor shall give all notices and comply with all laws, ordinances, rules,

regulations and permit conditions bearing on the conduct of the work, as drawn and

specified. If the contractor observes that the drawings and specifications are at

variance therewith, he shall promptly notify the engineer, in writing, and any

necessary changes shall be adjusted, as provided in the agreement for changes in

The contractor shall be responsible for the maintenance of all landscape buffers,

retention and detention facilities until the project has been accepted by the owner.

The contractor shall be responsible to the owner and the engineer for the acts and

omissions of contractor's employees and all his subcontractors and their agents

and employees and other persons performing any of the work under a contract with

All work and furnished materials shall be in reasonable conformity with the lines,

grades, grading sections, cross sections, dimensions, material requirements and

testing requirements that are specified in the contract, plans, details or

The contractor shall be responsible for making all necessary arrangements with

governmental departments, public utilities, public carriers, service companies, and

corporations owning or controlling roadways, railways, water, sewer, gas, electrical,

telephone, and telegraph facilities such as pavements, tracks, piping, wires, cables,

conduits, poles, guys, or other similar facilities, including incidental structures

connected therewith that are encountered in the work in order that such items may

Prior to commencing work, the contractor shall furnish, erect and maintain all

barricades, lights, warning signs, and pavement markings for hazards and the

control of traffic through the construction zone in conformity with the all agencies

having jurisdiction standards to effectively prevent accidents at all locations where

9. In the event the contractor discovers any errors or omissions in the plans he shall

construction causes an obstruction to the normal flow of traffic or creates a hazard

All disturbed areas shall be returned to equal or better condition.

CONTRACTOR RESPONSIBILITIES

the successful completion of the job prior to commencement of work.

construction and notify the engineer immediately.

be properly supported, protected or located

immediately notify the owner or owner's agent.

in any way to the public.

the work.

the contractor.

along with the plans by Dewberry Engineers, Inc. as the complete "Site Civil

- NFPA 241 Safeguarding Construction, Alteration, and Demolition
- 2. Prior to construction, the contractor shall clearly designate the limits of construction on-site. The contractor shall not perform any work outside the limits of construction
- 3. The contractor shall be extremely cautious when working near trees that are to be saved, whether shown in the plans or designated in the field.
- 4. All practical and necessary effort shall be taken during construction to prevent
- 5. Any proposed cut or fill material to be removed or placed within the drip line of specimen trees to remain, including trenching for proposed improvements such as utilities, will require the advanced pre-treatment of each impacted tree by a qualified arborist or at the direction of the landscape architect to minimize the
- 20. The contractor shall comply with all applicable safety codes and with all applicable potentially adverse impacts of construction. laws, ordinances, rules, regulations and lawful orders of any public, quasi public or Tree protection barricades or equivalent protective measures will be constructed other authority having jurisdiction for the safety of persons or property or for their according to the local jurisdiction's criteria for trees to remain within the limits of 1. protection against damage, injury or loss, or designed to protect the environment.
 - In areas requiring fill material, the contractor shall strip or otherwise remove all vegetation such as brush, heavy sods, heavy growth of grass, decayed vegetation matter, rubbish and any other deleterious material before embankment is placed. Immediately prior to the placing of fill material, the entire area upon which fill is to be placed, shall be scarified in a direction approximately parallel to the axis of fill. The geotechnical engineer shall approve the area prior to the placement of fill.

PAVING, GRADING & DRAINAGE

- employed by them, or for whose acts any of them may be liable, and not properly 1. The contractor shall perform all work pertaining to drainage including excavation of stormwater management ponds or equivalent facilities prior to the commencement of other work included in these plans.
 - The contractor shall stake all improvements using the record plat. The contractor shall verify with the engineer that the plat is correct prior to any construction. If a plat does not exist, contractor is to verify use of the survey for layout with engineer prior to starting work. It is the contractor's responsibility to completely stake and check all improvements to insure correct positioning, both horizontal and vertical, including minimum building setbacks prior to the installation of any improvement. Any discrepancy between platted information and the plans shall be reported to the engineer immediately and in writing.
 - Prior to initiating any excavation (including but not limited to tunnels, ditches, storm water ponds, canals, artificial lakes) contractor shall install fences and take all other reasonable and prudent steps to insure that access to excavation by 5. unauthorized personnel is prevented.
 - All drainage structures are to be traffic bearing unless otherwise noted. All precast
 - circular structures shall be constructed with a minimum 5-inch wall thickness. All proposed paving surfaces in intersections and adjacent existing sections shall be graded to drain positively in the direction shown by the proposed grades and flow arrows on the plans and to provide a smoothly transitioned driving surface for vehicles with no sharp breaks in grade, and no unusually steep or reverse cross slopes. Approaches to intersections and entrance and exit grades to intersections may require minor local field adjustments should actual conditions vary from the surveyed information the design was based upon in order to accomplish the intent of the plans. In addition, the standard crown will have to be changed in order to drain positively in the area of intersections. It is the contractor's responsibility to accomplish the above and consult the engineer as needed to make any and all required interpretations of the plans or give supplementary instructions should the intent of the plans be unclear.
 - Construction of roadways shall meet the minimum standards and specifications of

- respective local agency(s) having jurisdiction (city or county) Director of Public Works and the jurisdiction's engineer. In addition, any work within a state road right-of-way must be approved and coordinated with the FDOT through the local maintenance office for each district.
- Prior to performing any work within any public or utility right-of-way, contractor shall obtain authorization and permit from all jurisdictions responsible for such right-of-way.
- said ROW for their approval. This plan must meet the minimum requirements as outlined in the "Manual On Uniform Traffic Control Devices" published by the U.S. Department of Transportation, Federal Highway Administration and the Florida Department Of Transportation Index 600; specifically 601, 602 and 603.

UTILITIES

- The existing utilities shown are approximate. The contractor shall field locate all existing utilities as to size, location, and elevation. The contractor shall notify the engineer of any and all conflicts prior to beginning construction.
- The contractor shall be responsible for locating and verifying size, type, location, and elevation of all existing utilities prior to construction and notifying the involved utility providers to make any necessary arrangements for relocation, disruption of service, or clarification of activity regarding said utility. The contractor shall use extreme caution when crossing an underground utility, whether shown on these plans or field located. The respective utility providers shall relocate utilities that interfere with the proposed construction and the contractor shall cooperate with the utility providers during relocation operations. Any delay or inconvenience caused by the involved utilities shall be incidental to the contract. The contractor shall
- conform to Florida Statute Chapter 556 and the Sunshine State One-Call of Florida. Contractor shall notify all utility owners and the Sunshine Underground Utilities Notification Center at 1-800-432-4770 at least 72 hours prior to start of work. Contractor is responsible for continual maintenance of all utility locates, flags, marking, et cetera through the entire duration of construction.
- Utility services to the proposed building(s) shall terminate 5 feet outside of the building unless otherwise noted. Prior to construction, the contractor shall review building architectural and plumbing plans to verify proper continuation of the proposed utilities for location, alignment and elevation(s) for each service to the building(s). Should utility service laterals shown on the site civil construction plans not correspond with building architectural or plumbing plans the contractor shall notify the engineer immediately.
- The power distribution system shall be designed and installed by the power service provider. The contractor shall coordinate with said power service provider to insure proper construction phasing is achieved, and to allow the installation of street crossings, sleeves, conduits, poles, transformers, and other required equipment. It is the owner's responsibility to acquire any necessary easements as a result of the power service provider's design and respective installation locations.
- The telephone, cable TV, data, and/or communication systems shall be designed and installed by their respective service provider. The contractor shall coordinate with said service provider to insure proper construction phasing is achieved, conflict free, and to allow the installation of street crossings, sleeves, conduits, poles, and other required equipment. It is the owner's responsibility to acquire any necessary easements as a result of the service providers' designs and respective
- It is the contractor's responsibility to properly coordinate the final designs and subsequent installations of all service providers' utilities and their minimum criteria as set forth therein for items such as maintaining the minimum separation distances between the various utilities.

- Unless otherwise noted, the top 24 inches of all utility trenches within roadways i maximum 12" lifts, shall be compacted to 98% of the modified proctor maximur density; all other utility trenches shall be compacted to 95% of the modified procto
- 9. The contractor shall notify the applicable utilities construction department for the corresponding local utility provided a minimum of 48 hours prior to starting any
- 10. Pipe alignment, deflection, and integrity testing shall be performed by the 'lamping' method and utilizing video inspection. The contractor shall perform internal
- video inspection for the gravity sewer to check pipe alignment and deflection. . All fire hydrants and apparatus must comply with FFPC Section 3-5.6 and Section

POTABLE WATER

- All PVC watermains 2" or less shall be SDR21 (200 psi) unless otherwise noted.
- Water mains shall comply with AWWA standards. All PVC pipe 3 to 12 inches shall be AWWA C900 DR18; all PVC pipe 14 inches and larger shall comply with AWWA C905 DR25. All water mains shall bear the NSF logo and shall be color-coded or marked using blue as a predominant color to differentiate drinking water from other water lines.
- Where ductile iron pipe is required for water mains, it shall conform to ANSI/AWWA A21.51. A minimum thickness for pressure class 350 per ANSI/AWWA shall be supplied. Dip sizes up to 12 inches in diameter shall be pressure Class 350. Dip sizes 14 inches and larger shall be pressure Class 250.
- All water main fittings, valves, restraints, couplings, pipe, and in general, those materials required for installing the water supply system, shall comply with the minimum material standards, ratings and classifications established by the respective utility provider. All water main fittings shall be DIP for all 3" thru 12" PVC and DIP water mains conforming to the requirements of ANSI/AWWA C153/A21.53 and epoxy coated exterior, unless noted otherwise. These fittings shall incorporate
- restraining rings, mega-lugs or other approved equivalent mechanical devices. Ductile iron pipe and fittings shall have a cement mortar interior lining conforming to the requirements of ANSI/AWWA C104/A21.4.
- Valves for potable and raw water mains shall be ductile iron (D.I.) epoxy coated gate valves or butterfly valves. See specifications for details.
- All polyethylene pressure pipe and fittings 4-inch and larger shall conform to AWWA Standard C906-99 (DR11) Pressure Class 160 and ASTM Standard D3350 D2837 PE 3408.
- All polyethylene pipes for service tubing shall conform to AWWA Standard C901 (DR9) Pressure Class 200 and Standard D2737 PE 3408.
- Foundation (NSF) seal of approval for potable water service.
- 10. PVC pipe less than 2-inches shall conform to ASTM D1785. Threaded pipe and fittings shall be Sch. 80 and conform to ASTM D2464. Unthreaded pipe and fittings shall be Sch. 40 with solvent-cemented joints. Cemented joints and fittings shall comply with ASTM D2466 and D2855.
- 2", 21/2" and 3" PVC pipe shall conform to ASTM D2241. Pipe shall be furnished in 20-foot lengths, shall have dimension ratio (DR21) and a water pressure rating of 200 psi.
- 12. Pipe measurements shall be center to center of fittings or valves.
- 13. Contractor shall provide temporary thrust restraints, bracing, test plugs and/or other devices necessary to successfully complete pressure testing of all pressure piping systems, ancillary to the work.
- 14. Automatic air relase/vacuum air release valves for underground instillation shall conform with 62-555.320(21)(b)FAC & RSWW 8.4.2.
- and submit a maintenance of traffic plan to the local agency having jurisdiction over 15. All buried piping specified for pressure service shall be provided with restraining
 - devices at all directional changes, unless noted otherwise. 16. All fasteners shall be manufactured of non-corrosive materials.
 - 17. Locations and dimensions of existing rights-of-way and easements are based o the best available information. The contractor shall verify all the limits of rights-of-way and easements in order to avoid encroachments.
 - 18. The contractor shall repair or replace with equal materials in kind or as directed by the owner or inspector any items disturbed or damaged by the utility construction of its related activities for items such as but not limited to, paving, stabilized earth,
 - 19. Contractor shall paint the hydrants according to fire department requirements. 20. Where applicable fire hydrants shall be installed within the ROW.
 - 21. Proper backflow prevention assemblies shall be provided in accordance with Rule 62-555.360, F.A.C. and AWWA Manual M14, "Recommended Practice forBackflow Prevention And Cross Connection Control" (latest editions) as incorperated in rule 62-555-330 FAC. The method of connection to the existing active main should be chosen to encoure that the pressure does not drop below 20psi otherwise a boil water notice is required to be issued by the utility supplying the water.
 - . Contractor shall coordinate with agency having jurisdiction and water service provider to have water samples taken at locations as specified by their minimum standards and as outlined in the Florida Department Of Environmental Protection permit for construction of the water distribution system (if permit is required). Documentation of the minimum testing results such as bacteriological reports with residual CL levels shall be submitted to the engineer within 4 days from the day of sample. It is the contractor's responsibility to review and verify the results as passing prior to submittal to the engineer.
 - . All water mains shall be hydrostatically tested and disinfected in accordance with AWWA Standards, latest revisions. Hydrostatic testing for PVC mains shall be 150 psi for minimum of 2 hours and meet AWWA Standard C605/M23. Ductile iron mains shall be tested at 150 psi for 2 hours per AWWA C600. All new mains shall be disinfected per AWWA Standard C651. Bacteriological tests for 2 consecutive days shall be approved prior to placing system into service.
 - All water mains shall have an "Early Warning" protection tape installed continuously along the entire length. The protection tape shall be installed during the backfilling 6 to 12 inches below finish grade directly over the pipe and be continuously marked with "Caution - Water Main Buried Below". The tape shall have an embedded metallic detectable strip and be blue in color for potable water.
 - The contractor shall submit shop drawings on all equipment and materials for approval to the engineer and water service provider prior to procurement.



Dewberry

Dewberry Engineers, Inc. 800 N. Magnolia Avenue Suite 1000 Orlando, FL 32803 407.843.5120 C.A. #8794

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REVISIONS DESCRIPTION DRAWN BY APPROVED BY

GENERAL NOTES

PROJECT NO. 50150413

SHEET NO.

CHECKED BY

TITLE

PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE

OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY-SEWER. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER, SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6 INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER

4. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

PIPELINE.

SANITARY GRAVITY & FORCE MAINS

- ALL PVC GRAVITY SANITARY SEWER SHALL BE SDR26, UNLESS OTHERWISE NOTED; AND ALL PVC SANITARY SEWER FORCEMAIN 4" THRU 12" SHALL BE C900/DR18, UNLESS OTHERWISE NOTED.
- THE CITY OF ORLANDO ENIGNEERING STANDARDS MANUAL (ESM) REQUIRES CCTV INSPECTION OF THE SANITARY SEWERS.
- ALL PVC SANITARY FORCE MAINS SHALL BE COLOR-CODED OR MARKED USING GREEN AS A PREDOMINANT COLOR TO DIFFERENTIATE THE FORCE MAIN FROM
- MINIMUM SLOPE ALLOWED FOR SANITARY SEWER PIPE SHALL BE 0.40%.

- SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS AS DESCRIBED
- SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THIS PARAGRAPH, CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER 6. REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY(S) AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS, PROPERTY OR THE ENVIRONMENT.

HEREIN.

- 7. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE 7. THE CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL CERTIFY ALL SITE, UTILITY, PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER IN WRITING.
- IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS AS OUTLINED HEREIN, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS OF THE PARAGRAPH WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS
- ALL AREAS USED FOR FUEL STORAGE SHALL HAVE THE PROPERTY OWNER'S PRIOR APPROVAL AND APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE PROTECTION OF GROUNDWATER AND SOIL RESOURCES.

- ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF 4. THE ENGINEER STRONGLY RECOMMENDS THAT THE CONTRACTOR KEEP A DAILY "AS-BUILT" SET OF DRAWINGS WHILE THE WORK BEING DONE IS VISIBLE EXPOSED ACCORDING TO THE CRITERIA OUTLINED HEREIN.
 - 5. THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER, RETEST AND/OR PERFORM ANY ACTION NECESSARY TO ENSURE THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
 - FINAL "AS-BUILT" DRAWINGS FOR POTABLE WATER SHALL CLEARLY INDICATE COMPLIANCE TO MINIMUM SEPARATION DISTANCES OR REQUIRED PIPE UPGRADES. ALL WATER MAIN AND FORCE MAIN PIPE FITTINGS SHALL BE REFERENCED TO AT LEAST TWO VISIBLE REFERENCE POINTS (SWING TIES) AND
 - THE NEAREST DISTANCE TO THE CENTERLINE OF ROAD. AND ROADWAY COMPACTION AND ALL UNDERDRAIN AND PAVEMENT CONSTRUCTION TO DEWBERRY ENGINEERS.
 - ALL PVC WATER MAINS AND PVC FORCE MAINS SHALL BE INSTALLED WITH A SOLID COPPER "LOCATING WIRE" WITH SUFFICIENT GROUNDING POINTS AT MAXIMUM 500 FEET SPACING.

Dewberry

Dewberry Engineers, Inc. 800 N. Magnolia Avenue Suite 1000 Orlando, FL 32803 407.843.5120 C.A. #8794

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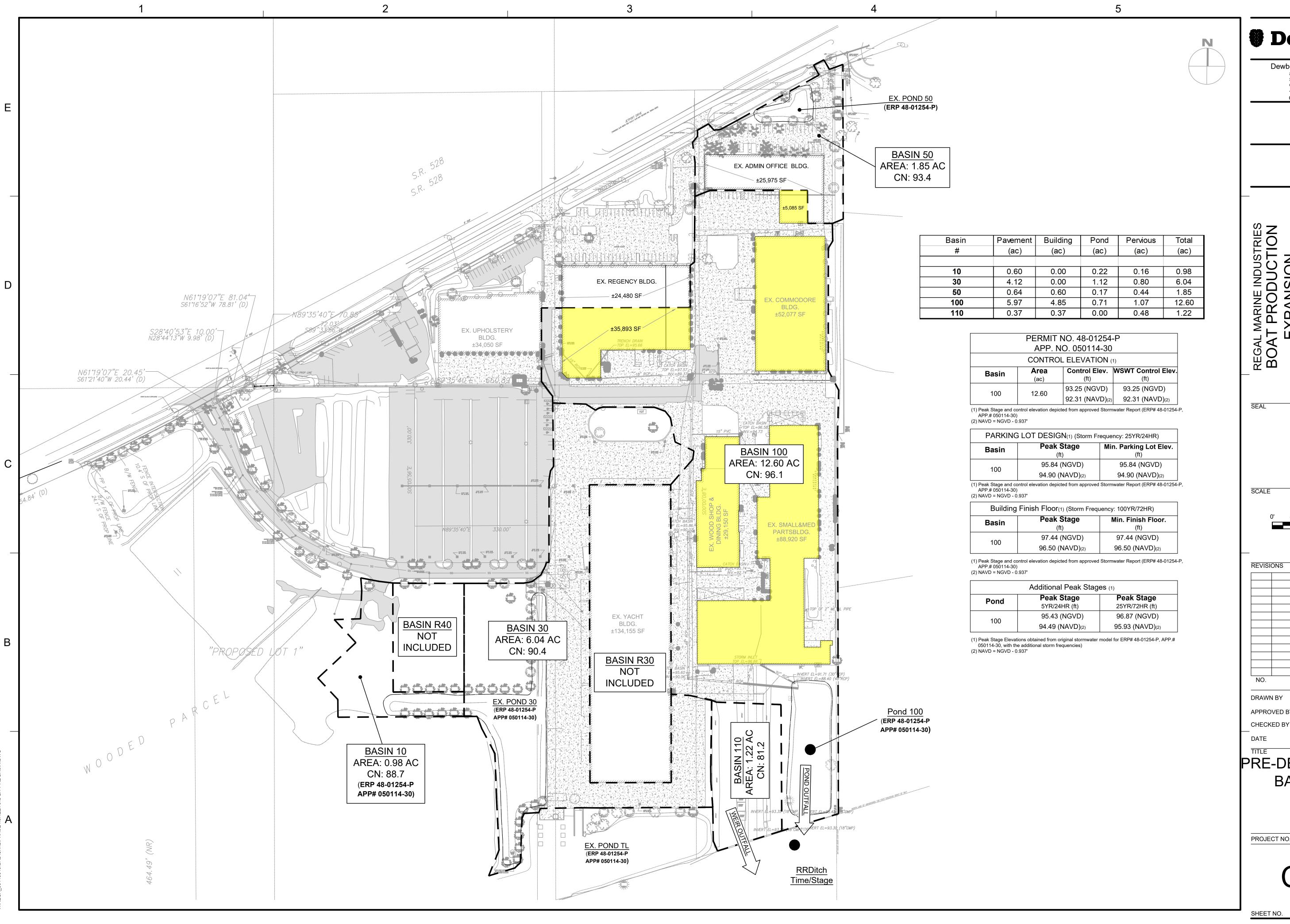
SEAL SCALE

REVISIONS REVISED PER CITY OF ORLANDO COMMENTS 10/4/22 DESCRIPTION DATE DRAWN BY APPROVED BY CHECKED BY

GENERAL NOTES

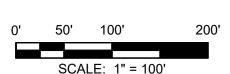
PROJECT NO. 50150413

Call before you dig.



Dewberry

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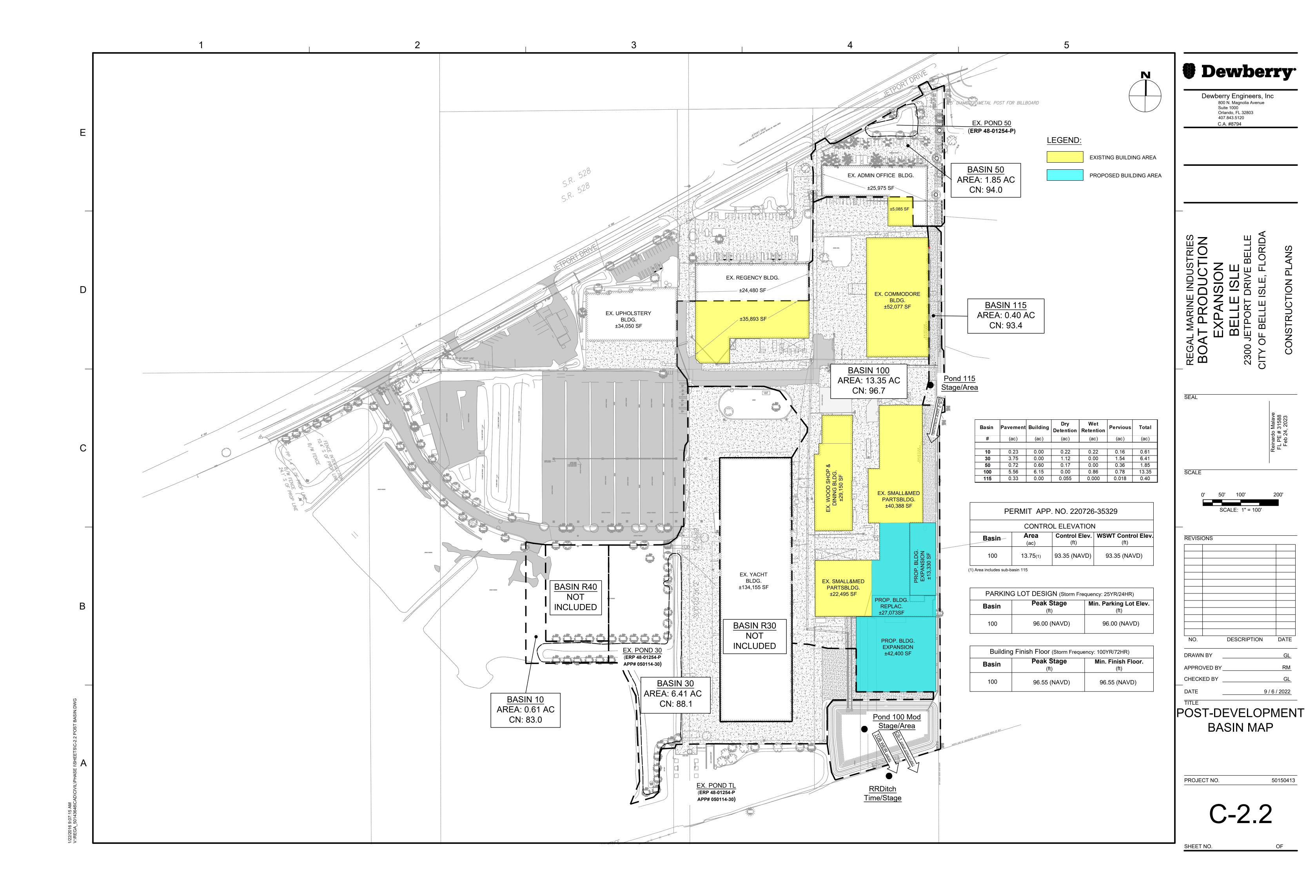


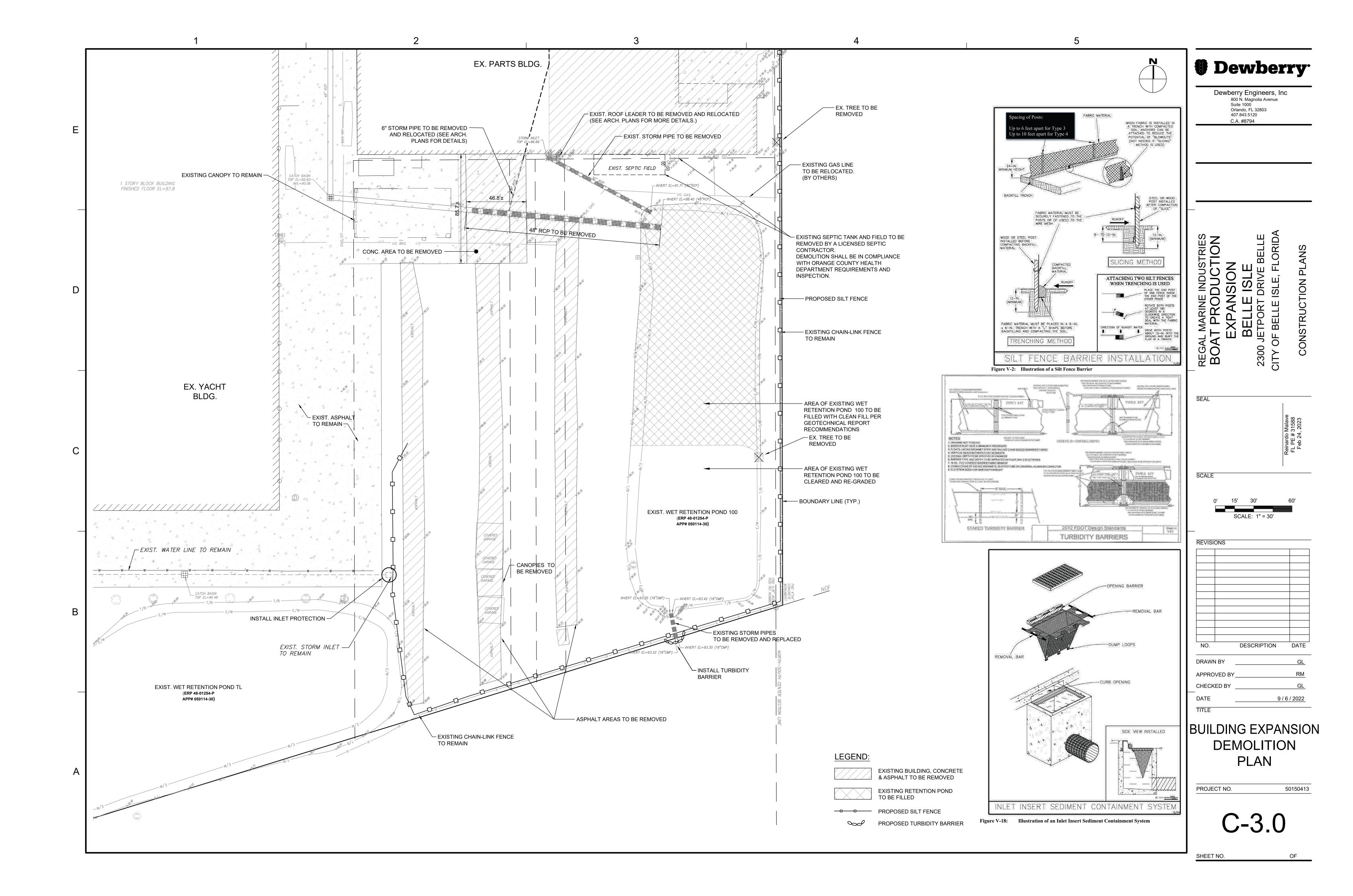
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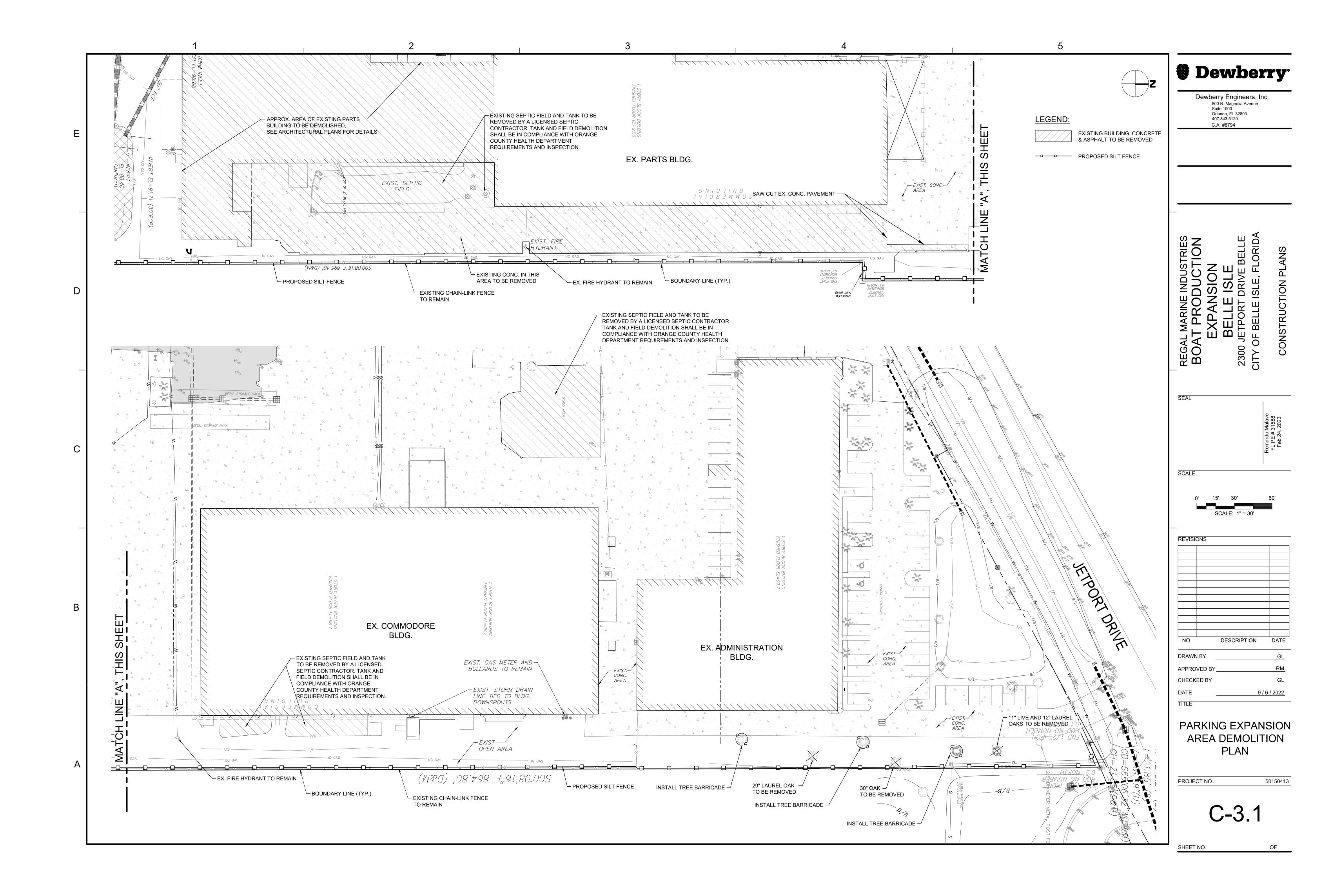
PRE-DEVELOPMENT **BASIN MAP**

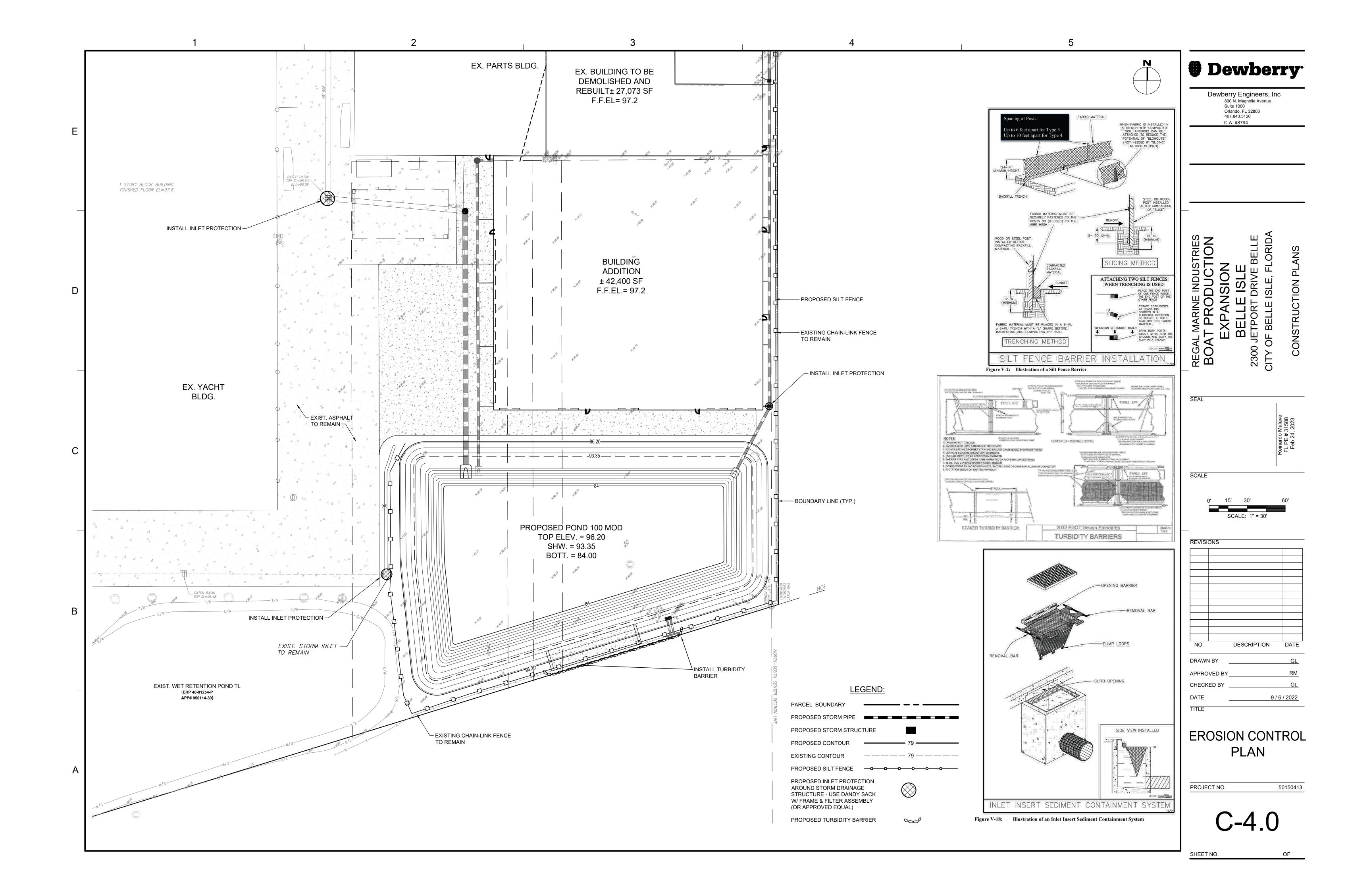
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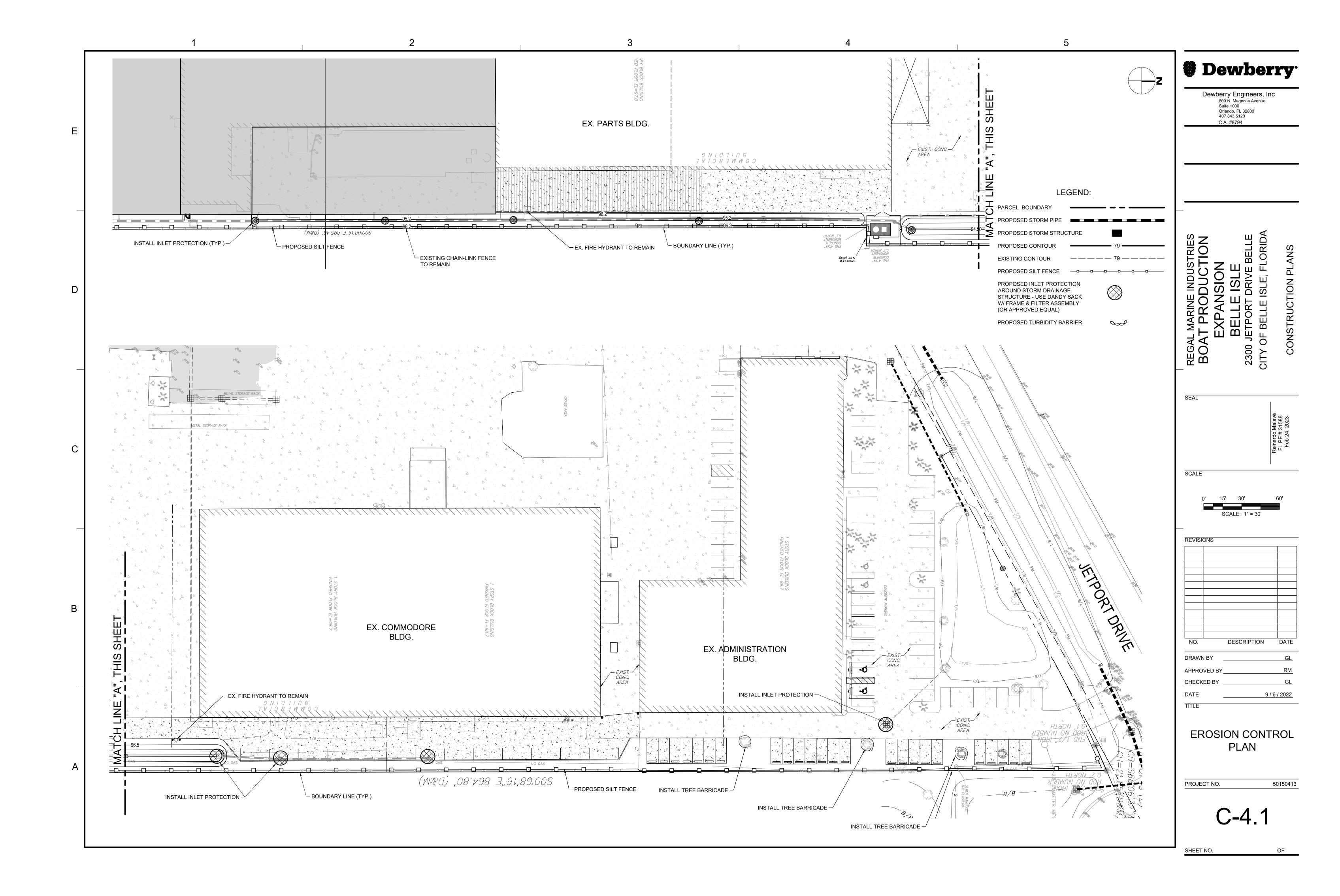
PROJECT NO.











1. DRAINAGE PATTERS (FLOW LINES); SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

2. SLOPES: SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

AREA DISTURBED/ AREAS NOT TO BE DISTURBED: SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

3. LOCATION AND DETAILS OF BMPS: SEE C-4.0 & C-.01

(STRUCTURAL CONTROLS SUCH AS (BUT NOT LIMITED TO) SILT FENCES OR TURBIDITY BARRIERS AND NO- STRUCTURAL CONTROLS SUCH AS (BUT NOT LIMITED TO) ALUM SYSTEMS OR POLYCRLAMIDE)

4. LOCATION OF WETLANDS AND SURFACE WATERS NO WETLANDS, EXISTING POND LOCATED AT THE SOUTHEAST OF PROJECT AREA

5. LOCATION (LATITUDE AND LONGITUDE) OF ALL OUTFALL(S) TO EXISTING POND, OR SURFACE WATER NO WETLANDS

OTHER INFORMATION

LOCATION (ADDRESS): 2300 JETPORT DRIVE, ORLANDO, FL 32809

DESCRIPTION OF CONSTRUCTION ACTIVITIES: CONSTRUCTION IN ONE PHASE. CONSTRUCTION OF ONE (1) WAREHOUSE ADDITION BUILDING WITH PARKING SPACES ADDITION, UTILITIES, AND STORMWATER CONVEYANCE SYSTEM.

CONSTRUCTION SEQUENCE: EROSION PROTECTION INSTALLATION, DEMO/REMOVE EXISTING ITEMS AS SPECIFIED WITHIN CONSTRUCTION LIMITS, CONSTRUCTION OF PROPOSED IMPROVEMENTS.

SOIL TYPES: SEE GEOTECHNICAL REPORT

DEWATERING METHOD AND LOCATION: ANY DEWATERING REQUIRED BY CONTRACTOR IS TO BE PERMITTED BY THE APPROPRIATE AGENCY, DEWATERING FOR THE PROPOSED POND IS PERMITTED THROUGH SFWMD.

BMPS (DESCRIPTION): SEE THIS SHEET

PERMANENT STABILIZATION (DESCRIPTION): SEE C-3.0 & C3.01 TO C-4.0 & C-4.1

PERMANENT STORMWATER MANAGEMENT CONTROL (DESCRIPTION): SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

POTENTIAL POLLUTANTS DURING CONSTRUCTION: SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

INSPECTIONS: CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5". AN RAIN GAUGE WILL BE ONSITE TO MEASURE THE RAINFALL AMOUNTS

CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL IF IT BECOMES NECESSARY TO MEET STATE AND LOCAL STANDARDS

OPERATOR AND/OR RESPONSIBLE AUTHORITY: REGAL MARINE INDUSTRIES

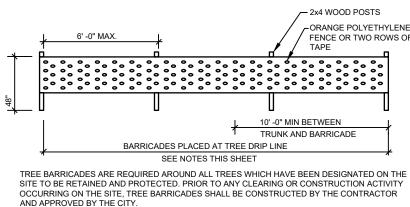
CONTRACTOR: TBD

CONTRACTOR CERTIFICATION

SITE ADDRESS CITY STATE, ZIP

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, FLORIDA STATUTES, THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH THE ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE PRINTED NAME & TITLE OWNER NAME OWNER ADDRESS OWNER TELEPHONE

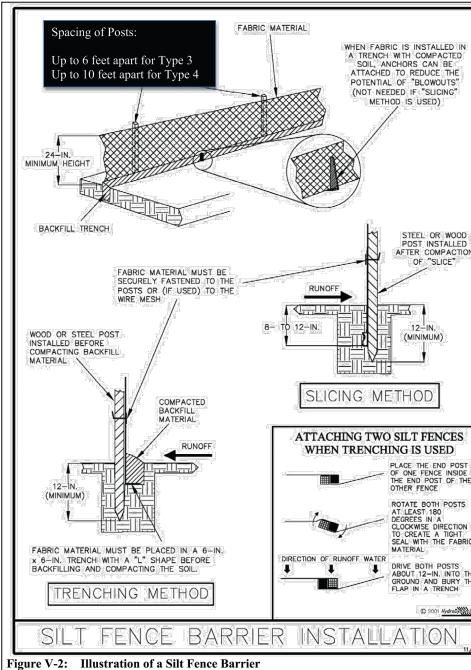


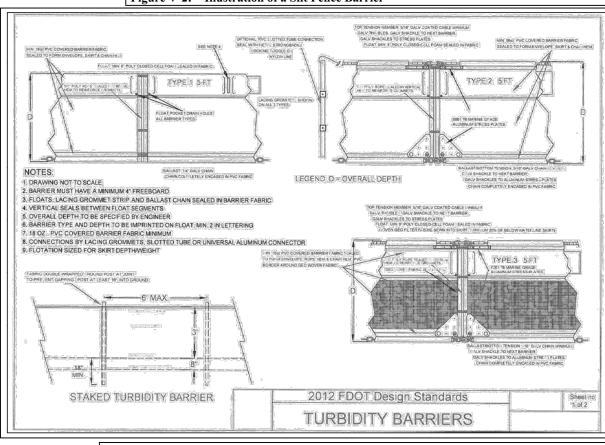
TREE PROTECTION DETAIL

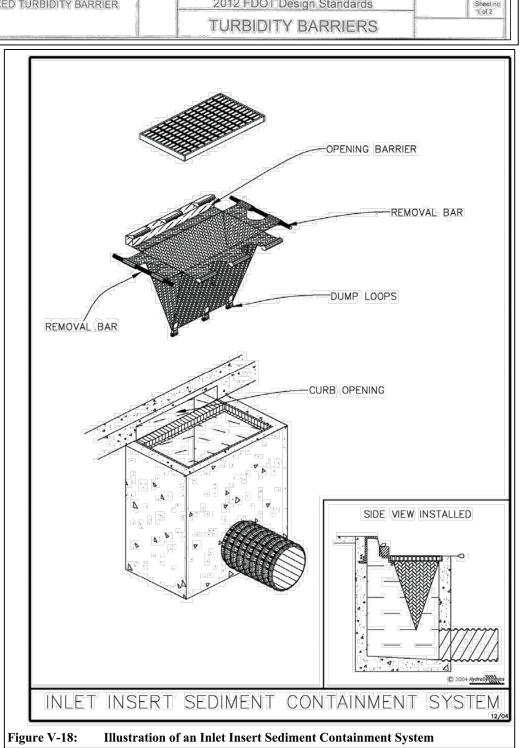
N.T.S.

TREE PROTECTION REQUIREMENTS

- 1. PROTECT DESIGNATED EXISTING TREES SCHEDULED TO REMAIN AGAINST:
- UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS SKINNING AND BRUISING OF BARK
- SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION OR EXCAVATION MATERIALS WITHIN DRIP-LINE
- EXCESS FOOT OR VEHICULAR TRAFFIC PARKING VEHICLES WITHIN DRIP-LINE
- TRENCHING 2. ERECT TEMPORARY WOODEN BARRICADES AS SHOWN ON THIS SHEET (PLAN & DETAIL). BEFORE COMMENCEMENT OF ANY SITE CLEARING, GRADING, OR CONSTRUCTION. FENCE TO BE 4' HIGH MINIMUM WIDTH 2 X 4 POST SET DEEP ENOUGH IN THE GROUND TO BE STABLE WITHOUT ADDITIONAL SUPPORT. HORIZONTAL FENCE SHALL BE ORANGE POLYETHYLENE FENCE OR TWO ROWS OF TAPE. ALL FENCING SHOULD BE AT MINIMUM PLACED AT POINTS NOT CLOSER THAN THE DRIP LINE OF ANY TREES AND SHALL FULLY ENCLOSE ALL TREES SCHEDULED TO REMAIN. NOTHING SHALL BE PLACED INSIDE OF PROTECTIVE BARRICADES INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIAL, MACHINERY, CHEMICALS OR TEMPORARY SOIL DEPOSITS. WHEN PAVING, EXCAVATION OR HARDSCAPE MUST BE ONE WITHIN BARRICADES, BARRICADES SHALL BE MOVED BACK TO A SECONDARY LOCATION AT EDGE OF WORK. EXTRA CARE MUST BE TAKEN AT THIS TIME BY THE CONTRACTOR TO INSURE THAT NO DAMAGE TO THE TREE
- PROVIDE WATER TO TREES AS REQUIRED TO MAINTAIN THEIR HEALTH DURING CONSTRUCTION WORK. WHEN NECESSARY TO CUT ROOT OVER 1" DIAMETER OF TREES TO REMAIN, CUT MUST BE A CLEAN CUT. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT DRYING AND COVER WITH EARTH AS
- SOON AS POSSIBLE 5. NO GRADE CHANGES ARE TO BE MADE WITHIN THE BARRICADES WITHOUT PRIOR APPROVAL OF THE
- MUNICIPALITY'S CURRENT PLANNING MANAGER OR HIS DESIGNATED REPRESENTATIVE. 6. NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE OR NON-DAMAGING NATURE SHALL BE
- ATTACHED TO ANY TREE.
- 7. INTERFERING BRANCHES MAY BE REMOVED BY A QUALIFIED ARBORIST AT THE DIRECTION OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE.
- 8. REPAIR OR REPLACE TREES INDICATED TO REMAIN, WHICH ARE DAMAGED IN THE CONSTRUCTION OPERATIONS, IN A MANNER ACCEPTABLE TO THE OWNER. EMPLOY A QUALIFIED TREE SURGEON TO REPAIR MAJOR DAMAGES TO TREES AND SHRUBS, PROMPTLY, TO PREVENT PROGRESSIVE DETERIORATION CAUSED BY THE DAMAGE.
- 9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF TREES DESTROYED OR SUBJECT TO MAJOR DAMAGE BEYOND REPAIR AS DETERMINED BY THE MUNICIPALITY'S CURRENT PLANNING MANAGER AND SHALL BE REPLACED BEFORE OCCUPANCY UNLESS REMOVAL HAS BEEN PERMITTED BY THE MUNICIPALITY. IF TREES ARE HARMED THROUGH LACK OF PROTECTION OR THROUGH NEGLIGENCE ON THE PART OF THE CONTRACTOR, THE CONTRACTOR SHALL BEAR THE BURDEN OF COST OF REPAIR OR REPLACEMENT.
- 10. PROTECTIVE BARRIER ZONES SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN OR CONSTRUCTION IS COMPLETE, WHICH EVER OCCURS FIRST.
- THE CONTRACTOR SHALL ENGAGE A QUALIFIED ARBORIST WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE FOLLOWING
- CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
- PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED TO
- ACCOMMODATE NEW CONSTRUCTION. • PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.
- CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL
- DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK. IF TREES ARE RELOCATED, CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM.



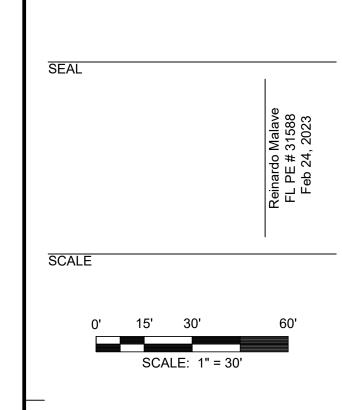


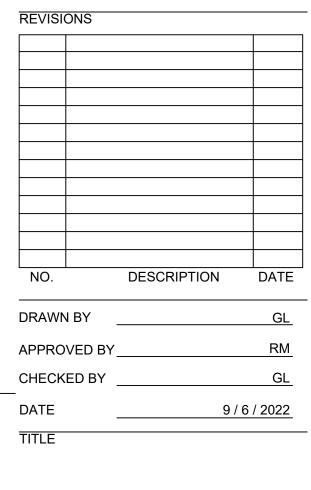


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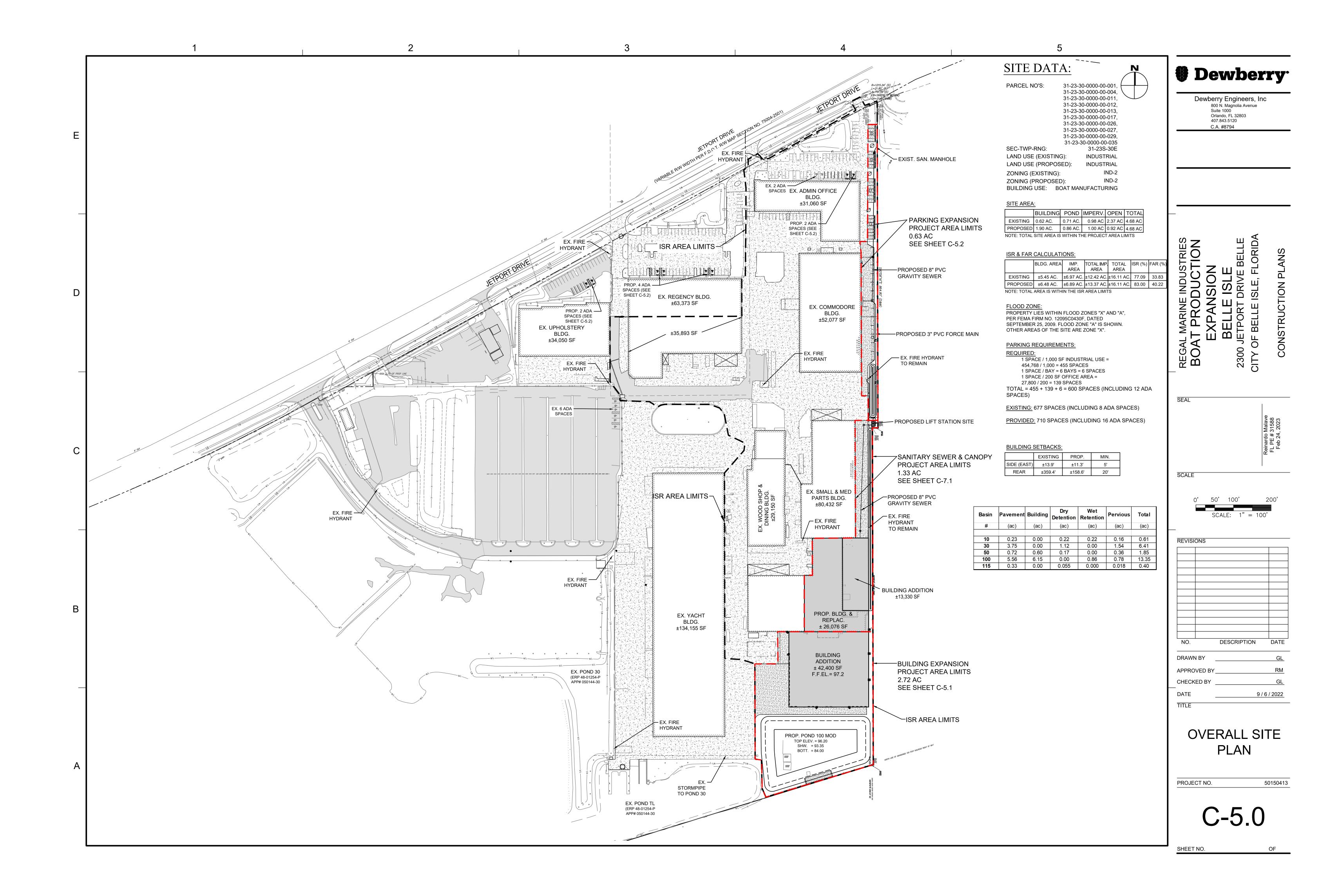
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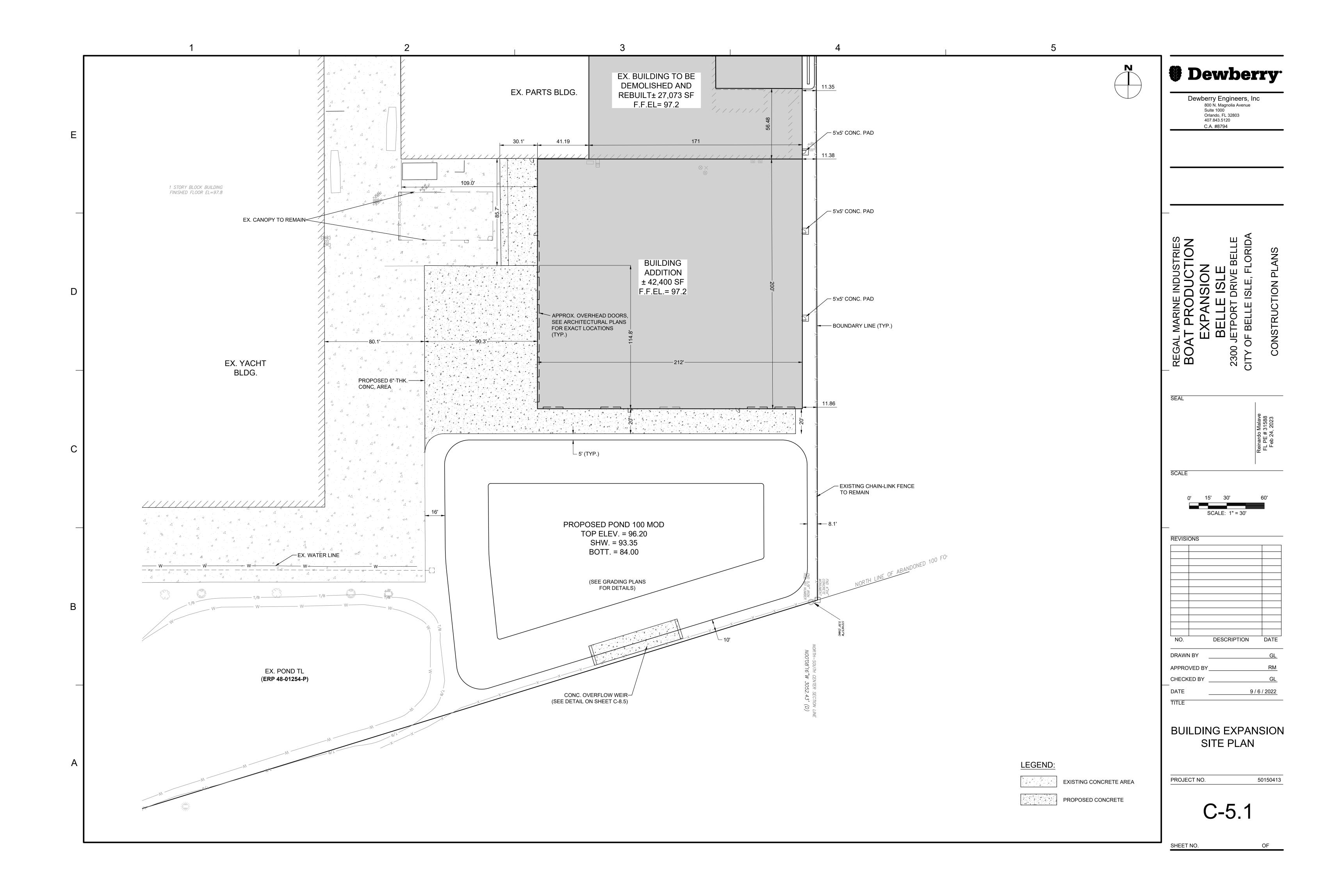


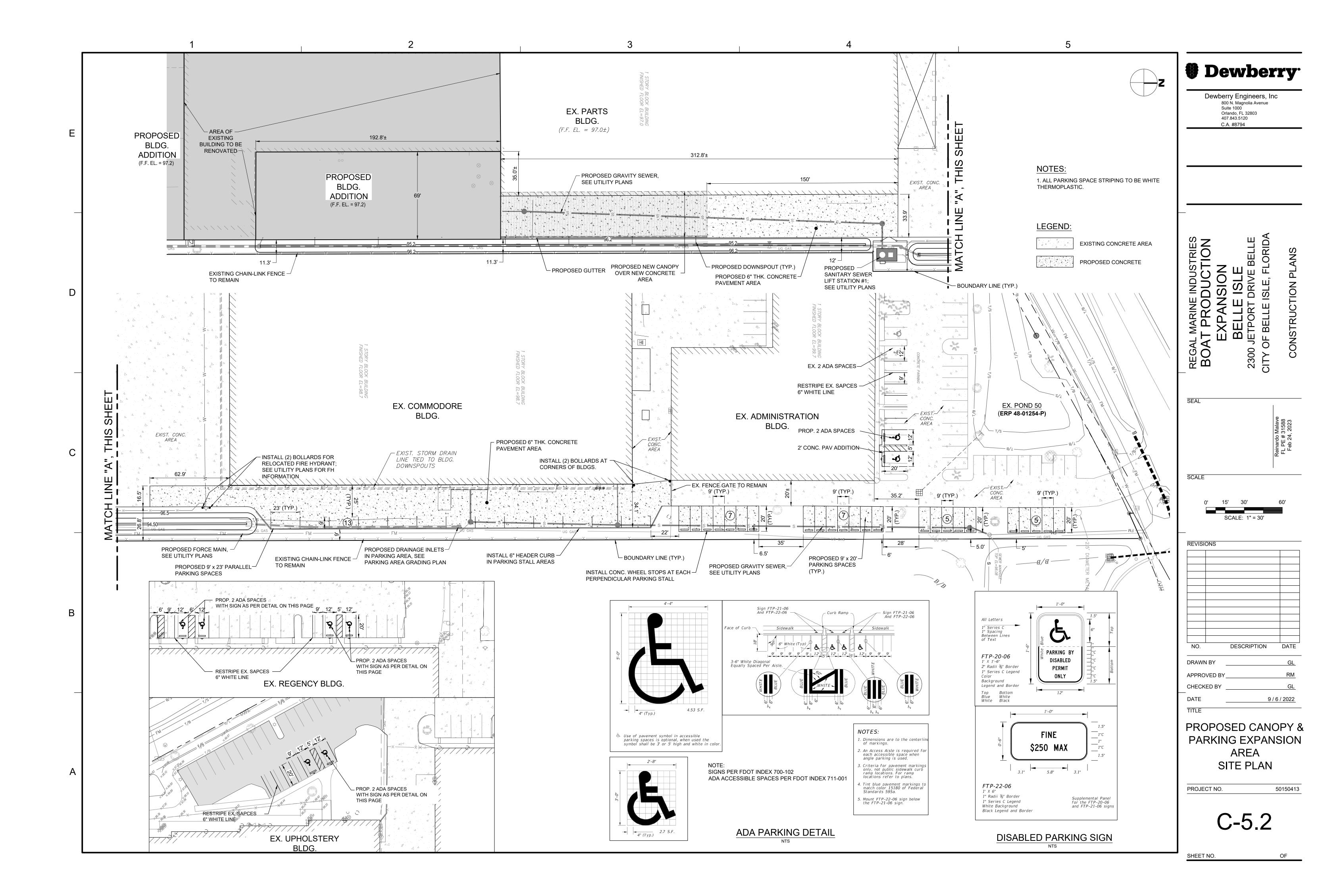


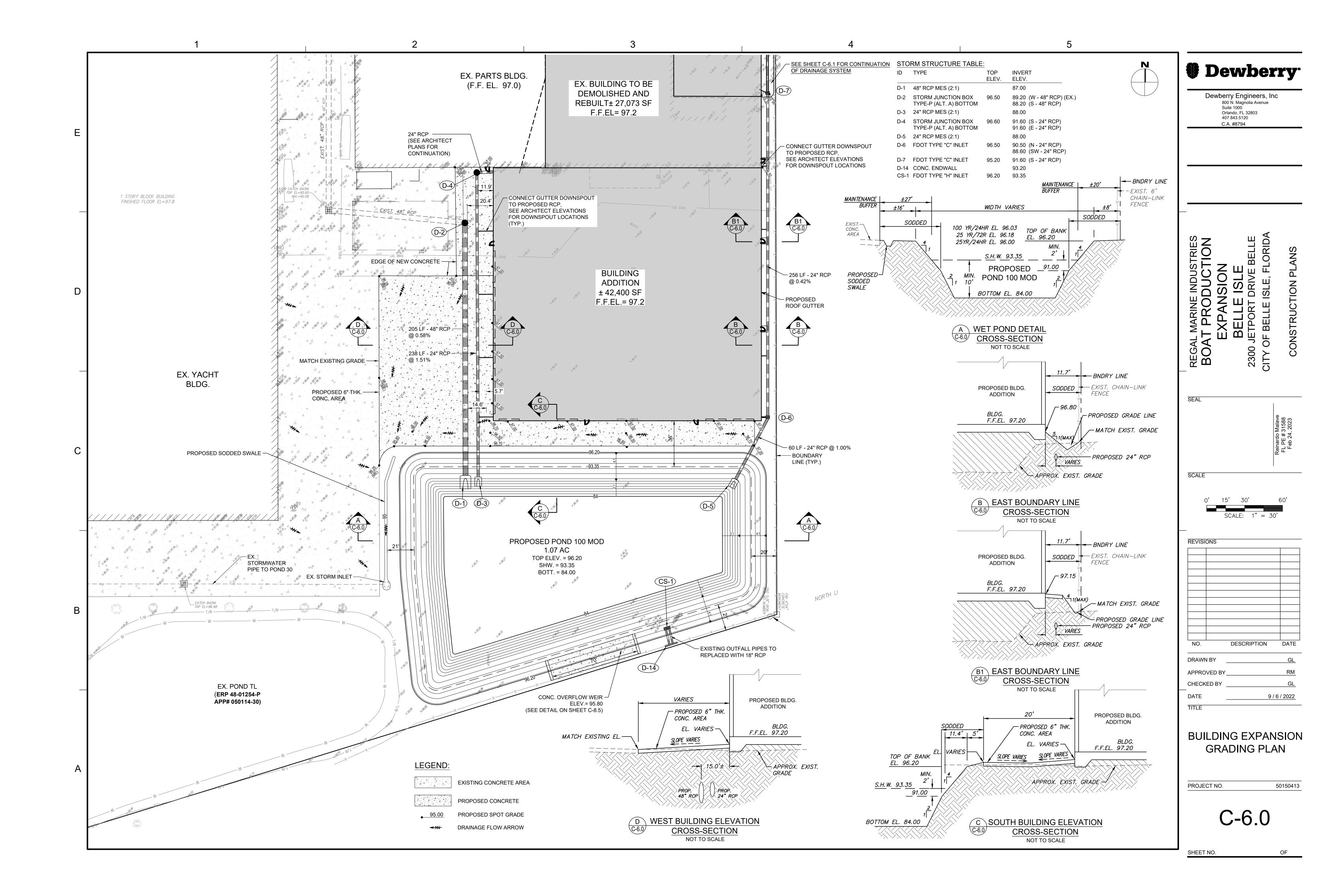
EROSION CONTROL DETAILS

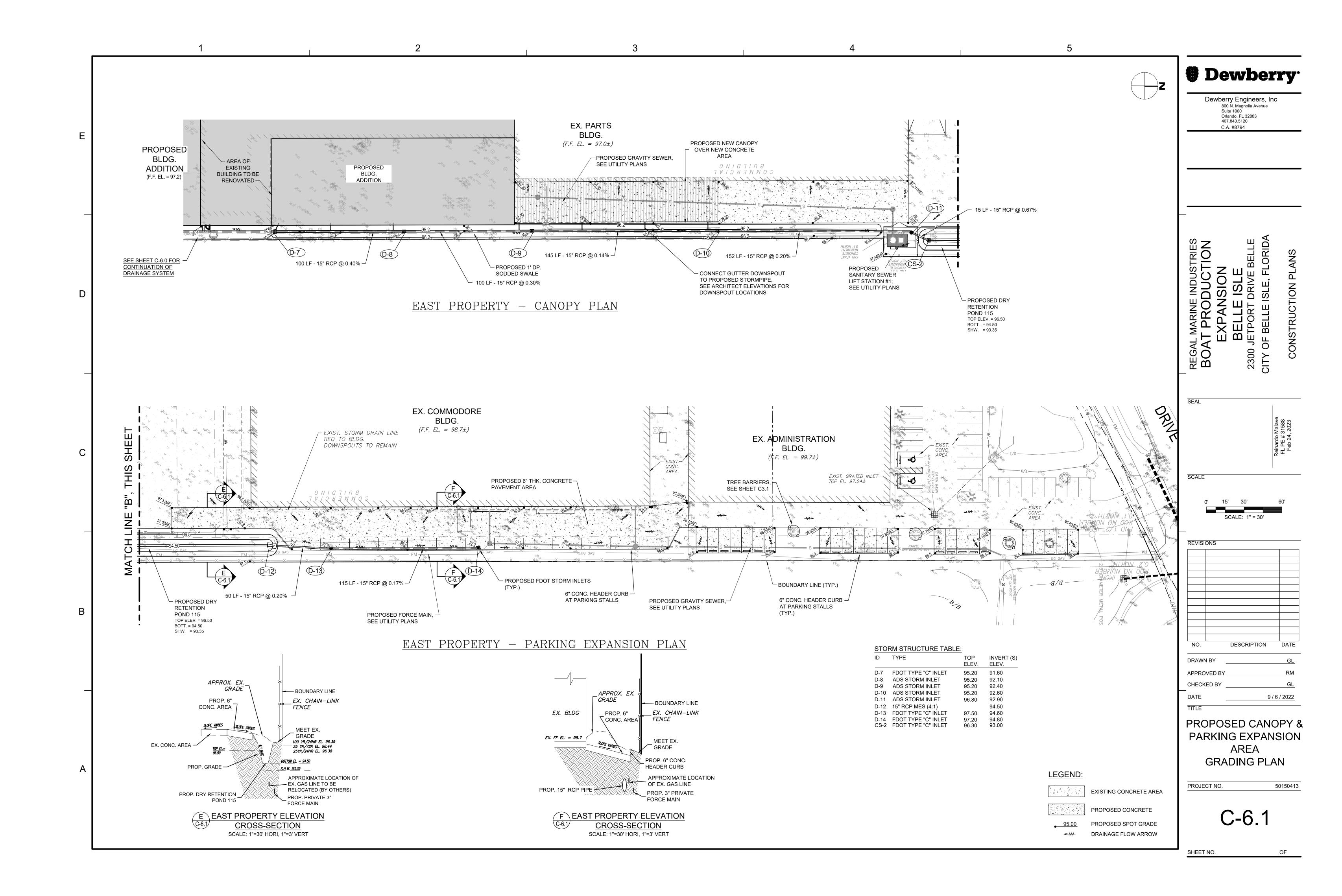
PROJECT NO. 50150413

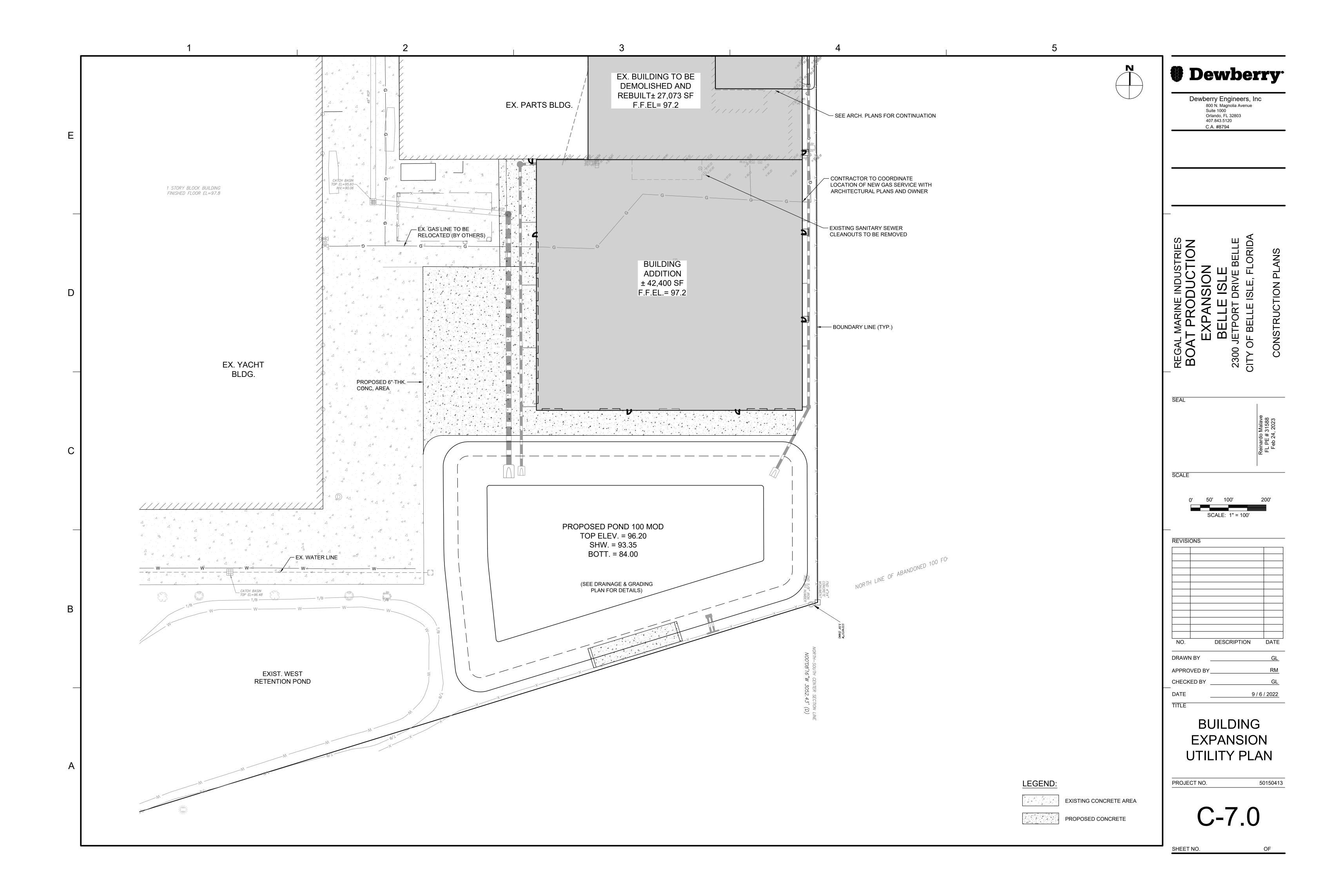


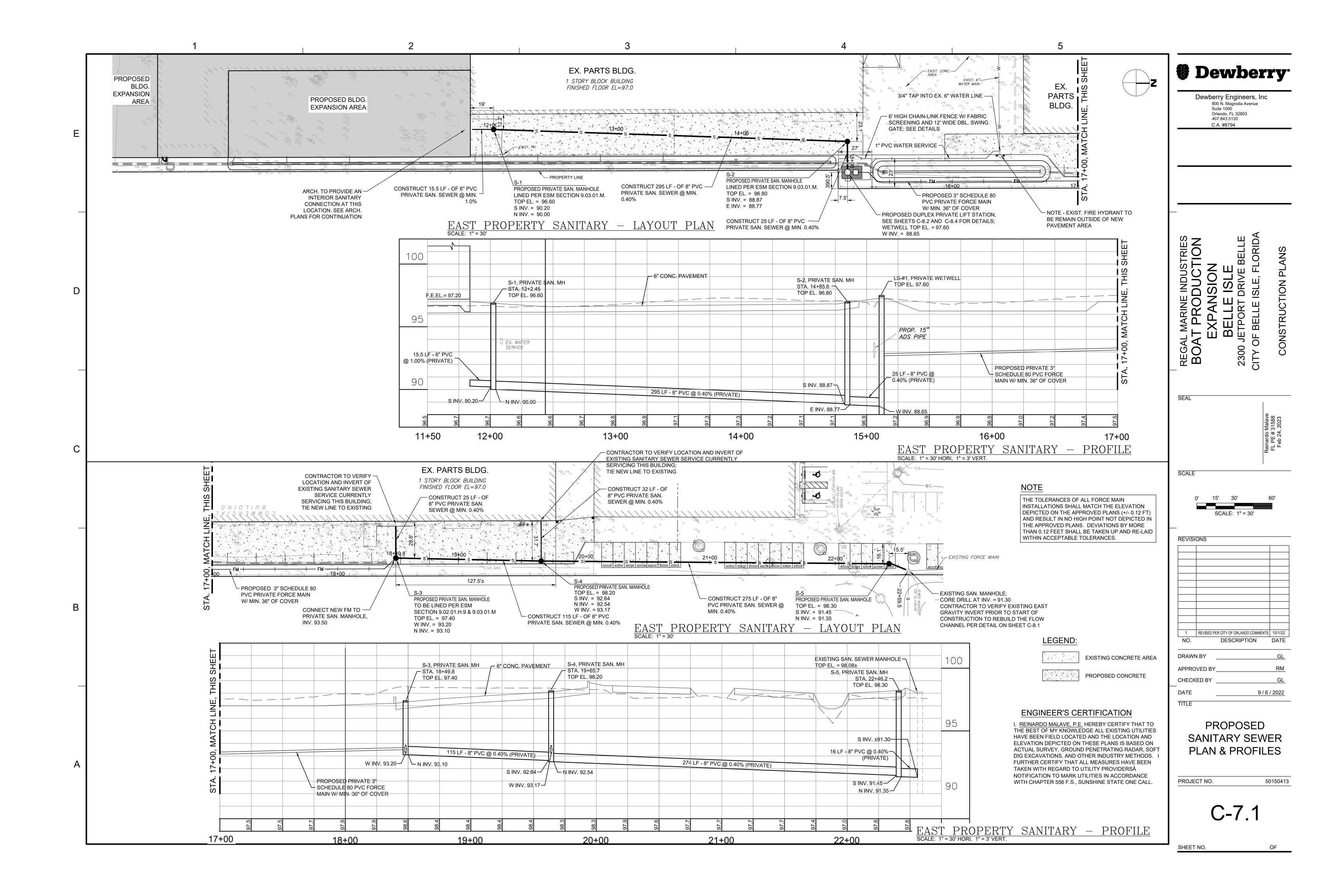


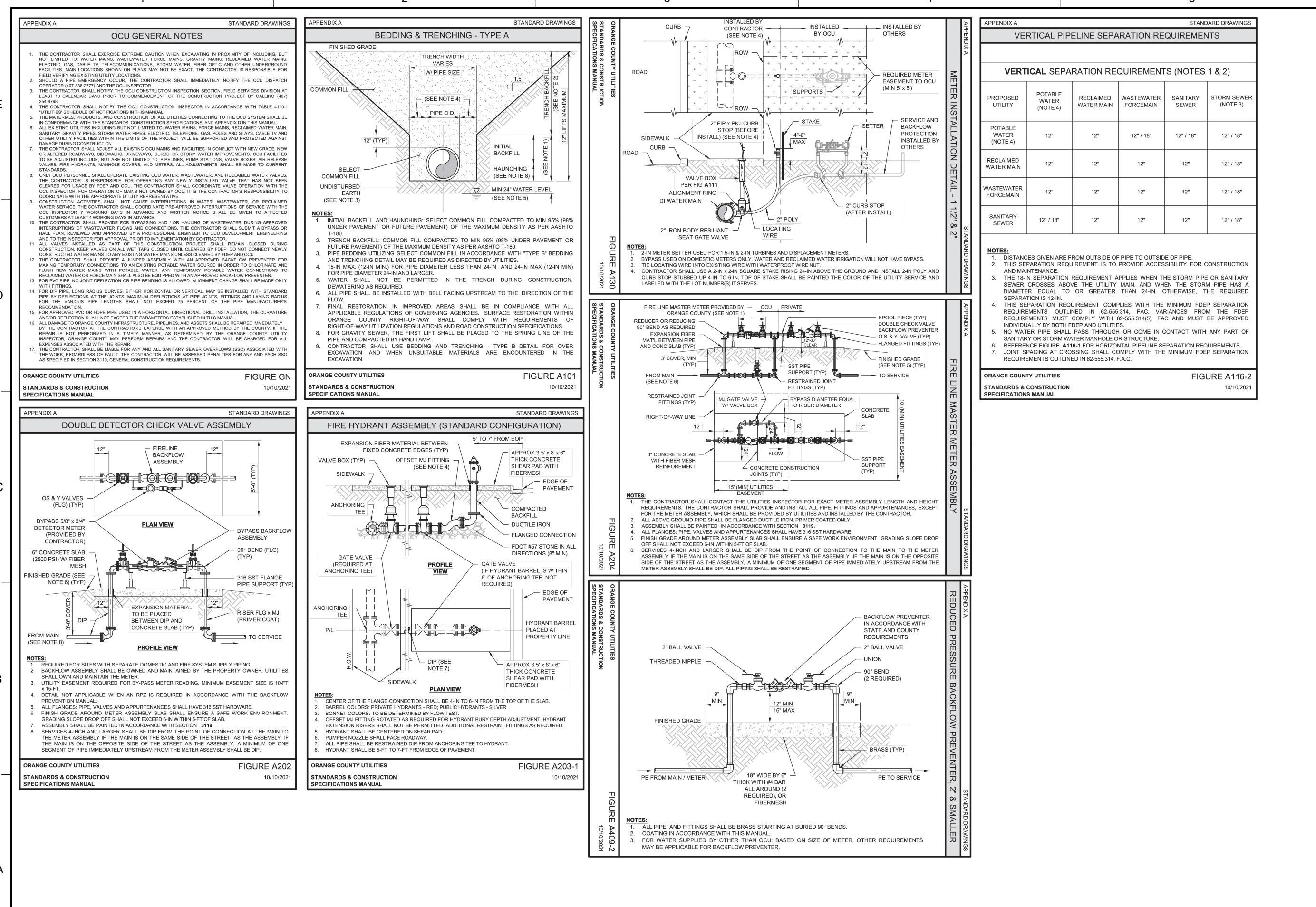












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SOAT PRODUCTION
EXPANSION
BELLE ISLE

Reinardo Malave FL PE # 31588

> WATER SERVICE DETAILS

PROJECT NO. 50150413

C-8.0

GENERAL NOTES: TYPE I - HEAVY DUTY MANHOLE FRAME AND COVER -PRECAST CONCRETE GRADE RINGS OR BRICK COLLAR AS REQUIRED FOR GRADE ADJUSTMENT (2" MIN. – 12" 1. MANHOLE COVERS TYPICAL FOR ALL FRAME TYPES. WRAPID SEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS: ON ALL JOINTS ON ROUND AIR RELEASE AND ROUND MANHOLE STRUCTURES. MAX. HEIGHT) CONCENTRIC-CONE SECTION JOINT SEALER SEE DETAIL WRAPID SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 4. MAXIMUM MANHOLE DEPTH SHALL BE 18 FEET TO BOTTOM OF SLAB 4' OR 5' DIA MANHOLE FRAME & COVER ---BITUMASTIC — EXTERIOR AND INTERIOR COATING - FLEXIBLE PIPE CONNECTOR OR LINK SEAL FRAMES BEDDED IN MORTAR -PRECAST MONOLITHIC BASE SECTION 2 COURSES OF BRICK (MIN.) -CONCRETE -4 COURSES (MAX.) FILL BENCHING EXISTING PAVEMENT CONCRETE 2" ABOVE PAVEMENT 1'6" MIN. MIN. 12" COMPACTED — CRUSHED STONE 48" DIA SHALLOW PRECAST CONCRETE MANHOLE 4' OR 5' DIA 18" CAST IRON VALVE COVER BOX BITUMASTIC COATING 4" CAST IRON RISER SEE JOINT DETAIL (TYP.)-6" WIDE / END OF CHANNEL FOR TERMINAL HALF-PIPE CHANNEL FOR FLOW THROUGH MANHOLE MAY BE USED MANHOLE TROWEL-FINISH -WRAPID SEAL TYPICAL CONCRETE FLEXIBLE PIPE CONNECTION BENCHING CONCRETE FILL BENCHING STUB OUT FOR FUTURE USE GROOVE TO BE FORMED WITH AN ACCURATE BELL RING. FORM SEAL WITH COAL TAR MASTIC DEWITT NO. 10 OR APPROVED EQUAL OR JOINT SAME AS DETAIL FOR RISER SECTION TRAFFIC BEARING CLEANOUT N.T.S. #4 BARS 9" O.C. EACH WAY CONCRETE BASE MIN 12" COMPACTED CRUSHED -STONE (FDOT #57) PRECAST CONCRETE MANHOLE TYPICAL MANHOLE PLAN N.T.S. CORE DRILLED HOLE STRAIGHT THROUGH RIGHT ANGLE WALL PENETRATION SEAL OR EQUAL PRECAST MANHOLE PIPE CONNECTION REWORK CHANNEL AND BENCH, FLOW FROM THE NEW FORCEMAIN SHALL BE CHANNELIZED THROUGH THE MANHOLE. FOR 2" AND GREATER DIAMETER PROPOSED FM PUMPED SERVICE FLOW CHANNEL SHALL BE AIMED IN THE OUTFALL PIPE. Pipe Size Pipe Size (Hole Diameter) (Hole Diameter) GRAVITY SEWER — 16 MAIN LINE OUT FLOW CHANNEL DETAIL - SANITARY SEWERS 16 1. MAINTAIN DESIGN SLOPE ACROSS MANHOLE UNLESS OTHERWISE INDICATED. 23 2. DEPTH OF ALL CHANNELS TO BE 80% OF PIPE DIAMETER. 3. FINISH OF ALL CHANNELS TO ALLOW SMOOTH FLOW. 10 20 CONCRETE BENCH SHALL BE POURED BEFORE SHUTTING DOWN DEWATERING OPERATIONS TO PREVENT FLOTATION. 5. BRICK MAY BE USED TO BUILD UP CONCRETE BENCH. 6. MINIMUM ANGLE BETWEEN INLET AND OUTLET PIPING IS 90 DEGREES. FORCEMAIN CONNECTION TO MANHOLE

DEPARTMENT OF PUBLIC WORKS
WASTEWATER BUREAU

CITY OF
ORLANDO, FLORIDA

Note : All dimensions are in inches.

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REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
ITY OF BELLE ISLE, FLORIDA

Reinardo Malave FL PE # 31588

 DRAWN BY
 GL

 APPROVED BY
 RM

 CHECKED BY
 GL

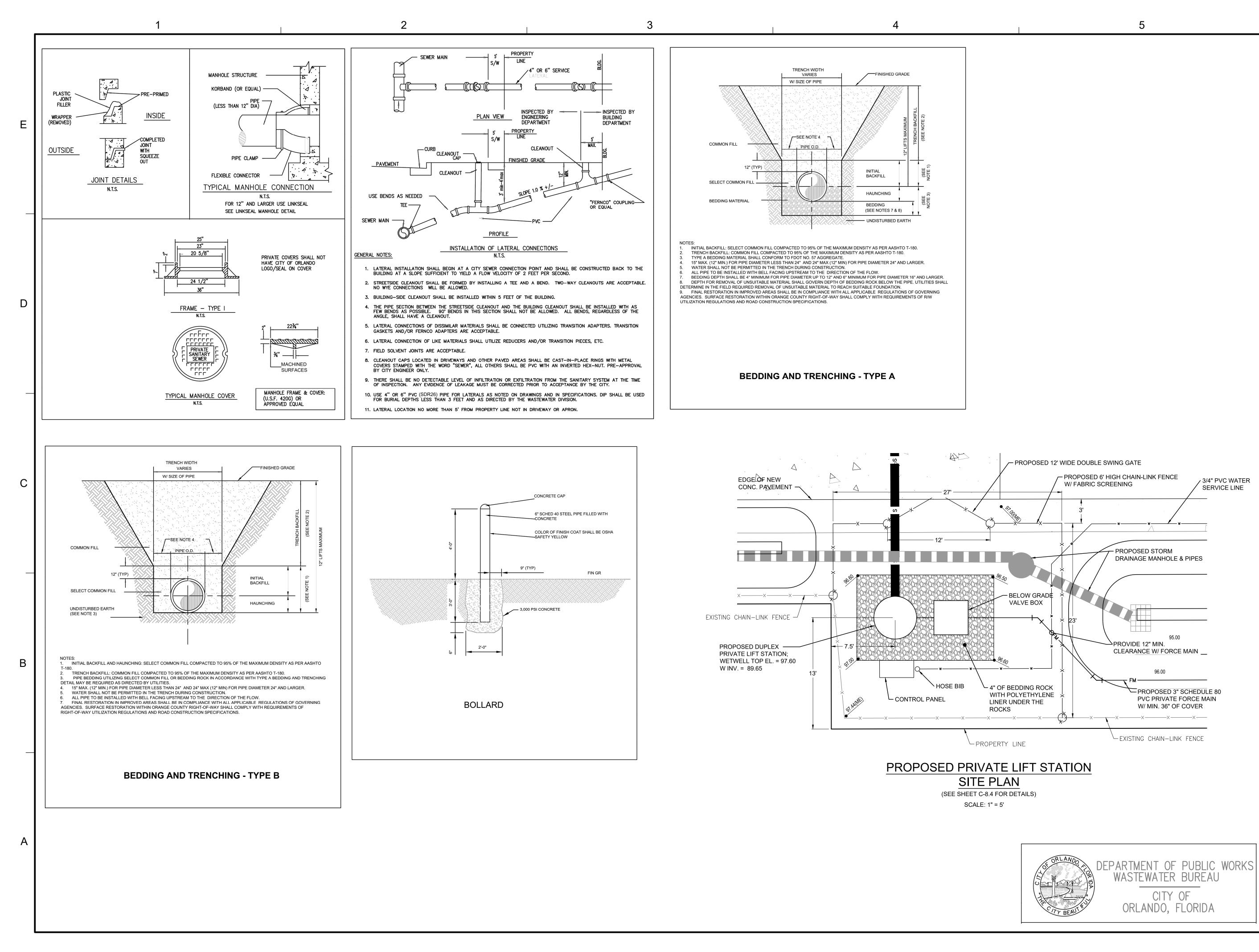
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 9 / 6 / 2022

 TITLE

CITY OF ORLANDO SANITARY SEWER DETAILS

PROJECT NO. 50150413

C-8.1



Dewberry

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SOAT PRODUCTION
EXPANSION
BELLE ISLE
300 JETPORT DRIVE BELLE

Reinardo Malave

 DRAWN BY
 GL

 APPROVED BY
 RM

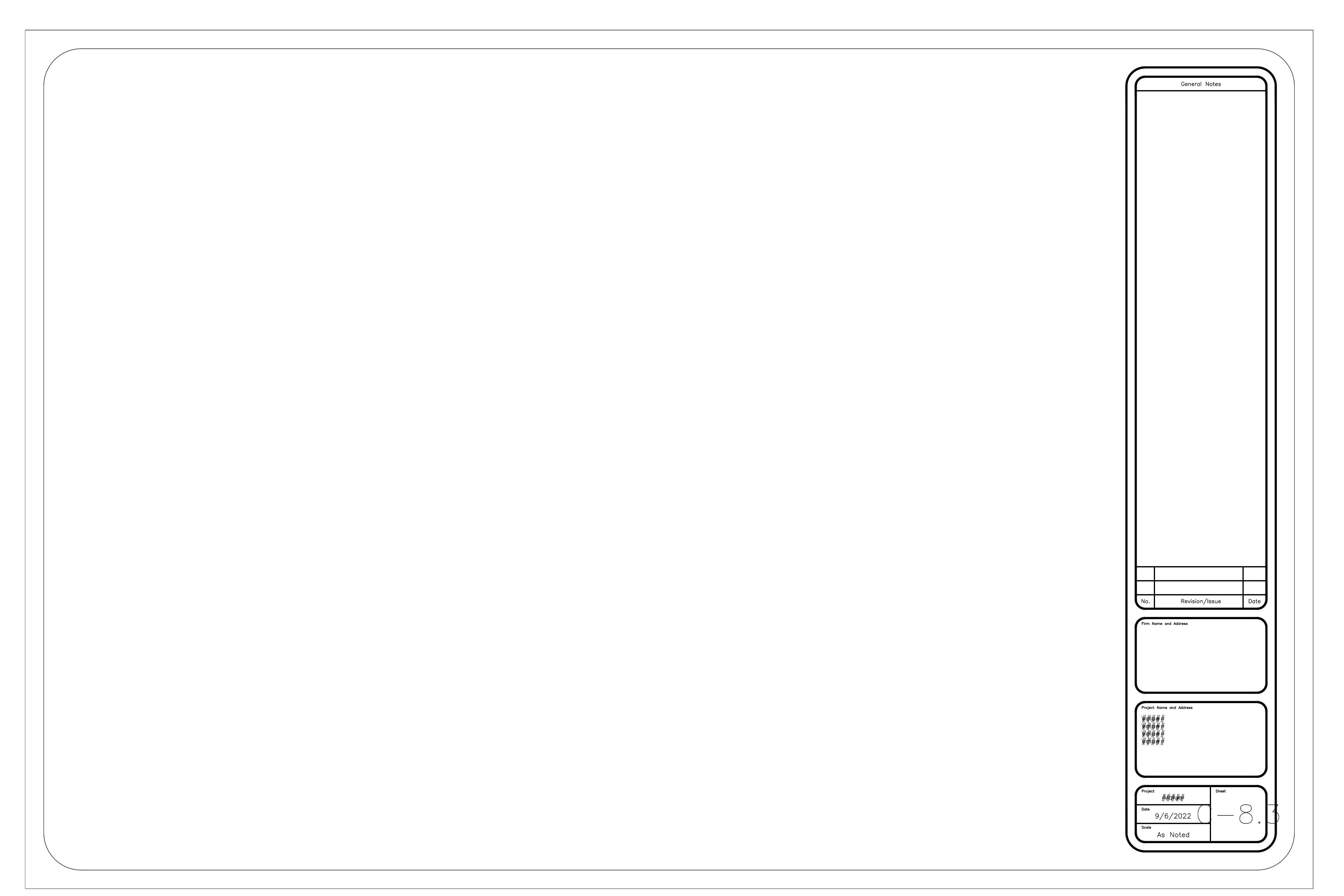
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 DATE
 9 / 6 / 2022

CITY OF ORLANDO SANITARY SEWER DETAILS

PROJECT NO. 50150413

C - 8.2



Complete system shall be supplied by: RILEY & Company, Inc. Sanford, FL 32773 (Ph. 407-265-9963)

NO SUBSTITUTIONS - NO ALTERNATES

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty. Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

PUMPS: (3 YEAR WARRANTY)

Submersible pumps shall be HOMA Model RC20056. The grinder pumps shall be installed in the H-20 GP FRP wetwell utilizing a dual slide rail system.

Stator winding shall be open type with Class H insulation and shall be heatshrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor shaft shall be AISI 430F SS threaded to take the pump impeller

Upper & lower mechanical seals shall be Silicon Carbide vs Silicon Carbide.

DUPLEX CONTROL PANEL: (3 YEAR WARRANTY)

To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minuimum of 5 years history in the manufacturing of electrical control panels.

The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep

Marine Grade Aluminum with 4 point latching system. The enclosure shall have external mounting feet to allow for wall mounting.

The following components shall be mounted through the enclosure:

- 1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter
- 1- ea. Alarm Horn (minimum 95 DCB) 1- ea. Generator Receptacle w/ weatherproof cover(SCM460 -UL 1686)
- 1- ea. Alarm Silence Pushbutton

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel

The following components shall be mounted to back panel:

- 1- ea. RILEY & COMPANY GUARD PRO III MONITORING SYSTEM
- 1- ea. Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1- ea. Silence Relay Module 1- ea. Duplex Alternator w/ Pump Selector Switch
- 1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger For
- The High Level Alarm System

20- ea. Terminals For Field Connections

- 6- ea. Terminals For Motor Connections (Single Phase Only)
- 7- ea. Grounding Lugs
- 1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker
- 1- ea. Emergency Circuit Breaker 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker
- 2- ea. Seal Failure Indicator Lights
- 1- ea. Hand-Off-Auto Selector Switches
- 2- ea. Pump Run Pilot Lights 1- ea. Power On Pilot Light
- 2- ea. Elapse Time Meters (Non-Resetable)
- 1- ea. GFI Duplex Convenience Outlet

PUMP DATA		ELEVATIONS	
PRIMARY PUMP CAPACITY	84 GPM	TOP OF WETWELL	97.60
PRIMARY TDH	30 ' т рн	INLET INVERT	89.65
PUMP MANUFACTURER	НОМА	HIGH LEVEL ALARM (HLA)	89.15
PUMP MODEL #	RC20056	2nd PUMP ON (LAG)	88.65
R.P.M.	3450	1st PUMP ON (LEAD)	88.15
HORSEPOWER	2.50	PUMPS OFF (OFF)	86.65
ELECTRICAL/ VOLTS / PHASE	230V/3	BOTTOM OF WETWELL	84.60
FULL LOAD AMPS/ PER PUMP	8.40	WETWELL DIAMETER	60"
PUMP DISCHARGE SIZE	2"		

NOTES:

- 1. Water service with hose bibb and reduced pressure backflow preventer
- to be installed near lift station. (See Electrical Riser Illustration) 2. System shall be operated and maintained to provide uninterrupted service
- as required by DEP Chapter 62-604.500.

* ELECTRICIAN NOTES:

1. DRAWING NOT TO SCALE

SWITCH DISCONNECT ____

(BY ELECTRICIAN)

GENERATOR RECEPTOR —

3/4" HOSE BIB

3/4"GALV. RISER ___

TO WATER SUPPLY

SLEEVE REQUIRED -

GALVANIZED.

MODEL UL 1686 SCM460

CONTROL PANEL-

REDUCED PRESSURE (RPZ) BACKFLOW PREVENTER TO BE INSTALLED IN WATER SUPPLY LINE TO

* 3. ELECTRICIAN SHALL SEAL OFF CONDUIT RUNS

* 6. NEUTRAL TO BE SUPPLIED FOR 23OV-3 PHASE

---GROUND

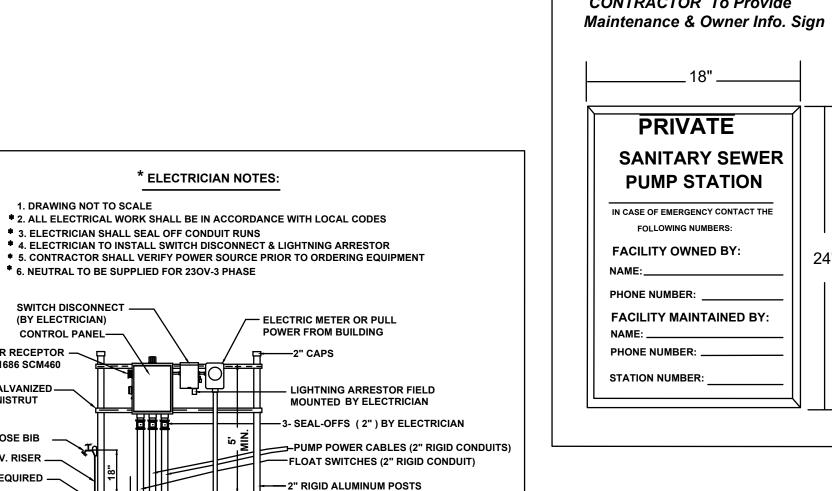
ELECTRICAL RISER FOR

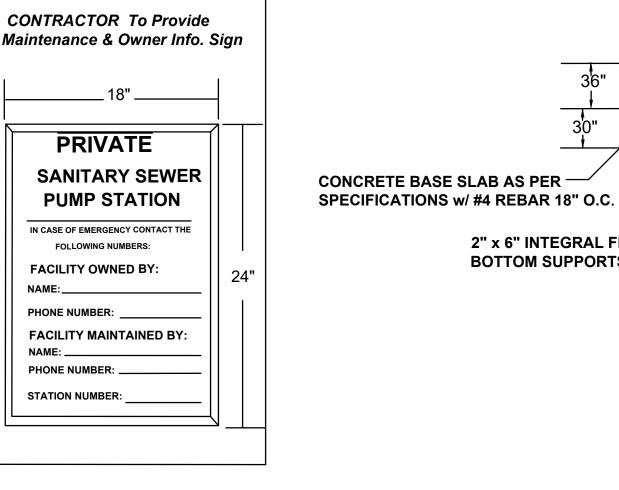
ILLUSTRATION PURPOSES ONLY

- 3. Approved Operation & Maintenance Manual(O&M) shall be kept available
- for operation and maintenance personnel
- 4. A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public (Lettering shall be min. 2" in height.

CONCRETE AROUND POSTS

5. INSPECTION & TESTING: A factory representative shall be provided for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance for the complete lift station package.





ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDEDAS PART OF THE ENGINEERING DESIGN OR CERTIFICATION BY PROFESSIONAL ENGINEER. ANY ELECTRICAL DESIGN NEEDED FOR THE LIFT STATION SHALL BE CONFIRMED AND CERTIFIED BY A PROFESSIONAL ELECTRICAL ENGINEER.

SEE ELECTRICAL

& BOLTS

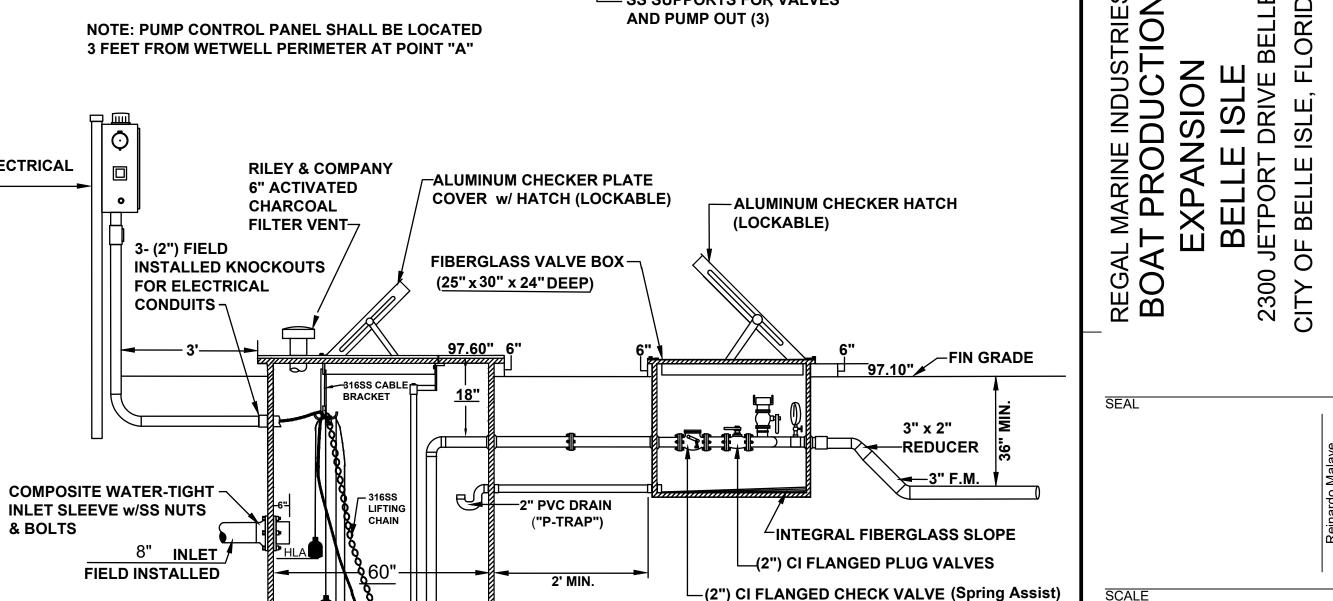
MECHANICAL FLOAT SWITCHES —

2" x 6" INTEGRAL FRP-

BOTTOM SUPPORTS

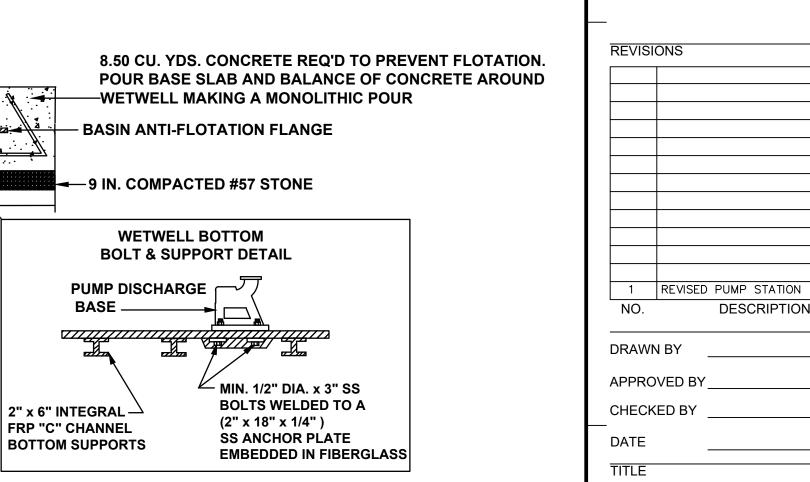
FIBERGLASS

ALUMINUM COVER-FIBERGLASS WETWELL / FIBERGLASS VALVE BOX (LOCKABLE) w/ (LOCKABLE) H-20 LOAD RATED **ACCESS HATCH —EMERGENCY PUMP-OUT** w/ 20 YR. WARRANTY w/ BALL VALVE S.S. HINGES — ----2.5" SS (0-100 PSI) PRESSURE GAUGE w/ SHUT-OFF VALVE - SS SUPPORTS FOR VALVES



— 2" HDPE SDR11 w/ HEAT FUSED CONNECTIONS

- SLIDE RAILS 1" SCH.40 AISI 304SS PIPE



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RILEY & COMPANY, INC. IS STRICTLY PROHIBITED.

LIFT STATION **DETAILS**

DESCRIPTION

Dewberry

Dewberry Engineers, Inc

407.843.5120

C.A. #8794

800 N. Magnolia Avenue Suite 1000 Orlando, FL 32803

50150413

PROJECT NO.

