

ADDENDUM NO. 3
to the
PROJECT DOCUMENTS AND SPECIFICATIONS
for
DFS TERMINAL, HANGAR, AND APRON DEVELOPMENT

Prepared for:
CITY OF DEFUNIAK SPRINGS, FLORIDA

Prepared By:



320 Bayshore Drive, Suite A
Niceville, Florida 32578-2425

AVCON Project No. 2019.0028.01

Addendum Date: March 7, 2022

Note: The bidder shall acknowledge receipt of this addendum on the Bid Form, Page B1-3 in the space provided.

ADDENDUM NO. 3
DFS TERMINAL, HANGAR, AND APRON DEVELOPMENT

Date of Issue: March 7, 2022

Bid Submittal Deadline: Thursday, March 10, 2022 @ 2:00 p.m. (local time) **(UNCHANGED)**

Notice to all Plan Holders: Please insert this addendum (2 pages including cover, excluding attachments) into your copy of the Project Bid Documents.

The following changes to the Project Documents and Specifications are issued by the Engineer and shall have the same force and effect as though part of the original issue:

A. Changes to the Bid Manual:

1. Bid Form **REPLACE** Bid Form Pages B1-1 to B1-15 with Pages B1-1 to B1-15 in their entirety attached as **Attachment A** (15 pages) hereto Bid Form.

The attached updated Bid Form was updated to include the additional language (Notes 17 and 18) added in Addendum No. 2 previously and corrected the contract time for substantial completion to 600 days. No revisions were made to the Bid Schedule.

B. Changes to the Bid Drawings:

1. Bid Drawings - Civil **REPLACE** the following civil design drawings in their entirety with the revised sheets identified below and included in **Attachment B** (3 pages) hereto.

Sheets G-2, C-14, C15

2. Bid Drawings - Civil **ADD** Sheet C-15A in its entirety attached as **Attachment C** (1 page) hereto.

END OF ADDENDUM NO. 3

CITY OF DEFUNIAK SPRINGS, FLORIDA

TERMINAL, HANGAR, AND APRON EXPANSION

at

DEFUNIAK SPRINGS AIRPORT
CITY OF DEFUNIAK SPRINGS, FLORIDA

AIP Project No. TBD
FDOT PTGA No. 429681-2-94-01

BID FORM

TO: Owner City of DeFuniak Springs
 DeFuniak Springs Airport
 71 US Highway 90 West,
 DeFuniak Springs, Florida 32433

FROM: Bidder _____

 Address _____

 City/State/Zip _____

DATE: _____

1. The undersigned hereby certifies that he/she has examined the form of contract, plans and specifications, and other associated Contract Document for the **Terminal, Hangar, and Apron Expansion** project, copies of which are on file at the DeFuniak Springs Airport, 71 US Highway 90 West, DeFuniak Springs Airport, Florida 32433. The undersigned further certifies that he/she has examined the site of the work, has determined for himself/herself the conditions affecting the work and subject to acceptance of the proposal, agrees to provide at his/her expense, all labor, insurance, superintendence, machinery, plant, equipment, tools, apparatus, appliances, and means of construction, and all materials and supplies complete the entire work, including work incidental thereto, in conformance with the plans, specifications, and associated contract documents.
2. The undersigned acknowledges that the Contract Documents consist of the Invitation for Bid, Instruction to Bidders, all issued Addenda, Proposal, Statement of Qualifications, Anticipated Sub-Contracts, Form of Proposal Guaranty, Notice of Award, Contract Agreement, Performance & Payment bonds, Notice to Proceed, Notice of Contractor's Settlement, Wage Rates, General Provisions, Special Provisions, Plans, Technical Specifications, attached appendices and referenced documents.
3. The undersigned, in compliance with the Notice to Bidders / Invitation for Bids, hereby proposes to do the work called for in said contract and specifications and shown on said plans and to furnish all materials, tools, labor, and all appliances and appurtenances necessary for the said work at the following rates and prices:

4. The undersigned understands that the above quantities of work to be done are approximate only and are intended principally to serve as a guide in evaluating the bids.

The contract will be awarded on the basis of the total bid amount shown on the Bid Schedule for the combination of alternates ultimately awarded by the City of DeFuniak Springs.

In the event any discrepancy exists between unit prices and total amount shown on the Standard Form of Bid, the unit prices shall govern.

5. It is understood that the schedule of minimum wage rates, as established by the Secretary of Labor and included in the Specifications, are to govern on this project, and the undersigned certifies that he or she has examined this schedule of wage rates and that the prices bid are based on such established wage rates.
6. The undersigned prime contractor, if not a certified DBE, hereby assures that they will make sufficient and reasonable efforts to meet the DBE goals, that they will subcontract **15.4 percent** of the dollar value of the prime contract to DBE firms, and that they will include the DBE clauses required by the sponsor's DBE Program in all subcontracts which offer subcontracting opportunities. The undersigned will complete and submit with the bid the attached DBE Participation Form, including a demonstration of a good faith effort if the DBE goal is not met.
7. The undersigned acknowledges a non-mandatory pre-bid meeting was held for this project.
8. The undersigned agree upon written notice of the acceptance of this bid, within one hundred twenty (120) days after the opening of the bids, that he or she will execute the contract in accordance with the bid as accepted and give contract (Performance and Payment) bond on attached forms within ten (10) days after the prescribed forms are presented for signature.

If awarded the contract, the undersigned agrees to commence and complete the construction in compliance with the terms stated in the Notice to Bidders / Invitation for Bids. The undersigned agrees to accept as full payment for the completed construction work an amount equal to the total of the prices as hereinafter set forth, subject to adjustments due to changes as may be officially ordered during the progress of the work.

9. The undersigned agrees that if awarded the contract, the work of construction shall be started not later than 10 days after receipt by the Contractor of the Notice to Proceed and shall be substantially complete within ~~420~~ **600** calendar days, subject to any extension of time that may be granted by the City of DeFuniak Springs. Failure to complete the work within the time period allowed shall subject the Contractor to the liquidated damages as defined in Special Provision 13.
10. As an evidence of good faith in submitting this proposal, the undersigned encloses a certified check or proposal bond in the amount of 5% of bid which, in case the undersigned refuses or fails to accept an award and to enter into a contract and file the required bonds within the prescribed time, shall be forfeited to the City of DeFuniak Springs, as liquidated damages.
11. The undersigned certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The

undersigned certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments and that he will not permit his employees to perform their services at any location under his control, where segregated facilities are maintained. The undersigned agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or any other reason. The undersigned agrees that (except where he has obtained identical certifications from proposed subcontractor for specific time periods) he will obtain identical certifications from proposed subcontractors prior to award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that he will retain such certifications in his files.

12. It is a condition of this contract, and shall be made a condition of each subcontract entered into pursuant to this contract, that the contractor and any subcontractor shall not require any laborer or mechanic employed in performance of the contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health or safety, as determined under Construction Safety and Health Standard (Title 29 Code of Federal Regulation, Part 1518) (36 F.R. 7340) promulgated by the United States Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act, (82 Stat. 96).
13. By entering into this contract, the Contractor certifies that neither it (nor he/she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
14. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or CFR 5.12(a)(1).
15. The undersigned hereby declares that the only parties interested in this proposal are named herein, that this proposal is made without collusion with any other person, firm, or corporation, that no member of the City of DeFuniak Springs, officer or agent of the City of DeFuniak Springs or DeFuniak Springs Airport, is directly or indirectly financially interested in this bid.
16. ***The undersigned hereby acknowledges the following limitations to requesting payment for this project:***
 - 1) ***The maximum amount the undersigned may request payment for prior to September 1, 2022 is \$3,590,000.***
 - 2) ***The maximum amount the undersigned may request payment for prior to September 1, 2023 is undersigned may request \$5,150,000.***
 - 3) ***The undersigned may request payment exceeding \$5,150,000 after September 1, 2023.***

17. The Building Permit will not be issued at the time the Bids are due. In accordance with the Walton County Building Department process, the contractor will be required to complete the Building Permit application and submit for the Building Permit. The contractor shall allow up to 120 days for the Walton County Building Department to issue the Building Permit. The contractor may proceed with the civil improvements prior to receiving the Building Permit.”

18. The pricing for any additive alternates not awarded with the initial construction contract shall be in effect for 120 days following the Bid Date.”

19. The undersigned acknowledges receipt of the following Addenda:

Addendum No.: _____

Date Received _____

Addendum No.: _____

Date Received _____

Addendum No.: _____

Date Received: _____

Addendum No.: _____

Date Received: _____

BID SCHEDULE - UNIT PRICES

CONTRACTOR: _____ **DATE:** _____

PROJECT NAME: Terminal, Hangar, and Apron Expansion

Base Bid – Terminal Building

Bid Item No.	Item No.	Item Description	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-105-1	Mobilization	LS	1		
2	TB-1	Terminal Building, Complete	LS	1		

BASE BID: For all work required to perform the work specified in the Base Bid above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL BASE BID (amount in words):

_____ dollars

and _____ cents

(\$ _____)
 (amount in numbers)

Note: Total Base Bid amount shall equal the sum of the totals for Bid Items No. 1 and 2.

Additive Alternate No. 1 – Main Entry Covered Canopy at Drop-Off

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-105-1	Mobilization	LS	1		
2	CC-1	Main Entry Covered Canopy at Drop-Off	LS	1		

ADDITIVE ALTERNATE NO. 1: For all work required to perform the work specified in Additive Alternate No. 1 above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 1 BID (amount in words):

_____ dollars
and _____ cents
(\$ _____)
(amount in numbers)

Note: Total Additive Alternate No. 1 bid amount shall equal the sum of the totals for Bid Items No. 1 and 2.

Additive Alternate No. 2 – Courtyard Enclosure Elements

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-105-1	Mobilization	LS	1		
2	CE-1	Courtyard Enclosure Elements	LS	1		

ADDITIVE ALTERNATE NO 2: For all work required to perform the work specified in Additive Alternate No. 2 above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 2 (amount in words):

_____ dollars
and _____ cents
(\$ _____)
(amount in numbers)

Note: Total Additive Alternate No. 2 bid amount shall equal the sum of the totals for Bid Items No. 1 and 2.

Additive Alternate No. 3 – Landside Site Work Beyond the Building Pad

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-102-1	Erosion & Pollution Control	LS	1		
2	C-105-1	Mobilization	LS	1		
3	C-105-2	Maintenance of Traffic	LS	1		
4	P-101-1	Miscellaneous Pavement Removal	SY	825		
5	P-151-1	Stripping	SY	11,400		
6	P-152-1	Excavation and Embankment	LS	1		
7	P-152-2	Subgrade Preparation (LBR 40)	SY	2,000		
8	P-154-1	Stabilized Subbase Course (12")	SY	1,900		
9	P-209-1	8" Crushed Aggregate Base Course	SY	1,800		
10	P-401-1	2" Bituminous Surface Course, 76-22 Binder	TN	190		
11	D-701-2	24" ADS, N-12	LF	350		
12	D-751-1	Type F DBI	EA	4		
13	F-162-1	7' + 1' AOA Fence	LF	1,670		
14	F-162-4	24' Automatic Sliding Gate, 7' + 1'	EA	1		
15	T-904-1	Sodding, Bahia Argentina	SY	8,300		
16	520-2	Concrete Curb & Gutter, Type RA	LF	750		
17	520-3	Sidewalk Integral Curb	LF	280		
18	522-1	PCC Sidewalk	SY	225		
19	522-2	PCC Dumpster Pad	EA	1		
20	700-1	Vehicular Signage	LS	1		
21	710-1	Landside Pavement Markings	LS	1		
22	02660-1	Potable Water Improvements	LS	1		
23	02730-1	Sanitary Sewer Improvements	LS	1		
24	WH-1	Wheel Stops	EA	20		
25	AL-1	Lobby Seating, Conference Room Seating and Palm Trees	AL	1	\$140,000	\$140,000

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
26	AL-2	Permitting and Connection Impact Fees	AL	1	\$85,000	\$85,000
27	AL-3	Gulf Power Allowance	AL	1	\$20,000	\$20,000
28	AL-4	Telecommunications Allowance	AL	1	\$10,000	\$10,000

ADDITIVE ALTERNATE NO. 3: For all work required to perform the work specified in Additive Alternate No. 3 above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 3 BID (amount in words):

_____ dollars

and _____ cents

(\$ _____)
 (amount in numbers)

Note: Total Additive Alternate No. 3 bid amount shall equal the sum of the totals for Bid Items No. 1 through 28.

Additive Alternate No. 4 – Hangar Building

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-105-1	Mobilization	LS	1		
2	HB-1	Hangar Building, Complete	LS	1		

ADDITIVE ALTERNATE NO. 4: For all work required to perform the work specified in Additive Alternate No. 4 above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 4 (amount in words):

_____dollars
 and _____cents
 (\$_____) (amount in numbers)

Note: Total Additive Alternate No. 4 bid amount shall equal the sum of the totals for Bid Items No. 1 and 2.

Additive Alternate No. 5 – Barn Door in Lieu of Glass Door and Wall

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	BD-1	Barn Door in Lieu of Glass Door and Wall	LS	1		

ADDITIVE ALTERNATE NO. 5: For all work required to perform the work specified in Additive Alternate No. 5 above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 5 BID (amount in words):

_____dollars
 and _____cents
 (\$_____) (amount in numbers)

Note: Total Additive Alternate No. 5 bid amount shall equal the sum of the total for Bid Item No. 1.

Additive Alternate No. 6 – Apron Site Work

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-102-1	Erosion & Pollution Control	LS	1		
2	C-105-1	Mobilization	LS	1		

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
3	C-105-2	Maintenance of Traffic	LS	1		
4	P-151-1	Clearing and Grubbing	SY	12,600		
5	P-152-1	Excavation and Embankment	LS	1		
6	P-152-2	Subgrade Preparation (LBR 40)	SY	5,700		
7	P-154-1	Stabilized Subbase Course (12")	SY	5,400		
8	P-209-1	8" Crushed Aggregate Base Course	SY	5,100		
9	P-401-2	4" Bituminous Surface Course, 76-22 Binder	TN	1,060		
10	P-620-1	Apron Pavement Markings	LS	1		
11	D-701-1	18" RCP, Class III	LF	190		
12	D-701-3	36" RCP, Class III	LF	310		
13	D-701-4	42" RCP, Class III	LF	110		
14	D-701-5	42" MES with 15' x 15' Rip Rap	EA	1		
15	D-751-2	Type F DBI, Aircraft Rated	EA	2		
16	D-751-3	Type G DBI, Aircraft Rated	EA	2		
17	D-751-4	Type F Top, Type J Alt A (8'-0" dia) Bottom, Aircraft Rated	EA	1		
18	TD-1-1	A-I Aircraft Tie Down Anchor Assembly (3 anchor points)	EA	5		

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
19	TD-1-2	B-II Aircraft Tie Down Anchor Assembly (3 anchor points)	EA	1		
20	T-904-1	Sodding, Bahia Argentina	SY	7,400		

ADDITIVE ALTERNATE NO. 6: For all work required to perform the work specified in the Base Bid above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 6 (amount in words):

_____ dollars

and _____ cents

(\$ _____)
 (amount in numbers)

Note: Total Additive Alternate No. 6 bid amount shall equal the sum of the totals for Bid Items No. 1 through 20.

Additive Alternate No. 7 – Taxiway Connector Widening Site Work

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
1	C-102-1	Erosion & Pollution Control	LS	1		
2	C-105-1	Mobilization	LS	1		
3	C-105-2	Maintenance of Traffic	LS	1		
4	P-151-1	Clearing and Grubbing	SY	4,100		
5	P-152-1	Excavation and Embankment	LS	1		

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
6	P-152-2	Subgrade Preparation (LBR 40)	SY	2,100		
7	P-154-1	Stabilized Subbase Course (12")	SY	2,000		
8	P-209-1	8" Crushed Aggregate Base Course	SY	1,900		
9	P-401-2	4" Bituminous Surface Course, 76-22 Binder	TN	390		
10	P-620-2	Taxiway Connector Pavement Markings	LS	1		
11	T-904-1	Sodding, Bahia Argentina	SY	600		
12	SP-104-1	Temporary Power & Temporary Airfield Lighting/Signage/Navigational Facilities	LS	1		
13	SP-105-1	Electrical Demolition	LS	1		
14	L-108-1	1/C L-824 Type C Unshielded #8 AWG 5 KV Stranded Copper Cable, Installed	LF	2,500		
15	L-108-2	1/C #2 AWG Solid Copper Counterpoise Cable, Installed Over Duct or Conduit	LF	2,000		
16	L-108-3	0.75" Diameter by 10.00' Long Copper Clad Steel Sectional Ground Rod	EA	70		
17	L-110-1	1 Way 2" Schedule 40 PVC Direct Buried Duct	LF	1,850		
18	L-110-2	1 Way 2" Schedule 40 PVC Concrete Encased Duct	LF	150		
19	L-110-3	1 Way 4" Split Duct	LF	100		
20	L-125-2	L-858(L) Sign – Single/Double Face, LED, Size 2 – 2 Module	EA	1		

Bid Item No.	Item No.	Item Description & Unit Price In Words	Unit	Estimated Quantity	Unit Price	Total Amt./ Item
21	L-125-3	L-858(L) Sign – Single/Double Face, LED, Size 2 – 4 Module	EA	2		
22	L-125-1	L-861T(L) Omnidirectional, Blue, LED, Taxiway Edge Light	EA	21		

ADDITIVE ALTERNATE NO. 7 BID: For all work required to perform the work specified in Additive Alternate No. 7 above in accordance with the construction drawings, specifications, and other contract documents, including all costs related to the work, and any required permits, taxes, bonds and insurance, the undersigned submits a total amount of:

TOTAL ADDITIVE ALTERNATE NO. 7 BID (amount in words):

_____ dollars

and _____ cents

(\$ _____)
 (amount in numbers)

Note: Total Additive Alternate No. 7 bid amount shall equal the sum of the totals for Bid Items No. 1 through 22.

BID SUMMARY

(A) BASE BID – TERMINAL BUILDING: \$ _____

(B) ADD. ALTERNATE 1: MAIN ENTRY COVERED CANOPY AT DROP-OFF \$ _____

(C) ADD. ALTERNATE 2: COURTYARD ENCLOSURE ITEMS \$ _____

(D) ADD. ALTERNATE 3: LANDSIDE SITE WORK BEYOND BUILDING PAD \$ _____

(E) ADD. ALTERNATE 4: HANGAR BUILDING \$ _____

(F) ADD. ALTERNATE 5: BARN DOOR IN LIEU OF GLASS DOOR AND WALL \$ _____

(G) ADD. ALTERNATE 6: APRON SITE WORK \$ _____

(H) ADD. ALTERNATE 7: TAXIWAY CONNECTOR WIDENING SITE WORK \$ _____

(I) TOTAL BID AMOUNT*: \$ _____

** The Total Bid Amount (I) shall equal the sum of (A) through (H). The Basis of Award shall be based on the lowest total of either the Base Bid or combinations of the total of the Base Bid and any Bid Alternatives, as finally determined by the owner and the funding agencies based on the availability of funding.*

The Bidder represents that it has examined the site of the Work and informed itself fully in regard to all conditions pertaining to the place where the work is to be done; that it has examined the plans and specifications for the work and other Contract Documents relative thereto and has read all of the Addenda furnished prior to the opening of the Bids, as acknowledged below; and that it has otherwise fully informed itself regarding the nature, extent, scope and details of the Work to be performed.

If provided with a Notice of Intent to Award the Contract by the Owner, the Bidder shall execute and deliver to the Owner all of the documents required by the Contract Documents, including but not limited to, the Addendum to the Agreement and the Performance and Payment Bonds in the form contained in the Contract Documents, furnish the required evidence of the specified insurance coverages, furnish all necessary permits, license, materials, equipment, machinery, maintenance, tools, apparatus, means of transportation and labor necessary to complete the Work.

Dated and signed this ____ day of _____, 2021.

SIGNATURE OF BIDDER:

By _____
Name and Title of Authorized Agent

Name of Company

DEFUNIAK SPRINGS AIRPORT **ATTACHMENT A**
TERMINAL, HANGAR, AND APRON EXPANSION

MARCH 2022
RELEASE FOR BID

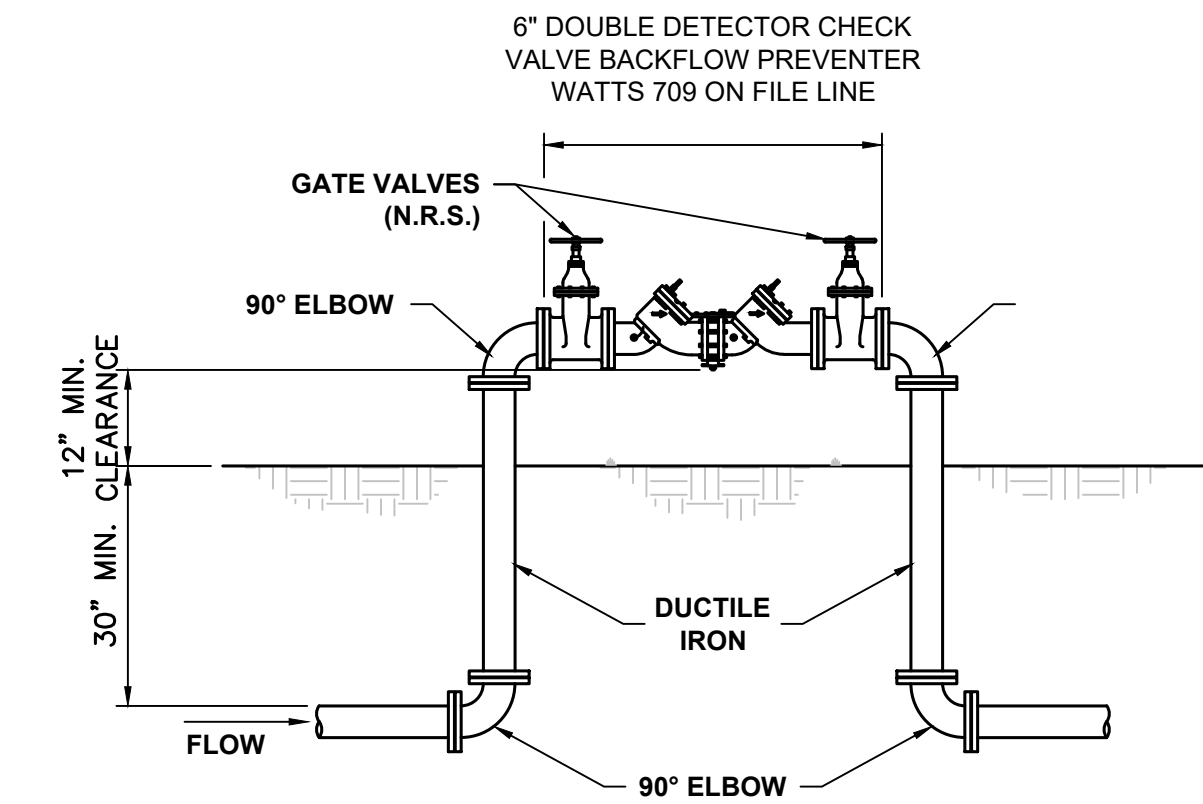
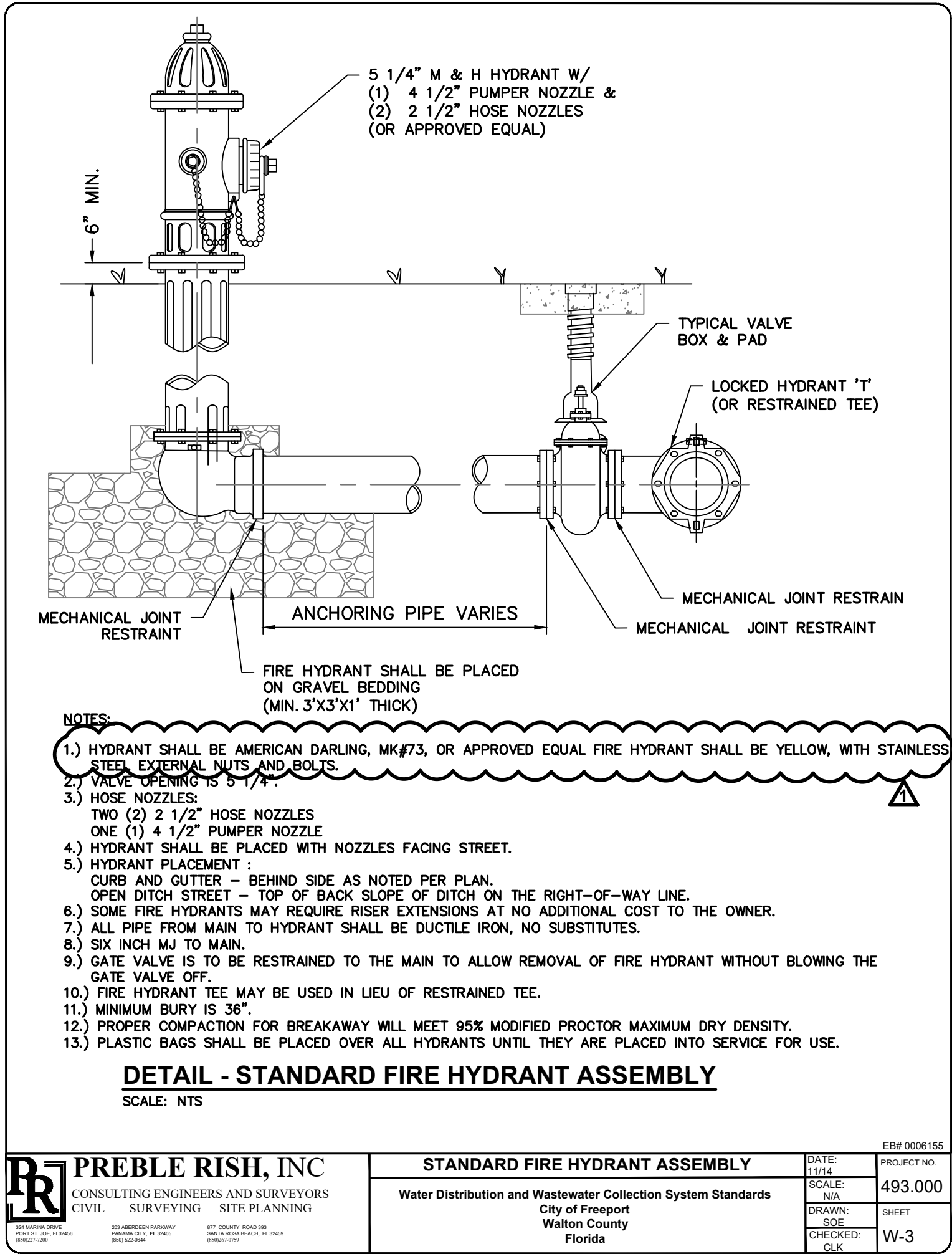
Address of Company

City, State, Zip Code

Telephone Number of Company

Federal ID No. or SS No.

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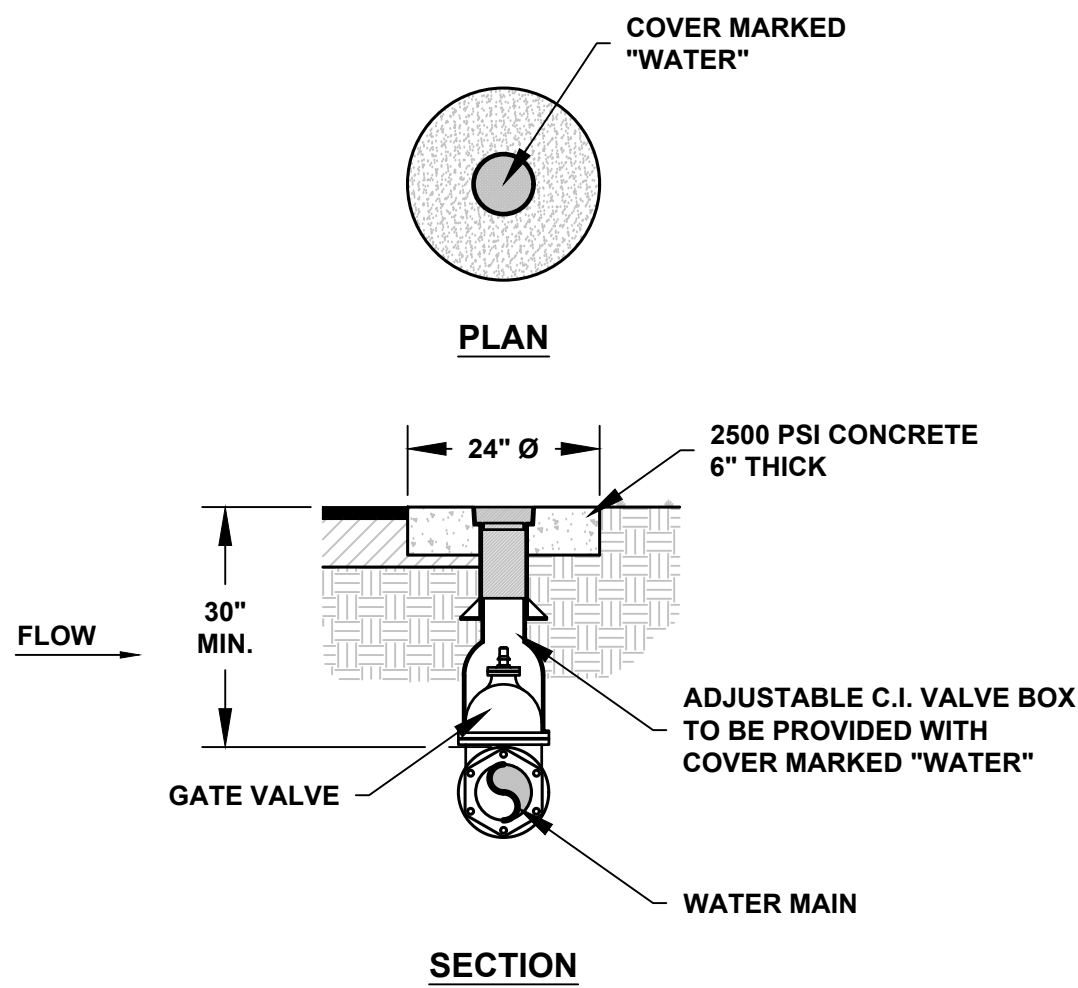


DOUBLE DETECTOR CHECK VALVE BACKFLOW PREVENTER DETAIL

SCALE: N.T.S.

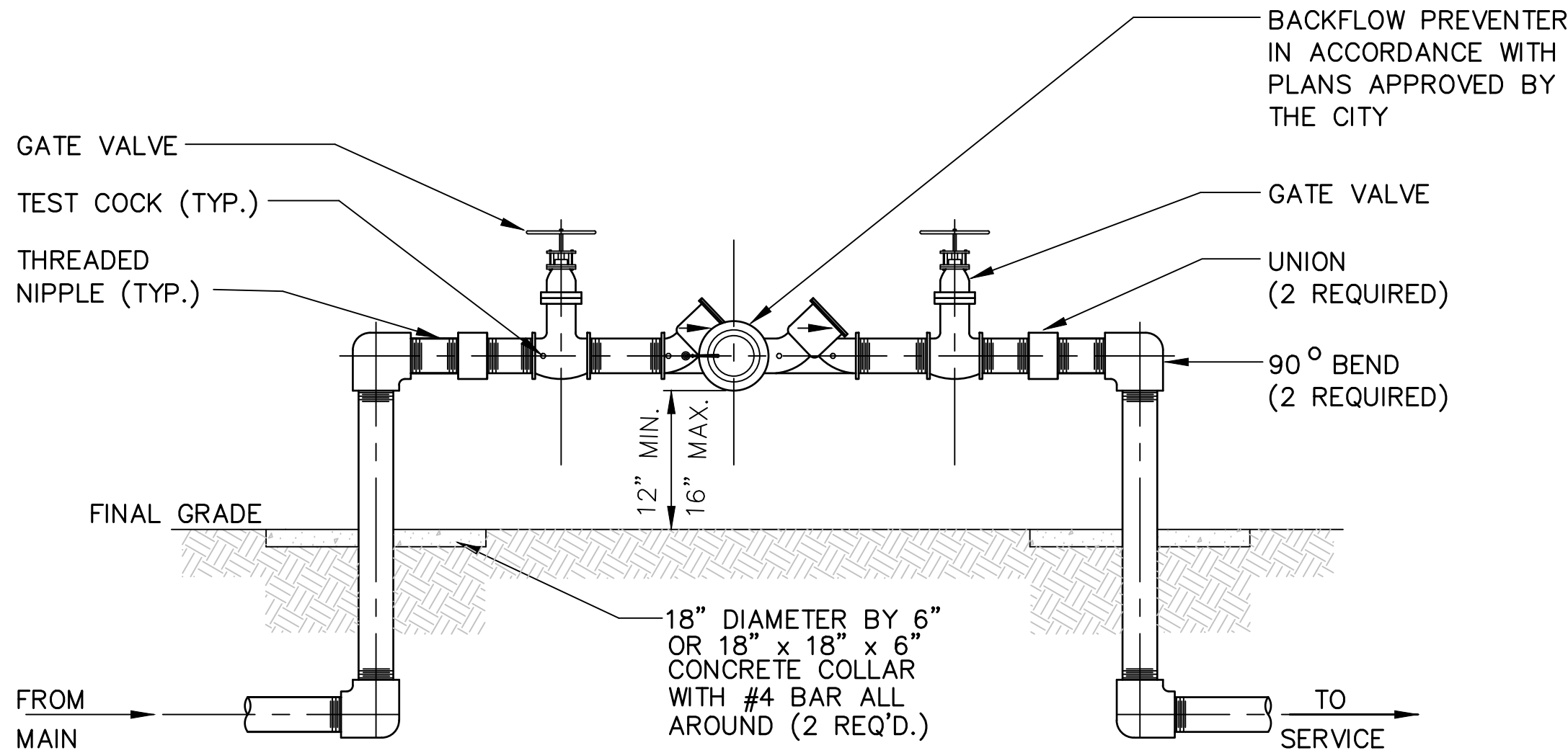
GENERAL NOTES:

1. ALL FITTINGS SHALL BE CAST OR DUCTILE IRON.
2. PROVIDE THRUST BLOCKS FOR BELOW GROUND FITTINGS, SEE THRUST BLOCK DETAIL.
3. PROVIDE SUPPORTS UNDER BACKFLOW PREVENTER AS REQUIRED.
4. DOUBLE DETECTOR CHECK VALVE BACKFLOW PREVENTER FOR FIRE LINE SHALL INCLUDE A FIRE DEPARTMENT CONNECTION ON THE BACKFLOW AS REQUIRED BY AIRPORT FIRE DEPARTMENT.



GATE VALVE AND VALVE BOX DETAIL

SCALE: N.T.S.

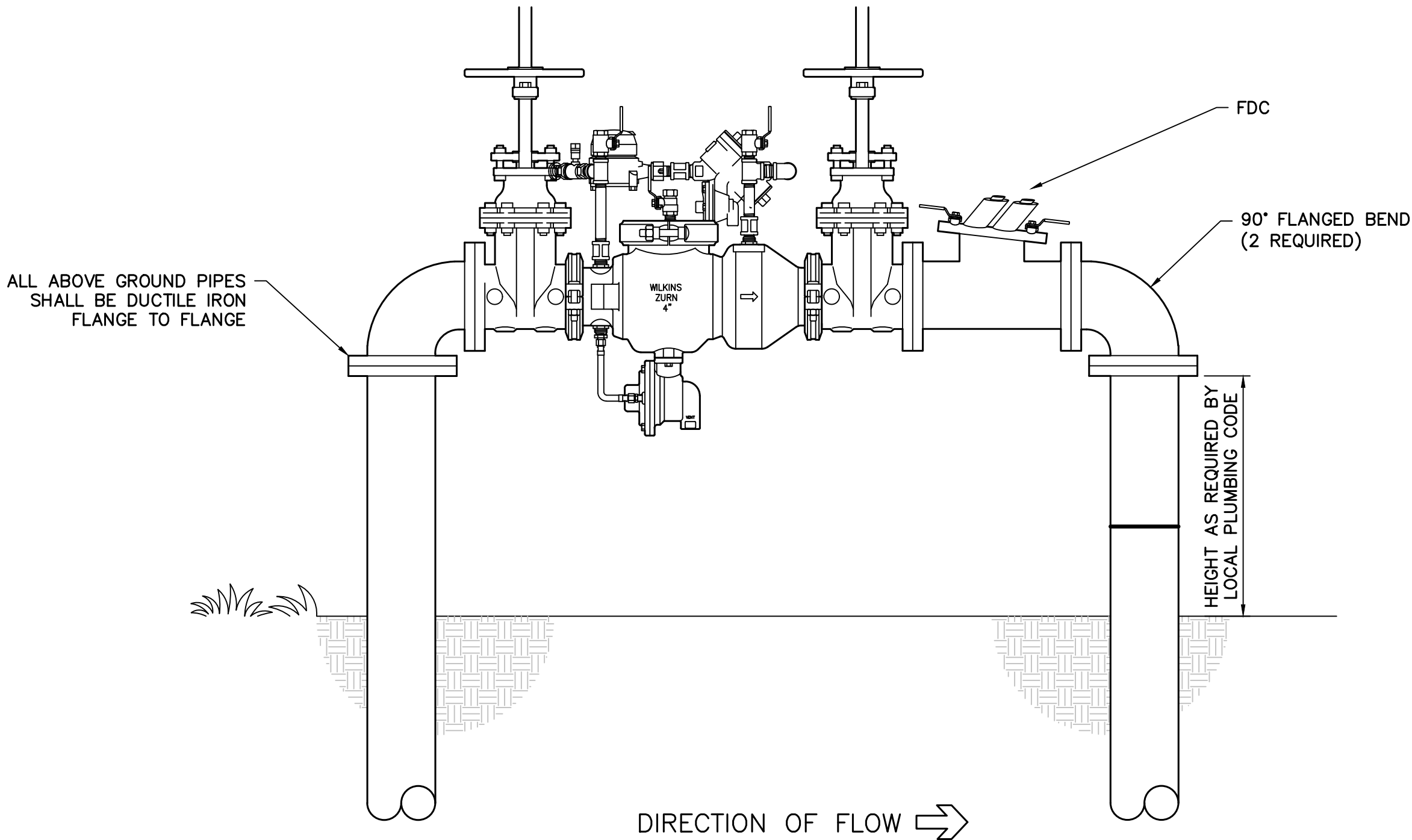


NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.

REDUCED PRESSURE BACKFLOW PREVENTER

NTS

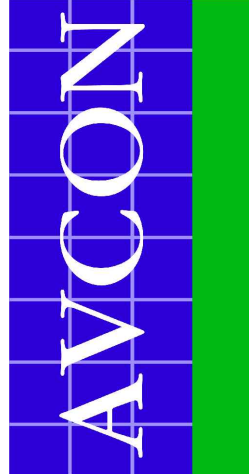


NOTES:

1. RPZ SHALL BE WILKINS UNLESS OTHERWISE APPROVED.
2. DEVICE SHALL BE INSULATED WITH APPROVED MATERIALS.

RPZ ASSEMBLY BACKFLOW PREVENTER 3" AND UP

ATTACHMENT B



TRANSFORMING TODAY'S IDEAS
INTO TOMORROW'S REALITY

JOHN R. COLLINS
FL LICENSE NO.: 75419
FBPR CERTIFICATE OF
AUTHORIZATION NO. 5057

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UTILITY DETAILS
(SHEET 2 OF 2)

RELEASE FOR BID

AIRPORT TERMINAL
AND HANGAR
DEVELOPMENT

PREPARED FOR

DEFUNAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: J.C.
DRAWN BY: D.F.
CHECKED BY: T.N.
APPROVED BY: V.L.
PROJECT NO: 2019.028.01
DATE: NOVEMBER 2021

SHEET NUMBER

C-14

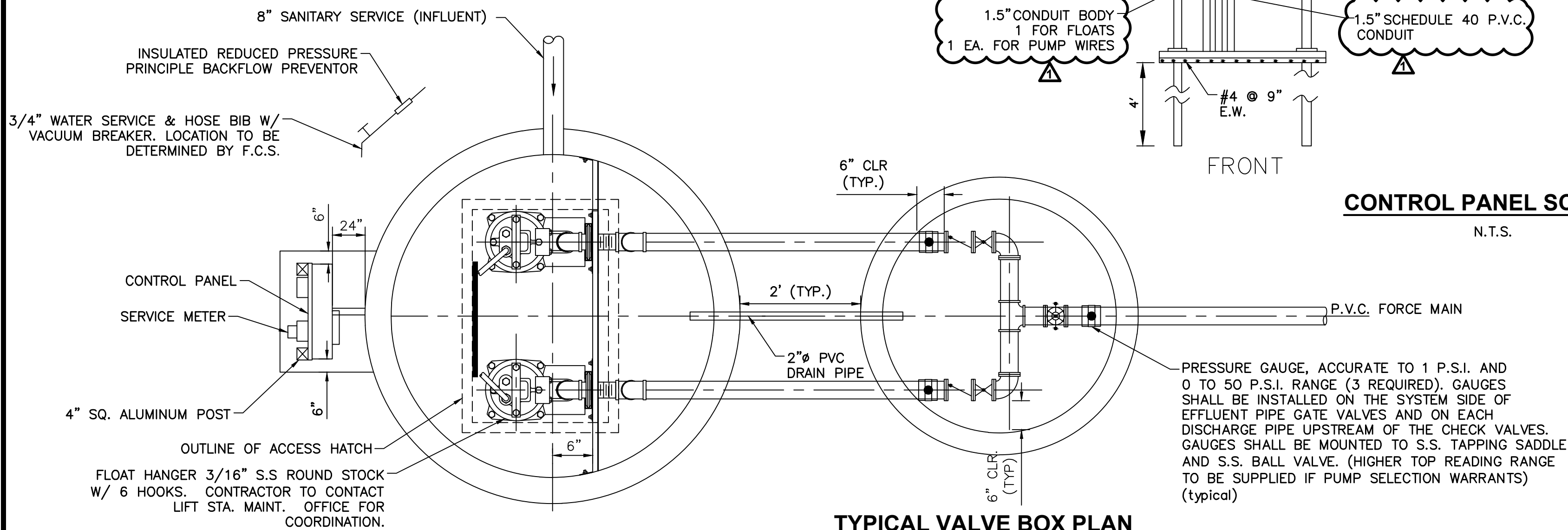
RELEASE FOR BID

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PUMPING STATION DATA	
Designation	
Pump model	BARNES SGV3032L
Impeller	4.5 IN
voltage (3 PHASE)	240 Volt
h.p.	2
r.p.m.	3450 R.P.M
Influent Size	6.00 IN
Force main	2.00 IN

PUMP STATION NOTE:

- PUMP SHALL BE FLYGT, KSB, ZOELLER, HYDRASERVICE, OR GRUMPHOS, PUMP STATION DATA ABOVE PROVIDED FOR PERFORMANCE CRITERIA ONLY.

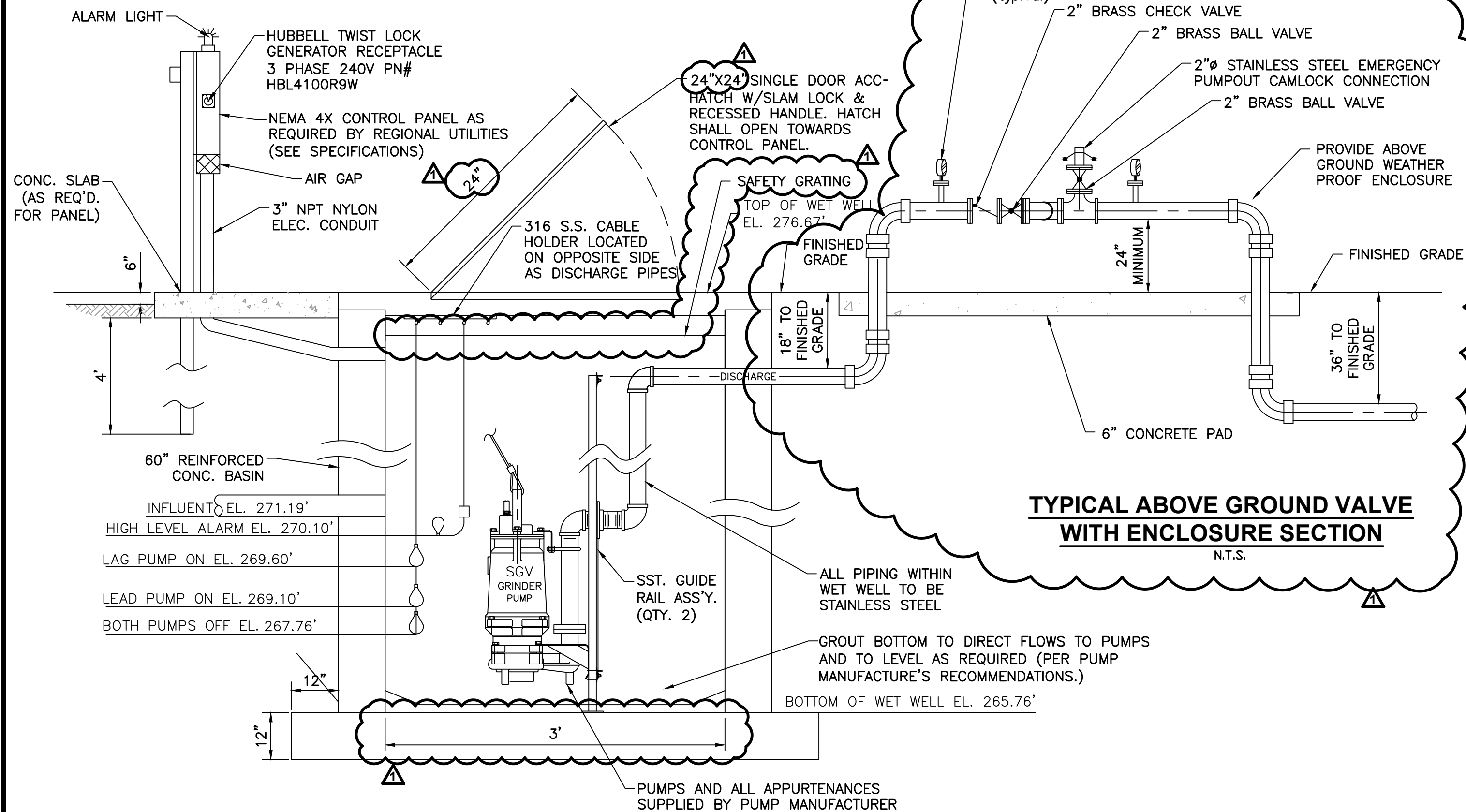


TYPICAL WET WELL PLAN

N.T.S.

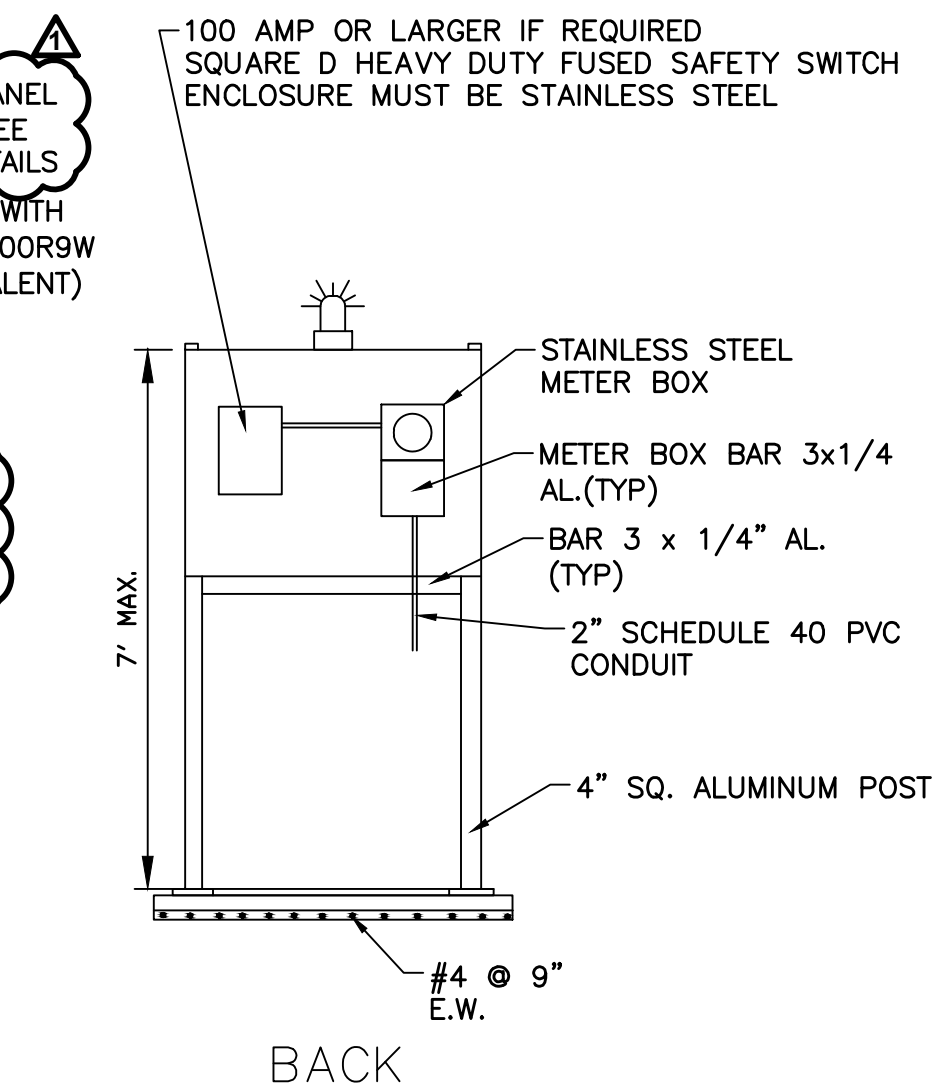
TYPICAL VALVE BOX PLAN

N.T.S. PRESSURE GAUGE, ACCURATE TO 1 P.S.I. AND 0 TO 50 P.S.I. RANGE (3 REQUIRED). GAUGES SHALL BE INSTALLED ON THE SYSTEM SIDE OF EFFLUENT PIPE GATE VALVES AND ON EACH DISCHARGE PIPE UPSTREAM OF THE CHECK VALVES. GAUGES SHALL BE MOUNTED TO S.S. TAPPING SADDLE AND S.S. BALL VALVE. (HIGHER TOP READING RANGE TO BE SUPPLIED IF PUMP SELECTION WARRANTS) (typical)



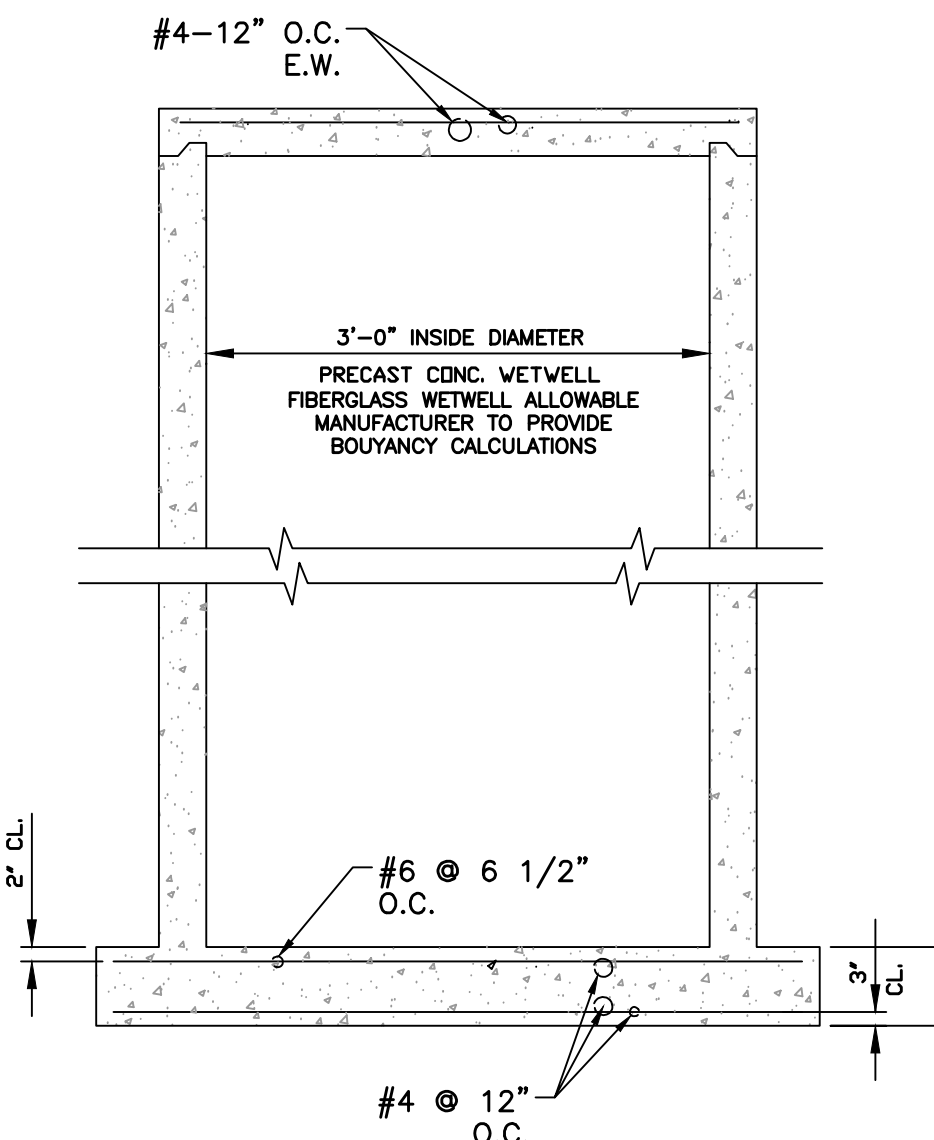
GRINDER LIFT STATION SECTION

N.T.S.



CONTROL PANEL SCHEMATIC

N.T.S.



TOP AND BOTTOM SLAB REINFORCING

GRINDER LIFT STATION

N.T.S.

GENERAL NOTES:

- WET WELL AND VALVE VAULT SHALL BE COATED WITH KOP-COAL TAR EPOXY 300-M INSIDE AND OUT. (TWO COATS, 9MILS EACH)
- BASE AND FIRST RISER UNIT TO BE CAT MONOLITHIC.
- VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE.
- ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL-SLEEVE OR NON-SHRINK.
- THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
- WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE SIZE AS REQUIRED BY PUMP MANUFACTURE AND APPROVED BY FLORIDA COMMUNITY SERVICES.
- FLEXIBLE COUPLING IF USED SHALL BE SLEEVE TYPE.
- ALL HARDWARE IN WET WELL AND VALVE BOX TO BE STAINLESS STEEL.
- ALL ENCLOSURES SHALL BE NEMA 3R OR BETTER EXCEPT CONTROL PANEL WHICH SHALL BE NEMA 4X.
- ALL MECHANICAL JOINT FITTINGS ON PRESSURE PIPE SHALL HAVE BOTH 'MEGALUG' TYPE JOINT RESTRAINING CLANDS AND THRUST BLOCKS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF REGIONAL UTILITIES STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
- ANY LOCATION WHERE PRESSURE PIPELINES CURVATURE EXCEEDS MANUFACTURES' SPECIFICATIONS; APPROPRIATE MECHANICAL JOINT FITTINGS SHALL BE USED.
- ALL 2-INCH VALVE SHALL BE BALL TYPE- 2 - INCH GATE VALVE SHALL NOT BE USED.
- ALL TIE IN TO EXISTING PRESSURIZED PIPELINES SHALL BE BY TAPPING SLEEVE (3 INCH TAP AND LARGER) (OR TAPPING SADDLE, 2 INCH TAP AND SMALLER) AND VALVE W/VALVE BOX.
- DEVELOPERS OF PRIVATE PROJECTS SHALL PROVIDE ALL WETLANDS PERMITS NECESSARY FOR UTILITY CONSTRUCTIONS.
- ALL GRINDER LIFT STATIONS LOCATED IN A PUBLIC RIGHT- OF- WAY MUST BE DESIGNED AND CONSTRUCTED OF REINFORCED CONCRETE AS PER THE SECTION TITLED 'STRUCTURAL AND OTHER NOTES' DETAILED BELOW.
- GRINDER LIFT STATION SHALL BE EQUIPPED WITH 3 HOOKS FOR THE STATION, ONE 5 HOOK FOR THE FLOATS, AND 2 SINGLE OR 2 HOOKS FOR PUMP CABLES.
- ALL FLOAT CONDUITS SHALL INCLUDE SWEEPS, NOT 90° ANGLES.
- LIFT STATION AND BYPASS PUMP SHALL BE FENCED AND ROCKED INSIDE THE FENCE.
- ALL VALVES SHALL BE AMERICAN DARLING OR MTH.

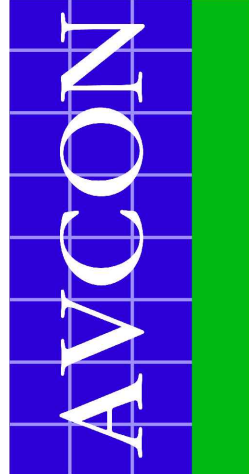
STRUCTURAL AND OTHER NOTES:

- CONCRETE: DESIGN PER CURRENT EDITION OF A.C.I (318-83). CONCRETE STRENGTH @ 28 DAYS IS: $F_c' = 3500$ PSI
CONCRETE MIX SHOULD NOT CONTAIN MORE THAN 5 GALLONS OF WATER PER SACK OF CEMENT. AGGREGATES SHOULD HAE LOW ABSORPTION AND SHOULD BE CLEAN, SOUND AND WELL GRADED FORM FINE TO COARSE. SAND MUST HAVE 10 TO 20 PERCENT OF PARTICLES PASSING A 50 MESH SIEVE. COASTE AGGREGATE MUST BE GRADED FROM 1/4" UP TO A MAXIMUM OF 2", KEEPING THE CONCRETE CURED FOR ATLEAST 7 DAYS IS ADVISABLE. REINFORCING ASTM A-615, GRADE 60.
- CLEAR COVER FOR BASE SLAB - 3" FOR BOTTOM BARS AND - 2" FOR TOP BARS.
- CLEAR COVER FOR TOP SLAB - 2" FOR TOP & BOTTOM BARS.
- CLEAN SAND BACKFILL WITH A FRICTION FACTOR OF 30° ROUND AND WEIGHING 120 PCF TO 130 PCF IS ASSUMED. THE DESIGN IS BASED ON A SUBMERGED CONDITION.
- ALL REINFORCING SHALL BE SECURELY HELD IN POSITION WITH STANDARD ACCESSORIES DURING THE PLACING OF CONCRETE.
- SPLICES IN REINFORCEMENT AR ENOT PERMITTED
- IF FOTTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.
- MAXIMUM DESIGN SOIL PRESSURE ASSUMED = 2000 PSF.
- ALL GRAVITY SEWER AND SEWER SERVICES SHALL HAVE CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 30 INCHES UNDER PAVEMENT OR LESS THAN 18 INCHES IN GREEN AREAS.
- AT ALL HIGH POINTS CREATED DURING FORCE MAIN CONSTRUCTION, AIR RELEASE VALVES SHALL BE CONSTRUCTED.
- EXTERNAL DROP TYPE MANHOLES ARE REQUIRED WHERE MANHOLE INVERT ELEVATIONS VARY BY OVER TWO FEET.
- MANHOLE TOPS IN GREEN AREAS SHALL BE ELEVATED TO PROHIBIT STORMWATER ENTRY.
- SEWER SERVICES SHALL BE CONSTRUCTED AT THE LOWER SIDE OF LOTS AS MAY BE APPLICABLE.

BYPASS PUMP NOTES:

- CONTRACTOR SHALL INSTALL A GODWIN MODEL CDB08M DRI-PRIME PUMP.
- BYPASS PUMP SHALL BE NATURAL GAS. THE CITY WILL PROVIDE GAS TO THE PUMP LOCATION.
- PIPING FOR BYPASS PUMP MUST INCLUDE A TEE END VALVE ON THE SUCTION AND DISCHARGE LINE IN CASE THE BYPASS PUMP FAILS.
- FLOAT CONDUIT MUST BE 2" AND INCLUDE SWEEPS INSTEAD OF 90° BENDS.
- BYPASS PIPING SHALL BE SS (304), HDPE (DIPS), OR DUCTILE IRON.
- BYPASS PAD MUST BE AT LEAST 6" AND FIBER CONCRETE.

ATTACHMENT B



TRANSFORMING TODAY'S IDEAS
INTO TOMORROW'S REALITY

JOHN R. COLLINS
FL LICENSE NO.: 75419
FBPR CERTIFICATE OF
AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
1	3/4/22	ADDENDUM NO. 3	

GRINDER PUMP
DETAILS

RELEASE FOR BID

AIRPORT TERMINAL
AND HANGAR
DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: J.C.
DRAWN BY: D.F.
CHECKED BY: T.N.
APPROVED BY: V.L.
PROJECT NO: 2019.028.01
DATE: NOVEMBER 2021

SHEET NUMBER

C-15

RELEASE FOR BID

[illegible]

QTY	PART NO	DESCRIPTION
1	1766-1-32AIVA	MICROLOGIX 1100
1	1762-1F4	ANALOG MODULE
1	PSB24-060-P	24VDC POWER SUPPLY
1	FA-RC03	120V RECEPTACLE
1	140-5048-302	CALAMP RADIO
1	FAZ-D1S-1-NA-SP	CIRCUIT BREAKER, 15A
1	SDU-500A	UPS
6	DN-T10-A	TERMINAL BLOCK
5	DN-D1310NM	FUSED TERMINAL BLOCK
1	N412302408C	ENCLOSURE
1	PN3024C	ENCLOSURE BACKPANEL
2	T1E-1022G-1	WIRING DUCT
1	EC2GB152	GROUND BAR

PROPRIETARY INFORMATION	DRAWN BY	DATE	SCALE	DWG NO	CUSTOMER
This drawing and all proprietary rights and concepts herein are the exclusive property of dsa Automation, LLC and are not to be used, duplicated or treated in anyway inconsistent with such rights without permission of dsa Automation, LLC	MCN	11/01/2019	N/A	0100	City of Defuniak Springs Lift Station LS-9
	DESCRIPTION PANEL LAYOUT - LIFT STATION PUMPING STATION				

Figure 1: Micrologix 1400 Base Inputs

The diagram illustrates the wiring for the base inputs of a Micrologix 1400 PLC. The PLC module is shown with inputs IN0 through IN11 and common terminals COM0 through COM3. The inputs are connected to various sensors and alarms as follows:

- IN0: PUMP 1 RUN
- IN1: PUMP 2 RUN
- IN2: PUMP 3 RUN
- IN3: HIGH LEVEL ALARM
- IN4: MAIN PWR LOSS ALARM
- IN5: GENERATOR
- IN6: ATS
- IN7: 120V SCADA PWR ALARM
- IN8: SPARE
- IN9: SPARE
- IN10: SPARE
- IN11: SPARE

The common terminals are connected to the neutral (N1) line:

- COM0: N1
- COM3: N1

The terminal blocks are labeled 1003A on the left and 1003A on the right. The right terminal block also shows SPARE inputs for IN12 through IN15.

PROPRIETARY INFORMATION	DRAWN BY	DATE	SCALE	DWG NO	CUSTOMER
This drawing and all proprietary rights and concepts herein are the exclusive property of dsa Automation, LLC and are not to be used, duplicated or treated in any way inconsistent with such rights without permission of dsa Automation, LLC	MC	11/01/2019	N/A	0100	City of Defuniak Springs
	DESCRIPTION PLC INPUT DETAIL				Lift Station 9

<p>PROPRIETARY INFORMATION</p> <p>This drawing and all proprietary rights and concepts herein are the exclusive property of dsa Automation, LLC and are not to be used, duplicated or treated in anyway inconsistent with such rights without permission of dsa Automation, LLC</p>	<p>DRAWN BY MC</p> <p>DATE 11/01/2019</p> <p>DESCRIPTION WIRING DIAGRAM</p>	<p>SCALE N/A</p> <p>DWG NO 1001</p>	<p>CUSTOMER <i>City of Defuniak Springs</i> <i>Lift Station 9</i></p>
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JOHN R. COLLINS
FL LICENSE NO.: 75419
FBPR CERTIFICATE OF
AUTHORIZATION NO. 5057

1.	3/4/22	ADDENDUM NO. 3	MAB
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NO.	DATE	REVISION	BY

LIFT STATION AND SCADA PANEL DETAILS

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: J.C.
DRAWN BY: D.F.
CHECKED BY: T.N.
APPROVED BY: V.L.
PROJECT NO: 2019.028.01
DATE: NOVEMBER 2021

SHEET NUMBER
C-15A

NEW SHEET PER ADDENDUM NO. 3

RELEASE FOR BID