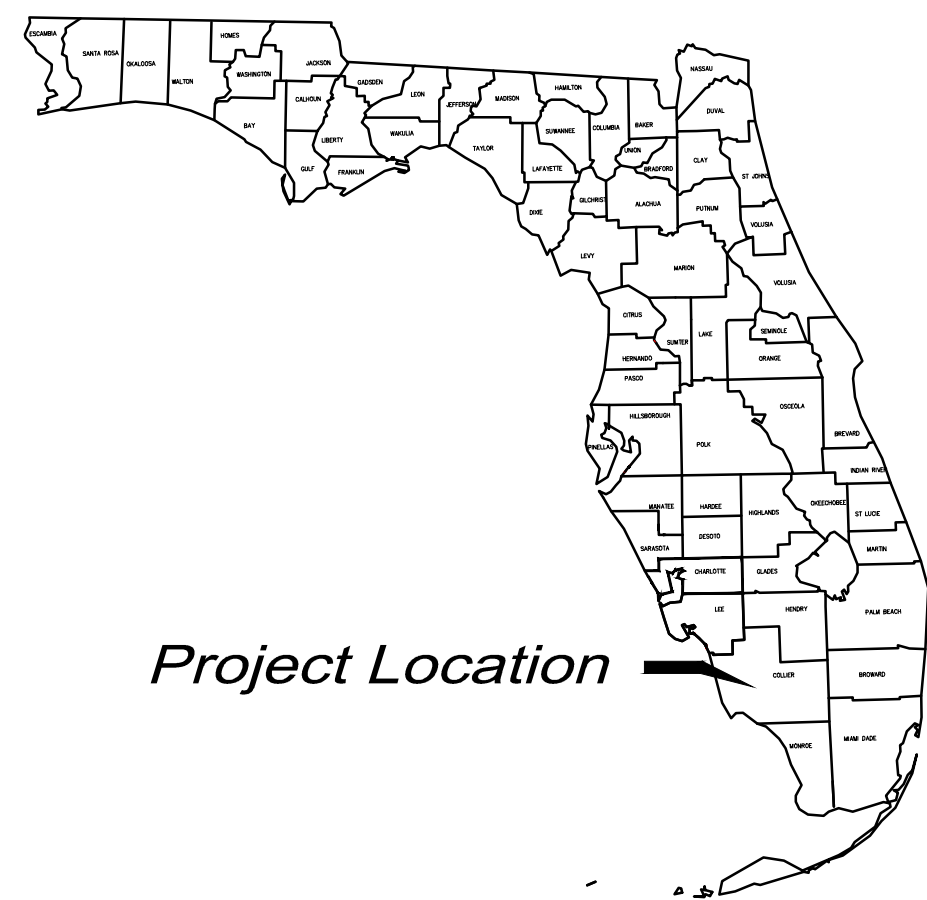


EMS 74 GOLDEN GATE ESTATES UTILITY IMPROVEMENTS COLLIER COUNTY FLORIDA

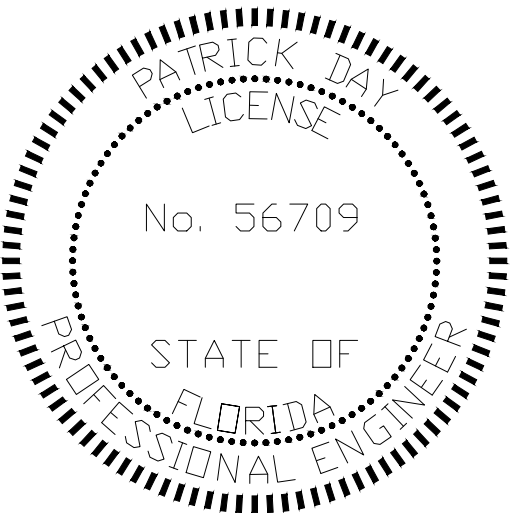


VICINITY MAP

NOT TO SCALE

PROJECT SHEET INDEX

- C1.0 COVER SHEET AND INDEX OF DRAWINGS
- C2.0 SITE PLAN
- C3.0 UTILITY SITE PLAN
- C4.0 AERIAL MAP
- C5.0 FLOW DIAGRAM
- C5.1 DETAILS



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

DRMP, INC.
1404 DEAN STREET SUITE 101
Fort Myers, fl 33901
Phone: (239) 206-5093
Certificate Of Authorization No. 2648
PATRICK DAY, P.E.
LICENSE NO. 56709

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE
RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH
RULE 61G15-23.004, F.A.C.



1404 DEAN STREET SUITE 101, FORT MYERS, FL 33901

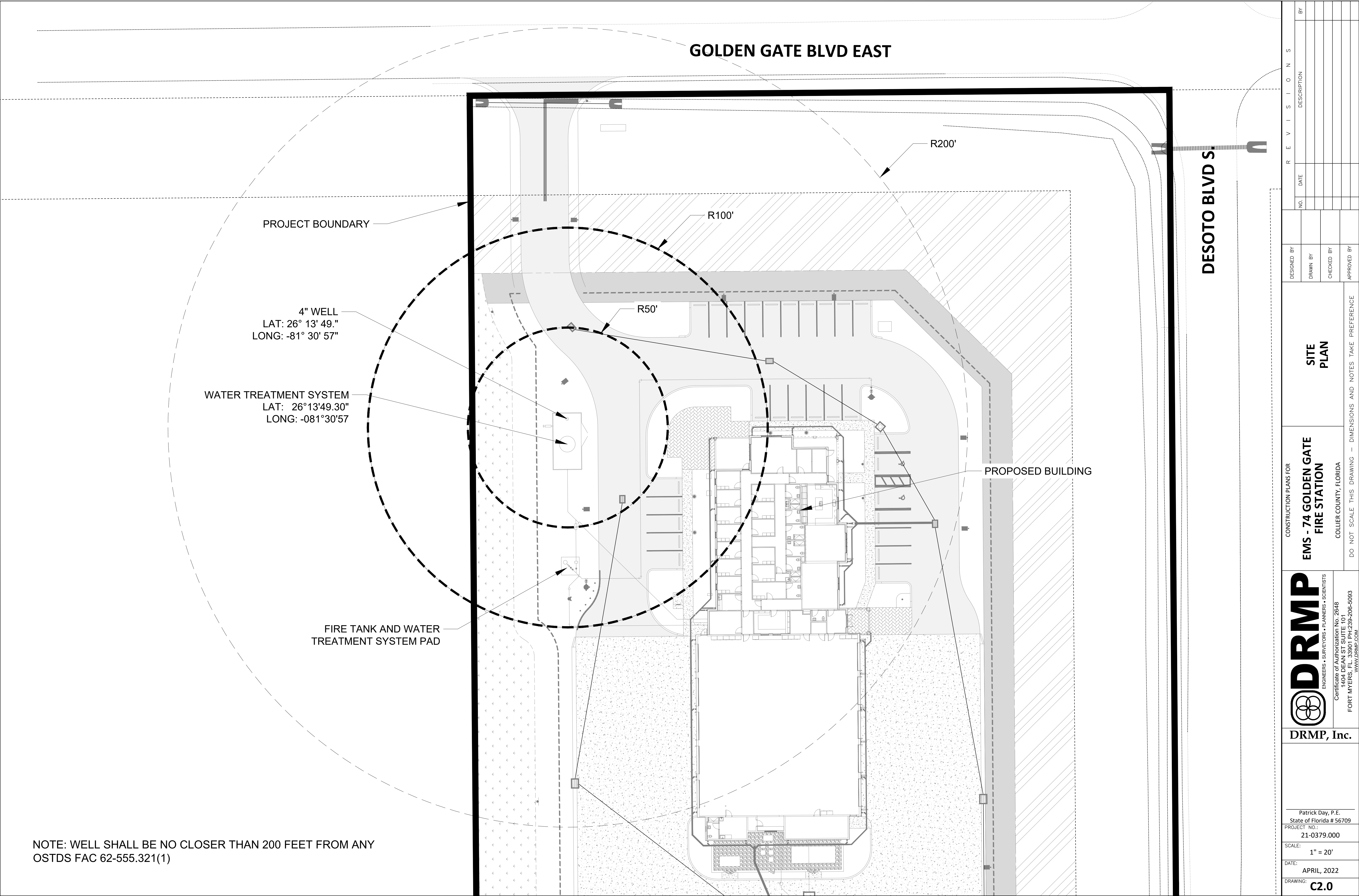
APRIL, 2022

DRMP PROJECT NO. 21-0379.000

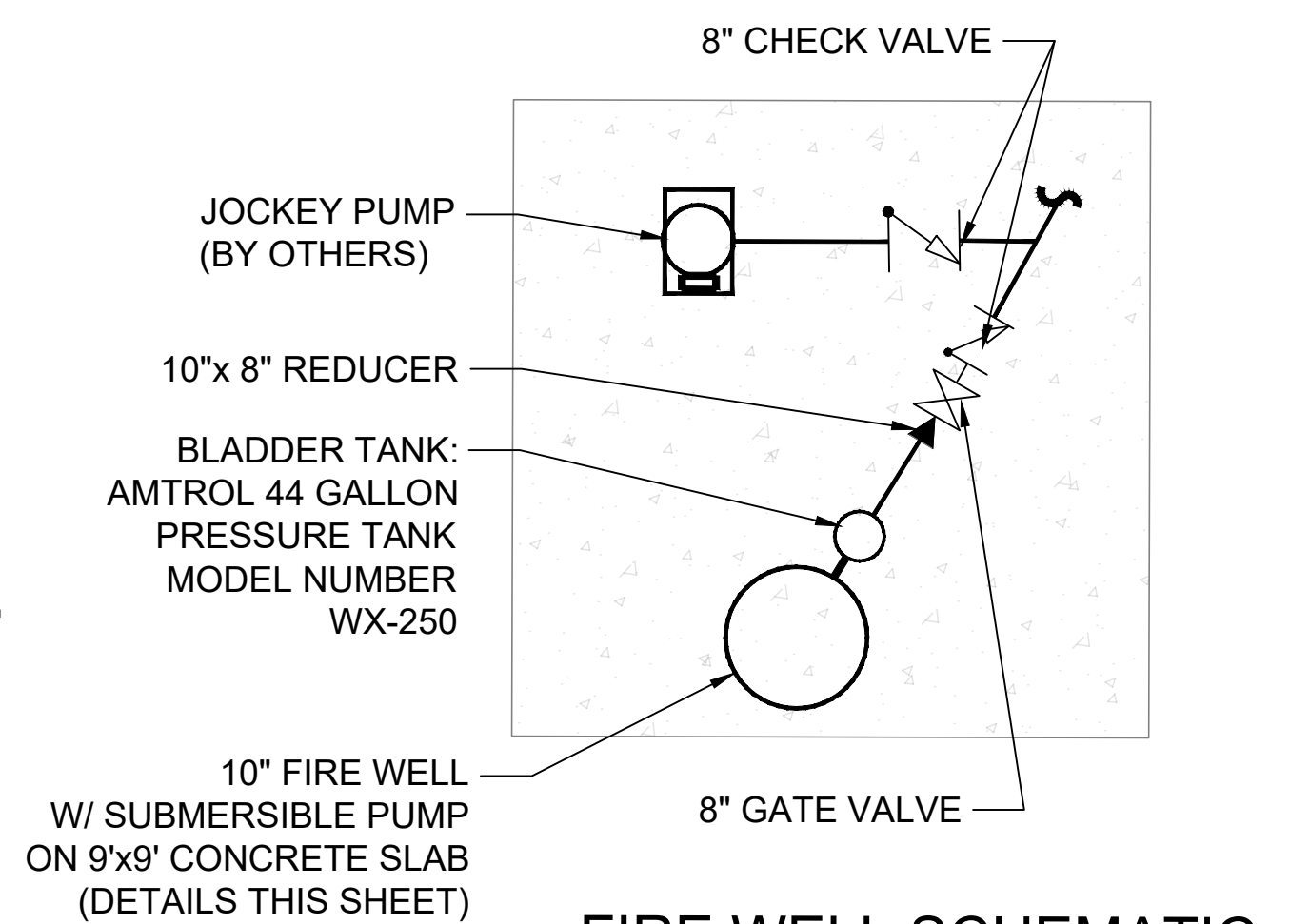
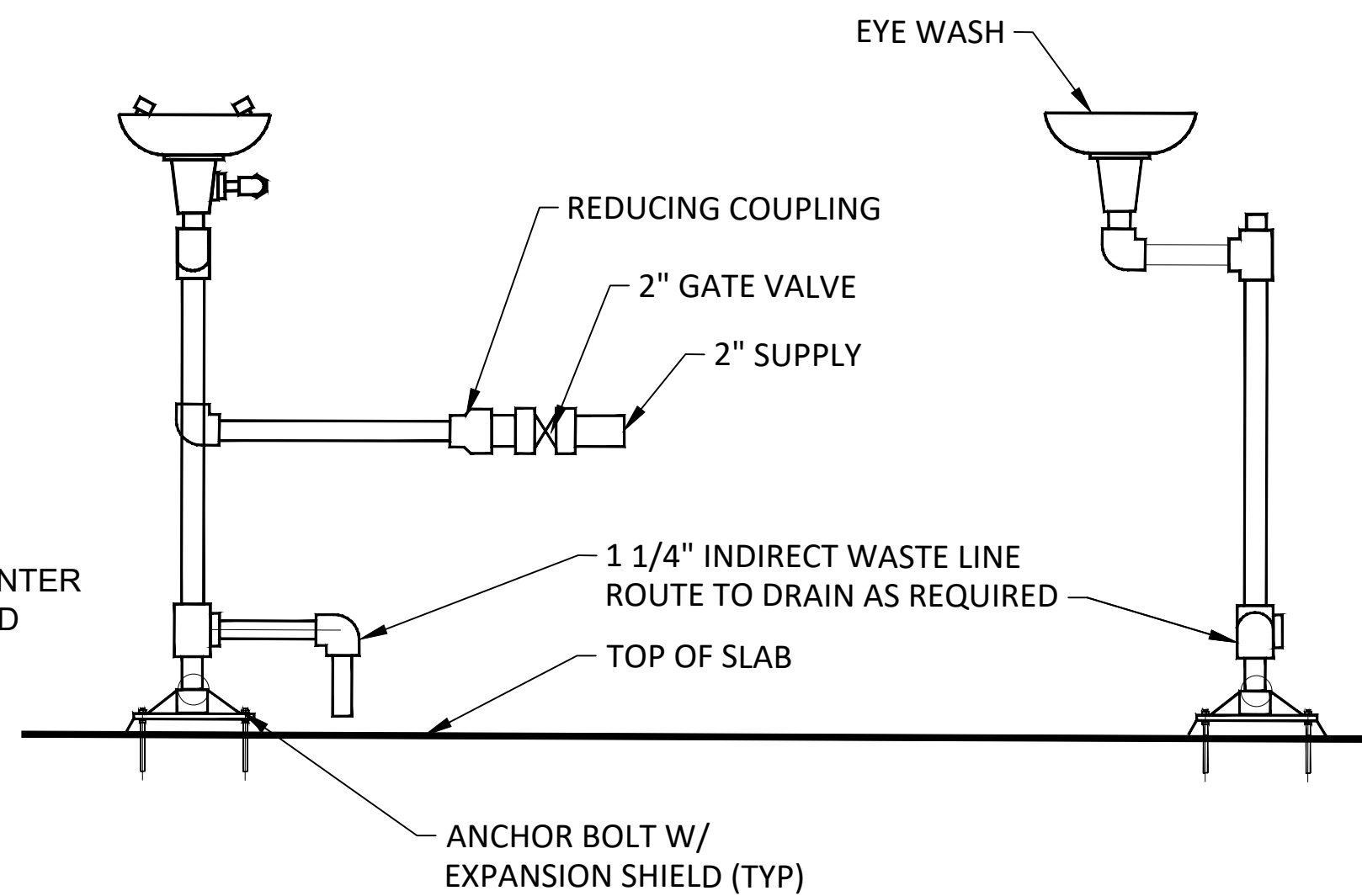
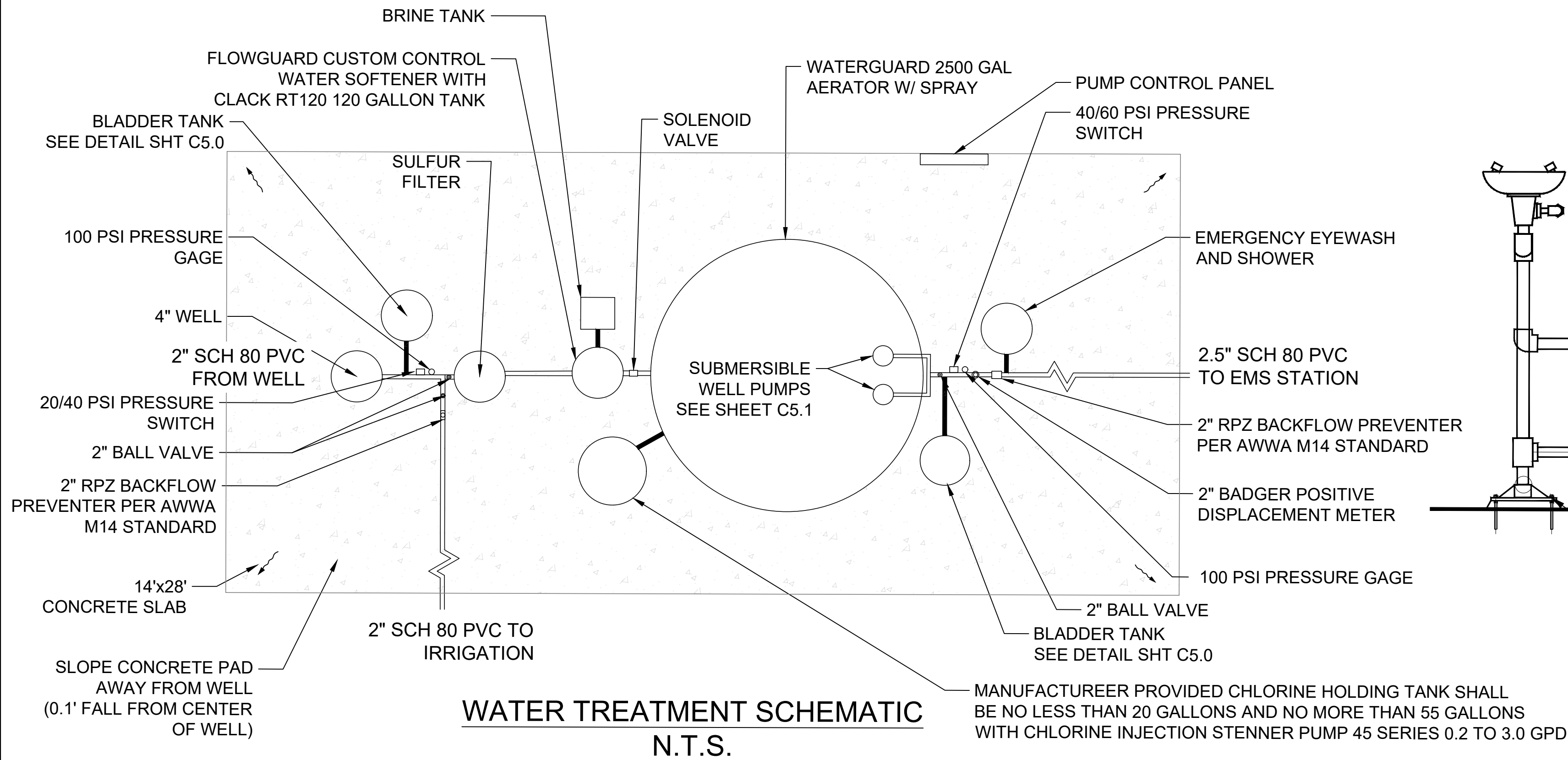
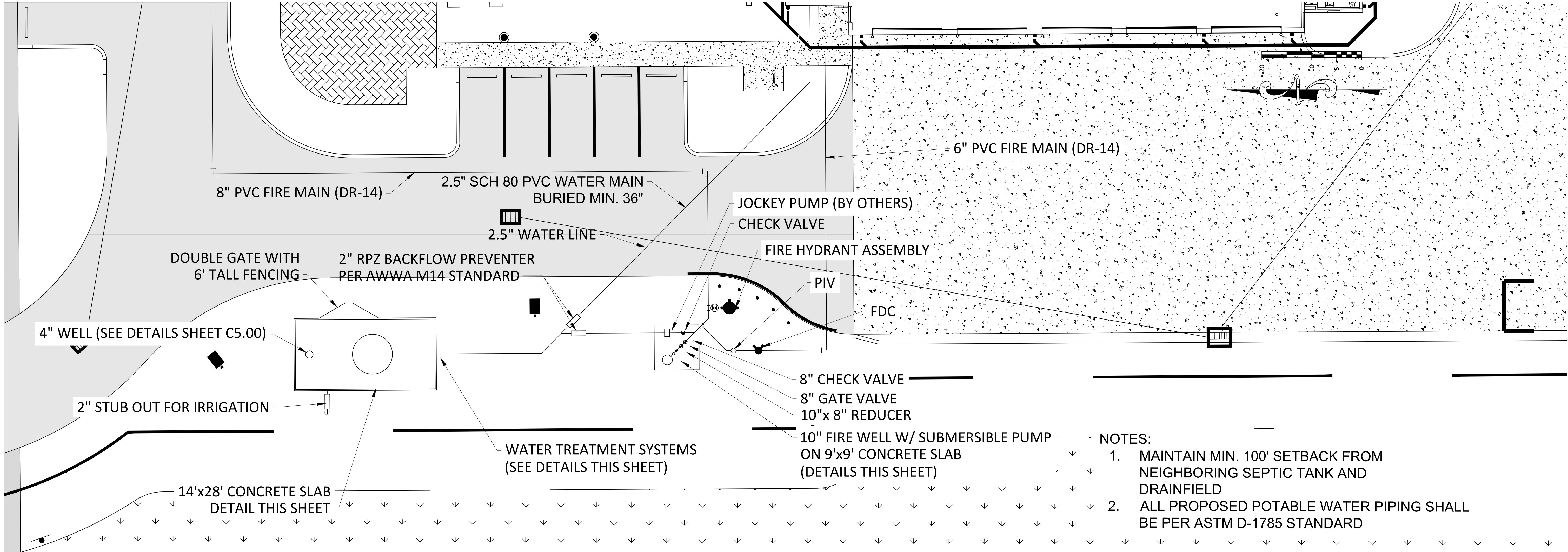
NOTE:
ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN ALTERED IN
SIZE BY REPRODUCTION. THIS MUST BE
CONSIDERED WHEN OBTAINING SCALED DATA.

CONSULTANT CONTACTS:

CIVIL ENGINEERING
DRMP, INC.
1404 DEAN STREET SUITE 101
FORT MYERS, FL 33901
PATRICK DAY 239-206-5093



REVISIONS		NO.	DATE	DESCRIPTION	BY
CONSTRUCTION PLANS FOR EMS - 74 GOLDEN GATE FIRE STATION COLLER COUNTY, FLORIDA		DESIGNED BY			
		DRAWN BY			
		CHECKED BY			
DRMP, Inc. Patrick Day, P.E. State of Florida # 56709 PROJECT NO.: 21-0379.000 SCALE: 1" = 20' DATE: APRIL, 2022 DRAWING: C2.0		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE			
		ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS 1404 DEAN ST SUITE 101 FORT MYERS, FL 33901 PH:239-206-5093 WWW.DRMP.COM			
SITE PLAN					



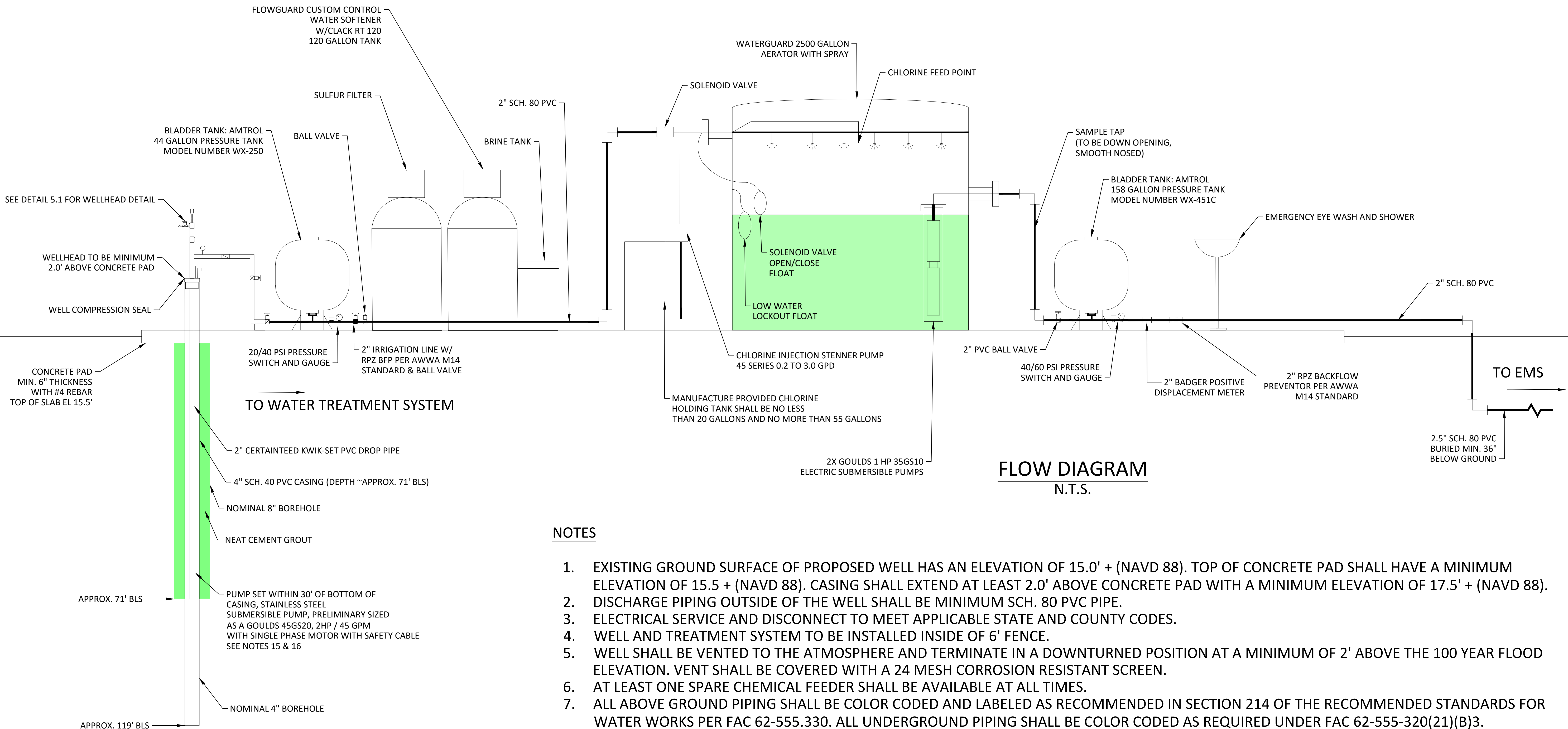
Piping Layout	
115 LF	2.5" PVC SCH 80
28 LF	2" PVC SCH 80
40 LF	8" PVC SCH 80
5 LF	10" PVC SCH 80

REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY		APPROVED BY	
DESCRIPTION		DATE		DATE		DATE		DATE	
NO.									
CONSTRUCTION PLANS FOR		UTILITY SITE PLAN		EMS - 74 GOLDEN GATE FIRE STATION		COLLER COUNTY, FLORIDA		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE	
DRMP		ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS		Certificate of Authorization No. 2648 1404 DEAN ST SUITE 101 FORT MYERS, FL 33901 PH:239-206-5093 WWW.DRMP.COM		DRMP, Inc.		Patrick Day, P.E. State of Florida # 56709 PROJECT NO.: 21-0379.000 SCALE: 1" = 10' DATE: APRIL, 2022 DRAWING: C3.0	



NOTE: WELL SHALL BE NO CLOSER THAN 200 FEET FROM ANY
OSTDS FAC 62-555.321(1)

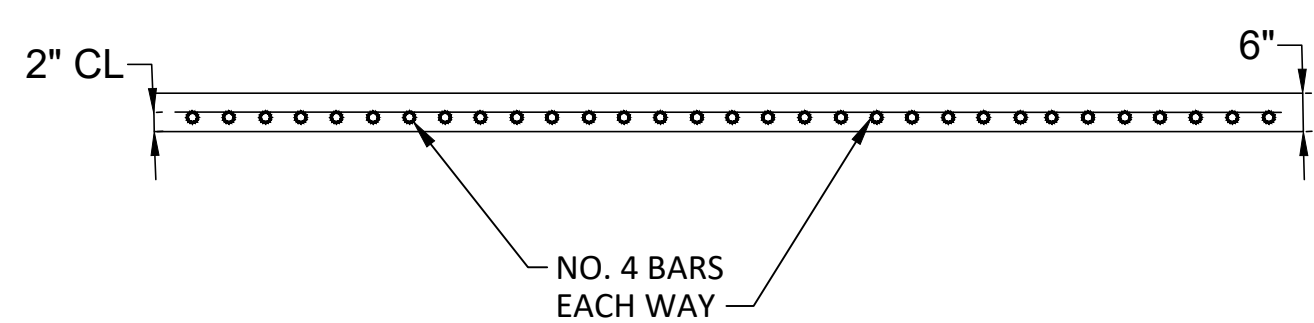
 DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS		Certificate of Authorization No. 2648 Professional Seal FORT MYERS, FL 33901 PH: 239-206-5093 WWW.DRMP.COM		CONSTRUCTION PLANS FOR EMS - 74 GOLDEN GATE FIRE STATION COLLER COUNTY, FLORIDA		AERIAL		DESIGNED BY				NO.		DATE		DESCRIPTION		BY	
								DRAWN BY											
								CHECKED BY											
								APPROVED BY											
DO NOT SCALE THIS DRAWING — DIMENSIONS AND NOTES TAKE PREFERENCE																			
DRMP, Inc.																			
Patrick Day, P.E. State of Florida # 56709																			
PROJECT NO.: 21-0379.000																			
SCALE: 1" = 50'																			
DATE: APRIL, 2022																			
DRAWING: C4.0																			



FLOW DIAGRAM
N.T.S.

NOTES

- EXISTING GROUND SURFACE OF PROPOSED WELL HAS AN ELEVATION OF 15.0' + (NAVD 88). TOP OF CONCRETE PAD SHALL HAVE A MINIMUM ELEVATION OF 15.5 + (NAVD 88). CASING SHALL EXTEND AT LEAST 2.0' ABOVE CONCRETE PAD WITH A MINIMUM ELEVATION OF 17.5' + (NAVD 88).
- DISCHARGE PIPING OUTSIDE OF THE WELL SHALL BE MINIMUM SCH. 80 PVC PIPE.
- ELECTRICAL SERVICE AND DISCONNECT TO MEET APPLICABLE STATE AND COUNTY CODES.
- WELL AND TREATMENT SYSTEM TO BE INSTALLED INSIDE OF 6' FENCE.
- WELL SHALL BE VENTED TO THE ATMOSPHERE AND TERMINATE IN A DOWNTURNED POSITION AT A MINIMUM OF 2' ABOVE THE 100 YEAR FLOOD ELEVATION. VENT SHALL BE COVERED WITH A 24 MESH CORROSION RESISTANT SCREEN.
- AT LEAST ONE SPARE CHEMICAL FEEDER SHALL BE AVAILABLE AT ALL TIMES.
- ALL ABOVE GROUND PIPING SHALL BE COLOR CODED AND LABELED AS RECOMMENDED IN SECTION 214 OF THE RECOMMENDED STANDARDS FOR WATER WORKS PER FAC 62-555.330. ALL UNDERGROUND PIPING SHALL BE COLOR CODED AS REQUIRED UNDER FAC 62-555-320(21)(B)3.
- ALL SAMPLING TAPS SHALL BE DOWN OPENING, SMOOTH NOSED AND A MINIMUM DISTANCE OF 12" ABOVE THE GROUND SURFACE.
- JOB SITE IS WITHIN THE AH FLOOD ZONE WITH NO BASE FLOOD ELEVATION DETERMINED.
- WATER TREATMENT SYSTEM AREA SHALL PROVIDE ADEQUATE SPACE FOR MAINTENANCE ACTIVITIES AND STORAGE OF REPLACEMENT PARTS AND MATERIALS.
- THE WELL AND TREATMENT SYSTEM GATES SHALL UTILIZE THE SAME KEY. KEYS SHALL BE PROVIDED TO THE OWNER AND SYSTEM MAINTENANCE PERSONNEL.
- RETENTION TANKS SHALL BE CONNECTED OR PROVIDE APPURTENANCES TO PROVIDE MAXIMUM CONTACT TIME.
- BACKFLOW PREVENTION DEVICES SHALL BE PROVIDED BETWEEN THE FIRE WATER TANKS, THE IRRIGATION SYSTEM, AND THE WATER TREATMENT SYSTEM AND SHALL MEET AWWA M14 STANDARD.
- THE WELL SHALL BE DISINFECTED IN ACCORDANCE WITH SECTIONS 1 THROUGH 4 AND SECTION 5.2 OF THE AMERICAN WATER WORKS ASSOCIATION STANDARD.
- WELL CONSTRUCTION DETAILS (INCLUDING CASING INTERVAL AND TOTAL DEPTH) AND FINAL PUMP SELECTION SHALL BE BASED UPON SITE SPECIFIC CONDITIONS.
- UPON COMPLETING CONSTRUCTION OF THE SUPPLY WELL, A SPECIFIC CAPACITY TEST SHALL BE PERFORMED ON THE WELL TO ENABLE A FINAL WELL PUMP SELECTION.



SLAB DETAIL
N.T.S.

R E V I S I O N S		BY		DESCRIPTION	
NO.	DATE				
DESIGNED BY		DRAWN BY		CHECKED BY	
APPROVED BY					

CONSTRUCTION PLANS FOR		FLOW DIAGRAM	
EMS - 74 GOLDEN GATE FIRE STATION			
COLLIER COUNTY, FLORIDA			
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE			

DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS 1404 DEAN ST SUITE 101 FORT MYERS, FL 33901 PH:239-206-5093 WWW.DRMP.COM	Patrick Day, P.E. State of Florida # 56709	
	PROJECT NO.: 21-0379.000	
	SCALE: NONE	
	DATE: APRIL, 2022	

DRAWING: C5.0	
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Product Name:	DWT - Deep Well Lineshaft Turbine		
Product Id:	DWT	Quote Number	9003-210924-008



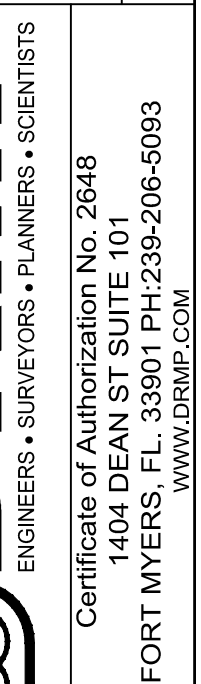
Well Pad Surface
Elev. +15.5 ft NAVD88'

4" Schedule 40 PVC Well Casing
Grouted to approximately 71 ft bls.
Top of Casing shall extend to a
Minimum Elevation of +17.5 ft NAVD88.
Total Well Depth is approximately
119 ft below land surface.

- 1.) Concrete pad shall be a minimum 6ft x 6ft centered around the well casing. The bottom surface of the concrete apron shall be constructed on top of the finished grade, and the top surface of the concrete apron shall be sloped to drain away from the well casing.
- 2.) The well seal shall be equipped with a sealable opening that will allow introduction of disinfectants and measurement of static water level and drawdown.
- 3.) All components (pipe, valves, fittings, etc.) that come into contact with the raw water shall be NSF Approved.
- 4.) The top of the well casing shall extend to a minimum elevation of +17.5 ft NAVD88.
- 5.) Well to be cased & grouted to approximately 71 ft bls.
- 6.) Total well depth is estimated to be 119 ft bls.
- 7.) Well construction details (including casing interval and total depth) and final pump selection shall be based upon site specific conditions.
- 8.) Upon completing construction of the supply well, a specific capacity test shall be performed on the well to enable a final well pump selection.

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	560	600
35GS10	1	0		49	46	42	38	33	26	15																				
		20	44	40	36	31	23	11																						
		30	40	36	30	22																								
		40	35	29	20																									
		50	28	18																										
		60	16																											
Shut-off PSI			69	60	52	43	34	26	17	8																				
35GS15	1½	0				48	46	43	40	37	33	29	23	14																
		20	47	45	43	39	36	32	28	21	10																			
		30	45	42	39	35	32	27	19																					
		40	42	38	35	31	26	18																						
		50	38	34	30	25	16																							
		60	34	29	24	15																								
Shut-off PSI			97	88	79	71	62	53	45	36	27	19	10																	
35GS20	2	0				50	48	46	44	42	39	37	34	30	26	20	12													
		20	49	47	45	43	41	38	36	33	29	24	17																	
		30	47	45	43	40	38	35	32	28	23	16																		
		40	44	42	40	38	35	32	27	22	15																			
		50	42	40	37	34	31	27	21	14																				
		60	39	37	34	30	26	20	12																					
Shut-off PSI			123	114	105	97	88	79	71	62	53	45	36	27	19	10														
35GS30	3	0					50	48	47	45	44	42	41	39	38	36	34	31	28	25	21	16	10							
		20		49	48	46	45	43	42	40	39	37	35	33	30	27	24	19	14											
		30	49	47	46	45	43	42	40	39	37	35	33	30	27	23	18	13												
		40	47	46	44	43	41	40	38	37	35	32																		

DO NOT SCALE THIS DRAWING – DIMENSIONS AND NOTES TAKE PREFERENCE

DRAWING: **C5.1**