VILLAGE OF OCEAN BEACH WATER DEPARTMENT

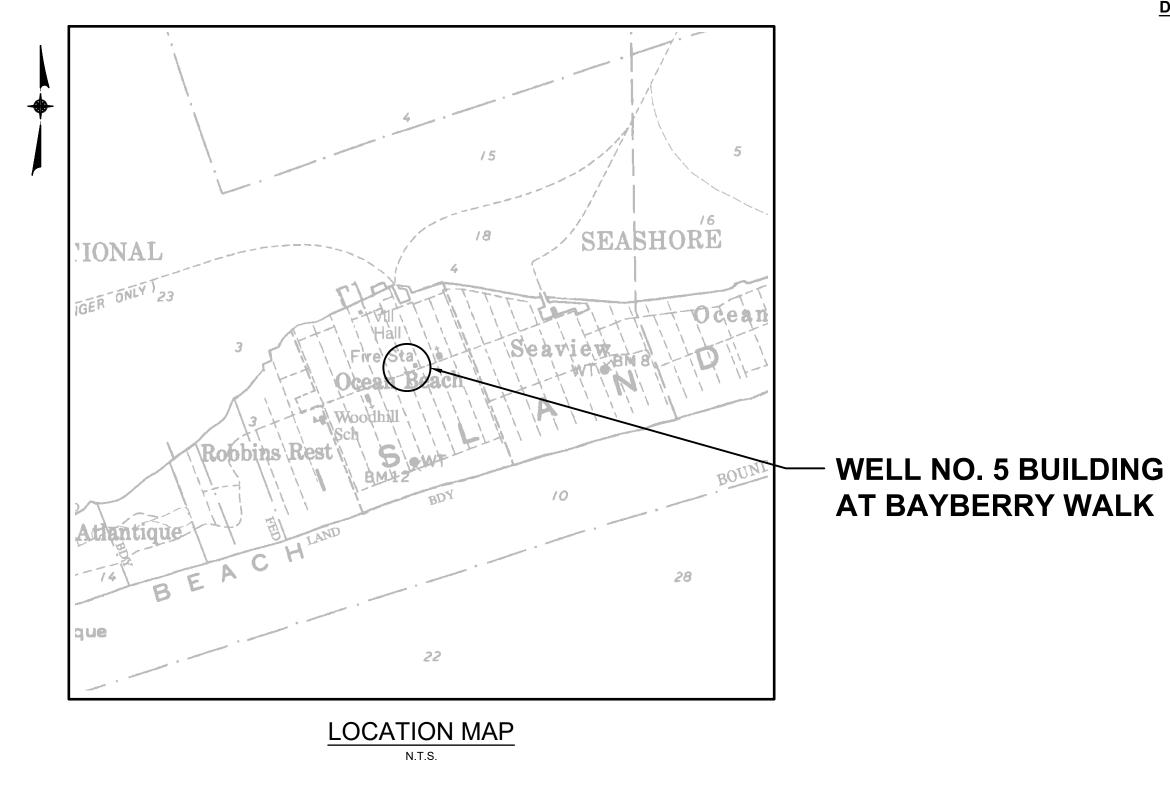
SUFFOLK COUNTY, NEW YORK



CONSTRUCTION OF WELL STATION NO. 5

OCEAN BEACH, NY

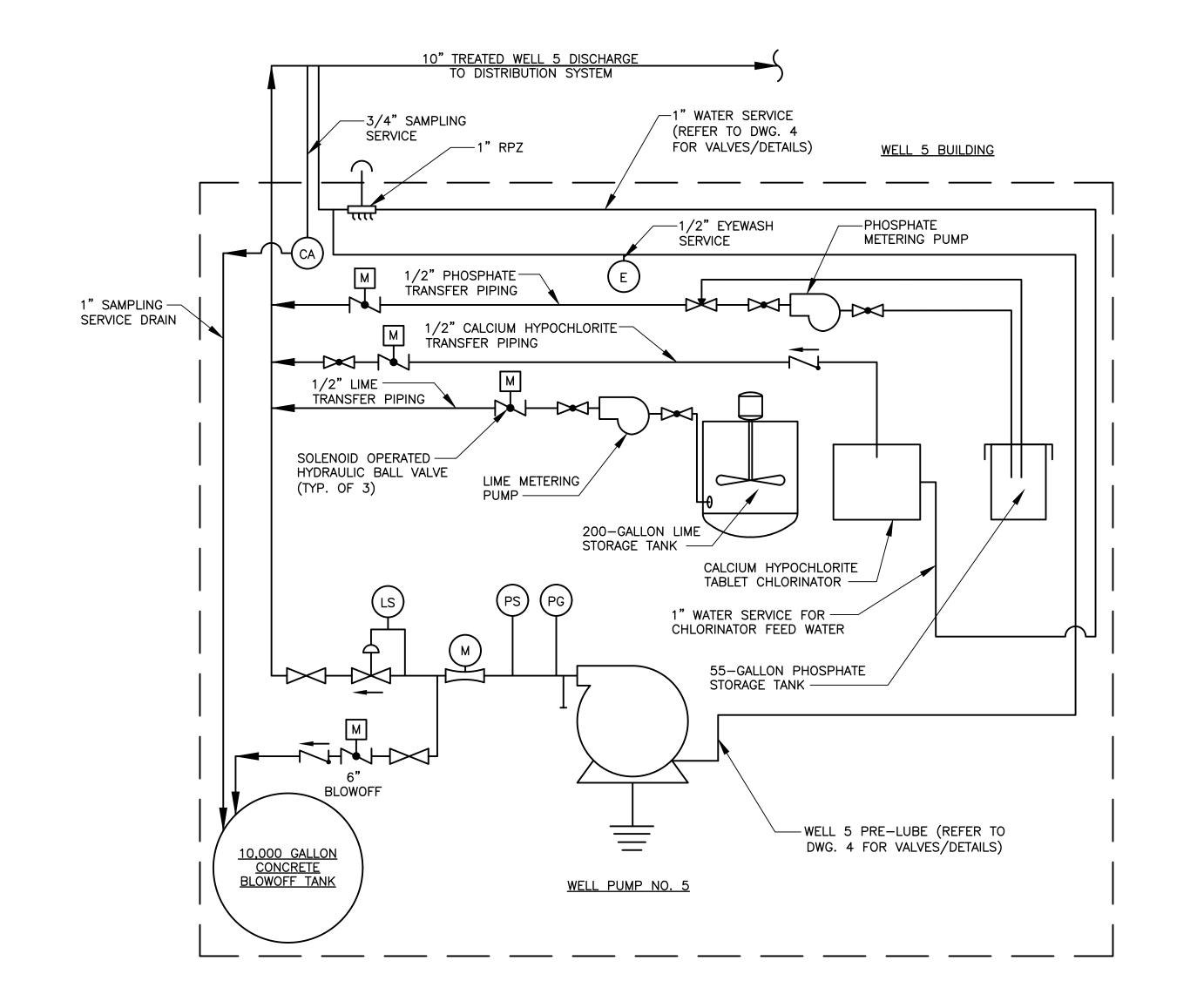
JUNE 2017



LIST OF DRAWINGS

	COVER SHEET
1	PROPOSED SCHEMATIC
2	WELL NO. 5 BUILDING FLOOR PLAN
3	DETAILS I
4	DETAILS II
5	DETAILS III
E1	WELL NO. 5 BUILDING POWER PLAN
E2	MOTOR CONTROL CENTER MCC-5 ELEVATION AND SINGLE LINE DIAGRAM
E3	CHEMICAL SAFETY SYSTEM RISER DIAGRAM
E4	WIRING DIAGRAM AND DETAILS

D&B ENGINEERS AND ARCHITECTS, P.C.



LEGEND:

LS LIMIT SWITCH

PS PRESSURE SWITCH

PRESSURE GAUGE

(FS) FLOW SWITCH

FLOW METER

S SOLENOID VALVE

SOLENOID VALV

BALL VALVE

SAMPLE TAP

CHECK VALVE

. GATE VALVE

HYDRAULIC CONTROL VALVE

MOTORIZED BUTTERFLY VALVE

BUTTERFLY VALVE

REDUCER

RPZ

CA CHEMICAL ANALYZER

E EMERGENCY EYEWASH/SHOWER

M METER

HOSE BIBB W/ VACUUM BREAKER

__ EXISTING

PROPOSED

					ADDITION TO THIS	ALTERATION OR S DOCUMENT IS A CTION 7209 OF THE EDUCATION LAW.
				DRAFI	PROJECT ENGINEER: SP	DRAWN BY: JG
					DESIGNED BY:	CHECKED BY:
NO.	DATE	REVISION	INT.		JG	WDM



VILLAGE OF OCEAN BEACH

SUFFOLK COUNTY WATER DEPARTMENT NEW YORK

CONSTRUCTION OF WELL STATION NO. 5

PROPOSED SCHEMATIC

MECHANICAL

PROJECT NO.

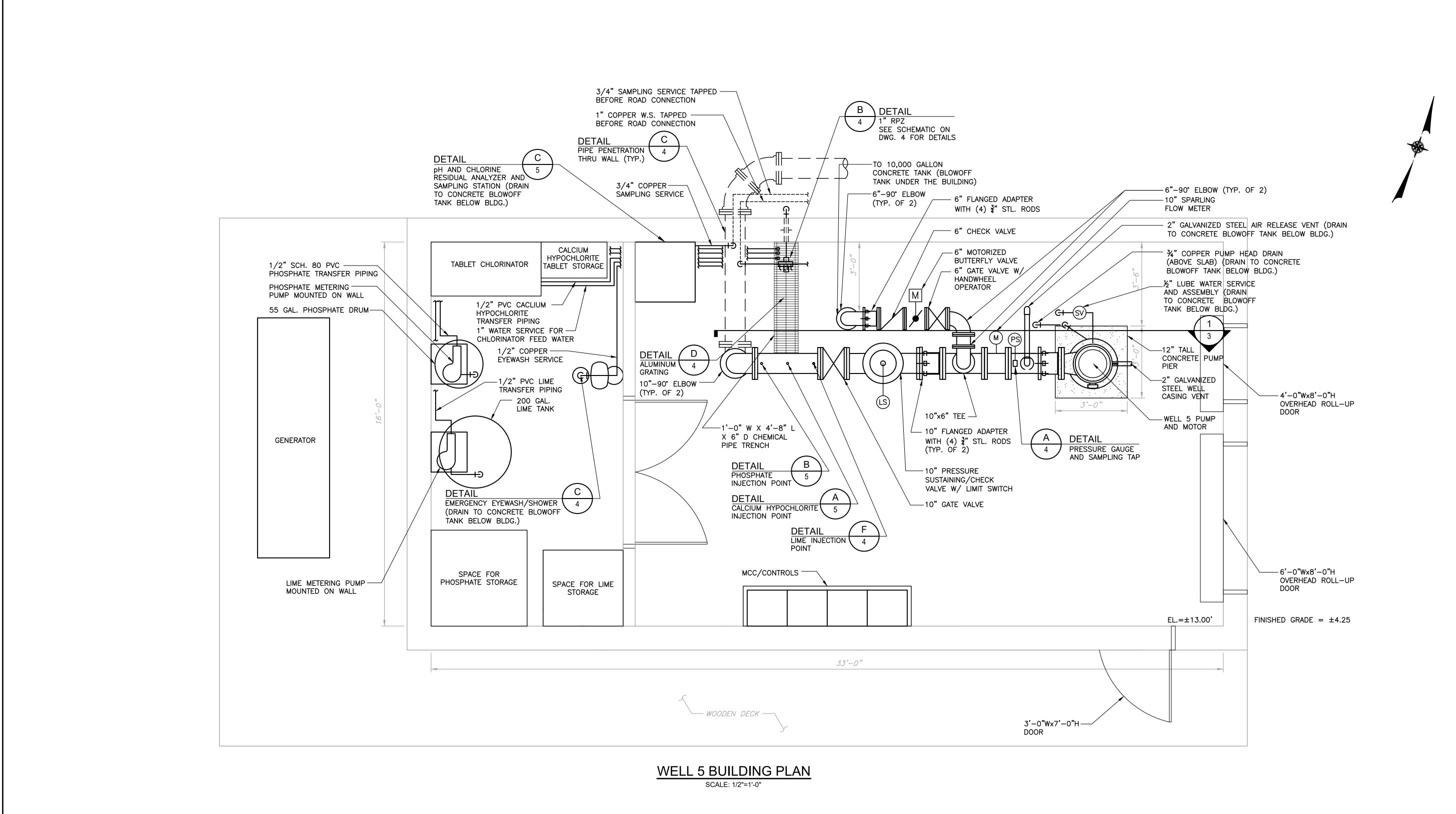
3744

DATE:

JUNE 2017

SCALE:

N.T.S



GENERAL NOTES

 ALL SMALL DIAMETER PIPING SHALL BE ROUTED AND SECURED ALONG THE BUILDING WALLS AND THROUGH THE PIPE TRENCH.

					UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.			
				I DRAFI	PROJECT ENGINEER:	DRAWN BY:		
				_ , , , , , ,	SP	JG		
					DESIGNED BY:	CHECKED BY:		
NO.	DATE	REVISION	INT.		SP	WDM		

	D&B Engineers
	AND
UN	ARCHITECTS, P.C.
Known as Dvirka	and Bartilucci Consulting Engineers

	VILLAGE OF OCEAN BEACH						
UFFOLK COUNTY	WATER DEPARTMENT	NEW YORK					
CONSTRUCTION OF WELL STATION NO. 5							

WELL NO. 5 BUILDING
FLOOR PLAN
MECHANICAL

PROJECT NO.

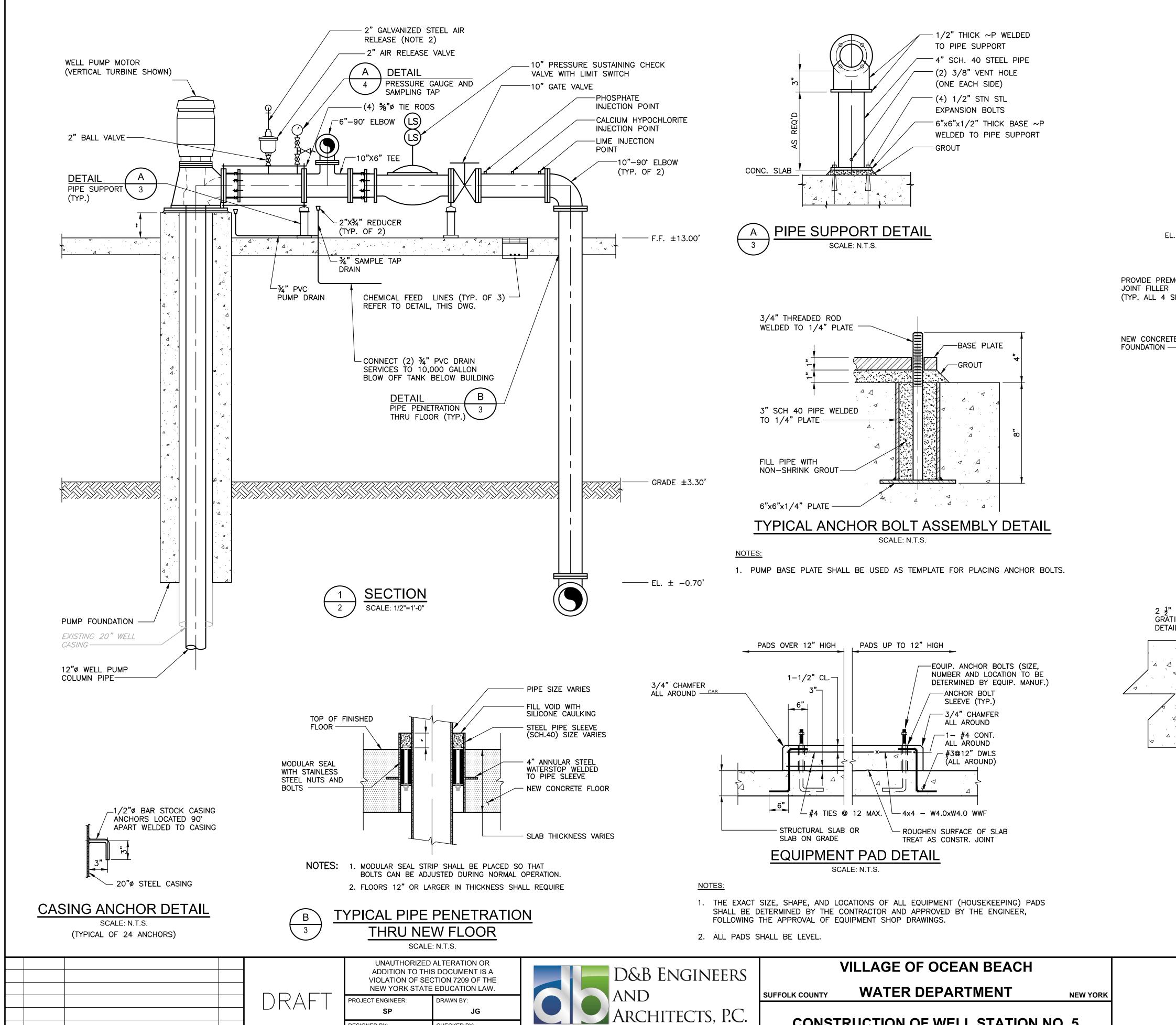
3744

DATE:

JUNE 2017

SCALE:

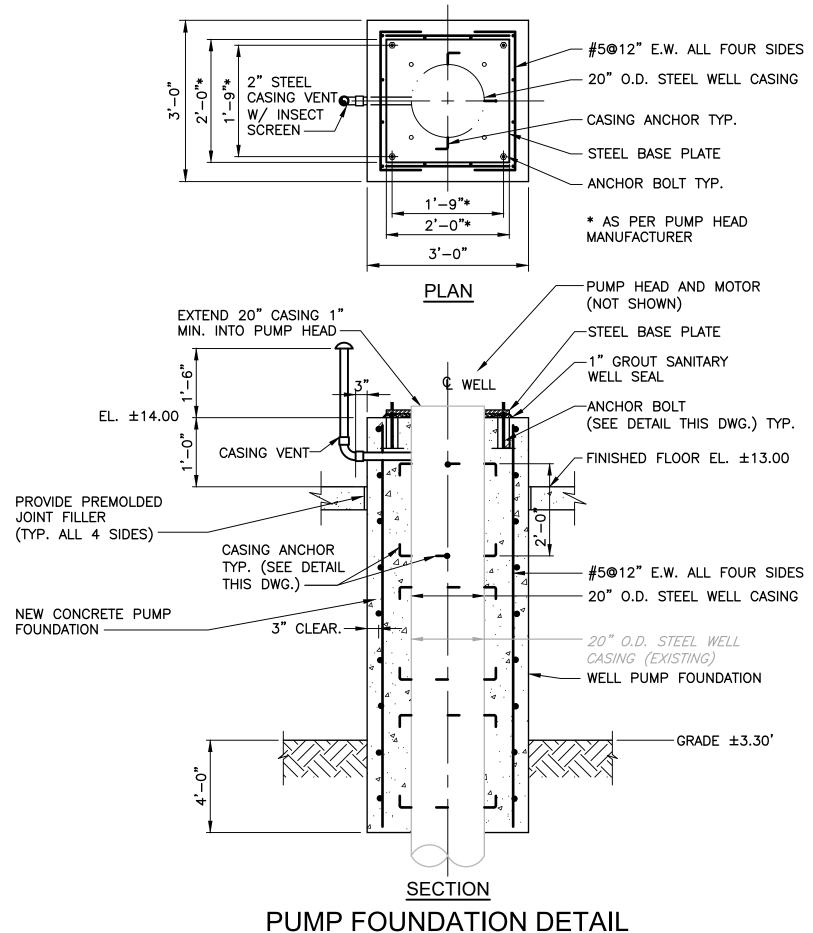
AS NOTED



KNOWN AS DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

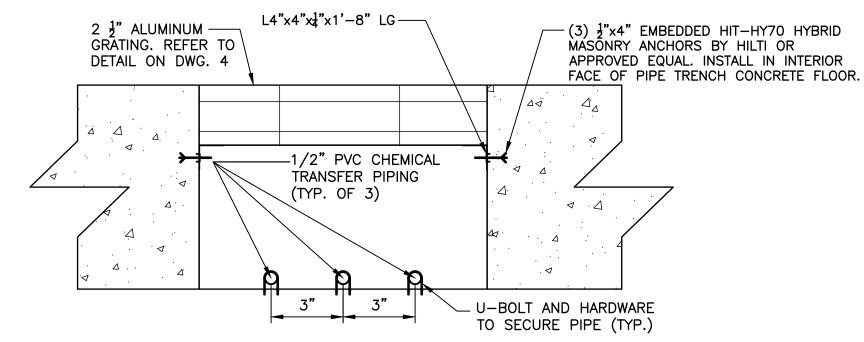
DESIGNED BY:

CHECKED BY:



* CONTRACTOR SHALL COORDINATE ALL DIMENSIONS WITH APPROVED EQUIPMENT SHOP DRAWINGS.

SCALE: N.T.S.



PIPE TRENCH DETAIL SCALE: N.T.S.

DETAILS I

MECHANICAL

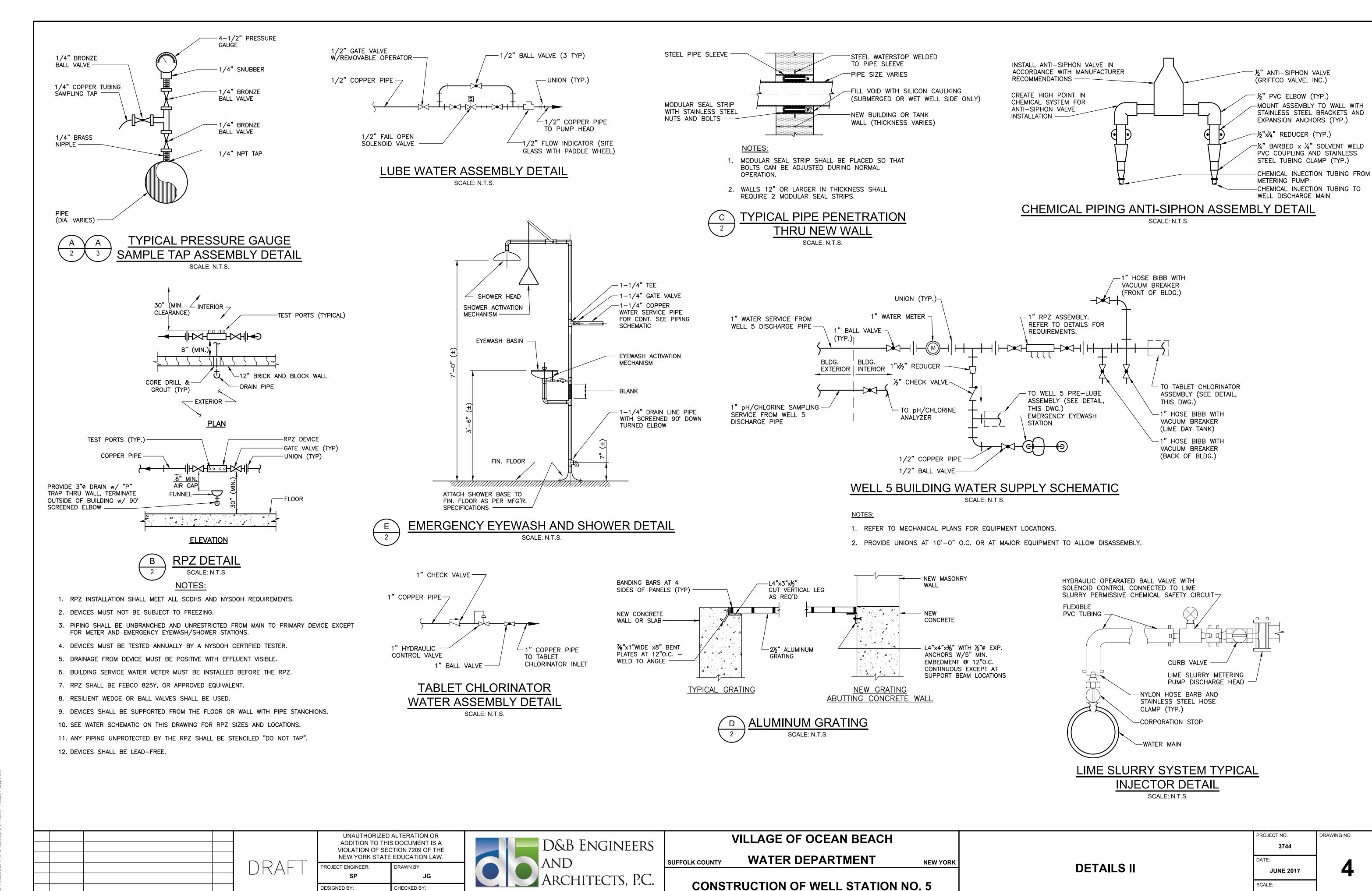
CONSTRUCTION OF WELL STATION NO. 5

DRAWING NO. PROJECT NO. 3744 **JUNE 2017 AS NOTED**

SCALE:

NO. DATE

REVISION



KNOWN AS DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

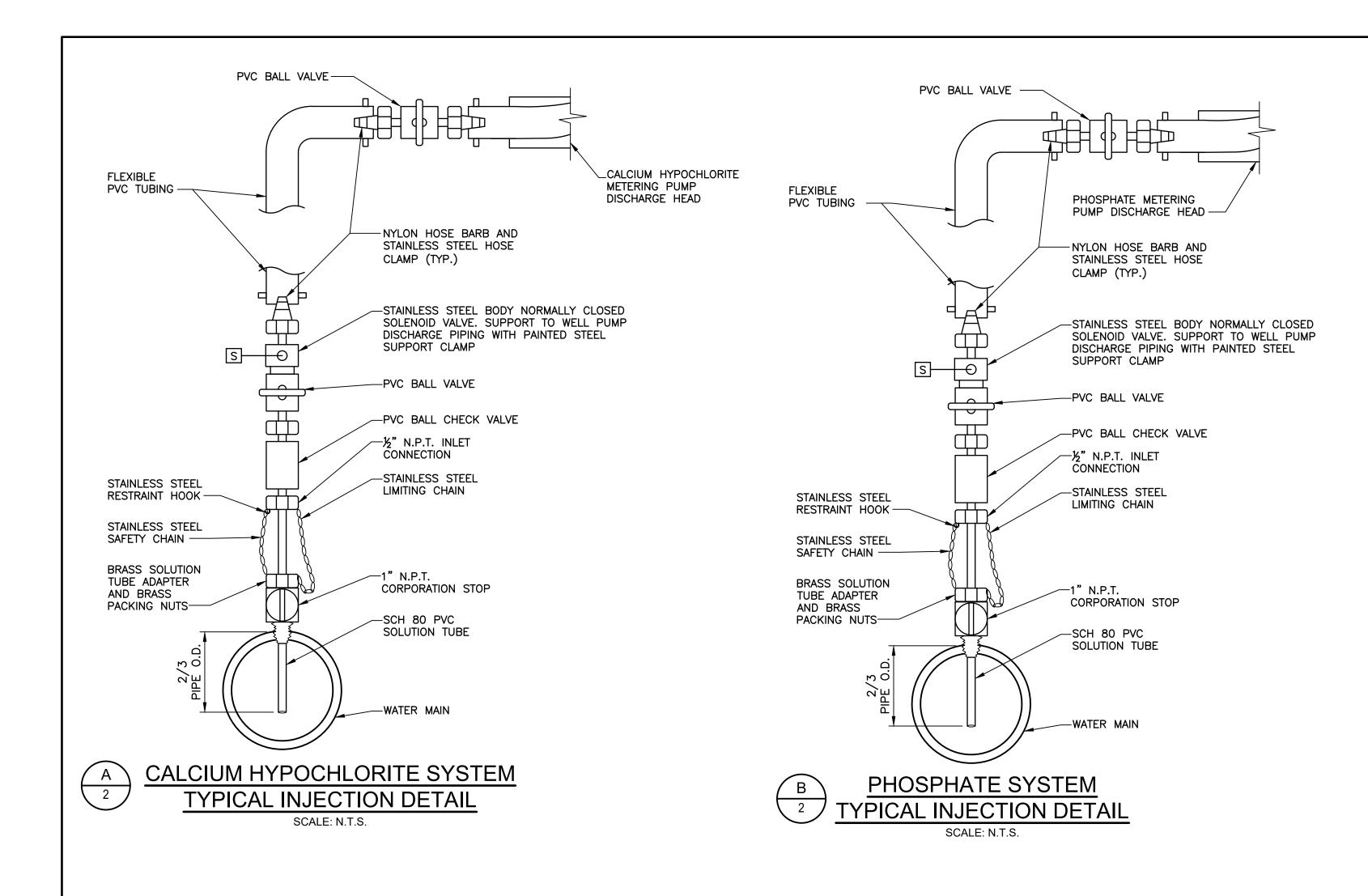
DRAWING NO.

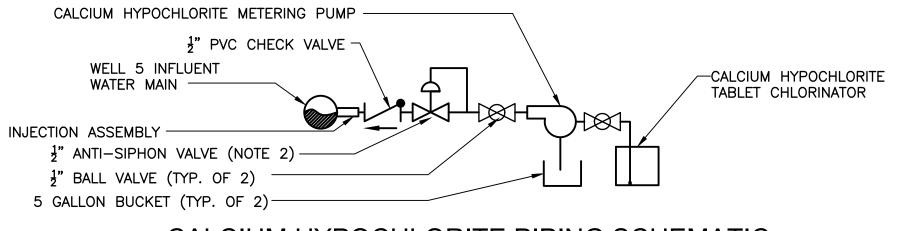
N.T.S

MECHANICAL

NO. DATE

REVISION

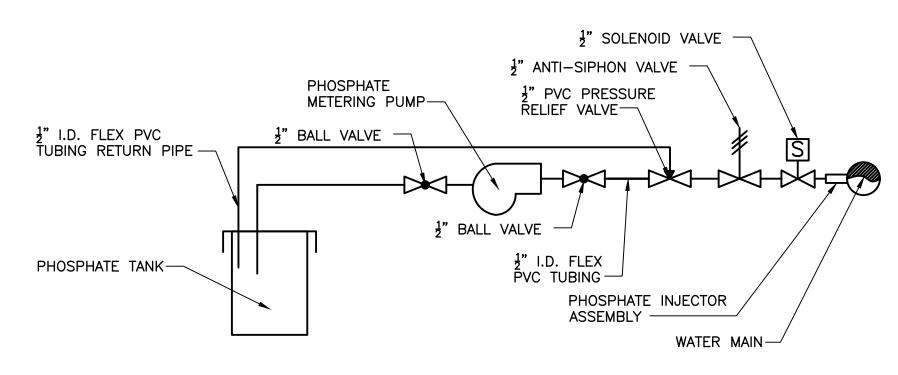




CALCIUM HYPOCHLORITE PIPING SCHEMATIC

NOTES:

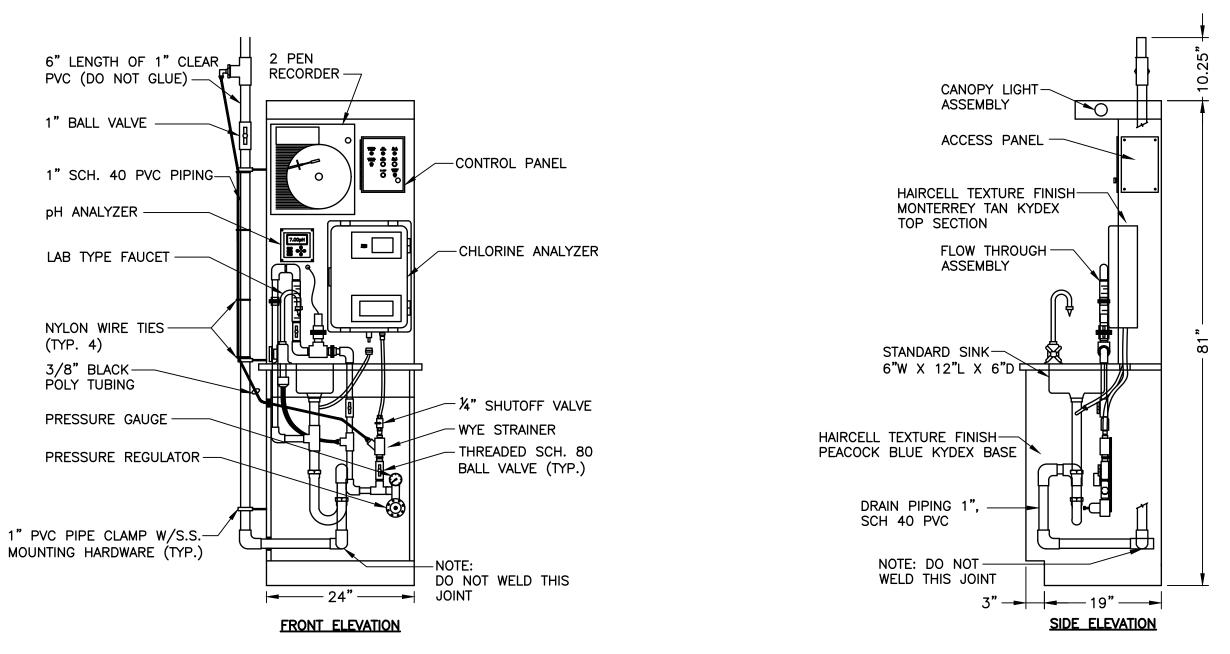
- 1. ALL CALCIUM HYPOCHLORITE PIPING SHALL BE LABELED WITH YELLOW TAPE IN ACCORDANCE WITH SPECIFICATIONS. "CALCIUM HYPOCHLORITE" AND ARROW INDICATING DIRECTION OF FLOW SHALL BE LABELED EACH 10 FEET OF PIPING.
- 2. INSTALL ANTI-SIPHON VALVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3. PROVIDE FLEXIBLE PVC PIPE AND FITTINGS FROM CHLORINATOR ENCLOSURE DRAINAGE CONNECTION TO 5 GALLON PLASTIC BUCKET.



PHOSPHATE PIPING SCHEMATIC SCALE: N.T.S.

NOTES:

- 1. ALL PHOSPHATE PIPING SHALL BE LABELED WITH YELLOW TAPE IN ACCORDANCE WITH SPECIFICATIONS. "PHOSPHATE" AND ARROW INDICATING DIRECTION OF FLOW SHALL BE LABELED EACH 10 FEET OF PIPING.
- 2. INSTALL ANTI-SIPHON VALVE AT HIGH POINT IN SYSTEM AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.





pH/CHLORINE RESIDUAL ANALYZER AND SAMPLING STATION

SCALE: N.T.S.

					ADDITION TO THIS	ALTERATION OR S DOCUMENT IS A CTION 7209 OF THE EDUCATION LAW.	Ţ
				DRAFI	PROJECT ENGINEER: SP	DRAWN BY: JG]
					DESIGNED BY:	CHECKED BY:	$\frac{1}{2}$
О.	DATE	REVISION	INT.		JG	WDM	

	D&B ENGINEERS	SUFFOLK CO
Known as Dvirka ai	ARCHITECTS, P.C. ND BARTILUCCI CONSULTING ENGINEERS	C

	VILLAGE OF OCEAN BEACH	
LK COUNTY	WATER DEPARTMENT	NEW YORK
CONS	TRUCTION OF WELL STATION NO	O. 5

DETAILS III

DETAILS III

DETAILS III

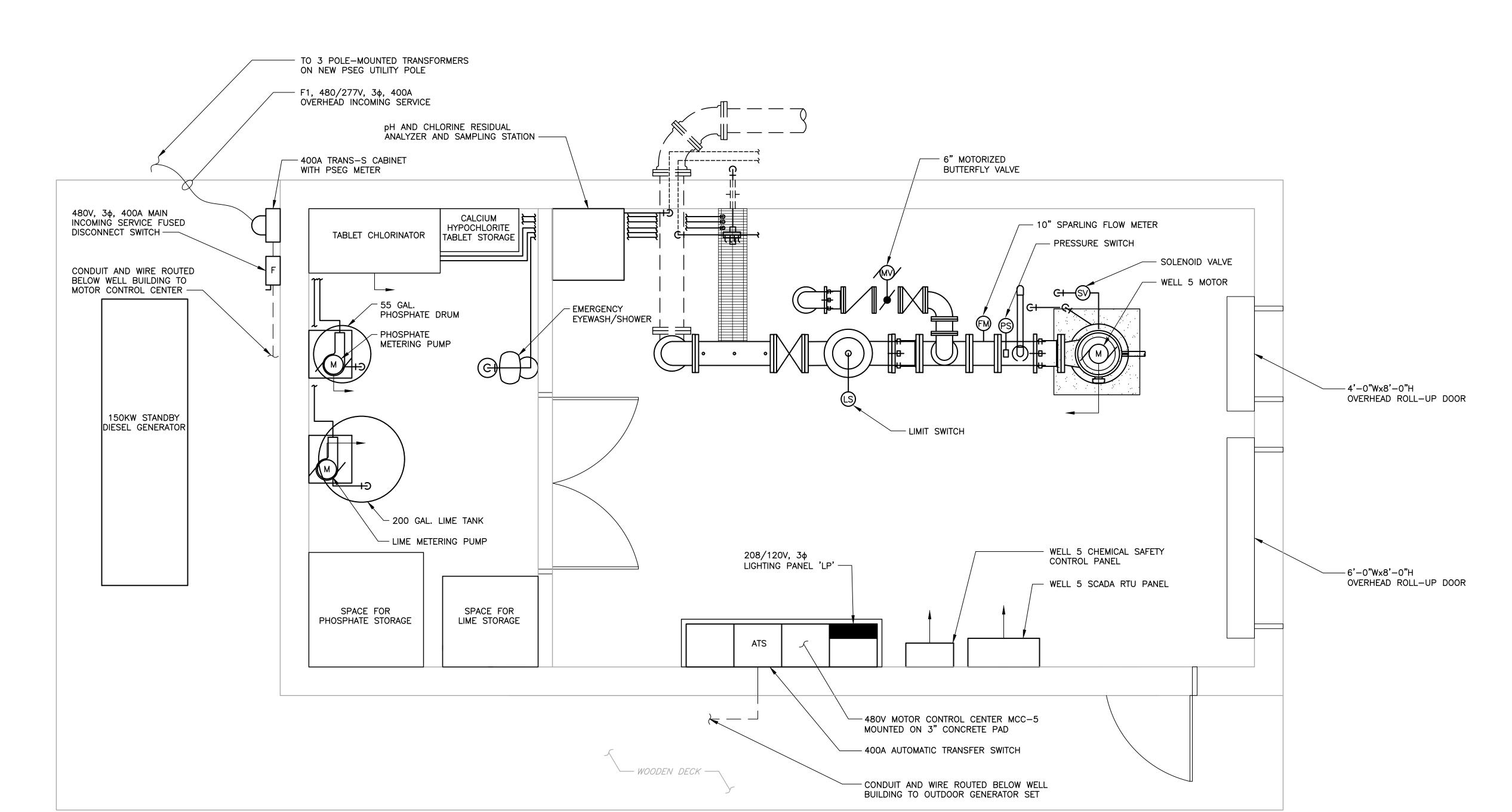
DATE:

JUNE 2017

SCALE:

N.T.S

- 1. REFER TO DRAWING X FOR SYMBOLS AND ABBREVIATIONS.
- REFER TO DRAWING X FOR CHEMICAL SAFETY SYSTEM RISER DIAGRAM.

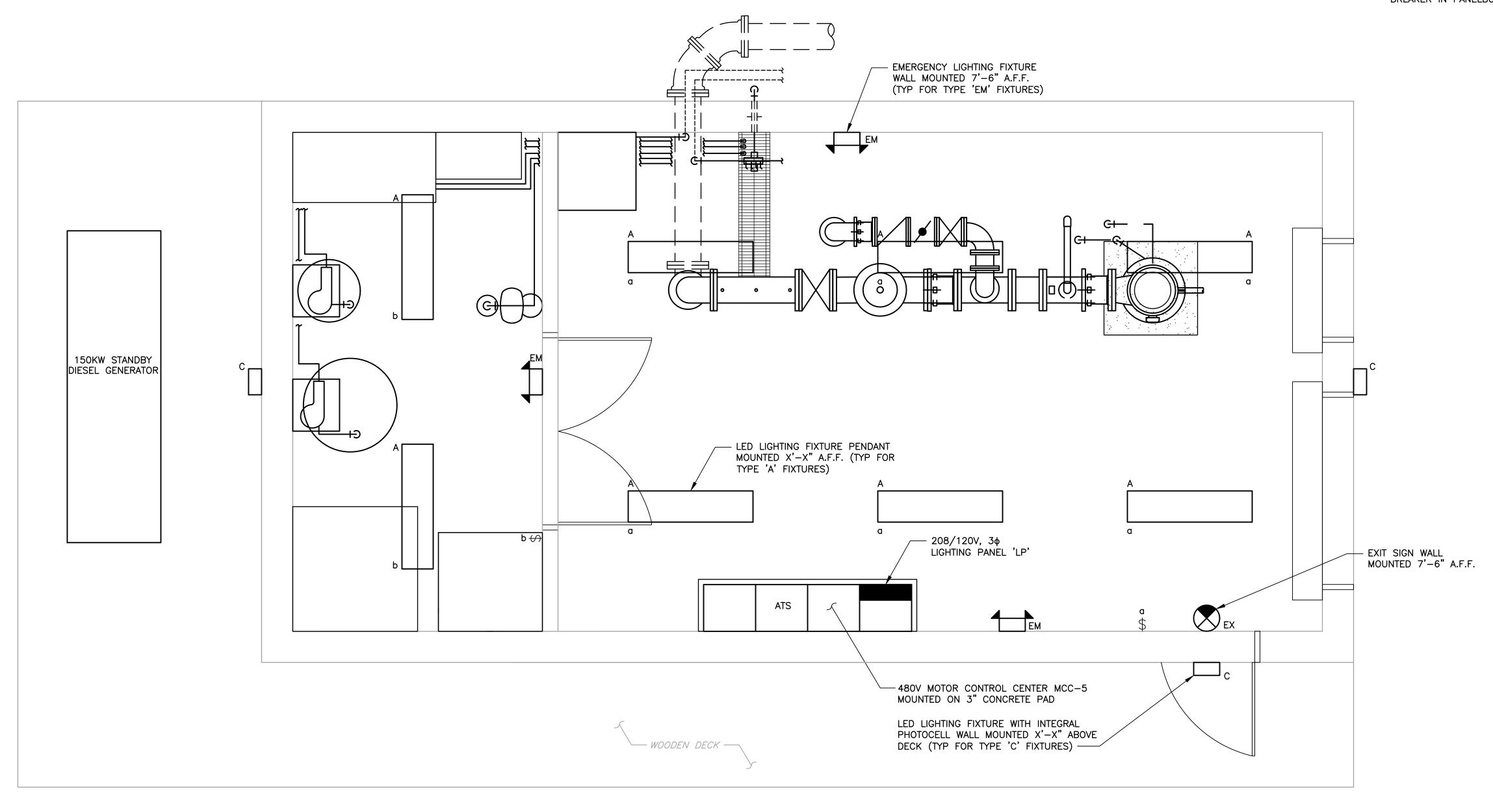


WELL 5 BUILDING PLAN SCALE: 1/2"=1'-0"

			ADDITION TO	ZED ALTERATION OR THIS DOCUMENT IS A	D&B ENGINEERS		VILLAGE OF OCEAN BEACH			PROJECT NO. 3744	DRAWING NO.
		1 I DRAFT		SECTION 7209 OF THE TATE EDUCATION LAW. DRAWN BY:	AND	SUFFOLK COUNTY	WATER DEPARTMENT	NEW YORK	WELL NO. 5 BUILDING	DATE:	۾ ا
			SP DESIGNED BY:	SP	ARCHITECTS, P.C.	CONS	TRUCTION OF WELL STATION N	NO 5	POWER PLAN	JUNE 2017 SCALE:	0
NO.	DATE REVISION INT.		TW	CHECKED BY: MN	Known as Dvirka and Bartilucci Consulting Engineers		TROOTION OF WELL GIATION	10.5	ELECTRICAL	1/2"=1'-0"	

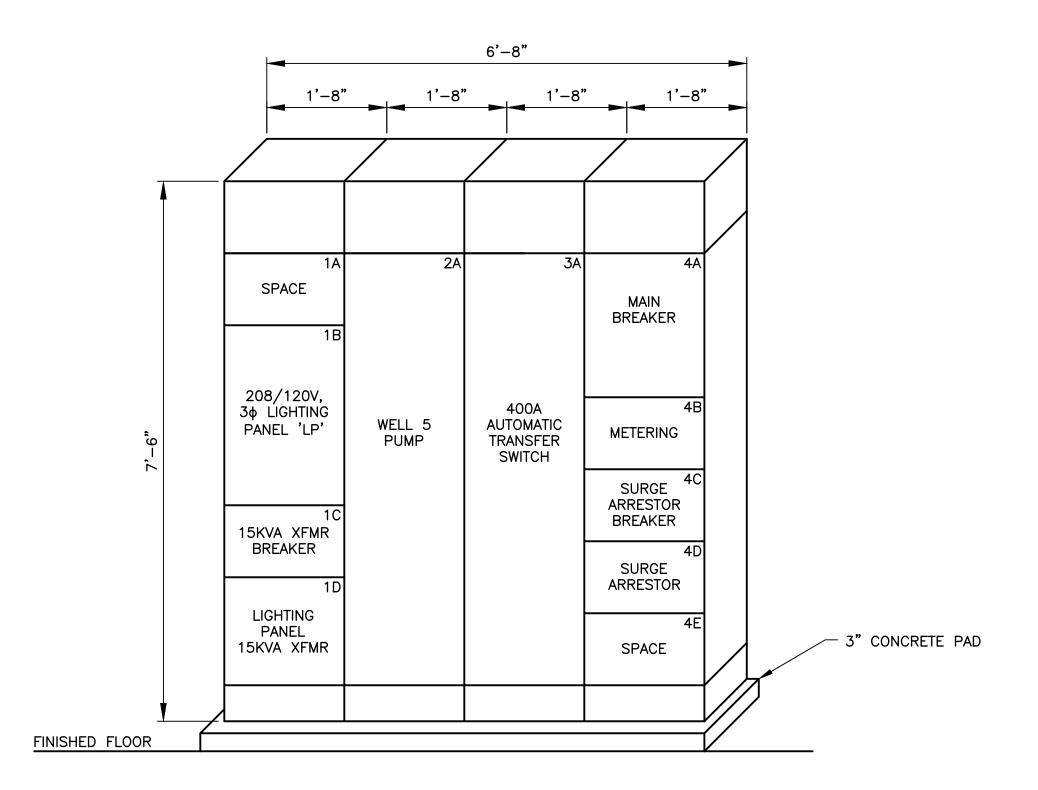
NOTES:

- 1. REFER TO DRAWING X FOR SYMBOLS AND ABBREVIATIONS.
- REFER TO SPECIFICATION SECTION 16510 FOR LIGHTING FIXTURE SCHEDULE.
- 3. WIRING AND CONDUIT BETWEEN LIGHTING FIXTURES AND RESPECTIVE SWITCHES ARE NOT SHOWN. FURNISH AND INSTALL WIRE AND CONDUIT TO CONNECT THE FIXTURES TO THEIR RESPECTIVE SWITCHES. BRANCH CIRCUITS TO LIGHTING FIXTURES SHALL BE AS DETAILED ON PANELBOARD SCHEDULE. CONNECT EMERGENCY FIXTURES AHEAD OF SWITCHES AND FIXTURES.
- CIRCUIT NUMBERS FOR LIGHTING FIXTURES INDICATE CIRCUIT BREAKER IN PANELBOARD 'LP'.

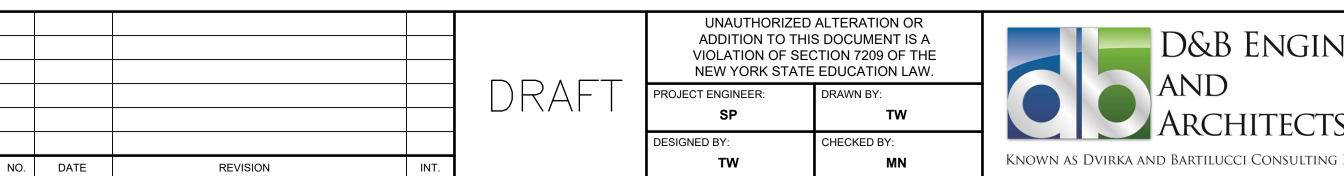


WELL 5 BUILDING PLAN SCALE: 1/2"=1'-0"

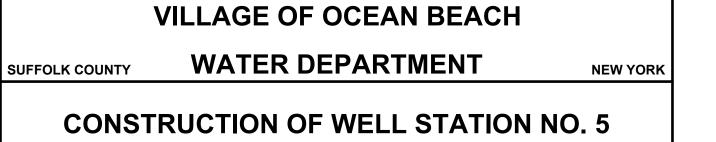
			ADDITION TO TH	D ALTERATION OR HIS DOCUMENT IS A	D&B ENGINEERS	VILLAGE OF OCEAN BEACH		PROJECT NO. DRAWING NO. 3744
		DDAET		ECTION 7209 OF THE TE EDUCATION LAW. DRAWN BY:		SUFFOLK COUNTY WATER DEPARTMENT NEW YORK	WELL NO. 5 BUILDING	DATE:
		DRAFI	SP	SP	ARCHITECTS, P.C.	CONSTRUCTION OF WELL STATION NO 5	LIGHTING PLAN	JUNE 2017 SCALE:
NO. DATE	REVISION INT.		DESIGNED BY: TW	CHECKED BY: MN	Known as Dvirka and Bartilucci Consulting Engineers	CONSTRUCTION OF WELL STATION NO. 5	ELECTRICAL	1/2"=1'-0"



ELEVATION: MOTOR CONTROL CENTER MCC-5

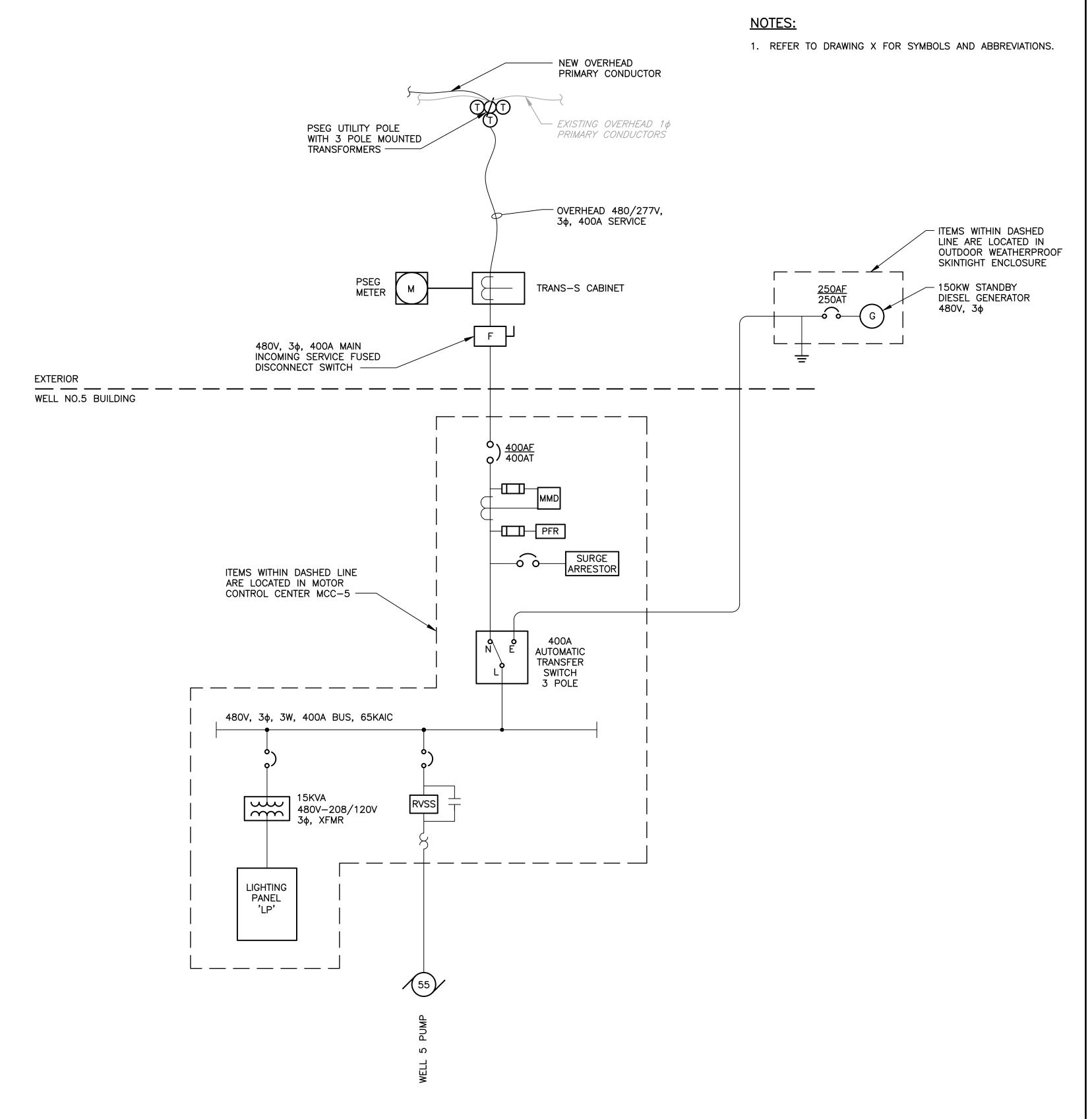






MOTOR CONTROL CENTER MCC-5 **ELEVATION AND SINGLE LINE DIAGRAM ELECTRICAL**

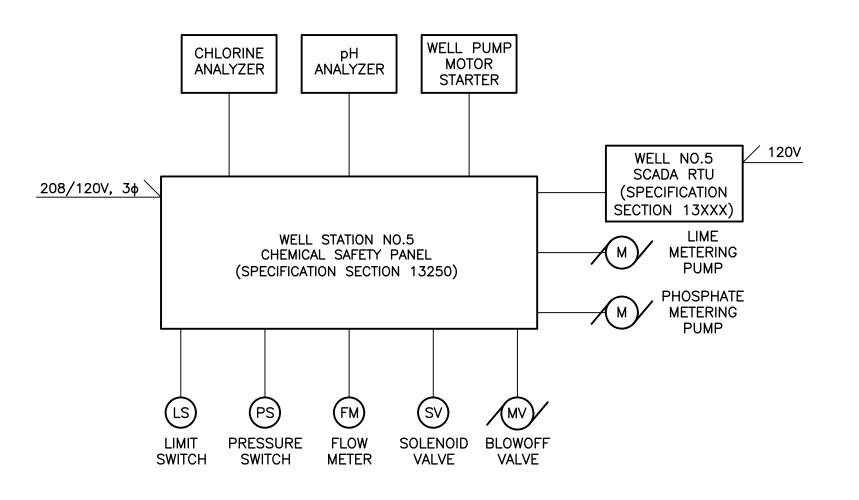
DRAWING NO. 3744 8 **JUNE 2017** SCALE: N.T.S.



SINGLE LINE DIAGRAM: MOTOR CONTROL CENTER MCC-5 SCALE: N.T.S.

NOTES:

1. REFER TO DRAWING X FOR SYMBOLS AND ABBREVIATIONS.



RISER DIAGRAM: CHEMICAL SAFETY SYSTEM

					UNAUTHORIZED ADDITION TO THIS VIOLATION OF SEC NEW YORK STATE	S DOCUMENT IS A CTION 7209 OF THE	
				DRAFI	PROJECT ENGINEER: SP	DRAWN BY: TW	
					DESIGNED BY:	CHECKED BY:	1
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D&B ENGINEERS					
AND	SU				
ARCHITECTS, P.C.					
Known as Dvirka and Bartilucci Consulting Engineers					

VILLAGE OF OCEAN BEACH
SUFFOLK COUNTY WATER DEPARTMENT NEW YORK

CONSTRUCTION OF WELL STATION NO. 5

CHEMICAL SAFETY SYSTEM
RISER DIAGRAM
ELECTRICAL

PROJECT NO.

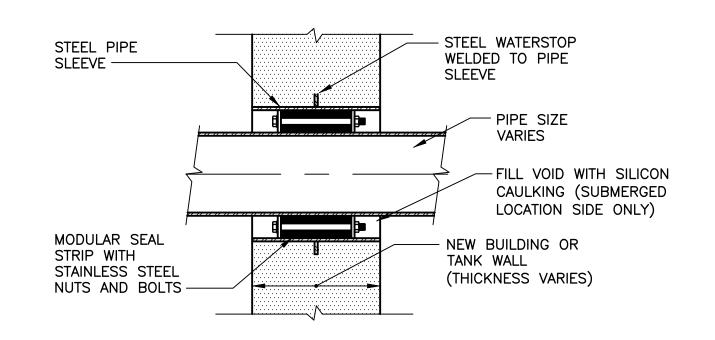
3744

DATE:

JUNE 2017

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N.T.S.

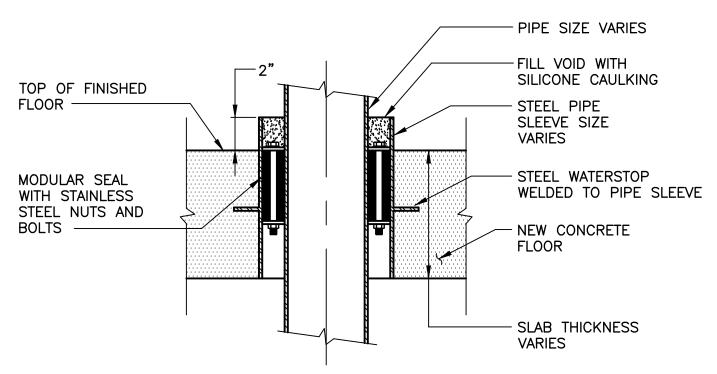


NOTES:

- 1. MODULAR SEAL STRIP SHALL BE PLACED SO THAT BOLTS CAN BE ADJUSTED DURING NORMAL OPERATION.
- 2. WALLS 12" OR LARGER IN THICKNESS SHALL REQUIRE 2 MODULAR SEAL STRIPS.

TYPICAL CONDUIT PENETRATION THRU NEW WALL

(USE FOR ALL NEW WALL PENETRATIONS)
N.T.S.

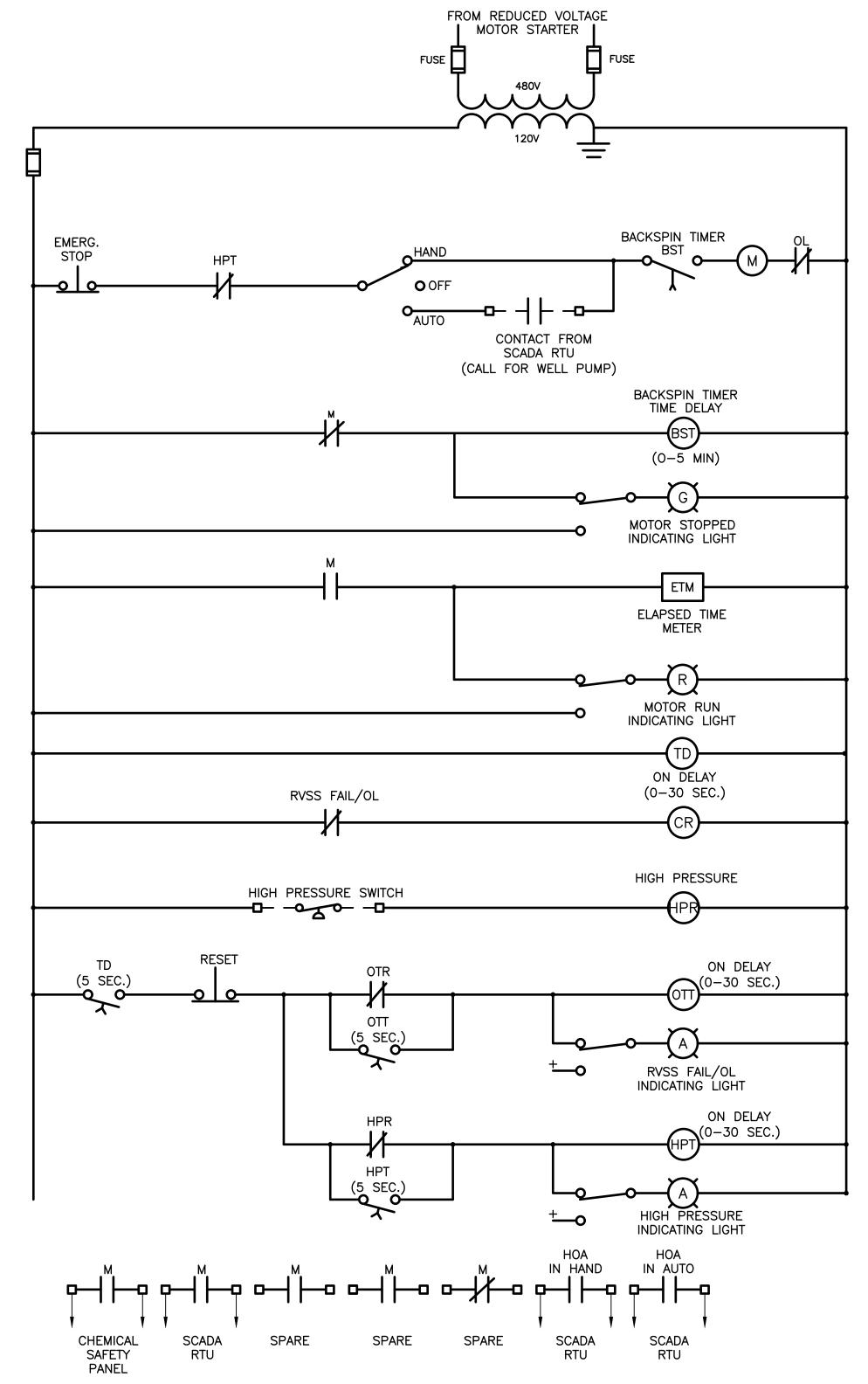


NOTES:

- 1. MODULAR SEAL STRIP SHALL BE PLACED SO THAT BOLTS CAN BE ADJUSTED DURING NORMAL OPERATION.
- 2. FLOORS 12" OR LARGER IN THICKNESS SHALL REQUIRE 2 MODULAR SEAL STRIPS.

TYPICAL CONDUIT PENETRATION THRU NEW FLOOR

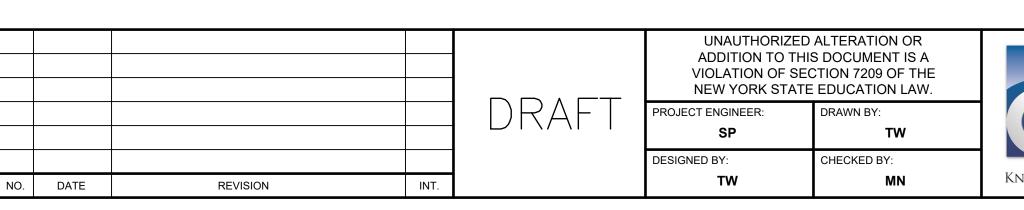
(USE FOR ALL NEW FLOOR PENETRATIONS)
N.T.S.



WIRING DIAGRAM NO. 1

WELL 5 PUMP

- 1. MOTOR STARTER SHALL BE REDUCED VOLTAGE, SOLID
- MOTOR STARTER SHALL CONTAIN SINGLE PHASE AMMETER AND CURRENT TRANSFORMER.
- 3. MOTOR STARTER SHALL CONTAIN SURGE ARRESTOR.
- 4. REFER TO SPECIFICATION SECTION 16920 FOR CONTROL ACCESSORIES. NOT ALL CONTROLS ARE SHOWN ON THE WIRING DIAGRAM.





VILLAGE OF OCEAN BEACH

CONSTRUCTION OF WELL STATION NO. 5

WATER DEPARTMENT SUFFOLK COUNTY

NEW YORK

WIRING DIAGRAM AND DETAILS **ELECTRICAL**

3744 **JUNE 2017** SCALE: N.T.S.

DRAWING NO. PROJECT NO.

10