

STEVEN G. STRICKLAND, P.E., SC#13603

TMS # 194-00-04-017

TMS # 194-00-04-016

TMS #	194-00-04-070
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100' X 60'

CLEANOUT

CLEANOUT

PUMP
STATION

2 - 1" WATER
SERVICES

W	112.55'	N 01d 03' 03" W	115.70'
EXISTING WATER MAIN			

INLET SQUARE DRIVE

EXISTING 4" FORCEMAIN

4"X2"
TAPPING SADDLE
W/ VALVE
2" BALL CHECK VALVE

STUB OUT 1 LEG 8" PVC
AND PLUG FOR FUTURE

TMS # 194-00-04-014

APPROVED DATE MAR 17 1999
GRAND STRAND WATER & SEWER AUTHORITY
BY: Ronald W. Freeman

INLET SQUARE RETAIL COMPLEX

PREPARED FOR
INVEST 1 - B & H DEVELOPMENT
INLET SQUARE MALL DRIVE
GARDEN CITY, SC

AS BUILTS

NO.	DATE	DESCRIPTION	BY
1.	26 APR 98	SITE PLAN	SGS
2.	26 MAY 98	GWSA REVISIONS	SGS
3.	25 FEB 99	PUMP STATION AS BUILTS	MHD
		C:\300\ADW\SOUTH\ELIAG	



1906 HIGHWAY 17 NORTH
SUITE 4
SURFSIDE BEACH, SC 29575
803/828-4105
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C:\300\ADWGSOUTH\EJA6

20-144-001/2-S

INFLUENT	PIPE ID	8" PVC
	ELEVATION	20.00
WETWELL	INSIDE DIAMETER	4 FT
	TOP ELEVATION	26.00
	HIGH WATER LEVEL	19.00
	LOW WATER LEVEL	17.00
	FLOOR ELEVATION	16.00
SENSOR ELEV	ALARM SIGNAL ON	19.50
	LAG PUMP ON	18.50
	LEAD PUMP ON	17.50
	PUMPS OFF	17.00
PUMPS	MODEL	ABS PIRANHA S16/2
	IMPELLER	136mm
	DISCHARGE PIPING	2"
	CHECK VALVE	1.25"
	PLUG VALVE	2"
	DESIGN FLOW	5 GPM
	DESIGN HEAD	68.0 FT
	REQUIRED FLOW	32 GPM
	REQUIRED HEAD	60.0 FT
	VOLTAGE	230 VOLTS
PHASE	3 PH	
HORSEPOWER	2 HP	
RPM	3450	
EFFICIENCY	73.6%	

The diagram illustrates a well system with the following components and specifications:

- Control Panel:** ABS QCI CONTROL PANEL, SUBJECT TO ENGINEER'S SPECIFICATIONS (WALL, POLE, OR PEDESTAL MOUNTING).
- Pump Cables:** JUNCTION BOXES (NOT SHOWN) FOR THE PUMP CABLES MUST BE LOCATED ABOVE THE FLOOD ELEVATION.
- Panel Elevation:** PANEL EL. 31.0
- Well Structure:**
 - Upper Guide Bar Bracket:** Located at the top of the well.
 - Padlockable Access Cover:** Located on the side of the well.
 - Cable Holder:** Located on the side of the well.
 - 4" PVC VENT W/ 1/8" SS SCREEN:** Located at the top of the well.
 - 3/8" SS VALVE EXTENSION HANDLES:** Located on the side of the well.
 - 1.25" SCH80 PVC GATE VALVE:** Located on the side of the well.
 - 1.25" SCH80 PVC TEE:** Located on the side of the well.
 - Discharge Elevation 25.0:** Located on the side of the well.
 - 1.25" SCH80 PVC 90D ELBOW:** Located on the side of the well.
 - 1.25" SCH80 PVC CHECK VALVE:** Located on the side of the well.
 - 1.25" SCH80 PVC DISCHARGE PIPE:** Located on the side of the well.
 - GUIDERAIL, GALVANIZED 2" SCHEDULE 40 PIPE (4x DUPLEX):** Located on the side of the well.
 - Concrete Anti-Flotation Ring, Poured in Place 2 CY MINIMUM (54 CF):** Located at the bottom of the well.
- Well Dimensions:**
 - DEPTH OF WELL 10 FT:** Indicated on the left side.
 - 4 FT I.D.:** Indicated on the right side.
- Influent Pipe:** INV IN 20.00 8" PVC INFLUENT PIPE.
- Alarm:** ALARM ON 19.50.
- Liquid Level Sensor:** LIQUID LEVEL SENSOR (4x DUPLEX).
- Lag Pump:** LAG PUMP ON 18.50.
- Lead Pump:** LEAD PUMP ON 17.50.
- Pumps Off:** PUMPS OFF 17.00 (ALSO ALTERNATES LEAD / LAG SEQUENCE).
- Min. Liquid Level:** MIN. LIQUID LEVEL MUST NOT FALL BELOW TOP OF VOLUTE.
- Base Elevation:** BASE ELEVATION 16.00.
- Crushed Stone Bed:** 12" CRUSHED STONE BED.
- Steel Reinforced Fiberglass Bottom:** STEEL REINFORCED FIBERGLASS BOTTOM.
- Ground Elevation:** GROUND EL. 26.0.
- Electric Power Cable & Float Cables:** Located on the right side.
- Prefabricated Reinforced Fiberglass Basin:** Located on the right side.

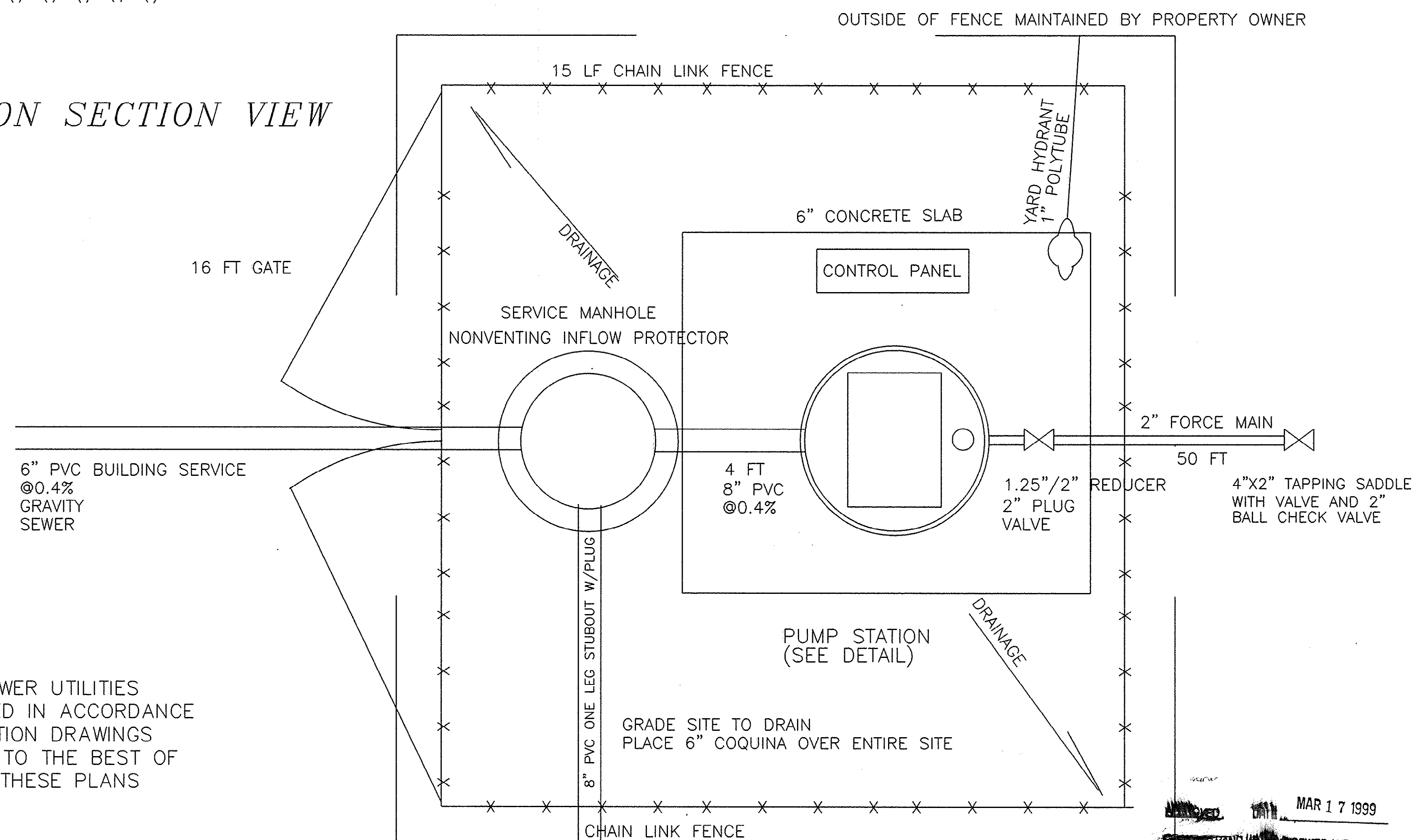


PUMP STATION PLAN VIEW

1. ALL WORK AND MATERIALS TO CONFORM TO GSWA SPECIFICATIONS AND REQUIREMENTS
2. ALL HINGES, FASTENERS, BOLTS, GUIDES HOLDERS, NUTS, CHAIN HOLDERS, AND WASHERS TO BE 302 SS
3. NEMA 4X ENCLOSURE WITH 3 POINT LATCH & DRIP SHIELD SHALL BE FIBERGLASS, LOCKABLE, & RAIN TIGHT
4. ALL WETWELL HARDWARE SHALL BE MOUNTED TO ENABLE REMOVAL OF ANY COMPONENT FOR MAINTENANCE
5. POWER CABLE TO MOTOR IS TO BE CONTINUOUS FROM PUMP TO BOTTOM OF STARTER WITH NO SPLICES
6. ALL PIPING IN WETWELL SHALL BE SCH 80 PVC
7. PUMPS AND MOTORS SHALL HAVE SS CHAIN FOR LIFTING TO REACH TO TOP OF STATION PLUS 6 FT
8. LOCATE CONTROL PANEL AS SHOWN ON SITE PLAN
9. INFLUENT TO WETWELL TO BE 8" PVC C-900
10. PUMPS TO BE ABS PIRANHA S16/2 W/136mm IMPELLER 2 HP/230 V/3 PH MOTOR - SHOP DRAWINGS REQUIRED
11. CONTROL PANEL TO CONTAIN AUDIO AND VISUAL HIGH LEVEL ALARM WITH 360 DEGREE VISIBILITY
12. ALUMINUM LADDER TO BE PROVIDED TO EXTEND FROM BOTTOM OF WETWELL TO 4 FT ABOVE HATCH IN WORKING POSITION
13. CONTRACTOR TO BE RESPONSIBLE FOR SPARE PARTS FOR PUMP STATION PER SECTION 4.2.13. OF SPECS
14. NO STEPS SHALL BE INSTALLED IN WETWELL
15. PANEL MARKINGS AND NAMEPLATES TO COMPLY WITH SECTION 4.2.11.18 OF SPECIFICATIONS
16. 24 VOLT FLOAT SENSORS ARE REQUIRED.

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PUMP STATION SECTION VIEW



PUMP STATION SITE PLAN
SCALE AS SHOWN

INLET SQUARE RETAIL COMPLEX
PREPARED FOR
INVEST 1 — B & H DEVELOPMENT
INLET SQUARE MALL DRIVE
GARDEN CITY, SC

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