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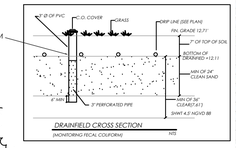
NEIGHBORING IRRIGATION WELL

PIZOMETER FOR CHLORIFORM MEASURING



NEIGHBORING IRRIGATION WELL

ADVANCED SECONDARY TREATMENT STANDARD "ASTS" TYPE III AS PER CHAPTER 62-6 F.A.C.

LOT SIZE: 39,493 Sq Ft = .91 ACRES
0.91 ACRES x 2500 = 2,275 G.P.D. , MAX.
4,297 S.F.(main house) + 548 S.F. (GTM-NO BEDROOM)
TOTAL: 6,845 S.F.

FIRST 2,551-3,300 SQ FT
6,845 S.F. - 3,300 =3,545 /750 = 4.73 x 60 = 285 G.P.D. (USE 300)

400 GPD
300 GPD
700 GPD TOTAL

SEPTICK TANK ------ HOOT H-1000-AN

DRAINFIELD: A DRIP DISPOSAL SYSTEM AS PER TABLE N° III NETAFIN OR APPROVED EQUAL

ESTIMATED SEWAGE FLOW (G.P.D) 700
RATE ABORSION IN (G.P.D) 0.8 (DRIP IRRIGATION) = 875 SQ FT DRAINFILL & 438 SQ FT RESERVE AREA REQUIRED UNOBSTRUCTED AREA REQUIRED 1,313 SQ FT

ONE ZONE SYSTEM(LESS THAN 2000 L.F.)
ALL DRIP LINES SHALL BE INSTALLED BETWEEN 8" AND 6" DEPTH. MIN.
WITH EMITTERS AT 24" O/C. (PIPES 25" SEPARATED.)
875 S.F. AREA / 4 S.F.PER EMITER =
219 EMITTERS REQUIRED 438 LINEAL FEET OF DRIP LINE

PRESSURE LOSS IN 100' OF 1-1/4" TUBING IS 0.39 LBS.
(438 LF) 4.38 X 0.39 =1.71 LBS
PRESSURE LOSS ACROSS FILTER IS 7 PSI INCLUDING FILTER FLUSH RETURN LINE FLOW RATE WHILE THE SYSTEM IS RUNNING IS 2.3 GPM.
RECIRCULATING RATE TO ACHIEVE 2.0 FT/S SCOURING VELOCITY 10.36 GPM AT 60' OF HEAD PRESSURE TO FIELD WILL BE ADJUSTED TO ACHIEVE A MAXIMUM OF 30 PSI ON THE SUPPLY MANIFOLD BY OPENING THE BY PASS PETCOCK LOCATED IN THE PUMP TANK.

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = 39,493 SQ.FT. = 0.9 ACRES
LAND USE : SINGLE FAMILY RESIDENCE
BUILDING AREA = 6845 SQ.FT 7 BEDROOM

SEWAGE FLOW

MAXIMUM SEWAGE LOADING ALLOWANCE = 2267 GPD/ACRE (1500 GPDACRE OR 2500 GPD/ACRE)
AUTORIZED SEWAGE FLOW= 2500 GPD/ACRE * 0.9 ACRES= 2267 GPD
UNIT FLOW CRITERIA (PER TABLE 1) 2500
SEWAGE FLOW PER UNIT FLOW = 700
TOTAL SEWAGE FLOW = 700 GPD

TREATMENT TANK AND DRAINFIELD

PROPOSED SYSTEM : ADVANCED SECOONDRY TREATMENT STANDARDS
MINIMUM REQUIRED TREATMENT SYSTEM CAPACITY = 700 GPD
DRAINFIELD CONFIGURATION: DRIP IRRIGATION SYSTEM
DRAINFIELD MATERIAL : NEOFIN
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRIANFIELD = 0.8 GAL/FT^2 DAY
DRAINFIELD SIZE = 700 GPD / 0.8 GAL/FT^2 DAY = 875 FT^2

SEPARATION BETWEEN THE SHWT AND BOTTOM OF DRAINFIELD (NGVD 88)

GRADE ELEVATION = 12.71 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.50 FT
ELEVATION AT BOTTOM OF DRAINFIELD = 12.11 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 7.61 FT

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 43,542.0 FT² = 1.0 ACRES
LAND USE: SINGLE FAMILY HOUSE
GROSS BUILDING AREA = 18300 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD/ACRE 1.0 ACRES= 510 GPD/ARCE

Yes/No	CRITERIA FOR OSTDS TYPE SELECTION
Yes	PROPERTY WILL BE SERVED BY PUBLIC WATER
No	PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
Yes	SURFACE WATER BODIES BEYOND 1000 FEET (SEE L.F. AS PER SURVEYOR)
No	SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX 510GPD/ACRE
Yes	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
No	SEWAGE LOADING LESS THAN 500 GPD/ ACRE 510 GPD/ACRE

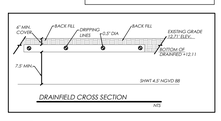
Yes/No	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Yes	SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Yes	SYSTEM WILL SERVE ONLY ONE LOT
Yes	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE

TYPE OF SYSTEM RISQUIRED: ASTS HOOT 1000 pick one : ATU (1) STS (2) ASTS (3) AWTS (4)
TOTAL NITROGEN TREATED BY: ASTS
TOTAL PHOSPHORUS TREATED BY: ASTS
FECAL COLIFORM TREATED BY: ASTS
SOURCE OF TREATMENT STANDARDS: ASTS in compliance with NSF40

TREATMENT STANDARDS

POLLUTANT	REQUIRED (mg/l) (ANUUAL AVERAGE)	PROPOSED (mg/l) (ANNUAL AVERAGE)
CBOD5	= Or(<10 mg/l)	= Or(< 2.3 mg/l
TSS	= Or(<10 mg/l)	= Or(< 3.55 mg/l
TN	= Or(<10%	= Or(<8%
TP	= Or(<10 mg/l)	= Or(< 3.12 mg/l)
FECAL COLIFORM (fl/100ml)	= OR(<200/ml/ 100/ml)	= OR(0 fl/p100ml

NOTES :
1- COVER OVER THE DRIPLINE SHOULD BE NO MORE THAN 12".
2- TYPICAL EMITTER DIA.: 0.5"
3- DRIP LINES SPECS.: NETAFIM BIOLINE 08WRAMI

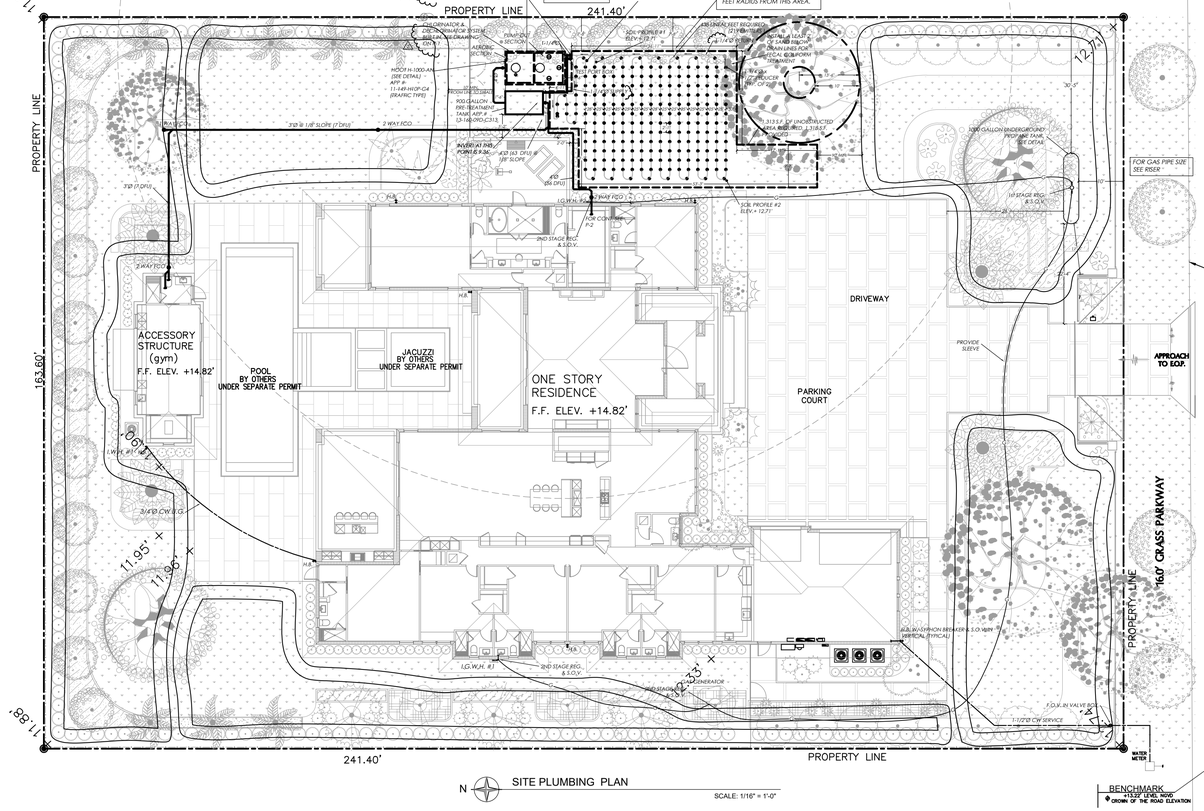


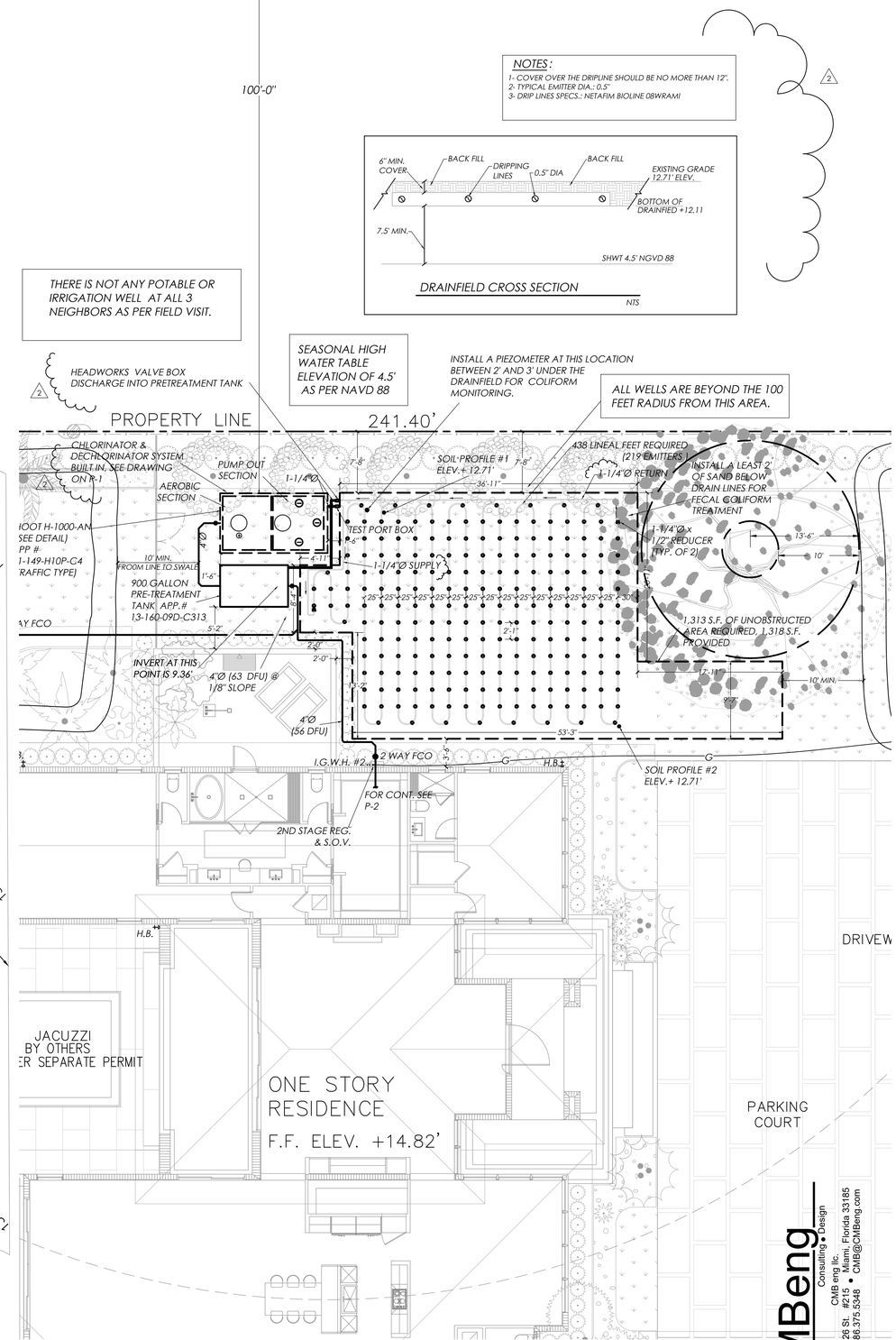
THERE IS NOT ANY POTABLE OR IRRIGATION WELL AT ALL 3 NEIGHBORS AS PER FIELD VISIT.

SEASONAL HIGH WATER TABLE ELEVATION OF 4.5' AS PER NAVD 88

INSTALL A PIEZOMETER AT THIS LOCATION BETWEEN 2' AND 3' UNDER THE DRAINFIELD FOR COLIFORM MONITORING.

ALL WELLS ARE BEYOND THE 100 FEET RADIUS FROM THIS AREA.





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1 B.D.C. 08-24-23
2 DERM 09-13-23

OWNER:
HERITAGE HOME BUILDERS, LLC.
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SUITE 1500
MIAMI, FL 33156
PHONE 305.665.3077

NEW CONSTRUCTION AT PINECREST RESIDENCE:
BY HERITAGE HOME BUILDERS, LLC.
7725 SOUTHWEST 114 STREET
VILLAGE OF PINECREST, FL 33156

SEAL:
LICENSED PROFESSIONAL ENGINEER No 56915 STATE OF FLORIDA
Digitally signed by Edmundo Largaespada
Date: 2023.11.30 17:17:51 -05'00'

SITE PLUMBING PLAN

DATE :	03.23.2023
SCALE :	AS SHOWN
DRAWN :	
CHECK BY:	
JOB NO. :	23__0012

P-1

SHEET NO. :

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