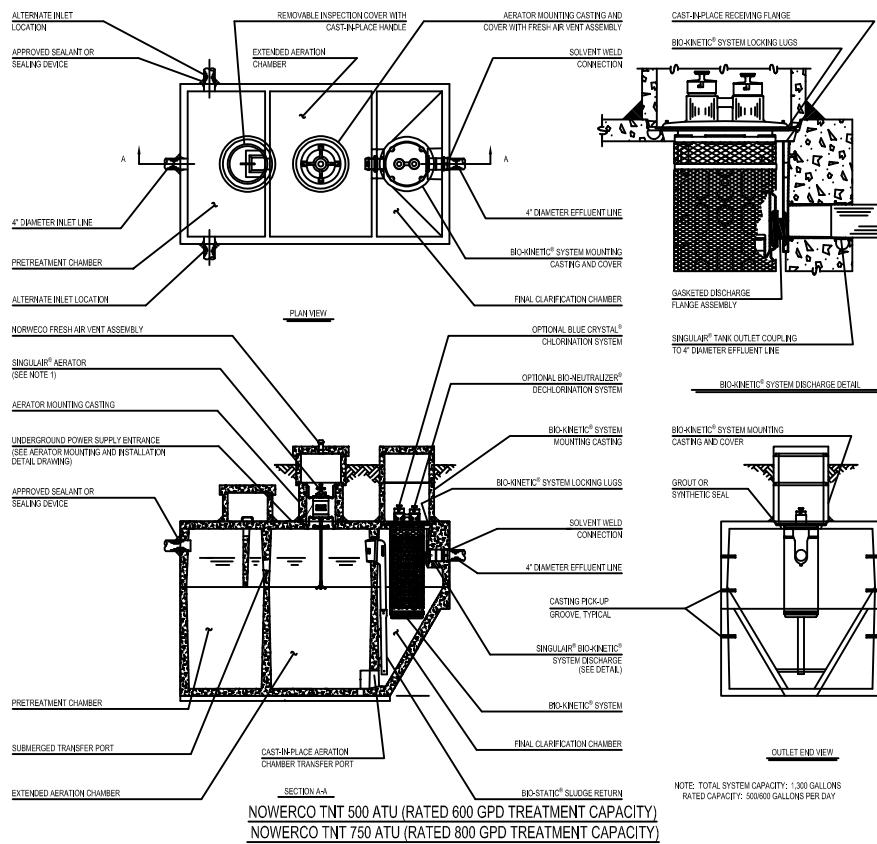
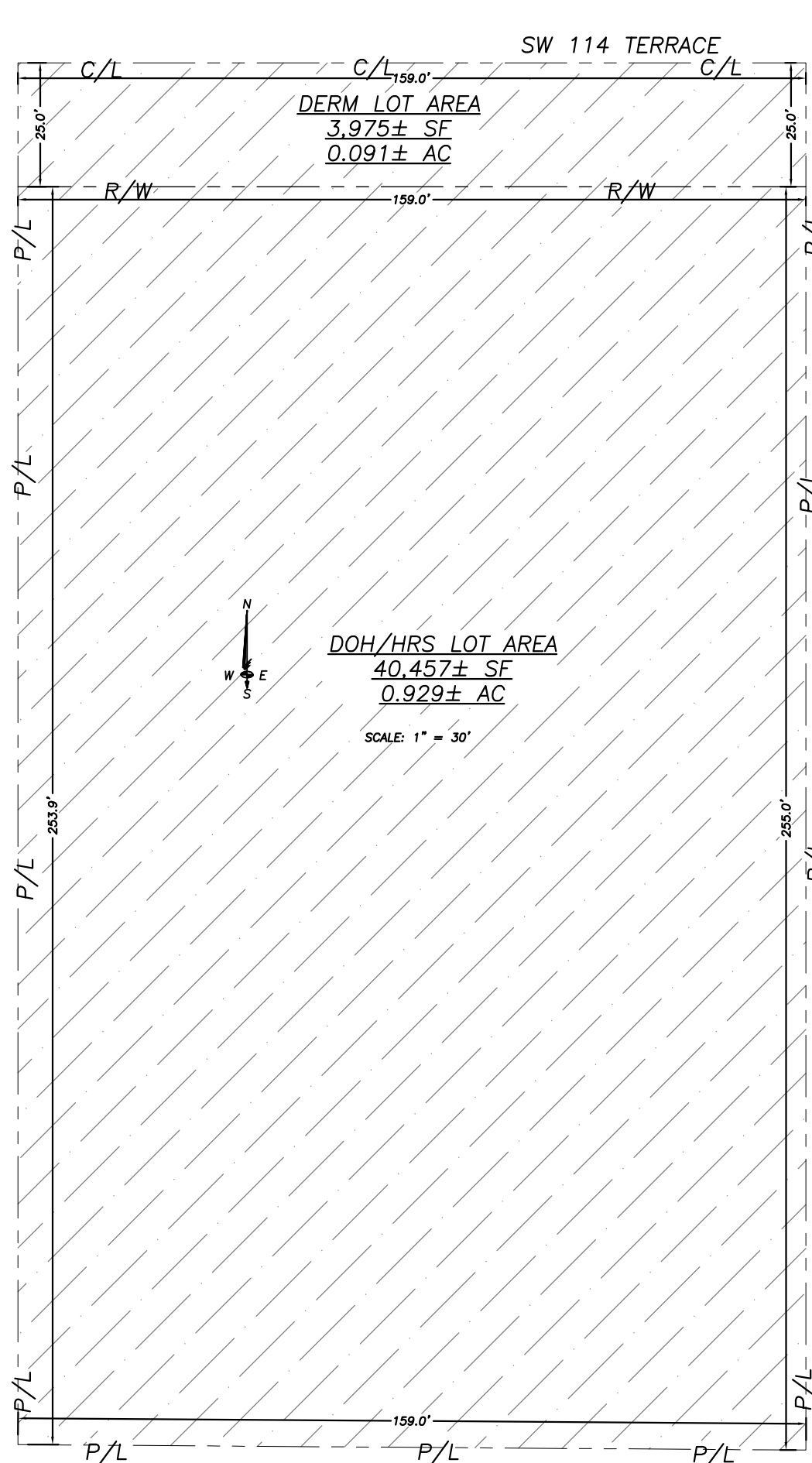
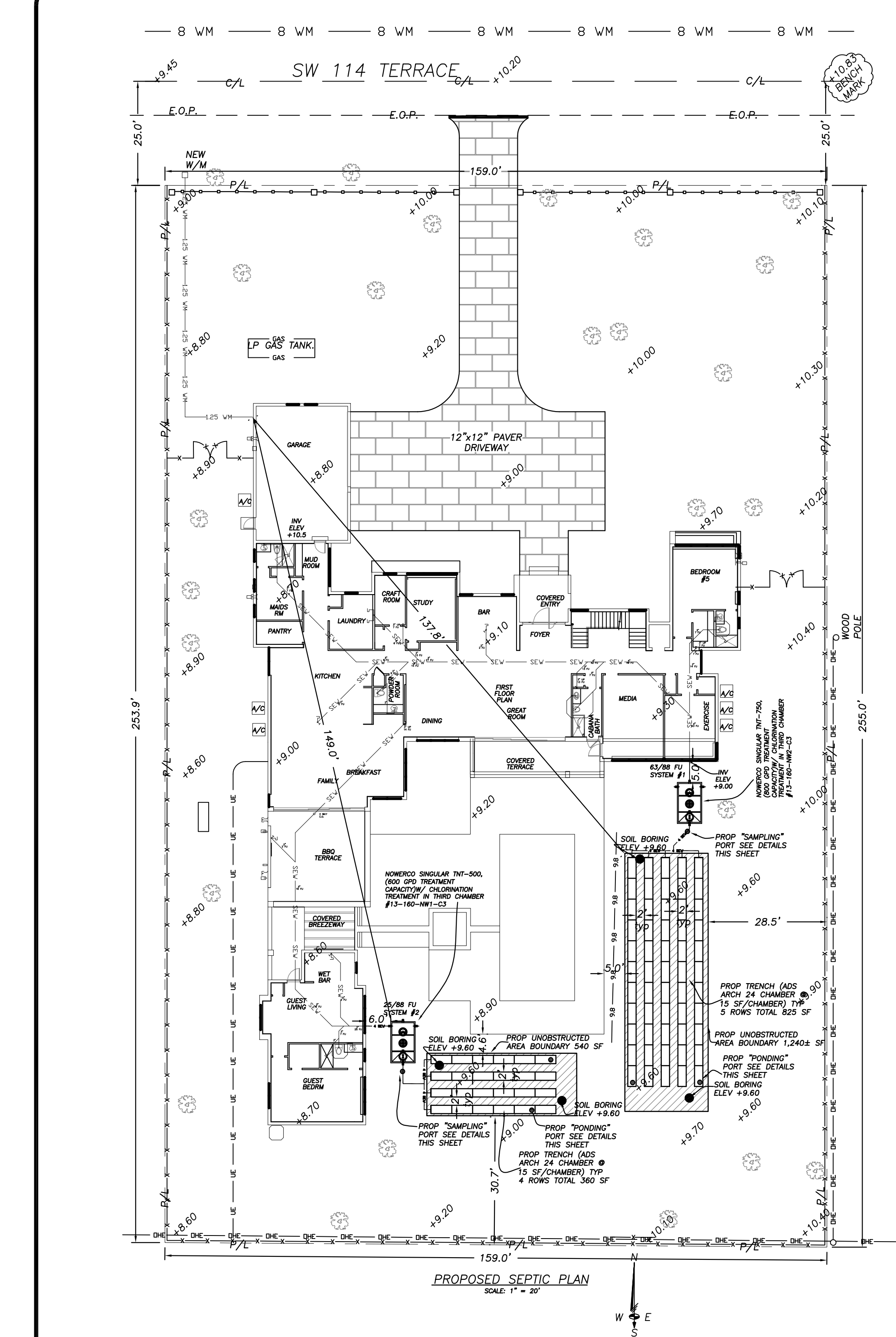
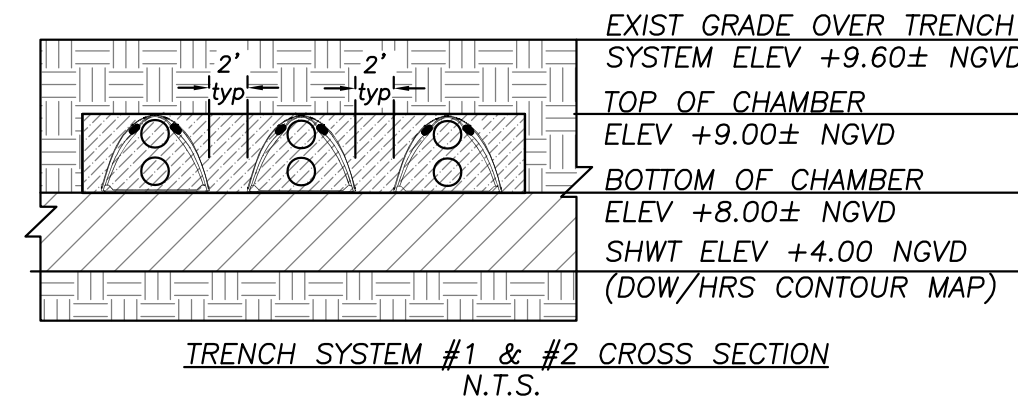
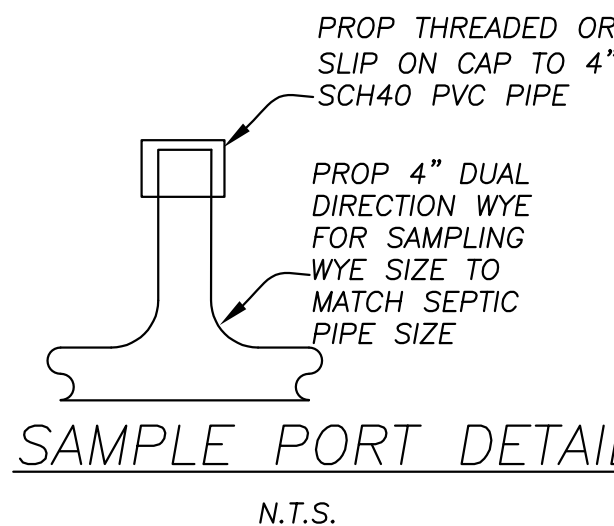
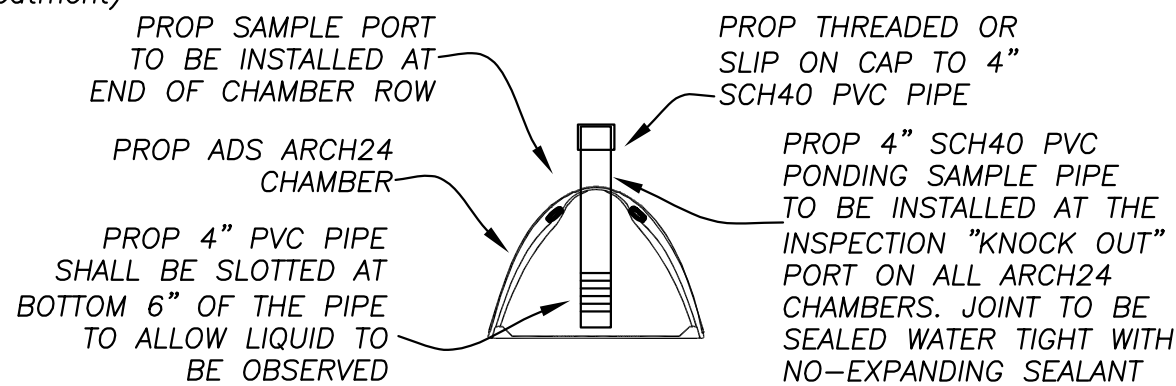




SPLIT SEPTIC SYSTEM NOTES:

- Septic Tank & Drain Field Size Per F.A.C. Chapter 62-6
- Site Area: Lot 0.929± Acres Per Site Survey
- Proposed: Main House 6 Bedroom, 8,311± SF Under A/C
Guest House 1 Bedroom 928± SF Under A/C
(Total 7 Bed /9,239 ± SF Bed = 580 GPD; SF = 880 GPD)
- Sewage Loading For Site: 0.929± AC x 2,500 GPD/AC = 2,323± GPD
- Domestic Water Site Comes From Public Water System
- Soil Texture/Loading Rate For Drain Field Sizing 0.80
- System #1: 880(63/88) = 630± GPD
System #2: 880(25/88) = 250± GPD
- Drain Field Area = (880/0.8) = 1,100 SF Required
System #1: (880(63/88))/0.80 = 789± SF Required
System #2: (880(25/88))/0.80 = 313± SF Required
System #3: (880(25/88))/0.80 = 360± SF Provided
- Unobstructed Area = (Drainfield x 1.5)
System #1 = 1,184± SF Required
System #2 = 1,240± SF Provided
System #3 = 540± SF Provided
- Tank Size Per F.A.C. Chapter 62-6 Table II
System #1: Nowerco TNT 750 (800 GPD Treatment)
System #2: Nowerco TNT 500 (600 GPD Treatment)
- System Type: ATU Tank / Trench System



SITE DATA:

LEGAL DESCRIPTION:

LOT 8, BLOCK 2 OF "BRUCE-LAURIE SUBDIVISION" AS RECORDED IN PLAT BOOK 53, PAGE 34 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA

Site Address:

5900 SW 114 Terrace
Pinecrest, FL 33156

Property Folio #:

20-5012-010-0200



CALL 811 OR WWW.SUNSHINE811.COM TWO BUSINESS DAYS BEFORE DIGGING TO HAVE UTILITIES LOCATED AND MARKED
CHECK POSITIVE RESPONSE CODES BEFORE YOU DIG

OPERATION & MAINTENANCE NOTES:

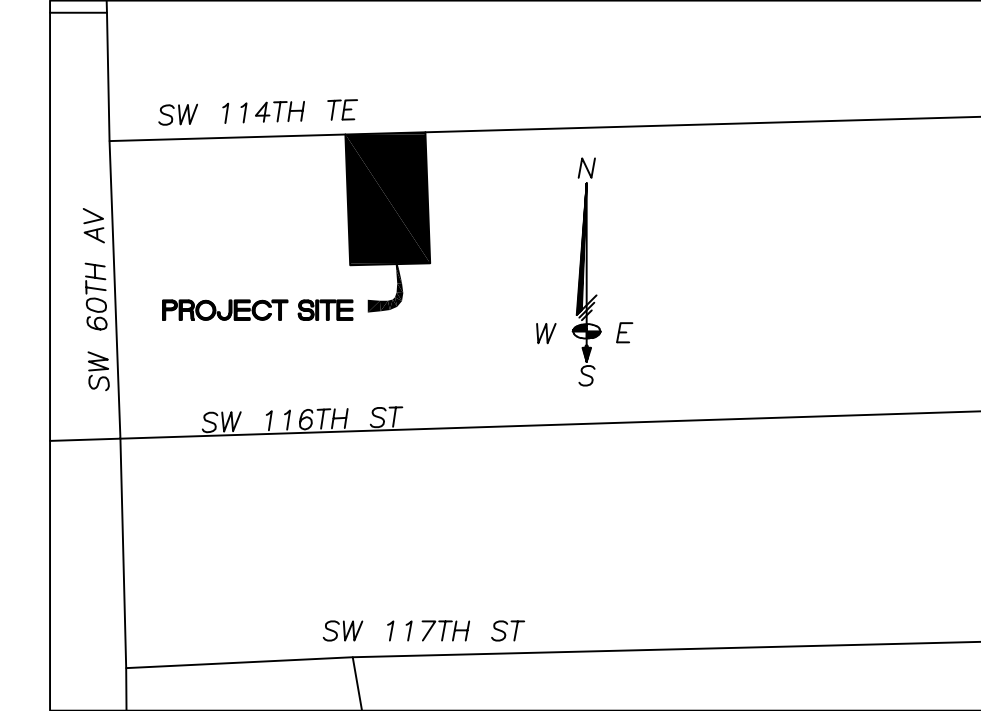
- PBTS Operation:
Power Supply To All Electrical Components Shall Remain On At All Times. The Only Time The Power Can Be Switched Off Is To Perform Maintenance On The System Components The System Components Shall Not Be Shut Off When The Building Is Not Occupied. Substances Or Chemicals Shall Not Be Added To The Effluent Treatment Tank To Treat The Wastewater Liquid, Unless Noted By The System Components (i.e. ATU Unit, Pump Tank, Chlorinator Unit).
- Maintenance & Inspection:
System Maintenance And Inspections Shall Be Performed As Required By Florida Administrative Code (F.A.C.) Chapter 62.6 Part 1. The Property Owner Is Required To Have A Minimum Two (2) Year Maintenance Contract With A Florida Health Department And/Or Department Of Environmental Protection Approved On-Site Wastewater Treatment Maintenance Contractor. The System Will Be First Inspected Upon Completion Of The Installation, Then After The Sixth (6th) Month Of Operation, Thereafter It Shall Be Visually Inspected every Six (6) Months. An Inspection Log Shall Be Kept On The Premises For Viewing By The Staff Of The Local Office Of The Florida Department Of Health, Florida Department Of Environmental Protection And Or The Miami Dade County Department Of Environmental Resources. All Components Shall Be Checked For Operating Condition And Functionality, Any Component Found To Not Operating Properly Shall Be Replaced And Said Replacement Noted In The Log The Tanks Shall Be Pumped Out Every Three (3) Years Minimum and Five (5) Years Maximum
- Sampling & Monitoring:
The System Shall Be Sampled At The Sample Point Located At The Sampling Port Or At The "Headworks" Vault (Drip Systems Only) Every Six (6) Months (F.A.C. Chapter 62-6.029(2)(a) For CBODs (≤ 10 mg/l); TSS (≤ 10 mg/l); TN (≤ 20 mg/l); TP (≤ 10 mg/l); And Fecal Coliform (≤ 200 fc col/100 ml) (When Drainfield Reduction Is Requested (F.A.C. Chapter 62-6.029(4) Sampling Shall Be Every Four (4) Months)
- Contingency Plan:
If The Alarm Bell/Light (Only When Pump Tanks Are Part Of The System) Is Activated The Property Owner Shall Call The Maintenance Entity Within 24 Hours Of The Alarm Being Triggered. The Maintenance Entity Shall Perform All Necessary Repairs Or Parts Replacement To Place The System Back Into Operation Within 36 Hours Of The Alarm Notification Per F.A.C. Chapter 62.6 Paragraph 62.6029. The Property Owner Shall Have The Tanks Pumped As Required To Prevent Any Wastewater Overflow Into A Public Access Area

SPECIAL SEPTIC SYSTEM SITE NOTES:

- No Trees Or Heavy Vegetation Shall Be Installed Of The Drain Field Area
- Only Solid Grass Will Be Allowed Over The Drain Field Area
- The Proposed On-Site Wastewater Treatment System As Shown On The Site Plan Shall Not Be Closer Than 50 Feet To A Proposed Or Existing Non-Potable Well, 100 Feet To A Proposed Or Existing Domestic Drinking Water Well, No Closer Than 3 Feet To A Public Water Service Line, And No Closer Than 10 Feet To A Public Water Main
- There Shall Be No Vehicle Parked Or Driven Over The Proposed Drain Field And Drip Line Areas Shown On The Site Plan
- The Proposed Aerobic Treatment Unit (ATU) Tank Shown On The Site Plan Shall Be Located In A Landscape Area Only. If Located In A Traffic Area The ATU Unit Shall Be In A Traffic Rated Tank
- The Proposed Pump Tank Shown On The Site Plan Shall Be Located In A Landscape Area Only. If Located In A Traffic Area The Pump Tank Shall Be Traffic Rated Tank.

NOTE:
THERE ARE NOT PERTINENT FEATURES ON THE ADJACENT PROPERTIES THAT MAY AFFECT THE SYSTEM INSTALLATION

SOIL BORING LOCATIONS (PER SOIL REPORT)



DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE: 44,432± SF = 1.02± ACRES (TO C/L OF R/W)
LAND USE: ZONED 101 RESIDENTIAL SINGLE FAMILY 1 UNIT
GROSS BUILDING AREA: 13,143± SF
SEWAGE FLOW: 510 GPD
SEWAGE LOADING: 510/1.02 = 500± GPD/ACRE

Y	N	CRITERIA FOR OSTDS SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELL
Y		FIELD PROTECTION AREA
Y		SURFACE WATER BODIES BEYOND 1000 FEET
N		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR/DUPLEX
N.A.	N.A.	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI FAMILY / OR OTHER USES
N		SEWAGE LOADING IS LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OPERATIVE, OR UNDER MORATORIUM
Y		SYSTEMS WILL SERVE ONLY ONE LOT
NA	NA	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY ON-SITE PRIVATE POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED: TYPE 3 ADVANCED SECONDARY TREATMENT SYSTEM
TOTAL NITROGEN TREATED BY: NOWERCO TNT 500
TOTAL PHOSPHORUS TREATED BY: NOT APPLICABLE
FECAL COLIFORM TREATED BY: NOWERCO INTERNAL CHLORINATION UNIT
SOURCE OF TREATMENT STANDARDS: FDP THIRD PARTY TESTING PERFORMANCE DATA FOR PBTS

POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
CBODs	10 mg/L	4 mg/L
TSS	10 mg/L	9 mg/L
TN	≥50% reduction	68% - 12 mg/L
TP	10 mg/L	10 mg/L
FECAL COLIFORM (cfu/100ml)	200 cfu/ 100 ml	2 cfu/ 100 ml

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

AREAS PER CHAPTER 62-6 F.A.C.

- NET LOT SIZE: 40,457± SF = 0.929± ACRES
- LAND USE: ZONED 101 RESIDENTIAL SINGLE FAMILY 1 UNIT
- NET BUILDING AREA: 9,239± SF UNDER A/C (7 BED)

SEWER FLOW PER CHAPTER 62-6 F.A.C.

- MAX SEWAGE LOADING ALLOWANCE: 2500 GPD/ACRE) WITH PUBLIC WATER
- AUTHORIZED SEWAGE FLOW: 0.929± ACRES x(2500 GPD/ACRE) = 2,323 GPD (NO SWALE AREA USED)
- UNIT FLOW CRITERIA (PER TABLE 1) # BEDROOM / BUILDING AREA
SEWAGE FLOW PER UNIT FLOW: 100 GPD X BEDROOM OR PER 750 SF
AFTER 400 GPD ADD 60 GPD FOR EACH ADDITIONAL BEDROOM OR EACH ADDITIONAL 750 SF
- TOTAL FLOW FOR SINGLE FAMILY: 880 GPD

TREATMENT TANK AND DRAINFIELD CHAPTER F.A.C. 62-6

- PROPOSED SYSTEM: NOWERCO TNT 500 (600 GPD RATED TREATMENT CAPACITY) & NOWERCO TNT 750 (800 GPD RATED TREATMENT CAPACITY)
- MINIMUM TREATMENT CAPACITY: 500 GPD AND 750 GPD
- DRAINFIELD CONFIGURATION: TRENCH
- DRAINFIELD TYPE: CHAMBERS ADS ARCH24
- DRAINFIELD MATERIAL: STANDARD SUBSURFACE
- MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD 0.80 GAL/SF-DAY
- DRAINFIELD SIZE: 880 GPD/ 0.80 GAL/SF-DAY = 1,100 SF

GROUND WATER/DRAINFIELD SEPARATION CHAPTER F.A.C. 62-6

- EXISTING GRADE ELEVATION AT SEPTIC SYSTEM: ±9.60 NGVD
- SEASONAL HIGH WATER TABLE: ±4.00 NGVD (HEALTH DEPT CONTOUR MAP)
- DRAINFIELD BOTTOM ELEVATION: ±8.00 NGVD
- SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD: 48 INCHES

ADDITIONAL SYSTEM DATA CHAPTER F.A.C. 62-6

- BASIS OF SYSTEM DESIGN: ATU & TRENCH
- SPLIT SYSTEM USED: NOWERCO TNT 750 FOR SYSTEM #1
- SPLIT SYSTEM USED: NOWERCO TNT 500 FOR SYSTEM #2
- ATU UNIT NOT TRAFFIC RATED
- NOWERCO INTERNAL CHLORINATION UNIT TO TREAT FECAL COLIFORM COLIFORM PRIOR TO EFFLUENT FLOWING TO THE DRAINFIELD AREA
- ALL ELEVATIONS SHOWN ON PLANS AND FORMS ARE NGVD29 DATUM

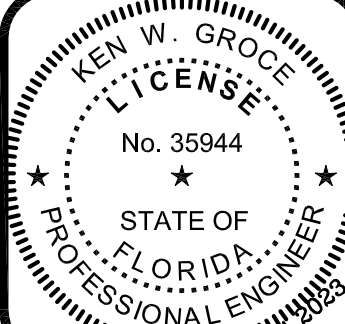
LEGEND:	ELEC
O.H.E. = OVERHEAD ELECTRIC	SV = SEWER VALVE
U.T. = UNDERGROUND TELEPHONE	SS = STORM SEWER
U.E. = UNDERGROUND ELECTRIC	S = SANITARY SEWER
C&G = CURB & GUTTER	MS = MANHOLE
EDP = EDGE OF PAVEMENT	PP = POWER POLE
P.L. = PROPERTY LINE	LP = LUSH OR LUSH
C/L = CENTER LINE	UB = FRESH URINAL
R/W = RIGHT OF WAY	UB = EXIST/NEW SEWER LATERAL
EXIST = EXISTING	UB = EXIST/NEW SEWER VALVE
PROPOSED GRADE	UB = EXIST/NEW SEWER VALVE
EXISTING GRADE	UB = EXIST/NEW SEWER VALVE
WATER MAIN	UB = EXIST/NEW SEWER VALVE
ELEVATION	UB = EXIST/NEW SEWER VALVE
TOP OF PIPE	UB = EXIST/NEW SEWER VALVE
BUILDING	UB = EXIST/NEW SEWER VALVE
UNKNOWN	UB = EXIST/NEW SEWER VALVE
WY = WATER VALVE	UB = EXIST/NEW SEWER VALVE
GI = GAST RIG	UB = EXIST/NEW SEWER VALVE
REST = REST	UB = EXIST/NEW SEWER VALVE
SAN = SANITARY	UB = EXIST/NEW SEWER VALVE
PROPOSED WATER	UB = EXIST/NEW SEWER VALVE
EXISTING WATER	UB = EXIST/NEW SEWER VALVE

CHEROKEE CONSULTING, INC
CIVIL ENGINEERS
5821 SW 51 TERRACE, MIAMI, FLORIDA 33155
Phone: 305.205.2361; E-Mail: kugroee@att.net
Certificate of Authorization 27419

5900 LLC RESIDENCE
WATER & SEWER PLAN
5900 SW 114 TERRACE
PINECREST, FLORIDA

REVISIONS

Date	Remarks	Revised By	Comments
12/20/2023		K.W.G.	



Ken W. Groce
Ken W. Groce P.E.
FL 00084
2023.08.04 10:47:36-04007

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KEN W. GROCE P.E. 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

For the Firm By: KEN W. GROCE, P.E.
FL Reg. No. 35944
Civil Engineer

Scale: As Shown In Views
Designed By: KWG
Drawn By: CDS
Checked By: KWG
Date: 8.20.2023
Project No: 23-38

Sheet:
WS-1 1 OF 1