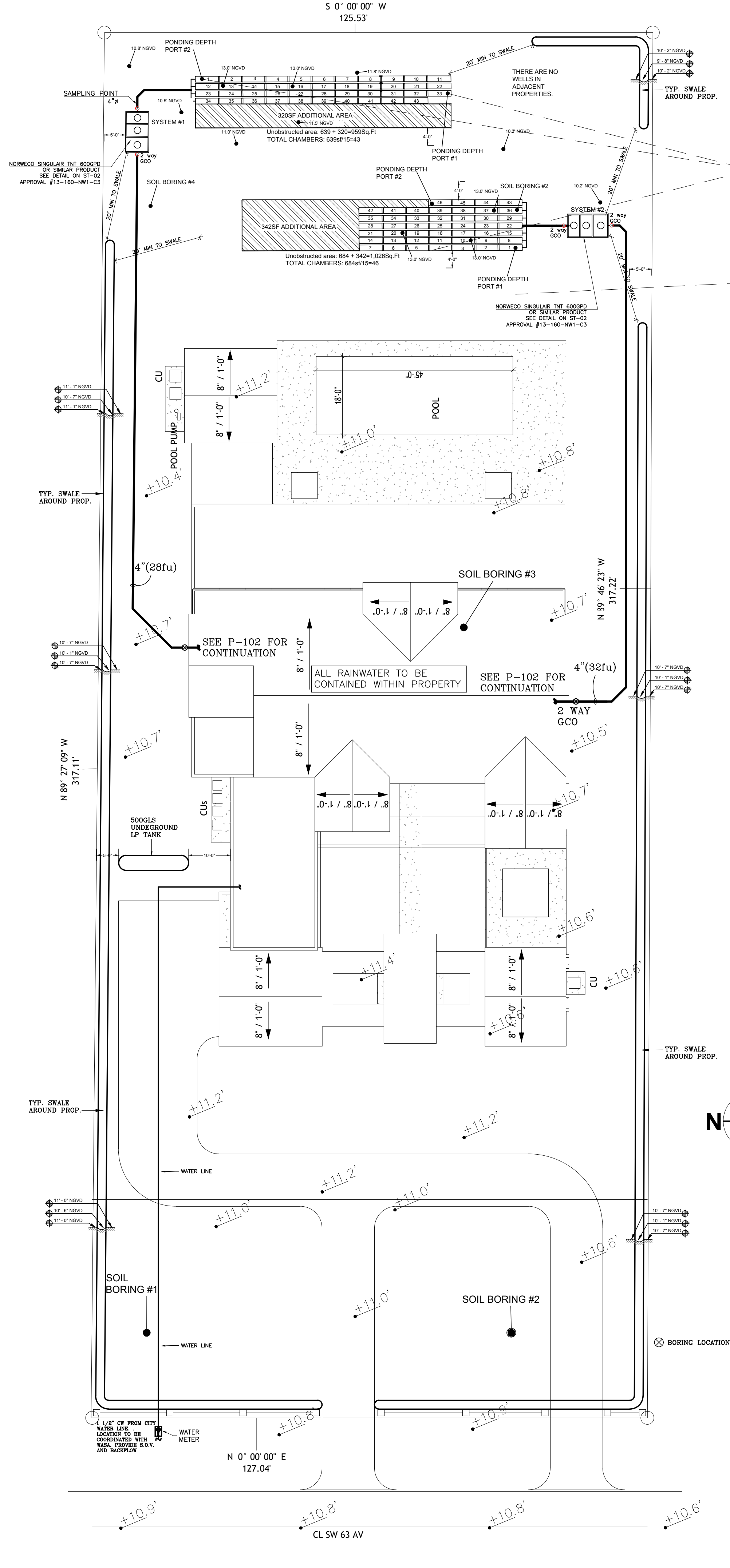
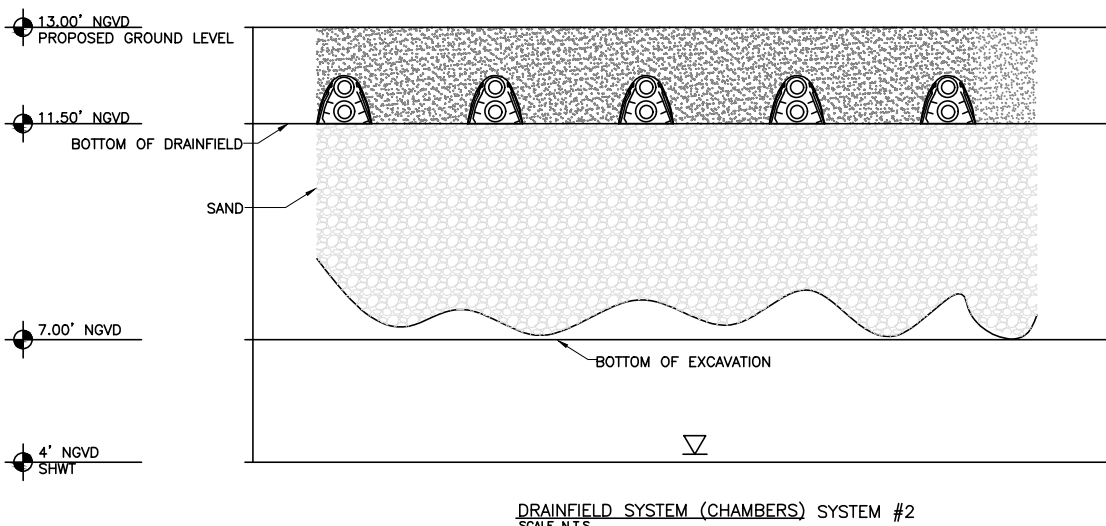
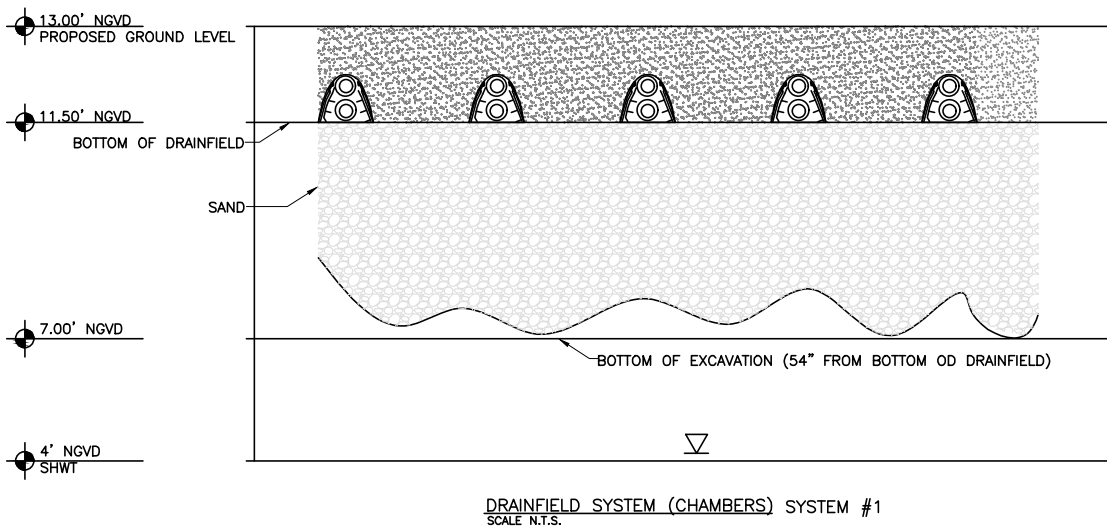




DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7		
GROSS LOT SIZE = 43,408 S.F. = 0.99 ACRES		
LAND USE: Residential		
GROSS BUILDING AREA = 9,162 S.F.		
SEWAGE FLOW = 800 GPD		
SEWAGE LOADING = 800 GPD / 0.99 ACRES = 812 GPD/ACRE		
Y	N	CRITERIA FOR OSTDS TYPE SELECTION
X		PROPERTY WILL BE SERVED BY PUBLIC WATER
X		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
X		SURFACE WATER BODIES BEYOND 1,000 FEET
X		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR/DUPLEX
X		SEWAGE FLOW IS LESS THAN 1,000 GPD FOR MULTI-FAMILY/OTHER USES
X		SEWAGE LOADING LESS THAN 500 GPD/ACRE
Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
X		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
X		SYSTEM WILL SERVE ONLY ONE LOT
TYPE OF SYSTEM REQUIRED: TYPE 3-ADVANCE SECONDARY TREATMENT STANDARDS		
TOTAL NITROGEN TREATED BY: 600 GPD NORWECO SINGULAR TNT 500 UNIT		
TOTAL PHOSPHORUS TREATED BY: NO REDUCTION		
FECAL COLIFORM TREATED BY: CHLORINATOR/DECHLORINATOR BIOKINETIC FILTER		
SOURCE OF TREATMENT STANDARDS: PDEP TESTING PERFORMANCE DATA FOR PBTS		
TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
CBOD ₅	10 MG/L	4 MG/L
TSS	10 MG/L	9 MG/L
TN	>=50% Reduction-30 MG/L	68%
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.	
NET LOT SIZE = 40,101 S.F. = 0.92 ACRES	
LAND USE: Residential	
BUILDING AREA = 9,162 S.F.	
SEWAGE FLOW	
MAXIMUM SEWAGE LOADING ALLOWANCE = 8500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)	
AUTHORIZED SEWAGE FLOW = 8500 GPD/ACRE x .96 ACRES = 8000 GPD	
UNIT FLOW CRITERIA (PER TABLE 1): Residential Table 1	
SEWAGE FLOW PER UNIT FLOW = 383 GPD/1000 S.F.	
TOTAL SEWAGE FLOW = 800 GPD	
TREATMENT TANK AND DRAINFIELD	
PROPOSED SYSTEM: 600 GPD NORWECO SINGULAR TNT UNIT	
MINIMUM REQUIRED TREATMENT CAPACITY = 600 GPD	
DRAINFIELD CONFIGURATION: BED	
DRAINFIELD TYPE: STANDARD	
DRAINFIELD MATERIAL: CHAMBER	
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.80 GAL/FT ² /DAY	
DRAINFIELD SIZE = 80/40 GPD / .80 GAL/FT ² /DAY = 800 S.F.	
SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 83)	
GRADE ELEVATION = 13.00 FT	
SEASONAL HIGH WATER TABLE ELEVATION = 4.0 FT	
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 11.50 FT	
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 75.0 INCHES	



PLUMBING SITE PLAN

SCALE: 1/16" = 1'-0"

THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREET THAT MAY AFFECT THE SYSTEM INSTALLATION

Certification of Design
I certified that the engineering features of this performance-based treatment system have been designed or specified by me and conform to engineering principles applicable to such projects. In my professional judgment, this system, when properly constructed, operated and maintained, will achieve the established performance standard and comply with all applicable status of the State of Florida and rules of the Department.
This is based on average Testing Performance Data for components of Performance-Based Treatment Systems (PBTS) by E. Roeder for innovative system testing in Florida or from test centers for evaluation of use in nutrient and fecal coliform reducing PBTS or from test centers for NSF-certification as Aerobic Treatment Units (ATUs).
Florida-approved NSF 40-Certified Models
Florida-approved NSF Standard 245 Nitrogen-Reducing, certified Aerobic Treatment Units in Florida (Rule 64E-6.012, Florida Administrative Code)
Norweco Singular TNT-500, 600, 750, 800, 1000, 1250, 1500
Average Total Nitrogen Reduction NSF 245 Completion report 68%
Singular TNT TN=6.80 mg/L, CBOD5=6 mg/L, TSS=10 mg/L
TP treatment anticipates sufficiently low influent concentrations and is expected to meet the establish performance standard.
Testing facility: Chelsea, MI

SEPTIC TANK CALCULATIONS AS PER F.A.C. 62-6.008

HOUSE WITH 8,030 A/C AND 6 BEDROOMS

8,030-3300=4,730=
4,730/750= 7x60=

400 GPD
420 GPD
TOTAL 820 GPD

THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES OR ACROSS THE STREET THAT MAY AFFECT THE ONSITE SEWAGE DISPOSAL AND TREATMENT INSTALLATION.

PROPOSED DRAIN FIELD & SEPTIC TANK SHOWN ON THIS DRAWING ARE OVER 100' AWAY FROM EXISTING ADJACENT PROPERTIES POTABLE WELLS. ALL POTABLE AND NON-POTABLE WELLS SHALL BE OVER 100' AWAY FROM ADJACENT PROPERTIES SEPTIC TANK AND DRAINFIELD. THIS CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THIS EXISTING CONDITION AND NOTIFY THIS OFFICE OF ANY CONFLICT OR CHANCE.

DRAINAGE FIELD CALCULATIONS AS PER F.A.C. 62-6.008

DESIGN
BED SYSTEM ON SANDY LIMESTONE LOADING RATE 0.6 GAL/[SF/DAY]

CALCULATION (TOTAL FU=60)
SYSTEM #1 (BED) (28fu):
28F.U. of 60F.U. x 820GPD=383 GPD
PROVIDE MINIMUM 639 Sq.FT/Min. Unobstructed area: 959 Sq.Ft
TOTAL CHAMBERS: 639/15=43

SYSTEM #2 (BED) (30fu):
30 F.U. of 60F.U. x 820GPD=410 GPD
PROVIDE MINIMUM 684 Sq.FT/Min. Unobstructed area: 1,026 Sq.Ft
TOTAL CHAMBERS: 684/15=46

SEWAGE WATER SYSTEM SPECS

AEROBIC UNIT CAPACITY
1,300 GAL MULTICHAMBERED
600 GALLONS DOSING TANK CAPACITY. BENCHMARK: 10.9'
ELEVATION OF PROPOSED SYSTEM SITE 2.1 INCHES ABOVE BENCHMARK
BOTTOM OF DRAINFIELD#1 TO BE 0.6 INCHES ABOVE BENCHMARK
BOTTOM OF DRAINFIELD#2 TO BE 0.6 INCHES ABOVE BENCHMARK

MINIMUM SETBACK WICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES:
BUILDING FOUNDATIONS 5FT
PROPERTY LINES 5FT
POTABLE WATER LINES 8FT
SITE ELEVATION 13.00' NGVD SYSTEM #1
SITE ELEVATION 13.00' NGVD SYSTEM #2
SHWT = 4' NGVD

SECTION No. 1 COVER LETTER

Miami-Dade Department of Health
O.S.T.D.S. Program
Miami Dade County Building
11805 S.W. 26th St.
Miami, FL 33175

ENGINEER OF RECORD: Daniel Gutierrez
Florida State Licensed Engineer, Lic. No. 049086
Address: 29111 Kinsington Court
Wesley Chapel, FL 33544

REFERENCE: NEW RESIDENCE
MCDONOUGH
10635 SW 63 AV
MIAMI, FL

LEGAL DESCRIPTION: LOT 2, BLOCK 6, OF: " HELMS COUNTRY ESTATES ADDITION", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 51, PAGE 64, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ID: 20-5012-004-0530

We are hereby requesting approval of a Performance-Base Treatment System (PBTS) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Registered Septic Tank Contract and/or personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

WTIMDR Engineered ATU
Operation, Maintenance, and Inspection Specifications

Operation:

Power supply to all electric components must remain constant at all times. It is not acceptable to disconnect power from the system at any time except under the direction of the maintenance entity or in case of emergency.
Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used
Maintenance and inspection 2year contract

-Inspections: Effluent monitoring and preventative maintenance shall be performed as required by 62.6 Part I, FAC.
-First inspection: At system installation by engineer.
-Second: After system has been in operation a total of 6 months by maintenance entity.
-Thereafter: every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:
Solids Check accumulation (expect pump-out every 3 to 5 years)
Blower: Confirm proper operation; clean air filter, as required.
Alarms: Trip all alarms manually to confirm effective operation
Outlet Filter: Operate filter plunger; Remove, clean, and reinstall as required.
Pump: Check operation by manually tripping float switch. Operate each pump manually at control panel
-Monitoring to be conducted semi Annually
Monitoring Sampling: At SAMPLING PORT
Pollutant to be check

- Ponding depth quarterly
- TN ≤ 50% Reduction
- TP ≤ 10 mg/l
- Fecal coliform = ≤ 200 fec col/100 ml

Contingency

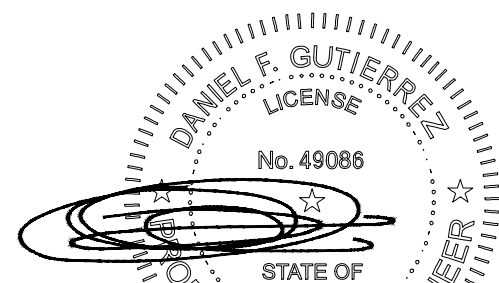
- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
- Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6.012 (4)(b)
- Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.

NEW RESIDENCE

GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL



11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

REVISIONS

NO.	DESC	DATE

SCHEMATIC SET

SEAL



JOB NUMBER:

CHECKED BY:

ISSUE DATE:

SCALE:

SHEET TITLE

SITE SEPTIC TANK DETAILS & SPECIFICATIONS

SHEET NUMBER

ST-01