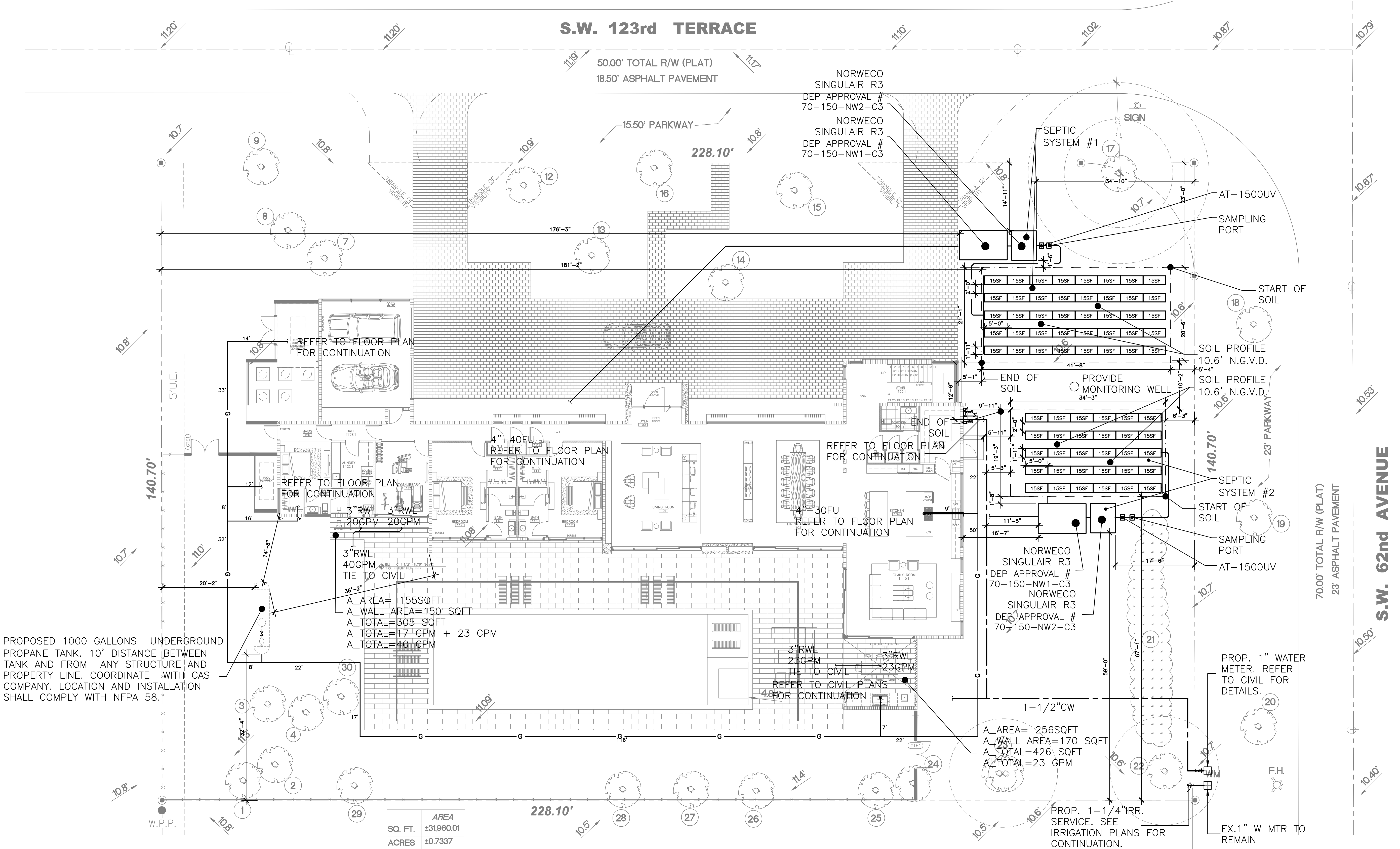


| DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7                                               |                                  |                                                                                      |
|-------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|
| GROSS LOT SIZE = <b>43,588</b> FT <sup>2</sup> = <b>1.001</b> ACRES                                         |                                  |                                                                                      |
| LAND USE: <b>SINGLE-FAMILY RESIDENCE</b>                                                                    |                                  |                                                                                      |
| GROSS BUILDING AREA = <b>10,156</b> FT <sup>2</sup>                                                         |                                  |                                                                                      |
| SEWAGE FLOW = <b>510</b> GPD                                                                                |                                  |                                                                                      |
| SEWAGE LOADING = <b>510</b> GPD / <b>1.001</b> ACRES = <b>509.5</b> 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 1000 FEET                                                |
| X                                                                                                           |                                  | SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR/DUPLEX                                      |
| N/A                                                                                                         |                                  | SEWAGE FLOW IS LESS THAN 1000 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                                                       |
| X                                                                                                           |                                  | PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL |
| TYPE OF SYSTEM REQUIRED : <b>TYPE 3 - ADVANCED SECONDARY TREATMENT STANDARDS</b>                            |                                  |                                                                                      |
| TOTAL NITROGEN TREATED BY: <b>NORWECO SINGLAIR R3</b>                                                       |                                  |                                                                                      |
| TOTAL PHOSPHORUS TREATED BY: <b>BIOKINETIC SYSTEM</b>                                                       |                                  |                                                                                      |
| FECAL COLIFORM TREATED BY: <b>NORWECO SINGLAIR R3 - BIOKINETIC SYSTEM CHLORINATION &amp; DECHLORINATION</b> |                                  |                                                                                      |
| SOURCE OF TREATMENT STANDARDS : <b>TESTING PERFORMANCE DATA FOR COMPONENTS OF PBTS</b>                      |                                  |                                                                                      |
| TREATMENT STANDARDS                                                                                         |                                  |                                                                                      |
| POLLUTANT                                                                                                   | REQUIRED (mg/L) (ANNUAL AVERAGE) | PROPOSED (mg/L) (ANNUAL AVERAGE)                                                     |
| CBOD <sub>5</sub>                                                                                           | 10                               | 5                                                                                    |
| TSS                                                                                                         | 10                               | 4.6                                                                                  |
| TN                                                                                                          | 50%                              | 65.7%                                                                                |
| TP                                                                                                          | 10                               | 10                                                                                   |
| FECAL COLIFORM (cfu/100ml)                                                                                  | 200                              | 2                                                                                    |

| OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------|--|
| NET LOT SIZE = <b>31,798</b> FT <sup>2</sup> = <b>0.730</b> ACRES                                               |  |
| LAND USE: <b>SINGLE-FAMILY RESIDENCE</b>                                                                        |  |
| BUILDING AREA = <b>7,928</b> FT <sup>2</sup> & <b>7</b> BEDROOMS                                                |  |
| <b>SEWAGE FLOW</b>                                                                                              |  |
| MAXIMUM SEWAGE LOADING ALLOWANCE = <b>2,500</b> GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)                     |  |
| AUTHORIZED SEWAGE FLOW = <b>2,500</b> GPD/ACRE x <b>0.730</b> ACRES = <b>1,825</b> GPD                          |  |
| UNIT FLOW CRITERIA (PER TABLE 1) : <b>NUMBER OF BEDROOMS/BUILDING AREA</b>                                      |  |
| SEWAGE FLOW PER UNIT FLOW = <b>400</b> GPD FOR 4 BEDS W/ 2251-3300 SQFT + <b>60</b> GPD PER ADDITIONAL 750 SQFT |  |
| TOTAL SEWAGE FLOW = <b>820</b> GPD                                                                              |  |
| <b>TREATMENT TANK AND DRAINFIELD</b>                                                                            |  |
| PROPOSED SYSTEM : <b>NORWECO SINGLAIR R3</b>                                                                    |  |
| MINIMUM REQUIRED TREATMENT CAPACITY = <b>820</b> GPD                                                            |  |
| DRAINFIELD CONFIGURATION : <b>TRENCH</b>                                                                        |  |
| DRAINFIELD TYPE : <b>STANDARD</b>                                                                               |  |
| DRAINFIELD MATERIAL : <b>CHAMBERS</b>                                                                           |  |
| MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = <b>0.8</b> GAL/FT <sup>2</sup> DAY                    |  |
| DRAINFIELD SIZE = <b>820</b> GPD / <b>0.8</b> GAL/FT <sup>2</sup> DAY = <b>1025</b> FT <sup>2</sup>             |  |
| <b>SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN N.G.V.D.)</b>                        |  |
| GRADE ELEVATION = <b>10.6</b> FT                                                                                |  |
| SEASONAL HIGH WATER TABLE ELEVATION = <b>3.5</b> FT                                                             |  |
| ELEVATION AT THE BOTTOM OF THE DRAINFIELD = <b>8.6</b> FT                                                       |  |
| SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = <b>61.2</b> INCHES                                           |  |

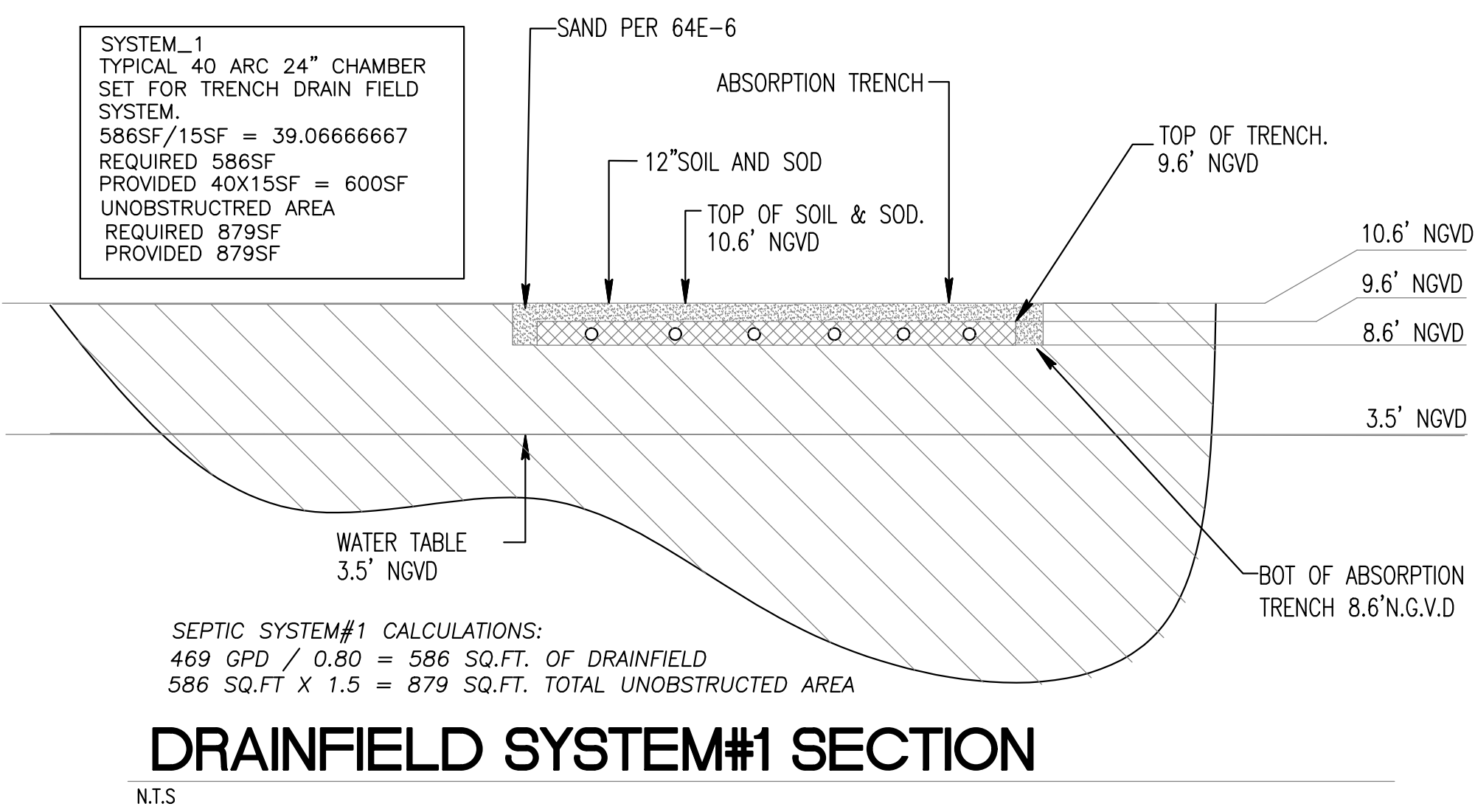
| SEPTIC TANK CALCULATION           |          |              |                      |
|-----------------------------------|----------|--------------|----------------------|
| NUMBER OF SYSTEMS                 |          | 1            |                      |
| TOTAL LIVING AREA                 |          | 7,928 SF     |                      |
| TOTAL OF BEDROOMS                 |          | 7            |                      |
|                                   | 7,928    | -3300        | 4 bedrooms (400 GPD) |
|                                   | 4,628    | 750          |                      |
|                                   | 6.2      | add          | 420 GPD              |
| FLOW ALLOWANCE                    |          | 820 GPD      |                      |
| TOTAL LOT AREA                    |          | 0.7300 ACRES |                      |
| TOTAL FLOW PER DAY PER ACRE ALLOW |          | 1825 GPD     |                      |
| FIXTURE COUNT CALCULATION         |          |              |                      |
| SYSTEM #1                         | FU       | #            | TOTAL                |
| FULL BATHROOM                     | 6        | 5            | 30                   |
| WASHER                            | 2        | 2            | 4                    |
| POOL BATH                         | 4        | 1            | 4                    |
| LAUNDRY SINK                      | 2        | 1            | 2                    |
| TOTAL FIXTURES                    |          |              | 40                   |
| SYSTEM #2                         | FU       | #            | TOTAL                |
| FULL BATHROOM                     | 6        | 1            | 6                    |
| KITCHEN SINK W/DISHWASHER         | 2        | 1            | 2                    |
| DISHWASHER                        | 2        | 1            | 2                    |
| POWDER                            | 4        | 1            | 4                    |
| BBQ SINK                          | 2        | 1            | 2                    |
| BBQ ICEMAKER                      | 2        | 1            | 2                    |
| MASTER BATHROOM                   | 12       | 1            | 12                   |
| TOTAL FIXTURES                    |          |              | 30                   |
| TOTAL HOUSE FU                    |          | 70           |                      |
| FLOW CALCULATION                  |          |              |                      |
| SYSTEM                            | 1        |              |                      |
| SYSTEM FLOW =                     | #FU      | X TOTAL FLOW |                      |
|                                   | TOTAL FU |              |                      |
|                                   | = 40     | X            | 820                  |
|                                   | = 469    | GPD          |                      |
| UNOBSTRUCTED AREA                 |          |              | 586                  |
|                                   |          |              | 879                  |
| SYSTEM                            | 2        |              |                      |
| SYSTEM FLOW =                     | 30       | X TOTAL FLOW |                      |
|                                   | TOTAL FU |              |                      |
|                                   | = 30     | X            | 820                  |
|                                   | = 351    | GPD          |                      |
| UNOBSTRUCTED AREA                 |          |              | 439                  |
|                                   |          |              | 659                  |



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

BENCHMARK ELEVATION  
BM # SC-25 Elev.=16.85'  
LEGEND  
-- UNOBSTRUCTED AREA

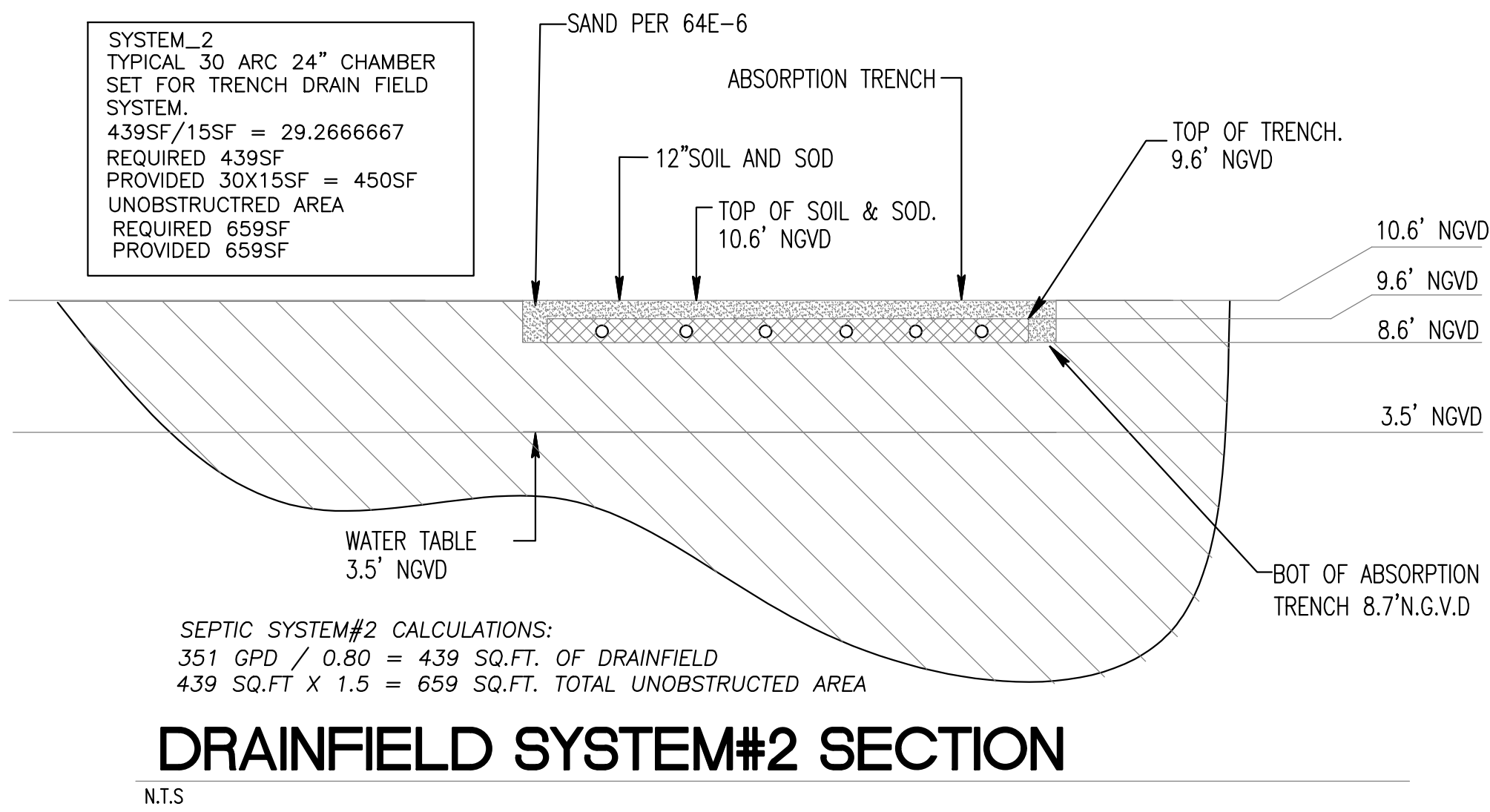


SEPTIC SYSTEM#1 CALCULATIONS:  
469 GPD / 0.80 = 586 SQ.FT. OF DRAINFIELD  
586 SQ.FT X 1.5 = 879 SQ.FT. TOTAL UNOBSTRUCTED AREA

N.T.S

GROSS LOT SIZE = 43,588 SQFT = 1.001 ACRES  
GROSS BUILDING AREA = 10,156 SQFT  
LOT SIZE = 31,798 SQFT = 0.730 ACRES  
FIRST FLOOR LIVING AREA = 4,814 SQFT  
SECOND FLOOR LIVING AREA = 3,114 SQFT  
TOTAL LIVING AREA = 7,928 SQFT

1 PLUMBING SITE PLAN  
SCALE: 3/32\"/>



SEPTIC SYSTEM#2 CALCULATIONS:  
351 GPD / 0.80 = 439 SQ.FT. OF DRAINFIELD  
439 SQ.FT X 1.5 = 659 SQ.FT. TOTAL UNOBSTRUCTED AREA

Drainfield System#2 Section

N.T.S

This item has been digitally signed and sealed by Amarilis Rodriguez, 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.

Engineering Design  
Mechanical > Electrical  
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www.arpe-eng.com

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Coral Gables, Florida 33134  
Phone > 305 444 9809  
Fax > 305 444 9827

Signature: Amarilis Rodriguez  
Date: 2023.12.12  
Time: 16:03:49  
Seal: PS-100

PROJECT NO: 2308

CLIENT: RONALDO FLI, LLC  
1200 BISCAYNE BLVD.  
MIAMI, FLORIDA 33181

REVISIONS:

C/S ENGINEERING GROUP INC.  
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MEP ENGINEERING  
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ISA CERTIFIED ARBORIST  
57 SILVER SPRINGS DRIVE  
KEY LARGO, FLORIDA 33037  
TERRA CIVIL ENGINEERING, LLC  
CIVIL ENGINEERING  
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CASA OHAD  
6200 SW 123RD TERRACE PINECREST, FLORIDA 33156

PROJECT DESCRIPTION:  
SINGLE FAMILY RESIDENCE

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SCALE:

PREPARED BY: FELIPE ALVARADO AR 91841

PHASE: CONSTRUCTION DOCUMENTS

DATE: DECEMBER 12, 2023

SHEET TITLE: PLUMBING SITE PLAN

SHEET:

PS-100