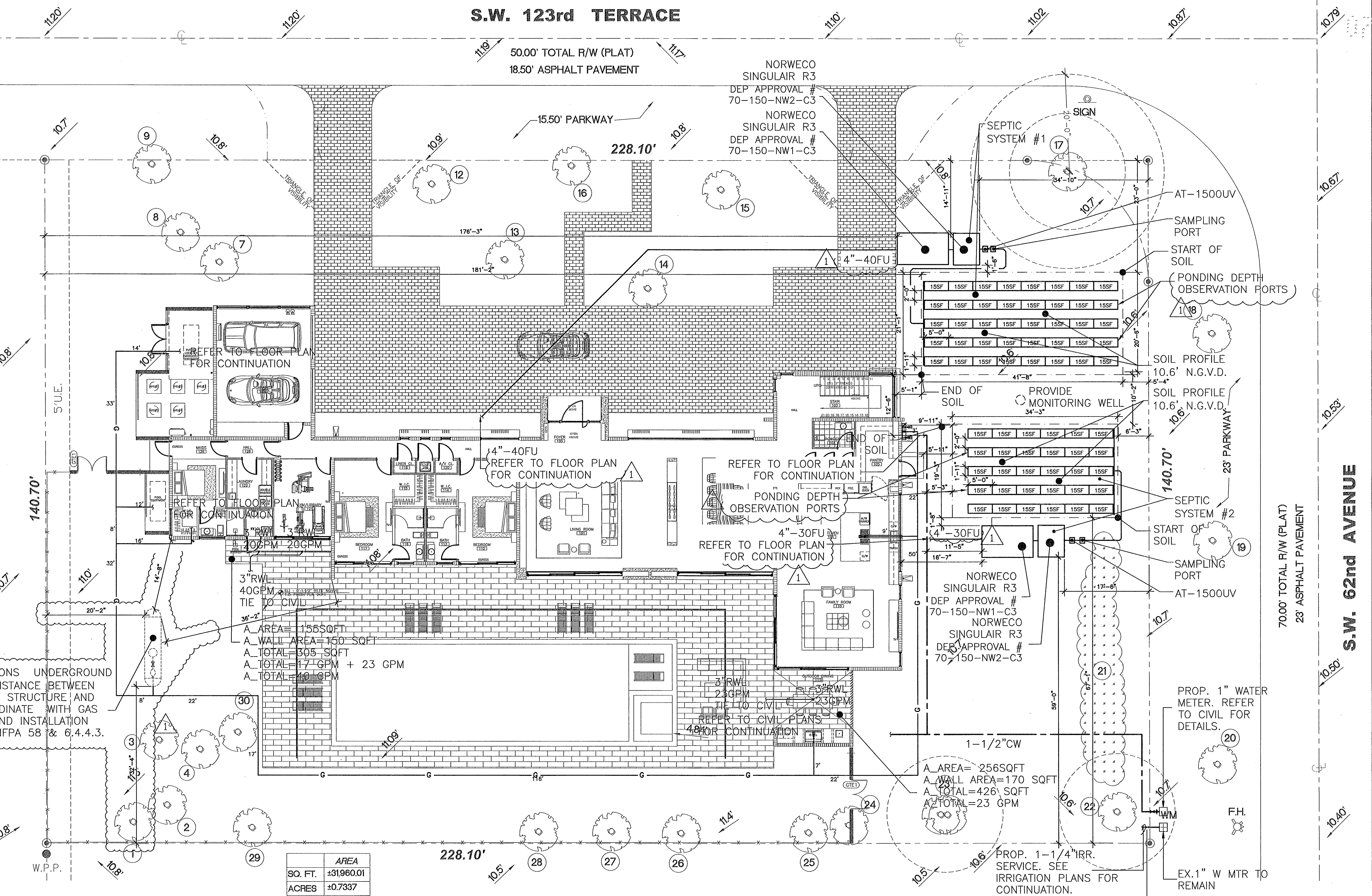


DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7		
GROSS LOT SIZE = 43,588 FT ² = 1.001 ACRES		
LAND USE: SINGLE-FAMILY RESIDENCE		
GROSS BUILDING AREA = 10,156 FT ²		
SEWAGE FLOW = 510 GPD		
SEWAGE LOADING = 510 GPD / 1.001 ACRES = 509.5 GPD/ACRE		
Y	N	CRITERIA FOR OSTDS TYPE SELECTION
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: TYPE 3 - ADVANCED SECONDARY TREATMENT STANDARDS		
TOTAL NITROGEN TREATED BY: NORWECO SINGULAR R3		
TOTAL PHOSPHORUS TREATED BY: BIOKINETIC SYSTEM		
FECAL COLIFORM TREATED BY: NORWECO SINGULAR R3 - BIOKINETIC SYSTEM CHLORINATION & DECHLORINATION		
SOURCE OF TREATMENT STANDARDS: TESTING PERFORMANCE DATA FOR COMPONENTS OF PBTS		
TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
CBOD ₅	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 = 31,798 FT ² = 0.730 ACRES		
LAND USE: SINGLE-FAMILY RESIDENCE		
BUILDING AREA = 7,928 FT ² & 7 BEDROOMS		
SEWAGE FLOW		
MAXIMUM SEWAGE LOADING ALLOWANCE = 2,500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)		
AUTHORIZED SEWAGE FLOW = 2,500 GPD/ACRE x 0.730 ACRES = 1,825 GPD		
UNIT FLOW CRITERIA (PER TABLE 1): NUMBER OF BEDROOMS/BUILDING AREA		
SEWAGE FLOW PER UNIT FLOW = 400 GPD FOR 4 BEDS W/ 2251-3300 SQFT + 60 GPD PER ADDITIONAL 750 SQFT		
TOTAL SEWAGE FLOW = 820 GPD		
TREATMENT TANK AND DRAINFIELD		
PROPOSED SYSTEM: NORWECO SINGULAR R3		
MINIMUM REQUIRED TREATMENT CAPACITY = 820 GPD		
DRAINFIELD CONFIGURATION: TRENCH		
DRAINFIELD TYPE: STANDARD		
DRAINFIELD MATERIAL: CHAMBERS		
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.8 GAL/FT ² /DAY		
DRAINFIELD SIZE = 820 GPD / 0.8 GAL/FT ² /DAY = 1025 FT ²		
SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN N.G.V.D.)		
GRADE ELEVATION = 10.8 FT		
SEASONAL HIGH WATER TABLE ELEVATION = 4.0 FT		
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 8.6 FT		
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 55.2 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	SYSTEM FLOW = 1	#FU X TOTAL FLOW	DRAIN FIELD REQUIRED BED (SF) = GPD/0.8
		TOTAL FU	
		= 40 X 820	
		= 469 GPD	586
UNOBSTRUCTED AREA			879
SYSTEM	SYSTEM FLOW = 2	30 X TOTAL FLOW	
		TOTAL FU	
		= 30 X 820	
		= 351 GPD	439
UNOBSTRUCTED AREA			659



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

GROSS LOT SIZE = 43,588 SQFT = 1.001 ACRES

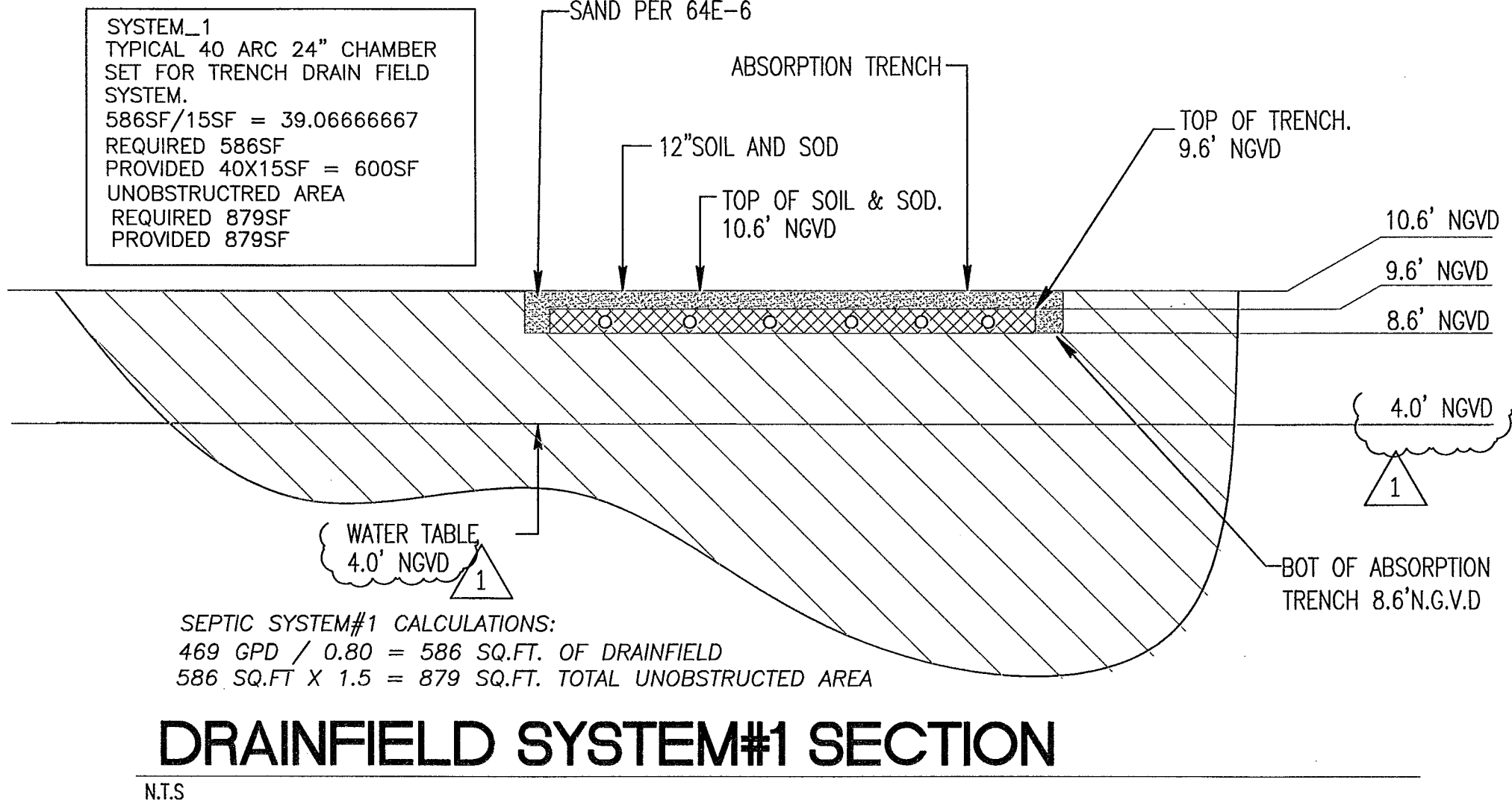
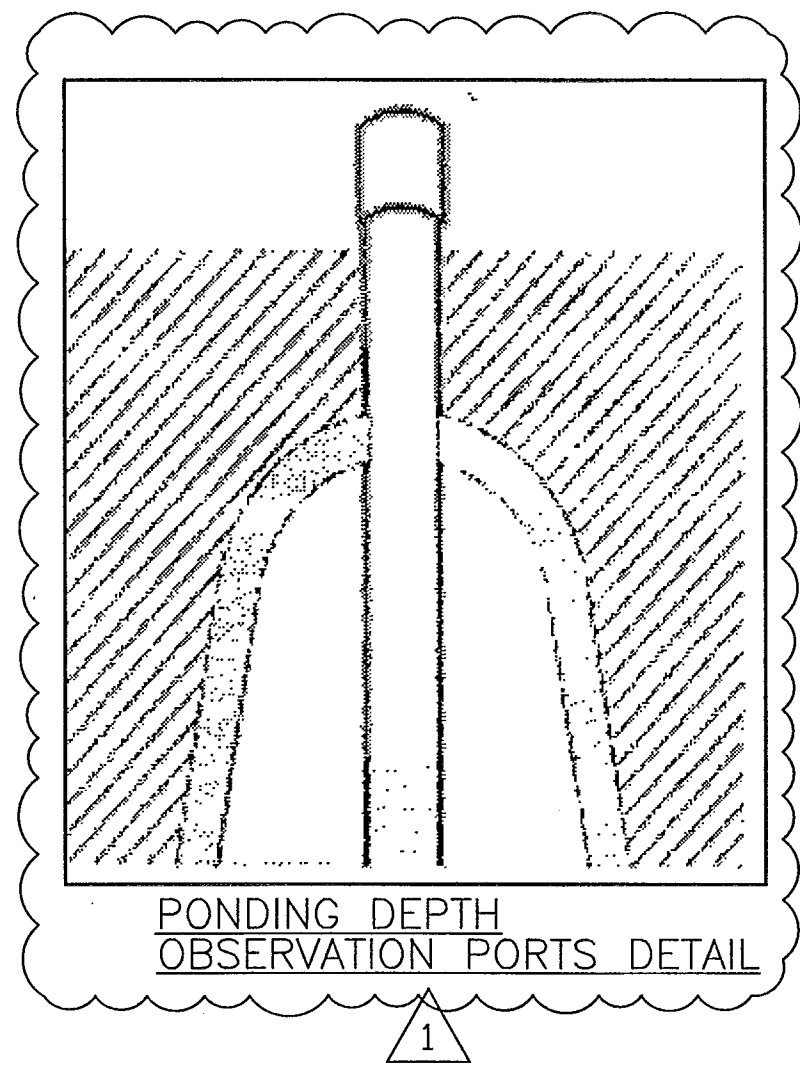
GROSS BUILDING AREA = 10,156 SQFT

LOT SIZE = 31,798 SQFT = 0.730 ACRES

FIRST FLOOR LIVING AREA = 4,814 SQFT

SECOND FLOOR LIVING AREA = 3,114 SQFT

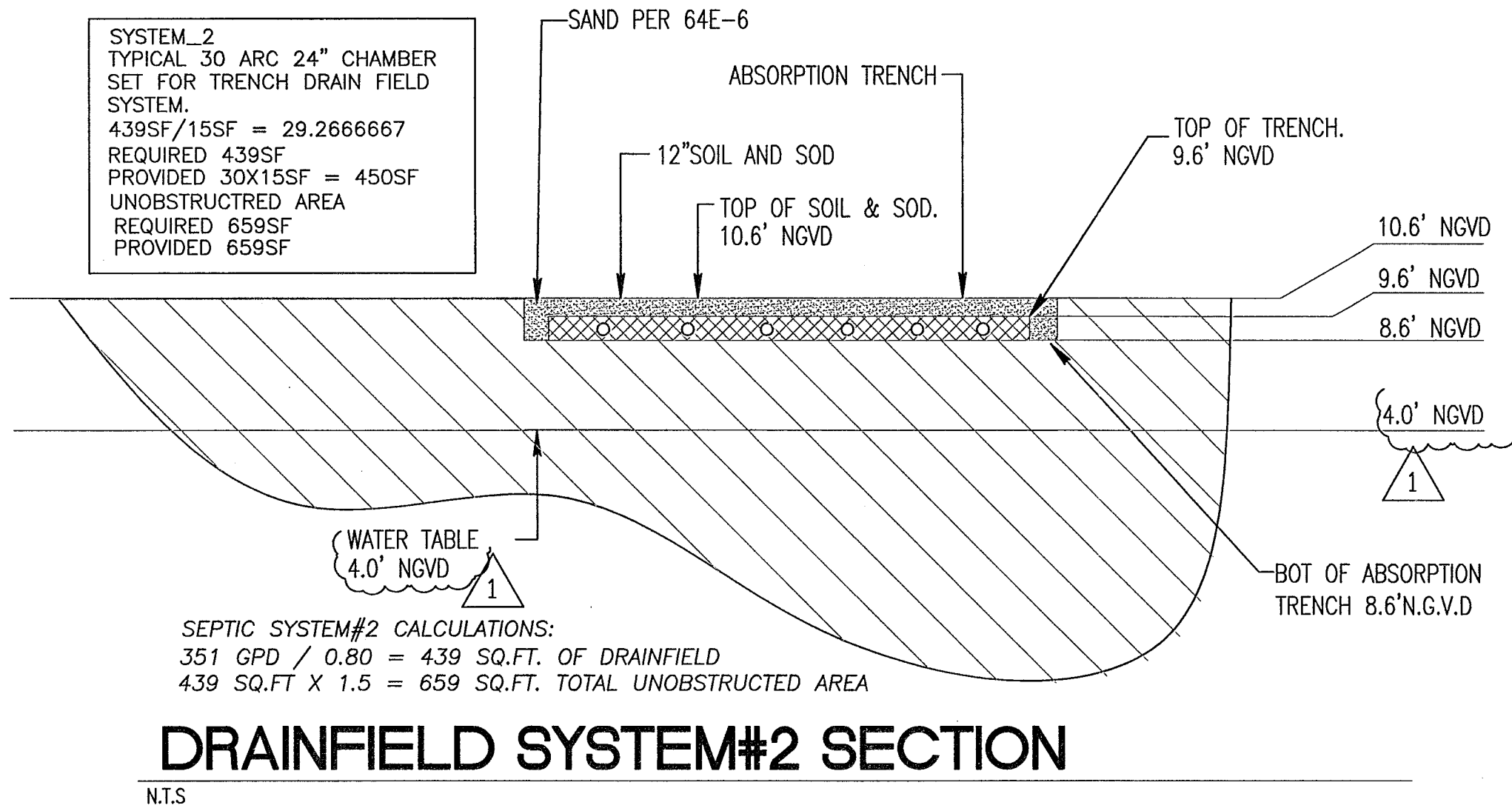
TOTAL LIVING AREA = 7,928 SQFT



DRAINFIELD SYSTEM#1 SECTION

PLUMBING SITE PLAN

SCALE: 3/32"=1'-0"



DRAINFIELD SYSTEM#2 SECTION