Accelerated Certification Training
Part I (MC Part I)-Onsite Wastewater Concepts, Materials,
Regulations and the Application Process

# HANDOUTS, SAMPLE FORMS, AND CLASSROOM EXERCISES

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A large resource of information including, forms, memos, reports, rules and more can be found at the Onsite Sewage Program's Website at: http://www.floridahealth.gov/environmental-health/onsite-sewage/index.html

Updated versions of the course agenda can be found online at the following address:

http://www.floridahealth.gov/environmental-health/onsite-sewage/training/accelerated-certification-training.html

**STATE OF FLORIDA**
**DEPARTMENT OF HEALTH**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM**
**APPLICATION FOR CONSTRUCTION PERMIT**

PERMIT NO. 10-1000-N
DATE PAID: 7/01/2010
FEE PAID:
RECEIPT #:

APPLICATION FOR:
[ x] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Tom Smith

AGENT: Sunshine Septic Company TELEPHONE: 407-111-1111

MAILING ADDRESS: 111 Somewhere Place, Oviedo, FL 32765

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

==========

PROPERTY INFORMATION

LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks PLATTED: 1/1/71

PROPERTY ID #: 293031000782 ZONING: R I/M OR EQUIVALENT: [ Y / N]

PROPERTY SIZE: .40 ACRES WATER SUPPLY: [ x] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / N ] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 312 Cypress Ave., Geneva, FL 32765

DIRECTIONS TO PROPERTY: see attached map

BUILDING INFORMATION [ x] RESIDENTIAL [ ] COMMERCIAL

| Unit No | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 2 | 840 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

[ ] Floor/Equipment Drains [ ] Other (Specify)

SIGNATURE: *Tom Smith* DATE: 7/01/2010

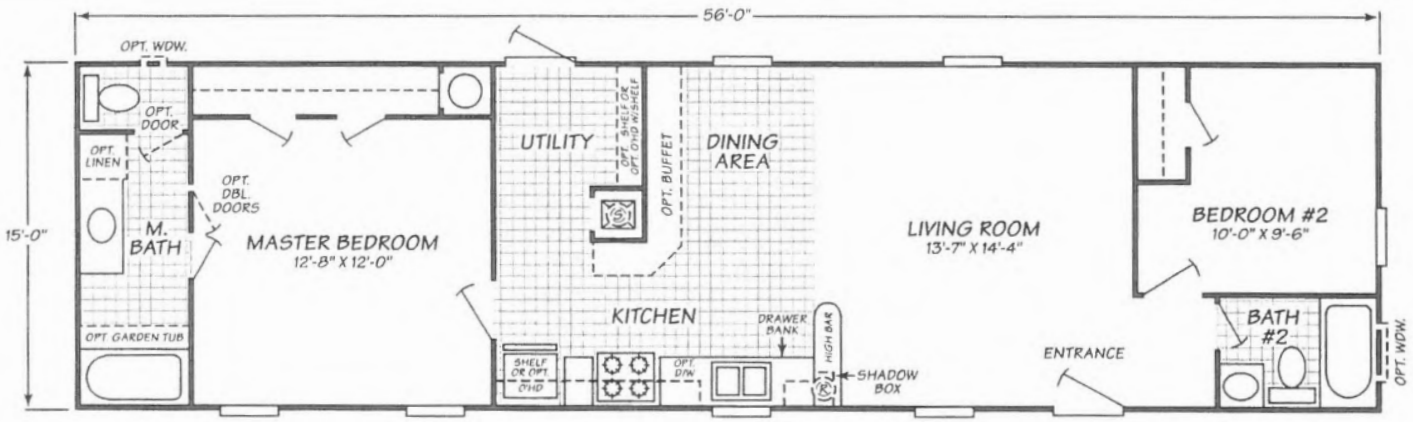
DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

| | |
|---|---|
| APPLICANT: | Property owner's full name. |
| AGENT: | Property owner's legally authorized representative. |
| TELEPHONE: | Telephone number for applicant or agent. |
| MAILING ADDRESS: | P.O. box or street, city, state and zip code mailing address for applicant or agent. |
| LOT, BLOCK, SUBDIVISION: | Lot, block, and subdivision for lot (recorded or unrecorded subdivision). If lot is not in a recorded subdivision, a copy of the lot legal description or deed must be attached. |
| DATE OF SUBDIVISION: | Official date of subdivision recorded in county plat books (month/day/year) or date lot originally recorded. Dividing an approved lot into two or more parcels for the purpose of conveying ownership shall be considered a subdivision of the lot. |
| PROPERTY ID#: | 27 character number for property. CHD may require property appraiser ID # or section/township/range/parcel number. |
| ZONING: | Specify zoning and whether or not property is in I/M zoning or equivalent usage. |
| PROPERTY SIZE: | Net usable area of property in acres (square footage divided by 43,560 square feet) exclusive of all paved areas and prepared road beds within public rights-of way or easements and exclusive of streams, lakes, normally wet drainage ditches, marshes, or other such bodies of water. Contiguous unpaved and non-compacted road rights-of-way and easements with no subsurface obstructions may be included in calculating lot area. |
| WATER SUPPLY: | Check private or public <= 2000 gallons per day or public > 2000 gallons per day. |
| SEWER AVAILABILITY: | Is sewer available as per 381.0065, Florida Statutes, and distance to sewer in feet. |
| PROPERTY ADDRESS: | Street address for property. For lots without an assigned street address, indicate street or road and locale in county. |
| DIRECTIONS: | Provide detailed instructions to lot or attach an area map showing lot location. |
| BUILDING INFORMATION: | Check residential or commercial. |
| TYPE ESTABLISHMENT: | List type of establishment from Table II, Chapter 64E-6, FAC. Examples: single family, single wide mobile home, restaurant, doctor's office. |
| NO. BEDROOMS: | Count all rooms designed primarily for sleeping and those areas expected to routinely provide sleeping accommodations for occupants. |
| BUILDING AREA: | Total square footage of enclosed habitable area of dwelling unit, excluding garage, carport, exterior storage shed, or open or fully screened patios or decks. Based on outside measurements for each story of structure. |
| BUSINESS ACTIVITY: | For commercial/institutional applications only. List number of employees, shifts, and hours of operation, or other information required by Table II, Chapter 64E-6, FAC. |
| FIXTURES: | Mark Floor/Equipment Drains or Others and specify item or "NA" if not applicable. |
| SIGNATURE / DATE: | Signature of applicant or agent. Date application submitted to the CHD with appropriate fees and attachments. |

ATTACHMENTS: A site plan drawn to scale, showing boundaries with dimensions, locations of residences or buildings, swimming pools, recorded easements, onsite sewage disposal system components and location, slope of property, any existing or proposed wells, drainage features, filled areas, obstructed areas, and surface water. Location of wells, onsite sewage disposal systems, surface waters, and other pertinent facilities or features on adjacent property, if the features are with 75 feet of the applicant lot. Location of any public well within 200 feet of lot. For residences, a floor plan (residences) showing number of bedrooms and building area of each unit. For nonresidential establishments, a floor plan showing the square footage of the establishment, all plumbing drains and fixture types, and other features necessary to determine composition and quantity of wastewater.

## FLOOR PLAN for Tom Smith - 312 Cypress Avenue,

# 2 Bedrooms · 2 Baths · 840 Square Feet



**STATE OF FLORIDA**
**DEPARTMENT OF HEALTH**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM**
**SITE EVALUATION AND SYSTEM SPECIFICATIONS**

PERMIT #. 10-1000-N

APPLICANT: Tom Smith AGENT: Sunshine Septic Company

LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks

PROPERTY ID #:[Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTEMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINNEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [x] YES [ ] NO NET USABLE AREA AVAILABLE: 0.37 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 200 GALLONS PER DAY [RESIDENCES-TABLE 1/OTHER-TABLE2]
AUTHORIZED SEWAGE FLOW: 554.41 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 3375.00 SQFT UNOBSTRUCTED AREA REQUIRED: 375.00 SQFT

BENCHMARK/REFERENCE POINT LOCATION: disc on CL of RD near SE corner of property
ELEVATION OF PROPOSED SYSTEM SITE IS 12 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: 80 FT DITCHES/SWALES: 35 FT NORMALLY WET? [ ] YES [x] NO
WELLS: PUBLIC: NA FT LIMITED USE: NA FT PRIVATE: 85 FT NON-POTABLE: 73 FT
BUILDING FOUNDATIONS: 10 FT PROPERTY LINES: 17 FT POTABLE WATER LINES: 14 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [x] NO 10 YEAR FLOODING? [ ] YES [x] NO
10 YEAR FLOOD ELEVATION FOR SITE: NA FT MSL/NGVD SITE ELEVATION: NA FT MSL/NGVD

SOIL PROFILE INFORMATION SITE 1

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10YR 2/1 Blk | FS | 0 TO 6 |
| 10YR 5/1, 7/1 | FS | 6 TO 12 |
| 10YR 7/2 | FS | 12 TO 32 |
| 10YR 3/1 Dk Br | FS spodic | 32 TO 39 |
| 10YR 4/3 Br | FS spodic | 39 TO 45 |
| 10YR 5/3 Br | FS | 45 TO 72 |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: similar to Myakka

SOIL PROFILE INFORMATION SITE 2

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10YR 2/1 Blk | FS | 0 TO 7 |
| 10YR 5/1, 7/1 | FS | 7 TO 12 |
| 10YR 7/2 | FS | 12 TO 18 |
| 10YR 2/1 Blk | FS spodic | 18 TO 40 |
| 10YR 3/3 Dk Br | FS spodic | 40 TO 48 |
| 10YR 5/4 YB | FS | 48 TO 72 |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: similar to Myakka

OBSERVED WATER TABLE: 16 INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]
ESTIMATED WET SEASON WATER TABLE ELEVATION: 6 INCHES [ABOVE / BELOW] EXISTING GRADE
HIGH WATER TABLE VEGETATION: [x] YES [ ] NO MOTTLING: [x] YES [ ] NO DEPTH: 6 INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: FS/0.80 DEPTH OF EXCAVATION: 48 INCHES
DRAINFIELD CONFIGURATION: [x] TRENCH [ ] BED [ ] OTHER (SPECIFY)
REMARKS/ADDITIONAL CRITERIA:
Soil profile #1 is 12" above RP, Soil profile #2 is 13" above RP.
Stripping at 6" below grade "10YR 7/1 in 5/1 matrix".

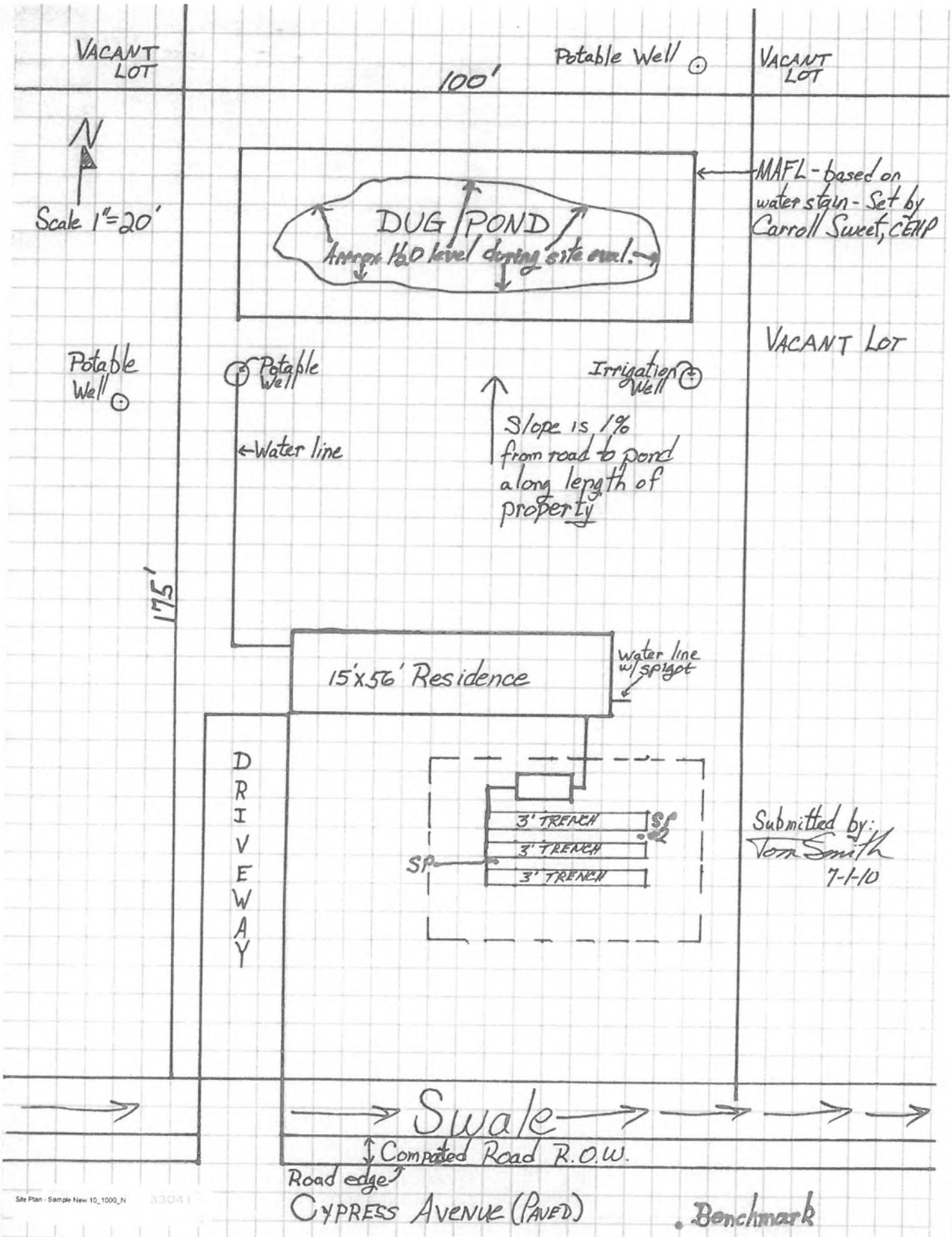
SITE EVALUATED BY: *Carroll Sweet*, ESI DATE: 7/2/2010

INSTRUCTIONS:

| | |
|---|---|
| PERMIT #: | Permit tracking number assigned by County Health Department. |
| APPLICANT: | Property owner's full name. |
| AGENT: | Property owner's legally authorized representative. |
| LOT, BLOCK,SUBDIVISION: | Lot, block, and subdivision for lot. |
| PROPERTY ID#: | 27 character number for property (property appraiser ID # or section/township/range/parcel number). |
| PROPERTY SIZE: | Check if property size at site conforms to submitted site plan. Record net usable area available - lot area exclusive of all paved areas and prepared road beds within public rights-of-way or easements and exclusive of streams, lakes, normally wet drainage ditches, marshes, or other such bodies of water. |
| SEWAGE FLOW: | Record the estimated sewage flow for the establishment from Table 1 (residential) or Table 2 (non-residential), Chapter 64E-6, FAC. Record the authorized sewage flow for the lot based on net usable area and water supply (1500 gallons per day per acre for private water supplies and 2500 gallons per day per acre for public water supplies). If authorized sewage flow does not equal or exceed the estimated sewage flow, the application must be denied. |
| UNOBSTRUCTED AREA: | Record the square feet of unobstructed area available and the amount required. Unobstructed area must be at least 2 times as large as the drainfield absorption area and at least 75 percent of the unobstructed area must meet minimum setbacks in Chapter 64E-6, FAC. The unobstructed area must be contiguous to the drainfield. |
| BENCHMARK INFORMATION: | Record the location of the benchmark. If using a surveyor's benchmark record the actual elevation. Record the elevation of the proposed system site in relation (above or below) to the benchmark. |
| MINIMUM SETBACKS: | Record minimum setbacks which can be met to all listed features. Actual measurements must be recorded or "NA" for non applicable features. Features on site plan or within 75 feet of the applicant lot must be measured. The location of any public drinking well within 200 feet of the applicant's lot must also be verified. |
| FLOOD INFORMATION: | Record information on lot's subject to flooding. For lots subject to flooding record 10 year flood elevation for site and actual site elevation. |
| SOIL PROFILE INFORMATION: | Two soil profiles within the proposed absorption area to a minimum depth of 6 feet or refusal are required. Soil identification will use USDA Soil Classification methodology (Munsell colors and USDA soil textures). Refusals must be clearly documented. Provide USDA soil series if available, record "UNK" if the series cannot be determined. |
| WATER TABLE: | Record the depth of the observed water table at the time of the evaluation. Mark "perched" or "apparent" as appropriate. Record the estimated wet season water table elevation based on site evaluation, USDA soil maps, and historical information. Indicate if there is high water table vegetation present. Indicate if mottling is present and depth. |
| SOIL TEXTURE: | Record soil texture or loading rate for system sizing. |
| DEPTH OF EXCAVATION: | If applicable record depth of excavation required. Record "NA" if not applicable. |
| DRAINFIELD CONFIGURATION: | Check drainfield configuration required. If other, specify type. |
| ADDITIONAL CRITERIA: | Record any additional remarks pertinent to site or installation. Ex. Dosing required. |
| SITE EVALUATED BY: | Signature of evaluator, title, and date of evaluation. Professional engineers must seal all documentation submitted |

ELEVATION WORKSHEET — ELEVATION OF BENCHMARK / REFERENCE POINT IS: _____

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| BENCHMARK | _____ | SITE 1 | | SITE 2 | | SITE 3 | |
| [+] SHOT | _____ | H.I. | _____ | H.I. | _____ | H.I. | _____ |
| H.I. | _____ | [-] SHOT | _____ | [-]- SHOT | _____ | [-] SHOT | _____ |
| | _____ | | _____ | | _____ | | _____ |


VACANT LOT
100'
Potable Well
VACANT LOT
N
Scale 1"=20'
DUG POND
Approx H2O level during site eval.
MAFL - based on water stain - Set by Carroll Sweet, CEHP
VACANT LOT
Potable Well
Potable Well
Irrigation Well
Water line
Slope is 1% from road to pond along length of property
175'
15'x56' Residence
water line w/ spigot
DRIVEWAY
3' TRENCH
3' TRENCH
3' TRENCH
SP
Submitted by:
Tom Smith
7-1-10
Swale
Compated Road R.O.W.
Road edge
CYPRESS AVENUE (PAVED)
Benchmark
Site Plan - Sample New 10_1000_N

## INSTRUCTIONS FOR DH 4015, 01/12, PG 2 OF 4 – SITE PLAN (Reference: 64E-6.004, FAC)

**FOR NEW/EXISTING/MODIFICATION SYSTEM APPLICATIONS:** The site plan shall be **DRAWN TO A SCALE** of 1 inch = 10, 20, 30, 40, 50 or 60 feet and shall be for the property where the system is to be installed.

☐ 1. The site plan shall **SHOW BOUNDARIES WITH DIMENSIONS** and any of the following **FEATURES THAT EXIST OR THAT ARE PROPOSED**:
☐ a. Structures;
☐ b. Swimming pools;
☐ c. Recorded easements;
☐ d. Onsite sewage treatment and disposal system components;
☐ e. Slope of the property;
☐ f. Wells;
☐ g. Potable and non-potable water lines and valves;
☐ h. Drainage features;
☐ i. Filled areas;
☐ j. Excavated areas for onsite sewage systems;
☐ k. Obstructed areas;
☐ l. Surface water bodies *Requires a surveyor to set the Mean High Water Line boundary for tidally influenced surface water bodies. Requires a surveyor or department staff to set the Mean Annual Flood Line for permanent non-tidal surface water bodies.*
☐ m. Location of the reference point for system elevation.
☐ 2. If the county health department is responsible for performing the site evaluation, the applicant or applicant's authorized representative shall **indicate the approximate location of wells, onsite sewage treatment and disposal systems, surface water bodies and other pertinent facilities or features on contiguous or adjacent property. If the features are within 75 feet of the applicant lot, the estimated distance to the feature must be shown but need not be drawn to scale.**
☐ 3. If the county health department will not be performing the site evaluation, the applicant or authorized agent shall be responsible for the measurements to all features, including the pertinent features within 75 feet of the applicant lot. **The location of any public drinking water well, as defined in paragraph 64E-6.002(44)(b), F.A.C., within 200 feet of the applicant's lot shall also be shown, with the distance indicated from the system to the well.**
☐ 4. If an individual lot is five acres or greater, the applicant may draw a minimum one acre parcel to scale showing all required features, or the minimum size drawing necessary to properly exhibit all required features, whichever is larger. The applicant must also show the location of that one acre or larger parcel inside the total site ownership. *To scale parcel must be large enough to provide sufficient authorized flow.*
☐ 5. All information that is necessary to determine the total sewage flow and proper setbacks on the site ownership shall be submitted with the application. The applicant lot shall be clearly identified. **A copy of the legal description or survey must accompany the application for confirmation of property dimensions only.**

**FOR REPAIR APPLICATIONS:** A site plan (*NOT REQUIRED TO BE DRAWN TO SCALE)* showing:
☐ property dimensions
☐ the existing and proposed system configuration and location on the property
☐ the building location
☐ potable and non-potable water lines, within the existing and proposed drainfield repair area
☐ the general slope of the property
☐ property lines and easements
☐ any obstructed areas
☐ any private well *show private potable wells if within 100 feet of system, non-potable within 75 feet*
☐ any public wells *show if within 200 feet of system*
☐ any surface water bodies and stormwater systems *show if within 100 feet of system. Requires a surveyor to set the Mean High Water Line boundary for tidally influenced surface water bodies. Requires a surveyor or department staff to set the Mean Annual Flood Line for permanent non-tidal surface water bodies.*
☐ The existing drainfield type shall be described. For ex., mineral aggregate, non-mineral aggregate, chambers, or other.
☐ **Any unusual site conditions which may influence the system design or function** such as sloping property, drainage structures such as roof drains or curtain drains, and any obstructions such as patios, decks, swimming pools or parking areas.

**FOR ALL SITE PLANS (IF APPLICABLE)**
☐ A Coastal Construction Control Line Permit or an exemption notice from the Department of Environmental Protection if any component of the onsite sewage treatment and disposal system or the shoulders or slopes of the system mound will be seaward of the Coastal Construction Control Line, established under Section 161.053, F.S. Should the location of the proposed onsite system relative to the control line not be able to be definitively determined based on the site plan and the online products available on the DEP website, the applicant shall provide a survey prepared by a certified professional surveyor and mapper showing the location of the control line on the subject property.
☐ All plans and forms submitted by a licensed engineer shall be dated, signed and sealed.
☐ The evaluator shall document the **locations of all soil profiles** on the site plan.
☐ The site plan shall be **signed and dated by the applicant/agent**. Check appropriate box to indicate whether the signatory was the applicant or the authorized agent.

FLORIDA DEPARTMENT OF HEALTH

Jeb Bush
Governor

M. Rony François, M.D., M.S.P.H., Ph.D.
Secretary

**INTEROFFICE MEMORANDUM**

**INFORMATION**
HSES 06-005

**DATE:** June 20, 2006

**TO:** County Health Department Directors/Administrators
ATTN: Environmental Health and Engineering Directors

**THROUGH:** Lisa Conti, D.V.M., M.P.H., Dipl. ACVPM, CEHP
Director, Division of Environmental Health

**FROM:** Gerald Briggs, Chief, Bureau of Onsite Sewage Programs

**SUBJECT:** Application of the Four Lots Per Acre Provision of 381.0065(4)(b), FS

**INFORMATION ONLY**

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This memo serves to clarify the interpretation and application of s. 381.0065(4)(b), Florida Statutes, regarding the appropriate methodology to use when determining if a subdivision meets the four lots per acre requirements of the statute. The relevant portion of Section 381.0065(4)(b) states that "Subdivisions and lots using a public water system as defined in s. 403.852 may use onsite sewage treatment and disposal systems, provided there are no more than four lots per acre..."

The water systems in question are DEP-regulated or delegated water systems regulated under S. 403, FS. The DOH-regulated systems (private and limited-use) require a half acre under s. 381.0065(4)(a), FS. The four lots per acre provision is tested by taking a reasonable group of four adjacent lots (four in a row on the same side of the street or four that sit in a two by two matrix either back to back or facing the street) and summing their cumulative areas. Remember per 64E-6.005(7)(b) to add the pro-rata portion of the adjacent right of way and subtract any prepared roadbeds, paved areas, and surface water. If the accumulated area of the four lots is less than a whole acre, the subdivision violates the four lots per acre provision and no onsite sewage treatment and disposal system permit may be issued for any lot in the subdivision. You must choose the group of the four smallest lots in the subdivision to do the test. If your county has invited you to participate in the subdivision review process, you would make this determination at that time. If you are not invited to participate in the subdivision review then you will do the review when you receive the first application for an onsite sewage treatment and disposal system permit in the subdivision. At that time you would need to see the entire subdivision plat and make the determination for the entire subdivision. As the determination

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applies to the entire subdivision, it would be a violation to develop any of the lots (large or small) while the subdivision contains small lots that did not meet the statute

Another consideration to make relates to property that surrounds the subdivision Surrounding subdivisions and parcels are not part of the evaluation except in the next specific case

If a lot or parcel that is being subdivided is part of a larger subdivision and the original lot or parcel was required to be its original size in order to meet the lot density requirements for the surrounding subdivision, then the lot or parcel cannot be divided if the division violates the lot density requirements applicable to the surrounding subdivision If the lot or parcel size is not relevant to the surrounding subdivision, then the lot or parcel is a subdivision unto itself and the splitting needs to be tested similarly to the first paragraph If the subdivision being created will consist of only two lots, the original lot or parcel needs to contain at least one-half acre in order for the two new lots to meet the four lots per acre provision. If the original lot or parcel is being split into three lots, it needs to contain at least three-quarters of an acre in order for the three new lots to meet the four lots per acre provision

Remember that no individual lot can be assessed as meeting the four lots per acre provision of the statute. An application for an onsite sewage permit on a lot that has 0.26 acres cannot be assessed for compliance unless the entire subdivision has already been found to be in compliance Likewise, an application on a 0 20 acre lot cannot be denied without assessing the entire subdivision in which the lot is located

Please provide a copy of this memorandum to all certified inspectors, professional engineers, licensed septic tank contractors and plumbers performing services in your county If you have any questions on the matter, please contact Dale Holcomb or any member of the onsite staff at 850-245-4070 in Tallahassee or 407-317-7325 or 7327 in Orlando

# CLASSROOM EXERCISE #1: NEW 10_1010_N

**Name:**_____ **Date:** _____

| **Refer to the attachments to answer the following questions.** | |
|---|---|
| **Question** | **Answer** |
| 1. What is the size of the lot in **square feet?** | |
| 2. What is the size of the lot in **acres**? | |
| 3. What is the net usable area of the lot in **acres**? | |
| 4. What is the **minimum setback** requirement to the surface water body across the road? | |
| 5. What is the **minimum setback** requirement for the private potable well? | |
| 6. What is the estimated **sewage flow** for the proposed residence? | |
| 7. What is the **authorized sewage flow** for the lot? | |

**STATE OF FLORIDA**
**DEPARTMENT OF HEALTH**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM**
**APPLICATION FOR CONSTRUCTION PERMIT**

PERMIT NO. 10-1010-N
DATE PAID: 7/12/2010
FEE PAID:
RECEIPT #:

APPLICATION FOR:
[ x] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Orville Stern

AGENT: NA TELEPHONE: 407-111-1111

MAILING ADDRESS: PO BOX 1244, Orlando, FL 32801

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

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PROPERTY INFORMATION

LOT: 10 BLOCK: NA SUBDIVISION: Sandy Hill PLATTED: 3/2/71

PROPERTY ID #: 2930310000585858 ZONING: R I/M OR EQUIVALENT: [ Y / N ]

PROPERTY SIZE: _____ ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / N ] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 3215 Hills Lane

DIRECTIONS TO PROPERTY: Go east on I-4, take left on HWY 50 and turn right on Hills in 2 miles.

BUILDING INFORMATION [ x] RESIDENTIAL [ ] COMMERCIAL

| Unit No | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 3 | 1900 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

[ ] Floor/Equipment Drains [ ] Other (Specify)

SIGNATURE: Orville Stern DATE: 7/12/2010

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

**STATE OF FLORIDA**
**DEPARTMENT OF HEALTH**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM**
**SITE EVALUATION AND SYSTEM SPECIFICATIONS**

PERMIT #. 10-1010-N

Classroom Exercise #1

APPLICANT: Orville Stern AGENT: NA

LOT: 10 BLOCK: NA SUBDIVISION: Sandy Hill

PROPERTY ID #: 29-30-31 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTEMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINNEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [x] YES [ ] NO NET USABLE AREA AVAILABLE: _____ ACRES
TOTAL ESTIMATED SEWAGE FLOW: _____ GALLONS PER DAY [RESIDENCES-TABLE 1/OTHER-TABLE2]
AUTHORIZED SEWAGE FLOW: _____ GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 1875 SQFT UNOBSTRUCTED AREA REQUIRED: 750 SQFT

BENCHMARK/REFERENCE POINT LOCATION: disc on CL of RD
ELEVATION OF PROPOSED SYSTEM SITE IS 6 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: NA FT DITCHES/SWALES: NA FT NORMALLY WET? [ ] YES [ ] NO
WELLS: PUBLIC: NA FT LIMITED USE: NA FT PRIVATE: 85 FT NON-POTABLE: NA FT
BUILDING FOUNDATIONS: 5 FT PROPERTY LINES: 7 FT POTABLE WATER LINES: 80 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [x] NO 10 YEAR FLOODING? [ ] YES [x] NO
10 YEAR FLOOD ELEVATION FOR SITE: NA FT MSL/NGVD SITE ELEVATION: NA FT MSL/NGVD

SOIL PROFILE INFORMATION SITE 1

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10YR 3/2 | FS | 0 TO 5 |
| 10YR 5/6 | FS | 5 TO 31 |
| 10YR 6/8 | FS | 31 TO 73 |
| 10YR 7/6 | FS | 73 TO 80 |
| | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: Candler

SOIL PROFILE INFORMATION SITE 2

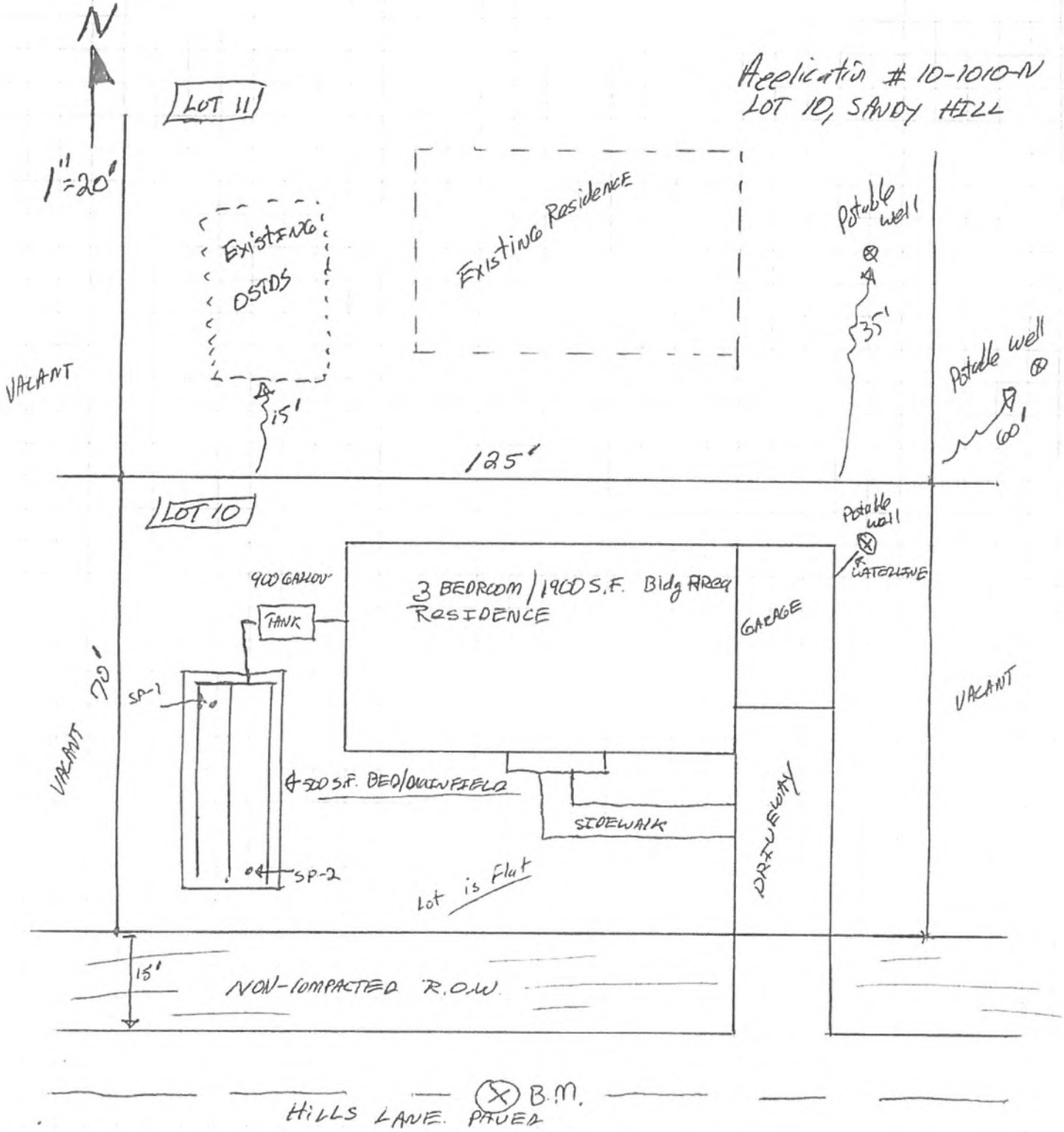
| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10YR 3/2 | FS | 0 TO 4 |
| 10YR 5/6 | FS | 4 TO 30 |
| 10YR 6/8 | FS | 30 TO 71 |
| 10YR 7/6 | FS | 71 TO 80 |
| | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: Candler

OBSERVED WATER TABLE: 72 INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE: [PERCHED / APPARENT]
ESTIMATED WET SEASON WATER TABLE ELEVATION: 72+ INCHES [ABOVE / BELOW] EXISTING GRADE
HIGH WATER TABLE VEGETATION: [ ] YES [x] NO MOTTLING: [ ] YES [ ] NO DEPTH: _____ INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: FS/0.6 DEPTH OF EXCAVATION: NA INCHES
DRAINFIELD CONFIGURATION: [] TRENCH [x] BED [ ] OTHER (SPECIFY) _____
REMARKS/ADDITIONAL CRITERIA:
SP #1 is 6" ABM, SP #2 is 6" ABM. No WSWT indicators within 72inches

SITE EVALUATED BY: Carroll Sweet ESI DATE: 7/12/2010




Approved X Not Approved
SUNSHINE CHD
Date: 7/12/2010
Cancel/wet EH

CONSERVATION / WETLANDS AREA

SUBMITTED By: Orville Stem 7/12/2010

NOTE: There are no wells surface water bodies, OSTDS, or any other pertinent features within 75' of the property line except what is shown.

# CLASSROOM EXERCISE # 2:
## (complete during the class presentation)

**Name:**_____ **Date:** _____

| **Refer to the attachments to answer the following questions.** | |
|---|---|
| **Question** | **Answer** |
| 1. Has the lot size been confirmed? | |
| 2. Does this lot meet lot size requirements? | |
| 3. What are the property dimensions of the lot? | |
| 4. What is the total square footage of the lot? And acres? | |
| 5. What is the total square footage of permissible rights of ways and easements? | |
| 6. Are there surface water bodies present? If so then what is the total area excluded from the net usable area? | |
| 7. What is the net usable area of the lot in **acres**? | |
| 8. What is the **estimated sewage flow** for the residence? | |
| 9. What is the **sizing criteria** the **estimated sewage flow** is based on? | |
| 10. What is the **authorized sewage flow** for the lot? | |

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

APP DOC # A
PERMIT #: 2
DATE PAID 05/28/2010
FEE PAID: 0
RECEIPT #: 59-PID-127177

APPLICATION FOR:

[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: Mark Ritter

AGENT: _____ TELEPHONE: _____

MAILING ADDRESS: 623 Yorkshire Dr Oviedo, FL 32765

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

LOT: 132 BLOCK:

SUBDIVISION: Bentley Woods PLATTED: 02/15/1989

PROPERTY ID #: 09-21-31-514-0000-1320 ZONING: R1 I/M OR EQUIVALENT: [ Y / N ]

PROPERTY SIZE: 0.23 ACRES WATER SUPPLY: [ ]PRIVATE [X]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / N ] DISTANCE TO SEWER: _____ FT

PROPERTY ADDRESS: 623 Yorkshire Dr Oviedo, FL 32765

DIRECTIONS TO PROPERTY:

right on red bug lake left on aloma, left onpine st right on bentley left on wellington
right on rochester left on yorkshire

BUILDING INFORMATION: [X] RESIDENTIAL [ ] COMMERCIAL

| Type of Establishment | No. of Bedrooms | Building Area Ft | # Persons Served | Total Design Flow For This Unit |
|---|---|---|---|---|
| | 4 | 2461 | 4 | 400 |

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Mark Ritter DATE: 05/28/2010

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC



v 1.0.0 APP67231 EID1146017

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATION

APPLICATION # AP:
PERMIT # 59-S2-1
DOCUMENT # SE8

APPLICANT: Mark Ritter

CONTRACTOR / AGENT:

LOT: 132 BLOCK:

SUBDIVISION: Bentley Woods ID#: 09-21-31-514-0000-1320

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE, OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL BACK PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [X]YES [ ]NO NET USABLE AREA AVAILABLE: _____ ACRES

TOTAL ESTIMATED SEWAGE FLOW: 400 GALLONS PER DAY [ RESIDENCES-TABLE1 / OTHER-TABLE 2 ]

AUTHORIZED SEWAGE FLOW: _____ GALLONS PER DAY [ 1500 GPD/ACRE OR 2500 GPD/ACRE ]

UNOBSTRUCTED AREA AVAILABLE: _____ SQFT UNOBSTRUCTED AREA REQUIRED: _____ SQFT

BENCHMARK/REFERENCE POINT LOCATION: orange dot c/l of road

ELEVATION OF PROPOSED SYSTEM SITE 8.00 [ INCHES / FT ] [ ABOVE / BELOW ] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES

SURFACE WATER: na FT DITCHES/SWALES: na FT NORMALLY WET: [ ]YES [X]NO

WELLS: PUBLIC: na FT LIMITED USE: na FT PRIVATE: na FT NON-POTABLE: 26 FT

BUILDING FOUNDATIONS: 5 FT PROPERTY LINES: 5 FT POTABLE WATER LINES: 25 FT

SITE SUBJECT TO FREQUENT FLOODING? [ ]YES [X]NO 10 YEAR FLOODING? [ ]YES [X]NO

10 YEAR FLOOD ELEVATION FOR SITE: _____ FT [ MSL / NGVD ] SITE ELEVATION: _____ FT [ MSL / NGVD

SOIL PROFILE INFORMATION SITE 1

USDA SOIL SERIES: Unkown

| Munsell #/Color | Texture | Depth |
|---|---|---|
| 10YR 7/8 | Fill - Fine Sand | 0 To 60 |
| 10YR 4/3 | Fine Sand | 60 To 72 |

SOIL PROFILE INFORMATION SITE 2

USDA SOIL SERIES: Unkown

| Munsell #/Color | Texture | Depth |
|---|---|---|
| 10YR 7/8 | Fill - Fine Sand | 0 To 32 |
| 10YR 7/3 | Fine Sand | 32 To 48 |
| 7.5YR 5/8 | CMN/PRM RF | 44 To 44 |
| 10YR 4/3 | Fine Sand | 48 To 72 |

OBSERVED WATER TABLE: 60.00 INCHES [ ABOVE / BELOW ] EXISTING GRADE TYPE: [ PERCHED / APPARENT ]

ESTIMATED WET SEASON WATER TABLE ELEVATION: 44 INCHES [ ABOVE / BELOW ] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ]YES [X]NO MOTTLING: [X]YES [ ]NO DEPTH: 44.00 INCHES

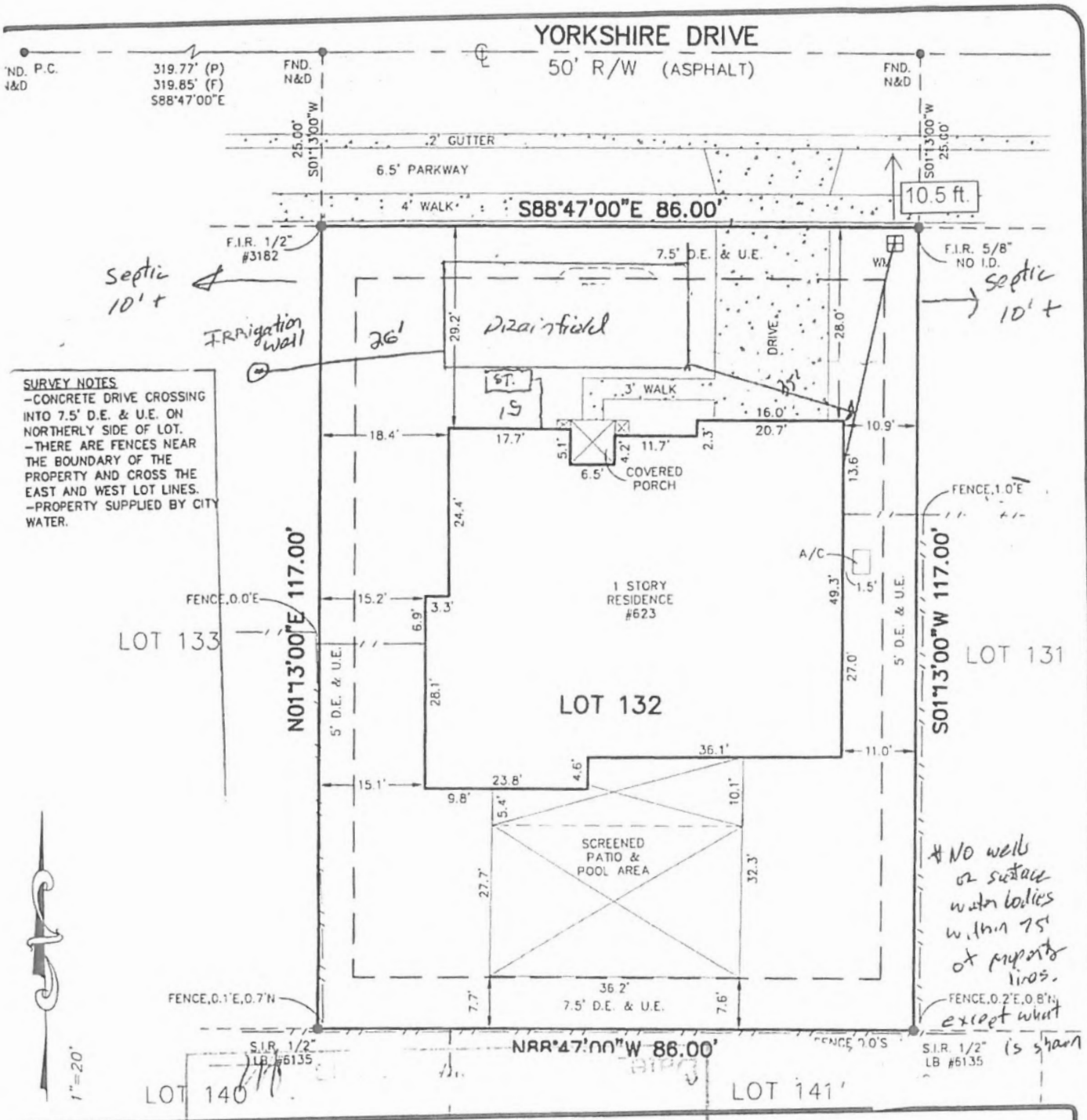
SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: Fine Sand/0.60 DEPTH OF EXCAVATION: 0 INCHES

DRAINFIELD CONFIGURATION: [ ] TRENCH [X] BED [ ] OTHER (SPECIFY) _____

REMARKS/ADDITIONAL CRITERIA

Rp=67", Sp1=58", Sp2=69", Top of mound=36", Existing size of drainfield=15'x35'=525Existing elevation of drainfield=1" bg, Permit based on inspectors measurement of existing drainfield size and elevation, Soil had sufficient structure that profiles could be advanced through water to 72", Fill color/texture=10yr7/8,m4/3, 4/1,3/4, 6/1

SITE EVALUATED BY: _____ DATE: 06/02/2010




PAGE 2 OF 2 PAGES

# BOUNDARY SURVEY

LB #6135

CLYDE O McNEAL CERTIFICATE No 2683 STATE OF FLORIDA PROFESSIONAL SURVEYOR & MAPPER

**SURVEYORS CERTIFICATE**

*I HEREBY CERTIFY THAT THIS BOUNDARY SURVEY IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PREPARED UNDER MY DIRECTION. NOT VALID WITHOUT AN AUTHENTICATED ELECTRONIC SIGNATURE AND AUTHENTICATED ELECTRONIC SEAL, OR A RAISED EMBOSSED SEAL AND SIGNATURE*

Clyde McNeal

Digitally signed by Clyde McNeal
DN: CN = Clyde McNeal, C = US, O = Target Surveying, Inc.
Date: 2010.03.09 09:58:14 -05'00'

(SIGNED)

CLYDE O. McNEAL, PROFESSIONAL SURVEYOR AND MAPPER #2683


TARGET SURVEYING, INC.

SERVING ALL FLORIDA COUNTIES

5601 CORPORATE WAY SUITE 210
WEST PALM BEACH, FL 33407
PHONE (561) 640-4800
FACSIMILE (561) 640-0576
STATEWIDE PHONE (800) 226-4807
STATEWIDE FACSIMILE (800) 741-0576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RECEIVED
JUN 11 2010
ENVIRONMENTAL HEALTH

Lot 132, BENTLEY WOODS according to the Plat thereof as recorded in Plat Book 41, Pages 79-82, of the Public Records of County.

Community Number: 120293 Panel: 0190 Suffix: F Flood Zone: X Field Work: 3/8/2010

Certified To:
JODI L. WORRALL, PRINCIPAL TITLE SERVICES, LLC; WESTCOR LAND TITLE INSURANCE CO.; HOME1ST LENDING, LLC, its successors and/or assigns

Property Address:
1 YORKSHIRE DRIVE
OVIEDO, FL 32765

Survey Number: 157527

LEGEND:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A/C | AIR CONDITIONER | XX.XX | EXISTING ELEVATION | L.M.E. | LAKE MAINTENANCE EASEMENT | R/W | RIGHT OF WAY |
| B.R. | BEARING REFERENCE | F.F. | FINISHED FLOOR | O.R. | OFFICIAL RECORDS | S.I.R. | SET IRON ROD & CAP |
| B.M. | BENCH MARK | F.I.P. | FOUND IRON PIPE | O.R.B. | OFFICIAL RECORDS BOOK | P.P. | POWER POLE |
| ℄ | CENTERLINE | FD. | FOUND | U.E. | UTILITY EASEMENT | T.O.B. | TOP OF BANK |
| (C) | CALCULATED | ⓦ | WELL | P.C.P. | PERMANENT CONTROL POINT | W.M. | WATER METER |
| CATV | CABLE RISER | W.C. | WITNESS CORNER | P.R.M. | PERMANENT REFERENCE MONUMENT | PG. | PAGE |
| C.B. | CATCH BASIN | F.P.K. | FOUND PARKER-KALON NAIL | T.B.M. | TEMPORARY BENCH MARK | (P) | PLAT |
| D.H. | DRILL HOLE | F.C.M. | FOUND CONCRETE MONUMENT | TEL. | TELEPHONE FACILITIES | P.B. | PLAT BOOK |
| D.E. | DRAINAGE EASEMENT | F.I.R. | FOUND IRON ROD | P.O.B. | POINT OF BEGINNING | U.P. | UTILITY POLE |
| D/W | DRIVEWAY | L | LENGTH | P.O.C. | POINT OF COMMENCEMENT | (M) | FIELD MEASURED |
| Δ | CENTRAL ANGLE/DELTA | L.A.E. | LIMITED ACCESS EASEMENT | P.C.C. | POINT OF COMPOUND CURVATURE | A.E. | ANCHOR EASEMENT |
| C.M. | CONCRETE MONUMENT | M.E. | MAINTENANCE EASEMENT | P.C. | POINT OF CURVATURE | O.H.L. | OVERHEAD UTILITY LINES |
| D.B. | DEED BOOK | M.H. | MANHOLE | P.R.C. | POINT OF REVERSE CURVATURE | ℄ | PROPERTY LINE |
| D. | DESCRIPTION OR DEED | F.N. | FOUND NAIL | P.T. | POINT OF TANGENCY | CH | CHORD |
| ESMT | EASEMENT | N&D | NAIL & DISC | ● | PROPERTY CORNER | | COVERED AREA |
| E.O.W. | EDGE OF WATER | N.R. | NON RADIAL | R.O.E. | ROOF OVERHANG EASEMENT | | CONCRETE |
| | | N.T.S. | NOT TO SCALE | R. | RADIUS (RADIAL) | -/-/-/- | WOOD FENCE |
| | | | | | | -X-X- | METAL FENCE |

PAGE 1 OF 2 PAGES

GENERAL NOTES:

# LEGAL DESCRIPTION AND CERTIFICATION

1) LEGAL DESCRIPTION PROVIDED BY OTHERS.
2) THE LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS OR OTHER RECORDED ENCUMBRANCES NOT SHOWN ON THE PLAT.
3) UNDERGROUND PORTIONS OF FOOTINGS, FOUNDATIONS OR OTHER IMPROVEMENTS WERE NOT LOCATED.
4) WALL TIES ARE TO THE FACE OF THE WALL AND ARE NOT TO BE USED TO RECONSTRUCT BOUNDARY LINES.
5) ONLY VISIBLE ENCROACHMENTS LOCATED.
6) DIMENSIONS SHOWN ARE PLAT AND MEASURED UNLESS OTHERWISE SHOWN.
7) FENCE OWNERSHIP NOT DETERMINED.
8) ELEVATIONS INDICATED HEREON ARE IN FEET AND DECIMALS REFRENCED TO N.G.V.D. 1929
9) IN SOME INSTANCES, GRAPHIC REPRESENTATIONS HAVE BEEN EXAGGERATED TO MORE CLEARY ILLUSTRATE RELATIONSHIPS BETWEEN PHYSICAL IMPROVEMENTS AND/OR LOT LINES. IN ALL CASES, DIMENSIONS SHALL CONTROL THE LOCATION OF THE IMPROVEMENTS OVER SCALED POSITIONS.

LB #6135
TARGET SURVEYING, INC.
SERVING MOST FLORIDA COUNTIES
5801 CORPORATE WAY SUITE 210
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**TABLE I**
**For System Design**
**ESTIMATED SEWAGE FLOWS**

| TYPE OF ESTABLISHMENT | GALLONS PER DAY |
|---|---|
| RESIDENTIAL: | |
| Residences | |
| (a) Single or multiple family per dwelling Unit | |
| 1 Bedroom with 750 sq. ft. or less of building area | 100 |
| 2 Bedrooms with 751-1200 sq. ft. of building area | 200 |
| 3 Bedrooms with 1201-2250 sq. ft. of building area | 300 |
| 4 Bedrooms with 2251-3300 sq. ft. of building area | 400 |
| For each additional bedroom or each additional 750 square feet of building area or fraction thereof in a dwelling unit, system sizing shall be increased by 60 gallons per dwelling unit. | |
| (b) Other per occupant | 50 |