



Charlie Crist  
Governor

Ana M. Viamonte Ros, M.D., M.P.H.  
State Surgeon General

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## INTEROFFICE MEMORANDUM

**INFORMATION  
HSES 09-008**

**DATE:** August 24, 2009

**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:** Site Plan Requirements

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The onsite sewage system rule has required to-scale site plans since 1980 showing the "location" of the onsite system. In 1992, the language was changed to "the onsite sewage disposal system components and their location on the property." Program evaluation standards from this period and onward have required that the tank and drainfield be drawn to scale. The specific location and configuration of the system is required because our permitting is dependent on that specific location and configuration in regard to setbacks, sizing (soil texture), elevation (wet season water table), and unobstructed area (a bed requires more area than a trench). This is not a new standard nor a new interpretation. This office has consistently said that changes in the location or configuration of a system are required to be reviewed and approved by the CHDs before installation of the system and that an amendment to the site plan is required. While we are open to a discussion of a rule change to this standard, CHDs must enforce the current rule requirement. Attached is an approach developed and in use by Bill Sirmans in Santa Rosa County.

OSTDS field staff have asked about the margin of error allowed in to-scale plans. Site plans with scales of 10 to 30 feet to 1 inch must be accurate to less than ½ foot. For scales of 40 to 60, an error rate of no more than 2 feet is acceptable. Accurate measurements are critical, particularly when we are addressing lots that can only meet the minimum setbacks. When in doubt about whether a site plan is to scale, ask several staff to check the measurement. They should all agree within the above standards, For example, using a 40 feet to inch scale, if one staff measures the distance as 50 feet, the other staff should read a measurement between 48 and 52. The site plan must clearly document that setbacks and other requirements are met. The accumulated required dimensions must be accurate. If a lot is 100 feet wide, the known dimensions of setback, house, system, etc. cannot exceed 100 feet.

Please forward this memorandum to septic tank contractors, plumbers, engineers and certified EH professionals in your area. Questions on this memorandum should be addressed to your regional program consultant in Tallahassee or Orlando.

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**Environmental Health is Core Public Health at your Service!**  
**Division of Environmental Health, Bureau of Onsite Sewage Programs**  
4052 Bald Cypress Way, Bin #A08, Tallahassee, Florida 32399-1713  
[www.MyFloridaEH.com](http://www.MyFloridaEH.com)

# OSTDS Permit Application Suggestion

Chapter 64E-6.004(3)(a), Florida Administrative Code, Standards For Onsite-Sewage Treatment and Disposal Systems, requires that a plan or plat of the lot, property, or total site ownership drawn to scale showing boundaries with dimensions, locations of any existing or proposed residences or buildings, swimming pools, recorded easements, the onsite-sewage treatment and disposal system (OSTDS) components and their location on the property, the slope of the property and any existing or proposed wells, waterlines, drainage features, filled areas, obstructed areas, and surface water bodies be submitted with the application for the permit to construct an OSTDS.

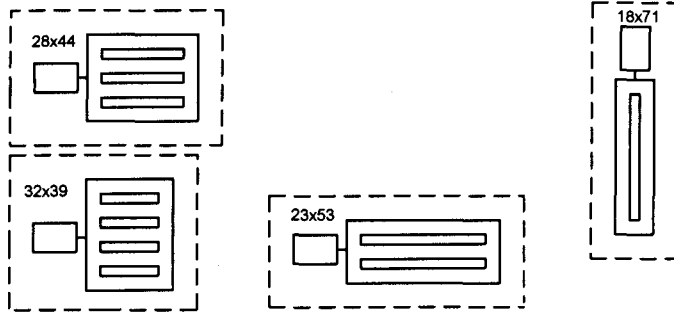
A problem occurs very often because the applicant does not know the specifications of the OSTDS when the application and plot plan are submitted. Each OSTDS is site specific and the system specifications cannot be determined until an OSTDS site evaluation has been performed. The plot plan must then be returned to the applicant in order for them to draw the OSTDS components to scale or DOH employees must draw the components to scale on the plot plan. When the plot plan is returned to the applicant additional DOH personnel time is required to explain the process and OSTDS specifications to help the applicant with the process of drawing the OSTDS components to scale on their plot plan. No client is pleased with having to do the additional work or in the delay in time to issue the OSTDS construction permit while he is adding the OSTDS components to the plot plan.

In our office DOH personnel generally draw the OSTDS components on the plot plan. It causes less delay in the time to issue the construction permit and helps to improve our client relationships. It takes me about 34 minutes to draw the components on the client plot plan and I have over 25 years experience in the OSTDS program.

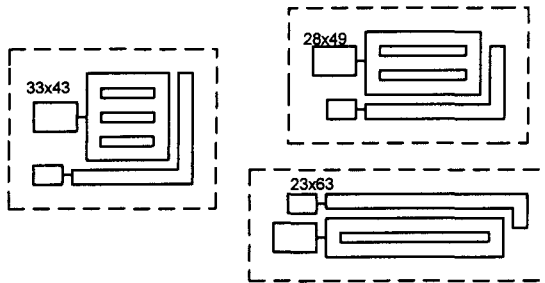
I have developed a series of scale drawings of OSTDS components for residential and commercial systems. These drawings illustrate systems that cover all aspects of the site-specific requirements for the OSTDS. OSTDS size is determined by the flow rate of the structure, soil texture, the wet seasonal high water table elevation and the amount of slope used in a system-requiring fill. The footprints for these OSTDS have been calculated in several different configurations to allow for the variety in lot sizes and layout. Those footprints that include fill have a one foot buffer included to allow for the diversion of run-off. Examples of these drawings are attached.

My suggestion is that DOH personnel use these drawings to indicate the footprint of the OSTDS components on the plot plan and not draw each component to scale on the clients plot plan. The footprint would be drawn to whatever scale the plot plan is prepared. A notation to see the construction detail would be written in the footprint area, and a copy of the scale drawing with the appropriate OSTDS configuration marked would be attached to the OSTDS construction permit application.

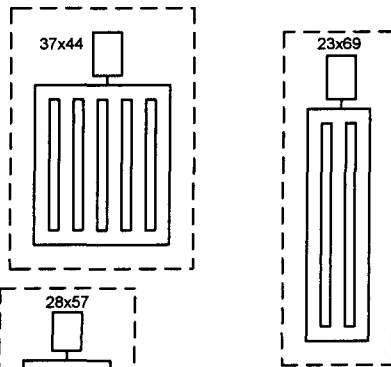
# 1 inch to 40 feet scale drawings of .65 LR OSTDS with gravel drainfield



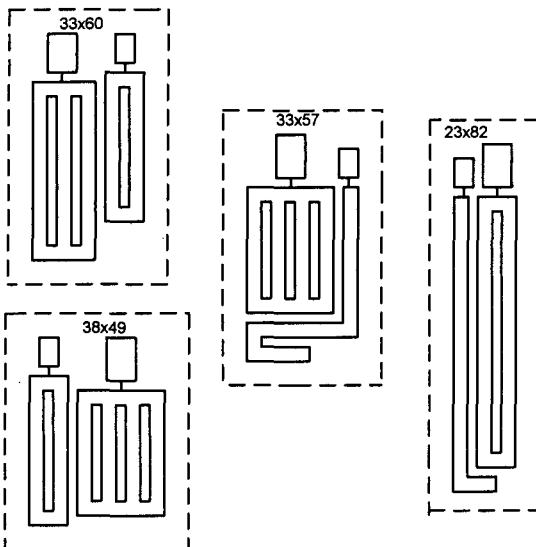
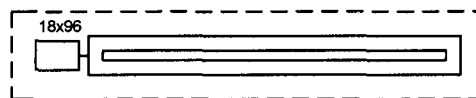
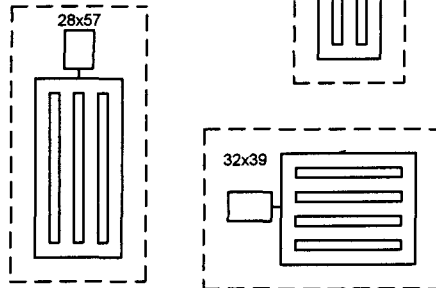
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	Footprint		Footprint		Footprint		Footprint	
	Subsurface 28x44		32x39		18x71		23x53	
Fill	2:1	5:1	2:1	5:1	2:1	5:1	2:1	5:1
6"	30x45	33x47	34x40	37x42	20x72	23x74	25x54	28x56
12"	32x46	38x49	36x41	42x44	22x73	28x76	27x55	33x58
15"	33x47	41x51	37x42	45x46	23x74	31x78	28x56	36x60
18"	34x47	43x52	38x42	47x47	24x74	33x79	29x56	38x61
24"	36x48	48x54	40x43	52x49	26x75	38x81	31x57	43x63
30"	38x49	53x57	42x44	57x51	28x76	43x83	33x58	48x65
36"	40x51	58x59	44x45	62x52	30x78	48x84	35x59	53x66
	3:1	5:1	3:1	5:1	3:1	5:1	3:1	5:1
42"	49x55	63x62	53x50	67x57	39x82	53x89	44x64	58x71
45"	51x56	67x63	54x51	71x58	40x82	57x90	45x65	62x72



	900-231	225-150	900-231	225-150	900-231	225-150
	Footprint		Footprint		Footprint	
	Subsurface 23x63		28x49		33x43	
Fill	2:1	5:1	2:1	5:1	2:1	5:1
6"	25x64	28x66	30x50	33x52	35x44	38x46
12"	27x65	33x68	32x51	38x54	37x45	43x48
15"	28x66	36x70	33x52	41x56	38x46	46x50
18"	29x66	38x71	34x52	43x57	39x46	48x51
24"	31x67	43x73	36x53	48x59	41x47	53x53
30"	33x68	48x76	38x54	53x62	43x48	58x55
36"	35x69	53x78	40x56	58x64	45x49	63x56
	3:1	5:1	3:1	5:1	3:1	5:1
42"	44x74	58x81	49x61	63x67	54x54	68x61
45"	46x75	61x82	51x62	66x68	55x55	72x62



	900-462		900-462		900-462		900-462		900-462	
	footprint		footprint		footprint		footprint		footprint	
	subsurface 18x96		23x69		28x57		32x49		37x44	
fill	2:1	3:1	2:1	5:1	2:1	5:1	2:1	5:1	2:1	5:1
6"	20x97	23x99	25x70	28x72	30x58	33x60	34x50	37x52	39x45	42x47
12"	22x98	28x101	27x71	33x74	32x59	38x62	36x51	42x54	41x46	47x49
15"	23x99	31x103	28x72	36x76	33x60	41x64	37x52	45x56	42x47	50x51
18"	24x99	33x104	29x72	38x77	34x60	43x65	38x52	47x57	43x47	52x52
24"	26x100	38x106	31x73	43x79	36x61	48x67	40x53	52x59	45x48	57x53
30"	28x101	43x108	33x74	48x82	38x62	53x70	42x54	57x62	47x49	62x56
36"	30x103	48x109	35x75	53x85	40x63	58x73	44x55	62x65	49x50	67x59
	3:1	5:1	3:1	5:1	3:1	5:1	3:1	5:1	3:1	5:1
42"	39x108	53x114	44x80	58x87	49x68	63x75	53x60	67x67	58x55	72x61
45"	40x109	56x115	45x81	61x88	50x69	66x77	54x61	70x69	59x56	75x63



	900-347	225-200	900-347	225-200	900-347	225-200	900-347	225-200
	footprint		footprint		footprint		footprint	
	subsurface 23x82		33x60		33x57		38x49	
fill	2:1	3:1	2:1	5:1	2:1	5:1	2:1	5:1
6"	25x83	28x85	34x61	37x63	34x58	37x60	40x50	43x52
12"	27x84	33x87	36x62	42x65	36x59	42x62	41x51	48x54
15"	28x86	36x89	37x63	45x67	37x60	45x64	43x52	51x56
18"	29x86	38x90	38x63	47x68	38x60	47x65	44x52	53x57
24"	31x87	43x92	40x64	52x70	40x61	52x67	46x53	58x59
30"	33x88	48x95	42x65	57x73	42x62	57x70	48x54	63x62
36"	35x89	53x97	44x66	62x75	44x63	62x72	50x55	68x70
	3:1	5:1	3:1	5:1	3:1	5:1	3:1	5:1
42"	44x94	58x99	53x71	67x78	53x68	67x75	59x60	73x72
45"	45x95	61x100	54x72	70x79	54x69	70x76	60x61	76x74

1 inch to 50 feet scale drawings of .35 LR OSTDS with gravel drainfield

900-572  
footprint

subsurface	18x115	21x82	28x66	33x56	38x51	42x45
fill	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6"	20x116 23x118	23x83 26x85	30x67 33x69	35x57 38x59	40x52 43x54	44x46 47x48
12"	22x117 28x120	25x84 31x87	32x68 38x71	37x58 43x61	42x53 48x56	46x47 52x50
15"	23x118 31x122	26x85 34x89	33x69 41x73	38x59 46x63	43x54 51x58	47x48 55x52
18"	24x118 33x123	27x85 36x90	34x69 43x74	39x59 48x64	44x54 53x59	48x48 57x53
24"	26x119 38x125	29x86 41x92	36x70 48x76	41x60 53x66	46x55 58x61	50x49 62x56
30"	28x120 43x128	31x87 46x95	38x71 53x79	43x61 58x69	48x56 63x64	52x50 67x59
36"	30x121 48x130	33x88 51x97	40x72 58x81	45x62 63x71	50x57 68x66	54x51 72x61
	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
42"	40x126 53x133	43x93 56x100	50x77 63x84	55x67 68x74	60x62 73x69	64x56 77x63
45"	41x127 56x134	44x94 59x101	51x78 66x85	56x68 71x75	61x63 76x70	65x57 80x64

900-425 225-150  
footprint

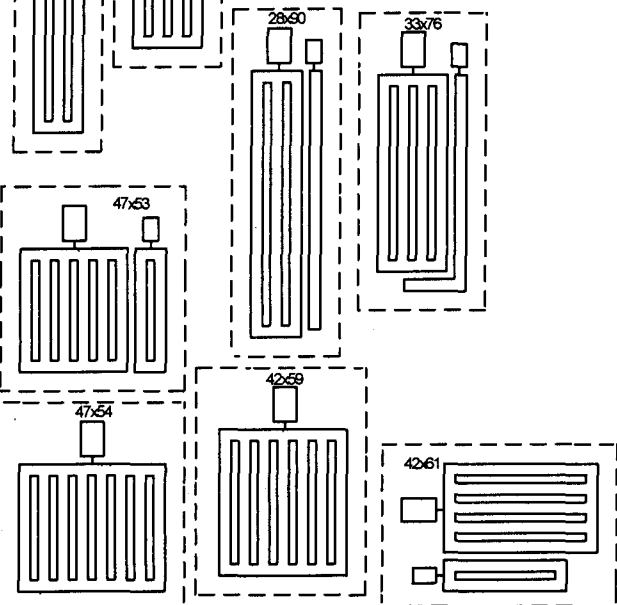
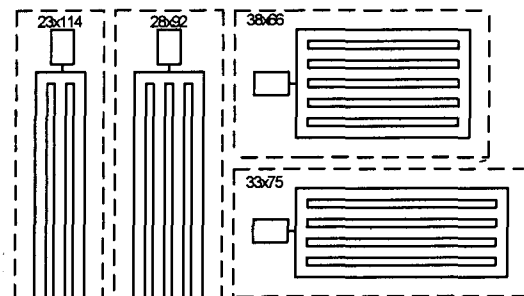
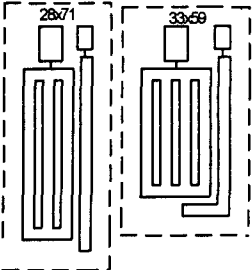
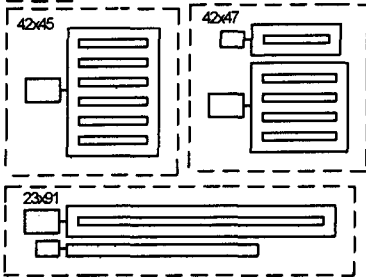
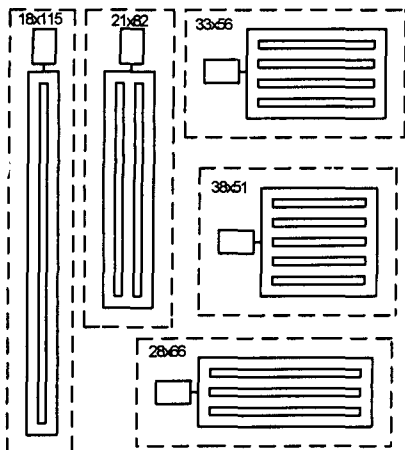
subsurface	23x91	28x71	33x59	42x47
fill	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6"	25x92 28x94	30x72 33x74	35x60 38x62	44x48 47x50
12"	27x93 33x96	32x73 38x76	37x61 43x64	46x49 52x52
15"	28x94 36x98	33x74 41x78	38x63 46x64	47x50 55x54
18"	29x94 38x99	34x74 43x79	39x63 48x65	48x50 57x55
24"	31x95 43x101	36x75 48x81	41x64 53x67	50x51 62x57
30"	33x96 48x104	38x76 53x84	43x65 58x70	52x52 67x60
36"	35x97 53x106	40x78 58x86	45x66 63x72	54x53 72x62
	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
42"	45x102 58x109	50x83 63x89	55x70 68x75	64x58 77x65
45"	46x103 61x110	51x84 66x90	56x71 71x76	65x59 80x66

900-857  
footprint

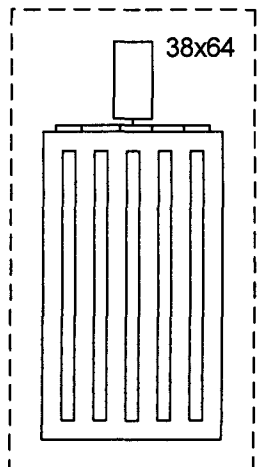
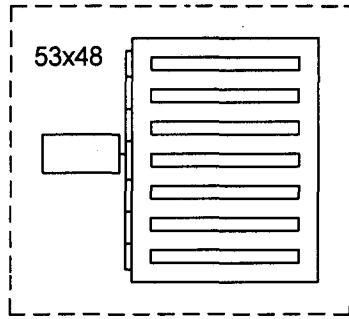
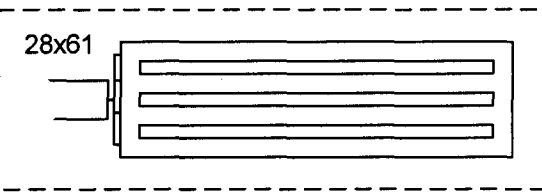
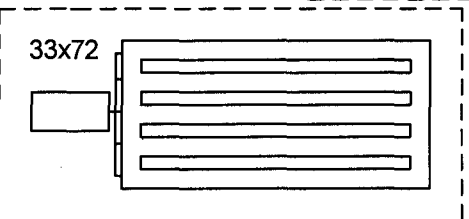
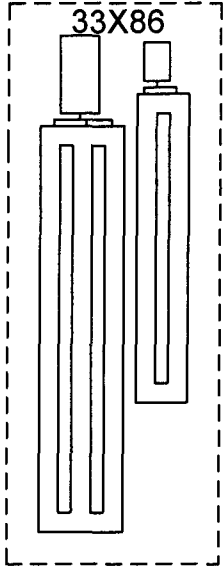
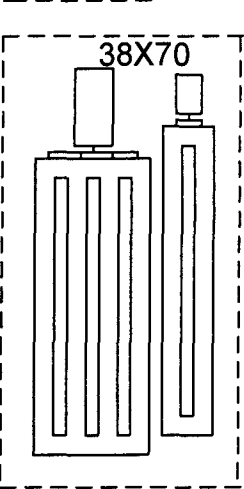
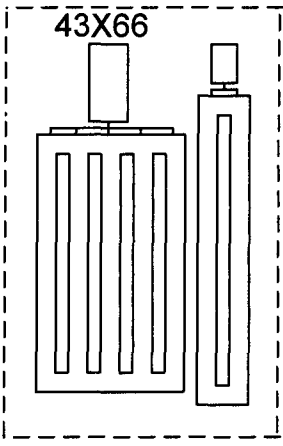
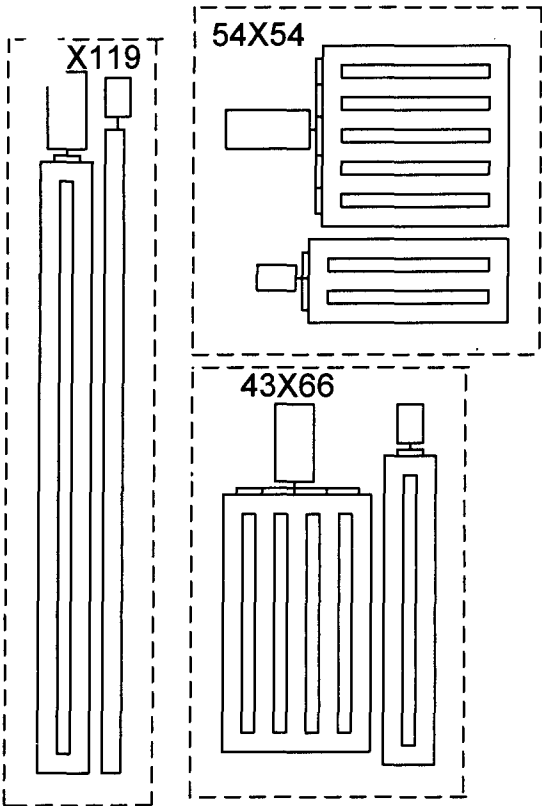
subsurface	23x114	28x92	33x75	38x66	42x59	47x54
fill	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6"	25x115 28x117	30x93 33x95	35x76 38x78	40x67 43x69	44x60 47x62	49x55 52x57
12"	27x116 33x119	32x94 38x97	37x77 43x80	42x68 48x71	46x61 52x64	51x56 57x59
15"	28x117 36x121	33x95 41x99	38x78 46x82	43x69 51x73	47x62 55x66	52x57 60x61
18"	29x117 38x122	34x95 43x100	38x78 48x83	44x69 53x74	48x62 57x67	53x57 62x62
24"	31x118 43x124	36x96 48x102	40x79 53x85	46x70 58x76	50x63 62x69	55x58 67x64
30"	33x119 48x126	38x97 53x105	42x80 58x88	48x71 63x79	52x64 67x72	57x59 72x67
36"	35x120 53x128	40x98 58x107	44x81 63x90	50x72 68x81	54x65 72x74	59x60 77x69
	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
42"	45x125 58x131	50x103 63x110	54x86 68x93	60x77 83x84	64x70 77x77	69x65 82x72
45"	46x126 61x132	51x104 66x111	55x87 71x94	61x78 86x85	65x71 80x78	70x66 85x73

900-643 225-200  
footprint

subsurface	28x90	33x76	42x61	47x53
fill	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6"	30x91 35x93	35x77 38x79	44x62 47x64	49x54 52x56
12"	32x92 40x95	37x78 43x81	46x63 52x66	51x55 57x58
15"	33x93 43x97	38x79 46x83	47x64 55x68	52x56 60x60
18"	34x93 45x98	39x79 48x84	48x64 57x69	53x56 62x61
24"	36x94 50x100	41x80 53x86	50x65 62x71	55x57 67x63
30"	38x95 45x103	43x81 58x88	52x66 67x74	57x58 72x66
36"	40x96 50x105	45x82 63x90	54x67 72x76	59x59 77x68
	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
42"	50x101 55x108	55x87 68x93	64x72 77x79	69x64 82x71
45"	51x102 58x108	56x88 71x94	65x73 80x80	70x65 85x72



# 1 inch to 30 feet scale drawing of .65 LR OSTDS with gravel drainfield



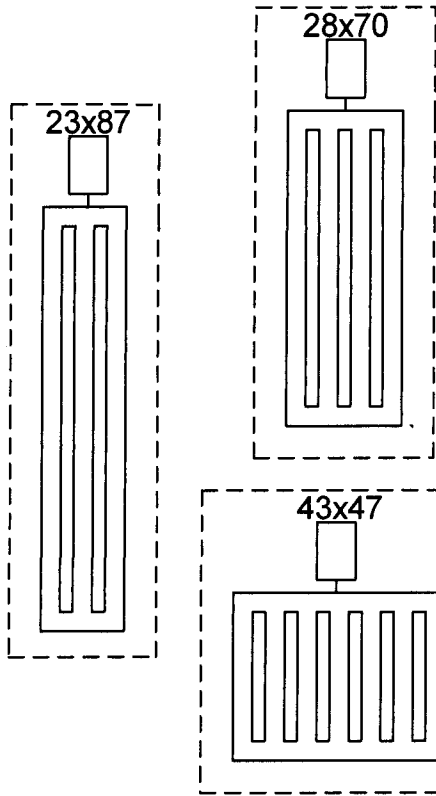
## 1200-577 225-300

footprint	footprint	footprint	footprint	footprint
subsurface 23X119	33x86	38x70	43x66	54x54
fill 2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6" 25x120 28x122	35x87 38x89	40x71 43x73	45x67 48x69	56x55 59x57
12" 27x121 33x124	37x88 43x91	42x72 48x75	47x68 53x71	58x56 64x59
15" 28x122 36x126	38x89 46x93	43x73 51x77	48x69 56x73	59x57 67x61
18" 29x122 38x127	39x89 48x94	44x73 53x78	49x69 58x74	60x57 69x62
24" 31x124 43x130	41x90 53x96	46x74 58x80	51x70 63x76	62x58 74x84
30" 33x125 48x133	43x91 58x99	48x75 63x83	53x71 68x79	64x59 79x87
36" 35x126 53x135	45x92 63x101	50x76 68x86	55x72 73x82	65x60 84x90
3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
42" 44x131 58x139	54x97 68x104	59x81 73x89	64x77 78x85	74x65 89x93
45" 46x132 61x140	56x98 71x105	61x82 76x90	66x78 79x86	75x66 90x94

## 1200-770

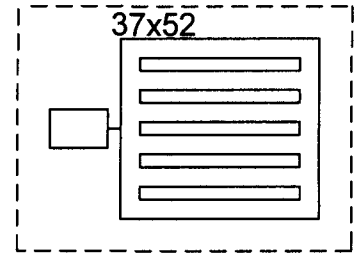
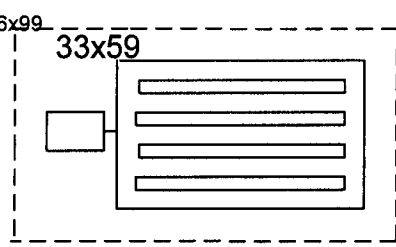
footprint	footprint	footprint	footprint	footprint
subsurface 23x107	28x85	33x72	38x64	48x53
fill 2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6" 25x108 28x110	30x86 33x88	35x73 38x75	40x65 43x67	50x54 53x56
12" 27x109 33x112	32x87 38x90	37x74 43x77	42x66 48x69	52x55 58x58
15" 28x110 36x114	33x88 41x92	38x75 46x78	43x67 51x71	53x57 61x60
18" 29x110 38x115	34x88 43x93	39x75 48x83	44x67 52x72	54x57 63x61
24" 31x112 43x118	36x90 48x96	41x77 53x86	46x68 62x75	56x58 68x63
30" 33x113 48x121	38x91 53x99	43x78 58x89	48x69 62x78	58x60 73x66
36" 35x114 53x123	40x92 58x101	45x79 63x91	50x70 67x80	60x61 78x68
3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
42" 44x119 58x127	49x97 63x105	54x84 68x95	59x75 72x82	69x66 83x71
45" 46x120 61x128	51x98 66x106	56x85 71x96	61x76 75x83	71x67 86x72

1 inch to 30 feet scale drawing of .65 LR OSTDS with gravel drainfield



1050-615	1050-615	1050-615	1050-615	1050-615
footprint	footprint	footprint	footprint	footprint
subsurface 23x87	33x59	28x70	38x52	43x47
fill 2:1 3:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6" 25x88 28x90	35x60 38x62	30x71 33x73	40x53 43x55	45x48 48x50
12" 27x89 33x92	37x61 43x64	32x72 38x75	42x54 48x57	47x49 53x52
15" 28x90 36x94	38x62 46x66	33x73 41x77	43x55 51x59	48x50 56x54
18" 29x90 38x95	39x62 47x67	34x73 42x78	44x55 52x60	49x50 57x55
24" 31x91 43x97	41x63 52x69	36x74 47x80	46x56 57x62	52x51 62x57
30" 33x92	43x64 57x72	38x75 52x83	48x57 62x65	54x52 67x60
48x100	45x65 62x74	40x76 57x85	50x58 67x67	56x53 72x62
36" 35x93	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
53x102	54x70 67x76	49x81 62x87	59x63 72x69	65x58 77x64
3:1 5:1	56x71 70x77	51x82 65x88	61x64 75x70	67x59 80x65

42" 44x98  
58x105  
45" 46x99  
61x106



1050-462 225-250

footprint	footprint	footprint	footprint	footprint
subsurface 23x101	28x80	33x70	38x61	48x49
fill 2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1	2:1 5:1
6" 25x102	30x81 33x83	35x71 38x73	40x62 43x64	50x50 53x52
28x104	32x82 38x85	37x72 43x75	42x63 48x66	52x51 58x54
12" 27x103	33x83 41x87	38x73 46x77	43x64 51x68	53x53 61x56
33x106	34x83 43x88	39x73 48x78	44x64 53x69	54x53 63x57
15" 28x104	36x84 48x90	41x74 53x80	46x65 58x71	56x54 68x59
36x108	38x85 53x93	43x75 58x83	48x66 63x74	58x56 73x62
18" 29x104	40x86 58x95	45x76 63x85	50x67 68x76	60x57 78x64
38x109	3:1 5:1	3:1 5:1	3:1 5:1	3:1 5:1
24" 31x105	49x91 63x98	54x81 68x88	59x72 73x79	69x62 83x67
43x111	51x92 66x99	56x82 71x89	61x73 76x80	71x63 86x68

