

Dearborn County Health Department

Residential OSS Plan Review

Property Owner Name _____

Property Address _____

Designer _____

Date Received _____

Plan Reviewer _____

Date of Review _____

Meets or Exceeds Minimum Requirements	Does Not Meet Minimum Requirements	Additional Information Requested	Not Applicable		Approval Constitutes Best Judgment for System Replacement
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General Plan Requirements

				Completed Application	
				Onsite Soil Evaluation	
				Onsite System Evaluation (replacement systems)	
				Property Lines	
				Structures - Existing and Proposed	
				Bodies of Water, Field Tiles	
				Water and Geothermal Wells - on site and adjacent	
				All Soil Boring Locations	
				North Direction Arrow	
				All System Components	

Separation Distances (57(a))*

					Min.	
				Private Water Supply or Geothermal Well	50'	
				Commercial Water Supply or Geothermal Well	100'	
				Public Water Supply Well, Lake or Reservoir	200'	
				Pond, Retention Pond, Lake, Reservoir	50'	
				Storm Water Detention Area	25'	
				River, Stream, Ditch or Drainage Tile	25'	
				Buildings, Foundations, Pools, Driveways, etc.**	10'	
				Front, Side, Rear Property Lines	5'	
				Water Lines continually under pressure	10'	
				Suction Water Lines	50'	
				Private water supply well, properly abandoned	10'	
				Cemetery	100'	

*Minimum Distances doubled for SLR >0.75gpd/ft²

** See complete listing in Table I, Section 57(a)

				Site Protected from disturbance	

Notes on General Plan Review

Meets or Exceeds	Does Not Meet	Additional Information	Not Applicable	
				Residential Sewer (57(b), 57(c), 67(a)(1), 74(i), 74(j), 74(k))
				Piping Specifications
				<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> PVC <input type="checkbox"/> ASTM 2665-12 <input type="checkbox"/> ASTM F 891-10 <input type="checkbox"/> ASTM D 3034-08 <input type="checkbox"/> ASTM 480-12 </div> <div> <input type="checkbox"/> ABS <input type="checkbox"/> ASTM D 2661-11 <input type="checkbox"/> ASTM D 2680-01 <input type="checkbox"/> ASTM D2751-05 </div> </div>
				Pipe Diameter _____ Inches
				Pipe Length _____ Feet
				Proper Fall (Min. 4"/25' [1.33%] Max. 36"/25' [12%])
				Vertical Drop with cleanout
				Septic Tank (60, 61, 63)
				Cross Section view provided
				Approved Tank
				Manufacturer _____
				Material _____
				Capacity _____ gal.
				# Compartments _____
				Multiple septic tanks _____ (largest upstream)
				Approved Tank Connectors
				Approved Risers
				Childproof Plug
				Risers installed above floodplain elevation
				Existing Tank (condition confirmed)
				<input type="checkbox"/> Watertight
				<input type="checkbox"/> Baffles in place / retrofitted
				<input type="checkbox"/> Appropriate size
				<input type="checkbox"/> Testing needed
				<input type="checkbox"/> To be abandoned - documentation to be provided
				Outlet Filter (64)
				Approved Filter
				Manufacturer _____
				Model _____
				Flow Rating _____ gal/day
				Location _____
				Effluent Sewer Pipe (67(a)(1), 74(l), 75(d), 75(e), 75(f))
				Piping Specifications
				<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> PVC <input type="checkbox"/> ASTM 2665-12 <input type="checkbox"/> ASTM F 891-10 <input type="checkbox"/> ASTM D 3034-08 <input type="checkbox"/> ASTM 480-12 </div> <div> <input type="checkbox"/> ABS <input type="checkbox"/> ASTM D 2661-11 <input type="checkbox"/> ASTM D 2680-01 <input type="checkbox"/> ASTM D2751-05 </div> </div>
				Upgraded Pipe
				<input type="checkbox"/> Pressure rated pipe <input type="checkbox"/> Waterworks ductile iron with mechanical/tyton joints
				<input type="checkbox"/> SDR 26 or less
				<input type="checkbox"/> Compression Gasket Joints
				Pipe Diameter _____ Inches
				Pipe Length _____ Feet
				Proper Slope (Min. 0.2%)
Notes/Comments				

Meets or Exceeds	Does Not Meet	Additional Information	Not Applicable	
				Dosing Tank (62, 63)
				Cross Section view provided (with gal/in)
				Approved Tank
				Manufacturer
				Material
				Sufficient Liquid Capacity
				Liquid Capacity _____ gal. _____ in. (as spec by manuf.)
				Freeboard _____ gal. _____ in. (alarm to inlet inv)
				Alarm _____ gal. _____ in. (on to alarm)
				Dose + Drainback _____ gal. _____ in. (off to on)
				Pump Submersion _____ gal. _____ in. (Bottom to off)
				Total req. cap. _____ gal. _____ in. (Bottom to inlet inv)
				Acceptable Access Ports
				Approved Tank Connectors
				Float / Sensors with elevations (Mercury comparable)
				Float settings reflect correct dose (with elevations)
				Top installed above floodplain elevation
				Effluent Pump (65)
				Acceptable Pump Selection with pump curve attached
				Manufacturer
				Model
				Total Dynamic Head _____ ft.
				System Flow _____ gpm
				<input type="checkbox"/> Lifting Rope <input type="checkbox"/> Electrical Box (NEMA 4X)
				<input type="checkbox"/> Pump and Alarm on Separate Circuits
				Effluent Force Main (67(a)(2), 67(b))
				Piping Specifications
				PVC _____ ABS _____
				<input type="checkbox"/> ASTM D 2241-09 <input type="checkbox"/> ASTM D 1527-99
				<input type="checkbox"/> ASTM D 1785-06 <input type="checkbox"/> ASTM D 2282-99
				<input type="checkbox"/> SDR ≤26 with Gasketed compression-type joints (≤10' from water line)
				Pipe Diameter _____ Inches
				Pipe Length _____ Feet
				<input type="checkbox"/> Pipe Drains to _____ or <input type="checkbox"/> Installed below frostline
				Distribution Box (66, 75(c), (i))
				Approved Distribution Box
				Manufacturer
				Material
				<input type="checkbox"/> Minimum Size Req. <input type="checkbox"/> Baffle
				<input type="checkbox"/> Sanitary Tee <input type="checkbox"/> 90 elbow with weephole
				Effluent Sewer Pipe (Header Pipes) (67(a)(1), 74(l), 75(d), 75(e), 75(f), 75(i))
				Piping Specifications
				PVC _____ ABS _____
				<input type="checkbox"/> ASTM 2665-12 <input type="checkbox"/> ASTM D 2661-11
				<input type="checkbox"/> ASTM F 891-10 <input type="checkbox"/> ASTM D 2680-01
				<input type="checkbox"/> ASTM D 3034-08 <input type="checkbox"/> ASTM D2751-05
				<input type="checkbox"/> ASTM 480-12
				<input type="checkbox"/> Upgraded Pipe
				<input type="checkbox"/> Pressure rated pipe <input type="checkbox"/> Waterworks ductile iron with
				<input type="checkbox"/> SDR 26 or less <input type="checkbox"/> mechanical/tyton joints
				<input type="checkbox"/> Compression Gasket Joints
				Pipe Diameter _____ Inches
				Minimum 5' between distribution box and proximal end of trench
				Proper Slope (Min. 0.2%)
				Pipe backfilled with debris free soil (no aggregate) / soil compacted
				Soil Absorption Field General Parameters (To be checked for all SAFs)
				Properly Sized (square footage)
				Adequately described with soil evaluation
				On Contour
				Infiltrative surface above the regulated flood elevation

Meets or Exceeds	Does Not Meet	Additional Information	Not Applicable
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Subsurface Trench Soil Absorption Field

				Type of Distribution	
				Gravity Feed	
				Gravity Feed Alternating Fields	
				Flood Dosed	
				Pressure Distribution	

				Acceptable Design of Subsurface Trenches		
				Number of Trenches		
				Length of Trenches		
				Width of Trenches		
				Total square footage of trench bottom	sq. ft.	
				Minimum Depth of Installed Trenches	in.	
				Maximum Depth of Installed Trenches	in.	
				On Center Separation	ft.	

				Distribution Pipe Specifications (67(c))	
				ASTM 2665-12	ASTM D 2661-11
				ASTM F 891-10	ASTM D 2680-01
				ASTM D 3034-08	ASTM D 2751-05
				ASTM D 2729-11	ASTM D 1527-99
				ASTM F 810-07	ASTM D 2282-99
				ASTM D 2241-09	Water works grade ductile iron
				ASTM D 1785-06	ASTM 480-12
				AASHTO M252-09	
				Pipe Diameter	Inches

				Bottom of Trench Level	
				Proper hole placement (4-8-12) or (4-8)	
				Pipe Level throughout length of trench	
				Approved Materials for subsurface trench	

	Stone / Gravel and Pipe
	Agg. Supplier
	Size
	Fines, Sand, Clay Removed
	Approved Barrier Material
	Proper Cross Section View

	Chamber
	Manufacturer
	Model
	% Reduction

	Tire Chips and Pipe
	Supplier
	Size
	in.

	Approved Barrier Material
	Proper Cross Section View

	Gravelless Pipe (gravity systems only)
	Manufacturer
	Model
	Size

	Other (may require additional plan submittal paperwork)
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Notes/Comments

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Meets or Exceeds	Does Not Meet	Additional Information	Not Applicable			Approval Constitutes Best Judgment
Elevated Sand Mound System (79-89)						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable Design of Elevated System		<input type="checkbox"/>
				<input type="checkbox"/>	Sloping Site (>1/2%) Aggregate Bed Upslope	
				<input type="checkbox"/>	Level Site (≤1/2%) Aggregate Bed Centered	
				Aggregate Bed Area	sq. ft.	<input type="checkbox"/>
				Length	ft.	<input type="checkbox"/>
				Width	ft.	<input type="checkbox"/>
				Basal Area	sq. ft.	<input type="checkbox"/>
				Length	ft.	<input type="checkbox"/>
				Width	ft.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross Section of Elevated Sand Mound		
				<input type="checkbox"/>	Min. 12" sand under Aggregate Bed	
				<input type="checkbox"/>	Min. 6" agg under and 2" agg over distribution lateral	
				<input type="checkbox"/>	Approved Barrier Material over aggregate	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Plan View of Elevated Sand Mound		
				<input type="checkbox"/>	Proper Lateral Separation (2-3')	
				<input type="checkbox"/>	Proper Lateral to Edge separation (1-1.5')	
				<input type="checkbox"/>	Proper Lateral to End separation (1.5')	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Accurate effluent force main approach to ESM		<input type="checkbox"/>
				<input type="checkbox"/>	Approach from upslope side (sloping site)	
				<input type="checkbox"/>	Approach from either end (level or sloping site)	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimal Disturbance to Basal Area		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INDOT Spec 23 sand specified in basal area		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aggregate in Aggregate Bed		
				Type of Aggregate		
				Size of Aggregate		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional 1' sand surrounding aggregate bed		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional sand on ends of ESM (min. 3:1 slope)		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional sand on upslope of ESM (sloping sites) (min. 3:1 slope)		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manifold Specifications		
				PVC	ABS	
				<input type="checkbox"/>	ASTM D 2241-09	<input type="checkbox"/>
				<input type="checkbox"/>	ASTM D 1785-06	<input type="checkbox"/>
				Manifold Length	Feet	Manifold Diameter <input type="checkbox"/> Inches
				<input type="checkbox"/>	Center feed	<input type="checkbox"/>
				<input type="checkbox"/>	End feed	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pressure Distribution Laterals Specifications		
				PVC	ABS	
				<input type="checkbox"/>	ASTM D 2241-09	<input type="checkbox"/>
				<input type="checkbox"/>	ASTM D 1785-06	<input type="checkbox"/>
				Lateral Length	Feet	Lateral Diameter <input type="checkbox"/> Inches
				Number of laterals	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper Lateral Hole Spacing		
				<input type="checkbox"/>	1/4" holes	<input type="checkbox"/>
				<input type="checkbox"/>	3' on center spacing (beginning 1.5' from manifold)	
				<input type="checkbox"/>	Proper hole placement in endcap	
				Holes per lateral	<input type="checkbox"/>	Holes per network <input type="checkbox"/> Holes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil Cover Material		
				<input type="checkbox"/>	Min. 12" over ESM & 18" Crowned over Agg. Bed	
				<input type="checkbox"/>	Min. 3:1 slope	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper Installation Technique Methods Noted		
				<input type="checkbox"/>	Protection of Site	
				<input type="checkbox"/>	Tillage Method	
				Depth of tilling	<input type="checkbox"/> in.	
				<input type="checkbox"/>	Parallel to contour	
				<input type="checkbox"/>	Chisel	<input type="checkbox"/>
				<input type="checkbox"/>	Moldboard	<input type="checkbox"/>
					Backhoe (with approval)	
					Bulldozer with ripper	

Meets or Exceeds	Does Not Meet	Additional Information	Not Applicable			Approval Constitutes Best Judgment
Sand Lined System (SLS) Soil Absorption Field						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Product proposed in design		
				Manufacturer _____		
				Model _____		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Certification of designer for product used		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable Design		
				<input type="checkbox"/>	Sloping Site (>1/2%) Aggregate Bed Upslope	
				<input type="checkbox"/>	Level (≤1/2%) Aggregate Bed Centered	
				<input type="checkbox"/>	Elevated	
				<input type="checkbox"/>	Site slope confirmed ≤6%	
				<input type="checkbox"/>	Minimum 12" sand under pipes	
				<input type="checkbox"/>	Installed at original grade	
				<input type="checkbox"/>	Installed at ≤4" (Presby or Infiltrator ATL) or at surface (Eljen)	
				<input type="checkbox"/>	Subsurface	
				<input type="checkbox"/>	Site slope confirmed ≤15%	
				<input type="checkbox"/>	Minimum 6" sand under pipes	
				Max. Installation depth _____ in		
				<input type="checkbox"/>	Gravity flow	<input type="checkbox"/> Pump assisted (may require velocity reduction)
				<input type="checkbox"/>	Pressure distribution (Eljen only)	
				<input type="checkbox"/>	Serial distribution	<input type="checkbox"/> Parallel distribution
				<input type="checkbox"/>	Sequential distribution (Eljen only)	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Min. 1% slope and 2" fall from septic tank to pipe or D-box and pipe (Presby)		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bed Design (SLS using trenches or ESM, use conventional SAF checklist)		
				<input type="checkbox"/>	As long and narrow as site allows	
				Pipe Bed dimensions	Length <input type="text"/>	ft Width <input type="text"/>
				Length of pipe/conduit/unit run	<input type="text"/>	ft
				Depth of sand under pipe bed	<input type="text"/>	ft
				On-center separation between rows	<input type="text"/>	ft
				Separation between pipe and edge	<input type="text"/>	ft
				<input type="checkbox"/>	Min. 1' sand at each end	
				<input type="checkbox"/>	Raised connections	
				Basal Area Dimensions	Length <input type="text"/>	ft Width <input type="text"/>
				Bed Area	<input type="text"/>	sq. ft.
				<input type="checkbox"/>	INDOT Spec 23 sand specified in basal area	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover Material		
				<input type="checkbox"/>	Min. sand over pipe	
				<input type="checkbox"/>	None required	<input type="checkbox"/> Min. 3" required (Presby)
				<input type="checkbox"/>	Soil cover (min. sand plus soil = 12")	
				<input type="checkbox"/>	Min. 3:1 slope	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Venting (Required for Presby, only required for ATL and Eljen if >18" cover)		
				<input type="checkbox"/>	Low Vent	
				<input type="checkbox"/>	At low point of system	
				<input type="checkbox"/>	Min. 1' above grade	
				<input type="checkbox"/>	Remote with proper design	
				<input type="checkbox"/>	High Vent	
				<input type="checkbox"/>	House vent	<input type="checkbox"/> At D-box <input type="checkbox"/> Remote
				<input type="checkbox"/>	Min. 10' above low vent	
				<input type="checkbox"/>	Proper vent design	
Notes/Comments						

Meets or Exceeds	Does Not Meet	Additional Information	Not Applicable		Approval Constitutes Best Judgment
				Dispersal Area (58)	
				Adequate dispersal area identified	
				<input type="checkbox"/>	1/4 width of SAF on each side of system (slope $\leq 1/2\%$)
				<input type="checkbox"/>	1/2 width of SAF on downslope side of system (slope $> 1/2\%$)
				<input type="checkbox"/>	No portion slopes back toward SAF (slopes $> 1/2\%$)
				<input type="checkbox"/>	10' to perimeter drain
				Drainage (59)	
				Surface Diversion	
				<input type="checkbox"/>	Positive Grade (min. 0.2%)
				<input type="checkbox"/>	Sufficient Depth & Width
				<input type="checkbox"/>	Proper separation to soil absorption field
				<input type="checkbox"/>	Upslope position
				Subsurface Drainage	
				Calculated site slope _____ %	
				<input type="checkbox"/>	Full Perimeter drain
				<input type="checkbox"/>	Interceptor Drain
				<input type="checkbox"/>	Segment Drain
				Adequate Depth _____	
				<input type="checkbox"/>	2" into massive clay, glacial till or fragipan
				<input type="checkbox"/>	36" below adjacent trench bottom (subsurface)
				<input type="checkbox"/>	32" below grade (ESM)
				<input type="checkbox"/>	Drainage Calculations included
				Min. 10' separation to SAF laterals	
				Positive Slope (min. 0.2% for 4" or min. 0.1% for 6")	
				Acceptable Outlet	
				<input type="checkbox"/>	To existing approved tile
				<input type="checkbox"/>	To daylight with rodent guard
				Pipe Specifications (67(e))	
				<input type="checkbox"/>	ASTM F 405-05 <input type="checkbox"/> NRCS 606
				<input type="checkbox"/>	ASTM F 667-12
				Wrapped with geotextile fabric (63(b)(3))	
				Appropriate Backfill (59 (i) and (j))	
				<input type="checkbox"/>	Backfilled to surface with aggregate
				<input type="checkbox"/>	Backfilled to within 6" of grade with geotextile fabric

Notes/Comments