

**Aitkin County { Design Notes }**

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Property Owner: Richard Hartman Date: 6/14/2021 Designer's Initials : JB  
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Owner proposes a 3 bedroom House, with Slab or Crawl space, with gravity flow from house.  
House location within Mississippi flood area, Owner will need a survey for Lowest floor elevation.  
House elevation not set at time of design. From Aitkin Co GIS map approx. Elevation of house Elv. = 1200'  
On 6/11/2021 talked to Aitkin Co. Environment Services, 10 yr. flood Elv. = 1999.5 and 100 yr. Flood Elv. = 1202.5  
Existing deep well SE of house approx. 90ft.  
Existing tank or tanks to be Pump, collapse, or removed, location is on North side of house.  
Owner proposes holding tank over a Type III mound for now, may install mound later.  
Install a Jacobson 1500 single compartment septic tank, than a Jacobson 1650 2/Compartment tank  
The Tanks may be use in future mound design.  
Install tank with risers water tight, Cap and seal any inspection pipes, tank will be in floodway zone.  
Raise manhole of tank to above Elevation 1999.5' ( recommend to 100 yr. if possible. Elv. = 1202.5' )and secure cover  
If house requires a building pad constructed for flood Elevation, owner should include large enough pad  
to include tanks in pad. ( if this happens tanks can be located 10 ft from house )  
Install electric alarm in last compartment at approx. 10% of that tanks capacity. Or approx. 400 gallons reserve.

The holding tank location meets setbacks to river, well, buildings, property line.

Owner will need a Holding Tank Pumping Service Agreement.

Jeff Brummer L-1347

