

When do you need an engineer?

Types of Projects	Review Required		Plan Review Not Required
	Plan Review Only	District Engineer Field Approval Allowed	
Community Water Supply Wells			
Construct New Community Water Supply Well	1		
Wellhead completion	1		
Replace Pump with Exact Same Pump			3
Replace vertical turbine pump with submersible pump	1		
Replace submersible pump with vertical turbine pump	1		
VFD Installation			X
Modify Well Casing (either extend or shorten)	2		
Install a New Well Casing in an existing well	2		
Well Rehabilitation (includes pulling pump, replacing screen, acid treatment, etc.)			X
Well Sealing			X
Surface Water Intake Structures			
Modifying Surface Water Intake Structures	1		
Replace surface water intake pump			X
Surface water intake circulation/aeration			X
Intake chemical treatment (algicide, etc.)	2		
Treatment Plants & Well Pumphouses			
Filter rehabilitation (structural modifications or interior coating)	1		
Replacing filter media with exact same media			3
Replacing filter media with different media	1		
New chemical addition (includes temporary chemicals)	2		
Replacing or adding a chlorine cabinet		2	
Emergency chemical addition (for bacti issues only)		2	
Change to Similar Chemical Type (i.e. KMnO4 to NaMnO4)		2	
Adding gas chlorine inside of building	1		
Converting gas chlorine to sodium hypochlorite	2		
Moving a chemical injection point to a new location		2	
Eye wash addition	2		
Emergency Electrical Generator Addition	2		
Replacement of existing chem feed equip (tank, pumps, tubing, etc.)			3
Replace high service pump (with exact same pump)			3
Replace high service vertical turbine pump with submersible pump	2		
Replace high service submersible pump with vertical turbine pump	2		
Installation of Water Monitoring Equipment		2	
Changing pipe configuration or size	1		
Replacing Existing Piping with Same Size Pipe			3
New Treatment Plant	1		
New Pumphouse/Wellhouse	1		
Drinking Water Storage			
Painting /Coating Wet Interior	1		
Rehabilitation of Storage Facilities	1		
New Storage Tower/Standpipe/Reservoir	1		
Chemical feed at storage	2		
Mixing system addition	2		
Coating exterior only (without structural modifications)			X
Adding an Emergency Electrical Generator for Cell Phone Use	2		
Watermain			
New Watermain Installation (>100 ft)	1		
Watermain Replacement (> 100 ft)	1		
Raw Water Transmission Main Installation (> 100 ft)	1		
Hydrant and/or Valve Replacement only			X
Automatic Flushing Devices	2		
Booster Stations			
Changing pipe configuration of size	1		
New booster station	1		
Replace booster pump with exact same pump			3
Replace submersible booster pump with vertical turbine pump	2		
Replace vertical turbine booster pump with submersible pump	2		
Emergency generator addition (contact MDH prior to installation)		2	
Key			
1	Plans must be submitted by a professional engineer		
2	Plans may be submitted by the licensed contractor performing the work, owner, or professional engineer		
3	The work must be replacing like component with like component (size, shape, type)		