



THE CITY OF ANTHONY

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Anthony Golf Board
1936 Nine Iron Dr
Anthony, KS 67003

RE: Onsite Wastewater System

Anthony Golf Board,

As per your request, the following are the minimum specifications for the installation of an onsite wastewater system to serve a new public restroom facility on the south side of the golf course. The location is denoted in red on the following map. If this location changes, the following specifications will be void and the golf course must request an assessment of the new location by the city prior to proceeding.



Water Use Notice:

This system has been approved to utilize water from the three water wells (KDHE Permit No. 41865) located on the east side of the course. KDHE has permitted the City of Anthony to utilize 9.5 acre-feet per year of irrigation water right from these 3 wells (combined). According to the DWR, since this use will be for non-irrigation purposes, the volume for the new restroom facility will not impact the allowable irrigation water right. However, all water usage is legally required to be recorded and therefore it will be necessary to install a meter on the new water line from the wells serving the new public restroom (location of the meter to be determined).

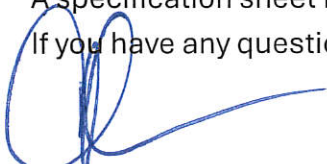
This approval to utilize water from these wells is only granted for the purpose of supplying water to this new restroom. Connecting any other line or any other use of the water other than the purpose stated herein is not permissible without prior approval from the City of Anthony.

A soil profile analysis was performed at two locations as denoted on the following map. Location A encountered shale at 6'2". Location B encountered mottling and shale at 4'. It is required to maintain a 3' separation from the trench bottom of the lateral field to a rock layer and a 4' separation from the trench bottom to water (even seasonal). This is why I profiled two locations; giving the Golf Board two system options for pricing when considering lift pumps and or fill dirt.



A specification sheet is attached to this document which can be utilized for bidding purposes.

If you have any questions, please let me know.


Cyndra Kastens, CFM
City Administrator

Anthony Golf Course South Restroom
Onsite Water/Wastewater Minimum Specifications

1. **WATER SERVICE:** The city will tap the existing water line and install a meter. Golf Board Plumber will install service line from 6' outside of new meter to new restroom facility and any necessary equipment for water delivery.
 - Only this restroom facility shall be serviced with this line. No other connections are permitted to tap the Golf Board service line at any time.
 - Since this water source is **NON-POTABLE WATER**, no sinks or water faucets, hydrants, or other water fixtures, except public toilets, shall be installed inside or outside the restroom facility.
 - Install one shut-off valve for maintenance and emergency purposes.
 - Installation must meet 2018 IPC codes.
2. **SEWER SERVICE:** Due to the presence of rock and water, the Golf Board is permitted to select one of the two following options:
 - a. Install a standard lateral system at location A.
 - b. Install an at-grade lateral system at location B.

Either of these options may require a lift pump. Option B will require fill dirt and seeding.

- Installation must follow KDHE Bulletin 4-2 recommended guidelines. In absence of said specification, installation shall follow 2018 IPC.
- 1,000 Gallon Septic Tank (depending on actual gpd, could request to reduce to 500)
- 150 sq. ft. Lateral Field = 50 Lineal Feet of Area (13 Standard 3'x4' Chambers)
Note: Bulletin 4-2 has a standard estimated usage of 150 gpd based upon two people at 75 gpd each. I reduced the design for this system to 75 gpd. However, based upon a plumber's recommended estimation of actual gpd and the Golf Board's comfort level for their investment, the city could entertain a further reduction in lateral size.

3. **INSTALLATION REQUIREMENTS:** Prior to installation, the following shall be required by the Golf Board's selected plumbing service -
 - Work must be performed by a City of Anthony Licensed Plumber.
 - A permit application must be submitted to the city indicating which lateral field option will be installed, the number, type, and location of water fixtures to be installed, an estimated total gpd usage, and a map indicating the layout of the water service line and all components of the wastewater system denoting that the required code separation distances have been met.
 - All licensing and permit fees shall be waived by the city.
 - The soil profile revealed a majority silt loam soil with moderate-strong structure. Shale was present in location A at 6'2" and shale/water in location B at 4'. If other soil or limiting factors are present during installation, work must stop, and the city must be contacted. The approved minimum requirements stated herein can be subject to change in such an occurrence.