

DATE: 18 June 1979

INSTALLATION:

Alton Park - Community

CERTIFIED CLASS: n/a

COUNTY:

Franklin

LOCATION:

North of and adjacent to State Route 40, five miles west of Rocky Mount, Virginia

OWNER:

Aubon Water Company
~~104 Randolph Street~~
Rocky Mount, VA 24151

70 S MAIN

540-423-1226

OPERATOR:

G. Ray Boone

~~using private lab~~
~~1/24/79 BSW~~

PERMIT NO.

5067020

DATE ISSUED:

18 June 1979

TYPE OF TREATMENT:

None

SOURCE:

One drilled well

DESIGN BASIS:

24 existing residential connections

DESCRIPTION OF SYSTEM:

The source of water is obtained from drilled Well #1. The well is 110 feet deep, cased 52 feet and grouted 50 feet. The well is equipped with a 10-gpm submersible pump which discharges directly to a 2500-gallon pressure tank and/or to a 315-gallon pressure tank. When the 2500-gallon pressure tank is used, a centrifugal booster pump transfers water from the large to the smaller pressure tank and then water is supplied to the system. The well is housed in a 5' x 2' x 2.5' concrete block structure with lift-off roof. The well is provided with 6-inch casing, sanitary seal, and screened casing vent.

A larger 10' x 10' concrete block building houses the 315-gallon pressure tank, one end of the 2500-gallon tank, and the booster pump. The building is provided with electric heater and floor drain.

A second well interconnected with the Maddie Wade supply is not in service.

DESIGN BASIS:

Source Capacity: $\frac{10 \text{ gpm}}{0.5 \text{ gpm/equivalent residential connection (ERC)}} = 20 \text{ ERC}$

Storage Capacity: $\frac{2815 (1/3) \text{ gal.}}{20 \text{ gal/ERC}} = 5 \text{ ERC}$

Existing: 24 residential connections

SNS:gg

Alton Park 1. h.d.

15' x 5'
5.6' x 16'

ATMOSPHERIC TANK 5643 gal
LPT TANK 2843

2 WELLS

STATE HEALTH DEPARTMENT - DANVILLE REGIONAL OFFICE

PROJECT:

Alton Park & Maddie Wade water storage tank.
preliminary project.

Owner:

Aubon water company Attn: Mr G. Ray Boone, president
215 North Main Street
Rocky Mount, VA 24151 (703-483-1286)

Location - City/Town/County:

Franklin County - on RT 40
4 miles west of Rocky Mount

Design Engineer - Firm/Address/Phone Number:

William L. Law P.E. Civil
Engineer Route 1, Box 420 Bassett, Virginia 24055
Telephone (703) 629-8575

Date of Plans Submittal:

18 August 1983

Date of Plans:

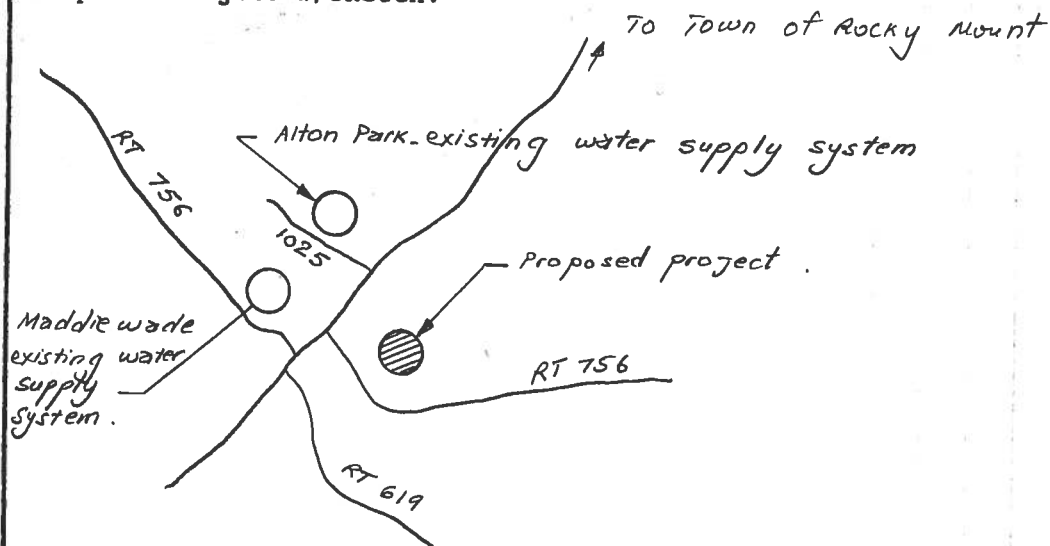
17 August 1983

Date of Scope & Detail:

Purpose of Project:

This is the preliminary plans for the proposed finished water storage facility. This facility will provide the necessary storage capacity for the Alton Park & Maddie Wade subdivisions.

Scope of Project w/sketch:



Review Engineer: T.V.Pham

P.D. 12

Date	Hours	Date	Hours
8/22/83 TVP	1		
8/23/83 TVP	2 (review & comments)		
Total 3 hrs.			

Alton Park & Maddie Wade water storage tank. preliminary plans.
Consultant Engineer - William L. Law P.E.

Review date: 23 August 1983

Reviewed by: T. V. Pham.

Section 11.00 Finished water storage facilities.

- Material and designs used for finished water storage.
 - polyethylene.
- Height of vertical tanks (all sizes) > 2 feet
- Height of horizontal tanks (all sizes except those less than 2 ft in height)
- watertight roof and cover are provided
- Drains - not provided.
- overflow - not provided.
- Access - 18" optional manhole is provided
 - 4" above the surface roof
 - Hinged locking device
- Vent - 1" ϕ polyethylene no-leak vent with anti-splash duct is provided
 - prevent the entrance of surface water
 - exclude birds and animals
 - Anti-splash vent ladder provided (in-place for screen)
- Roof and sidewall - no opening
- Drainage for roof or cover - roof and cover structure are well drained.
- Safety - ladders, ladder girds, balcony railings, and safe location of entrance hatches - not provided
- Freezing - vent is designed to prevent freezing
- Internal catwalk - N/A.
- Grading - N/A.
- Painting and/or cathodic protection - N/A
- Disinfection - NO