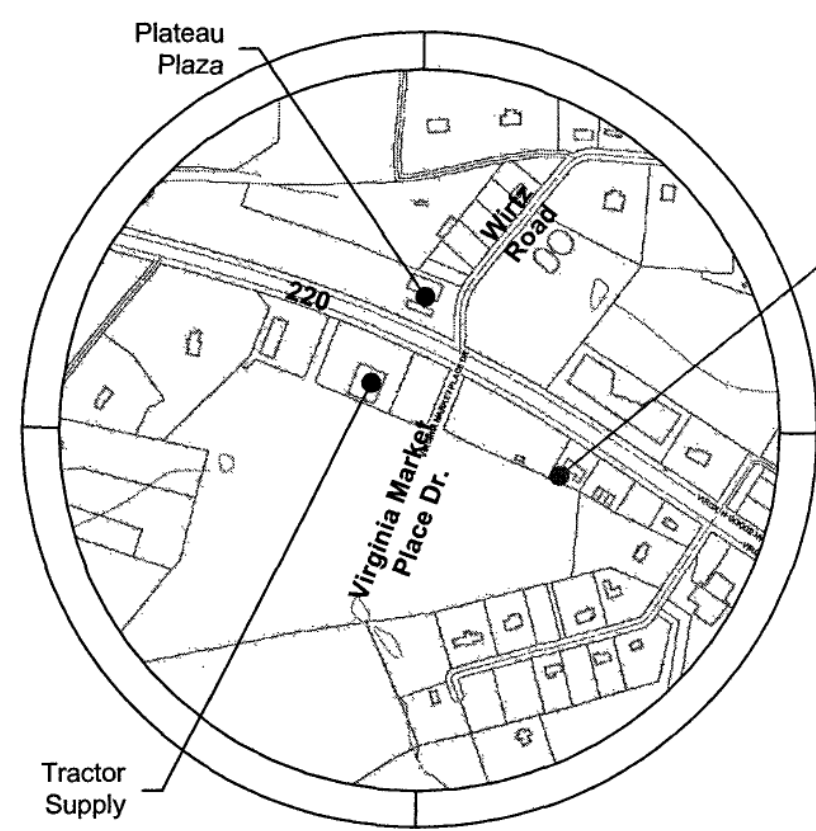
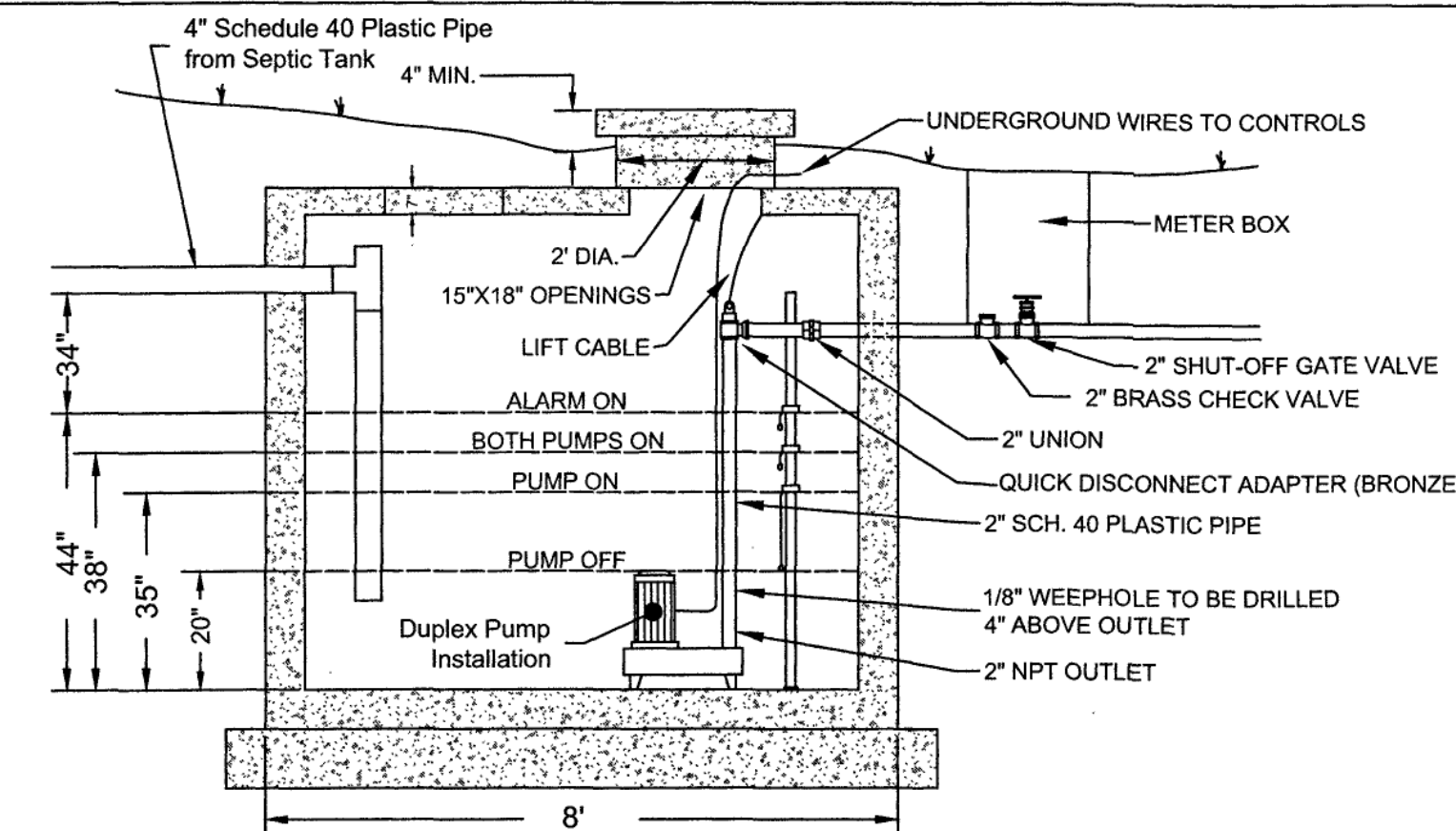




Location Map

(N.T.S.)

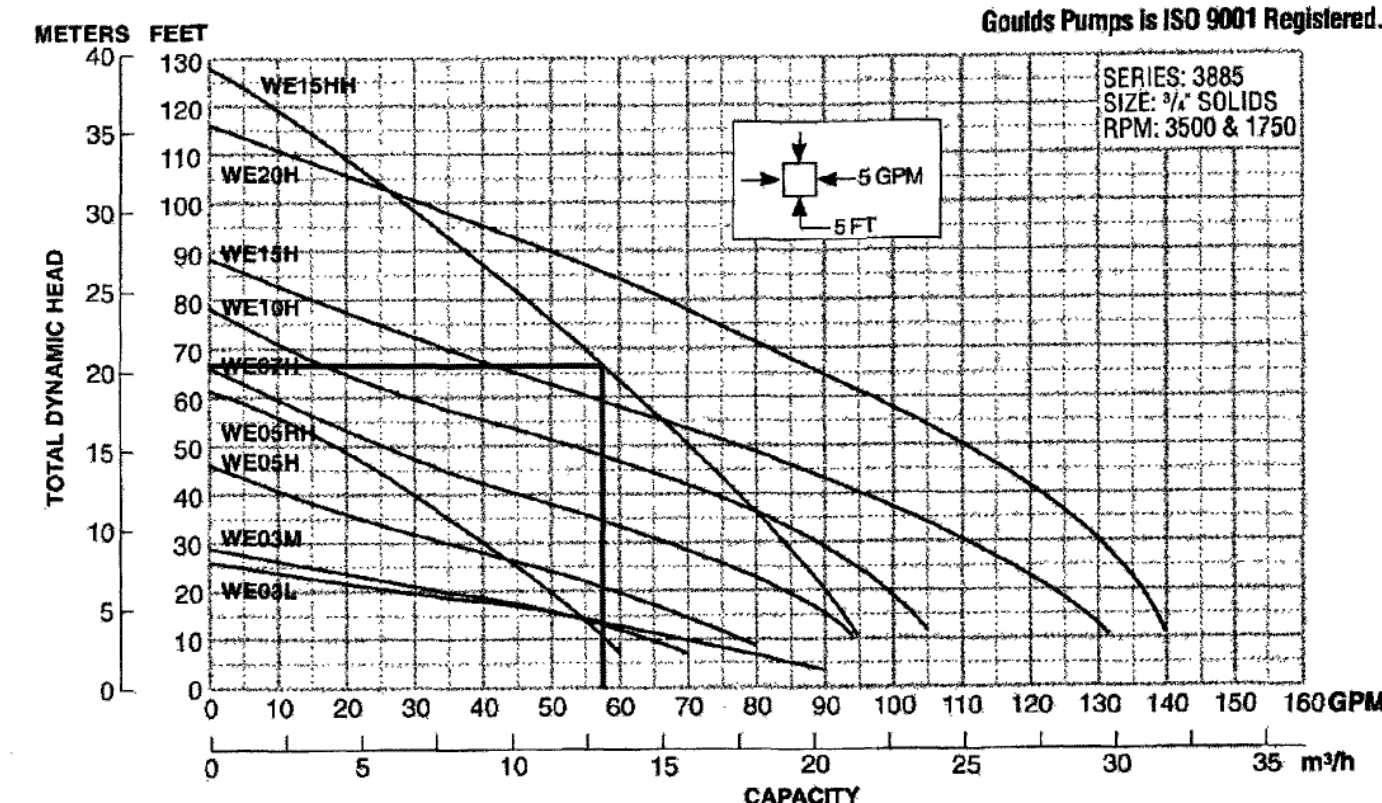
Franklin Restaurant



C.T. Jamison Precast Chamber

Special Order 2,000 gallon Tank (required for emergency storage)

(N.T.S.)



Pump Curve

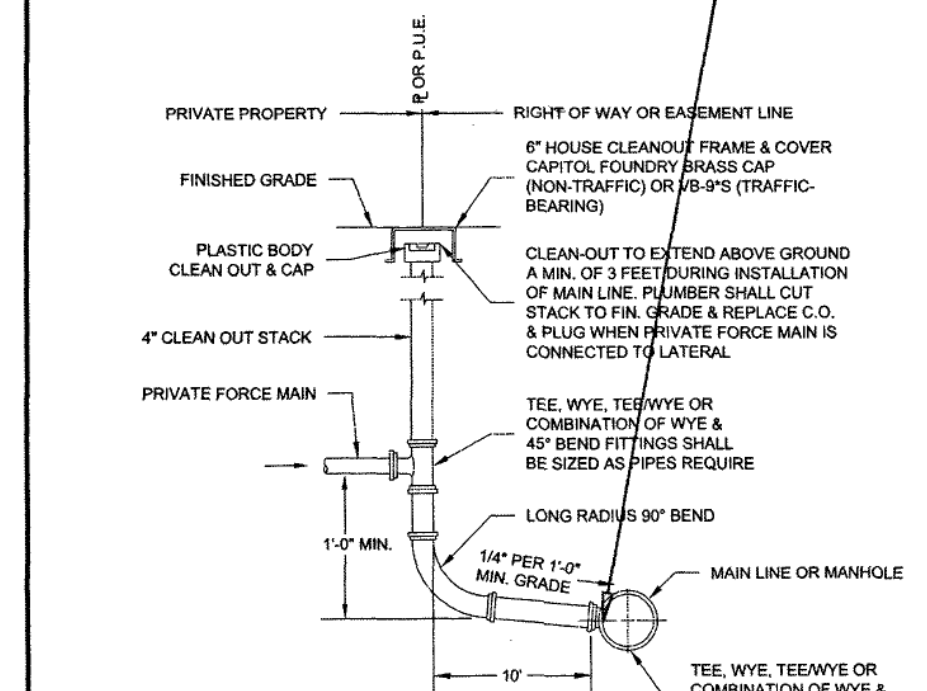
(N.T.S.)

Notes
This exhibit shows information from the Franklin County GIS and other sources. The information has not been verified for accuracy as presented, surveyed, etc. Depiction is "Not To Scale" and subject to changes from being "fitted in the field".

General Notes and Specifications

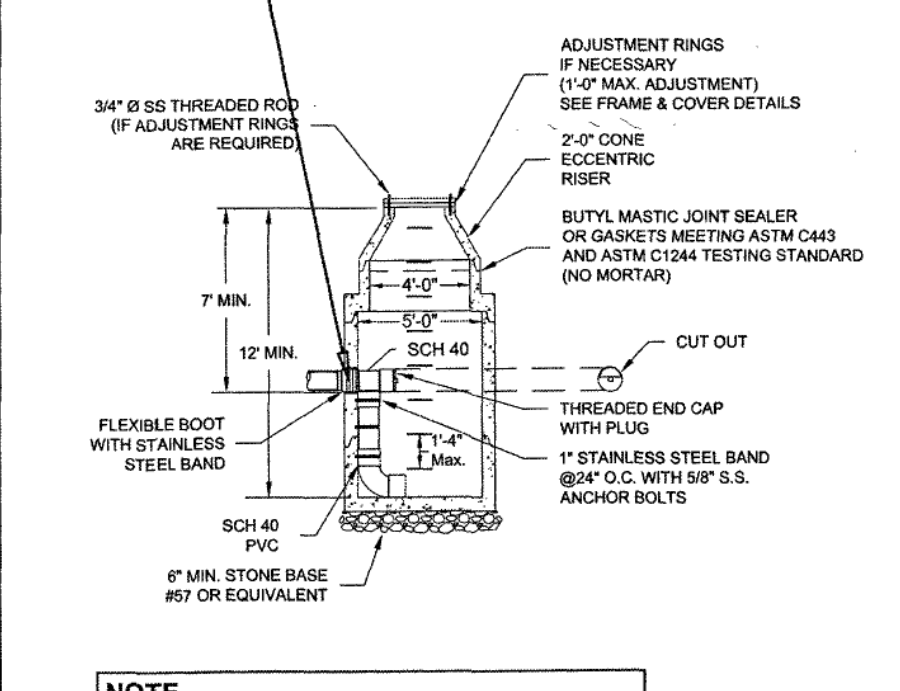
- Duplex Pump Installation: Goulds Model 3885, WE15HH, single phase, 230 volts or approved equal.
- Controls: Switches - Goulds A2-3 (3 required) or A2-7 (1 required) or approved equal. Controls - Goulds A6 Duplex Pump Control A6-2012 or approved equal.
- Piping and valves: all gravity lines and force mains outside pump station to be Schedule 40 PVC. All force main pipes shall be tested to 50 psi for one hour with no leakage permitted. Force mains shall have pressure fittings.
- Locations of septic tank, pump station, pipe lines and distribution boxes are approximated and are subject to minor adjustments during construction. Any significant deviations must be approved by the Engineer and WVWA.
- All construction of these sewerage systems to be in accordance with the State Board of Health Sewerage Handling and Disposal Regulations.
- Alarm to be mounted on interior of structure or inside NEMA III enclosure. Separate electrical circuit to be provided. Alarm - Goulds Model A4-2. Disconnect switch to be located on building within sight of pump chamber.
- Tanks and distribution boxes must be located a minimum of 5' from property lines, 10' from building foundations, 10' from utility lines.
- All boundary information is approximated.
- WVWA Contact: Mark Sink (540) 537-3460

- TRAFFIC BEARING BOX REQUIRED IN TRAFFIC AREAS.
- ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL.
- ALL PIPE SHALL BE OF SAME SIZE.
- NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEAN-OUT STACK WYE (EXCEPT AS NOTED).
- ALL MAIN LINE TAPS ON ACTIVE MAINS WILL BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.
- MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE (3) FEET.
- GRAVITY SECTION AND CLEANOUT SHALL BE 6" DIAMETER FOR PUBLIC FORCE MAINS AND 4" DIAMETER FOR PRIVATE FORCE MAINS.
- PUBLIC FORCE MAINS SHALL CONNECT TO SEWER MANHOLES.
- PROPERTY OWNER RESPONSIBLE FOR INSTALLING CLEANOUT ON PROPERTY LINE WHEN MAINTENANCE OCCURS, IN ACCORDANCE WITH THIS DETAIL.



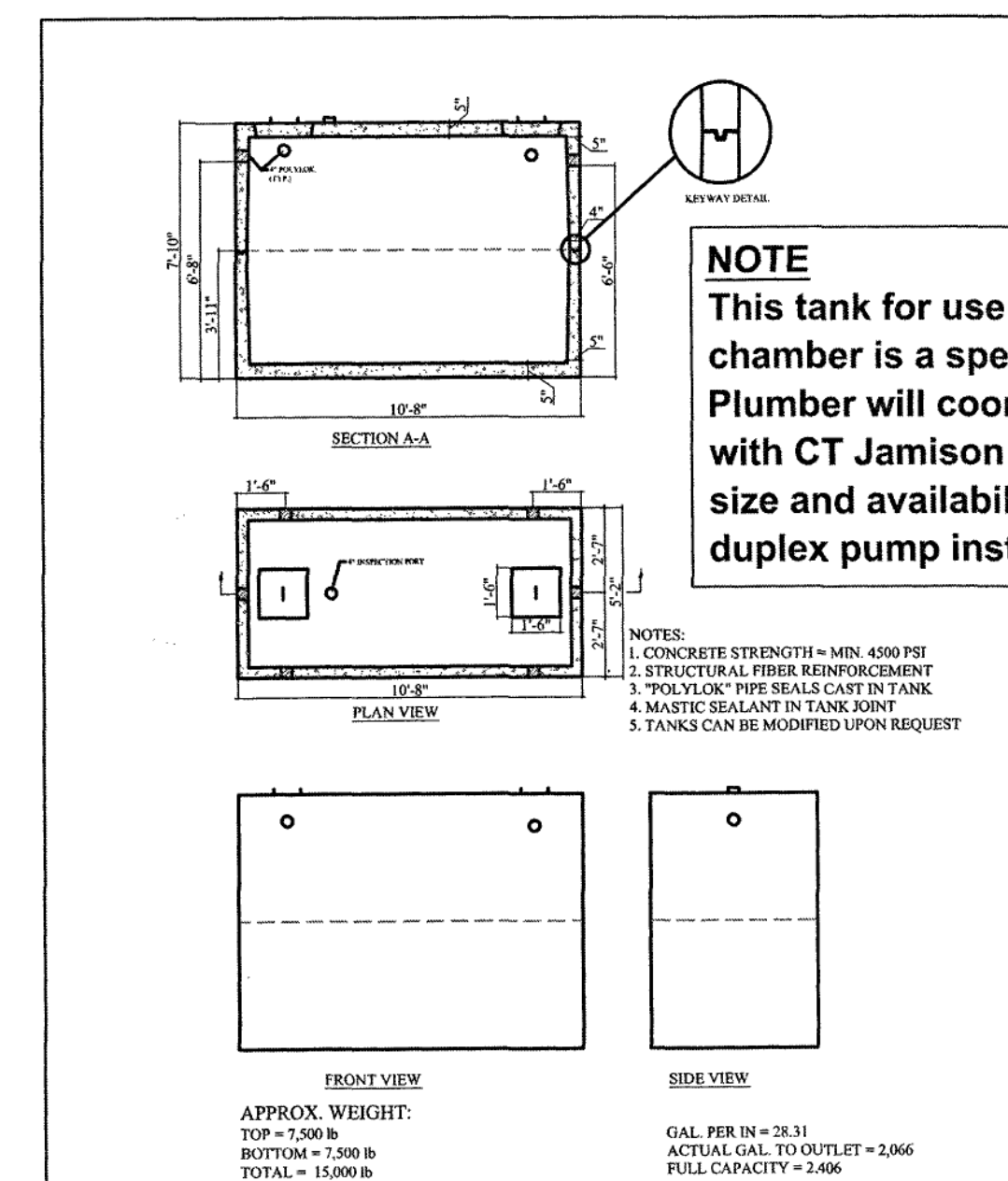
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL
FORCE MAIN TO GRAVITY LATERAL CONNECTION
01/09/14 S-8

- MATERIALS AND FABRICATION IN ACCORDANCE WITH ASTM C418-09.
- STEPS SHALL BE VERTICALLY ALIGNED. FIRST STEP SHALL BE WITHIN 12" OF COVER, BOTTOM STEP SHALL BE WITHIN 24" OF BOTTOM OF MANHOLE.
- THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND NOTED IN PLACE.
- RELINER BY DURAN INSIDE DROP BOWLS AND PIPE BRACKETS WILL BE ALLOWED.
- GROUT ANNUAL SPACE BETWEEN PIPE AND PRECAST MANHOLE ON INSIDE OF MANHOLE.
- STEPS SHALL BE A MINIMUM OF 90 DEGREES FROM DROP AND ALIGNED VERTICALLY.
- INSIDE DROP ONLY ALLOWED WHEN DEPTH EXCEEDS 12' AND APPROVED BY PARTICIPATING UTILITY.
- 6" MINIMUM DIAMETER MANHOLE REQUIRED FOR TWO OR MORE INSIDE DROP CONNECTIONS (MAIN LINE OR LATERAL).
- SEE FRAME AND COVER DETAIL.
- SEE DETAIL 8-21 FOR EXTERIOR COATING AND JOINT SEAL REQUIREMENTS.



NOTE
Existing manhole was proposed as 15.10 feet deep. New Core at min. 7' deep and install interior drop connection per this detail.

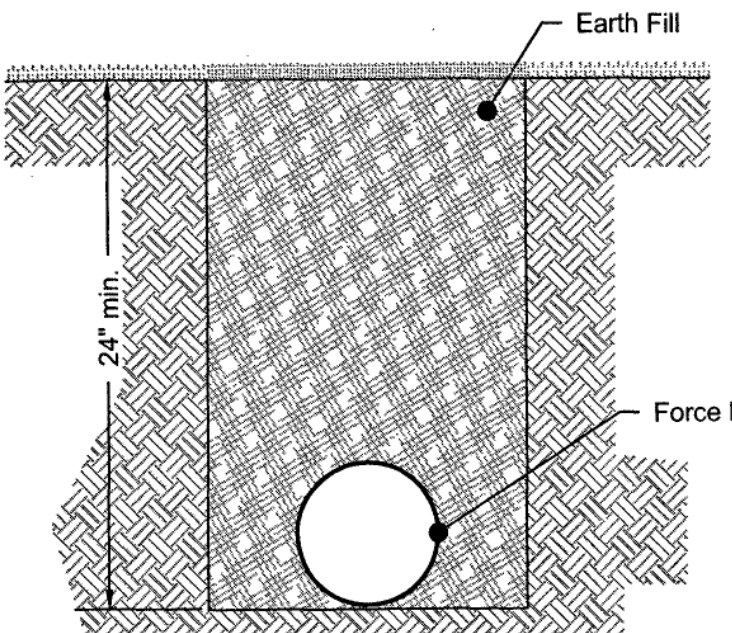
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL
INSIDE DROP MANHOLE
01/09/14 S-3



NOTE
This tank for use as a pump chamber is a special order. Plumber will coordinate with CT Jamison on entry size and availability for the duplex pump installation.

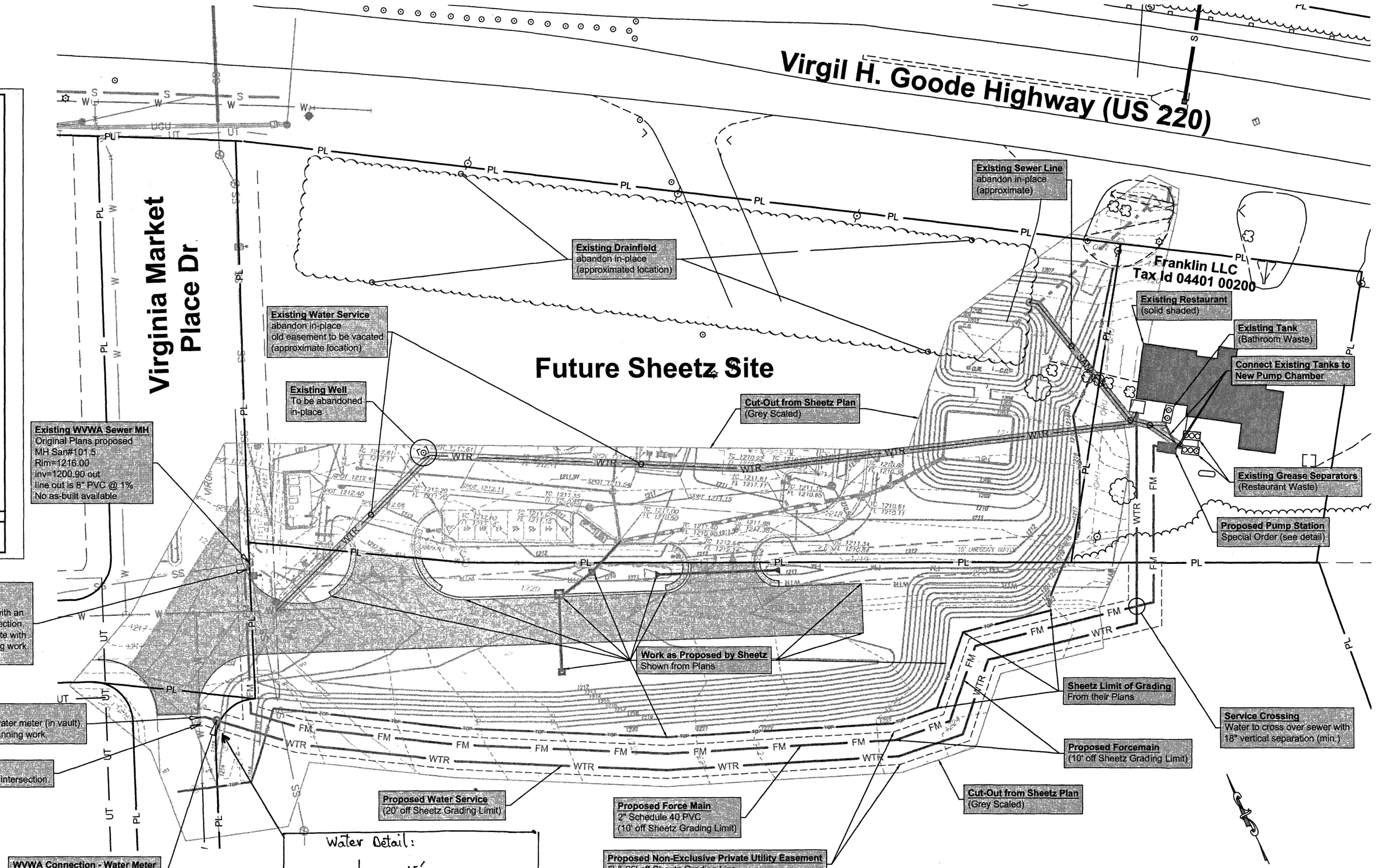
- NOTES:
- CONCRETE STRENGTH = MIN. 4500 PSI
 - STRUCTURAL FIBER REINFORCEMENT
 - "POLYLOK" TYPE SEALS CAST IN TANK
 - MASTIC SEALANT IN TANK JOINT
 - TANKS CAN BE MODIFIED UPON REQUEST

CTJAMISON.COM
PH: 540-483-5944
2,000 Gal. Mid Seam Tank
Date Feb 2016 Scale Not To Scale



Force Main Trench
(Not to Scale)

01

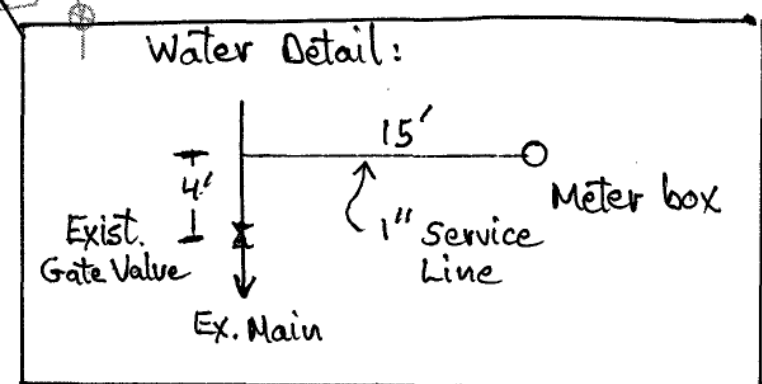


WVWA Connection
Force main into S-3
S-3 is cored into MH with an S-8 interior drop connection.
Contractor to coordinate with WVWA before planning work.
SEE BLOW-UP VIEW

WVWA Connection - Existing Water Line
Connect to existing water line east of existing water meter (in vault).
Contractor to coordinate with WVWA before planning work.

Existing WVWA Gate Valve
This is the first vault after the cross in the intersection.

WVWA Connection - Water Meter
Contractor to coordinate with WVWA before planning work.



Design Information

Static Head	12.0 ft
Friction Head	53.4 ft
Total Dynamic Head	65.4 ft
Flow Rate	57.5 gpm
Force Main Velocity	5.9 ft/s
Pump Run-Time/Cycle	7.1 min
Working Volume	408 gal.
Storage Volume	893 gal.

Water Info

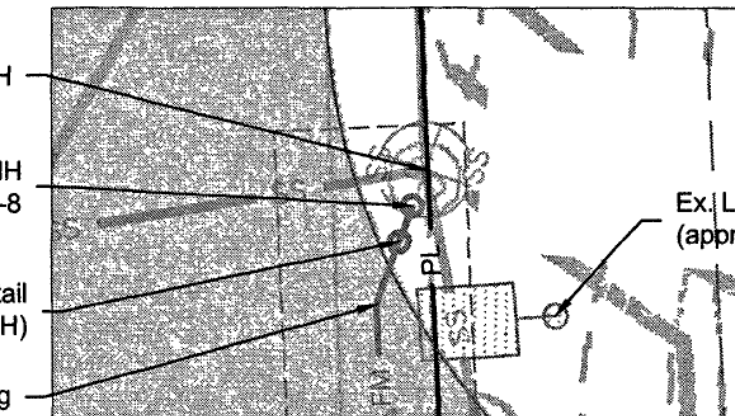
Pipe: 1" Endot HDPE SDR-9

Sewer Info

Pipe = 6" Charlotte PVC sch. 40

Sewer service installed per plan.

Cleanout on the S-3 Detail (note - not 10' from MH)
(Has cast iron F&C.)
22" Fltng
Cleanout is 8' from center of Ex.MH.

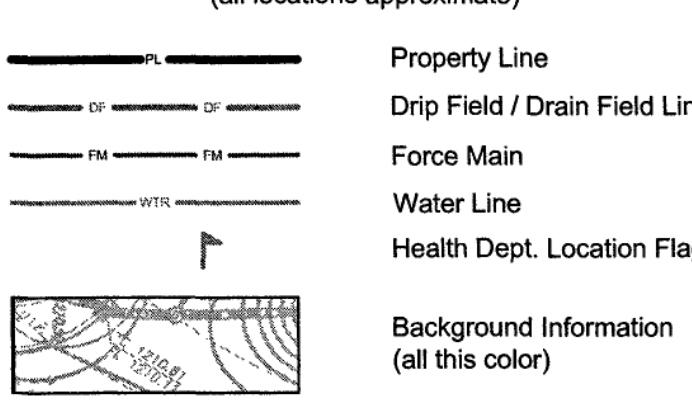


MANHOLE - Blow Up Detail
(nts)

DRAWING NOT TO SCALE

Legend

(all locations approximate)



Stone Engineering
P.O. BOX 1058
Rocky Mount, Virginia 24151
(540) 483-0078
(540) 483-5250 fax
www.stoneengineering.biz

DESIGN CDS
DRAFT CDS
CHECK CDS

WVWA Utility Services
Franklin Restaurant
Availability Letter 16-150
20221 Virgil H. Goode Highway
Boone Magisterial District, Franklin County, VA

DATE 05/10/2016
SCALE Not To Scale
SHEET 01 of 01
PROJECT NUMBER 12006

AS-Built Substantial Completion 12.29.16 K.Winslow