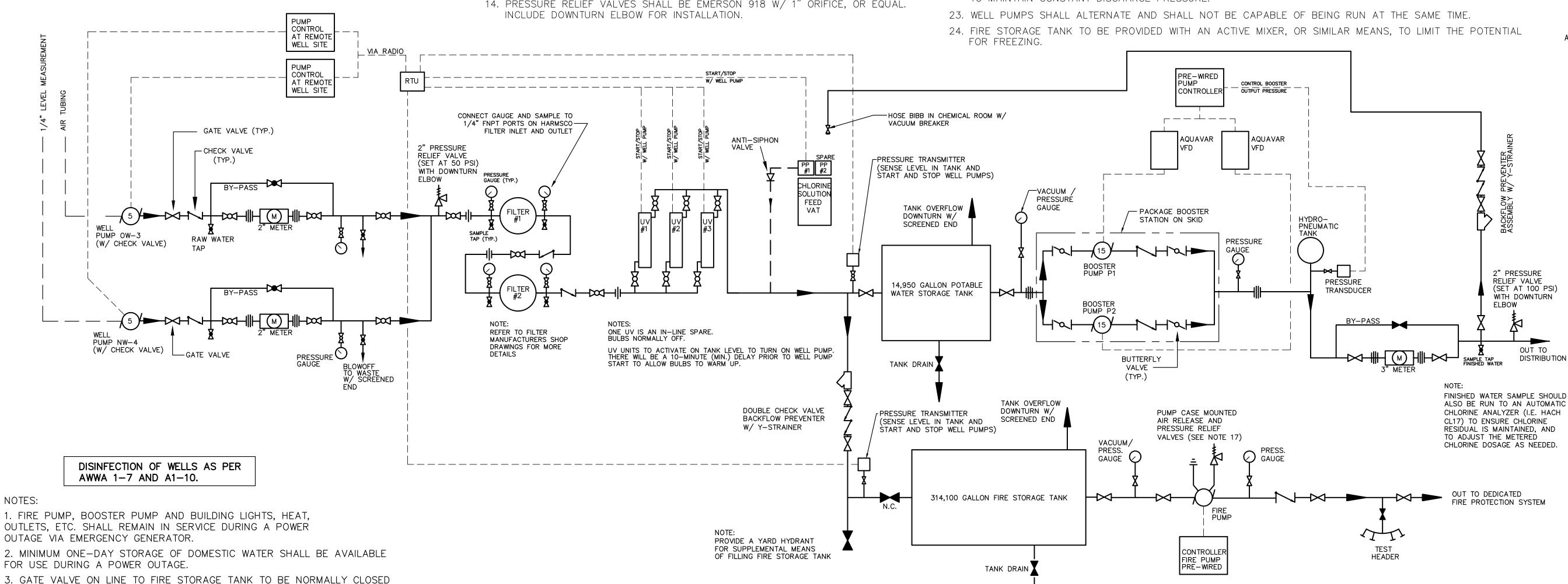
NOTES:

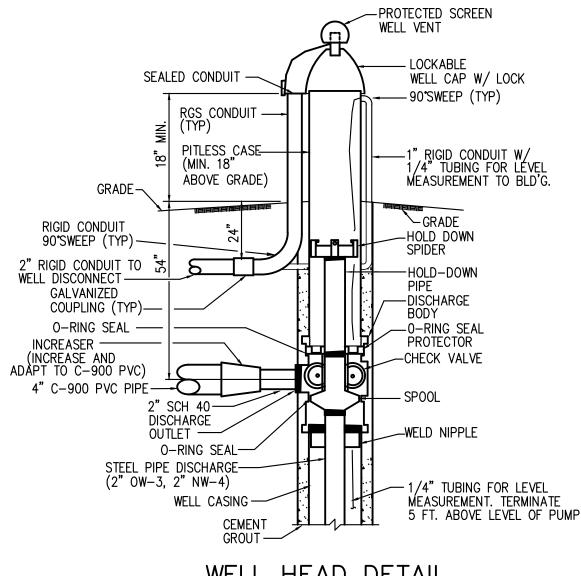
- 1. WELL HEAD VENTS SHALL BE 18" MIN. ABOVE GRADE WITH GROUND SLOPING AWAY FOR DRAINAGE.
- 2. WELLS SHALL BE DISINFECTED AND FLUSHED ONCE SANITARY CAP IS IN PLACE.
- 3. NEW WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED AND FLUSHED PER THE REQUIREMENTS OF ANSI/AWWA C651 PRIOR TO BEING PLACED INTO SERVICE.
- 4. WATER SAMPLES SHALL BE TAKEN PER AWWA STANDARD C601 AND D102 BEFORE SYSTEM IS PLACED INTO SERVICE.
- 5. WELLS SHALL HAVE A MEANS OF LEVEL CONTROL MEASUREMENT (AIR TUBING). LEVEL MEASUREMENT TUBING SHALL TERMINATE 5 FT. ABOVE PUMP SETTING ELEVATION. AIR TUBING SHALL BE TERMINATED AND CAPPED AT WELL HEAD.
- 6. WATER METERS PROVIDE TWO (2) 2" AND ONE (1) 3" OCTAVE ULTRASONIC METERS, OR EQUAL. METERS MUST CONFORM TO AWWA STANDARD C715-18.
- 7. PRESSURE GAUGES AND VACUUM/PRESSURE GAUGES SHALL HAVE A RANGE OF 0 - 200 P.S.I. AND A 3 1/2" DIAL MIN.
- 8. ALL PIPES, FITTINGS, VALVES, AND WATER SUPPLY FACILITIES SHALL BE NSF 60 OR 61 CERTIFIED AS APPLICABLE. FILTER UNITS SHALL BE NSF 53 CERTIFIED AS APPLICABLE. UV UNITS SHALL BE NSF 55 CERTIFIED AS APPLICABLE.

- 8. BOOSTER PUMP DISCHARGE PRESSURE SETTINGS (ADJUST AS NEEDED AFTER START—UP): = 88 P.S.I. PRESSURE RELIEF VALVE SETTING = 100 P.S.I. (ON PUMP DISCHARGE SIDE)
- 9. USE WATTS NO. 909 SERIES 3/4" BACKFLOW PREVENTER AND APOLLO DCLF 4A SERIES DOUBLE CHECK VALVE 4" BACKFLOW PREVENTER
- 10. BOOSTER PUMP STATION, CONTROL PANEL AND VFDS SHALL BE A SKID MOUNTED PACKAGE. USE GOULDS AQUAFORCE e-MT PACKAGE 2-STAGE DUPLEX VARIABLE SPEED SYSTEM WITH MODEL V2VHE4K20E PUMPS, 15 H.P., 3500 RPM. W/ 3-PHASE, 460V MOTORS, OR EQUAL. THE STATION SHALL BE CAPABLE OF SUPPLYING 205 GPM AT 190' TDH. CONSTANT PRESSURE SHALL BE MAINTAINED ON THE DISCHARGE (88 PSI).
- 11. PRESSURE TRANSMITTER EMERSON ROSEMOUNT MODEL 2088 LOW POWER PRESSURE TRANSMITTER, OR EQUAL. TRANSMITTER SHALL BE CAPABLE OF READING INCHES OF WATER, AND SHALL BE CAPABLE OF WALL MOUNTING.
- 12. METERING PUMPS PROVIDE TWO (2) PROMINENT MODEL GMXA1602NPE9 METERING PUMPS, OR EQUAL. ONE (1) PUMP SHALL BE A SPARE ALSO, PROVIDE ONE (1) MINIMUM 50 GALLON CHEMICAL TANK AND ADEQUATE TUBING TO OPERATE PUMP. ALSO PROVIDE ONE (1) 1/2" IN-LINE ANTISIPHON VALVE BETWEEN THE DISCHARGE OF THE PUMP AND THE INJECTION POINT.
- 13. FIRE STORAGE TANK PROVIDE AND ERECT A CST INDUSTRIES, INC. AQUASTORE BOLTED STEEL TANK, 314,100 GALLON MINIMUM CAPACITY, OR EQUAL TANK SHALL CONFORM TO AWWA STANDARD D103 AND C652. FOUNDATION DESIGN SHALL BE SUPPLIED BY THE CONTRACTOR OR THE MANUFACTURER, AND SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.
- 14. PRESSURE RELIEF VALVES SHALL BE EMERSON 918 W/ 1" ORIFICE, OR EQUAL

- 15. POTABLE STORAGE TANK PROVIDE AND ERECT A CST INDUSTRIES, INC. AQUASTORE BOLTED STEEL TANK, 14,950 GALLON MINIMUM CAPACITY, OR EQUAL TANK SHALL CONFORM TO AWWA STANDARD D103 AND C652. FOUNDATION DESIGN SHALL BE SUPPLIED BY THE CONTRACTOR OR THE MANUFACTURER, AND SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.
- 16. FIRE PUMP SHALL BE PENTAIR AURORA PUMP MODEL 10-481-18D, 1770 RPM WITH DIESEL ENGINE DRIVE, COMPLETE WITH PUMP CONTROLLER, OR EQUAL THE PUMP SHALL BE CAPABLE OF DELIVERING 4,250 GPM AT 210' TDH. DISCHARGE PRESSURE SHALL BE 96 PSI, AND THE PUMP SYSTEM SHALL CONFORM TO NFPA 20 STANDARDS. JOCKEY PUMP TO BE PROVIDED AS APPLICABLE TO MAINTAIN SYSTEM PRESSURE.
- 17. SPECIFIED FIRE PUMP INCLUDES AIR RELEASE VALVE. PRESSURE RELIEF NOT INCLUDED, EMERSON 918 W/ 1" ORIFICE MAY BE USED. COORDINATE SET PRESSURE WITH PUMP MANUFACTURER. BOTH MOUNTED ON PUMP CASE, MAY REQUIRE ADDITIONAL PIPING NOT SHOWN ON DRAWINGS.
- 18. FILTRATION UNITS SHALL BE HARMSCO MUNICIPAL MODEL MUNI 90 MP WITH PLEATED MICROGLASS CARTRIDGE FILTERS. INCLUDES 1/4" FNPT PORT ON INLET AND OUTLET FOR SAMPLE AND PRESSURE GAUGE (SAMPLE AND PRESSURE GAUGE BY OTHERS)
- 19. CARTRIDGES TO BE REMOVED AND REPLACED ONCE PRESSURE DIFFERENTIAL CALLS FOR REPLACEMENT. FILTER BACKWASH IS NOT REQUIRED.
- 20. ULTRAVIOLET DISINFECTION UNITS SHALL BE UV PURE TECHNOLOGIES, INC. HALLET 1000P UNITS, OR EQUAL. DESIGN AS SHOWN IS FOR THREE UNITS RATED AT 19 GPM EACH AT 95% UVT. ONE UNIT IS INTENDED TO BE AN IN-LINE SPARE. PROVIDE AN INTENSITY METER W/ READOUT AND AN AUDIBLE ALARM. ALSO PROVIDE A SOLENOID VALVE TO SHUT DOWN FORWARD FLOW TO SYSTEM IF INADEQUATE DISINFECTION IS ALARMED.
- 21. BOOSTER SKID SYSTEM TO BE SUPPLIED WITH HYDRO-PNEUMATIC TANK OF AQEQUATE SIZE TO LIMIT THE EFFECTS OF WATER HAMMER. SIZING TO BE BY THE MANUFACTURER.
- 22. BOOSTER SKID SYSTEM TO BE SUPPLIED WITH A PRESSURE TRANSDUCER TO SENSE THE PRESSURE IN THE DISCHARGE LINE AND CONTROL THE MOTOR SPEED OF THE PUMPS TO MAINTAIN CONSTANT DISCHARGE PRESSURE.



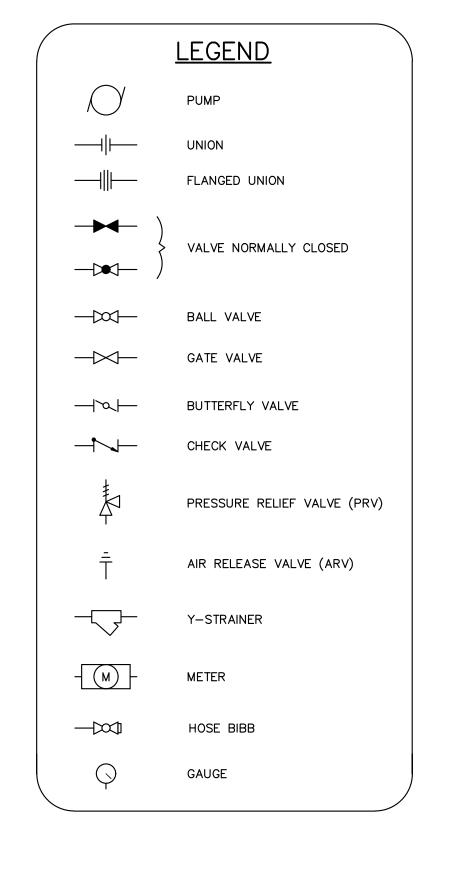
- 1. WELL No. OW-3 TO BE EQUIPPED WITH GOULDS MODEL 25GS50CBM, 26 STAGE, 5 HP SUBMERSIBLE PUMP W/ 3 PHASE 460V MOTOR (4"). SET AT A MINIMUM DEPTH OF 500 FT., OR AS DETERMINED BY INSTALLER.
- 2. OW-3 CAPACITY DESIRED IS 30 GPM AT 331 FT. TDH.
- 3. WELL No. NW-4 TO BE EQUIPPED WITH GOULDS MODEL 25GS50CBM, 26 STAGE, 5 HP SUBMERSIBLE PUMP W/ 3 PHASE 460V MOTOR (4"). SET AT A MINIMUM DEPTH OF 400 FT., OR AS DETERMINED BY INSTALLER.
- 4. NW-4 CAPACITY DESIRED IS 30 GPM AT 280 FT. TDH.
- 5. USE A 6" ID BAKER MONITOR PS STANDARD INDUSTRIAL PITLESS UNIT FOR: OW-3: XPS67NBWE24T4 NW-4: XPS67NBWE23T3
- 6. EACH WELL SHALL BE ENCLOSED INSIDE OF A 8' HIGH CHAIN LINK FENCE WITH LOCKABLE GATE.



WELL HEAD DETAIL

NOTE:

WELL PUMPS WILL BE CONTROLLED BY RADIO SIGNAL FROM REMOTE PUMP BUILDING. LOCATE ANTENNA ON POLE AT WELL SITES AND WIRE TO LOCAL PUMP STARTERS.



FLOW DIAGRAM NOT TO SCALE

DRAWING NOTES:

NOTES:

THE DOCUMENTS CONTAINED HEREIN ARE BEING SUBMITTED FOR APPROVAL BY A PUBLIC AGENCY (OR AGENCIES). THESE DOCUMENTS ARE CONSIDERED PRELIMINARY AND NOT IN FINAL FORM UNTIL THE DOCUMENTS ARE REVIEWED AND APPROVED BY THE APPLICABLE PUBLIC AGENCY (OR AGENCIES). THESE DOCUMENTS MAY BE REVISED TO REFLECT RESOLUTION OF COMMENTS BY ANY AGENCY PRIOR TO FINAL ACTION BY THE AGENCY (OR AGENCIES). ADDITIONAL SUBMISSIONS OF THESE DOCUMENTS IS POSSIBLE.

TO PREVENT BACKFEED/OVERFLOW OF THE POTABLE WATER STORAGE TANK.

5. WHEN FILLING THE FIRE STORAGE TANK WITH THE WELLS, THE CHEMICAL

6. THE FIRE PROTECTION SYSTEM SHOWN IS PRELIMINARY AND FOR GENERAL

INFORMATIONAL PURPOSES ONLY. FINAL FIRE SYSTEM DESIGN TO BE COMPLETED

BY OTHERS ONCE MORE INFORMATION IS KNOWN ABOUT THE ACTUAL SYSTEM REQUIREMENTS.

4. WHEN FILLING THE FIRE STORAGE TANK WITH THE WELLS, THE GATE

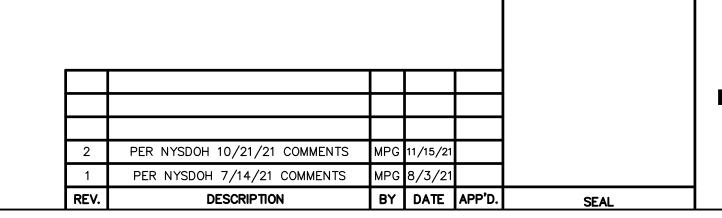
VALVE ON THE POTABLE WATER STORAGE TANK MUST BE CLOSED TO

PREVENT OVERFLOW OF THE POTABLE WATER TANK.

FEED PUMPS ARE TO BE SHUT DOWN.

WARNING: IT IS A VIOLATION OF THE STATE REGISTRATION LAW FOR ANY PERSON TO IN ANY WAY ALTER THIS DOCUMENT BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THAT PERSON IS ACTING UNDER THE SPECIFIC DIRECTION OF THE LICENSED PROFESSIONAL ENGINEER.

PRELIMINARY-**NOT FOR CONSTRUCTION**



FIRE PUMP SYSTEM SHALL ALSO INCLUDE A JOCKEY PUMP TO

MAINTAIN FIRE SYSTEM PRESSURE

MILNES MILNES ENGINEERING INC. PLANNING • DESIGNING • ENGINEERING SURVEYING • CONSTRUCTION SERVICES 12 FREAR HILL ROAD

TUNKHANNOCK, PA 18657

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WATER SUPPLY SCHEMATIC COMMERCIAL CAMPUS AT FIELDS CORNER PUBLIC WATER SUPPLY PERMIT TOWN OF SOUTHEAST, PUTNAM COUNTY, NY

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