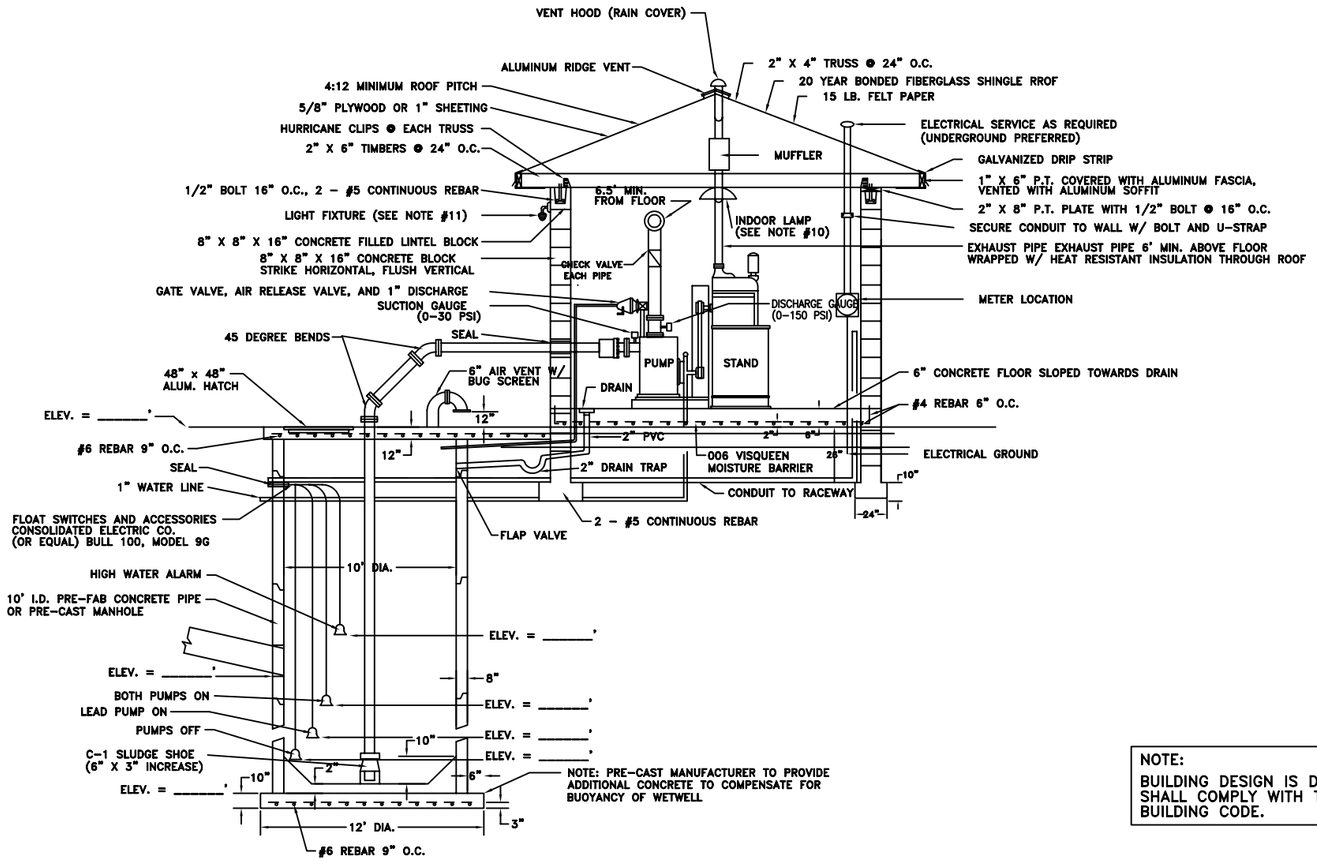
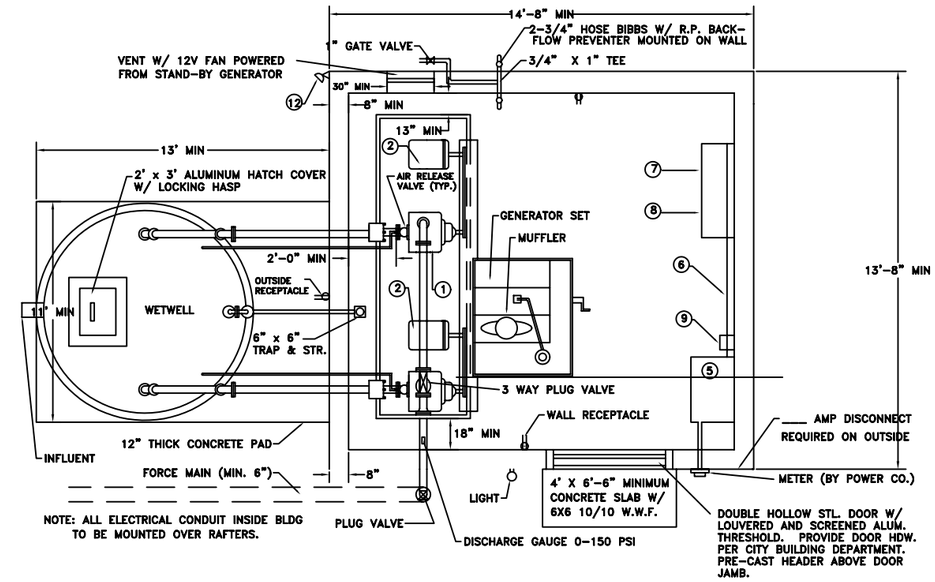


PROFILE
N.T.S.



PLAN
N.T.S.

NOTE:
BUILDING DESIGN IS DIAGRAMMATIC ONLY. DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE MOST RECENT EDITION OF THE STANDARD BUILDING CODE.

GENERATOR SET

MAKE:_____ MODEL: _____ PHASE: 3 HERTZ: 60 VOLTS:_____ WIRE: 4 RATED: _____ KW STANDBY, _____KVA _____RPM _____

TO INCLUDE THE FOLLOWING:

_____GALLON FUEL TANK
FUEL LEVEL GAUGE
FILL/VENT CAP
FUEL SUPPLY PORT
FUEL RETURN PORT

ELECTRICAL PACKAGE TO INCLUDE:

(1) _____ AMP LOAD CENTER
50 FEET OF 2/OT REQUIRED CABLE
(1) _____ AMP PLUG – _____

START UP AND ONSITE TESTING:

START UP NOT TO EXCEED 4 HOURS
OPERATIONAL TRAINING NOT TO EXCEED 4 HOURS

ENCLOSED ACCESSORIES:

SILENCER MOUNTING KIT
CRITICAL SILENCER

COOLING SYSTEM:

BLOCK HEATER 120 VOLT 1500 WATT
UNIT MOUNTED RADIATOR 40 DEG. C

FUEL SYSTEM:

FLEX FUEL LINES
BASE TANK 100 GAL. SINGLE WALL, INTEGRAL IN TRAILER

CIRCUIT BREAKER/ACCESSORIES

_____ AMP U.L. _____ VOLT CIRCUIT BREAKER

CONTROLLER/INSTRUMENT PANEL
AC AMMETER, VOLTMETER, 2-1/2", 2%, AC FREQUENCY METER, 2-1/2", .5%
AM/VM SELECTOR SWITCH, 7 POSITION
PANEL ILLUMINATION LIGHTS, AUDIBLE ALARM WITH SILENCE SWITCH
VOLTAGE ADJUSTMENT POTENTIOMETER
OIL PRESSURE, WATER TEMP. GAUGE, RUNNING TIME METER, DC VOLTMETER
AUTOMATIC STARTING CONTROLS, COOL DOWN TIMER, CYCLE CRANKING,
OVERVOLTAGE SENSING

SAFETY SHUTDOWN, INDICATING LIGHTS AND ALARMS FOR THE FOLLOWING:
LOW OIL PRESSURE
OVERSPEED
OVERCRANK
HIGH ENGINE TEMPERATURE
AUXILIARY / LOW WATER LEVEL / OVERVOLTAGE

ELECTRICAL ACCESSORIES:
STARTING BATTERY/BATTERIES 12 VOLT
BATTERY RACK AND CABLES
VOLTAGE 4REGULATOR 2%
CHARGER TRICKLE 2 AMP.

ADDITIONAL ACCESSORIES:
ISOLATORS
WARRANTY 1 YEAR
OIL DRAIN LINE
O/M MANUALS 3 SETS
OIL INITIAL FULL
ANTI-FREEZE INITIAL FILL 50/50

GENERAL:

A. CONTRACTOR MUST SUBMIT SPECIFICATIONS, SHOP DRAWINGSS OPERATION AND MAINTENANCE MANUALS FOR ALL ELECTRICAL, MECHANICAL AND FABRICATED COMPONENTS OF THE SYSTEM.

NOTE: THREE (3) OPERATION AND MAINTENANCE MANUALS TO BE SUPPLIED BY THE CONTRACTOR.

B. WIRING, LIGHTS AND WALL RECEPTACLES SHALL BE #12 THWN.

C. EACH PUMP SHALL BE FURNISHED WITH A PRESSURE GAUGE (90–150 PSI) AND SUCTION GAUGE (30–0–30 PSI) AND EACH PUMP SHALL HAVE FITTINGS TO ACCOMODATE SUCH.

D. AREA SURROUNDING THE STATION AND WETWELL SHALL BE SODDED AND SUITABLY RESTORED TO PREVENT EROSION.

E. A 20 FOOT LONG COMMERCIAL GRADE FIBERGLASS EXTENSION LADDER SHALL BE PROVIDED.

BUILDING:

ALL MATERIALS AND WORKMANSHIP SHALL BE INSPECTED BY THE CITY OF SANFORD AND MEET ITS REQUIREMENTS, THE STANDARD BUILDING CODE, THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION, UNDERWRITER'S LABORATORY AND THE NATIONAL FIRE PROTECTION CODE.

PAINTING:

1. ALL PAINT SHALL BE APPROVED BY THE UTILITY DIRECTOR.
2. ALL PAINT SHALL BE APPLIED WITH A BRUSH OR ROLLER.
3. ALL COLORS SHALL BE SELECTED BY THE CITY.
4. EXTERIOR WALLS SHALL RECEIVE ONE COAT OF PRIMER AND TWO COATS OF MASONRY PAINT.
5. INTERIOR WALLS SHALL RECEIVE TWO COATS OF UTILITY UNDERCOATER AND ONE COAT OF UTILITY ENAMEL.
6. ALL EXPOSED PIPING (EXCEPT TAR-DIPPED PIPE), VALVES, METAL DOOR AND PUMP SHALL RECEIVE ONE COAT OF RUST-INHIBITIVE SHOP PRIMER AND TWO COATS OF ENAMEL (OUTDOORS) OR INTERIOR ENAMEL (INDOORS). EXPOSED TAR-DIPPED PIPE SHALL RECEIVE TWO COATS OF ENAMEL (OUTDOORS) OR INTEROL ENAMEL (INDOORS).
7. WOOD TRIM SHALL RECEIVE ONE COAT OF UNDERCOATER AND TWO COATS OF EXTERIOR TRIM ENAMEL.
8. CEILING SHALL RECEIVE ONE COAT OF UNDERCOATER.

ITEM:

1. PUMPS – GORMAN-RUPP T SERIES SELF-PRIMING CENTRIFUGAL WITH MOUNTING ARRANGEMENT AND BASES AS RECOMMENDED BY THE MANUFACTURER,_____HP,_____RPM.
2. OPERATING CONDITIONS:

POINT	GPM	TDH (FEET)
MIN.	0.0	
D.O.C.		
MAX.		

3. A RADIO TELEMETRY AND MONITORING SYSTEM SHALL BE INSTALLED TO CITY OF SANFORD SPECIFICATIONS.
4. SURGE CONTROL AND LIGHTNING ARRESTOR SHALL BE INSTALLED.

ELECTRICAL:

_____V. 3 PHASE, 60 CYCLE FOR PUMP MOTORS AND CONTROLS, 110V. SINGLE PHASE, 60 CYCLE FOR LIGHTING AND AUXILIARY RECEPTACLES. EACH LIGHT FIXTURE SHALL OPERATE BY AN INDIVIDUAL SWITCH. A MINIMUM OF (2) 110 VOLT WATERPROOF (GFCI) WALL RECEPTACLES ARE REQUIRED.

5. DISCONNECT – _____A,_____V, NEMA 1 AS REQUIRED.
6. RACEWAY 6" x 6" OR LARGER AS REQUIRED.
7. CONTROL PANEL WITH COMBINATION STARTERS (2).
8. PUMP CONTROLLER – HFO SERIES FOR 2 PUMPS, AUTOMATIC ALTERNATION OVERRIDE WITH SIMULATED TEST SWITCH, H.O.A. SWITCH, HIGH ALARM AND LOW VOLTAGE (24 VAC) SENSOR CIRCUIT W/ ELAPSED TIME METERS.
9. LOAD CENTER – 120 V, 125 AMP, INCLUDE 1 – 30 AMP AND 2 – 15 AMP BREAKERS.
10. VAPOR TIGHT INCANDESCENT LIGHT WITH ALL WHITE SLOTTED DOME REFLECTOR. USE 120 VOLT SOFT WHITE LAMP.
11. OUTSIDE INCANDESCENT LIGHT FIXTURE WITH WALL BRACKETS, 100 WATT.
12. INCANDESCENT FLOOD LIGHT WITH SATIN ALUMINUM FINISH MOUNTED ON #51 CORNER BOX, 150 WATT.

ABOVE GROUND PUMP STATION–PLAN, SECTION, AND NOTES

CITY OF SANFORD	1999	FIG. 303