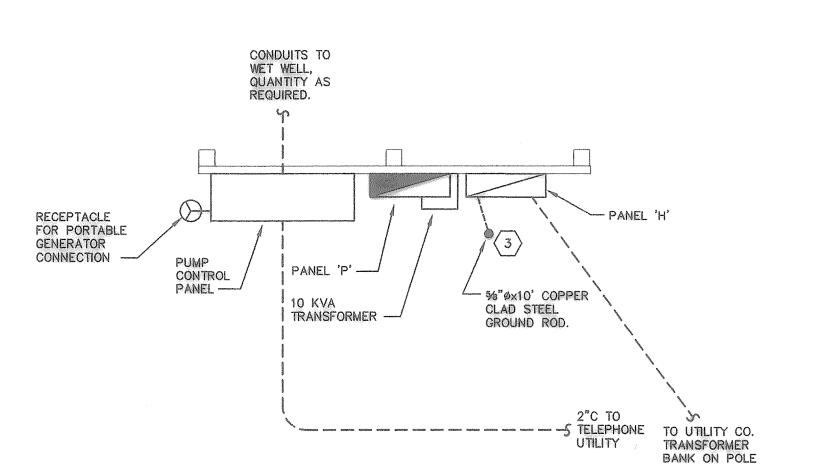


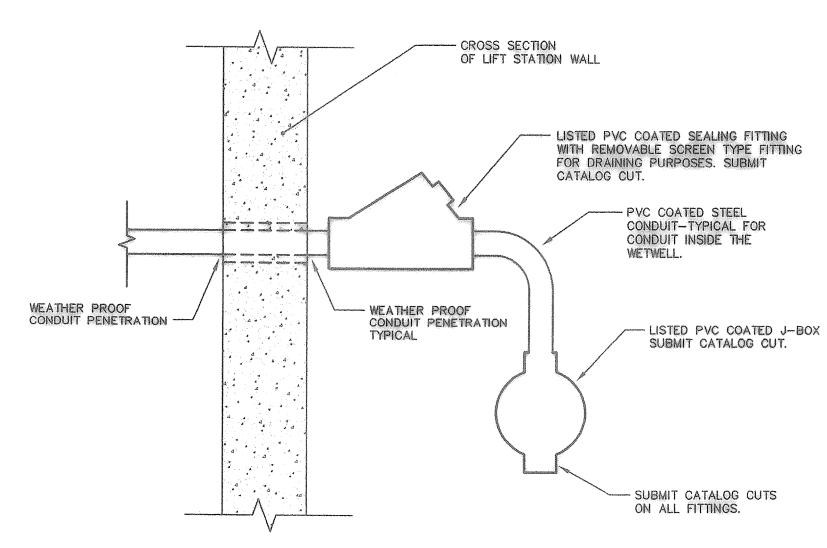
LIFT-STATION HAZARDOUS AREA CLASSIFICATION



ELECTRICAL EQUIPMENT RACK PLAN SCALE: NOT TO SCALE

ELECTRICAL NOTES INDICATED BY SYMBOL: '(#)

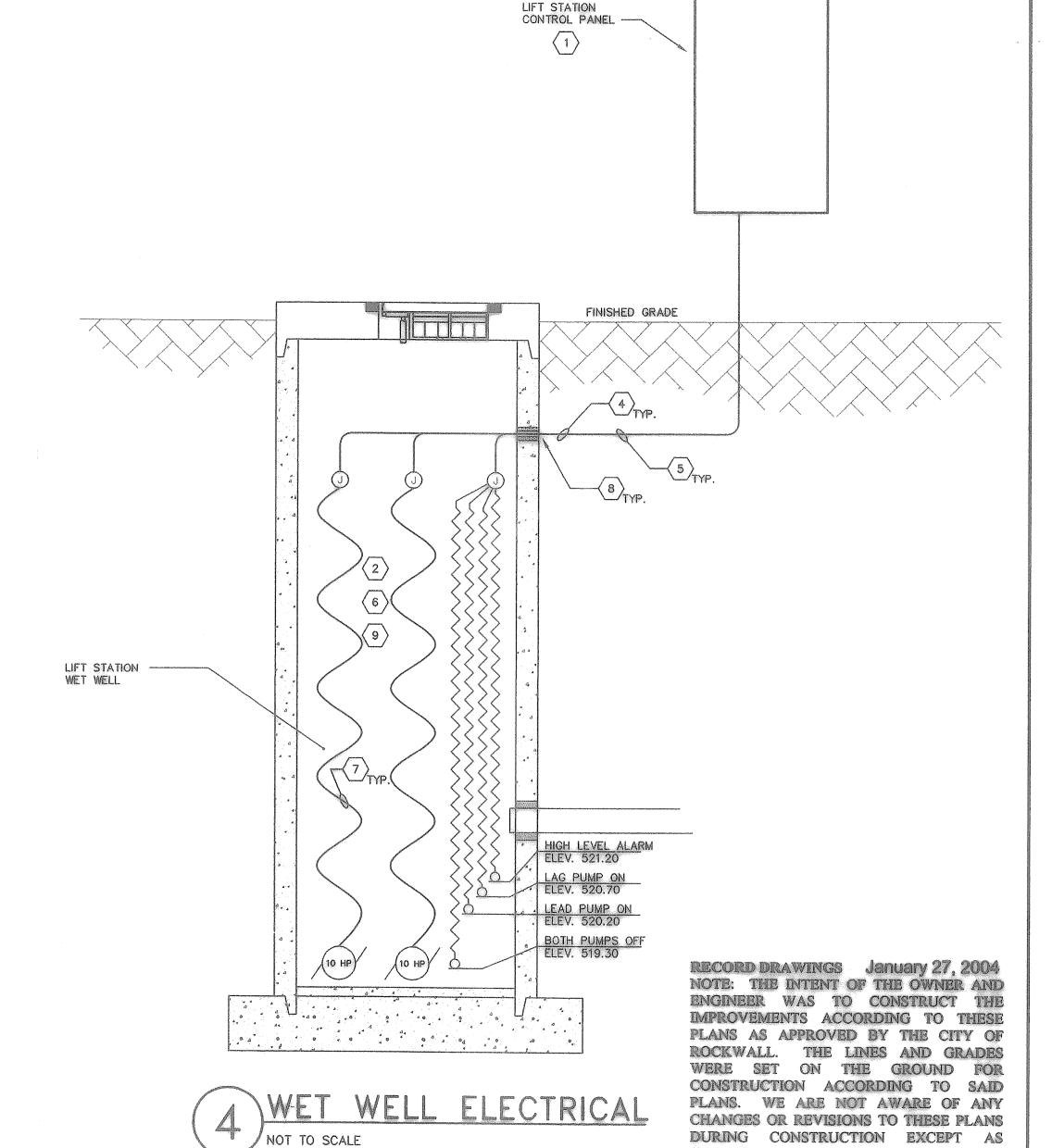
- THE LIFT STATION CONTROL PANEL SHALL COME COMPLETE WITH ALL CONTROLS, STARTERS AND OVERCURRENT DEVICES. MAKE ALL REQUIRED ELECTRICAL CONNECTIONS. REFER TO SHEET E4 FOR CONTROL
- 2 COMBUSTIBLE GAS DETECTION SYSTEM PER NFPA 820, CHAPTER 5 AND TABLE 2. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A 24 VOLT COMBUSTIBLE GAS DETECTION SYSTEM IN THE WET WELL OF THE LIFT STATION. THE DETECTION SYSTEM SHALL BE CONNECTED TO THE LIFT STATION CONTROL PANEL AUDIO/VISUAL ALARM. SUBMIT SHOP DRAWING AND CATALOG INFORMATION.
- MAKE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO GROUND ROD VIA EXOTHERMIC WELD. CONNECTION SHALL BE BELOW GRADE. CONNECT SECONDARY GROUND FROM DRY TYPE TRANSFORMER TO THIS ELECTRODE.
- 4 ALL CONDUIT OUTSIDE THE WET WELL SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. NO EXCEPTIONS. CONDUIT LOCATED INSIDE THE WET WELL AND BETWEEN WET WELL AND CONTROL PANEL SHALL BE PVC COATED STEEL CONDUIT. ALL EXPOSED CONDUIT THREADS SHALL BE FIELD COATED TO PREVENT CORROSION IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CONDUIT MANUFACTURER.
- 5 ALL CONDUIT IN CONTACT WITH THE EARTH SHALL BE WRAPPED WITH TAPE AND OBTAIN A 50% OVERLAP.
- 6 ALL WIRING IN THE LIFT STATION WET WELL SHALL BE CLASSIFIED AS A CLASS 1, DIVISION 2, GROUP D AREA AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLE 501. THIS SHALL INCLUDE ALL ALARM, SIGNALING, REMOTE CONTROL AND COMMUNICATION SYSTEMS, REGARDLESS OF VOLTAGE.
- 7 PUMP CABLES SHALL BE PROVIDED BY THE PUMP SUPPLIER. NO SPLICING SHALL BE PERMITTED IN THE CABLING BETWEEN THE PUMP CONTROL PANEL AND THE DEVICES LOCATED WITHIN THE WET WELL. THIS SHALL INCLUDE CABLES TO PUMPS AND CABLES TO FLOATS. PUMP CABLES SHALL INCLUDE POWER CONDUCTORS AND LEAK DETECTION CONDUCTORS.
- 8 REFER TO DETAIL 2/E2 FOR TYPICAL CONDUIT INSTALLATION INTERIOR TO LIFT STATION.
- 9 REFER TO DETAIL 1/E2 FOR HAZARDOUS AREA CLASSIFICATION FOR LIFT-STATION.



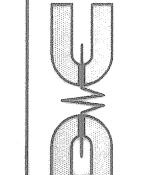
NOTE: 1. THE INTERIOR OF THE LIFT STATION WET-WELL IS CLASSIFIED AS A CLASS 1, DIVISION 2. GROUP D AREA.

- NO CONDUIT FITTINGS SHALL BE ALLOWED BETWEEN SEALING FITTING IN CLASSIFIED AREA AND UNCLASSIFIED AREA.
- 3. LOCATION OF CONDUIT PENETRATION INTO THE WETWELL SHALL BE LOCATED TO AVOID INSTALLATION WITHIN 12" VERTICALLY OF JOINTS.

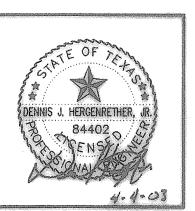
TYPICAL WET WELL STATION CONDUIT INSTALLATION

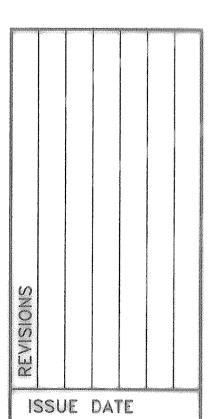


NOTED ON THE PLANS.









3-11-03

SHEET NO.

PLATE NO. 8%