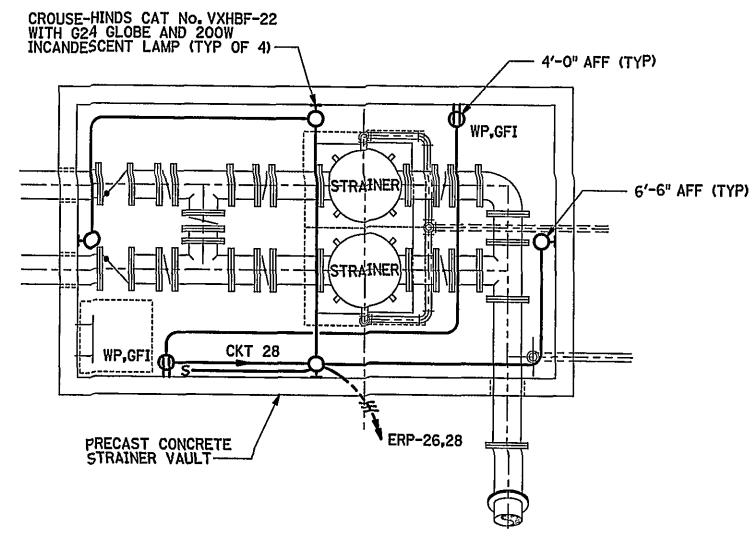
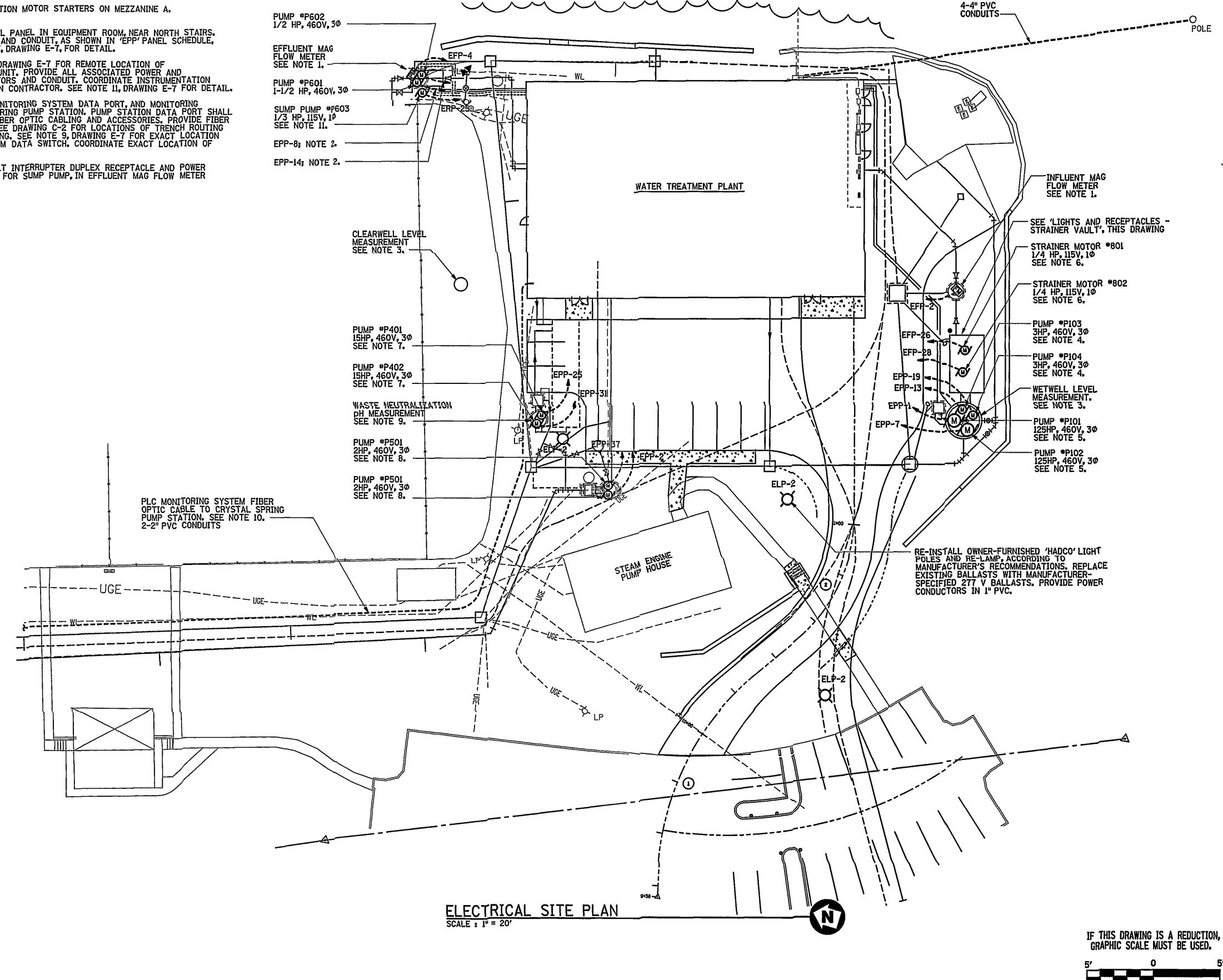
NOTES MEMBRANE FILTRATION CONTRACTOR SHALL FURNISH MAG FLOW METERS. INSTALL FLOW METERS AND PROVIDE ALL ASSOCIATED POWER AND INSTRUMENTATION CONDUCTORS AND CONDUIT. COORDINATE INSTRUMENTATION WITH MEMBRANE FILTRATION CONTRACTOR. 7. TO #P401 & #P402 COMBINATION MOTOR STARTERS ON MEZZANINE A. SEE NOTE 2, DRAWING E-8. 8. TO #P501 & #P502 CONTROL PANEL IN EQUIPMENT ROOM, NEAR NORTH STAIRS. PROVIDE ALL CONDUCTORS AND CONDUIT, AS SHOWN IN 'EPP' PANEL SCHEDULE, DRAWING E-10. SEE NOTE 7, DRAWING E-7, FOR DETAIL. 2. TO #P601 & #P602 COMBINATION MOTOR STARTERS IN EQUIPMENT ROOM, BEHIND CIP TANKS. SEE NOTE 5, DRAWING E-7, FOR DETAIL. 9. PROVIDE pH SENSOR. SEE DRAWING E-7 FOR REMOTE LOCATION OF TRANSMITTER/INDICATION UNIT. PROVIDE ALL ASSOCIATED POWER AND INSTRUMENTATION CONDUCTORS AND CONDUIT. COORDINATE INSTRUMENTATION WITH MEMBRANE FILTRATION CONTRACTOR. SEE NOTE 11, DRAWING E-7 FOR DETAIL. 3. PROVIDE TWO LEVEL SENSOR/TRANSMITTER UNITS, FOR WETWELL AND CLEARWELL LEVEL MEASUREMENT. THE UNIT SHALL BE MILLTRONICS, MODEL PROBE, 4-20 mA OUTPUT SCALED 0.8 - 16.4 FEET, 24 Vdo POWERED. PROVIDE ALL POWER AND INSTRUMENTATION CONDUCTORS AND CONDUIT. COORDINATE INSTRUMENTATION WITH MEMBRANE FILTRATION CONTRACTOR. SEE DRAWING E-7 FOR LOCATION OF PLC AND CONTROL ROOM. FIELD COORDINATE EXACT LOCATION OF CLEARWELL LEVEL MEASUREMENT FLANGE. SEE DRAWING C-6 FOR INSTALLATION DETAIL. 10. PROVIDE A SINGLE PLC MONITORING SYSTEM DATA PORT, AND MONITORING COMPUTER AT CRYSTAL SPRING PUMP STATION. PUMP STATION DATA PORT SHALL BE CONSTRUCTED USING FIBER OPTIC CABLING AND ACCESSORIES. PROVIDE FIBER OPTIC CABLE IN 2" PVC. SEE DRAWING C-2 FOR LOCATIONS OF TRENCH ROUTING AND PUMP STATION BUILDING. SEE NOTE 9, DRAWING E-7 FOR EXACT LOCATION OF PLC MONITORING SYSTEM DATA SWITCH. COORDINATE EXACT LOCATION OF DATA PORT WITH OWNER. 4. TO #P103 & #P104 COMBINATION MOTOR STARTERS ON MEZZANINE B. SEE NOTE 3, DRAWING E-8, FOR DETAIL. 5. TO #P101 & #P102 VARIABLE FREQUENCY DRIVES ON MEZZANINE B. SEE NOTE 5, DRAWING E-4, FOR DETAIL. 11. PROVIDE ONE GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE AND POWER CONDUCTORS AND CONDUIT FOR SUMP PUMP, IN EFFLUENT MAG FLOW METER VAULT, AS INDICATED. 6. TO STRAINER MOTORS #801 & #802 CONTROL PANEL IN ROOM 105. PROVIDE ALL CONDUCTORS AND CONDUIT, AS SHOWN IN 'EFP' PANEL SCHEDULE, DRAWING E-11. SEE NOTE 3, DRAWING E-7, FOR DETAIL. CRYSTAL SPRING PS ROOM 202 **ROOM 107** MONITORING COMPUTER MONITORING COMPUTER MONITORING COMPUTER ETHERNET SWITCH PLC MONITORING SYSTEM BLOCK DIAGRAM CROUSE-HINDS CAT No. VXHBF-22 WITH G24 GLOBE AND 200W INCANDESCENT LAMP (TYP OF 4) -- 4'-0" AFF (TYP)



LIGHTS AND RECEPTS - STRAINER VAULT NO SCALE: 174" = 1'-0"



RECORD DRAWING

DATE: <u>MAY 1, 2003</u>

Wiley & Wilson
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An Employee-Owned Company

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757-222-1500

DESIGNED DRAWN SAB SAB SAB WATER TREATMENT PLANT FOR THE CITY OF ROANOKE, VIRGINIA

CHECKED REVIEWED MKJ CITY OF ROANOKE, VIRGINIA

COMM. NO. 200171.01 REFERENCE ELECTRICAL

CADD NO. 200171040.dgn

DATE AUG 26, 2001 DWG. NO. E-9 SHEET NO. 70 OF 72 REV.

 $\frac{1}{4}^{\mu} = 1' - 0^{\mu}$