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ABBREVIATIONS

ALTERNATING CURRENT CONTROL RELAY "A" (

ANALOG INPUT (PLC)

CONTROL RELAY "A" (TYP)
ABOVE FINISHED FLOOR
ABOVE FINISHED GRADE

AMPERE INTERRUPTING CAPACITY

ALUMINUM
ANALOG OUTPUT (PLC)
ASYMMETRICAL
AUTOMATIC TEMPERATURE CONTROL

AC ACR AFF AFG

NORMALLY CLOSES

NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE OVERHEAD

ON-OFF-AUTOMATIC OUTSIDE STEM AND YOKE VALVE (FA SYSTEM)

NEGATIVE

NEUTRAL

OVERLOAD

SINGLE LINE DIAGRAM

WIRING DEVICES

GFi 20 AMPERE, 120 VOLT DUPLEX

INDICATES INCHES AFF MOUNTING HEIGHT

WEATHERPROOF

 \Rightarrow

#3

SAFETY DISCONNECT SWITCH TRANSFORMER CT CURRENT TRANSFORMER **→** {Fi POTENTIAL TRANSFORMER

POWER

DESCRIPTION

FUSE AMPERE RATING

200/3 UNFUSED SAFETY SWITCH, RATING AS NOTED

POLES

FUSED SAFETY SWITCH, 30/15/3RATING AS NOTED

-- POLES

AMPERES

GENERAL NOTES 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE

ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CURRENT NATIONAL ELECTRICAL CODE.

2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY CNLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURES. CONDUITS SHALL BE CONCEALED IN WALLS, AND ABOVE ANY SUSPENDED CEILINGS WHERE APPUCABLE. EXPOSED CEILING CONDUITS SHALL BE PERMITTED WHERE SUSPENDED CEILINGS ARE NOT USED. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.

3. CONDUITS SHALL BE PROPERLY TERMINATED WITH NEAT CONNECTIONS TO ALL ASSOCIATED

4. CONTROL AND INSTRUMENTATION CONDUIT SIZES AND NUMBER OF CONDUCTORS ARE TO BE DETERMINED FROM SCHEMATC DIAGRAMS, INSTRUMENTATION DIAGRAMS, AND/CR SPECIFICATIONS, IF NOT DIRECTLY SHOWN ON POWER PLANS. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL AND INSTRUMENTATION COUPPMENT. MODIFICATIONS REVIEWED BY THE ENGINEER WITH NO EXCEPTIONS TAKEN, MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND MITHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. EACH CONTROL AND INSTRUMENTATION CONDUIT SHALL ALSO CONTAIN 10 SPECIFICATIONS. FOR CONDUCTORS, WITH A MINIMUM OF TWO SPARES, UP TO THE LIMIT OF CONDUIT FILL AS SPECIFICD BY THE NATIONAL ELECTRICAL CODE. INSTRUMENTATION SHELDED CABLES SHALL BE INSTALLED IN ROS CONDUIT SPRANET FROM OTHER PROMED WEBLIE.

5. EACH CONDUIT TO CARRY GROUND WIRE(S) ACCORDING TO SPECIFICATION #16450, IN ADDITION TO NUMBER OF CONDUCTORS SHOWN ON DRAWINGS OR PER NOTE 4 ABOVE. GROUNDING MUST CONFORM TO ARTICLE 250 OF CURRENT NATIONAL ELECTRICAL COCE.

7. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT

8. ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INSIDE OF EXTERIOR WALLS ABOVE GRADE, OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED TO

9. ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. COORDINATE LOCATIONS WITH PROCESS PIPING, ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE MANUFACTURERS EQUIPMENT REQUIREMENTS WITH SPACE AVAILABLE. FINAL CONTROL SHALL COORDINATED BE SEED COORDINATED.

10. ALL FIELD CONTROL CONDUCTORS WILL TERMINATE AT INDIVIDUAL TERMINAL BLOCKS WITHIN THE CONTROL ENCLOSURE. SERIES AND PARALLEL CONNECTION OF FIELD CONTROL CONDUCTORS WILL BE MADE ONLY AT CONTROL PANEL OR MOTOR CONTROL CENTER TERMINAL

11. GROUND ALL CONDUCTOR SHIELDS AT PANEL ONLY - DO NOT GROUND SHIELDS AT BOTH

A - AT LOCATIONS WHERE VAPORTIGHT LIGHTING FIXTURES AND/OR WATERTIGHT RECEPTACLES

15. COORDINATE ELECTRICAL DEVICES WITH OFFICE FURNITURE ARRANGEMENT, WHERE

16. CONTRACTOR SHALL PROVIDE ALL DISCONNECTS AND SERVICE RECEPTACLES FOR HVAC AS REQUIRED BY NEC.

17. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, EQUIPMENT, AND CONTROL DEVICES AS INDICATED BY SCHEMATICS, SINGLE LINE DIAGRAMS, SCHEDULES, PLANS, SPECIFICATIONS, AND VENDOR DOCUMENTATION TO PROVIDE A COMPLETE WORKING SYSTEM. SINGE NOT ALL HOME RUNS ARE SHOWN ON PLAN, THE CONTRACTOR SHALL REFERENCE ALL SINGLE LINE AND SCHEMATIC DIAGRAMS, SCHEDULES, AND VENDOR DOCUMENTATION TO DETERMINE CONDUIT AND WIRING PROLIBERATIC

19. EXACT NUMBER, LOCATION, HORSEPOWER, VOLTAGE, AND PHASE OF ALL MOTORS AND DEVICES ASSOCIATED WITH THE GRINDER SYSTEM AND PLANT WATER, AND OTHER EQUIPMENT SYSTEMS AS APPLICABLE, PROVIDED UNDER THIS CONTRACT SHALL BE COORDINATED WITH THE ACTUAL EQUIPMENT SUPPLIER. CONDUIT AND WIRING TO BE PROVIDED SHALL BE ADJUSTED ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER.

22. CONTRACTOR SHALL PROVIDE A COMPLETE WORKING OPERATING SYSTEM IN ACCORDANCE

23. HANDHOLES SHALL BE PREMANUFACTURED ASSEMBLES SEPARATED FOR 480V AND 120V POWER. POWER CONDUIT UNDERGROUND SHALL BE SCHEDULE 80 PVC WITH RCS FITTINGS ABOVE GROUND. RCS FITTINGS SHALL EXTEND 2'-6" BELOW GROUND. INSTRUMENTATION AND CONTROL HANDHOLES SHALL BE SEGREGATED FOR INSTRUMENTATION AND 120 VOLT CONTROL

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CHEC DATE APPR DATE BOOK PROJE SCALE

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