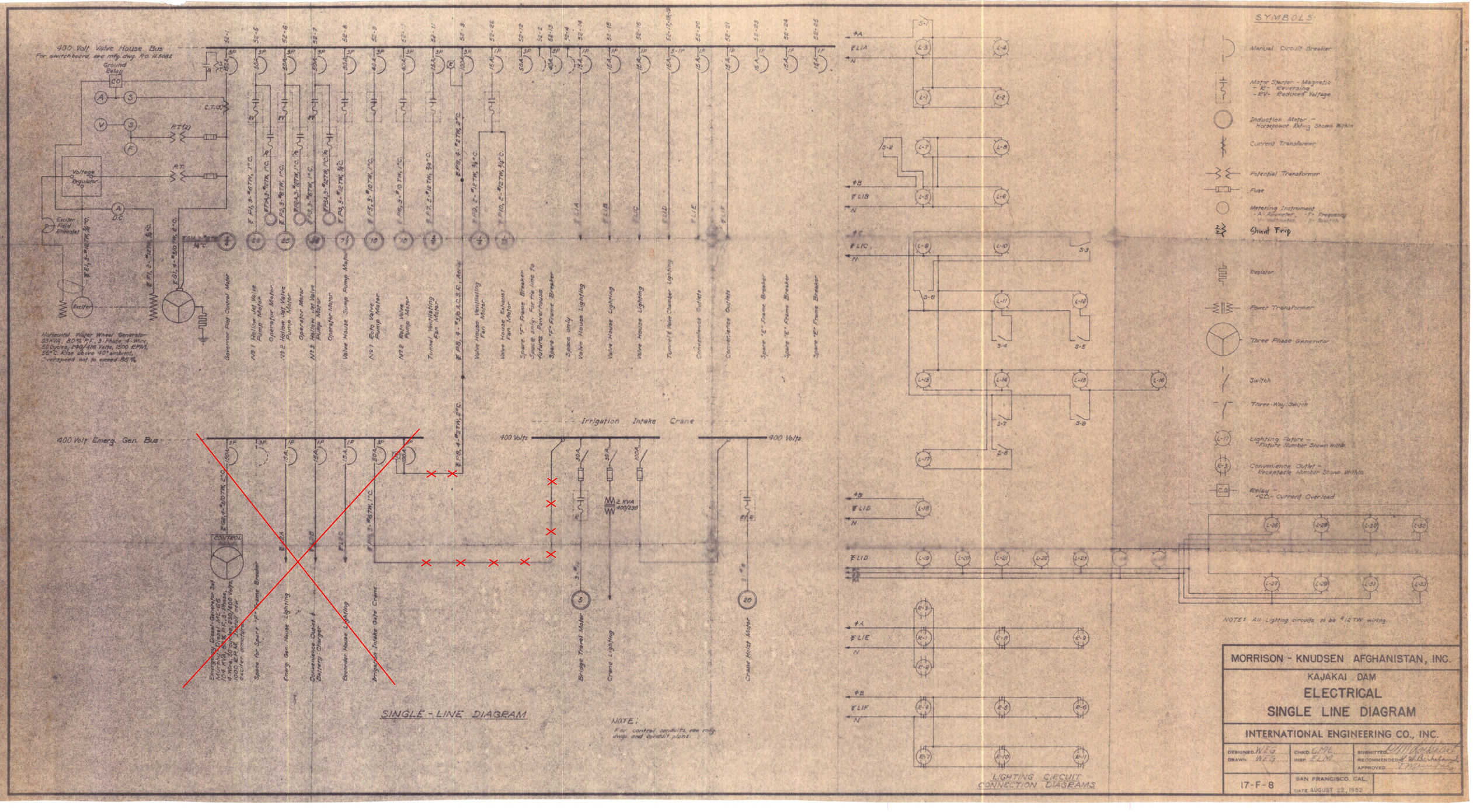
400 Volt Valve House Bus
For switchboard, see mfg. dwg. P.O. 11.5082
Ground Relay
Voltage Regulator
Exciter Field Rheostat
Exciter
Horizontal Water Wheel Generator 33 KVA, 80% P.F., 3-Phase 4-Wire, 50 Cycles, 240/416 Volts, 1500 RPM, 55°C. Rise above 40° ambient, Overspeed not to exceed 85%
Governor Pilot Control Motor
No 1 Hollow Jet Valve Pump Motor
Operator Motor
No 2 Hollow Jet Valve Pump Motor
Operator Motor
No 3 Hollow Jet Valve Pump Motor
Operator Motor
Valve House Sump Pump Motor
No 1 Roto Valve Pump Motor
No 2 Roto Valve Pump Motor
Tunnel Ventilating Fan Motor
Valve House Ventilating Fan Motor
Valve House Exhaust Fan Motor
Space "F" Frame Breaker
Space only. For tie line to future Powerhouse
Space "F" Frame Breaker
Space only
Valve House Lighting
Valve House Lighting
Valve House Lighting
Tunnel & Valve Chamber Lighting
Convenience Outlets
Convenience Outlets
Spare "E" Frame Breaker
Spare "E" Frame Breaker
Spare "E" Frame Breaker
400 Volt Emerg. Gen. Bus
Irrigation Intake Crane
400 Volts
400 Volts
2 KVA 400/230
Space for Spare "F" Frame Breaker
Emerg. Gen. House Lighting
Convenience Outlet & Battery Charger
Recorder House Lighting
Irrigation Intake Gate Crane
Bridge Travel Motor
Crane Lighting
Crane Hoist Motor
SINGLE-LINE DIAGRAM
NOTE:
For control conduits, see mfg. dwgs. and conduit plans.
SYMBOLS
Manual Circuit Breaker
Motor Starter - Magnetic
- R - Reversing
- RV - Reduced Voltage
Induction Motor - Horsepower Rating Shown Within
Current Transformer
Potential Transformer
Fuse
Metering Instrument
- A - Ammeter, - F - Frequency
- V - Voltmeter, - S - Switch
Shunt Trip
Resistor
Power Transformer
Three Phase Generator
Switch
Three-Way Switch
Lighting Fixture - Fixture Number Shown Within
Convenience Outlet - Receptacle Number Shown Within
Relay - C.O. - Current Overload
NOTE: All Lighting circuits to be #12 TW wiring.
LIGHTING CIRCUIT CONNECTION DIAGRAMS
MORRISON - KNUDSEN AFGHANISTAN, INC.
KAJAKAI DAM
ELECTRICAL
SINGLE LINE DIAGRAM
INTERNATIONAL ENGINEERING CO., INC.
DESIGNED W.E.G.
DRAWN W.E.G.
CHKD. C.M.L.
INSP. E.L.M.
SUBMITTED
RECOMMENDED
APPROVED
17-F-8
SAN FRANCISCO, CAL.
DATE AUGUST 22, 1952