



- ### ONE-LINE DIAGRAM ABBREVIATIONS
- BFV BUTTERFLY VALVE
 - BTIC(s) BEARING TEMPERATURE INDICATOR CONTROLLER(S)
 - C. CONDUIT
 - DH DISCHARGE HEADER
 - FT FLOW TRANSMITTER
 - GND. GROUND
 - LP LIGHTING PANEL
 - LT LEVEL TRANSMITTER
 - LTEU LEVEL TRANSMITTER ELECTRONIC UNIT
 - MCP MONITORING AND CONTROL PANEL
 - MP MONITORING PANEL
 - MSCP MOTOR STARTER CONTROL PANEL
 - PB PULL BOX
 - PP POWER PANEL
 - PT PRESSURE TRANSMITTER
 - SCADA SUPERVISORY CONTROL AND DATA ACQUISITION
 - 2-3/C#18 TWO 3-CONDUCTOR NUMBER 18 AMERICAN WIRE GAUGE SHIELDED INSTRUMENTATION CABLE
 - V VALVE
 - WP WEATHERPROOF

- ### NOTES
- Legend on sheet 40 to be referenced for applicable One-Line Diagram symbols.
 - Light switch to be installed inside south door of Control Building adjacent to existing light switches. Nameplate to be provided and installed above proposed light switch that states "Reservoir Area Lights."
 - Circuits to be connected to existing 30 amp spare circuit breaker in the bottom north corner of power panel.

ELECTRICAL ONE-LINE DIAGRAM

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	VOLTS	LAMPS	MOUNTING	REMARKS
A*	"DAY-BRITE" #WA142 OR "LITHONIA" #LB240A.	120	2-F40, T12 CW, FLUOR-ESCENT.	FIXTURE TO BE PENDANT MOUNTED FROM CEILING IN CONTROL BUILDING, 10-FEET ABOVE FINISHED FLOOR. FIXTURE TO REPLACE EXISTING INCANDESCENT AND FLUORESCENT FIXTURES.	FIXTURE TO BE U.L. LISTED AND TO INCLUDE ENERGY SAVING BALLAST, END PLATES, ACRYLIC LENS, AND HIGH-GLOSS, BAKED WHITE ENAMEL FINISH.
B*	"DAY-BRITE" #WA142 OR "LITHONIA" #LB240AEL.	120	SAME AS TYPE A.	SAME AS TYPE A.	SAME AS TYPE A AND INCLUSIVE OF EMERGENCY POWER PACK CAPABLE OF POWERING FIXTURE LAMP FOR 90 MINUTES MINIMUM UPON AC POWER FAILURE. POWER CIRCUITS TO BE WIRED AS REQUIRED TO ALLOW CONTINUOUS, UNINTERRUPTED POWER TO EMERGENCY POWER PACK.
C*	SAME AS TYPE A.	120	SAME AS TYPE A.	FIXTURE TO BE SURFACE MOUNTED ON CEILING IN CONTROL BUILDING. FIXTURE TO REPLACE EXISTING INCANDESCENT FIXTURE.	SAME AS TYPE A.
D*	"DAY-BRITE" #C240 OR "LITHONIA" #C240.	120	SAME AS TYPE A.	FIXTURE TO BE SURFACE MOUNTED ON CHANNEL IN SWITCHGEAR BUILDING. CHANNEL(S) TO BE PROVIDED AND INSTALLED AS REQUIRED TO SUPPORT FIXTURES. PROPOSED CHANNEL(S) TO MATCH EXISTING CHANNEL WITH RESPECT TO COLOR AND STRUCTURAL INTEGRITY.	SAME AS TYPE A EXCLUSIVE OF ACRYLIC LENS.
E*	"DAY-BRITE" #EC240 OR "LITHONIA" #C240EL.	120	SAME AS TYPE A.	SAME AS TYPE D.	SAME AS TYPE B EXCLUSIVE OF ACRYLIC LENS.

LIGHTING FIXTURE SCHEDULE CONTINUED					
TYPE	DESCRIPTION	VOLTS	LAMPS	MOUNTING	REMARKS
F	"CROUSE-HINDS" SERIES DW.	120	1-70W, HIGH PRESSURE SODIUM.	FIXTURE TO BE SURFACE MOUNTED ON EXTERIOR WALL OF CONTROL BUILDING. FIXTURE TO REPLACE EXISTING INCANDESCENT FIXTURE.	FIXTURE TO BE VANDAL AND CORROSION RESISTANT AND U.L. APPROVED FOR WET LOCATIONS. FIXTURE TO INCLUDE PHOTOCELL, INTERNALLY FUSED NORMAL POWER FACTOR BALLAST, CYLINDRICAL WHITE GLASS GLOBE, AND DIE CAST ALUMINUM HOUSING.
G	"CROUSE-HINDS" SERIES WALP.	120	1-70W, HIGH PRESSURE SODIUM.	FIXTURE TO BE SURFACE MOUNTED ON EXTERIOR WALL OF SWITCHGEAR BUILDING, 28-FEET ABOVE FINISHED GRADE. FIXTURE TO REPLACE EXISTING INCANDESCENT FIXTURE.	FIXTURE TO BE VANDAL AND CORROSION RESISTANT AND U.L. APPROVED FOR WET LOCATIONS. FIXTURE TO INCLUDE PHOTOCELL, INTERNALLY FUSED HIGH POWER FACTOR BALLAST, POLYCARBONATE REFRACTOR, AND DIE-CAST ALUMINUM HOUSING.
H	SAME AS TYPE G.	120	SAME AS TYPE G.	FIXTURE TO BE SURFACE MOUNTED ON EXTERIOR WALL OF CONTROL BUILDING, DIRECTLY BELOW SOFFIT. FIXTURE TO REPLACE EXISTING INCANDESCENT FIXTURE.	SAME AS TYPE G AND INCLUSIVE OF SURFACE MOUNTING CONDUIT KIT.
I	"KIM" TYPE 5 FIXTURE WITH "KIM" SERIES POOR POLE.	120	1-400W, HIGH PRESSURE SODIUM.	FIXTURE TO BE POST TOP MOUNTED ON 20-FOOT TAPERED SQUARE STEEL POLE. POLE TO BE AFFIXED TO TOP OF RESERVOIR AND TO INCLUDE 1-INCH NON-SHRINK GROUT BETWEEN POLE AND CONCRETE. NON-SHRINK GROUT TO BE PER NOTE 6 ON SHEET 43.	FIXTURE TO BE U.L. LISTED. FIXTURE TO INCLUDE PHOTOCELL, INTERNALLY FUSED HIGH POWER FACTOR BALLAST, CLEAR GLASS LENS AND EXTRUDED ALUMINUM HOUSING. POLE TO INCLUDE BASE COVER PLATE AND SINGLE TENON POST TOP MOUNTING BRACKET. FIXTURE, POLE, AND APPURTENANCES TO HAVE NATURAL ALUMINUM ENAMEL FINISH. LIGHT SWITCH WITH WEATHERPROOF COVER PLATE AND CAST DEVICE BOX TO BE PROVIDED AND INSTALLED ON POLE, 4-8 FEET FROM BOTTOM OF POLE, IN COORDINATION WITH POLE MANUFACTURER'S RECOMMENDATION AND ITEM "ELECTRICAL CONSTRUCTION."

* ALL FLUORESCENT FIXTURES PROVIDED TO BE BY SAME MANUFACTURER.

NO.	DATE	REVISION	APPROVED
BELTWOOD RESERVOIR EXPANSION			
ELECTRICAL ONE - LINE DIAGRAM			
DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS			
Turner Collier & Braden Inc.			
DESIGN	R.A.B.	CONTRACT NO.	89-79
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CHECKED			
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			SHEET NO. 41 OF 44