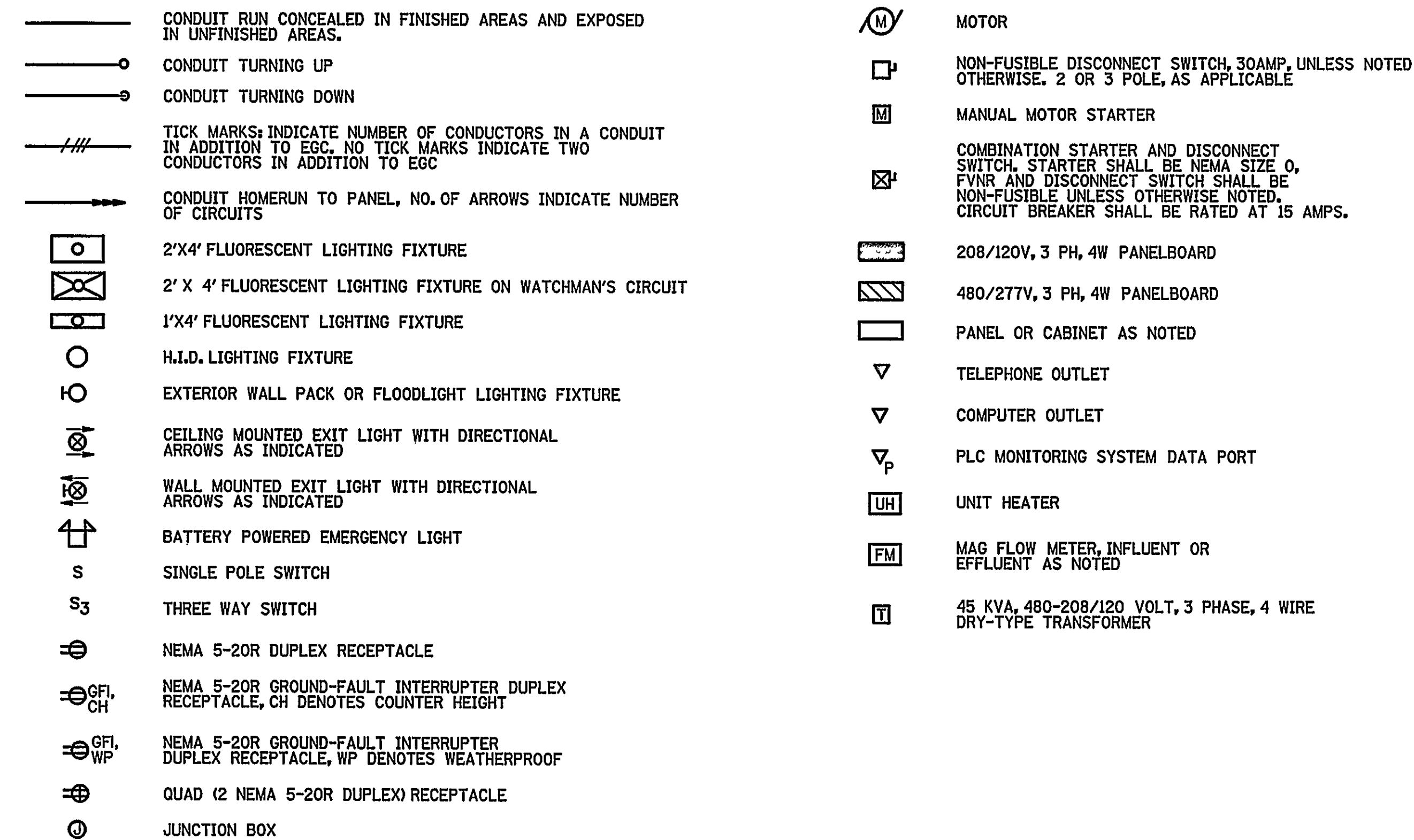
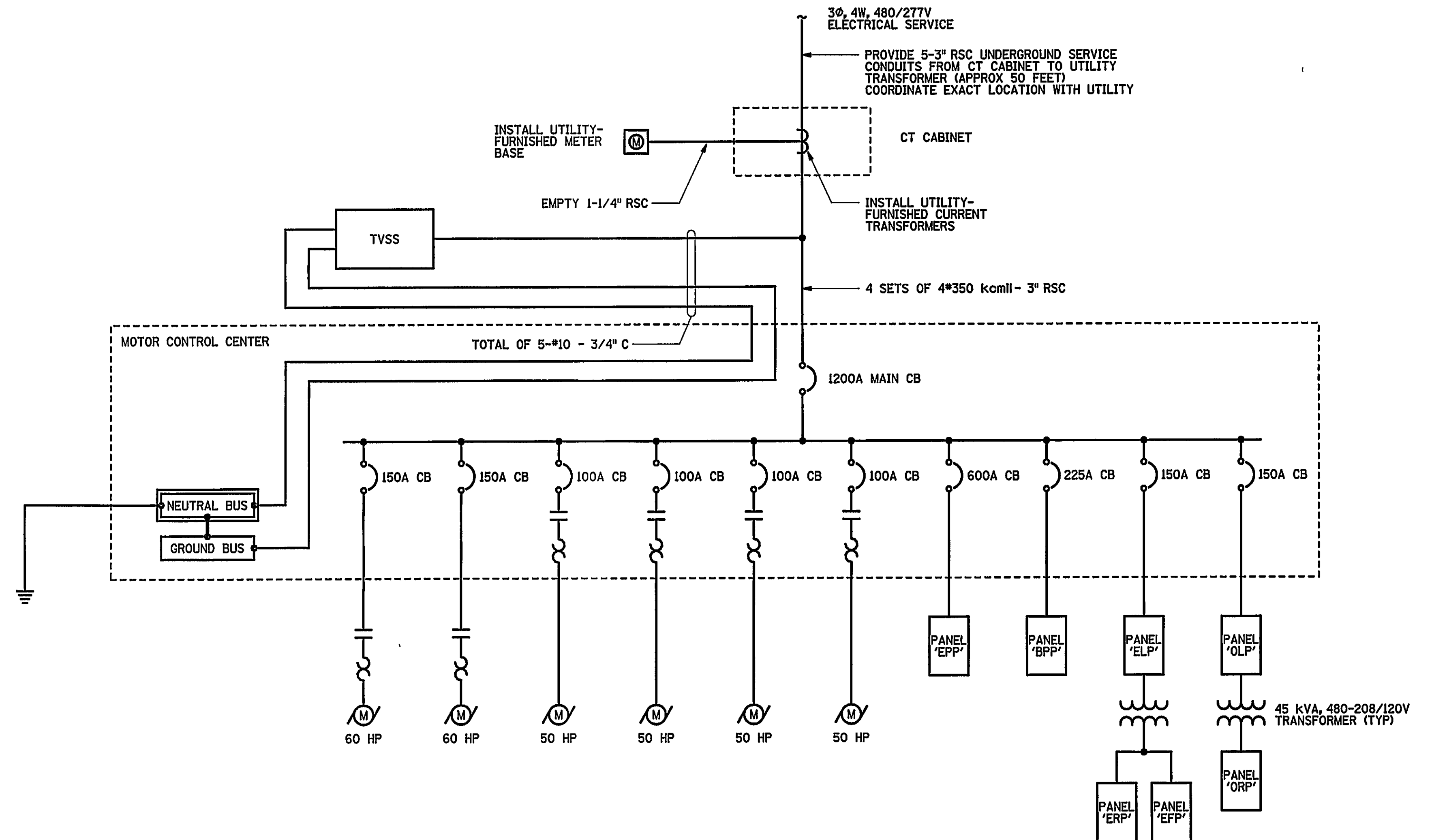


LEGEND



ABBREVIATIONS

A, AMP	AMPERE(S)	RECEPT	RECEPTACLE
AF	AMPERE FRAME	RMS	ROOT MEAN SQUARE
AFF	ABOVE FINISHED FLOOR	RSC	RIGID STEEL CONDUIT
APPROX	APPROXIMATELY		
AT	AMPERE TRIP	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
AWG	AMERICAN WIRE GAUGE	SYM	SYMMETRICAL
BCSD	BARE COPPER SOFT DRAWN		
BLDG	BUILDING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
BRKR	BREAKER	UH	TYPICAL
		UG	UNDERGROUND
C	CONDUIT	UH	UNIT HEATER
CB	CIRCUIT BREAKER		
CH	COUNTER HEIGHT	V	VOLT(S)
CIP	CLEAN IN PLACE	V _{ac}	VOLTS, ALTERNATING CURRENT
CIRC	CIRCULATION	V _{dc}	VOLTS, DIRECT CURRENT
CKT	CIRCUIT	VFD	VARIABLE FREQUENCY DRIVE
CMF	CONTINUOUS MEMBRANE FILTRATION		
CT	CURRENT TRANSFORMER	W	WATT(S), WIDE, WIRE
CTRL	CONTROL	WP	WEATHERPROOF
CU	COPPER	WSPH	WATER SOURCE HEAT PUMP
D	DEEP	XFMR	TRANSFORMER
DIA	DIAMETER	ø	PHASE
DPST	DOUBLE POLE, SINGLE THROW		
EF	EXHAUST FAN		
EGC	EQUIPMENT GROUNDING CONDUCTOR		
EXIST	EXISTING		
FVNR	FULL VOLTAGE, NON-REVERSING		
GFI	GROUND FAULT INTERRUPTER		
H	HIGH		
HID	HIGH INTENSITY DISCHARGE		
HP	HORSEPOWER		
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY		
kcmil	THOUSAND CIRCULAR MILS		
kVA	KILOVOLT-AMPERE(S)		
KW	KILOWATT		
MAG	MAGNETIC		
MCC	MOTOR CONTROL CENTER		
MCCB	MOLDED CASE CIRCUIT BREAKER		
MCP	MOTOR CIRCUIT PROTECTOR		
NEC	NATIONAL ELECTRICAL CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NEUT	NEUTRAL		
No.	NUMBER		
OC	ON CENTER		
P	POLE		
PH	PHASE		
PLC	PROGRAMMABLE LOGIC CONTROLLER		
PVC	POLY-VINYL CHLORIDE		



ELECTRICAL DISTRIBUTION SYSTEM ONE-LINE DIAGRAM

CONDUCTOR COLOR CODE		
CONDUCTOR	208/120 V	480/277 V
ΦA	BLACK	BROWN
ΦB	RED	ORANGE
ΦC	BLUE	YELLOW
NEUTRAL	WHITE	WHITE
GROUND	GREEN	GREEN

[illegible]

RECORD DRAWING

DATE: MAY 1, 2003

Wiley & Wilson
ARCHITECTS ENGINEERS PLANNERS
An Employee-Owned Company

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IN ASSOCIATION WITH

HDR

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5700 LAKE WRIGHT DRIVE
NORFOLK, VIRGINIA 23502
757-222-1500

DESIGNED SAB	DRAWN HDB	PROJECT CRYSTAL SPRING WATER TREATMENT PLANT FOR THE CITY OF ROANOKE, VIRGINIA ELECTRICAL LEGEND, ABBREVIATIONS, AND ONE-LINE DIAGRAM			
CHECKED PLG	REVIEWED MKJ				
COMM. NO. 200171.01					
CADD NO. 200171e01.dgn		REFERENCE			
DATE AUG 26, 2001		DWG. NO. E-1	SHEET NO. 62 OF 72	REV. 0	