

ID	QUAN.	ITEM DESCRIPTION	MANUFACTURE'S PART NUMBER	ID	QUAN.	ITEM DESCRIPTION	MANUFACTURE'S PART NUMBER
1	1	78.4 X 70.87 X 23.62, NEMA 12, 12 GAUGE FRAME, 14 GAUGE WALLS	HOFFMAN PTDDC020186	20	2	DPDT ELECTRONIC FLASHER 24 VOLT DC, SQUARE PLUG IN RELAY	AMPERITE 240F-10-120DPV
1	1	174 HIGH X 68 WIDE WHITE STEEL PANEL	HOFFMAN PPF2018	2	2	11 PIN DIN MOUNTED PLUG IN SQUARE RELAY BASE	SIEMENS 31X71144-1E4
2	15	INCH 24 VOLT DC LED TYPE PANEL FIXTURE	HOFFMAN LED24V15				
1	1	PLINTH BASE FOR ABOVE ENCLOSURE	HOFFMAN PFB1186	21	2	WHITE WIDE SLOT WIRING DUCT 1.26 WIDE, 3.12 HIGH WITH COVER	PANDUIT G 1X3 WH / CWH46
2	3	CUSTOM BLACK NAMEPLATE PLASTIC ENGRAVED WHITE LETTERING	SETON M6300	22	3	HIGH SPEED CLASS J FUSE 600 VOLT 100 AMP FOR VFD PROTECTION	BUSSMANN DFL-100
3	1	15 AMP GFCI RECEPTACLE BROWN	HUBBELL DRUB20GF	2	3	HIGH SPEED CLASS J FUSE 600 VOLT 100 AMP FOR SSRVS PROTECTION	BUSSMANN DFL-100
4	1	30MM HEAVY DUTY OIL TIGHT 3 POSITION SELECTOR SWITCH	SIEMENS 52S62BAB	23	1	VARIABLE FREQUENCY DRIVE CONTROL UNIT	SIEMENS CONTROL UNIT 6SL3 244-0BB12-1BA1
4	1	CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR	SIEMENS 52BAK	1	1	VARIABLE FREQUENCY DRIVE 50 HP, 480 VOLT POWER MODULE	SIEMENS POWER MODULE 6SL3 224-0BE33-7U40
1	1	"HAND OFF AUTO" NAMEPLATE	SIEMENS 52ML37	1	1	VARIABLE FREQUENCY DRIVE MEMORY CARD	SIEMENS MEMORY CARD 6SL3 254-0AM00-0AA0
5	1	30MM HEAVY DUTY OIL TIGHT ILLUMINATED GREEN PUSHBUTTON	SIEMENS 52PL4D3	1	1	DOOR MOUNTED REMOTE DISPLAY OPERATOR PANEL WITH CABLE	SIEMENS 6SL3 255-0AA00-4JA1 / 6SL3 255-0AP00-0JA0
1	1	30MM HEAVY DUTY OIL TIGHT ILLUMINATED AMBER PUSHBUTTON	SIEMENS 52PL4D9	1	1	REMOTE OPERATOR PANEL, CABLE AND 90 DEGREE CONNECTOR	KNORR TEC 10045200 / 2282566
2	1	CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR	SIEMENS 52BAK	24	1	INPUT LINE REACTOR, 3% IMPEDANCE.	SIEMENS 6SL3203-0C428-6AA0
2	1	CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR	SIEMENS 52BAU	1	1	OUTPUT REACTOR, 3% IMPEDANCE.	SIEMENS 6SE6400-3TC08-0ED0
2	1	"VFD MODE RUNNING" AND "SSRVS MODE RUNNING" NAMEPLATES	SIEMENS 52ML02	25	1		
6	2	30MM HEAVY DUTY OIL TIGHT ILLUMINATED RED PUSHBUTTON	SIEMENS 52PL4D2	26	1	SOLID STATE SOFT STARTER	SIEMENS 3RW44 27-1BC35
4	1	CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR	SIEMENS 52BAK	1	1	DOOR MOUNTED REMOTE DISPLAY WITH CABLE	SIEMENS 3UFT 933-0BA00-0
2	1	CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR	SIEMENS 52BAU	1	1	REMOTE DISPLAY WITH CABLE	SIEMENS 3RW 4800-0AC00
2	1	"FAILURE" PUSH TO RESET NAMEPLATES	SIEMENS 52ML02				
7	1	30MM HD RED ILLUMINATED OIL TIGHT 2 POSITION SELECTOR SWITCH	SIEMENS 52SA7A0N1 / 52RA6P2	27	2	3-POLE 24 VOLT DC OPERATED MOTOR CONTACTOR	SIEMENS RT10 46-1BB40
2	1	CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR	SIEMENS 52BAK	1	2	LATERALLY MOUNTED AUXILIARY SWITCH BLOCK, 2 NO	SIEMENS 3RH19-21-1EA20
1	1	CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR	SIEMENS 52BAU	1	1	LATERALLY MOUNTED MECHANICAL INTERLOCK WITH 1 NC CONTACT	SIEMENS 3RA19 24-2B
1	1	"VFD SSRVS" NAMEPLATE	SIEMENS 52ML02	3	1	REVERSING WIRING KIT TO INTEGRATE 2 CONTACTORS	SIEMENS 3RA19 43-2A
8	2	PANEL MOUNT ELECTRONIC DC HOUR & DIGIT METER	EVN SERIES T 40B45	2	2	FEEDER TERMINAL COVER	SIEMENS 3RA19 43-3L
9	1	3 POLE MOLDED CASE CIRCUIT BREAKER 600 VOLT RATED	SIEMENS P306B3XXX	2	2	LINE SIDE TERMINAL COVER	SIEMENS 3RA19 46-4EA2
3	1	DISTRIBUTION LUGS FOR ECB AND MCB CIRCUIT BREAKERS	SIEMENS TAB6FD04	1	1	SECOND LATERALLY MOUNTED AUXILIARY SWITCH BLOCK, 2 NO	SIEMENS 3RH19-21-1KA20
10	10	24 VOLT DC SQUARE PLUG IN RELAY	SIEMENS 31X71117-5PC03	3	3	COOPER LUG	ILSCO LQ-0
10	14	PIN DIN MOUNTED PLUG IN RELAY BASE	SIEMENS 31X71144-1E9	1	1	TEMPERATURE AND LEAKAGE PUMP SUPERVISION RELAY	PUMP MANUFACTURER TO SPECIFY
2	1	DIODE SUPPRESSION SOCKET ACCESSORY	SIEMENS 31X71144H6	30	1		
11	1	SURGE PROTECTION DEVICE, MODULAR TYPE, 3 POLE, 480 VAC	DEHN DG ML3D 3PD 480 3W-G-R - Part No. 908-355	31	9	24VOLT PLUGGABLE SURGE ARRESTOR DEVICE	DEHN BSPM4 BE 24 / 926-324
12	1	1500VA CONTROL TRANSFORMER 208-480VOLT PRI / 115 SEC.	SIEMENS MT1500G	9	2	BASE FOR SURGE ARRESTOR DEVICE FOR DIN MOUNTING	DEHN BXT BAS / 920 300
13	1	DIN MOUNTED 2 POLE MODULAR SURGE PROTECTION DEVICE	DEHN DR M 2P150FM / 953-209	32	2	13" CABINET FAN WITH FILTER, 120 VAC	RITTAL 3326207
14	1	DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 5 AMP TRIP	SIEMENS 5S14105-7HG40	33	1	USB TYPE BULKHEAD, FEMALE TO FEMALE, NEMA 12	GRACE ENGINEERING PRODUCTS P-P22-K4
1	1	DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 3 AMP TRIP	SIEMENS 5S14103-7HG40	34	-		
1	1	DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 4 AMP TRIP	SIEMENS 5S14104-7HG40	35	-		
1	1	DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 5 AMP TRIP	SIEMENS 5S14111-7HG40	-	-		
1	1	DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 6 AMP TRIP	SIEMENS 5S14106-7HG40	36	-		
1	1	DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 10 AMP TRIP	SIEMENS 5S14110-7HG40	-	-		
1	1	CIRCUIT BREAKER LINE SIDE FEED BUS BAR	SIEMENS SST 3663-0HG				
1	1	CIRCUIT BREAKER LINE SIDE INFEED BUS BAR	SIEMENS SST 3666-2HG				
15	1	DIN MOUNTED 10 AMP DIN MOUNTED 24VOLT DC POWER SUPPLY	SIEMENS SEP11 334-3BA10	37	1	THERMAL SENSOR, DOUBLE POLE, DOUBLE THROW SWITCH	PECO TH109-009
16	12	DIN MOUNTED BEIGE 1 TIER TERMINAL BLOCKS	SIEMENS 5WV1 011-1DG11	38	1	3 POLE FUSE HOLDER DEAD FRONT 600 VOLT RATED	BUSSMANN OPM-1038RSW
17	1	30MM HEAVY DUTY OIL TIGHT 2 POSITION SELECTOR SWITCH	SIEMENS 52S62AAB	2	2	TIME DELAY CLASS CC 3.5 AMP FUSE	BUSSMANN PNC-R-3-12
3	1	CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR	SIEMENS 52BAK	39	1	FLANGE MOUNT VARIABLE DEPTH CIRCUIT BREAKER OPERATOR	SIEMENS PHOF036
1	1	"OFF AUTO" CUSTOM NAMEPLATE	SIEMENS 52ML02BE	40	3	PERFORATED GALVANIZED DIN RAIL	SIEMENS SST1 145
18	2	DPDT TIME DELAY "ON" 24 VOLT DC, 8 PIN OCT., PLUG IN RELAY	ROCKWELL AUTOMATION 700HT12BU24	13	13	FEED THRU TYPE PE TERMINALS	PHOENIX CONTACT US1KG6N
2	8	8 PIN DIN MOUNTED PLUG IN SQUARE RELAY BASE	ROCKWELL AUTOMATION Y700CH125	41	1	30MM HEAVY DUTY OIL TIGHT ILLUMINATED BLUE PUSHBUTTON	SIEMENS 52PL4D5
19	1	DPDT TIME DELAY "OFF" 24 VOLT DC, 8 PIN OCT., PLUG IN RELAY	ROCKWELL AUTOMATION 700HT12BU24	42	1	CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR	SIEMENS 52BAK
1	11	PIN DIN MOUNTED PLUG IN SQUARE RELAY BASE	ROCKWELL AUTOMATION 700CH125	1	1	CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR	SIEMENS 52BAU
1	1			1	1	"SCADA CONTROL"	SIEMENS 52ML02

NOTES:  
1. NO SUBSTITUTE EQUAL ITEM ACCEPTED. PROVIDE AS SPECIFIED  
2. ALTERNATE APPROVED SPECIFIED ITEM EQUAL ACCEPTED.  
3. BILL OF MATERIALS BASED ON A MAXIMUM OF 50 HP @ 480 VOLTS.  
4. FOR LARGER HP APPLICATIONS, ALL COMPONENTS SHALL BE SIZED PROPERLY.

SCALE:	N.T.S.	2	REVISED ORDERING DATA, ITEM 13 AND 23
DESIGN:	IAG /LS	4	REVISED ITEM 10 QUANTITY
DRAWN BY:	JG	6	REVISED COMPONENT NOTES
APPROVED BY:	GM	NO	REVISION



WASTEWATER DIVISION,  
INDUSTRIAL AUTOMATION GROUP  
CITY OF  
ORLANDO, FLORIDA

TITLE:  
LIFT STATIONS STANDARDS  
> 50 HP VFD WITH SSRVS PUMP  
CONTROLLER  
BILL OF MATERIALS SPECIFIED  
COMPONENTS # 1