



ONE-LINE POWER DIAGRAM

NTS

GENERAL ELECTRICAL NOTES

- RECESSED JUNCTION BOXES FOR SINGLE DEVICES SHALL HAVE SINGLE GANG MUD RINGS CAST IN CONCRETE WALLS.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED BY CIRCUIT BREAKERS, OR BY OTHER GFCI RECEPTACLES.
- ALL CONDUIT SHALL BE SIZED PER NEC. (SEE REF TABLE) EXPOSED CONDUIT SHALL BE EMT/FMC, RECESSED SHALL BE PVC.

WIRE SIZE	1/2" EMT	3/4" EMT	WIRE SIZE	1/2" ENT	3/4" ENT	WIRE SIZE	1/2" FMC	3/4" FMC
14	TYPE THHN 12 MAX	TYPE THHN 22 MAX	14	TYPE THHN 10 MAX	TYPE THHN 18 MAX	14	TYPE THHN 13 MAX	TYPE THHN 22 MAX
12	TYPE THHN 9 MAX	TYPE THHN 16 MAX	12	TYPE THHN 7 MAX	TYPE THHN 13 MAX	12	TYPE THHN 9 MAX	TYPE THHN 16 MAX
10	TYPE THHN 5 MAX	TYPE THHN 10 MAX	10	TYPE THHN 4 MAX	TYPE THHN 8 MAX	10	TYPE THHN 6 MAX	TYPE THHN 10 MAX

- INSTALL ALL WIRING IN CONDUIT OR RELATED ENCLOSURES.
- ALL ELECTRICAL INSTALLATIONS SHALL MEET THE 2002 VERSION OF THE NATIONAL ELECTRICAL CODE.
- MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER, THHN INSULATION UNLESS NOTED OTHERWISE.
- ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.
- PROVIDE A MOTOR RATED SWITCH FOR DISCONNECT TO HAND DRYER LOCATED IN UTILITY CHASE
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF J-BOXES, ETC..

SYM	MFR	MODEL #	CFM	SONES	VOLTS	AMPS	NTS.
EF-1	BROAN	508MG	270	6.0	120	1.7	1

NOTE 1: WITH BROAN #57V SPEED CONTROL, MOUNTED IN CHASE.

SYM	MFR	MODEL #	CFM	VOLTS	WATTS	AMPS	NTS.
H-1	CADET	CT302SP	165	240	3000	12.5	1
H-2	CADET	C152T	83	240	1500	6.25	1

NOTE 1: INTEGRAL THERMOSTAT, SURFACE MOUNTING.

CIRCUIT NUMBER	BREAKER NUMBER	VOLTAGE	POLES	AMPS	DESCRIPTION
1	1	120	1	20	LIGHTS - UTILITY, EXT.
2	2	120	1	20	RECEPTACLE - UTILITY
3	3	120	1	20	HAND DRYER - MEN
4	4	120	1	20	HAND DRYER - WOMEN
5	5	120	1	20	EXHAUST FANS
6	6	120	1	20	DIGITAL TIMER
7	7	120	1	20	RECEPTACLE - MEN
8	8	120	1	20	RECEPTACLE - WOMEN
9	9	240	2	20	H-1 HEATER - MEN
10	10	240	2	20	H-1 HEATER - WOMEN
11	11				H-1 HEATER - MEN
12	12				H-1 HEATER - WOMEN
13	13	240	2	20	H-2 HEATER - CHASE
14	14	120	1	20	DOSING TANK SUMP PUMP
15	15				H-2 HEATER - CHASE
16	16	240	2	30	HOT WATER HEATER
17	17	120	1	20	SPARE
18	18				HOT WATER HEATER

CALCULATED LOAD INCLUDING ALL OPTIONS IS 15249 VA OR 64 AMPS

NOTE: MAXIMUM ALLOWABLE AIC IS 22K AMPS. PANEL MODIFICATIONS WILL BE REQUIRED IF TRANSFORMER CAPACITY EXCEEDS 175 KVA

FIXTURE NUMBER	VOLTAGE	WATTS	DESCRIPTION
A	120	88	SURFACE MOUNTED, THREE F032T8 LAMPS 4 FT, WRAP AROUND LENS, LOW TEMPERATURE BALLAST, TIME CLOCK CONTROL WITH SWITCH OVERRIDE
B	120	43	EXTERIOR, VANDAL RESISTANT, WALL MOUNTED, 35 WATT, HIGH PRESSURE SODIUM, ALUMINUM REFLECTOR, BRONZE FINISH, REMOTE PHOTOELECTRIC CONTROL

NOTE: PRODUCT OR BRAND NAMES ARE SHOWN TO ESTABLISH MINIMUM QUALITY REQUIREMENTS, PRODUCTS OR BRANDS OF EQUAL QUALITY ARE ACCEPTABLE.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION CLIFTON TERRACE PARK COMFORT STATION ELECTRICAL DETAILS & SCHEDULES
NAME	DATE	
SCALE: VERT. HORIZ.	DATE	DRAWN BY DWH CHECKED BY DWH
	FEBRUARY 9, 2005	