

MOUNTING: (MTG)	LAMP TYPE:	LENS/SLOUER: (L/L)
RE - RECESSED	FL - FLUORESCENT	A - .125" ACRYLIC
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK
WL - WALL	IN - INCANDESCENT	D - PARABOLIC
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS
PL - POLE	MH - METAL HALIDE	H - WALL WASHER
O - OTHER (SEE DESCRIPTION)	SMH - SUPER METAL HALIDE	P - POLYCARBONATE
	PSMH - PULSE START METAL HALIDE	K - KSH12 .125" ACRYLIC
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .195" ACRYLIC
	O - OTHER (SEE DESCRIPTION)	L - LOW IRIDESCENT SPECULAR ALUM.
DOOR:	XL - EXTENDED LIFE	N - NONE
FA - FLAT ALUMINUM	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT DR ACRYLIC
FS - FLAT STEEL		O - OTHER (SEE DESCRIPTION)
RA - REGRESSED ALUMINUM		
RS - REGRESSED STEEL		
	BALLAST: (BL5)	#MBF - BALLAST FACTOR
FINISH:	DL - DIMMING BALLAST	HL - HIGH / LOW LEVEL BALLAST
PAF - PAINT AFTER FABRICATION	EB - ELECTRONIC BALLAST	HP - HIGH PERFORMANCE
CSA - FINISH SELECTION BY ARCHITECT	EM - EMERGENCY BATTERY/BALLAST	ML - MULTI-LEVEL SWITCHING
	DALI - DIGITAL DIMMING BALLAST	MV - MULTI-VOLTAGE ELECTRONIC

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
FLUORESCENT LAMP CORRELATED COLOR TEMPERATURE 3500°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE. COORDINATE
ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT.

		CONSULTANTS/ENGINEERS:		
		KJWW ENGINEERING CONSULTANTS Mechanical/Electrical/Plumbing Engineer	TERRACON Geotechnical Engineer	GRAEF Civil Engineer/Landscape Architect
	06/10/11	623 26TH AVENUE ROCK ISLAND, ILLINOIS 61201	2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404	332 SOUTH MICHIGAN, SUITE 1400 CHICAGO, ILLINOIS 60604-4367
ION)	04/11/11	309.220.6713 Telephone	319.308.8321 Telephone	312.580.2000 Telephone
ION)	02/03/11	309.786-5967 Fax	319.366.0032 Fax	312.939.7014 Fax
- COST ESTIMATE	01/19/10			
	11/22/10			
	TOTAL			

REMARKS:									
STARTER TYPE:			SV - STANDARD ACCESSORIES (INCLUDES * ITEMS)						
FY - FULL VOLTAGE			*CT - CONTROL TRANSFORMER,				PF - PHASE FAILURE RELAY		
YD - WYE - DELTA			FUSED 120V				(5 HP OR GREATER)		
RE - REVERSING			*EO - ELECTRONIC OVERLOAD				TO - TERMINAL OVERLOADS		
TW - 2 SPEED, 2 WINDING			*HA - HAND-OFF-AUTO IN DOOR				TS - 2 SPEED SELECTOR SWITCH IN DOOR		
SW - 2 SPEED, 1 WINDING			*RP - RED (RUN) PILOT LIGHT IN DOOR				GP - GREEN (OFF) PILOT LIGHT IN DOOR		
RV - REDUCED VOLTAGE AUTOMFORM			2V - CONVERTIBLE AUXILIARY CONTACTS				FA - 4-CONVERTIBLE AUXILIARY CONTACTS		
SS - SOLID STATE			*TA - TWO CONCURRENT AUXILIARY CONTACTS				EI - ELECTRICAL INTERLOCK (2 P.O. & 2 P.O.2 C)		
MS - MANUAL STARTER			SN - INSULATED NEUTRAL ASSEMBLY				SB - START-STOP PUSHBUTTON IN DOOR		
MX - MANUAL SWITCH							HL - HANDLE PADLOCK HASP		
FS - FUSED SWITCH									
NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.									
DISCONNECT TYPE & RATING			STARTER				BASIS OF DESIGN		
HEAVY DUTY SWITCH									
ITEM	FUSED	NON-FUSED	CIRCUIT BREAKER	VOLTAGE	POLES	NEMA SIZE	TYPE	NEMA ENCLOSURE	REMARKS
FSD-30s	30A			120/240	2			1	SIN LIGHT DUTY, FUSED AT 20 AMPS
FSD-30R	30A			600	3			3R	FUSED AT 15 AMPS
FSD-100	100A			600	3			1	FUSED PER ELEVATOR MFR

TYPE:										REMARKS:			
TP1 - NEMA TP1 DRY TYPE										AUT - AUTOTRANSFORMER			
K1 - K1 RATED DRY TYP										AL - ALUMINUM WINDINGS			
K13 - K13 RATED DRY TYP										CU - COPPER WINDINGS			
HM - HARMONIC MITIGATING										RS - EPOXY RESIN ENCAPSULATED			
RE - NEMA PREMIUM EFFICIENCY										FL - FILTERED			
										NW - NON-VENTILATED			
										NL - 200% RATED RATED NEUTRAL			
										EL - ELECTROSTATIC SHIELD			
ENCLOSURE: NEMA 1 UNLESS SPECIFIED OTHERWISE													
ITEM	KVA RATING	TYPE	MAX. TEMP. RISE C.	PRIMARY		SECONDARY		TAPS				REMARKS	BASIS OF DESIGN
				VOLTS	PH	VOLTS	PH	% REG	% REG	#(C)	#(N)		
TR-4301	30	TP1	150	480	3	208Y/120	3	2.5	2	4		CU	SQUARE D 7400 EE03T3H

<p>CONSULTANTS</p> <p>FAITHFUL+GOULD Cost Management</p> <p>222 SOUTH RIVERSIDE PLAZA, SUITE 2240 CHICAGO, ILLINOIS 60606 312.612.6519 Telephone 312.655.9037 Fax</p>	<p>ARCHITECT:</p> <p>Loebl Schlossman & Hack Architecture • Planning • Interior</p> <p>Copyright © 2010 Loebl Schlossman & Hack Inc.</p>
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TYPE: BOLT-ON										MAIN:		100A/3P CB	
MOUNTING: SURFACE										VOLTS:		208Y / 120	
FED FROM: EXISTING PANEL 'LSB'										PHASE:		3	
K E SCORE: 10,000										WIRE:		4	
NOTES:													
Y *	CKT NO.	LOAD DESCRIPTION	WIRE SIZE	LOAD KVA	BREAKER AMP	P	BREAKER AMP	P	LOAD KVA	WIRE SIZE	LOAD DESCRIPTION	CKT NO.	Y *
H	1	F4, 10F6, F10, 2EX (GROUND TIER, SURFACE MOUNTED LED AND NE STAIR)	10	1.1	20	1	20	1	0.9	10	ELEVATOR CAB LIGHTING (GROUND TIER, ELEVATOR MACHINE ROM 103)	2	
H	3	7F1E, 5F10, 6EX (SE STAIR)	10	1.2	20	1	20	1	0.9	10	ELEVATOR CAB LIGHTING (GROUND TIER, ELEVATOR MACHINE ROM 103)	4	
H	5	F4, 10F6, F10, F18,EX (SECOND TIER, SURFACE MOUNTED LED AND NE STAIR)	10	1.4	20	1	20	1	0.5	10	RELOCATED OIL FILL AND CONTROL PNL (GROUND TIER)	6	
	7	5F3E (SECOND TIER, EAST ENTRANCE DOWNLIGHTS)	10	1.2	20	1	20	1			SPARE	8	
	9	12F6 (THIRD TIER, SURFACE MOUNTED LED AND NE STAIR)	10	1.2	20	1	20	1			SPARE	10	
H	11	5F4, 7F6, F10, F18, EX (FOURTH TIER, SURFACE MOUNTED LED AND NE STAIR)	10	1.3	20	1	20	1			SPARE	12	
	13	4F8 (HALF), 3F9 (TOP TIER)	10	1.1	20	1	20	1			SPARE	14	
	15	6F7E (SECOND TIER, EAST ENTRANCE CYLINDERS)	10	1.1	20	1	20	1			SPARE	16	
	17	SPARE			20	1	20	1			SPARE	18	
	19	SPARE			20	1	20	1			SPARE	20	
	21	SPARE			20	1	20	1			SPARE	22	
	23	SPARE			20	1	20	1			SPARE	24	
	25	SPARE			20	1	20	1			SPARE	26	
	27	SPARE			20	1	20	1			SPARE	28	
	29	SPARE			20	1	20	1			SPARE	30	

KEY: H=HANDLE LOCK

TYPE: BOLT-ON		MOUNTING: SURFACE		SOLID NEUTRAL		VOLT: 100A/3P CB	
FED FROM: PANEL 4301/H VIA TR-4301		SCCR: 10,000		GROUND BUS		PHASE: 3	
NOTES:						WIRE: 4	

CKT NO.	LOAD DESCRIPTION	WIRE SIZE	LOAD KVA	BREAKER AMP	P	BREAKER AMP	P	LOAD SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT NO.
1	RECEPT, (GROUND TIER, TECHNOLOGY ROOM 105, EAST WALL)	12		20	1	20	1	0.2	10	RECEPT, (GROUND TIER, ELEVATOR MACHINE ROOM 103)	2
3	RECEPT, (GROUND TIER, TECHNOLOGY ROOM 105, WEST WALL)	12	0.4	20	1	20	1	0.6	10	2F12, 1 RECEPT, (GROUND TIER, SE ELEVATOR SHAFT)	4
5	RECEPT, (GROUND TIER, WATER SERVICE ROOM 104, AND ELECT. ROOM 106)	12	0.8	20	1	20	1	0.2	10	1 RECEPT, (GROUND TIER, SE ELEVATOR SHAFT, SUMP PUMP)	6
7	POWER DOOR (GROUND TIER, SE STAIR)	10	0.6	20	1	20	1	0.2	10	1 RECEPT, (GROUND TIER, SE ELEVATOR SHAFT, SUMP PUMP)	8
9	POWER DOOR (SECOND TIER, SE STAIR)	10	0.6	20	1	20	1	1.8	10	9 RECEPT, (SE STAIRS AND STORAGE)	10
11	RECEPT, (NE STAIRS)	10	0.8	20	1	20	1	0.6	10	2F12, 1 RECEPT, (TOP TIER, SE ELEVATOR SHAFT)	12
13	RECEPT, (GROUND TIER, STORAGE 107)	10	0.6	20	1	20	1	0.2	10	2F13, 8F15 (GROUND TIER, BOLLARDS AND FLOODLIGHTS)	14
15	POWER DOOR (THIRD TIER, SE STAIR)			20	1	20	1	0.3	10	3F15, 2F16, 8F17 (SOUTH LANDSCAPING)	16
17	EF-2 (ROOF OF SE STAIR)	10	1.0	20	1	20	1	1.0	10	EF-1 (ROOF OF NE STAIR)	18
19	POWER DOOR (FOURTH TIER, SE STAIR)	10	0.6	20	1	20	1			1 ROOF OF SE STAIR	20
21	POWER DOOR (TOP TIER, SE STAIR)	10	0.6	20	1	20	1			SPARE	22
23	SPARE			20	1	20	1			SPARE	24
25	SPARE			20	1	20	1			SPARE	26
27	SPARE			20	1	20	2	2.7	10	SS-2 (GROUND TIER, ELEVATOR MACHINE ROOM 103)	28
29	SPARE			20	1	--	--	--	--	----	30

TYPE: BOLT-ON	MAIN:	400A/3P CB
MOUNTING: SURFACE	VOLTS:	480Y / 277
FED FROM: EXISTING PANEL 'B06-1H'	PHASE:	3
SCCR: 35,000	WIRE:	4
NOTES:		

CKT NO.	LOAD DESCRIPTION	WIRE SIZE	LOAD KVA	BREAKER AMP	P	BREAKER AMP	P	LOAD KVA	WIRE SIZE	LOAD DESCRIPTION	CKT NO.
1	12F14 (GROUND TIER, NORTH ENTRANCE DOWNLIGHTS)	10	1.6	20	1	20	1	2.1	10	F5, 20F6 (THIRD TIER, SURFACE MOUNTED LED)	2
3	F5, 17F6 (GROUND TIER, SURFACE MOUNTED LED)	10	1.7	20	1	20	1	1.2	10	12F6 (FOURTH TIER, SURFACE MOUNTED LED)	4
5	9F14 (GROUND TIER, SOUTH ENTRANCE DOWNLIGHTS)	10	1.3	20	1	20	1	1.2	10	4F8 (HALF), 4F9 (TOP TIER)	6
7	13F11 (GROUND TIER, STORAGE 107)	10	0.9	20	1	20	1			SPARE	8
9	6F11 (GROUND TIER, EQUIPMENT ROOM)	10	0.4	20	1	20	1			SPARE	10
11	15F1, 5F11, 3F12 (SE STAIR, MACHINE ROOM, STORAGE ROOMS)	10	1.9	20	1	20	1			SPARE	12
13	F5, 18F6 (SECOND TIER, SURFACE MOUNTED LED)	10	1.9	20	1	20	1			SPARE	14
15	6F3, 10F7 (SECOND TIER, EAST ENTRANCE LIGHTS, SOUTH HALF)	10	2.9	20	1	20	1			SPARE	16
17	9F3 (SECOND TIER, EAST ENTRANCE LIGHTS, NORTH HALF)	10	2.8	20	1	20	1			SPARE	18
19	UH-1 (GROUND TIER, TECHNOLOGY ROOM 105)	12	3.3	20	3	20	1			SPARE	20
21	-----	--	--	--	--	20	1			SPARE	22
23	-----	--	--	--	--	20	1			SPARE	24
25	UH-2 (GROUND TIER, WATER SERVICE ROOM 104)	12	3.3	20	3	20	1			SPARE	26
27	-----	--	--	--	--	20	1			SPARE	28
29	-----	--	--	--	--	50	3	16.9	E	PANEL '430'1' VIA TR-4301	30
31	UH-3 (GROUND TIER, ELEVATOR MACHINE ROOM 103)	10	3.3	20	3	--	--	--	--	-----	32
33	-----	--	--	--	--	--	--	--	--	-----	34
35	-----	--	--	--	--	20	1	0.2	12	LC-1, LC-2	36
37	ELEVATOR #1 (50 HP) (GROUND TIER, ELEVATOR MACHINE ROOM 103)	3	51.8	125	3	125	3	51.8	3	LC-1, LC-2 ELEVATOR #2 (50 HP) (GROUND TIER, ELEVATOR MACHINE ROOM 103)	38
39	-----	--	--	--	--	--	--	--	--	-----	40
41	-----	--	--	--	--	--	--	--	--	-----	42

KEY: E=REFER TO ONE-LINE

Mechanical/Electrical/Plumbing Engineer	Geotechnical Engineer	Civil Engineer/Landscape Architect
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06/10/2011

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