

Stinger Leg PH B	60 amps	3%	<30% Loaded	Stinger Leg PH B	60 amps	3%	<30% Loaded	Stinger Leg PH B	200 amps	7%	<30% Loaded
(N)PANEL: "SW"	VOLTAGE: 120/240V 3F		MOUNT: SURFACE	(N)PANEL: "NE"	VOLTAGE: 120/240V 3F	P, 4W BUS: 125A	MOUNT: SURFACE	(NPANEL: "SE"	VOLTAGE: 120/240V	3P. 4W BUS: 200A	MOUNT: SURFACE
TYPE: PANELBOARD	AIC: SERIES RATED	MAIN: MLO-60A	TYPE: NEMA 3R	TYPE: PANELBOARD	AIC: SERIES RATED	MAIN: MLO-60A	TYPE: NEMA 3R	TYPE: PANELBOARD	AIC: SERIES RATED	MAIN: MLO	TYPE: NEMA 3R
NOTES: NEW		Print D	ate: 11-Feb-11	NOTES: NEW		Print D	)ate: 11—Feb—11	NOTES: NEW		Print	Date: 11-Feb-11
LOAD	KVA CB NO A B (	C NO CB KVA LOAD		LOAD	KVA CB NO A B C	NO CB KVA LOAD	)	LOAD	KVA CB NO A B		
Space	PFB 1 A		cept-(GFIC)Quad G-use	Space	PFB 1 A		ecept—(GFIC)Quad G—use	Space	PFB 1 A		Recept—(GFIC)Quad G—use
Do "Not" Use	- <b>3</b> B	4 -   Do "	Not" Use	Do "Not" Use	- <b>3</b> B	4  -     Do "	Not" Use	<b>Space</b> Do "Not" Use	- 3 B	4  -       Do	"Not" Use
Space	PFB 5 (		ecept-(GFIC)Quad G-use	Space	PFB 5 C		ecept-(GFIC)Quad G-use	Space	PFB 5	C 6 20/1 0.4 R (N)	Recept-(GFIC)Quad G-use
Space	PFB 7 A	8 PFB Spac	e	<b>Space</b> Do "Not" Use	PFB 7 A	8 PFB Space	e Not" Use	Space	PFB 7 A	8 20/1 0.4 R (N)	Recept-(GFIC)Quad G-use
Do "Not" Use	9 B		Not" Use		_ <b>9</b> B			Do "Not" Use	– 9 B	10 - Do	"Not" Use
Space	PFB 11 (	C 12 PFB Spac		Space		C 12 PFB Space		(N)Lighting-LED Controllers	C 0.2 20/1 11		Lighting Controller "LCC"
Space	PFB 13 A	14 PFB Spac	e	Space	PFB 13 A	14 PFB Space	e	(N)Lightng— Rink Floods	C 0.8 20/1 13 A	14 PFB Spa	"Not" Use
Do "Not" Use	PFB 17 (		Not" Use	Do "Not" Use	- 15 B		Not" Use	Do "Not" Use	- 15 B		
Space	PFB 19 A	C 18 PFB Spac 20 PFB Spac		Space	PFB 17 C	2 18 PFB Space Spa		(N)Lighting— Rink Floods		C 18 PFB Spa	
Space Do "Not" Use		20  FFB	vot" Use	<b>Space</b> Do "Not" Use		20 PFB   Space   Do "	<b>e</b> Not" Use	(N)Lighting—NL/EM	C 0.2 20/1 19 A		"Not" Use
Space	PFB 23 0	C 24 PFB Spac		Space		C 24 PFB Space		(N)Lighting—Exterior Wall Packs	C 0.6 20/1 23	22 -   Do   C 24 PFB   Spa	
Space	PFB 25 A	26 PFB Spac		Space Space		26 PFB Space			PFB 25 A		
Do "Not" Use	27   B		Not" Use	Do "Not" Use	- 27 B	28 – Do "	Not" Use	<b>Space</b> Do "Not" Use	- 27 R	20 F1B   300	"Not" Use
Space	PFB 29 0	C 30 PFB Spac		Space		C 30 PFB Space		Space Space	PFB 29	C 30 PFB Spa	
Space	PFB 31 A	32 PFB Spac	e	Space	PFB 31 A	32 PFB Space	e		PFB 31 A	32 PFB   Spa	ce
Do "Not" Use	— <b>33</b> В		Not" Use	Do "Not" Use	— <b>33</b> В		Not" Use	<b>Space</b> Do "Not" Use	- 33 B	<b>34</b> – Do	"Not" Use
Space	PFB 35 (	C 36 PFB Spac		Space	PFB   35   C	C 36 PFB Space		Space		C 36 PFB Spa	ce
Space	PFB 37 A	38 PFB Spac	е	Space	PFB 37 A	38 PFB Space	e	To Panel "NE"	P 0.4 60/ 37 A	38 60/ 0.4 P To	Panel "SW"
Do "Not" Use	-   <b>39</b>     B		Not" Use	Do "Not" Use	B		Not" Use		P / 39 B		
Space	PFB   41     (	C   42   PFB	9	Space	PFB   41   C	C 42 PFB Spac	<u>e</u>		P 0.4 /3 41	C 42 /3 0.4 P	
LOAD CALCULATIONS:		LEGEND		LOAD CALCULATIONS:		LEGEND		LOAD CALCULATIONS:		LEGEND	
0.0 kVA Continuous Non-	Motor	PFB = Provision for Futur	e Breaker	0.0 kVA Continuous Non-	-Motor	PFB = Provision for Futur	e Brenker	2.4 kVA Continuous Non-	-Motor	PFB = Provision for Futu	ire Breaker
	0.0 kVA 25% Continuous Non-Motor $\langle E \rangle = \text{Existing Load}$		0.0 kVA 25% Continuous Non-Motor $\langle E \rangle$ = Existing Load			C Di Garoi	0.6 kVA 25% Continuous Non-Motor		E> = Existing Load		
0.0 kVA Non-Continuous  F> = Future Load			0.0 kVA Non-Continuous  \$\Phi\$ = Future Load				0.4 kVA Non-Continuous (F) = Future Load				
0.8 kVA Receptacle (First 10KVA NEC 220-13) C = Continuous Load (>3 hrs per NEC 100)			0.8 kVA Receptacle (First 10KVA NEC 220-13) C = Continuous Load (>3 hrs per NEC 100)			1.2 kVA Receptacle (First 10KVA NEC 220-13) C = Continuous Load (>3 hrs per NEC 100)			3 hrs per NEC 100)		
0.0 kVA Receptacle(Balance at 50%) N = Non-continuous load		0.0 kVA Receptacle(Balance at 50%) N = Non-continuous load				0.0 kVA Receptacle(Balance at 50%)		N = Non-continuous load			
0.0 kVA Motor Load's (NEC	C 430)	R = Receptacle Load (tak	en at 180 VA only)	0.0 kVA Motor Loads (NE	_C 430)	R = Receptacle Load (tal	en at 180 VA only)	0.0 kVA Motor Loads (NE	EC 430)	R = Receptacle Load (to	aken at 180 VA only)
0.0 kVA 25% of Largest N	Motor	M = Motor Load	>	0.0 kVA 25% of Largest	Motor	M = Motor Load		0.0 kVA 25% of Largest	Motor	M = Motor Load	
0.0 No Kitchen Equip.  K= Kitchen Load (NEC 220-20)		0.0 No Kitchen Equip. K= Kitchen Load (NEC 220-20)			0.0 No Kitchen Equip.		K= Kitchen Load (NEC 220-20)				
0.0 kVA Hotel/Motel Demand (NEC 220-11)  H = Hotel/Motel  O 0 kVA Ass Welders (NEC 630, 11h 21h EDN)  A = Ass Welders (NEC AC years DC reatifier)		0.0 kVA Hotel/Motel Demand (NEC 220-11) H = Hotel/Motel			0.0 kVA Hotel/Motel Demand (NEC 220-11)		H = Hotel/Motel				
0.0 kVA Arc Welders (NEC 630-11b,21b FPN) A= Arc Welders (MG, AC xfmr, DC rectifier) 0.0 kVA Resistance Welders (NEC 630-31b) W= Resistance Welders		0.0 kVA Arc Welders (NEC 630-11b,21b FPN) 0.0 kVA Resistance Welders (NEC 630-31b)  A= Arc Welders (MG, AC xfmr, DC rectifier) W= Resistance Welders			0.0 kVA Arc Welders (NEC 630-11b,21b FPN)		A= Arc Welders (MG, AC xfmr, DC rectifier)				
0.0 kVA Resistance weiders (NEC 630-31b) w= Resistance weiders  0.0 kVA Subpanel(s) P = Sub-Panel		0.0 kVA Resistance Welders (NEC 630-31b) W= Resistance Welders 0.0 kVA Subpanel(s) P = Sub-Panel			0.0 kVA Resistance Welders (NEC 630-31b) W= Resistance Welders			<b>I</b>			
0.0 kVA Thru fed Panel(s)		ı — Jud-Füllel		0.0 kVA Subpanel(s) 0.0 kVA Thru fed Panel(s)	١	r = Sub-ranei		1.6 kVA Subpanel(s)		P = Sub-Panel	<b>I</b>
0.8 Total kVA	2 Amne of VOI TAC	F: 120/240V 3P AW   Ice	land Skatina Rink	0.0 KVA Inru ted Panel(s)  0.8 Total kVA  2 Amps at VOLTAGE: 120/240V 3P, 4W   Iceland Skating Rink				0.0 kVA Thru fed Panel(s) 6.2 Total kVA			
0.8 Total kVA 2 Amps at VOLTAGE: 120/240V 3P, 4W   Iceland Skating Rink				U.O TOTOL KYA Z AMIDS OT VOLTAGE: 120/2409 3P, 4W I CHURU SKUURY KIRK				1 O.Z TOTOL KYA 13 AMPS OT VULTAGE: 120/24UV 3P, 4W TOGOTOL SKOULING KIIK			

Panel loaded at

% Phase Unbalance SF WARNING

ALLOWED LOAD:

Panel loaded at % PHASE IMBALANCE

Allowed Load:

Allowed Load:

% Phase Unbalance

## **GENERAL NOTES** SYMBOL LIST

LIGHTING

0

LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED

(NL) LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED

(NL) FLUORESCENT LIGHTING FIXTURE, RESESSED MOUNTED

FLUORESCENT LIGHTING FIXTURE, RECESSED MOUNTED

LIGHTING FIXTURE, WALL MOUNTED

FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED

- THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR DURING EXECUTION OF THE WORK, HOWEVER, THEY DO NOT COVER ALL OF THE SPECIFICATION REQUIREMENTS.
- INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES,(NEC).
- DO NOT SCALE ELECTRICAL PLANS FOR FIXTURES, DEVICE, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL PLANS.
- 4. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND NEC 110-3.
- MOUNT ALL RECEPTACLES OUTLETS AT +15" MIN. UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 6. MOUNT ALL TOGGLE SWITCHES AT +48" UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 7. TOTAL IMPEDANCE, CIRCUIT BREAKERS, PANELS, CONDUCTORS, AND ALL OTHER CIRCUIT COMPONENTS AND SHORT CIRCUIT CURRANT RATINGS SHALL BE COORDINATED SO THAT FAULTS CAN BE CLEARED WITHOUT EXTENSIVE DAMAGE TO CIRCUIT COMPONENTS PER CEC 110.10.
- 8. ALL ELECTRICAL PANEL BOARDS SWITCHBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROLS CENTERS REQUIRING EXAMINATION OR

		TEOORESCENT EIGHTING TIXTORE, SORTACE MOONTED
		LIGHTING FIXTURE, RECESSED MOUNTED
o.		FLUORESCENT STRIP FIXTURE, SURFACE MOUNTED
	₩₿↓	EXIT LIGHT FIXTURE WITH BATTERY BACK—UP, WALL MOUNTED ARROWS SHOWS DIRECTION
ᄔ	8	EXIT LIGHT FIXTURE, CEILING MOUNTED
		POLE MOUNTED FIXTURE
	₩	EMERGENCY LIGHT WITH BATTERY BACK-UP
	₩	SINGLE POLE TOGLE SWITCH, 15A 120-277V @ +48" ABOVE
HE		FINISHED FLOOR @ CENTER OF DEVICE.
R	<del>↔</del> 3	THREE WAY TOGGLE SWITCH, 15A 120-277V @ +48" ABOVE FINISHED FLOOR @ CENTER OF DEVICE.
OVE	↔ a,b,c	SUBSCRIPT DENOTES OUTLET/FIXTURE CONTROLLED @ +48" ABOVE FINISHED FLOOR @ CENTER OF DEVICE.
	OUTLETS	
	#	FOURPLEX RECEPTACLE OUTLET 15A, 125V, +15" MIN. ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
	Ф	DUPLEX RECEPTACLE OUTLET 15A, 125V, +15" MIN. ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
	Φ	208V, 3PH, 1PH RECEPTACLE OUTLET SIZE AS NOTED
		DUPLEX RECEPTACLE FLOOR OUTLET 15A, 125V FLUSH IN FINISH FLOOR COLOR AS NOTED.
	⊕ IG	DUPLEX RECEPTACLE OUTLET WITH AN ISOLATED GROUND, 15A 125V, +15" ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
	⊕IG	FOURPLEX RECEPTACLE OUTLET WITH AN ISOLATED GROUND, 15A 125V, +15" ABOVE FINISHED FLOOR @ BOTTOM OF DEVICE.
	▼ ▼	TELEPHONE OUTLET; FLOOR MOUNTED, 3/4"C. MOUNT TO ABOVE CEILING. WITH PULL ROPE, PROVIDE MUD RING.
	$\nabla \nabla$	DATA OUTLET; FLOOR MOUNTED, 3/4"C. MOUNT TO ABOVE CEILING, WITH PULL ROPE, PROVIDE MUD RING.
	<b>▼</b> P	PUBLIC TELEPHONE OUTLET
	<u> </u>	COMBINATION TELE/DATE OUTLET
	J	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED
	EQUIPMENT	
		MAIN SWITCH BOARD "MSB" SEE ONE LINE DIAGRAM
		BRANCH PANEL SURFACE MOUNTED
		BRANCH PANEL FLUSH MOUNTED  TERMINAL CABINET
	T	DISTRIBUTION TRANSFORMER, SIZE & MOUNTING AS NOTED
		MOTOR STARTER, SEE MP&S CONNECT AS REQUIRED
	F <sup>1</sup>	DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	F -> FUSED  MOTOR MP&S
	$\otimes$	EXHAUST FAN - MP&S
	AC-1	MECHANICAL EQUIPMENT I.D. TAG — MP&S
	1	NUMBERED NOTE SHOWN ON SAME SHEET
	A E1.1	DETAIL DESIGNATION, TOP LETTER INDICATES DETAIL, BOTTOM LETTER INDICATES SHEET NUMBER
	A1 100W MH 277V	FIXTURE DESIGNATION, DENOTES FIXTURE TYPE
	Ī ₩	TELEPHONE TERMINAL BOARD "TTB" 4'X8'x3/4" PLYWOOD BACKBOARD W/ FOURPLEX RECEPTACLE AND (1) #6 GND.
	⊢os <sup>dt</sup>	WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY
	os <sup>u</sup>	CEILING MOUNTED SENSOR SWITCH, ULTRASONIC
	⊢os P	WALL MOUNTED SENSOR SWITCH, PASSIVE INFRARED
	PP	POWER PACK, 120V
	WIRING	
		CIRCUIT CONCEALED IN CEILING OR WALL
•	·	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
		TANDEM FIXTURE, MASTER SLAVE MAKE—UP  HOME RUN TO PANELBOARD OR TERMINAL CABINET
	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	DENOTES # OF #12 WIRES, NO MARKS = 2 #12, 1/2"C.
	<del></del>	CURVED HATCH DENOTES IG. OTHERS AS NOTED
		CONDUIT RISER
<u>†</u>		CONDUIT RISER DOWN
4		STUBBED CONDUIT
†	ADDDD #1=	FLEX CONDUIT
4	<b>ABBREVIATK</b>	THE I
1	C	CONDUIT

CONDUIT ONLY WITH PULL ROPE

EMERGENCY BATTERY PACK

GROUND FAULT INTERRUPTER GFIC GROUND FAULT CIRCUIT INTERRUPTER

MP&S | SEE MECHANICAL PLANS AND SPECIFICATIONS EMPTY CONDUIT WITH NYLON PULL ROPE

PROVISION FOR FUTURE BREAKER

TELEPHONE TERMINAL BOARD

UNLESS OTHERWISE NOTED

WEATHER PROOF

EXISTING TO BE REMOVED OR RELOCATED

REFERENCE, REFER TO AND COORDINATE WITH

SYMBOLS INDICATES ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED

NOT IN ELECTRICAL SECTION OF THESE PLANS

C.O.

EXISTING

EVENING LIGHT

ISOLATED GROUND

NOT IN CONTRACT

AND SPECIFICATIONS

NIGHT LIGHT

(E)

EM

(N)

PFB PNL

UON

PROJECT NAME/ADDRESS

February 11, 2011

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a P

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DESIGN & DRAFTING SERVICES

320 W. 100 S.

G. COOPER DRAWN/DESIGNER CHECKED

PLAN CHECK COMMENTS
JANUARY 11, 2011

REVISIONS/DATES

ELECTRICAL ONELINE SYMBOLS, NOTES **& SCHEDULES** 

SHEET TITLE

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT TO THE 2010 CALIFORNIA ELECTRICAL CODE AND THE 2008 CALIFORNIA ENERGY CODE PER TITLE 24 STANDARDS.

**NEW SHEET**