

PANEL "SP1"		BRANCH PANELBOARD - NORMAL POWER													
LOCATION: FIELD 10 FED FROM: UTILITY MOUNTING: Surface ENCLOSURE: Type 3R		VOLTAGE: 480/277 PHASE: Three WIRES: 4W + G		AIG: 65000A MANS: 400A MGR: 400A		Load Type L= Lighting, R=Receptacle, M=Motors, Ho= Hospital K=Kitchen, H=Heat, Mi=Misc									
CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE	A	PHASE	B	PHASE	C	TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1				L	6094	6094					L			FIELD 9 LIGHT	2
3	FIELD 10 LIGHT	30	3	L			6094	6094			L	3	30		4
5				L					6094	6094	L				6
7				L	6094	6094					L				8
9	FIELD 10 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 9 LIGHT	10
11				L					6094	6094	L				12
13				L	6094	6094					L				14
15	FIELD 10 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 9 LIGHT	16
17				L					6094	6094	L				18
19				L	6094	6094					L				20
21	FIELD 10 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 9 LIGHT	22
23				L					6094	6094	L				24
25	SPORTS LIGHT CONTROL	15	2	Mi	1500						Mi	1	20	SPARE	26
27				Mi		1500					Mi	1	20	SPARE	28
29	SPARE	20	1									1	20	SPARE	30
TOTAL LOAD (KVA)					50.252		50.252		48.752						
TOTAL AMPS/PHASE					181.42		181.42		176.00						

LOAD SUMMARY				
LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS
LIGHTS	146.3	1.25 Continuous	182.8	
RECEPTACLES	0.0	Per NEC Table 220	0.0	TOTAL CONN. LOAD (KVA) 149.3
MOTORS	0.0	Per NEC Table 220	0.0	TOTAL DEMAND LOAD (KVA) 185.8
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT 1179.5
KITCHEN	0.0	Per NEC Table 220	0.0	TOTAL DEMAND CURRENT 223.5
HEAT	0.0	Per NEC Table 220	0.0	
MISC	3.0	1.00	3.0	

PANEL "SP3"		BRANCH PANELBOARD - NORMAL POWER													
LOCATION: FIELD 2 FED FROM: UTILITY MOUNTING: Surface ENCLOSURE: Type 3R		VOLTAGE: 480/277 PHASE: Three WIRES: 4W + G		AIG: 65000A MANS: 400A MGR: 400A		Load Type L= Lighting, R=Receptacle, M=Motors, Ho= Hospital K=Kitchen, H=Heat, Mi=Misc									
CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE	A	PHASE	B	PHASE	C	TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1				L	6094	6094					L			FIELD 3 LIGHT	2
3	FIELD 2 LIGHT	30	3	L			6094	6094			L	3	30		4
5				L					6094	6094	L				6
7				L	6094	6094					L				8
9	FIELD 2 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 3 LIGHT	10
11				L					6094	6094	L				12
13				L	6094	6094					L				14
15	FIELD 2 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 3 LIGHT	16
17				L					6094	6094	L				18
19				L	6094	6094					L				20
21	FIELD 2 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 3 LIGHT	22
23				L					6094	6094	L				24
25				L	6094	6094					L				26
27	FIELD 4 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 4 LIGHT	28
29				L					6094	6094	L				30
31				L	6094	6094					L				32
33	FIELD 4 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 4 LIGHT	34
35				L					6094	6094	L				36
37				L	6094	6094					L				38
39	SPORTS LIGHT CONTROL	15	2	Mi	1500						Mi	1	20	SPARE	40
41	SPARE	20	1									1	20	SPARE	42
TOTAL LOAD (KVA)					74.628		74.628		73.128						
TOTAL AMPS/PHASE					269.42		269.42		264.00						

LOAD SUMMARY				
LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS
LIGHTS	219.4	1.25 Continuous	274.2	
RECEPTACLES	0.0	Per NEC Table 220	0.0	TOTAL CONN. LOAD (KVA) 222.4
MOTORS	0.0	Per NEC Table 220	0.0	TOTAL DEMAND LOAD (KVA) 277.2
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT 267.5
KITCHEN	0.0	Per NEC Table 220	0.0	TOTAL DEMAND CURRENT 333.5
HEAT	0.0	Per NEC Table 220	0.0	
MISC	3.0	1.00	3.0	

LIGHT FIXTURE SCHEDULE										
FXTR. LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS # TYPE	BALLASTS # TYPE	FIXTURE VOLTAGE	FINISH	MOUNTING	FIXTURE VA	REMARKS/DESCRIPTION	SPECIFIC NOTES
SD									NEW SPORT LIGHTING	SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS
SJ									UPGRADED SPORTS LIGHTING	SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS

GENERAL NOTES (APPLY TO ALL LIGHTING):

- A ALL LIGHTING FIXTURES SHALL BE RATED FOR LIGHTING POWER CIRCUIT VOLTAGE. CONTRACTOR MUST VERIFY ALL LOCATIONS.
- B ELECTRICAL CONTRACTOR SHALL PROVIDE EACH LIGHTING FIXTURE COMPLETE WITH ALL INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH FIXTURE LOCATION.
- C ALL FIXTURES SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND LABELED. ALL LIGHTING FIXTURES EXPOSED TO WEATHER, MOISTURE, OR OTHER ENVIRONMENTS SHALL BEAR THE APPLICABLE ENVIRONMENTAL OR APPLICATION LABEL.
- D REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LIGHTING FIXTURES.
- E SHOP DRAWINGS: DIFFERENCES SHALL BE SPECIFICALLY NOTED ON THE "SHOP DRAWINGS." THIS INCLUDES BUT IS NOT LIMITED TO: FIXTURE SUBSTITUTIONS, LAMPS, VOLTAGE, MOUNTING, PHYSICAL DIMENSIONS AND FINISHES. FAILURE TO COMPLY DOES NOT RELIEVE THE CONTRACTOR OF DESIGN DOCUMENT INTENTION AND WILL NOT BE REASON FOR ADDITIONAL REIMBURSEMENT. ADDITIONAL REQUIREMENTS MAY BE FOUND ELSEWHERE IN THE DRAWINGS OR SPECIFICATIONS.

TRANSFORMER SCHEDULE						
MARK	PANEL SERVED	KVA RATING	PHASE	PRIMARY		NOTES
				VOLTAGE	CONNECTION	
TF-1	SP1	3	1	480	DELTA	1
TF-2	SP2	3	1	480	DELTA	1
TF-3	SP3	3	1	480	DELTA	1

NOTES:

- (1) PROVIDE ENCLOSED AND SEALED TRANSFORMER.

PANEL "SP2"		BRANCH PANELBOARD - NORMAL POWER													
LOCATION: FIELD 8 FED FROM: UTILITY MOUNTING: Surface ENCLOSURE: Type 3R		VOLTAGE: 480/277 PHASE: Three WIRES: 4W + G		AIG: 65000A MANS: 600A MGR: 600A		Load Type L= Lighting, R=Receptacle, M=Motors, Ho= Hospital K=Kitchen, H=Heat, Mi=Misc									
CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE	A	PHASE	B	PHASE	C	TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1				L	6094	6094					L			FIELD 8 LIGHT	2
3	FIELD 7 LIGHT	30	3	L			6094	6094			L	3	30		4
5				L					6094	6094	L				6
7				L	6094	6094					L				8
9	FIELD 7 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 8 LIGHT	10
11				L					6094	6094	L				12
13				L	6094	6094					L				14
15	FIELD 7 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 8 LIGHT	16
17				L					6094	6094	L				18
19				L	6094	6094					L				20
21	FIELD 7 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 8 LIGHT	22
23				L					6094	6094	L				24
25				L	6094	6094					L				26
27	FIELD 6 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 5 LIGHT	28
29				L					6094	6094	L				30
31				L	6094	6094					L				32
33	FIELD 6 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 5 LIGHT	34
35				L					6094	6094	L				36
37				L	6094	6094					L				38
39	FIELD 6 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 5 LIGHT	40
41				L					6094	6094	L				42
43				L	6094	6094					L				44
45	FIELD 6 LIGHT	30	3	L			6094	6094			L	3	30	FIELD 5 LIGHT	46
47				L					6094	6094	L				48
49	SPORTS LIGHT CONTROL	15	2	Mi	1500						Mi	1	20	SPARE	50
51				Mi		1500					Mi	1	20	SPARE	52
53	SPARE	20	1									1	20	SPARE	54
TOTAL LOAD (KVA)					99.004		99.004		97.504						
TOTAL AMPS/PHASE					357.42		357.42		352.00						

LOAD SUMMARY				
LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS
LIGHTS	292.5	1.25 Continuous	365.6	
RECEPTACLES	0.0	Per NEC Table 220	0.0	TOTAL CONN. LOAD (KVA) 295.5
MOTORS	0.0	Per NEC Table 220	0.0	TOTAL DEMAND LOAD (KVA) 368.6
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT 355.4
KITCHEN	0.0	Per NEC Table 220	0.0	TOTAL DEMAND CURRENT 443.4
HEAT	0.0	Per NEC Table 220	0.0	
MISC	3.0	1.00	3.0	

EXISTING

"MDP-A" CIRCUIT BREAKER DISTRIBUTION PANEL SCHEDULE					
BRANCH DISTRIBUTION - NORMAL POWER					
TYPE:	SQUARE D I-LINE HCM	MOUNTING:	SURFACE	AIC RATING:	50000
MAIN SIZE:	800A	VOLTAGE:	480	LOCATION:	STADIUM MECH RM.
MAIN BREAKER:	800A	PHASE:	SINGLE	SERVED BY:	UTILITY TRANSFORMER
MOUNTING SPACE:		WIRE:	2W		
CIRCUIT NO.	LOAD DESCRIPTION	FRAME (AMPS/POLE)	TRIP (AMPS)	CIRCUIT BREAKER TYPE	MOUNTING HEIGHT
1	TVSS	30/1	30		--
2	WATER HEATER	30/1	30		--
3	EUH-1	35/2	35		--
4	ECH-1	30/1	30		--
5	NORTHWEST FIELD LTG.	150/2	150		--
6	EVH-2	40/2	40		--
7	SOUTHWEST FIELD LTG.	150/2	150		--
8	SOUTHEAST FIELD LTG.	150/2	150		--
9	PANEL MDP-B	225/2	225		--
10	NORTHEAST FIELD LTG.	150/2	150		--
TOTALS					--

NOTES:

IMPROVEMENT

"MDP-A" CIRCUIT BREAKER DISTRIBUTION PANEL SCHEDULE					
BRANCH DISTRIBUTION - NORMAL POWER					
TYPE:	SQUARE D I-LINE HCM	MOUNTING:	SURFACE	AIC RATING:	50000
MAIN SIZE:	800A	VOLTAGE:	480	LOCATION:	STADIUM MECH RM.
MAIN BREAKER:	800A	PHASE:	SINGLE	SERVED BY:	UTILITY TRANSFORMER
MOUNTING SPACE:		WIRE:	2W		
CIRCUIT NO.	LOAD DESCRIPTION	FRAME (AMPS/POLE)	TRIP (AMPS)	CIRCUIT BREAKER TYPE	MOUNTING HEIGHT
1	TVSS	30/1	30		--
2	WATER HEATER	30/1	30		--
3	EUH-1	35/2	35		--
4	ECH-1	30/1	30		--
5	NORTHWEST FIELD LTG. (1)	150/2	80		--
6	ECH-2	40/2	40		--
7	SOUTHWEST FIELD LTG. (1)	150/2	80		--
8	SOUTHEAST FIELD LTG. (1)	150/2	80		--
9	PANEL MDP-B	225/2	225		--
10	NORTHEAST FIELD LTG. (1)	150/2	80		--
TOTALS					--

NOTES:

- (1) REPLACE EXISTING BREAKER IN PANEL WITH NEW BREAKER IN SAME LOCATION. MATCH EXISTING PANEL AIC RATING.



PHASE 5 - SPORTS FIELD LIGHTING
STRYKER SPORTS
 WICHITA, KANSAS



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ELECTRICAL SCHEDULES