PANEL "HA"

MAIN 200A, 3P — BUSS 225A CU. — SERVICE 480/277V, 3Φ, 4W — LOCATION ADMINISTRATION BLDG. — MOUNTING SURFACE — A.I.C. 14,000

DESCRIPTION	A	B	C	LTG	REC	MIC	BKR POLE	BKR AMP	CKT NO.	CKT NO.	BKR POLE	BKR AMP	LTG	REC	MIC	A	B	C	DESCRIPTION
OFN OFF,CORR,STOR LT.	1205			19			1	20	1	2		20			1	2522			AC-2A
OFF,CONF,RR,RETAIL LT.		1686		23			1	20	3	4							2522		9.1 FLA
* EXT. WALL MTD. LIGHTS			569	11			1	20	5	6	3							2522	----
* EXTERIOR CANOPY LTS.	516			6			1	20	7	8		70			1	15000			TRANSFORMER "TA"
LIGHTING CONTROL		200				1	1	20	9	10							15000		45 KVA
WH-3(MEN'S)			5500			1	1	30	11	12	3							15000	----
WH-3(WOMEN'S)	5500					1	1	30	13	14	1	20				-			SPARE
SPARE		-					1	20	15	16	1	20					-		SPARE
SPARE			-				1	20	17	18	1	20						-	SPARE
SPARE	-						1	20	19	20	1	-				-			SPACE
SPARE		-					1	20	21	22	1	-					-		SPACE
SPARE			-				1	20	23	24	1	-						-	SPACE
SPACE	-						1	-	25	26	1	-				-			SPACE
SPACE		-					1	-	27	28	1	-					-		SPACE
SPACE			-				1	-	29	30	1	-						-	SPACE
SPACE	-						1	-	31	32	1	-				-			SPACE
SPACE		-					1	-	33	34	1	-					-		SPACE
SPACE			-				1	-	35	36	1	-						-	SPACE
SPACE	-						1	-	37	38	1	-				-			SPACE
SPACE		-					1	-	39	40	1	-					-		SPACE
SPACE			-				1	-	41	42	1	-						-	SPACE
TOTALS:	7221	1886	6069													17522	17522	17522	
															TOTALS:	24743	19408	23591	
																A	B	C	

11,542 V.A. (L.C.L.) X 1.25 = 14,428 V.A.
OTHER LOAD = 56,200 V.A.
TOTAL = 70,628 V.A. TOTAL AMPS 85

* NOTE: PROVIDE TIME SWITCH "TORK #DZS400A" AND CONTACTORS, SQUARE D CLASS 8903 TYPE LG40 (3 EA.) TO CONTROL EXTERIOR LIGHTING CIRCUITS HA-5a, HA-5b & HA-7 (EACH ON A SEPARATE CHANNEL.) MOUNT TIME SWITCH AND CONTACTORS IN TOP OF PANEL "HA" IN SEPARATE BARRIERED COMPARTMENT WITH DOOR LOCK KEYED TO MATCH PANEL. CONNECT TIME SWITCH AND LIGHTING CONTACTOR CONTROL CIRCUIT TO HA-9.

PANEL "HC"

MAIN 400A, 3P — BUSS 400A CU — SERVICE 480/277V, 3Φ, 4W — LOCATION CONCESSION — MOUNTING SURFACE — A.I.C. 14,000

DESCRIPTION	A	B	C	LTG	REC	MIC	BKR POLE	BKR AMP	CKT NO.	CKT NO.	BKR POLE	BKR AMP	LTG	REC	MIC	A	B	C	DESCRIPTION
STOR,RR,JAN,ELEC. LTS.	816			18			1	20	1	2		30	6			6600			SOCCER ARENA 1 LTS.
KITCHEN,SERVING LTS.		586		8			1	20	3	4			5				5500		SOCCER ARENA 1 LTS.
* BUILDING FACADE LTS.			406	7			1	20	5	6	3		5					5500	SOCCER ARENA 1 LTS.
* CANOPY LIGHTS	406			7			1	20	7	8		30	5			5500			SOCCER ARENA 1 LTS.
LIGHTING CONTROL		200					1	20	9	10			6				6600		SOCCER ARENA 1 LTS.
* MLA MAINT. LTS.			938	2			1	20	11	12	3		5					5500	SOCCER ARENA 1 LTS.
* MLB MAINT. LTS.	938			2			1	20	13	14		30	6			6600			SOCCER ARENA 2 LTS.
SOCCER SEATING LTS.		1026		19			1	20	15	16			5				5500		SOCCER ARENA 2 LTS.
MINOR LEAGUE SEATING			324	6			1	20	17	18	3		5					5500	SOCCER ARENA 2 LTS.
TOT LOT AREA 1 LIGHTS	1620			30			1	20	19	20		30	5			5500			SOCCER ARENA 2 LTS.
TOT LOT AREA 2 LTS.		1944		36			1	20	21	22			5				5500		SOCCER ARENA 2 LTS.
MZ-MA			2500			1		20	23	24	3		6					6600	SOCCER ARENA 2 LTS.
MINOR LEAGUE A	2500						2		25	26	1	20				-			SPARE
MZ-MB		2500				1		20	27	28	1	20					-		SPARE
MINOR LEAGE B			2500				2		29	30	1	20						-	SPARE
GHU-1C	305					1		20	31	32	1	20				-			SPARE
----		305							33	34	1	20					-		SPARE
----			305				3		35	36	1	20						-	SPARE
AC-1C	2522					1		20	37	38		150			1	37500			TRANSFORMER "TC"
9.1 FLA		2522							39	40							37500		112.5 KVA
----			2522				3		41	42	3							37500	----
TOTALS:	9101	9083	9445													61700	60600	60600	
															TOTALS:	70801	69683	70095	
																A	B	C	

86,970 V.A. (L.C.L.) X 1.25 = 108,713 V.A.
OTHER LOAD = 123,615 V.A.
TOTAL = 232,328 V.A. TOTAL AMPS 279

* NOTE: PROVIDE TIME SWITCH "TORK #DZS400A" AND CONTACTORS, SQUARE D CLASS 8903 TYPE LG40 (2 EA.) TO CONTROL EXTERIOR LIGHTING CIRCUITS HC-5a, HC-7a (1 CHANNEL) AND HC-5b, HC-7b (1 CHANNEL.) MOUNT TIME SWITCH AND CONTACTORS IN TOP OF PANEL "HC" IN SEPARATE BARRIERED COMPARTMENT WITH DOOR LOCKED KEYED TO MATCH PANEL. CONNECT TIME SWITCH AND LIGHTING CONTACTOR CONTROL CIRCUIT TO HC-9.

PANEL "HM"

MAIN 100A, 3P — BUSS 100A CU. — SERVICE 480/277V, 3Φ, 4W — LOCATION MAINTENANCE — MOUNTING SURFACE — A.I.C. 14,000

DESCRIPTION	A	B	C	LTG	REC	MIC	BKR POLE	BKR AMP	CKT NO.	CKT NO.	BKR POLE	BKR AMP	LTG	REC	MIC	A	B	C	DESCRIPTION
* MAINT./STORAGE LTS.	2360			8			1	20	1	2		40			1	10000			TRANSFORMER "TM"
RESTRM,OFF,EXIT LTS.		94		5			1	20	3	4							10000		30 KVA
* EXTERIOR LIGHTS			406	7			1	20	5	6	3							10000	----
LIGHTING CONTROL	200					1	1	20	7	8	1	20				-			SPARE
WH-3		5500				1	1	30	9	10	1	20					-		SPARE
SPARE			-				1	20	11	12	1	20						-	SPARE
SPACE	-						1	-	13	14	1	-				-			SPACE
SPACE		-					1	-	15	16	1	-					-		SPACE
SPACE			-				1	-	17	18	1	-						-	SPACE
SPACE	-						1	-	19	20	1	-				-			SPACE
SPACE		-					1	-	21	22	1	-					-		SPACE
SPACE			-				1	-	23	24	1	-						-	SPACE
SPACE	-						1	-	25	26	1	-				-			SPACE
SPACE		-					1	-	27	28	1	-					-		SPACE
SPACE			-				1	-	29	30	1	-						-	SPACE
TOTALS:	2560	5594	406													10000	10000	10000	
															TOTALS:	12560	15594	10406	
																A	B	C	

2,860 V.A. (L.C.L.) X 1.25 = 3,575 V.A.
OTHER LOAD = 35,700 V.A.
TOTAL = 39,275 V.A. TOTAL AMPS 47

* NOTE: PROVIDE TIME SWITCH "TORK #DZS400A" AND CONTACTORS, SQUARE D CLASS 8903 TYPE LG40 (2 EA.) TO CONTROL EXTERIOR LIGHTING CIRCUITS HM-5a AND HM-5b (EACH ON A SEPARATE CHANNEL.) MOUNT TIME SWITCH AND CONTACTORS IN TOP OF PANEL "HM" IN SEPARATE BARRIERED COMPARTMENT WITH DOOR LOCKED KEYED TO MATCH PANEL. CONNECT TIME SWITCH AND LIGHTING CONTACTOR CONTROL CIRCUIT TO HM-7.

PANEL "HSC1"

MAIN 600A, 3P — BUSS 600A CU. — SERVICE 480/277V, 3Φ, 4W — LOCATION STADIUM CLUB BLDG. — MOUNTING SURFACE — A.I.C. 22,000

DESCRIPTION	A	B	C	LTG	REC	MIC	BKR POLE	BKR AMP	CKT NO.	CKT NO.	BKR POLE	BKR AMP	LTG	REC	MIC	A	B	C	DESCRIPTION
EF-1S	582					1		20	1	2		20			1	832			GHU-1S
----		582							3	4							832		----
----			582				3		5	6	3							832	----
AC-1S	3991					1		30	7	8		30			1	3991			AC-4S
14.4 FLA		3991							9	10							3991		14.4 FLA
----			3991				3		11	12	3							3991	----
AC-2S	3215					1		20	13	14		50			1	8203			AC-5S
11.6 FLA		3215							15	16							8203		29.6 FLA
----			3215				3		17	18	3							8203	----
AC-3S	3215					1		20	19	20		30			1	3991			AC-6S
11.6 FLA		3215							21	22							3991		14.4 FLA
----			3215				3		23	24	3							3991	----
CU-2S	9035					1		50	25	26	1	-				-			SPACE
32.6 FLA		9035							27	28	1	-					-		SPACE
----			9035				3		29	30	1	-						-	SPACE
SPACE	-						1	-	31	32	1	-				-			SPACE
SPACE		-					1	-	33	34	1	-					-		SPACE
SPACE			-				1	-	35	36	1	-						-	SPACE
PANEL "HSC2"	11683							100	37	38		300			1	75000			TRANSFORMER "TSC"
----		13552							39	40							75000		225 KVA
----			10833				3		41	42	3							75000	"PANEL LSC1"
TOTALS:	12430	33590	30871													92017	92017	92017	
															TOTALS:	124485	125607	122888	
																A	B	C	

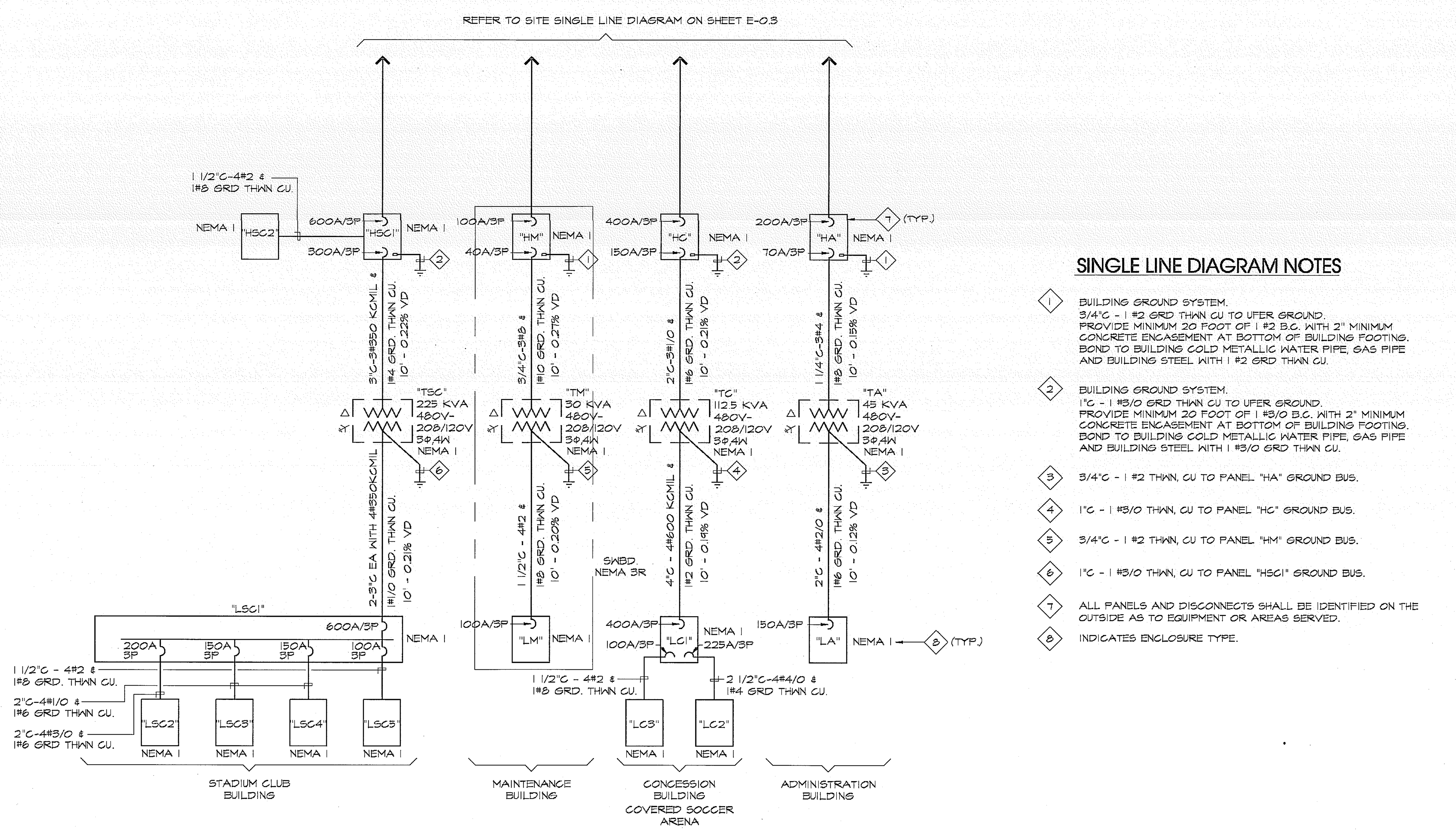
36,703 V.A. (L.C.L.) X 1.25 = 45,879 V.A.
OTHER LOAD = 336,277 V.A.
TOTAL = 382,156 V.A. TOTAL AMPS 460

PANEL "HSC2"

MAIN L.O. — BUSS 225A, CU — SERVICE 480/277V, 3Φ, 4W — LOCATION STADIUM CLUB BLDG. — MOUNTING SURFACE — A.I.C. 22,000

DESCRIPTION	A	B	C	LTG	REC	MIC	BKR POLE	BKR AMP	CKT NO.	CKT NO.	BKR POLE	BKR AMP	LTG	REC	MIC	A	B	C	DESCRIPTION
CORR,OFF,STOR,MENS LTS.	1354			24			1	20	1	2		20			1	2500			MZ-Y
KITCH,SERV,ARC,WOMN LT.		1371		24			1	20	3	4	2						2500		YANKEE STADIUM
VESTIBULE,EMER,EXIT LTS.			975	34			1	20	5	6		20			1			2500	MZ-D
EXTERIOR CANOPY LTS.	1914			33			1	20	7	8	2					2500			DODGER STADIUM
FLOODLIGHTS		1876		4			1	20	9	10		20			1		2500		MZ-F
FLOODLIGHTS			1876	4			1	20	11	12	2							2500	FENWAY PARK
EXTERIOR BUILDING LTS.	232			4			1	20	13	14		20			1	2500			MZ-A
RESTAURANT DOWNLIGHTS		990		18			1	20	15	16	2						2500		ANGEL STADIUM
DINING RM 5109 DOWNLTS			1045	19			1	20	17	18	1	20			1			500	LIGHTING CONTROL PANEL
DINING RM 5107 DOWNLTS	990			18			1	20	19	20	1	20				-			SPARE
DINING RM 5105 DOWNLTS		990		18			1	20	21	22	1	20					-		SPARE
DINING RM 5103 DOWNLTS			1045	19			1	20	23	24	1	20						-	SPARE
QUEUE 5113 DOWNLIGHTS	440			8			1	20	25	26	1	-				-			SPACE
BAR 5111 DOWNLIGHTS		825		15			1	20	27	28	1	-					-		SPACE
BAR 5111 DOWNLIGHTS			392	14			1	20	29	30	1	-						-	SPACE
SPARE	-						1	20	31	32	1	-				-			SPACE
SPARE		-					1	20	33	34	1	-					-		SPACE
SPARE			-				1	20	35	36	1	-						-	SPACE
SPACE	-						1	-	37	38	1	-				-			SPACE
SPACE		-					1	-	39	40	1	-					-		SPACE
SPACE			-				1	-	41	42	1	-						-	SPACE
TOTALS:	4930	6052	5333													7500	7500	5500	
															TOTALS:	12430	13552	10833	
																A	B	C	

16,315 V.A. (L.C.L.) X 1.25 = 20,394 V.A.
OTHER LOAD = 20,500 V.A.
TOTAL = 40,894 V.A. TOTAL AMPS 49



NOTE:
FEEDER LENGTHS SHOWN ARE FOR VOLTAGE DROP CALCULATIONS ONLY AND SHALL NOT BE USED FOR BID TAKE-OFF.

SINGLE LINE DIAGRAM NOT TO SCALE

SINGLE LINE DIAGRAM NOTES

1. BUILDING GROUND SYSTEM. 3/4"C - 1 #2 GRD THWN CU TO UFER GROUND. PROVIDE MINIMUM 20 FOOT OF 1 #2 B.C. WITH 2" MINIMUM CONCRETE ENCASEMENT AT BOTTOM OF BUILDING FOOTING. BOND TO BUILDING COLD METALLIC WATER PIPE, GAS PIPE AND BUILDING STEEL WITH 1 #2 GRD THWN CU.
2. BUILDING GROUND SYSTEM. 1"C - 1 #3/0 GRD THWN CU TO UFER GROUND. PROVIDE MINIMUM 20 FOOT OF 1 #3/0 B.C. WITH 2" MINIMUM CONCRETE ENCASEMENT AT BOTTOM OF BUILDING FOOTING. BOND TO BUILDING COLD METALLIC WATER PIPE, GAS PIPE AND BUILDING STEEL WITH 1 #3/0 GRD THWN CU.
3. 3/4"C - 1 #2 THWN, CU TO PANEL "HA" GROUND BUS.
4. 1"C - 1 #3/0 THWN, CU TO PANEL "HC" GROUND BUS.
5. 3/4"C - 1 #2 THWN, CU TO PANEL "HM" GROUND BUS.
6. 1"C - 1 #3/0 THWN, CU TO PANEL "HSC1" GROUND BUS.
7. ALL PANELS AND DISCONNECTS SHALL BE IDENTIFIED ON THE OUTSIDE AS TO EQUIPMENT OR AREAS SERVED.
8. INDICATES ENCLOSURE TYPE.

PANEL SCHEDULE INDEX

	HA	HC
		HM
		HSC1
		HSC2

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PERRIS VALLEY Big League Dreams

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SHEET TITLE
SINGLE LINE DIAGRAM & PANELBOARD SCHEDULES

100% CONSTRUCTION DOCUMENT

DATE	REVISIONS

STAMP
REGISTERED PROFESSIONAL ENGINEER CIRILO C. REGALADO JR. No. E16914 Exp. 6-30-11 ELECTRICAL STATE OF CALIFORNIA

CHECKED BY	DATE
LRA	
DATE 01-07-10	FILE NAME
DRAWN BY CR	SHEET EB-0.3
JOB NO. 05208.00	
SCALE NONE	163 OF 313 SHEETS