LIGHTING FIXTURE SCHEDULE - SITE

TYPE	FIXTURE INCAND.	FIXTURE FLUOR.	FIXTURE H.I.D.	FIXTURE LED	VOLTS	LAMPS NO.	LAMPS WATTS AND TYPE	MOUNTING REC.	MOUNTING CLG.	MOUNTING PEND.	MOUNTING WALL	DESCRIPTION & VARIATIONS	MANUFACTURER & CATALOG NUMBER (OR APPROVED EQUAL)
AA 250			•		480	2	90W LPS -					LOW PRESSURE SODIUM PARKING AREA LIGHT FIXTURE. SEE PARKING AREA LIGHT AND POLE STANDARD DETAIL ON SHEET E-5.1 -	U.S. ARCHITECTURAL LIGHTING # LP20-(ASY-II/IV-II)-2/90-LPS-480-(1/2-180)-BKM-DF POLE: # SNTS-305-7-(1/2-180)-BKM -
BB 61			•		277	1	50W HPS -					HIGH PRESSURE SODIUM WALK-WAY AREA LIGHT FIXUTRE. SEE SECURITY LIGHT AND POLE STANDARD DETAIL ON SHEET E-5.1 -	LSI LIGHTING # PTHS-(2/5)-50HPS-F-277-BLK-FK277 POLE (U.S. ARCHITECTURAL LTG.): # RNTS-154-11-(1/2-180)-BKM -
CC 469			•		277	1	400W MH PS					BATTING CAGE METAL HALIDE PULSE START FLOODLIGHT WITH TOP AND TWO SIDES VISOR. SEE LIGHT POST DETAIL ON SHEET E-3.1. -	G.E. LIGHTING SYSTEMS # PF4S-40-PMH-0-A-1-6X5-BLACK-K-TSVAL-P4F053 POLE (U.S. ARCHITECTURAL LTG.): # RNTS-164-11-(BKM-GLVBH)-2-180-(BKM-GLV)
JJ 44			•		277	1	35W MH T6/G12					IN-GROUND METAL HALIDE TREE UPLIGHT BY MONUMENT SIGN W/ CLEAR LENS, NARROW FLOOD REFLECTOR AND CONCRETE POUR COLLAR -	WINONA LIGHTING - WINSCAPE # 85-XL-NF-277V-L4-LO-BRZ-FO-SHO-TF-PC-STD - - -
JJ1 44			•		277	1	35W MH T6/G12					IN-GROUND METAL HALIDE UPLIGHT FOR MONUMENT SIGN W/ CLEAR LENS, WIDE FLOOD REFLECTOR AND CONCRETE POUR COLLAR -	WINONA LIGHTING - WINSCAPE # 85-XL-WF-277V-L4-LO-BRZ-FO-SHO-TF-PC-STD - - -
KK 44			•		277	1	35W MH PAR30					METAL HALIDE UPLIGHT FOR MONUMENT SIGN (BASEBALLS) WITH WATERSHED LENS, FLOOD REFLECTOR, 45° CUTOFF CAP STYLE, INGRADE BALLAST AND CONCRETE POUR COLLAR	WINONA LIGHTING - WINSCAPE # 73-UB-L4-NBS-FO-SHO-C3-BI-PC-STD - -
KK1 86			•		277	1	70W MH PAR38					METAL HALIDE UPLIGHT FOR MONUMENT SIGN WITH WATERSHED LENS, WIDE FLOOD REFLECTOR, 45° CUTOFF CAP STYLE, INGRADE BALLAST AND CONCRETE POUR COLLAR	WINONA LIGHTING - WINSCAPE # 78-UB-L4-NBS-FO-SHO-C3-BI-PC-STD - -
LL 1100			•		277	1	1000W MH -			•		SOCCER ARENA METAL HALIDE LUMINAIRE W/ REMOTE BALLAST ENCLOSURE AND W/ MULTI-WATT CONTROL FOR 50% CONTROL FEATURE -	MUSCO # GYMPACK-3-277V WITH MULTI-WATT CONTROL - -
MM 54		•			277	2	32W F32T8 41K		•			4' SURFACE MTD. FLUORESCENT FIXTURE WITH INSTANT START ELECTRONIC BALLAST, WET LOCATION LISTED. FOR EXTER. SHADE STRUCTURES. -	NEW STAR LIGHTING CO. # NSL4-T8(2)32-EBU-EB-9002-FUS-TDM(TANDEM MOUNT IF NECESSARY) -
NN 168			•		277	1	150W MH -					FLAG POLE METAL HALIDE UP-LIGHT, DIRECT BURIAL TYPE, WITH VARIABLE SPOT OPTICS AND BRASS LENS RETAINER, WET LOCATION LISTED. SEE DETAIL ON SHEET E-5.1.	LSI LIGHTING # RDB-150MH-277-SPV-BLR - - - -
PP 22		•			120	1	17W F17T8 -		•			2 FT. FLUORESCENT FIXTURE SURFACE MOUNTED INSIDE THE SWITCHBOARD HOUSING, WITH INSTANT START ELECTRONIC BALLAST. SEE SWITCHBOARD DETAILS ON SHEET E-0.3 & E-5.1	LSI LIGHTING # EG4-1-17-SS010-UE - - - -
QQ 469			•		277	1 1	400W HPS 250W QUARTZ					MINOR LEAGUE MAINTENANCE FLOODLIGHT WITH TOP AND TWO SIDES VISOR. POLE MOUNTED SEE DETAIL ON SHEET E-5.0 -	G.E. LIGHTING SYSTEMS # PF4S-24-S-0-A-1-6X5-BLACK-K-Q-TSVAL-P4F053

LIGHTING FIXTURE NOTES

1. THIS CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING ANY NEW FIXTURES. HE IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT THE CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING PROPER TYPES OF TRIMS ALL RECESSED FLUORESCENT FIXTURES TO FIT THE CEILING BEING INSTALLED.
4. ALL NEW FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE, COOL WHITE EQUAL TO G.E. - "WATTMISER 2", OR SYLVANIA - "SUPER SAVER" LAMPS.
5. ALL BALLASTS SHALL BE HIGH FREQUENCY ELECTRONIC TYPE SUITABLE FOR LAMPS SPECIFIED. 97% BALLAST FACTOR MINIMUM AND TRANSIENT HARMONIC DISTORTION OF LESS THAN 10 PERCENT.
6. ALL LUMINAIRES/BALLASTS SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
7. FIXTURE TYPE IN CONTACT WITH INSULATION SHALL BE U.L. APPROVED FOR THERMAL BARRIER.
8. SUBMIT LIGHTING FIXTURE CUTS FOR OWNER/ARCHITECT OR ENGINEER'S APPROVAL.
9. ALL EXTERIOR LIGHTING FIXTURES SHALL HAVE THE APPROPRIATE DAMP OR WET LOCATION LABELS PER N.E.C. 410-4.

ELECTRICAL WIRING LEGEND

1/2"C - 2#12 | 1/2"C - 3#12 | 3/4"C - 4#12
3/4"C - 5#12 | 1"C - 6#12 | 1"C - 7#12
#10 1/2"C - 2#10 | #10 3/4"C - 3#10 | #10 3/4"C - 4#10
#10 1"C - 5#10 | #8 3/4"C - 2#8 | #8 1"C - 3#8
#8 1"C - 4#8 | #6 1"C - 2#6 | #6 1"C - 3#6
#6 1 1/4"C - 4#6 | #4 1 1/4"C - 2#4

ISOLATED GROUND WIRE. RUN IN ADDITION TO REGULAR GROUND WIRE.

NOTES:

1. IN ADDITION TO PHASE AND NEUTRAL WIRES SHOWN ABOVE, ONE GROUND WIRE SHALL BE ADDED IN EACH CONDUIT RUN. GROUND WIRE SHALL BE SIZED PER C.E.C. BUT NOT SMALLER THAN #12.
2. CONDUIT SIZE SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE NOTED ON THE PLANS.

UNDERGROUND PULL BOX LEGEND

A — 10 1/2"W X 17"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE STEEL COVER MARKED "ELECTRIC". BROOKS #3 1/2 PB SERIES OR APPROVED EQUAL. SET PULL BOX ON 12" COMPACTED ROCK.

B — 12"W X 22"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE STEEL COVER MARKED "ELECTRIC". BROOKS #5 PB SERIES OR APPROVED EQUAL. SET PULL BOX ON 12" COMPACTED ROCK.

C — 17"W X 30"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE STEEL COVER MARKED "ELECTRIC". BROOKS #66 PB SERIES OR APPROVED EQUAL. SET PULL BOX ON 12" COMPACTED ROCK.

D — 2'-0"W X 3'-0"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE STEEL COVER MARKED "ELECTRIC". BROOKS #100FPB SERIES OR APPROVED EQUAL. SET PULL BOX ON 12" COMPACTED ROCK.

E — 4'-0"W X 4'-0"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE SPRING ASSISTED HINGED STEEL COVER MARKED "ELECTRIC". PROVIDE COMPLETE WITH COVER HOLD OPEN DEVICE ASSEMBLY, GUARD BAR, GUARD BAR SOCKET AND COVER LIFT DEVICE. BROOKS 300 FPB WITH STYLE ES COVER. SET PULL BOX ON 12" COMPACTED ROCK.

CS — 17"W X 30"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE STEEL COVER MARKED "SIGNAL". BROOKS #66 PB SERIES OR APPROVED EQUAL. SET PULL BOX ON 12" COMPACTED ROCK.

DS — 2'-0"W X 3'-0"L X 24"D UNDERGROUND PRECAST CONCRETE PULL BOX WITH BOLTED DOWN TRAFFIC TYPE STEEL COVER MARKED "SIGNAL". BROOKS #100FPB SERIES OR APPROVED EQUAL. SET PULL BOX ON 12" COMPACTED ROCK.

NOTE: PULL BOX SHOWN ON PLAN WITHOUT LETTER ADJACENT SHALL BE TYPE "A".

SECURITY SYSTEM LEGEND

- INTRUSION DETECTION DOOR SWITCH, CONCEALED IN DOOR FRAME, ROLLER BALL TYPE UNLESS NOTED OTHERWISE
- PASSIVE INFRARED MOTION DETECTOR
- EXTERNAL PASSIVE INFRARED MOTION DETECTOR
- DIGITAL KEY PAD FOR SECURITY SYSTEM, MOUNT AT +48 INCHES FROM FIN. FLOOR TO CENTER
- SECURITY SYSTEM SIREN
- —SI— SECURITY SYSTEM CONDUIT, 3/4" C WITH SECURITY CABLES OR AS NOTED ON DRAWINGS

ELECTRICAL SHEET INDEX

SHEET NO:	DESCRIPTION
E-0.1	ELECTRICAL SYMBOL LIST AND LIGHTING FIXTURE SCHEDULE
E-0.2	ELECTRICAL GENERAL NOTES
E-0.3	SINGLE LINE DIAGRAM
E-0.4	PANELBOARD SCHEDULES
E-0.5	PANELBOARD SCHEDULES
E-0.6	LIGHTING CONTROL DIAGRAMS
E-0.7	LIGHTING CONTROL DIAGRAMS
E-1.0	ELECTRICAL SITE POWER PLAN
E-1.1	ELECTRICAL SITE POWER PLAN
E-1.2	ELECTRICAL SITE POWER PLAN
E-1.3	ELECTRICAL SITE POWER PLAN
E-1.4	ELECTRICAL SITE POWER PLAN
E-1.5	ELECTRICAL SITE POWER PLAN
E-2.0	ELECTRICAL SITE LIGHTING PLAN
E-2.1	ELECTRICAL SITE LIGHTING PLAN
E-2.2	ELECTRICAL SITE LIGHTING PLAN
E-2.3	ELECTRICAL SITE LIGHTING PLAN
E-2.4	ELECTRICAL SITE LIGHTING PLAN
E-2.5	ELECTRICAL SITE LIGHTING PLAN
E-3.0	BATTING CAGE ELECTRICAL PLAN
E-3.1	BATTING CAGE ELECTRICAL DETAILS
E-4.0	COVERED SOCCER ARENA LIGHTING PLAN
E-4.1	COVERED SOCCER ARENA POWER PLAN
E-4.2	SHADE STRUCTURES ELECTRICAL PLAN
E-5.0	SPORTS FIELDS POLE DETAILS
E-5.1	ELECTRICAL DETAILS

ELECTRICAL SYMBOL LIST

SPORT LIGHT POLE AND LUMINAIRES
- A1 — POLE NUMBER
- HS1-1,3,5 — CIRCUIT NUMBER
- A/E-5.0 — DETAIL NO./SHEET NO.
- 95', 130' — X,Y COORDINATES 0,0 AS INDICATED ON PLAN

- PARKING AREA LIGHT FIXTURE AND POLE
- WALKWAY/SECURITY LIGHT FIXTURE AND POLE
- A — UNDERGROUND PULL BOX, "A" INDICATES TYPE OF PULL BOX SEE UNDERGROUND PULL BOX LEGEND ON THIS SHEET AND DETAIL ON SHEET E-
- FLUORESCENT LIGHTING FIXTURE, RECESSED IN CEILING
- FLUORESCENT LIGHTING FIXTURE WITH CIRCLE INDICATES EMERGENCY BATTERY UNIT
- FLUORESCENT LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED
- FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED
- FLUORESCENT STRIP LIGHTING FIXTURE
- INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED
- INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. LIGHTING FIXTURE, RECESSED MOUNTED
- INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. LIGHTING FIXTURE, WALL MOUNTED
- INCANDESCENT LIGHTING FIXTURE, PENDANT MOUNTED
- EXIT SIGN LIGHTING FIXTURE, DIRECTIONAL ARROW AS SHOWN
- EMERGENCY LIGHTING FIXTURE
- DUPLEX RECEPTACLE MOUNTED AT +18" OR AS NOTED, GROUNDING TYPE
- FLOOR MOUNTED DUPLEX RECEPTACLE, GROUNDING TYPE
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE DUPLEX RECEPTACLE MOUNTED AT +18" OR AS NOTED, GROUNDING TYPE
- G — ANY RECEPTACLE WITH "G" SHALL BE ISOLATED GROUND TYPE
- DOUBLE DUPLEX RECEPTACLE MOUNTED AT +18" OR AS NOTED, GROUNDING TYPE
- SPECIAL PURPOSE RECEPTACLE AS INDICATED ON PLAN
- JUNCTION BOX, WALL MOUNTED
- JUNCTION BOX, CEILING MOUNTED
- TELEVISION OUTLET
- EXHAUST FAN
- MOTOR
- TELEPHONE OUTLET, FLUSH WALL MOUNTED AT +18" OR AS NOTED PROVIDE 3/4" C.O. TO TELEPHONE/SIGNAL BACKBOARD
- DATA OUTLET, FLUSH WALL MOUNTED AT +18" OR AS NOTED PROVIDE 3/4" C.O. TO TELEPHONE/SIGNAL BACKBOARD
- COMBINATION DATA/TELEPHONE OUTLET FLUSH WALL MOUNTED AT +18" OR AS NOTED. PROVIDE 3/4" C.O. TO TELEPHONE/SIGNAL BACKBOARD
- $ — TOGGLE SWITCH, SINGLE POLE, FLUSH MOUNTED AT +48" OR AS NOTED
- $3 — THREE-WAY TOGGLE SWITCH, FLUSH MOUNTED AT +48" OR AS NOTED
- $M — MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION, 1 OR 2 POLE AS REQUIRED, MOUNTED AT +48" OR AS NOTED
- $K — KEYED SWITCH, SINGLE POLE, FLUSH MOUNTED AT +48" OR AS NOTED
- $F — CEILING FAN SWITCH
- S — WALL MOUNTED OCCUPANCY SENSOR, SINGLE CIRCUIT, MOUNT AT +48" WATT STOPPER #PW-100 OR EQUAL
- S a,b — WALL MOUNTED OCCUPANCY SENSOR, TWO CIRCUITS, MOUNT AT +48" WATT STOPPER #PW-200 OR EQUAL
- OS — CEILING MOUNTED OCCUPANCY SENSOR COMPLETE WITH AUXILIARY RELAYS, POWER PACKS AND CONNECTORS, WATT STOPPER #DT-300 OR EQUAL. POWER PACKS SHALL BE FULLY RATED AT 20 AMPS.
- D — DIMMER SWITCH, FLUSH MOUNTED AT +48" OR AS NOTED
- LV — LOW VOLTAGE SWITCH, FLUSH MOUNTED AT +48" OR AS NOTED
- EXHAUST FAN CONTROLLED BY LIGHT SWITCH
- TH — 2 CHANNEL DIGITAL TIME SWITCH
- T — THERMOSTAT OUTLET, FLUSH MOUNTED AT +48" OR AS NOTED. PROVIDE 1/2" C.O. TO CORRESPONDING H.V.A.C. UNIT.
- SD — SMOKE DETECTOR
- DISCONNECT SWITCH, HORSEPOWER RATED, HEAVY DUTY. "F" DENOTES FUSED TYPE.
- MAGNETIC MOTOR STARTER
- LIGHTING OR RECEPTACLE PANELBOARD @ +6'-6" TO TOP
- TELEPHONE/DATA TERMINAL BACKBOARD
- A-1,3 — HOMERUN TO PANEL "A", CIRCUITS #1 & #3 WITH WIRES AS NOTED
- A / 83 — FIXTURE DESIGNATION, "A" = FIXTURE TYPE, 46 = TOTAL WATTS
- 2 — INDICATES PLAN NOTE #2
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL
- CONDUIT RUN CONCEALED IN OR BELOW FLOOR OR GRADE
- FLEXIBLE CONDUIT
- TRUMPET TYPE SPEAKER COMPLETE WITH OUTLET BOX. REFER TO ELECTRICAL SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- M — MICROPHONE OUTLET
- —S— PUBLIC ADDRESS SYSTEM CONDUIT, "S" INDICATES 3/4"C WITH 1-2/C #16
- —2S— SPEAKER CABLE, "2S" INDICATES 3/4"C WITH 2 - 2/C #16 SPEAKER CABLES
- —SI— SECURITY SYSTEM CONDUIT, 3/4" C.O. OR AS NOTED ON DRAWINGS
- WP — INDICATES WEATHERPROOF
- C.O. — INDICATES CONDUIT ONLY
- GFI — INDICATES GROUND FAULT INTERRUPTER
- A.F.G. — INDICATES ABOVE FINISHED GRADE
- A.F.F. — INDICATES ABOVE FINISHED FLOOR
- U.N.O. — UNLESS NOTED OTHERWISE

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

MIG

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SHEET TITLE

ELECTRICAL SYMBOL LIST AND LIGHTING FIXTURE SCHED.

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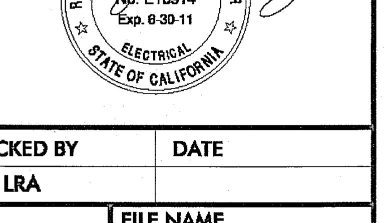

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