POWER and LIGHTING

20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE. HUBBELL #5362I. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.

TWO 20 AMP, 125 VOLT DUPLEX GROUNDING TYPE RECEPTACLES. HUBBELL #5362I MOUNT IN COMMON BOX WITH COMMON PLATE AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.

20 AMP, 125 VOLT, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE. HUBBELL #GF-5362I. MOUNT AT 18" AFF TO

20 AMP, 125 VOLT, DUPLEX GROUND FAULT ICIRCUIT NTERRUPTER TYPE RECEPTACLE. HUBBELL #GF-5362I, WITH WEATHERPROOF COVERPLATE. MOUNT AT 24" AFG UNLESS NOTED OTHERWISE.

STANDARD STEEL JUNCTION BOX WITH COVER IN AN ACCESSIBLE LOCATION. LOCATE AND CONNECT AS DIRECTED. FLOOR MOUNTED JUNCTION BOX.

20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL12211. MOUNT AT 44" AFF TO CENTERLINE NOTED OTHERWISE. 20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL12211. PROVIDE WEATHERPROOF COVER WITH HINGE ON TOP. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.

20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL12211. SURFACE MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.

FLUORESCENT, INCANDESCENT, LED, AND/OR HID LIGHTING FIXTURE COMPLETE WITH LAMPS. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

SWITCHBOARD, UNIT SUBSTATION, OR MOTOR CONTROL CENTER. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.

LIGHTING AND APPLIANCE PANEL BOARD - FLUSH MOUNTED REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS. LIGHTING AND APPLIANCE PANEL BOARD — SURFACE MOUNTED REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.

POWER TRANSFORMER. SIZE AND TYPE NOTED ON PLANS.

PHOTOCELL. REFER TO DRAWINGS FOR DETAILS.

REFER TO SPECIFICATIONS FOR DETAILS.

0

1-0-1

TIME CLOCK. REFER TO DRAWNGS FOR DETAILS.

RACEWAY AND CONDUCTORS CONCEALED ABOVE CEILING OR IN WALL AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING

CONDUIT BELOW FLOOR OR UNDERGROUND. DEPTH OF UNDERGROUND CONDUITS SHALL BE PER NEC.

RACEWAY DOWN. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

RACEWAY UP. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

m

FLEXIBLE METAL CONDUIT OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (REFER TO SPECIFICATIONS) AND WIRING. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

CONCEALED BRANCH CIRCUIT HOMERUN. FOR NORMAL BRANCH CIRCUIT WIRING CONTRACTOR MAY COMBINE UP TO THREE CIRCUITS IN ONE RACEWAY. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

(1) THE QUANTITY AND AMPACITY OF BRANCH CIRCUIT CONDUCTORS, UNLESS NOTED OTHERWISE, OR AS REQUIRED BY THE ELECTRICAL SPECIFICATIONS, SHALL FOLLOW THE STANDARD OF ONE #12 AWG CONDUCTOR PER CIRCUIT/PHASE SHOWN PLUS ONE #12 AWG NEUTRAL CONDUCTOR (WHERE A NEUTRAL CONDUCTOR IS REQUIRED) FOR A TYPICAL THREE CIRCUIT OR LESS HOMERUN.

(2) WHEN SERVING FLUORESCENT AND/OR HID LIGHTING, COMBINED BRANCH CIRCUIT HOMERUN NEUTRAL CONDUCTOR SHALL BE CONSIDERED AS A CURRENT CARRYING CONDUCTORS AND ALL RESPECTIVE RACEWAY CONDUCTORS SHALL BE DE-RATED PER NEC.

(3) BRANCH CIRCUITS SERVING COMPUTER RECEPTACLES MAY BE COMBINED PROVIDING EACH BRANCH CIRCUIT IS EITHER WRED WITH A SEPARATE NEUTRAL OR THE SHARED NEUTRAL IS OVERSIZED. EACH NEUTRAL SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR AND ALL RESPECTIVE RACEWAY CONDUCTORS SHALL BE DE-RATED PER NEC.

RACEWAY AND CONDUCTORS RUN EXPOSED ON CEILING OR WALLS AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

ONE LINE DIAGRAMS

POWER TRANSFORMER. REFER TO DRAWINGS, SCHEDULES, AND SPECIFICATIONS FOR DETAILS.

GROUND.

CIRCUIT BREAKER. -G-GROUND BUS. -N-

NEUTRAL BUS. UTILITY CO. (OR OWNER) WATT HOUR/DEMAND METER. COORDINATE TYPE AND INSTALLATION

WITH UTILITY CO. REPRESENTATIVE.

NORMALLY OPEN CONTACTOR.

NORMALLY CLOSED CONTACTOR.

MLO PANEL BOARD. REFER TO DRAWINGS, PANELBOARD SCHEDULES, AND SPECIFICATIONS FOR DETAILS.

MCB PANEL BOARD. REFER TO DRAWINGS, PANELBOARD SCHEDULES, AND SPECIFICATIONS FOR DETAILS.

SPIRE SITE ELECTRICAL PLAN

FAULT CALCULATION POINT.

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

THESE DRAWINGS ARE DIAGRAMMATIC. THE ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE THE NECESSARY QUANTITY OF CONDUCTORS FOR SWITCHING AS SHOWN ON THE DRAWINGS IN ORDER TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL.

ALL PENETRATIONS OF FIRE RATED FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITER LAB-ORATORIES LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS. THE CON-TRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT/ENGINEER AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

ABBREVIATIONS

ALTERNATE

AMPERE(S)

CONDUCTOR

KILOWATT(S)

CIRCUIT BREAKER

DIMMER CONTROL

CIRCUIT

CONDUIT

COPPER

AFG

ALT

AWG

CKT

COND

GND

H.P.S.

kVA

CB

ABOVE FINISHED FLOOR LIGHTING PANEL ABOVE FINISHED GRADE MANHOLE MTS MANUAL TRANSFER SWITCH AMERICAN WIRE GAGE MECHANICAL CONTRACTOR MICROPHONE MTR MOTOR MOTOR CONTROL CENTER MOUNTING HEIGHT NOT TO SCALE NOT IN CONTRACT OVERLOAD ELEMENT ELECTRICAL METALLIC TUBING POLYVINYL CHLORIDE PRIMARY

GENERATOR GROUND RECEPT RECEPTACLE GROUND FAULT INTERRUPTER SECONDARY SURFACE METAL RACEWAY HIGH INTENSITY DISCHARGE SWITCH HIGH PRESSURE SODIUM TERMINAL BOX INTERMEDIATE METALLIC CONDUIT TYPICAL

UTILITY INFORMATION

CONTACT:

MARILYN CHATWOOD

& CHRIS WESTLING (602) 493-4432

INCANDESCENT TRANSFORMER JUNCTION BOX TRANSFER KILOVAR(S) UNDERGROUND KILOVOLT AMPERE(S) UNLESS NOTED OTHERWISE

> VOLT(S) VOLTAMP(S) WATT(S) WEATHERPROOF

KEY NOTES

PROMENADE

TEMPORARY APS PAD MOUNTED TRANSFORMER. COORDINATE LOCATION WITH APS AND GENERAL CONTRACTOR TO MINIMIZE CONFLICTS DURING VISITOR CENTER CONSTRUCTION. TRANSFORMER SHALLS BE APS STANDARD COLOR TO MATCH OTHER PAD MOUNTED TRANSFORMERS ON SITE.

PROMENADE

TALIESIN

ARCHITECTS

TALIESIN WEST SCOTTSDALE, ARIZONA 85261-4430

TEL 480 860 2700 FAX 480 860 8472

SCOTTSDALE, ARIZONA

NOTES

2 2-1/2" SCHEDULE 40 PVC CONDUIT.

1-1/2" SCHEDULE 40 PVC CONDUIT WITH NYLON PULL-STRING STUBBED AND CAPPED AT LIMITS OF CONSTRUCTION. CLEARLY MARK STUB LOCATION.

LOAD CENTER 'SP'.

TEMPORARY PEDESTAL MOUNTED METER PER APS REQUIREMENTS.

(12) 3/4" C, (10) 1"C. AND (8) 3/4"C. (SPARES) SCHEDULE 40 PVC CONDUIT STUBBED OUT 5' FROM BEYOND BUILDING WALL FOR FUTURE LANDSCAPE LIGHTING AND RECEPTACLES. CLEARLY MARK STUB LOCATION.

EMPTY 3/4"C. FOR FUTURE BUS SHELTER STUB AS SHOWN

(1) 2" C. CONNECT TO CONDUITS PROVIDED UNDER SITE PACKAGE.



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COORDINATION REVISION CITY COMMENTS REVISION February 7, 2003 DATE ARNOLD ROY ARCHITECT GUSTAD PROJECT MANAGER TA 0114 PROJECT NUMBER SCALE 1/16"=1'-0" DRAWN BY CHECKED BY J. YURKUS

> ELECTRICAL SITE POWER SYMBOL LIST

> > SHEET NUMBER SE

TALIESIN ARCHITECTS, LTD.

BUS BAY OVERHANG ENCLOSURE BUILDING TO SES IN VISITORS SETBACK CONNECTION LOW WALL

SCALE: 1/16"=1'-0"

Baltes/Valentino Associates, Limited

are received from the contractor.

ARIZONA REVISED STATUTES 32-1129.01.

NOTICE OF EXTENDED PAYMENT PROVISION.

NOTICE OF EXTENDED CERTIFICATION AND APPROVAL PERIOD

This contract allows the owner to certify and approve billings and estimates within 30 days after the billings and estimates

This contract allows the owner to make payments within 30

days after certification and approval of billings and

www.bvaeng.com E-Mail cad@bvaeng.com

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E-MAIL cod@bvasng.com www.bvasng.co

DESIGNED BY: J. YURKUS DRAWN BY: TCK

PROVISION.

PROMENADE SPIRE

SCOTTSDALE, ARIZONA

TALIESIN ARCHITECTS TALIESIN WEST SCOTTSDALE, ARIZONA 85261-4430 TEL 480 860 2700 FAX 480 860 8472

O KEY NOTES

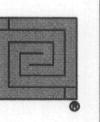
2 RECEPTACLE FOR TO FIXTURE.

LOCATED IN ACCESS PIPE.

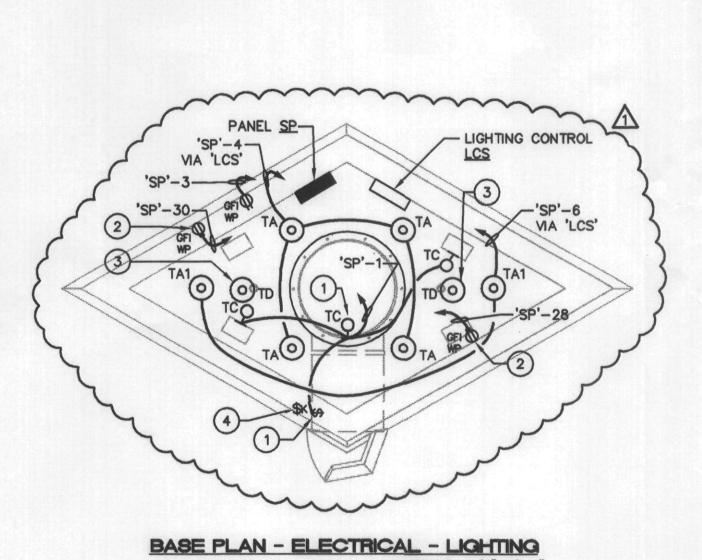
EXACT LOCATION AND AIMING DETERMINED IN THE FIELD AS DIRECTED BY CREATIVE DESIGNS

minim

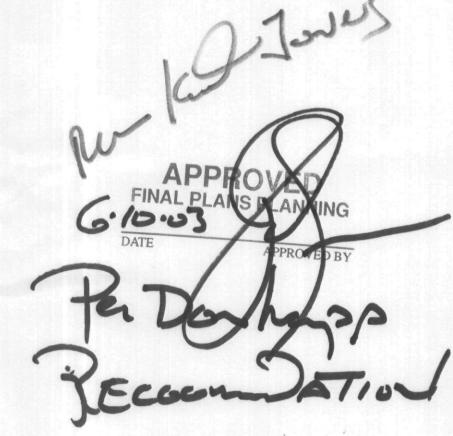
SEE ONE-LINE DIAGRAM ON DWG SE4



TAG	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	OR APPROVED EQUAL BY	LAMPING		VOLTS	MOUNTING	ON	OFF
					#	TYPE				
TA	HID FOCUSING ADJUSTABLE FLOOD WITH PARABOLIC REFLECTOR, HOOD SHIELD AND 5000' K CCT LAMP	ARCHITECTURAL AREA LIGHTING	OLR-175MH17/ LLR/MST	NONE	1	MH 175W/U/5K VENTURE	120	POST		CELL DAW
TA1	HID FOCUSING ADJUSTABLE FLOOD WITH PARABOLIC REFLECTOR, WIDE-ANGLE LENS AND 5000° K CCT LAMP	ARCHITECTURAL AREA LIGHTING	OLR-175MH17/ LWA/MST	NONE	1	175W MH	120	POST		PHOT CELL DAW
<u></u>	WADDEDDOOF OOUDLOT FLUODESCENT		GFWF32H12G-GPC	CUE		CFT32W/GX24q/835			CWITCH	CWIT
TC	VAPORPROOF COMPACT FLUORESCENT WALL MOUNTED FIXTURE	CANLET	Gr Wr 32H12G-GFC	GUTH MORLIGHT		CF 132W/GX24q/635	120	WALL	SWITCH	SWIT
TD	HID FOCUSING FLOOD LIGHT	STERNER	595-N-N-N-J- 10X10-1000-H-120- E-12' CORD	NONE	1	MH 1000W/A/5K VENTURE	120	YOKE	PHOTO CELL DUSK	CELL



SCALE: 1/4"=1'-0"



ARIZONA REVISED STATUTES 32-1129.01.

NOTICE OF EXTENDED CERTIFICATION AND APPROVAL PERIOD PROVISION.

This contract allows the owner to certify and approve billings and estimates within 30 days after the billings and estimates are received from the contractor.

NOTICE OF EXTENDED PAYMENT PROVISION. This contract allows the owner to make payments within 30 days after certification and approval of billings and estimates.

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www.bvaeng.com E-Mail cad@bvaeng.com

DESIGNED BY: J. YURKUS DRAWN BY: TCK

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NO. 2 5/9/03	COORDINATION	REVISION
NO. 1 5/8/03	CITY COMMENTS	REVISION
February 7, 2003		DATE
ARNOLD ROY		ARCHITECT
GUSTAD		PROJECT MANAGER
TA 0114		PROJECT NUMBER
1/4"=1'-0"		SCALE
TCK		DRAWN BY
J. YURKUS		CHECKED BY

ELECTRICAL SPIRE PLAN LIGHTING

TALIESIN ARCHITECTS, LTD.