

POWER

NEW CONCEALED RACEWAY AND WIRE. NUMBER OF SLASHES INDICATES NUMBER OF CONDUCTORS IF MORE THAN TWO. SIZE OTHER THAN #12 AS NOTED. (APPLIES TO ALL WIRING SYMBOLS)

- - UNDERGROUND OR UNDERFLOOR RACEWAY

SIGNAL WIRING: F = FIRE ALARM, I = INTERCOM, C= LOW YOLTAGE CONTROL, T= TELEPHONE, D= DATA, TV = TELEVISION, P= CLOCK PROGRAM,

PC = PHOTO CONTROL CONDUIT UP CONDUIT DOWN PANELBOARD

SWITCH. "a"= CIRCUITS CONTROLLED, "K"= KEY SWITCH, "P"= W/PILOT LIGHT, "2"= DOUBLE POLE, "3"= "M"= AUTOMATIC WALL SWITCH, "D"= DIMMING SWITCH

"TS" = DIGITAL TIMER SWITCH

JUNCTION BOX / FLUSH GRADE PULL BOX

DUPLEX RECEPTACLE - "WP"=WEATHERPROOF, "GFI"=GROUND FAULT INTERRUPTER TYPE, "+n"= MOUNTING HEIGHT, "a"=CIRCUIT a, "ISO"= WITH ISOLATED GROUND, "SRG"= WITH SURGE SUPPRESSION, "TP"= TAMPER PROOF COVER, "L"= LOCKING

DOUBLE DUPLEX (QUAD) RECEPTACLE

SPECIAL RECEPTACLE. CONFIGURATION AS NOTED.

DISCONNECT SWITCH

MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION & LOCKABLE OFF COVER

LIGHTING

FIXTURE IDENTIFIER. FIXTURE TYPE "AI" SEE LIGHTING FIXTURE SCHEDULE. POLE MOUNTED LUMINAIRE.

OCCUPANCY SENSOR.

<u>ABBREVIATIONS</u>

ABOVE FINISHED FLOOR BLDG CONDUIT CANDELA CIRCUIT 0-10V DIMMING DIGITAL SIGNAL PROCESSOR EXISTING ELECTRICAL EMERGENCY FIRE ALARM MASTER GROUND FAULT INTERRUPTER

HEATING, VENTILATING, &

AIR CONDITIONING

BLD6

CKT

DIM

DSP

ELEC

EMERG

L.V. LOW VOLTAGE MECHANICAL SWITCHBOARD TVSS

TYPICAL

WIREGUARD

WEATHERPROOF

INTERMEDIATE DIST. FRAME MAIN DISTRIBUTION FRAME PROGRAM RAPID START

TELEPHONE TERMINAL BOARD TRANSIENT VOLTAGE SURGE SUPPRESSION

EQUIPMENT IDENTIFIER, EXHAUST FAN I SHOWN SHEET REFERENCE NOTE PLAN OR DETAIL NUMBER E-501 SHEET NUMBER

> EXISTING WORK SHOWN LIGHT - NEW WORK SHOWN BOLD

ROOM NUMBER

GENERAL

- - - - EXISTING TO BE REMOVED

GASKETED HAND HOLE W/ TAMPERPROOF SCREWS 4-ANCHOR BOLTS FULL BASE COVER - POLE BASE PLATE DOUBLE LEVELING -NUTS, GROUT IN PLACE AFTER LEVELING / I" x 45° CHAMFER WP RECEPT (WHERE SHOWN) FINISH GRADE -4-#4 VERTICAL REBAR -CONDUIT SIZED PER PLANS - 4-#4 TIES, EVENLY SPACED WITH TRIPLE TIE AT TOP

POLE BASE DETAIL NO SCALE

GENERAL NOTES:

- PROVIDE HANDLE-TIES FOR ALL BREAKERS THAT SERVE CIRCUITS WITH COMMON NEUTRALS PER
- BRANCH CIRCUIT WIRING, OTHER THAN FEEDERS, NOT SHOWN. SEE PANEL AND EQUIPMENT SCHEDULES FOR CIRCUIT ASSIGNMENTS.
- 3 COORDINATE REQUIREMENTS WITH SERVING UTILITIES. PROVIDE ALL REQUIRED SERVICE EQUIPMENT FOR MODIFICATIONS TO ELECTRICAL SERVICE.

MATERIAL NOTES:

<u>RACEWAYS</u>

A. ELECTRICAL METALLIC TUBING (EMT): USE CONCEALED ABOVE GRADE OR EXPOSED INDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE. FITTINGS: COMPRESSION TYPE OR INDENTER TYPE WATER OR CONCRETE TIGHT WHERE APPROPRIATE.

- B. SCHEDULE 40 PVC: USE under slab OR UNDERGROUND WITH RIGID STEEL ELBOWS AND RISERS.
- C. FLEXIBLE METAL CONDUIT (FMC) OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC): USE FOR CONNECTION TO ADJUSTABLE OR VIBRATING EQUIPMENT. PROVIDE SUITABLE GROUNDING MEANS. CONNECTORS: MALLEABLE IRON, CLAMP TYPE.
- D. CONNECTORS SHALL HAVE INSULATED THROATS.

<u> WIRE AND CABLE</u>

- E. COPPER, #12 MINIMUM, COPPER, UNLESS OTHERWISE NOTED OR APPROVED.
- F. INSULATION: 600 VOLT RATED, MINIMUM. #10 AND SMALLER, TYPE THHN STRANDED. #8 AND LARGER, TYPE THW STRANDED.
- G. CONDUCTORS SHALL BE COLOR CODED TO IDENTIFY PHASE CONNECTIONS.

H. SIZE FOR NUMBER OF ENTERING CONDUITS AND DEVICES INSTALLED. SHERARDIZED OR GALVANIZED STEEL. BOX COVER AND RING AS REQUIRED TO SUIT WALL MATERIAL AND DEVICES.

I. INDOORS: SHEET METAL. OUTDOORS: CAST STEEL WITH CORROSION RESISTANT FINISH.

<u>RECEPTACLES</u> DUPLEX RECEPTACLES: FULL GANG SIZE, POLARIZED, DUPLEX, PARALLEL BLADE, U-GROUNDING SLOT, SPECIFICATION GRADE, RATED AT 20 AMPERES, 125 VOLTS (UNLESS OTHERWISE NOTED), DESIGNED FOR SPLIT FEED SERVICE.

K. GROUND FAULT RECEPTACLES: SPECIFICATION GRADE DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER. TEST AND RESET BUTTONS. MATCHING WALL PLATE.

<u>EQUIPMENT</u>

PROVIDE BRANCH CIRCUIT PROTECTION AND DISCONNECT SWITCHES REQUIRED BY CODES AND MANUFACTURERS DIRECTIONS. DISCONNECTS FOR 120 VOLT EQUIPMENT: MANUAL MOTOR STARTERS WITH INTEGRAL OVERLOAD PROTECTION. ALL OTHERS: HEAVY DUTY, NON-FUSED SAFETY SWITCHES WITH SUITABLE ENCLOSURE.

M. CIRCUIT BREAKERS: THERMAL MAGNETIC, BOLT TO BUS TYPE WITH TRIP INDICATING HANDLE. MULTIPLE POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP MECHANISM.

- N. ADDITIONS TO EXISTING PANELS SHALL MATCH OR BE COMPATIBLE WITH EXISTING.
- O. PROVIDE HANDLE TIES FOR ALL BREAKERS ON CIRCUITS THAT HAVE COMMON NEUTRALS.

GROUNDING AND BONDING

P. PROVIDE GROUNDS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ADDITIONAL REQUIREMENTS AS REQUIRED HEREIN.

GROUNDING CONDUCTORS

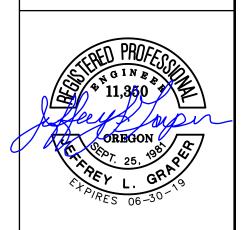
Q. SIZE: GROUNDING ELECTRODE CONDUCTOR: TABLE 250-66. EQUIPMENT GROUNDING CONDUCTOR: TABLE 250-122. POOL BONDING: 680.6.

R. MATERIAL: COPPER

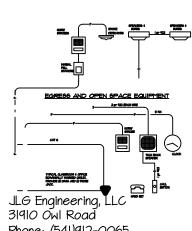
5. PROTECTION: CONDUCTORS NOT IN RACEWAY OR CONCEALED SHALL BE INSULATED. PROVIDE CONDUIT WHERE SHOWN OR REQUIRED FOR PHYSICAL PROTECTION.

SYMBOLS AND SCHEDULES





CONSULTANT:

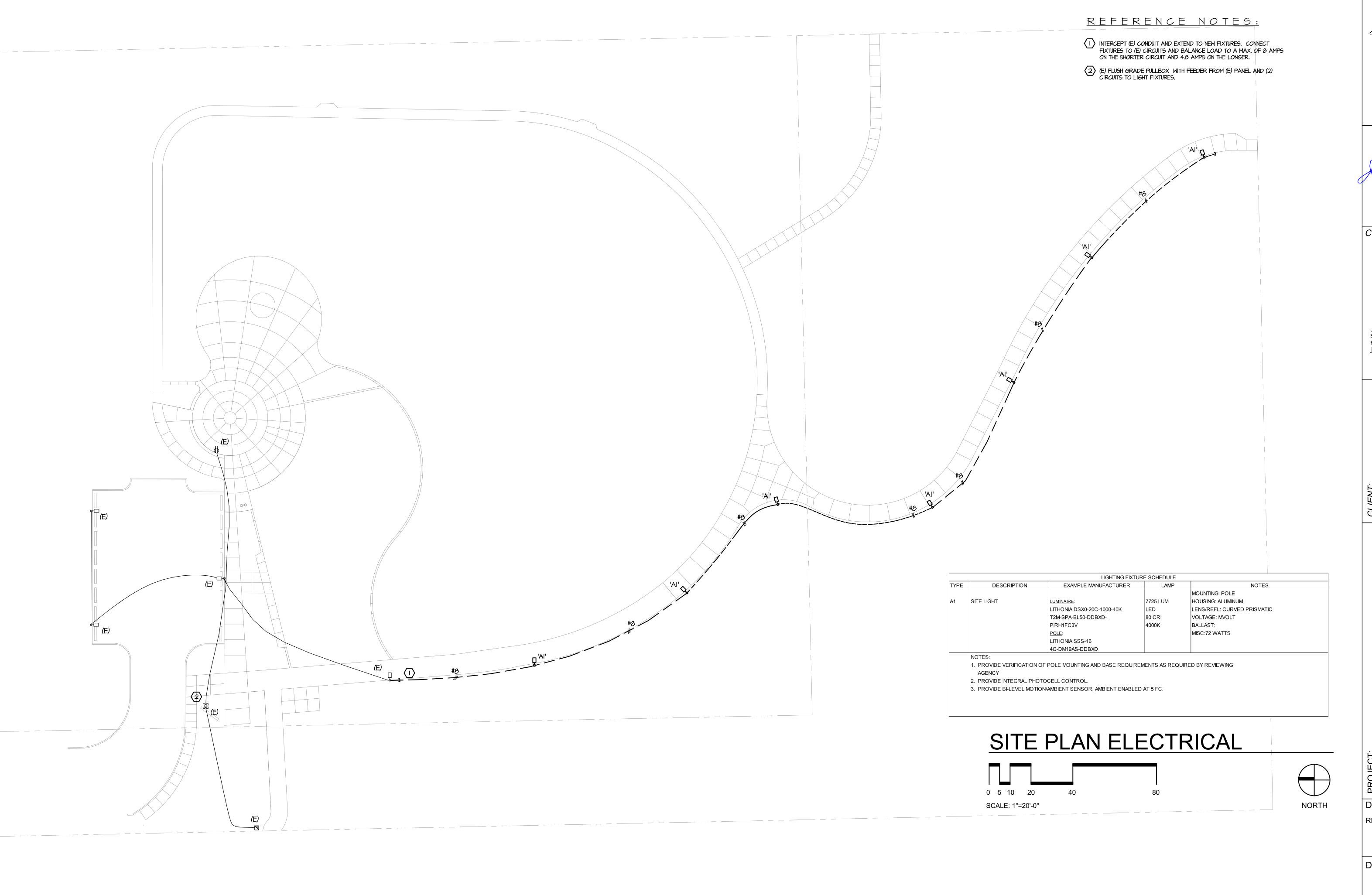


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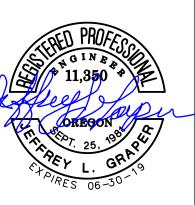
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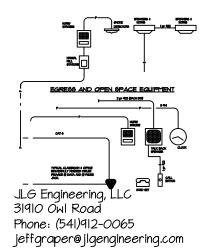
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