ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO DETAIL AND SPECIFICATIONS FOR MOUNTING HEIGHTS.

LIGHTING

NOTE:
(EM) DENOTES FIXTURE WITH BATTERY BALLAST

- FLUORESCENT FIXTURE – CEILING MOUNTED
- FLUORESCENT FIXTURE – CEILING MOUNTED, EMERGENCY POWER (OR BATTERY BALLAST)
- FLUORESCENT FIXTURE – CEILING MOUNTED, LIFE SAFETY BRANCH
- FLUORESCENT FIXTURE – CEILING MOUNTED, CRITICAL BRANCH
- FLUORESCENT STRIP FIXTURE
- FLUORESCENT STRIP FIXTURE – EMERGENCY POWER (OR BATTERY BALLAST) (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- FLUORESCENT FIXTURE – WALL MOUNTED
- FLUORESCENT FIXTURE – WALL MOUNTED, EMERGENCY POWER (OR BATTERY BALLAST)
- FLUORESCENT FIXTURE – WALL MOUNTED, LIFE SAFETY BRANCH
- FLUORESCENT FIXTURE – WALL MOUNTED, CRITICAL BRANCH
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – RECESSED
- HID, FLUORESCENT OR INCANDESCENT WALL WASH FIXTURE – RECESSED
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – RECESSED, EMERGENCY POWER (OR BATTERY BALLAST) – (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – SURFACE MOUNTED
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – SURFACE, EMERGENCY POWER (OR BATTERY BALLAST) – (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – WALL MOUNTED
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – WALL MOUNTED, EMERGENCY POWER (OR BATTERY BALLAST) – (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- HID, FLUORESCENT OR INCANDESCENT FIXTURE – PENDANT MOUNTED
- BEAUTY BAR
- TRACK LIGHTING
- FOUR BLADE PADDLE FAN
- FIVE BLADE PADDLE FAN
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY PACK, HEADS AS INDICATED
- REMOTE EMERGENCY LIGHT

SWITCHES

- $S_{a,b}$ LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- S_x SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  - * (2) DOUBLE POLE
  - (3) WAY
  - (4) WAY
  - (D) DIMMER SWITCH (1500W UNLESS NOTED)
  - (E) EMERGENCY SWITCH
  - (K) KEY OPERATED
  - (P) PILOT LIGHT INDICATION
  - (T) SINGLE PHASE MOTOR STARTING SWITCH
  - (EP) EXPLOSION PROOF
  - (OS) OCCUPANCY SENSOR
  - (WP) WEATHER PROOF
- DIGITAL SWITCH
- OCCUPANCY SENSOR

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN – CONDUCTORS ARE #12 AWG CU UNLESS OTHERWISE INDICATED. (SEE GENERAL NOTES FOR DERATING OF CONDUCTORS BASED ON CIRCUIT LENGTH AND CONDUCTORS IN A CONDUIT)
- CONDUIT EXPOSED ON WALLS OR CEILINGS
- EXISTING CONDUIT
- CONDUIT TURNED UP OR DOWN IN WALL
- —UE— UTILITY COMPANY CONDUIT
- —P— POWER CONDUIT
- BUSWAY – FEEDER TYPE (UNLESS NOTED)

RECEPTACLES

- DUPLEX RECEPTACLE
  - * (G) DUPLEX GFCI RECEPTACLE
  - (IG) DUPLEX ISOLATED GROUND RECEPTACLE.
  - (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER.
  - (WPG) DUPLEX GFCI RECEPTACLE, WEATHERPROOF COVER
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- QUADRAPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRAPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- DUPLEX RECEPTACLE TOP HALF SWITCHED
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING HALF SWITCHED
- SIMPLEX RECEPTACLE
- SIMPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
  - * (2D) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  - (VAV) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  - (VVT) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
- DEVICE ON EMERGENCY CIRCUIT (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- COMBINATION DATA/TELEPHONE AND DUPLEX RECEPTACLE, MOUNTED IN CAST IRON OR STAINLESS STEEL FLOOR BOX. REFER TO POWER/SYSTEMS FLOOR PLAN FOR EXACT TYPE FLOOR BOX
- 5–20R SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER
- CLOCK OUTLET, MOUNT 8'–0" OR 1'–0" BELOW CEILING WHEN CEILING IS LESS THAN 9'–0".
- SURFACE RACEWAY. PROVIDE WIREMOLD 3000 SERIES UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE 24" ON CENTER WITH MULTIPLE CIRCUITS, SO AS NO CONSECUTIVE RECEPTACLES ARE ON THE SAME BRANCH CIRCUIT.

POWER CONNECTIONS

- JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED
  - * (2D) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  - (VAV) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  - (VVT) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
- FLOOR JUNCTION BOX
- POWER POLE, SEE DETAIL FOR REQUIREMENTS.
- WALL MOUNTED PUSH BUTTON STATION MOUNT AT 7'–0" AFG FOR OUTDOOR INSTALLATIONS AND 4'–0" AFF FOR INDOOR INSTALLATIONS.
- WALL MOUNTED SHUNT TRIP STATION MOUNT AT 7'–0" AFG FOR OUTDOOR INSTALLATIONS AND 4'–0" AFF FOR INDOOR INSTALLATIONS.
- DOOR BELL
- DOOR BELL CHIME
- TIME CLOCK
- EPO WALL MOUNTED EMERGENCY POWER OFF STATION MOUNT AT 7'–0" AFG FOR OUTDOOR INSTALLATIONS AND 4'–0" AFF FOR INDOOR INSTALLATIONS.
- PHOTO–ELECTRIC CELL
- EWH ELECTRIC WATER HEATER
- IWH INSTANTANEOUS WATER HEATER
- EF M MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/3 NF 3R NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE, #POLES
- 30/3 25 3R FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE, #POLES
  - FUSE SIZE
- MAGNETIC STARTER.
  - * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- 30/3 25 3R COMBINATION MAGNETIC STARTER WITH FUSIBLE HEAVY DUTY SAFETY SWITCH.
  - * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE, #POLES
  - FUSE SIZE
  - NEMA STARTER SIZE
- COMBINATION MAGNETIC STARTER WITH A CIRCUIT BREAKER.
  - * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- ENCLOSED CIRCUIT BREAKER.
- ATS AUTOMATIC TRANSFER SWITCH – SEE RISER DIAGRAM
- PANELBOARD, LOW VOLTAGE (120/208V) – SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) – SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM
- M POWER COMPANY METERING.
- CT CURRENT TRANSFORMER CABINET
- T DRY–TYPE TRANSFORMER, SEE RISER. FOR CHARACTERISTICS.

SITE

- T POWER COMPANY TRANSFORMER – UNLESS NOTED
- PARKING LOT OR ROADWAY HID FIXTURE – NORMAL POWER
- PARKING LOT OR ROADWAY HID FIXTURE – EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALKWAY BOLLARD
- FLOODLIGHT
- POLE
- G GENERATOR – SEE RISER DIAGRAM

REFERENCE STANDARDS AND REGULATORY REQUIREMENTS:

CONFORM TO ALL THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CODE, STANDARDS, GUIDELINES, ETC. IF THERE SHOULD BE CONFLICTING REQUIREMENTS BETWEEN THESE CODES, STANDARDS, GUIDELINES, ETC., THE MORE OR MOST STRINGENT REQUIREMENT SHALL APPLY THAT DOES NOT VIOLATE ANY CODES OR LAWS.

a. FLORIDA BUILDING CODE (FBC), 2004 EDITION WITH 2007 REVISIONS

b. NATIONAL ELECTRIC CODE (NEC), 2005 EDITION [NFPA 70]

c. NATIONAL FIRE ALARM CODE, 2002 EDITION [NFPA 72]

d. LIFE SAFETY CODE, 2003 EDITION [NFPA 101]

e. STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2002 EDITION [NFPA 110]

f. STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, 1997 EDITION [NFPA 780]

ABBREVIATIONS:

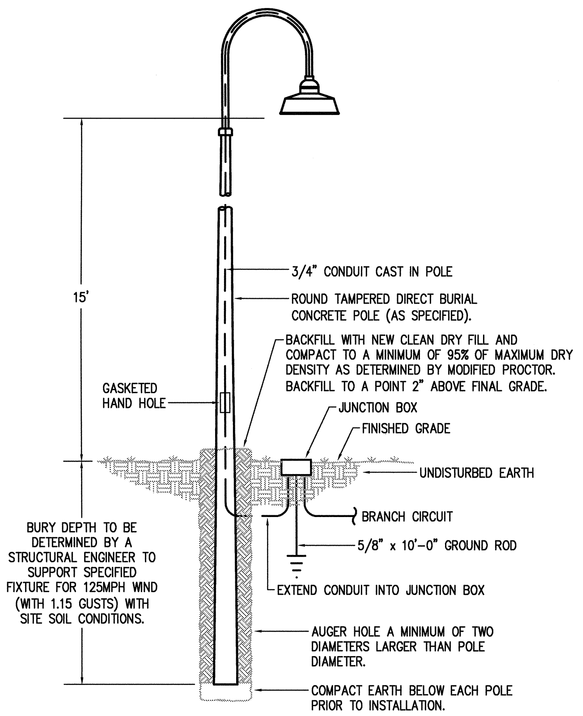
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
△	DELTA
DWG	DRAWING
FT	FEET
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
IG	ISOLATED GROUND
KVA	KILOVOLT – AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON–FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
#	PHASE
POS	POINT OF SALE
PVC	POLYVINYL CHLORIDE
P/T	POTENCIAL TRANSFORMER
R	RECESSED
SCR	SHORT CIRCUIT RATING
SURF	SURFACE
TEL	TELEPHONE
UG	UNDERGROUND
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND FAULT INTERRUPT
XFMER	TRANSFORMER
Y	WYE

PHASING GENERAL NOTES:

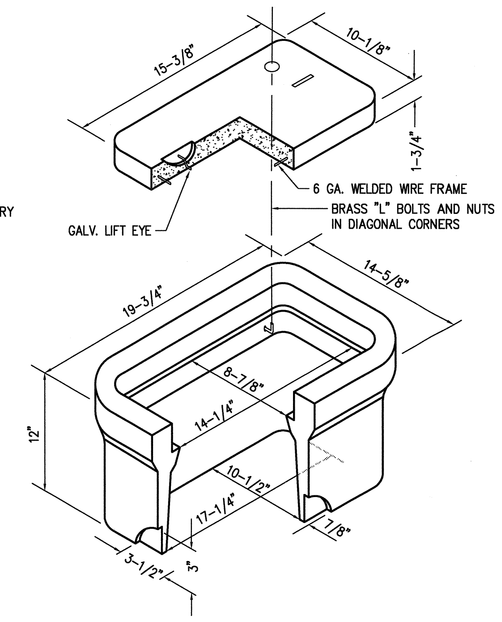
1. ALL WORK SHALL BE CONSTRUCTED TO MEET THE PHASING REQUIREMENTS OF THE PROJECT AS OUTLINED ON THE DRAWINGS AND PER THE SPECIFICATIONS.
2. PRIOR TO BID, CHECK LEAD TIMES OF ALL EQUIPMENT IN THE PROJECT. IF NECESSARY TO MEET THE PROJECT SCHEDULE, BID SHALL INCLUDE THE COST OF QUICK SHIP PREMIUMS. ALLOW TIME FOR NORMAL SHOP DRAWING PREPARATION AND REVIEW.

GENERAL ELECTRICAL NOTES:

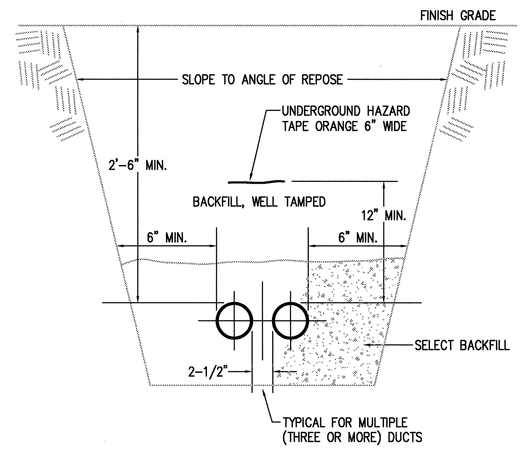
1. GENERAL ELECTRICAL NOTES LISTED BELOW APPLY TO ALL ELECTRICAL SHEETS, INCLUDING ALL DETAILS, SECTIONS, AND/OR DRAWINGS ISSUED AS ADDENDA TO THESE DRAWINGS.
2. THESE DOCUMENTS, INCLUDING THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, ARE THE PROPERTY OF INNOVATIVE ENGINEERING, INC. AND ARE NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF INNOVATIVE ENGINEERING, INC.
3. ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED ON THE DRAWINGS AND PER THE SPECIFICATIONS.
4. ALL MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. (UL) OR NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
5. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.
6. THE DRAWINGS ARE DIAGRAMMATIC AND THE OMISSION OF AN ITEM NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THAT ITEM.
7. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE PLANS, SPECIFICATIONS, AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
8. IN THE EVENT OF CONTRADICTIONS, ON THESE PLANS FROM SHEET TO SHEET (ELECTRICAL, MECHANICAL, ARCHITECTURAL, CIVIL AND/OR STRUCTURAL), THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF THE MOST RESTRICTIVE (COSTLY) ACTION SPECIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S AND ENGINEER'S ATTENTION PRIOR TO THE PRE–CONSTRUCTION MEETING FOR CLARIFICATION OF THE WORK TO BE PERFORMED. ANY COSTS GENERATED AS A RESULT OF FAILURE TO IDENTIFY THESE DISCREPANCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. PRIOR TO BID, COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL WORK. COORDINATE ALL MECHANICAL LOADS, VOLTAGES AND LOCATIONS WITH THE MECHANICAL CONTRACTOR AND MAKE NECESSARY ADJUSTMENTS WITHOUT EXTRA CHARGES.
10. SHOULD ANY QUESTIONS AND/OR DISCREPANCIES ARISE REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR PROPER INTERPRETATION AND/OR CLARIFICATION PRIOR TO THE COMMENCEMENT OF ANY WORK. IN THE ABSENCE OF SUCH REQUEST AND/OR AUTHORIZATION FROM THE ARCHITECT /ENGINEER, THE CONTRACTOR WILL BE PROCEEDING AT HIS OWN RISK.
11. THE ELECTRICAL CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED AND APPROVED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR ON REQUIREMENTS FOR STRUCTURAL SUPPORT AND FRAMING FOR ALL ELECTRICAL EQUIPMENT AND SYSTEMS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND VERIFYING STRUCTURAL SUPPORT AND FRAMING.
13. WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THE CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATION OF DUCTS, CONDUIT, AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER BEFORE INSTALLATION OF THE WORK.
14. FOR SPACES WITH INACCESSIBLE HARD CEILINGS, PROVIDE 30" x 30" HINGED ACCESS PANELS AS REQUIRED FOR ELECTRICAL EQUIPMENT ACCESS OR CLEARANCE.
15. EXPOSED INTERIOR CONDUIT IS NOT PERMITTED.
16. THE ELECTRICAL CONTRACTOR IS TO PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT AND RACEWAYS WITH LABELING TAGS AT EACH END.
17. ALL BARE METAL SURFACES SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST, INCLUDING BUT NOT LIMITED TO ANGLE FRAMING, EQUIPMENT SUPPORTS, MOUNTING HARDWARE, ETC.
18. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON–COMBUSTIBLE AND UL LABELED AND LISTED FOR THE APPLICATION. ALL WIRING SHALL BE PLENUM RATED OR ENCLOSED IN A METAL RACEWAY.
19. ALL RACEWAYS SHALL HAVE A GREEN GROUNDING CONDUCTOR.
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH CIRCUIT.
21. THE ELECTRICAL CONTRACTOR SHALL FIRESTOP ALL NEW AND EXISTING ELECTRICAL PENETRATIONS IN FIRE RATED PARTITIONS (WALLS, FLOORS, OR CEILINGS) WITH AN APPROVED FIRESTOP SYSTEM RATED FOR THE APPLICATION. FIRESTOP SYSTEM SHALL BE UL LISTED AND INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
22. COORDINATE LIGHTING, SWITCHING, AND RECEPTACLE LOCATIONS IN MECHANICAL SPACES WITH RESPECT TO ACTUAL MECHANICAL EQUIPMENT INSTALLATION FOR OPTIMUM LIGHTING AND UTILIZATION OF RECEPTACLES.
23. THE ELECTRICAL CONTRACTOR MAY INSTALL MULTIPLE CIRCUITS INDICATED ON PANEL SCHEDULE IN A SINGLE CONDUIT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CONDUIT FILL AND CONDUCTOR DERATING.
24. SURGE PROTECTION SHALL BE PROVIDED ON ALL CABLES ENTERING/ EXITING BUILDINGS THAT CONNECT TO ELECTRICAL EQUIPMENT.
25. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF BREAKER SIZE, WHICHEVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL RUNS IN EXCESS OF 100 FT. FOR DETERMINATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE BY ONE (1) WIRE SIZE FOR RUNS 100 FT. TO 200 FT. AND TWO (2) WIRE SIZES FOR RUNS OVER 200 FT.



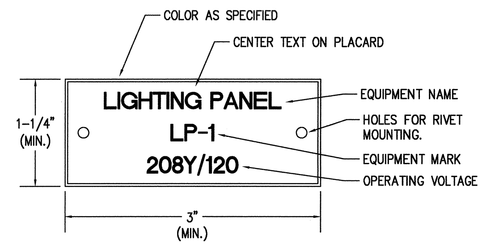
1 E–1 DIRECT BURIAL CONCRETE POLE DETAIL N.T.S.



2 E–1 CONCRETE PULLBOX DETAIL N.T.S.



3 E–1 TYPICAL DUCT DETAIL N.T.S.



GENERAL NOTES:
1. PLACARD SHALL HAVE WHITE ENGRAVED LETTERING WITH BLACK FOREGROUND.
2. PLACARD SHALL BE APPLIED USING EPOXY ADHESIVE OR APPROVED SELF ADHESIVE MATERIALS.
3. EDGES SHALL BE BEVELED WITH 1/64" TO 1/32" CHAMFER.
4. MINIMUM LETTERING SIZE TO BE 3/16".
5. PLACARD WIDTH MAY BE INCREASED BY 1/4" INCREMENTS TO ACCOMMODATE SPECIFIED INFORMATION.

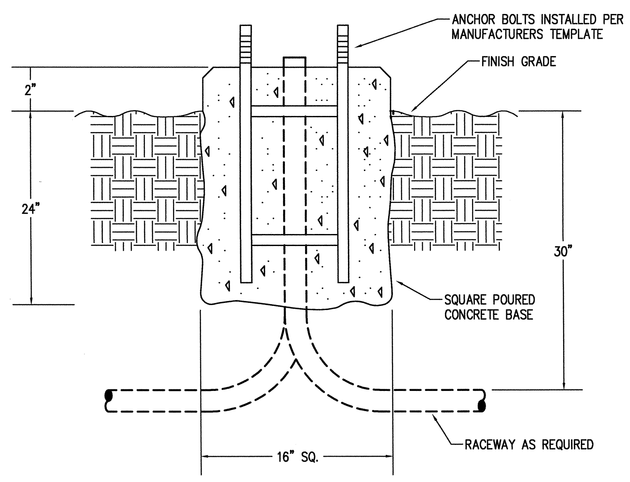
4 E–1 PLACARD DETAIL N.T.S.

LIGHTING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	TOTAL WATTS	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	MOUNTING	REMARKS
SL1	ARCHITECTURAL AREA/SITE LIGHTING FIXTURE WITH DECORATIVE CONCRETE POLE	USA ARCHITECTURAL LIGHTING	DSTP–HR–III–175–MH–MT(208V)–XPK–DBM–HS –DF (ROUND POLE TITAN: UTB20–D–200–D–HS–T238)	175	1	175	MH	POLE	(1)
SL2	42" CAST ALUMINUM TOP CAP AND CONCRETE HOUSING BOLLARD	USA ARCHITECTURAL LIGHTING	BDAC8–IL–100–MH–MT(208V)–GROUND–DBM–DF	100	1	100	MH	GROUND	

GENERAL FIXTURE NOTE:
A. THE ELECTRICAL CONTRACTOR SHALL VERIFY LIGHT FIXTURE MOUNTING REQUIREMENTS AND PROVIDE THE PROPER MOUNTING FRAME/HARDWARE FOR THE CEILING TYPE TO BE MOUNTED IN (OR THE POLE TO BE MOUNTED ON).
B. THE ARCHITECT AND/OR OWNER SHALL REVIEW AND APPROVED ALL LIGHT FIXTURES, INCLUDING COLORS AND FINISHES, PRIOR TO ORDER.
C. ALTERNATIVE MANUFACTURERS MUST SUBMIT A FULL PRE–APPROVAL PACKAGE FIFTEEN DAYS PRIOR TO BID DATE TO THE ARCHITECT. PACKAGE SHALL INCLUDE A COMPLETE BILL OF MATERIAL, CUT SHEETS, AND POINT BY POINT CALCULATIONS (IF SHOWN ON DRAWINGS). OMISSION OF ANY OF THESE COMPONENTS SHALL DISQUALIFY BIDDER.
D. THE POINT BY POINT CALCULATIONS ARE BASED ON THE FIXTURES AS SHOWN IN PLAN VIEW. OTHER MANUFACTURERS LISTED IN THE FIXTURE SCHEDULE SHALL BE REQUIRED TO PROVIDE POINT BY POINT CALCULATIONS WITH SUBMITTALS. LAMPS IN CALCULATIONS SHALL BE BASED ON MEAN LUMENS.

REMARKS:
1. MOUNTING HEIGHT OF FIXTURE SHALL BE 15'–0".



5 E–1 BOLLARD BASE DETAIL N.T.S.

Bryan C. Frohlich
PE #: 58250

Innovative Engineering, Inc.
P.O. Box 941428 Maitland, FL 32794
(407) 949–0294 Phone/Fax
info@innovativeengineeringinc.com
Certificate of Authorization No.: 26804

MARK	DATE	REVISION

R. Miller ARCHITECTURE, INC.
1511 Orange Avenue
Winter Park, Florida 32789
P: 407 539 2412
F: 407 539 2041
RMillerArchitecture.com

REDDING GARDENS LIGHT IMPROVEMENTS
SANFORD, FLORIDA

© R. Miller Architecture Inc. 2008

PROJECT # : 20801A
DATE : 9-22-08
DRAWN BY: BCF
CHECKED BY : BCF
TITLE : SYMBOL LEGEND, GENERAL NOTES, FIXTURE SCHEDULE, AND DETAILS
SCALE : AS NOTED
SHEET # : E–1

FILENAME: W–SITE PLANS – 08017.DWG
LAST FILED: 08/25/08 – 11:05
PLOT SCALE: 1 = 360