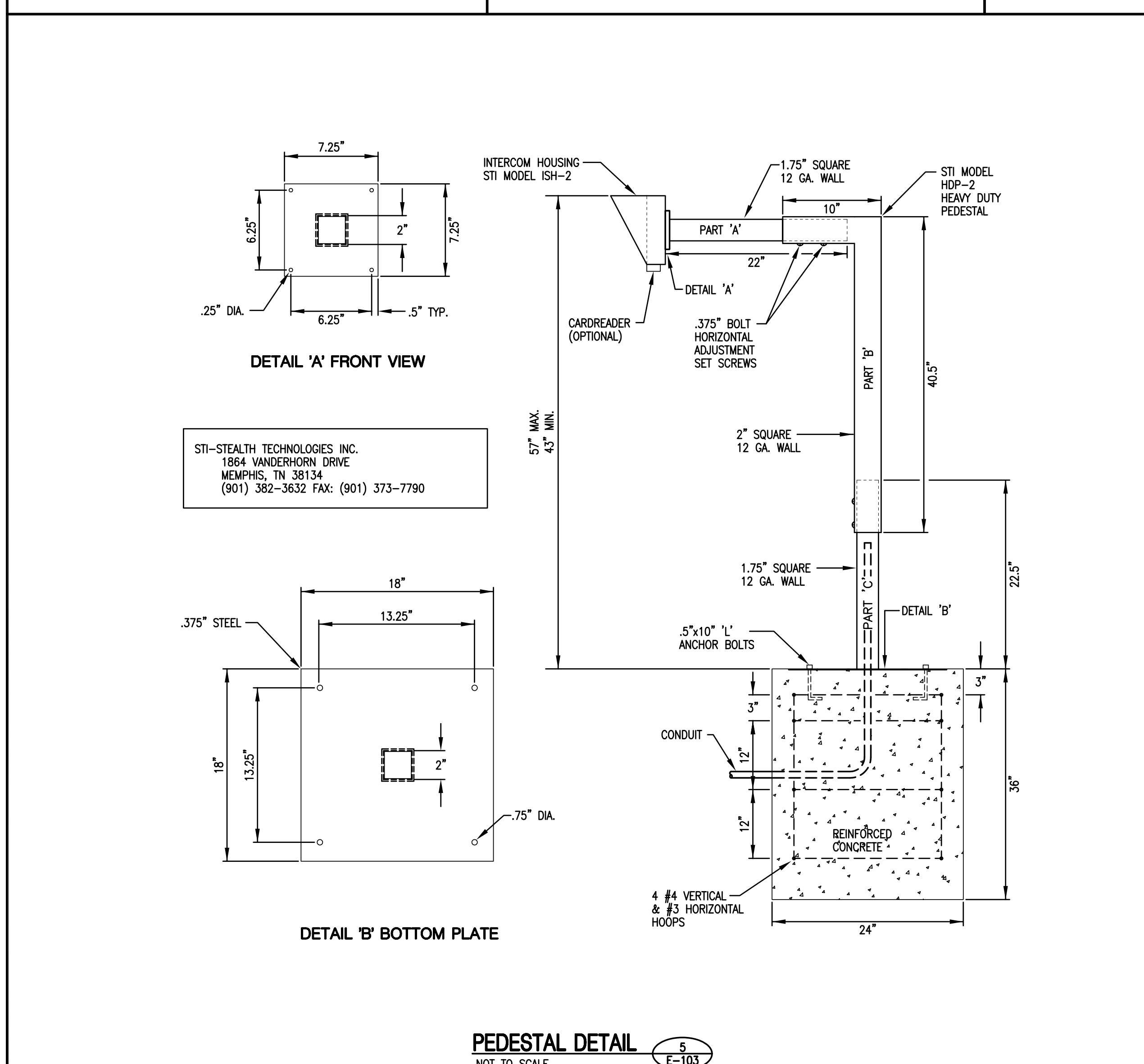
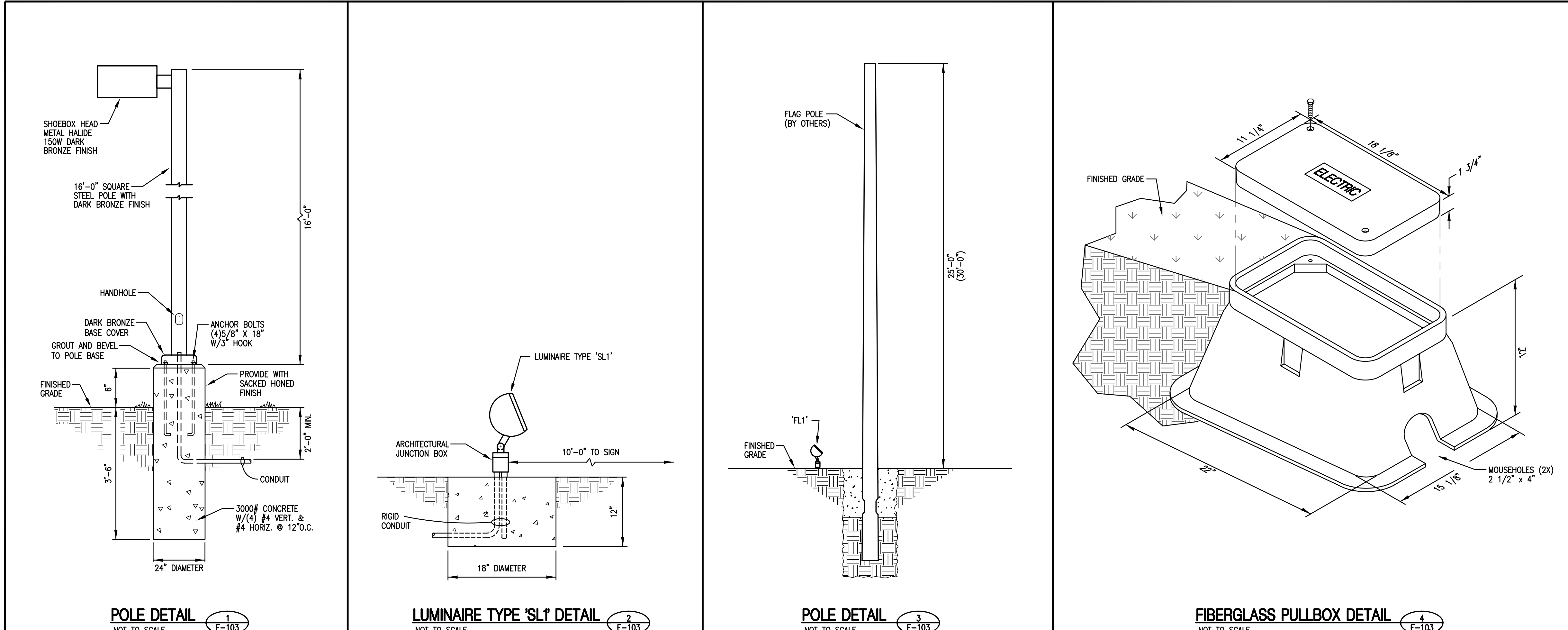


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



RECORD DRAWINGS -- JULY 28, 2009  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. ZGA ARCHITECTS AND PLANNERS, CHARTERED, AND THEIR CONSULTANTS, HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

LUMINAIRE SCHEDULE										
TYPE	DESCRIPTION	MOUNTING	LAMPS	WATTS / LUMINAIRE	VOLTAGE	EMERGENCY	MANUFACTURER	CATALOG NUMBER	ALTERNATE MANUFACTURERS	NOTES
FL1	FLAG POLE LIGHT, DIE CAST HOUSING, NEMA 3X3 BEAM ANGLE, SILVER FINISH, WET LOCATION LISTED	SEE DETAIL 3/E-103	1-300W MH	62	277	N/A	LITHONIA	TFM-50M-RG-277-L/LP-DNA		1
P4	POLE LIGHT, DIECAST ALUMINUM HOUSING, SEGMENTED OPTICS, BRONZE FINISH, FORWARD THROW DISTRIBUTION, HORIZONTAL LAMP, STRAIGHT SQUARE STEEL POLE, 16" FINISH TO MATCH LUMINAIRE	SEE DETAIL 1/E-103	1-150W MH	185	277	N/A	LITHONIA	KAD-150M-R4-TB-SP004-SCWA-DOB SSS-16-4C-DM19-DOB		1,2,3
P4S	POLE LIGHT, DIECAST ALUMINUM HOUSING, BRONZE FINISH, SHARP CUTOFF FORWARD THROW DISTRIBUTION, HORIZONTAL LAMP, STRAIGHT SQUARE STEEL POLE, 16" FINISH TO MATCH LUMINAIRE	SEE DETAIL 1/E-103	1-150W MH	185	277	N/A	LITHONIA	KAD-150M-R4-TB-SP004-SCWA-DOB-HS SSS-16-4C-DM19-DOB		1,2,3
P5	POLE LIGHT, DIECAST ALUMINUM HOUSING, BRONZE FINISH, TYPE 5 DISTRIBUTION, HORIZONTAL LAMP, STRAIGHT SQUARE STEEL POLE, 16" FINISH TO MATCH LUMINAIRE	SEE DETAIL 1/E-103	1-150W MH	185	277	N/A	LITHONIA	KAD-150M-R5S-TB-SP004-SCWA-DOB SSS-16-4C-DM19-DOB		1,2,3
SL1	SIGN LIGHT, DIE CAST HOUSING, UPPER VISOR, BRONZE FINISH	SEE DETAIL 2/E-103	1-70W MH	95	277	N/A	LITHONIA	TFM-70M-RB-TB-LV-DMB-L/LP		1

**LUMINAIRE SCHEDULE NOTES:**  
1. OR APPROVED EQUAL  
2. INCLUDE HANDHOLE WITH REMOVABLE WEATHERPROOF COVER INSTALLED 12 INCHES ABOVE BOTTOM OF POLE  
3. TO INCLUDE FOUR ANCHOR BOLTS PER POLE. MINIMUM SIZE RECOMMENDED BY MANUFACTURER, COMPLETE WITH RIGHT ANGLE BEND ON ONE END, PROVIDE FLAT WASHERS, LOCK WASHERS, AND HEXAGONAL NUTS FOR EACH POLE, PROVIDE TEMPLATE FOR POSITIONING OF ANCHOR BOLTS

- ELECTRICAL GENERAL NOTES**
- FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND/OR SPECIFIED IN ALL SECTIONS OF DIVISION 26 AND ALL OTHER WORK AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE INSTALLATION, INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE, AND READY FOR OPERATION.
  - ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST RULES, CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
    - OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (OSHA).
    - NFPA #70 - NATIONAL ELECTRIC CODE (NEC).
    - ADA STANDARDS - AMERICANS WITH DISABILITIES ACT.
    - ANSI/IEEE C-2 - NATIONAL ELECTRICAL SAFETY CODE
    - NECA - STANDARD OF INSTALLATION
    - INTERNATIONAL BUILDING CODE
    - INTERNATIONAL FIRE CODE
    - CABO-ANSI A117.1.
    - ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
    - NFPA #72 - NATIONAL FIRE ALARM CODE
    - INTERNATIONAL ENERGY CONSERVATION CODE.
  - WORK TO BE EXECUTED AND INSPECTED IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. PERMITS, FEES OR CHARGES FOR INSPECTION OR OTHER SERVICES SHALL BE PAID FOR BY THIS CONTRACTOR. LOCAL CODES AND ORDINANCES ARE TO BE CONSIDERED AS MINIMUM REQUIREMENTS AND MUST BE PROPERLY EXECUTED WITHOUT EXPENSE TO THE OWNER; BUT DO NOT RELIEVE THE CONTRACTOR FROM WORK SHOWN THAT EXCEEDS MINIMUM REQUIREMENTS.
  - SUBMIT WRITTEN GUARANTEE, OPERATION AND MAINTENANCE MANUALS, AND RECORD DRAWINGS UNDER PROVISIONS OF DIVISION 1.
  - ALL WORK UNDER THIS SECTION SHALL BE GUARANTEED IN WRITING TO BE FREE OF DEFECTIVE WORK, MATERIALS, OR PARTS FOR A PERIOD OF ONE (1) YEAR, EXCEPT LAMPS WHICH SHALL BE GUARANTEED FOR THIRTY (30) DAYS AFTER FINAL ACCEPTANCE OF THE WORK UNDER THE CONTRACT.
  - REPAIR, REVISION OR REPLACEMENT OF ANY AND ALL DEFECTS, FAILURE OR INOPERATIVENESS SHALL BE DONE BY THIS SECTION AT NO COST TO THE OWNER.
  - TEMPORARY WIRING FOR CONSTRUCTION LIGHT AND POWER FOR THE GENERAL CONTRACTOR OR OTHER SUBCONTRACTORS SHALL NOT BE INCLUDED AS A PART OF THIS SECTION OF THE WORK. REFER TO DIVISION 1 REGARDING PAYMENT FOR THE ELECTRICAL ENERGY USED FOR CONSTRUCTION LIGHT AND POWER AND TESTING OF THE NEW INSTALLATION.
  - COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED UNDER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. INFORM CONTRACTORS OF OTHER TRADES OF THE REQUIRED ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT TO MAINTAIN SERVICEABILITY AND CODE COMPLIANCE.
  - VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION. CHECK ACTUAL JOB CONDITIONS BEFORE FABRICATING WORK. REPORT NECESSARY CHANGES IN TIME TO PREVENT NEEDLESS WORK. CHANGES OR ADDITIONS SUBJECT TO ADDITIONAL COMPENSATION, WHICH ARE MADE WITHOUT WRITTEN AUTHORIZATION AND AN AGREED PRICE, SHALL BE AT CONTRACTOR'S RISK AND EXPENSE.
  - EXCAVATION: THE CONTRACTOR SHALL DO ALL NECESSARY EXCAVATION OF WHATEVER SUBSTANCES ENCOUNTERED FOR PROPER LAYING OF ALL RACEWAYS OR CABLES EXCEPT AS NOTED ON THE DRAWINGS. EXCAVATED MATERIALS NOT REQUIRED FOR FILL SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE ENGINEER.
  - EXCAVATION SHALL BE CARRIED LOW ENOUGH TO ALLOW CODE MINIMUM COVERAGE OVER RACEWAYS. EXCESS EXCAVATION BELOW REQUIRED LEVEL SHALL BE BACKFILLED AT THE CONTRACTOR'S EXPENSE WITH EARTH, SAND OR GRAVEL AS DIRECTED BY THE ENGINEER, AND THOROUGHLY TAMPED. GROUND ADJACENT TO ALL EXCAVATIONS SHALL BE GRADED TO PREVENT WATER RUNNING IN.
  - THE CONTRACTOR SHALL REMOVE, BY PUMPING OR OTHER MEANS APPROVED BY THE ENGINEER, ANY WATER ACCUMULATED IN EXCAVATION.
  - BACKFILLING: THE CONTRACTOR SHALL DO ALL BACKFILLING OF TRENCHES, ALLOWING FOR SETTLEMENT. BACKFILL SHALL BE MECHANICALLY COMPACTED TO SAME DENSITY AS SURROUNDING UNDISTURBED EARTH.
  - NO BACKFILLING SHALL BE DONE UNTIL INSTALLATION HAS BEEN APPROVED BY THE ENGINEER.
- CONDUIT GENERAL NOTES**
- FOR UNDERGROUND CONDUIT, UTILIZE RIGID THREADED GALVANIZED STEEL WITH EXTERNAL PVC COATING, INTERMEDIATE METAL CONDUIT (STEEL) WITH EXTERNAL PVC COATING OR RIGID PVC CONDUIT. ALL MALE THREADS OF CONDUIT WITH EXTERNAL PVC COATING SHALL BE PROTECTED BY APPLICATION OF A TWO PART CLEAR URETHANE COATING WHICH IS ELECTRICALLY CONDUCTIVE. WHERE RIGID PVC CONDUIT IS USED UNDERGROUND, STUB UPS THROUGH CONCRETE FLOORS SHALL BE RIGID GALVANIZED CONDUIT ELBOWS WITH EXTERNAL PVC COATING.
  - MINIMUM SIZE: 1" OUN.
  - CUT CONDUIT SQUARE USING A SAW OR PIPECUTTER; DE-BURR CUT ENDS.
  - BRING CONDUIT TO THE SHOULDER OF FITTINGS AND COUPLINGS AND FASTEN SECURELY.
  - INSTALL NO MORE THAN THE EQUIVALENT OF FOUR 90-DEGREE BENDS BETWEEN BOXES.
  - INSTALL LOCKNUTS AND INSULATING BUSHINGS WHERE CONDUIT ENTERS BOXES, CABINETS, OR FITTINGS.
  - USE HYDRAULIC ONE-SHOT CONDUIT BENDER OR FACTORY ELBOWS FOR BENDS IN CONDUIT LARGER THAN TWO INCH SIZE.
  - AVOID MOISTURE TRAPS WHERE POSSIBLE; WHERE UNAVOIDABLE, PROVIDE JUNCTION BOX WITH DRAIN FITTING AT CONDUIT LOW POINT.
  - USE SUITABLE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE.
  - PROVIDE POLYOLEFIN NYLON PULL LINE IN EMPTY CONDUITS.
  - INSTALL CONDUIT UNDER CONCRETE FLOOR SLABS ON GRADE.

Revisions

Date

CONSULTANTS:

**EIDAM AND ASSOCIATES CONSULTING ENGINEERS**  
720 E PARK BOULEVARD, SUITE 250  
BOISE, IDAHO 83712-7157  
Phone (208)345-7157; FAX (208)345-7173  
email: cades@eidam-associ.com

**EIDAM & ASSOCIATES PROJECT NUMBER 08-034RD**

ARCHITECT:

**ZGA**  
Architects and Planners, Chartered

565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606  
565 W. MYRTLE STREET, SUITE 225  
BOISE, IDAHO 83702-7606  
(208) 345-8872  
CONTACT: LOWELL ALSETH, AIA

Drawing Title

**SITE ELECTRICAL DETAILS**

Project Title

**Veterans Benefits Administration  
Boise Regional Office Building**

Approved Project Director

Location

**Boise, Idaho**

Date

**January 22, 2009**

Checked

**GLJ/JMH**

Drawn

**KGL**

Project Number

**347 - VB3018**

Building Number

**RO**

Drawing Number

**E-103**

Dwg. 4 of --

Office of Facilities Management

Department of Veterans Affairs