

UTILITY Co. REQUIREMENTS

VERIFY AND COMPLY WITH ALL UTILITY COMPANY REQUIREMENTS BEFORE BIDDING JOB AND BEFORE CONSTRUCTION:
 POWER Co. PG & E (ROD KERNS) Ph. 395-7184
 PHONE Co. PACIFIC BELL Ph. 398-4934
 CAL. WATER 324-6011

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA ADMINISTRATIVE CODE, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE AND LOCAL ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

TITLE 24

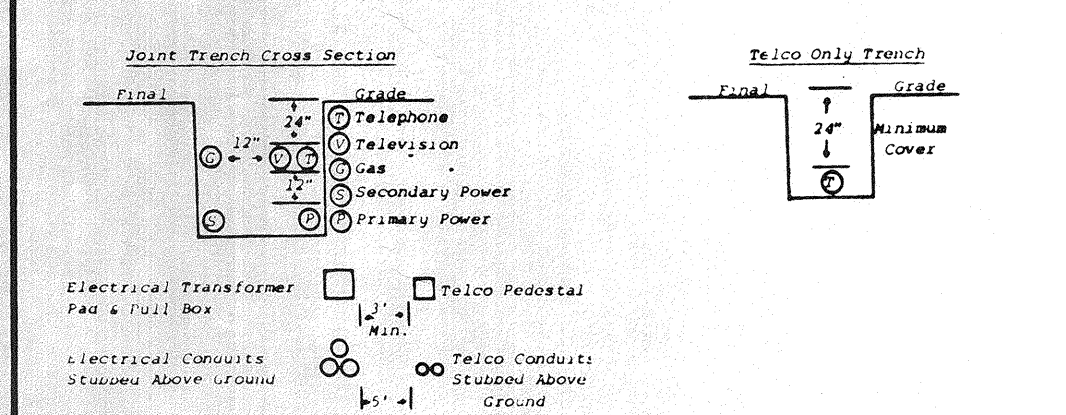
DIVISION 9 OF THE CALIFORNIA ENERGY CONSERVATION STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

GENERAL NOTES

- Utility company requirements are to conform to the serving utility company rules and regulations.
- Verify exact location and disposition of electric outlets, voltage and phase for equipment furnished by others with respective equipment contractors before starting work and connect same.
- See Mechanical Drawings for all control wiring diagrams. The Electrical Contractor shall be responsible for all electrical hook-up. The Mechanical Contractor shall be responsible for the correctness of all hook-up before starting equipment.
- Separate required switches and starters, except for package units, shall be furnished by the Electrical Contractor. All necessary control switches, control transformers, thermostats, relays, etc., shall be furnished by the Mechanical Contractor.
- All panels, transformers, motor controls, terminal cabinets, shall have lamcood name tags for identification. All panels shall have circuit conductors identified.
- All underground rigid steel conduit to be encased in 3" concrete envelope or double wrapped in 10 mil. PVC wrapping tape. Outside of building line, concrete shall be integrally colored red. Underground non-metallic conduit approved for direct burial--does not require encasement. All wires for underground to be rigid steel and encased or wrapped as described above.
- The Electrical Contractor is to secure all permits, and pay all fees, including power company charges, and include same in this bid.
- Furnish and install lockouts on motor feeds. All 3Ø motors to have 3Ø protection (3 overloads).
- All lighting runs between 80' to 150' to be #10 TW CU., between 150' to 225' to be #8 TW CU., for 120V system. All main feeders are sized for aluminum, or as noted.
- All underground stub outs shall be capped and located with "stub markers" set in concrete.
- All breakers to be high ambient compensated in all panels in mechanical rooms, on roof or outside. All flex conduit used outdoors or in damp locations, shall be "sealtite" with W.P. connections.
- All new panels and new terminal cabinets to have two 1" C.O. stubbed to accessible attic space.
- Roof jacks shall be installed for all conduits run through roof. Conduit shall be securely anchored below. Jacks to be water tight.
- All branch circuits feeding exterior receptacles shall have ground fault interrupting circuit breakers.
- Underground conduit shall be rigid steel or PVC Schedule 40. If rigid steel conduit is used, it shall be encased in 3" concrete envelope or have a zonal PVC covering. Outside of the building line, concrete shall be integrally colored red. Only non-metallic conduit approved for direct burial does not require encasement, unless otherwise noted on plans.
- Rigid steel walls shall be required at all stub-outs where wire size is #4 AWG THW or larger, or where conduit size is 1 1/2" or larger.

TELEPHONE NOTES

- Conduits, pull lines and terminal cabinets will be provided by the Developer.
- The use of conduit for other than Telephone Company owned wiring will preclude its use by the Telephone Company, and may require exposed telephone wires or cables. The Telephone Company may refuse to use conduit that deviates from plans and specifications.
- Conduit material must be Telephone plastic conduit or better. Schedule 40 plastic duct may be used in lieu of Telephone specified plastic ducts. If conduit is damaged or the cable cannot be pulled, it is the contractor's responsibility to correct the condition.
- If there are more than two 90° bends or excessive lengths, contact the Telephone Company Engineer for possible pull and/or splice box requirements.
- The radius of 90° bends at building, pole and/or pedestal terminations, shall be a minimum of ten times the diameter of the conduit size. 90° sweeps shall maintain a minimum radius of 24" INCHES.
- Pull line requirements are 3/16" polypropylene or equivalent. Where specified, the pull line must be provided and placed by the contractor.
- Plumber's fittings (water and gas pipe) are not acceptable for Telephone Company use.
- Sealfill material shall be free from large stones, pavement, and other material that might damage the conduit.
- All conduit must be inspected by and acceptable to the Telephone Company Inspector before backfilling. Call 327-6185 for inspection.
- The building owner, his agents or assignees, shall have the responsibility to penetrate fire walls, masonry and metal walls or floors, and to firestop (seal) all penetrations through floors and walls in compliance with applicable building and fire codes.
- If any deviations from the Telephone Company recommendations are necessary, call the Engineer on 327-6185.



THE ABOVE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CHRIS A. ADDINGTON & ASSOCIATES. ANY REVISIONS TO THESE DRAWINGS SHALL BE THE PROPERTY OF CHRIS A. ADDINGTON & ASSOCIATES. ANY REVISIONS TO THESE DRAWINGS SHALL BE THE PROPERTY OF CHRIS A. ADDINGTON & ASSOCIATES. ANY REVISIONS TO THESE DRAWINGS SHALL BE THE PROPERTY OF CHRIS A. ADDINGTON & ASSOCIATES.

ELECTRICAL SYMBOLS

| | |
|--|--|
| (3-a-100) CIRCUIT NUMBER | ☐ PHOTOCELL |
| (3-g-100) FIXTURE TYPE | ⊞ ELECTRICAL SWITCHBOARD AND/OR METER GROUP |
| (3-h-100) FIXTURE WATTAGE RATING | ▬ BRANCH PANELBOARD; SURFACE, FLUSH |
| ☐ FLUORESCENT FIXTURE, RECESSED | ▬ TERMINAL CABINET; SURFACE, FLUSH |
| ○ FLUORESCENT FIXTURE, SURFACE | ▬ TELEPHONE PLYWOOD BACKBOARD, SIZED AS NOTED |
| ◡ FLUORESCENT FIXTURE, OPEN STRIP | ⊙ HOMERUN TO CIRCUIT BREAKER NO. 3 IN PANEL "A" (SCHEDULE MINIMUM) |
| ○ INCAND. OR HLD. FIXTURE, SURFACE/PENDENT | ⊙ CONDUIT RUN EXPOSED |
| ◡ INCAND. OR HLD. FIXTURE, RECESSED | ⊙ CONDUIT RUN IN WALL/CEILING |
| ○ INCAND. OR HLD. FIXTURE, WALL MTD. | ⊙ CONDUIT RUN IN FLOOR/UNDERGROUND |
| ◡ POLE MTD. LIGHT FIXTURE | ⊙ SPOT OR FLOOD LIGHT |
| ◡ SPOT OR FLOOD LIGHT | ⊙ EXIT LIGHT; CEILING/WALL |
| ⊙ NIGHT LIGHT | ⊙ NIGHT LIGHT |
| ⊙ EMERGENCY LIGHTING UNIT | ⊙ EMERGENCY LIGHTING UNIT |
| ⊙ SINGLE POLE SWITCH, +48" U.O.N. | ⊙ DOUBLE POLE SWITCH, +48" U.O.N. |
| ⊙ DOUBLE POLE SWITCH, +48" U.O.N. | ⊙ THREE WAY SWITCH, +48" U.O.N. |
| ⊙ SWITCH W/PILOT LIGHT | ⊙ SWITCH, DIMMING |
| ⊙ KEY SWITCH | ⊙ MANUAL STARTING SWITCH W/OVERLOAD PROTECTION; H.P. RATED |
| ⊙ EACH SUBSCRIPT LETTER INDICATES ONE SWITCH | ⊙ DUPLEX RECEPTACLE, +12" U.O.N. |
| ⊙ DUPLEX RECEPTACLE, FLOOR MTD. | ⊙ 220 V. SINGLE PHASE RECEPTACLE |
| ⊙ DUPLEX RECEPTACLE; SPLIT WIRED, BOTTOM HALF SWITCHED | ⊙ DOUBLE DUPLEX RECEPTACLE |
| ⊙ ADJACENT TO SYMBOL INDICATES GROUND FAULT PROTECTED | ⊙ TELEPHONE OUTLET; +12" U.O.N. |
| ⊙ TELEPHONE OUTLET, FLOOR MTD. | ⊙ JUNCTION BOX, MOUNTING HEIGHT AS NOTED |
| ⊙ THERMOSTAT; +60" U.O.N. | ⊙ CLOCK OUTLET; +7'-0" U.O.N. |
| ⊙ TIME CLOCK | ⊙ BY-PASS TIMER |

FIXTURE SCHEDULE

FIXTURE SYMBOL (3-A-150): 3= CIRCUIT NUMBER, A= FIXTURE TYPE, 150= FIXT. WATTAGE

ALL FLUORESCENT LAMPS TO BE "WATT - MISERS" OR EQUAL (U.O.N.)

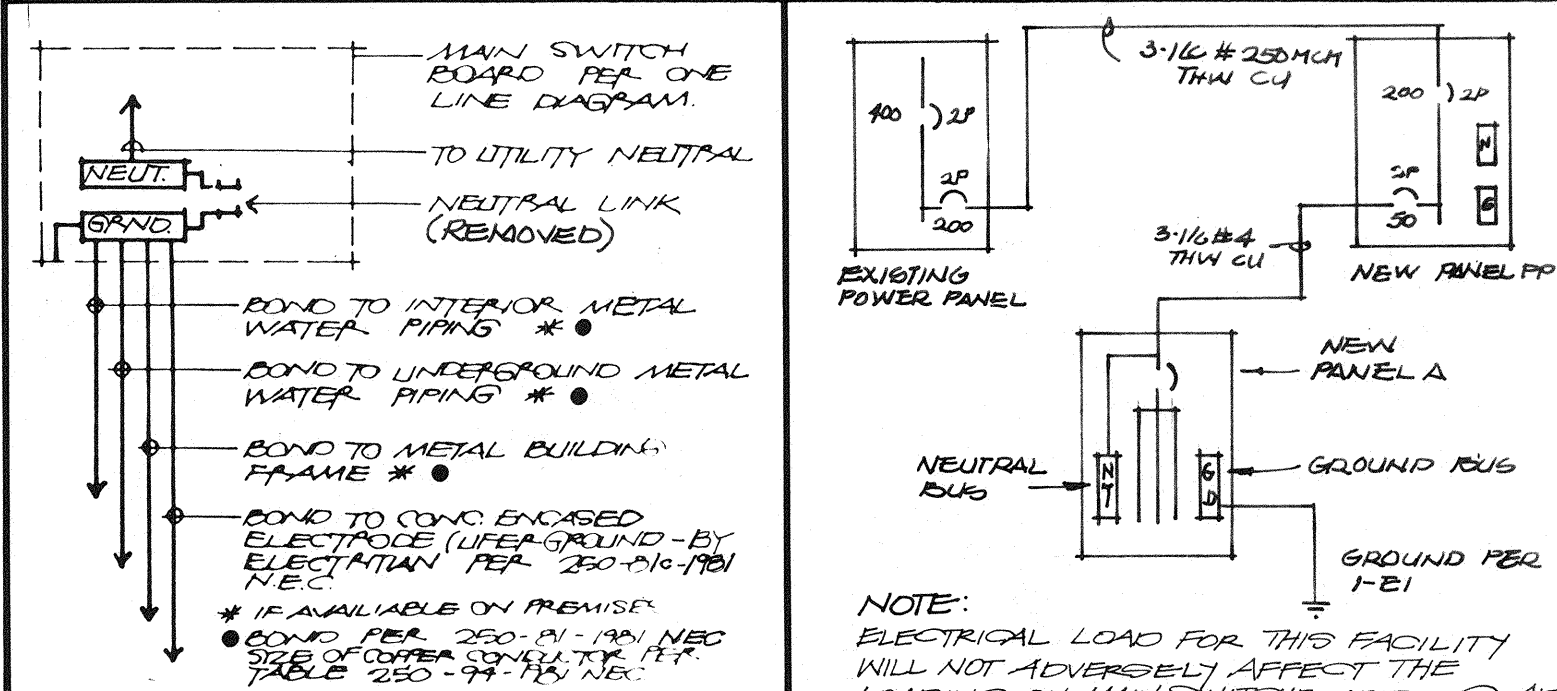
ALL FLUORESCENT BALLASTS TO BE MARK III ENERGY SAVERS (U.O.N.)

| TYPE | WATTS | LAMPS | VOLT. | MANUFACTURER | CATALOG NO. | MOUNT | NOTES |
|------|-------|-------|-------|--------------|-----------------------|--------|------------------|
| (A) | 144 | F35CW | 120 | KYRIBRIGHT | SS244-CEA000-EG8-LF10 | T-GRID | |
| (B) | 35 | HPS | 120 | KME-DUNBAR | 8411 | WALL | +96" M.H. B.O.P. |

FEEDER SCHEDULE

| |
|-----|
| (A) |
| (B) |
| (C) |
| (D) |
| (E) |
| (F) |
| (G) |
| (H) |
| (I) |
| (J) |
| (K) |

1 GROUNDING ELECTRODE 2 ONE LINE DIAGRAM



120/208 VOLTS 1 Ø 3 WIRE
 100 A. BUSSING 100 A. MAIN BKR
 24 CIRCUIT
 10,000 BREAKER A.I.C.
 3 1/2" MAX. ENCL. DEPTH
 FLUSH MOUNTING

PANEL A

| CIR | BKR | LOAD V.A. | DESCRIPTION | DESCRIPTION | LOAD V.A. | BKR | CIR |
|-----|-----|-----------|-------------|--------------|-----------|-----|-----|
| Ø A | Ø B | Ø C | | | Ø A | Ø B | Ø C |
| 1 | 20 | 1296 | GEN. LTG | EVAP COOLER | 1176 | 20 | 2 |
| 3 | 20 | 1338 | GEN. LTG | GEN. RECEPTS | 720 | 20 | 4 |
| 5 | 20 | 130 | F.A. U | GEN. RECEPTS | 720 | 20 | 6 |
| 7 | 20 | | SPARE | SPARE | | 20 | 8 |
| 9 | | | | | | | 10 |
| 11 | | | | | | | 12 |
| 13 | | | | | | | 14 |
| 15 | | | | | | | 16 |
| 17 | | | | | | | 18 |
| 19 | | | | | | | 20 |
| 21 | | | | | | | 22 |
| 23 | | | | | | | 24 |
| 25 | | | | | | | 26 |
| 27 | | | | | | | 28 |
| 29 | | | | | | | 30 |
| 31 | | | | | | | 32 |
| 33 | | | | | | | 34 |
| 35 | | | | | | | 36 |
| 37 | | | | | | | 38 |
| 39 | | | | | | | 40 |
| 41 | | | | | | | 42 |

1426 1308 720 1896

| | | |
|------|----------|-----------------|
| 3322 | Ø A | +120= 27.7 AMPS |
| 2038 | Ø B | +720= 17.2 AMPS |
| 5360 | TOTAL VA | |

GENERAL NOTES

All mechanical and electrical equipment shall be braced or anchored to resist a horizontal force acting in any direction using the following criteria:

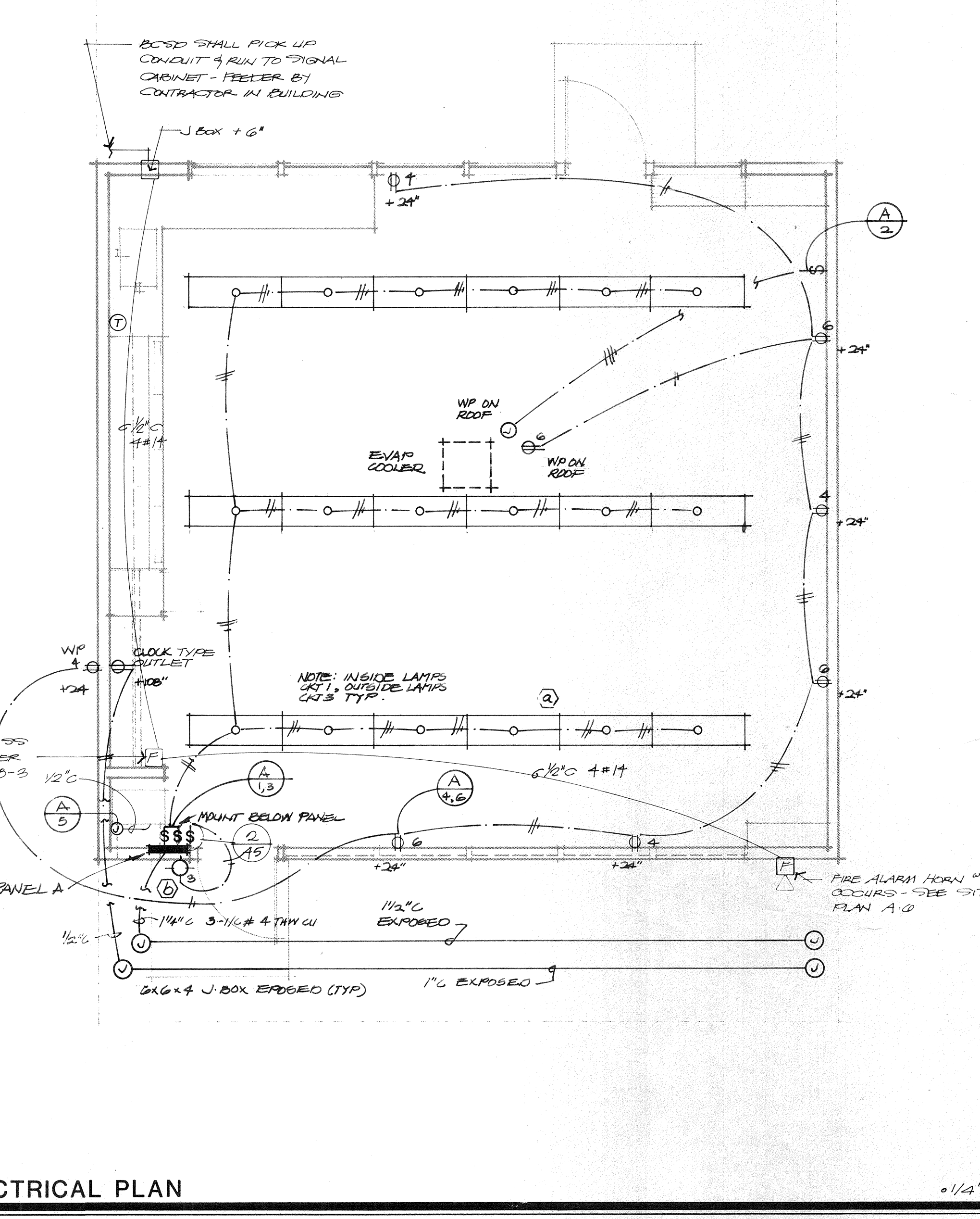
Fixed Equipment on Grade 22% of Operating Weight
 Fixed Equipment on Structure 33% of Operating Weight
 Emergency Power Equipment on Grade 33% of Operating Weight
 Emergency Power Equipment on Structure 50% of Operating Weight

For Flexibly Mounted Equipment Use 2 X the above values.
 Simultaneous Vertical Force - Use 1/3 X Horizontal Force.

Where anchorage details are not shown on the drawings the field installation shall be subject to the approval of the engineer and the field representative of the Office of the State Architect.

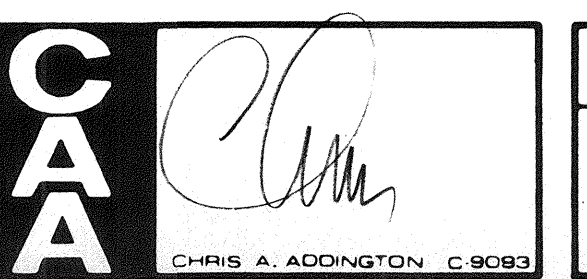
| DATE | PRINTS ISSUED FOR: | MARK | DATE | REVISIONS | DRAWN BY |
|---------|--------------------|------|------|-----------|----------|
| 5-10-85 | BOARD APPROVAL | 1 | | | SM/BS |
| 5-20-85 | SEALED | 2 | | | |
| 5-23-85 | BIDDING | 3 | | | |
| | | 4 | | | |
| | | 5 | | | |

DATE: 5-10-85
 JOB NO. 85-242-1
 CHECK'D: MMS



ELECTRICAL PLAN

OFFICE OF THE STATE ARCHITECT
 STRUCTURAL SAFETY SECTION
 A 46446 JUL 3 1985
 APPROVED: [Signature] PRINCIPAL STRUCTURAL ENGINEER



ELECTRICAL SITE PLAN / NOTES / SCHEDULES / DETAILS

NEW PORTABLE CLASSROOM
 FOR BAKERSFIELD CITY SCHOOL DISTRICT.
 BAKERSFIELD - KERN COUNTY - CALIFORNIA

CHRIS A. ADDINGTON & ASSOCIATES
 A.I.A. ARCHITECTS • 3434 TRUXTUN AVE. SUITE #240 • BAKERSFIELD • CALIF. 93301/805-327-1699