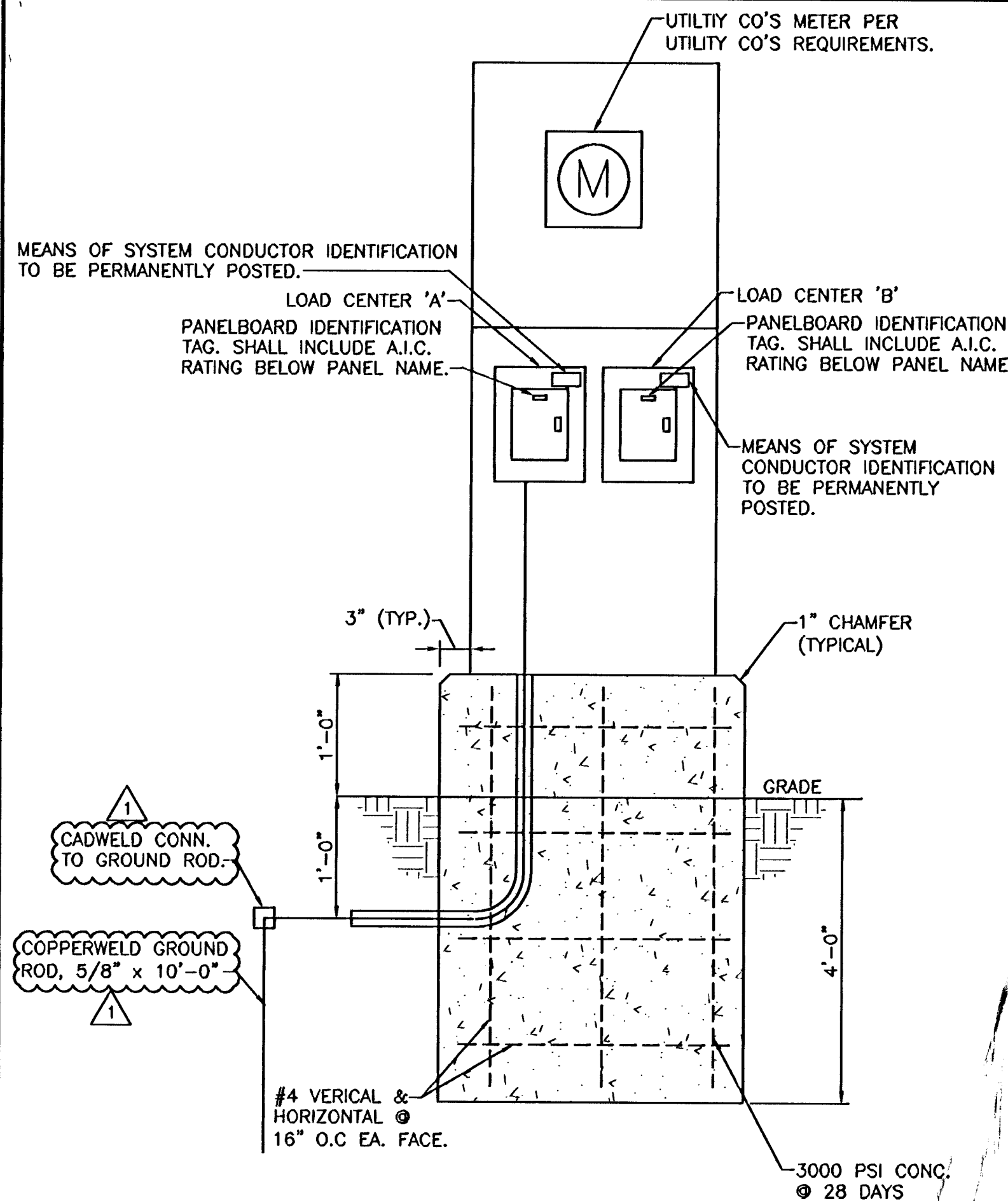
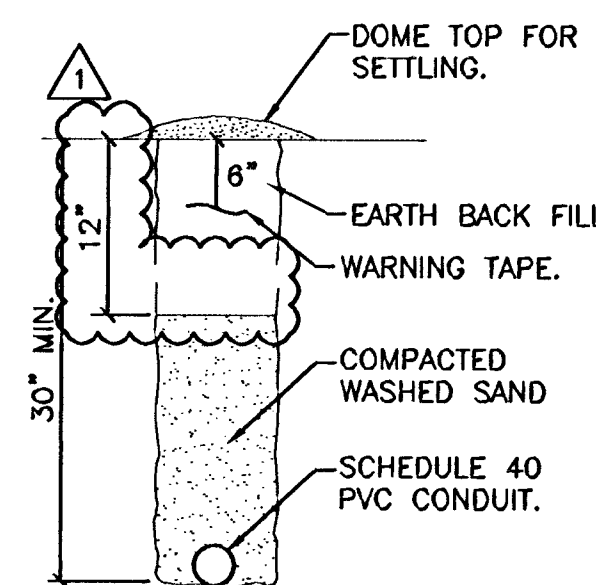




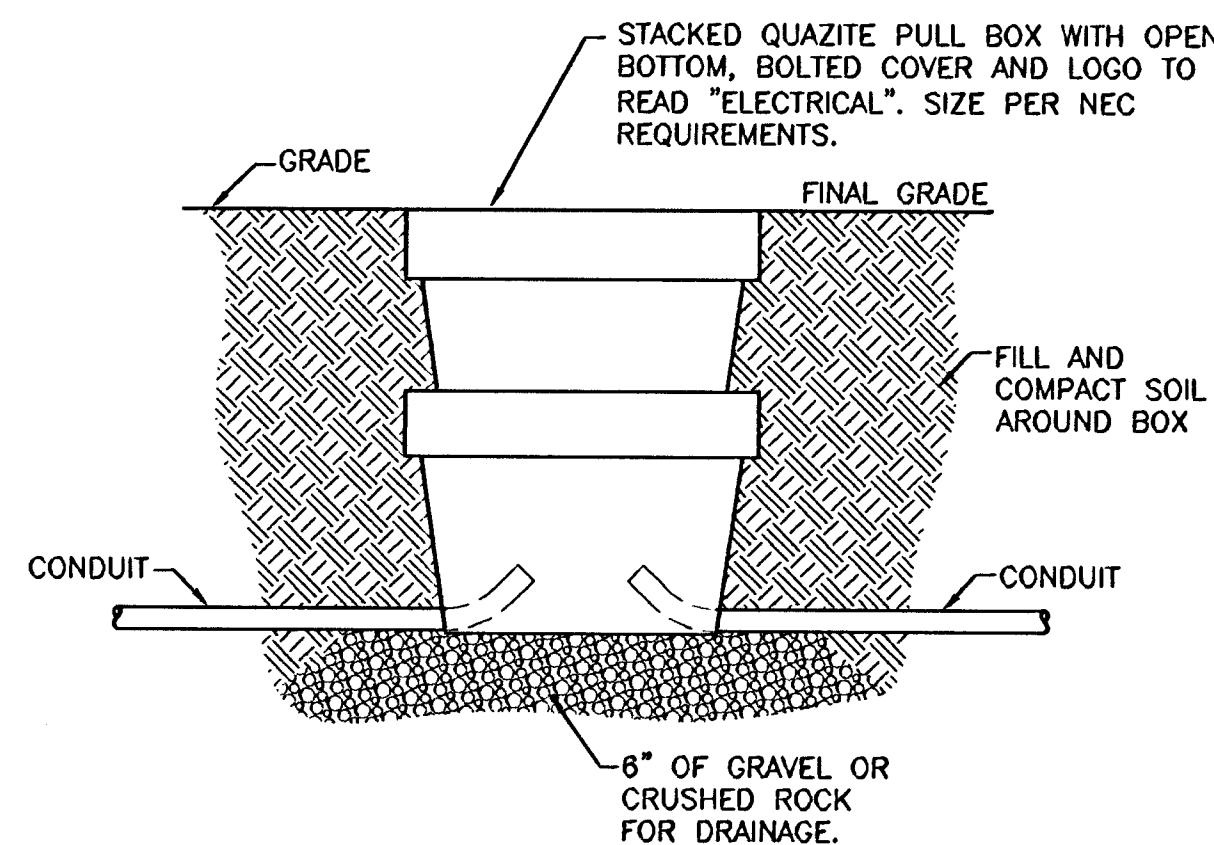
1 ELECTRICAL CABINET 'A'

NTS



2 CONDUIT TRENCH CROSS SECTION

NTS



3 IN GROUND PULL BOX INSTALLATION DETAIL

NTS

UTILITY CO'S PAD MOUNTED TRANSFORMER. TRANSFORMER PAD INSTALLED BY ELECTRICAL CONTRACTOR.

UTILITY COMPANY'S PEDESTAL

PRIMARY SERVICE LATERAL BY UTILITY COMPANY. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.

4 WIRING DIAGRAM FOR ELECTRICAL CABINET 'A'

NTS

LIGHT FIXTURE SCHEDULE

FIXT. LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS NO. TYPE	FIXT. VOLT.	FINISH	MOUNTING	WATT	REMARKS
SA	LUMEC	400MH-DMS50-SGX-277-LR-SCL-WFLG-LM-1A	1 400W MH ED28	480	TEXTURED BRONZE	20' POLE	500	LUMEC 20' POLE
		SSMBV-20-BRTX						

LIGHTING FIXTURE SCHEDULE NOTES

- VERIFY ALL LIGHTING FIXTURE LOCATIONS, FINISHES, AND VOLTAGE WITH ENGINEER PRIOR TO INSTALLING.
- DEVELOPER WILL PROVIDE LIGHT FIXTURES, POLES AND ANCHOR BOLTS. CONTRACTOR TO TRANSPORT FIXTURES TO SITE FROM WAREHOUSE AT 1719 N. ROCK ROAD.
- ALL HID FIXTURES SHALL BE "BURNED-IN" AS PER LAMP MANUFACTURER'S RECOMMENDATIONS TO INSURE PROPER LAMP LIFE.
- SUBMIT LIST OF LAMPS FOR ENGINEER'S APPROVAL WITH TYPE OF LAMP AND MANUFACTURER TO BE USED FOR EACH FIXTURE LISTED PRIOR TO ORDERING. LAMP TO BE MATCHED WITH FIXTURE.

SYSTEM CONDUCTOR IDENTIFICATION 277/480V, 3Ø, 4W

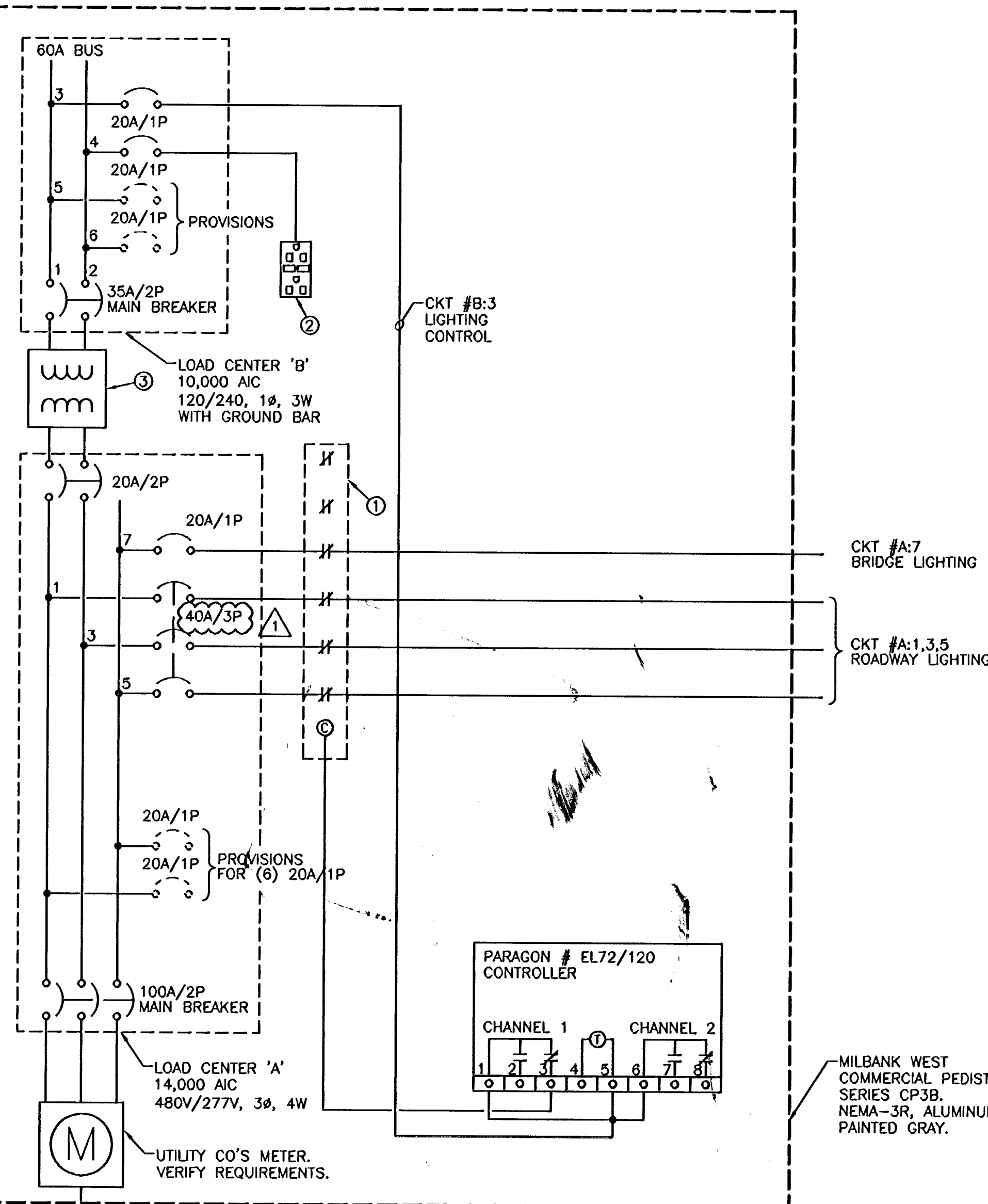
A-PHASE - YELLOW
B-PHASE - BROWN
C-PHASE - ORANGE
NEUTRAL - GRAY
GROUND - GREEN

SYSTEM CONDUCTOR IDENTIFICATION 120/240V, 1Ø, 3W

A-PHASE - BLACK
B-PHASE - RED
NEUTRAL - WHITE
GROUND - GREEN

CONDUCTOR I.D. NOTES:

- 3" x 3-1/2" NAMEPLATES TO BE INSTALLED PER N.E.C.-210-4D WITH 1/4" LETTERS ON WHITE BACKGROUND; FIELD RIVET TO PANEL COVER IN UPPER RIGHT HAND CORNER.
- ELECTRICAL CONTRACTOR SHALL PURCHASE AND INSTALL IDENTIFICATION TAGS ON ELECTRICAL PANELS AS SHOWN.



SEQUENCE OF OPERATIONS:
CHANNEL 1: ROADWAY LIGHTING: ENERGIZE AT DUSK DE-ENERGIZE AT DAWN.
CHANNEL 2: SPARE

KEYED NOTES:

- 6P/20A/N.C./480V LIGHTING CONTACTOR WITH 120V COIL.
- GFCI RECEPTACLE MOUNTED IN MILBANK CABINET.
- 6KVA TRANSFORMER. PRIMARY-480V, 1Ø, 3W. SECONDARY-120/240, 1Ø, 3W

NOTE: NEUTRALS & EQUIPMENT GROUNDS NOT SHOWN FOR CLARITY.

5 SYSTEM GROUNDING DETAIL

NONE

LITTLEFUSE FUSES: 20 AMPS
480, 240 & 208 VOLTS: LEY SERIES FUSE HOLDER WITH CC FUSES
277 & 120 VOLTS: LEC SERIES FUSE HOLDER & LET NEUTRAL DISCONNECT WITH CC FUSE

BOND SYSTEM GROUND TO GROUNDING LUG INSIDE POLE.

#6 GROUND CONDUCTORS
INSTALL 6'-0" FROM OUTSIDE EDGE OF CURB TO CENTER LINE OF BASE.

CUSTOM BASE MOLD. ART FORMS CLASSICA #610R.

ANCHOR BOLTS (4).

RGS CONDUIT

PVC CONDUIT FOR CIRCUIT CONTIN.

CAUTION: EXISTING 6" GAS LINE 4'-0" FROM BACK OF CURB ON THE INSIDE LOOP OF ROADWAY.

#3 HOOP TIES 10" OC

#8 RE-BARS

CONCRETE PIER, 24" DIAMETER

24" DIAMETER

NOTE: INSTALL ALL POLE BASES 6'-0" FROM BACK OF CURB.

NOTE: LEVELING NUTS SHALL BE USED. POLE BEARING PLATE SHALL NOT BE SHIMMED AGAINST PIER CONCRETE.

NOTE: EXISTING 6" GAS LINE 4'-0" FROM BACK OF CURB ON THE INSIDE LOOP OF ROADWAY.

NOTE: LEVELING NUTS SHALL BE USED. POLE BEARING PLATE SHALL NOT BE SHIMMED AGAINST PIER CONCRETE.

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NOTE: EXISTING 6" GAS LINE 4'-0" FROM BACK OF CURB ON THE INSIDE LOOP OF ROADWAY.

6 POLE BASE DETAIL

NTS

DETAIL APPLIES TO FIXTURES 'SA'

SITE ELECTRICAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY SERVICES. FAILURE TO DO SO WILL NOT RESULT IN ANY EXTRA FINANCIAL COMPENSATION FROM THE OWNER. CONTRACTOR SHALL HAVE ALL UTILITY SERVICE REQUIREMENTS IN THE BASE BID.
- ROUTING OF PRIMARY ELECTRIC SHOWN ON THIS PLAN HAS NOT BEEN COORDINATED WITH RESPECTIVE UTILITIES. CONTRACTOR SHALL COORDINATE EXACT ROUTING & TERMINATION REQUIREMENTS WITH EACH UTILITY.
- MIN. CONDUCTOR SIZE #10. MIN CONDUIT SIZE 1"

MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67208
316-684-9600

THE WATERFRONT ROADWAY LIGHTING
PROJECT NAME

DETAILS
SHEET TITLE

JAF
DESIGN BY:

AUGUST 2003
DATE

JAF
DRAWN BY:

02014
JOB NO.

DLP
CHECKED BY:

5/5
SHEET/OF

58-03-01-02