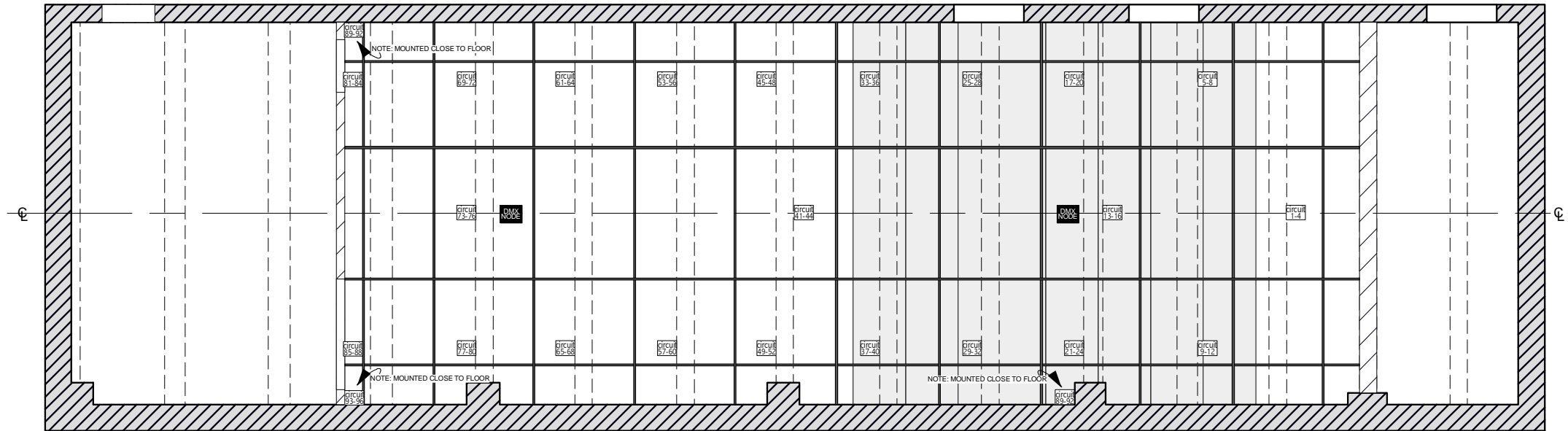


GROUNDPLAN



CEILING-MOUNTED DUAL DMX DATAPORTS

1.0 GENERAL

- 1.1 Provide dual DMX nodes to permit DMX 512 data to be encoded, routed and decoded over ethernet.
- 1.2 Each node shall incorporate two 5-pin XLR type connectors. Output nodes shall utilize female connectors and input nodes shall utilize male connectors.

2.0 DMX PORTS

- 2.1 DMX ports shall comply with the requirements of the USITT DMX 512 standard.
- 2.2 DMX inputs shall be fully opto-isolated from the node electronics and each other.
- 2.3 DMX outputs shall be earth-ground referenced.
- 2.4 DMX ports shall be capable of withstanding fault voltages of up to 250VAC without damage.

3.0 PROCESSOR

- 3.1 Maximum delay time from input to output shall not be greater than one packet time (approx. 30mSec.)
- 3.2 A minimum DMX update rate of 40Hz shall be sustained under all conditions.

4.0 MECHANICAL

- 4.1 The node faceplate shall be constructed of durable cast aluminum. It shall mount to a standard 2-gang masonry deep blackbox.
- 4.2 Nodes shall be provided in matte black finish.
- All control cable to be run separately from power cables.

5.0 POWER

- 5.1 Power for nodes shall be provided over Cat 5 cable, complying with IEEE 802.3af. Systems requiring additional wiring for power shall not be acceptable.
- 5.2 The node electronics shall be electrically isolated from the power supplied over the Cat 5 cable.
- 5.3 Power may be provided from IEEE 802.3af compliant power-over-ethernet hubs, or by using conventional hubs together as with isolated in-line power supplies as provided by the manufacturer.

6.0 NETWORK

- 6.1 Communications physical layer shall comply with the IEEE 802.3 10BASE-T Ethernet specification.
- 6.2 All network cabling shall be Cat 5, , conforming to TIA-568A/B, and shall be installed and certified by a qualified network installer.
- 6.3 Hubs shall comply with power over-Ethernet IEEE 802.3af, unless a separate in-line power supply is provided.

CIRCUITS 1-88 ARE CEILING-MOUNTED 4-CIRCUIT PIGTAIL BOXES

1.0 MECHANICAL

- 1.1 Pigtail boxes shall be fabricated from 18 gauge cold rolled steel with 16 gauge covers.
- 1.2 They shall be finished with fine textured, scratch resistant, black powder coat.
- 1.3 Circuit numbers shall be 3" or 3/4" polycarbonate labels reverse screened with white letters on black background (sized to match product)
- 1.4 Pigtails shall be spaced on 3" centers.
- 1.5 Pigtails shall be three-wire type "SOW" rubber jacketed cable sized for the circuit ampacity.

2.0 POWER

- 2.1 Pigtail boxes shall be wired and tested with 20A grounded stage pin connectors.
- 2.2 Internal wiring shall be sized to circuit ampacity and shall be rated at 125°C.
- 2.3 All circuits to be wired separately with own hot, neutral and ground.
- 2.4 All circuits to be run with 10 gauge wire.

3.0 GENERAL

- 3.1 20A cable mount stage pin connectors shall be 12 gauge 4 way indent crimp (with inspection window) type where the wire is inserted and crimped directly to the socket
- 3.2 Terminations shall be at one end using feed through terminals individually labeled with corresponding circuit numbers.
- 3.3 20A circuits shall use screwless tension clamp terminals listed for 20-8 gauge wire. (terminals that place a screw directly on the wire are not acceptable)
- 3.4 over distribution equipment shall be Underwriter Laboratories (UL) Listed.

PRELIMINARY DRAWING

LOFT THEATER The Barrow Group		PLATE #
96 Ckt Layout - 1/2" = 1'-0"		1
Architects:	R Moon Associates	OF 5
Lighting Consultant:	Scott Bolman	
Revised:	3.15.04	
THIS DRAWING REPRESENTS VISUAL CONCEPTS AND CONSTRUCTION SUGGESTIONS ONLY. THE LIGHTING DESIGNER IS UNQUALIFIED TO DETERMINE THE ELECTRICAL OR STRUCTURAL APPROPRIATENESS OF THE DESIGN & WILL NOT ASSUME RESPONSIBILITY NOR BE HELD LIABLE FOR IMPROPER ENGINEERING, CONSTRUCTION OR USE. ALL MATERIALS AND CONSTRUCTION MUST MEET THE MOST STRINGENT LOCAL SAFETY FIRE CODES.		