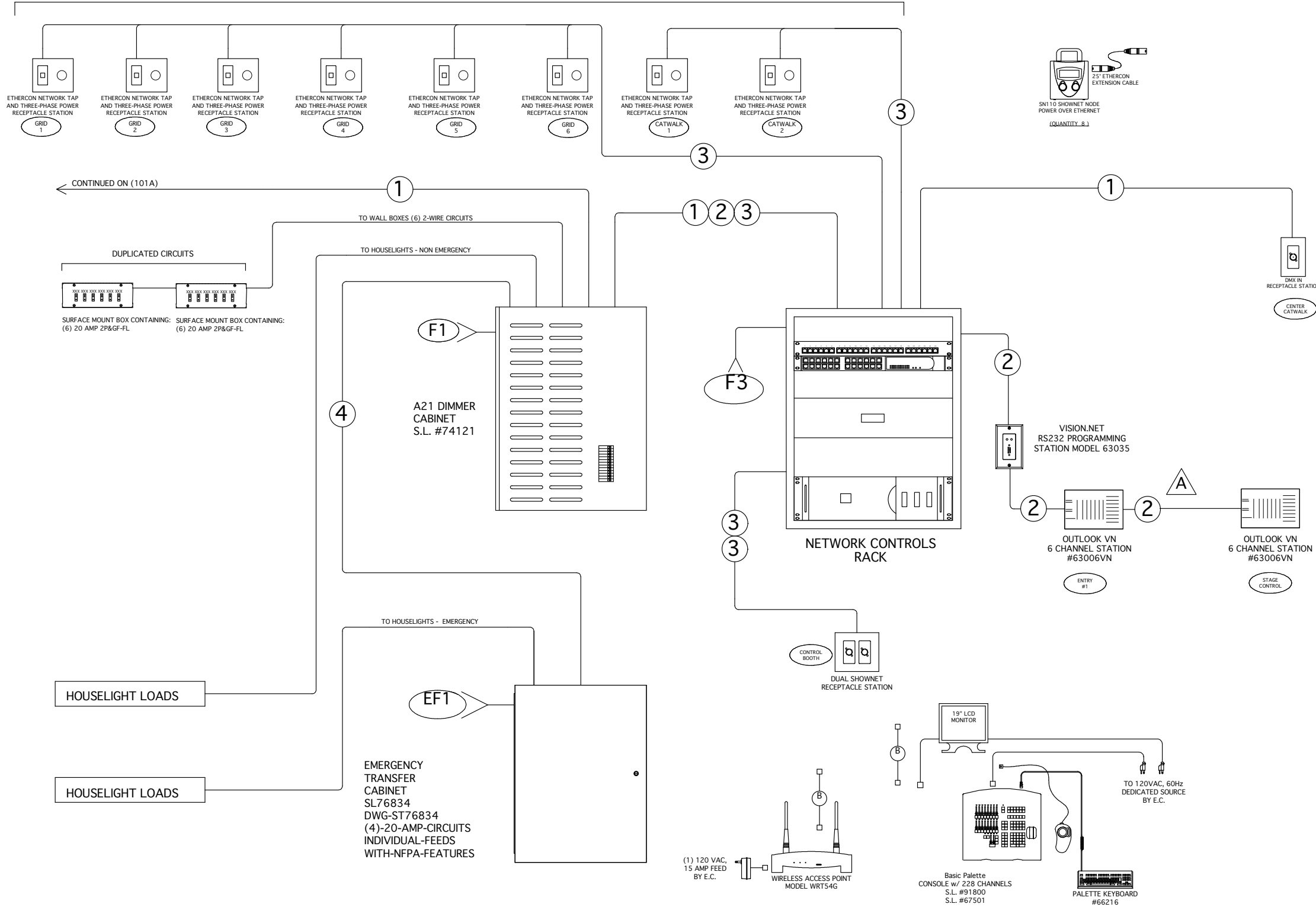


NETWORK SEGMENTS MUST ALL HOMERUN TO NETWORK CONTROLS RACK



**PROVISIONS:**  
 NO PART OF THIS ELECTRONIC SYSTEM SHALL BE ENERGIZED BEFORE BEING CHECKED AND INSTALLATION APPROVED BY A VINCENT LIGHTING ENGINEER. VINCENT LIGHTING MUST BE NOTIFIED, IN WRITING, A MINIMUM OF TWO WEEKS PRIOR TO THE ACTUAL ENERGIZING OF THE SYSTEM. FAILURE TO OBSERVE THIS PROVISION SHALL AUTOMATICALLY RELIEVE VINCENT LIGHTING OF ANY RESPONSIBILITY CONCERNING THE PROPER OPERATION OF THIS SYSTEM OR ANY PART THEREOF, AND THE REPLACEMENT OF PARTS WHICH MAY HAVE BEEN DAMAGED BY THE PREMATURE ENERGIZING OF THE SYSTEM.

- NOTES:**
1. THIS DRAWING DOES NOT INDICATE THE NUMBER OR SIZE OF CONDUITS REQUIRED, BUT THE SEPARATION OF GROUPS OF WIRES. INTERCONNECTING WIRE AND CONDUIT NOT BY VINCENT LIGHTING.
  2. WHEREVER CONTROL WIRES SHOWN MUST BE RUN CLOSE TO A.C. CONTROL AND/OR POWER CIRCUITS, THESE CONTROL WIRES MUST BE RUN IN SEPARATE METAL CONDUIT.
  3. INCLUDE MINIMUM 10% SPARES IN EACH CONTROL RUN.
  4. PROVIDE AN EQUIPMENT GROUND, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, BETWEEN BUILDING SERVICE ENTRANCE AND THE DIMMER RACK.
  5. BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED.
  6. VINCENT LIGHTING REQUIRES SEPARATE NEUTRALS FOR ALL DIMMING CIRCUITS.

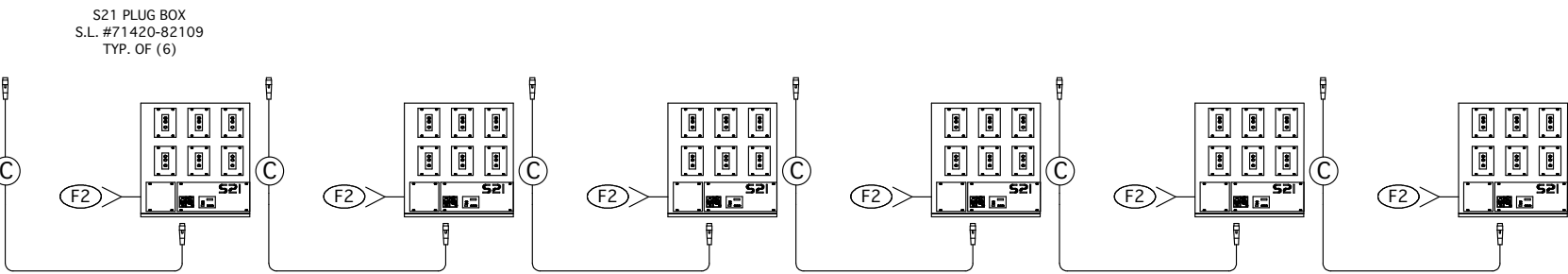
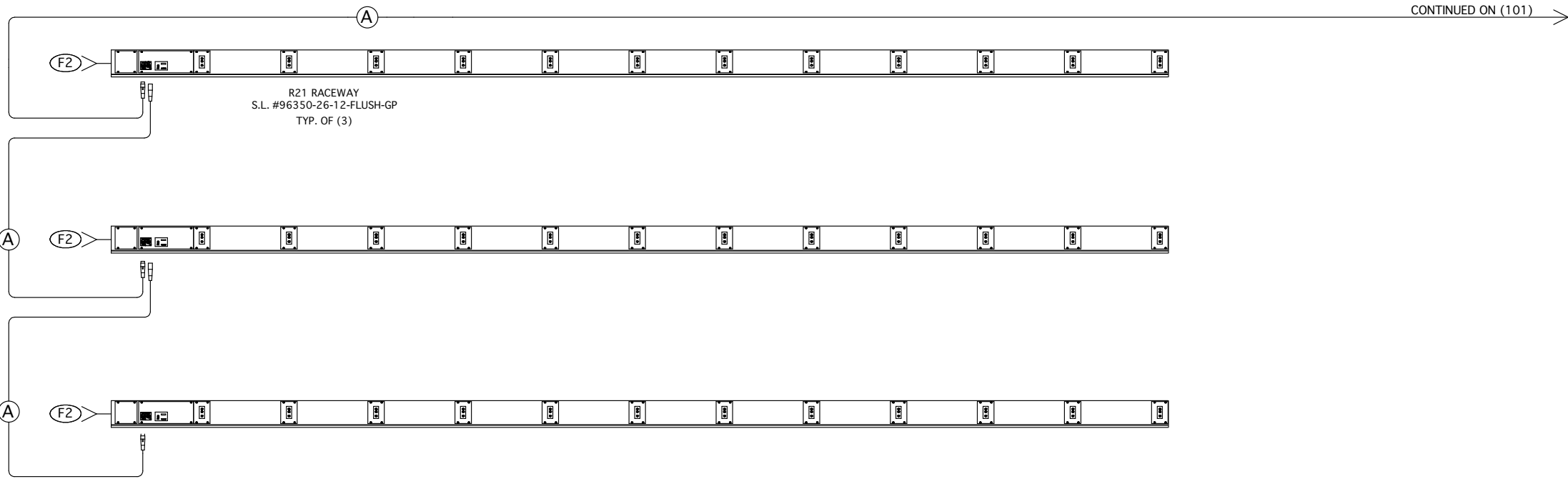
- WIRES AND CABLES BY E.C.:**
- ① BELDEN 9829 - DMX (MAY SUBSTITUTE BELDEN 1583A CAT5E)
  - ② BELDEN 1583A CAT5E VISION.NET
  - ③ BELDEN 1583A CAT5E - SHOWNET
  - ④ 20A CIRCUITS FOR EMERGENCY TRANSFER, AS REQ'D & ( 5 ) 12AWG WIRES - NORMAL POWER SENSE
- ⚠ VISION.NET STATIONS MUST BE INSTALLED IN A DAISY-CHAIN. A SPLITTER WILL BE REQUIRED FOR OTHER CONFIGURATIONS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SPLITTER IF REQUIRED.

- DIMMER RACK FEED:**
- F1 3Ø, 4-WIRE WITH GROUND, 120/208 VAC, 60Hz. [BUSSING AND LUGS RATED FOR 800 AMPS MAX. COPPER CONDUCTORS ONLY]
  - F2 3Ø, 4-WIRE 120/208 VAC 20 AMPS, 60Hz. TERMINAL BLOCK OR OPTIONAL POWER CORD
  - F3 (1) 120V 20A DEDICATED CIRCUIT
  - EF1 3Ø, 4 - 20 AMP CIRCUITS, INDIVIDUAL FEEDS EMERGENCY SERVICE

- EXTENSION CABLES:**
- A CAT5E EXTENSION CABLE, 25' IN LENGTH
  - B ETHERCON EXTENSION CABLE, 25' IN LENGTH

APPVD	DWN	REV	DATE	REV DESCRIPTION

DESIGNER <b>Cynthia Murphy</b>	ENGINEER	JOB NAME <b>IU STUDIO THEATRE BLOOMINGTON, IN</b>	SYSTEM <b>STRAND DIMMING R21 DIMMER STRIPS AND S21 PLUG BOXES</b>
DRAWN BY <b>CKM</b>	DATE <b>02/29/08</b>	STRAND P/N	TITLE <b>CONTROL RISER DIAGRAM</b>
APPVD BY	DATE	SIZE <b>B</b>	SCALE <b>N/A</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ARE: .XX ± .010 .XXX ± .005	DRAWING SHEET <b>1</b> OF <b>2</b>
DRAWING NO. <b>101</b>			REV



CONTINUED ON (101) →

**PROVISIONS:**  
 NO PART OF THIS ELECTRONIC SYSTEM SHALL BE ENERGIZED BEFORE BEING CHECKED AND INSTALLATION APPROVED BY A VINCENT LIGHTING ENGINEER. VINCENT LIGHTING MUST BE NOTIFIED, IN WRITING, A MINIMUM OF TWO WEEKS PRIOR TO THE ACTUAL ENERGIZING OF THE SYSTEM. FAILURE TO OBSERVE THIS PROVISION SHALL AUTOMATICALLY RELIEVE VINCENT LIGHTING OF ANY RESPONSIBILITY CONCERNING THE PROPER OPERATION OF THIS SYSTEM OR ANY PART THEREOF, AND THE REPLACEMENT OF PARTS WHICH MAY HAVE BEEN DAMAGED BY THE PREMATURE ENERGIZING OF THE SYSTEM.

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  2. WHEREVER CONTROL WIRES SHOWN MUST BE RUN CLOSE TO A.C. CONTROL AND/OR POWER CIRCUITS, THESE CONTROL WIRES MUST BE RUN IN SEPARATE METAL CONDUIT.
  3. INCLUDE MINIMUM 10% SPARES IN EACH CONTROL RUN.
  4. PROVIDE AN EQUIPMENT GROUND, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, BETWEEN BUILDING SERVICE ENTRANCE AND THE DIMMER RACK.
  5. BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED.
  6. VINCENT LIGHTING REQUIRES SEPARATE NEUTRALS FOR ALL DIMMING CIRCUITS.

**WIRES AND CABLES BY E.C.:**  
 ① BELDEN 9829 - DMX (MAY SUBSTITUTE BELDEN 1583A CAT5E)

**DIMMER STRIP FEED:**  
 F2 3Ø, 4-WIRE 120/208 VAC 20 AMPS, 60Hz. TERMINAL BLOCK OR OPTIONAL POWER CORD

**EXTENSION CABLES:**  
 A DMX EXTENSION CABLE, 40' IN LENGTH  
 B ETHERCON EXTENSION CABLE, 40' IN LENGTH  
 C DMX EXTENSION CABLE, 15' IN LENGTH

APPVD	DWN	REV	DATE	REV DESCRIPTION

DESIGNER Cynthia Murphy	ENGINEER	JOB NAME IU STUDIO THEATRE BLOOMINGTON, IN	SYSTEM STRAND DIMMING R21 DIMMER STRIPS AND S21 PLUG BOXES AND
DRAWN BY CKM	DATE 02/29/08	STRAND P/N	TITLE DISTRIBUTION RISER DIAGRAM
APPVD BY	DATE	SCALE N/A	SHEET 1 OF 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	TOLERANCES ARE: .XX ± .010 .XXX ± .005	DO NOT SCALE DRAWING	DRAWING NO. 101A