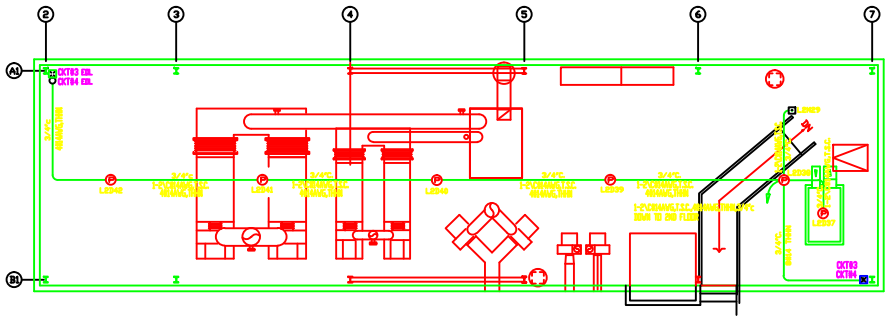
## PAN VIEW - BLDG. #85 3RD FLOOR LAYOUT




SCALE: 3/16" = 1'

## FATC-D AUDIO\VISUAL CIRCUIT DESIGNATIONS

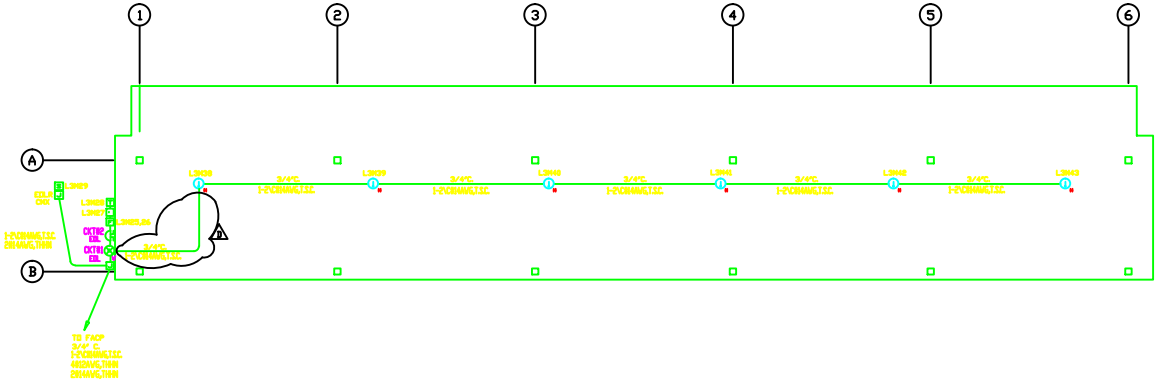
| CKT # | DEVICE | WIRE SIZED USED |
|---|---|---|
| CIRCUIT # 01 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 02 | BELL EP | (2) # 12 AWG THWN |
| CIRCUIT # 03 | STROBE (W) | (2) # 14 AWG THWN |
| CIRCUIT # 04 | BELL | (2) # 14 AWG THWN |
| CIRCUIT # 05 | STROBE (W) | (2) # 14 AWG THWN |
| CIRCUIT # 06 | BELL | (2) # 14 AWG THWN |
| CIRCUIT # 07 | STROBE (W) | (2) # 14 AWG THWN |
| CIRCUIT # 08 | BELL | (2) # 14 AWG THWN |
| CIRCUIT # 09 | STROBE (R) | (2) # 12 AWG THWN |
| CIRCUIT # 10 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 11 | BELL EP | (2) # 12 AWG THWN |
| CIRCUIT # 12 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 13 | STROBE (W) | (2) # 14 AWG THWN |
| CIRCUIT # 14 | BELL | (2) # 14 AWG THWN |
| CIRCUIT # 15 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 16 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 17 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 18 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 19 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 20 | BELL EP | (2) # 12 AWG THWN |
| CIRCUIT # 21 | BELL EP | (2) # 12 AWG THWN |
| CIRCUIT # 22 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 23 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 24 | STROBE (W) EP | (2) # 12 AWG THWN |
| CIRCUIT # 25 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 26 | BELL EP | (2) # 12 AWG THWN |
| CIRCUIT # 27 | STROBE (R) | (2) # 12 AWG THWN |
| CIRCUIT # 28 | STROBE (R) | (2) # 14 AWG THWN |
| CIRCUIT # 29 | STROBE (R) | (2) # 14 AWG THWN |
| CIRCUIT # 30 | STROBE (R) | (2) # 14 AWG THWN |
| CIRCUIT # 31 | STROBE (R) | (2) # 14 AWG THWN |
| CIRCUIT # 32 | STROBE (R) | (2) # 14 AWG THWN |
| CIRCUIT # 33 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 34 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 35 | STROBE (R) EP | (2) # 12 AWG THWN |
| CIRCUIT # 36 | STROBE (R) EP | (2) # 12 AWG THWN |

## GENERAL NOTES

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL FIRE ALARM WIRING AND CONDUIT SHALL BE IN ACCORDANCE WITH NFPA STANDARDS,THE CITY HAVING JURISDICTION,CALIFORNIA ELECTRICAL CODE ,PROJECT DOCUMENTS & THE MANUFACTURER REQUIREMENTS.
2. ALL FIRE ALARM EQUIPMENT SHALL BE CSFM, UL LISTED &/OR FM APPRO VED
3. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. PROVIDE A DEDICATED CIRCUIT.
4. ELECTRICAL CONTRACTOR SHALL INSTALL ALL DACKBOXES PROVIDED BY TRI-SIGNAL, INC UNLESS OTHERWISE NOTED.
5. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; ALL WIRING SHALL BE CUT FOR IN AND OUT.
6. FIRE ALARM SYSTEM MUST BE A POWER LIMITED SYSTEM.
7. ALL WIRING MUST BE POWER LIMITED & INSTALLED BY ELECTRICAL CONTRACTOR
8. ALL WIRING SHALL BE INSTALLED IN AN APPROVED RACEWAY ( 3/4" C. MINIMUM ). (INSTALLED BY ELECTRICAL CONTRACTOR)
9. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANELS SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
10. UL APPROVED THROUGH-PENETRATION FIRE-STOP SYSTEM MUST BE USED WHEN PENETRATIONS OF FIRE RATED WALLS ARE TO BE MADE.
11. ALL FIRE ALARM WIRING MUST TEST FREE OF GROUNDS, SHORTS AND OPENS.
12. THE FIRE ALARM AND DETECTION SYSTEM SHALL BE FULL FUNCTIONAL TESTED IN ACCORDANCE WITH PROJECT DOCUMENTS, U.F.C. AND NATIONALLY RECOGNIZED STANDARDS.
13. T-TAPPING IS ACCEPTABLE ONLY WITH ADDRESSABLE CLASS "B" SYSTEMS.
14. ALL INDICATING APPLIANCE CIRCUITS SHALL BE WIRED WITH #14 AWG THWN WIRE MINIMUM.
15. ALL INITIATING DEVICES SHALL BE WIRED WITH 1-20N4 SHIELDED TWISTED CABLE.
16. 120VAC POWER SOURCE FOR THE HEF HOTORS MUST BE SEPARATE FROM THE POWER TO THE FIRE ALARM CONTROL PANEL, AND MUST BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
17. FIELD VERIFY ALL DEVICE LOCATIONS PRIOR TO INSTALLATION.
18. ANNUNCIATOR ENCLOSURES SHALL BE RATED NEMA-4X FOR OUTDOOR LOCATIONS AND NEMA 1 FOR INDOOR LOCATIONS.
19. PLEASE REFER TO INTERTEK PERFORMANCE GROUP DRAWINGS FOR HIGH EXPANSION FOAM EQUIPMENT INTERCONNECTION
20. CONDUIT SIZES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR MAYBE REQUIRED TO PROOF THE SIZE OF CONDUITS INSTALLED. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSTALL CONDUITS SIZED TO LIMIT WIRE FILL TO 40% OR LESS.
21. CONDUIT PENETRATIONS ARE NOT ALLOWED AT THE BOTTOM OF FIRE ALARM CONTROL PANEL (FACP)
22. ELECTRICAL CONTRACTOR MAYBE REQUIRED TO PROOF ALL J-BOXES MUST HAVE A VOLUME WHICH MEETS ALL THE REQUIREMENTS OF TABLE 738-6 (a) FOR EACH WIRE WHICH ENTERS IT. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSTALL J-BOXES THAT MEET THE FULL REQUIREMENTS

## PLAN VIEW - FLAMMABLE LIQUID STORAGE BLDG. LAYOUT




SCALE: 3/16" = 1'

TRI-SIGNAL INC
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OAKDALE, CA 95361
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LICENSE: 0000970

DRAWN BY: T. NELSON
CHECKED BY: W. CORCID
DATE: 7-29-03
SCALE: AS SHOWN

OWNER:
UNIVERSITY OF CALIFORNIA, BERKELEY
LAWRENCE BERKELEY LABORATORY BUILDING
HAZARDOUS WASTE HANDLING FACILITY
BERKELEY, CA

PLAN VIEW BLDG. 85 3RD FLOOR & FLAMMABLE LIQUID STORAGE
BUILDING FIRE ALARM DETECTION & HFFF FIRE SUPPRESSION SYSTEM

JOB NO: 94-171-004
DWG NO: 4N85E041D
SHEET NO: 4 OF 16

REVISIONS