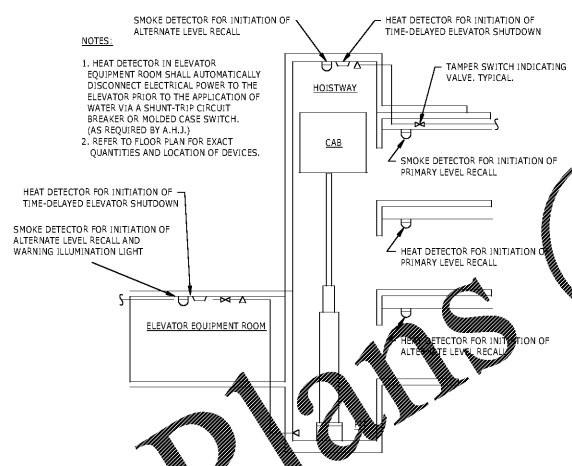
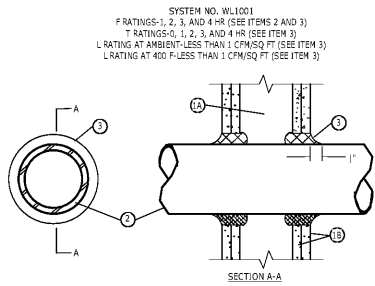


SPEAKER/STROBE WIRING DIAGRAM (CLASS B)
SCALE: NONE
⑧ 1/8" = 1'-0"

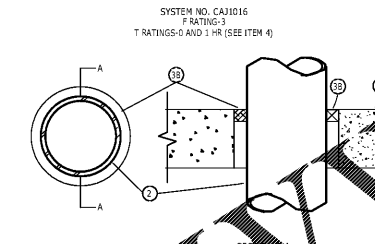


TYPICAL ELEVATOR FIRE PROTECTION DETAIL
SCALE: NONE
⑨ 1/8" = 1'-0"



STEEL PIPE THRU GYPSUM BOARD

1. WALL ASSEMBLY -- THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2" H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 X 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER AND PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
 - B. WALLBOARD, GYPSUM** -- NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
2. PIPE OR CONDUIT -- NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.

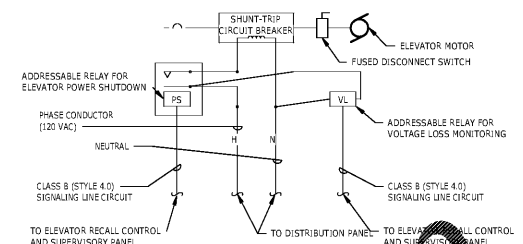


METAL PIPE THRU CONCRETE

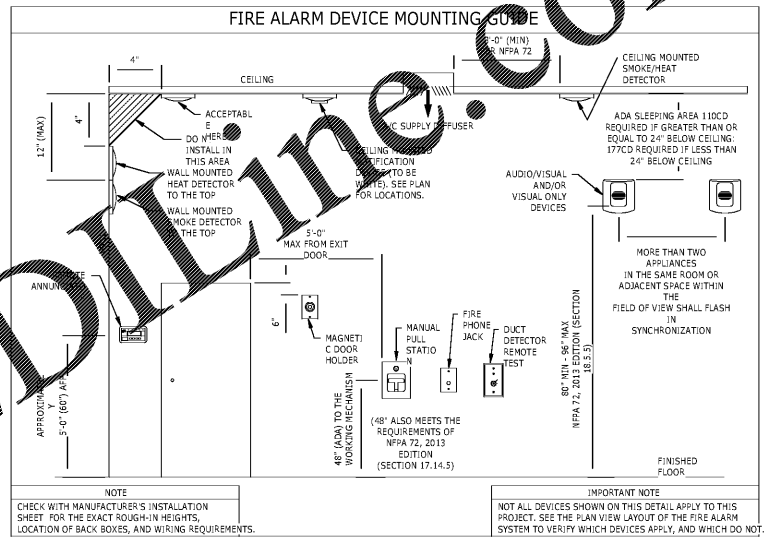
1. FLOOR OR WALL ASSEMBLY -- MIN 4 IN. THICK UNREINFORCED CONCRETE OR MIN 4 IN. THICK REINFORCED CONCRETE. MAX DIAM OF OPENING IS 6 IN. SEE CONCRETE BLOCKS (CAB) CATEGORY IN THE UL FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. CONDUIT, PIPE OR RIGID CABLE TRAY -- NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE CONDUIT, PIPE OR RIGID CABLE TRAY SHALL BE CENTERED IN THE OPENING. THE ANNUAL SPACE SHALL BE AS SHOWN IN THE TABLE BELOW.
3. FORMING MATERIAL -- 1/2 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE FORMING MATERIAL SHALL BE RECESSED FROM THE SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
4. FILL VOID OR CAVITY MATERIAL -- CONCRETE -- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FILL WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. THE T-RATING OF THE SYSTEM IS DEPENDENT ON THE PENETRATING ITEM AND ANNULAR SPACES AS SHOWN IN THE TABLE BELOW:

MAX SIZE OF PENETRATING ITEM	NOMINAL ANNULAR SPACE, IN	T-RATING, HR
6 IN DIAM STEEL PIPE OR CONDUIT	3/4	0
1/2 IN. DIAM STEEL ENT	11/16	1

* BEARING THE UL CLASSIFICATION MARKING

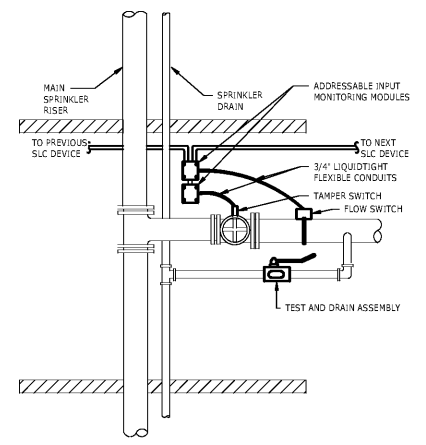


ELEVATOR POWER SHUNT-TRIP SUPERVISORY SIGNAL DETAIL
SCALE: NONE

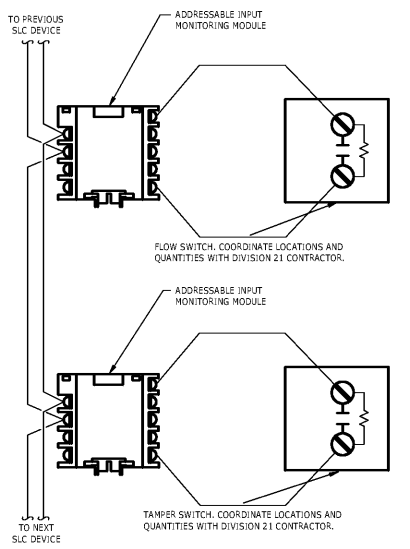


NOTE: CHECK WITH MANUFACTURER'S INSTALLATION SHEET FOR THE EXACT ROUGH-IN HEIGHTS, LOCATION OF BACK BOXES, AND WIRING REQUIREMENTS.

IMPORTANT NOTE: NOT ALL DEVICES SHOWN ON THIS DETAIL APPLY TO THIS PROJECT. SEE THE PLAN VIEW LAYOUT OF THE FIRE ALARM SYSTEM TO VERIFY WHICH DEVICES APPLY, AND WHICH DO NOT.



FIRE SPRINKLER CONTROL VALVE AND DRAIN ASSEMBLY DETAIL
SCALE: NONE



FLOW AND TAMPER SWITCH CONNECTIONS
SCALE: NONE

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