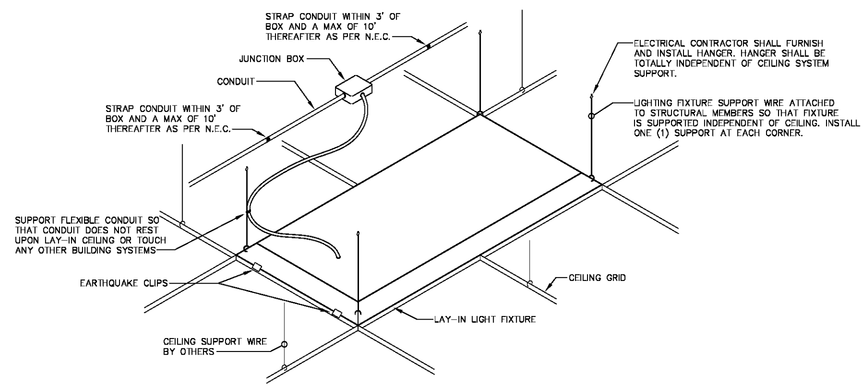
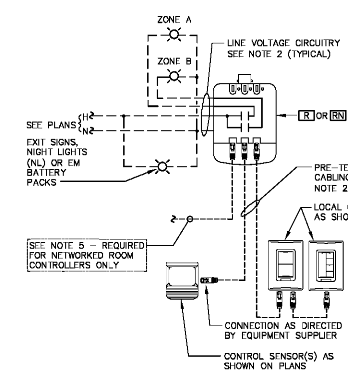
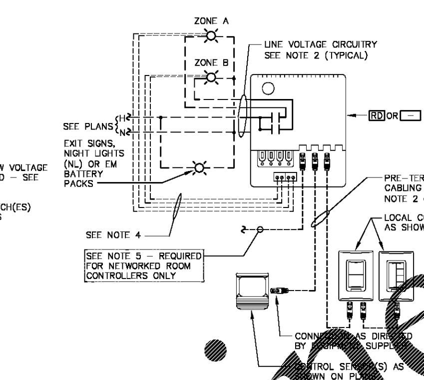


DETAIL "E-FS"
LAY-IN FIXTURE SUPPORT
SCALE : NONE



SCHEME A: ON/OFF CONTROL

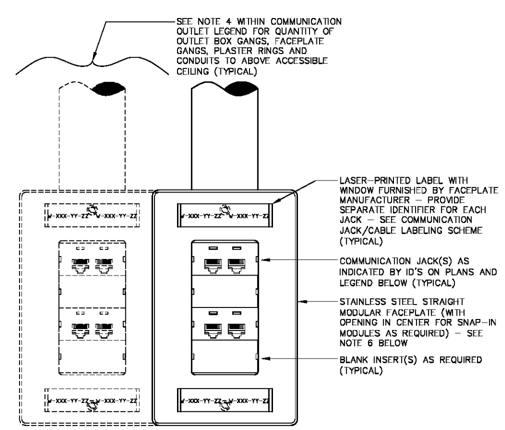


SCHEME B: DIMMING CONTROL

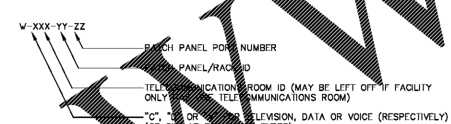
DETAIL "E-RC"
TYPICAL ROOM DIGITAL LIGHTING CONTROL WIRING DIAGRAM(S)
SCALE : NONE

DIAGRAM NOTES

1. DEVICES SHOWN ON THIS DIAGRAM ARE TYPICAL ONLY. EXACT SWITCHING, COMPONENTS, CONNECTIONS, DIMMING TYPE, ETC. WILL VARY. REFER TO PLANS FOR EXACT DEVICES REQUIRED IN EACH SPACE.
2. ALL CIRCUITRY/CABLING SHALL BE CONCEALED. LOW VOLTAGE CABLING MAY BE INSTALLED WITHOUT CONDUIT WHERE ABOVE ACCESSIBLE CEILINGS (IF SUPPORTED EVERY 60" MAXIMUM WITH J-HOOKS). ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT (UNLESS SPECIFICALLY NOTED OTHERWISE) PER SPECIFICATION REQUIREMENTS.
3. THIS DIAGRAM SHOWS GENERAL WIRING REQUIREMENTS ONLY. CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE CONNECTIONS, LINE VOLTAGE CONNECTIONS, EQUIPMENT, ETC. AS RECOMMENDED BY THE LIGHTING CONTROL SYSTEM PROVIDER AS REQUIRED FOR A FULLY FUNCTIONAL DIGITAL LIGHTING CONTROL SYSTEM.
4. CONTRACTOR SHALL FURNISH AND INSTALL ALL LOW VOLTAGE CONTROL CABLING OR ADDITIONAL CONDUCTOR(S) FROM 0-10V DIMMING ROOM CONTROLLER(S) TO ALL 0-10V DIMMED LIGHT FIXTURES AS REQUIRED FOR FULL DIMMING CONTROL OF ALL OVERHEAD LIGHTING THROUGHOUT ASSOCIATED SPACE. EXACT CONTROL CABLING WILL VARY DEPENDING ON FIXTURE DIMMING TYPE. MULTI-CONDUCTOR, PLENUM RATED CABLE SHALL BE USED FOR ALL LOW VOLTAGE CABLING.
5. FOR NETWORKED ROOM CONTROLLERS, CONTRACTOR SHALL FURNISH NETWORK CABLING TO ASSOCIATED MASTER LIGHTING CONTROL SYSTEM AS REQUIRED FOR TIME SWEEP-STYLE AUTOMATIC LIGHTING SHUTOFF – PROVIDE ALL ADDITIONAL COMPONENTS SUCH AS NETWORK BRIDGE(S)/GATEWAY(S) AS REQUIRED.



COMMUNICATION OUTLET ELEVATION



COMMUNICATION JACK/CABLE LABELING SCHEME

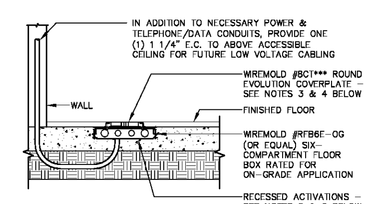
DETAIL "E-CO"
COMMUNICATION OUTLET
SCALE : NONE

COMMUNICATION OUTLET LEGEND

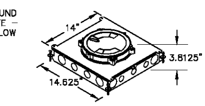
JACK ID(S) SHOWN ON PLANS	JACK TYPE(S)	ASSOCIATED HOMERUN CABLING FROM JACK (SEE NOTE 3 BELOW)	HOMERUN CABLING TO (UNLESS SHOWN OTHERWISE ON PLANS)	REMARKS
1A	ONE (1) WHITE RCA JACK	2-CONDUCTOR, 20 GAUGE, UNSHIELDED SPEAKER CABLING	ASSOCIATED SPEAKERS (SEE PLANS FOR LOCATIONS)	
2A	ONE (1) WHITE RCA JACK (LEFT) ONE (1) RED RCA JACK (RIGHT)	2 SETS OF: 2-CONDUCTOR, 20 GAUGE, UNSHIELDED SPEAKER CABLING	ASSOCIATED SPEAKERS (SEE PLANS FOR LOCATIONS)	
*C	"F" CONNECTOR TELEVISION JACK(S)	RG-6/U COAXIAL CABLE(S)	NEAREST CATV SYSTEM DIRECTIONAL COUPLER OR FRONT-END EQUIPMENT AS DIR. BY SUPPLIER	
*D	RJ45 DATA JACK(S)	CAT6 DATA CABLE(S).	NEAREST DATA PATCH PANEL	
*P	ONE (1) C2G RAPIDRUN #42419 HDMI PASSIVE DECORA JACK & ONE (1) C2G RAPIDRUN #60042 TWO-GANG MULTI-FORMAT WALL PLATE WITH VGA, 3.5MM & RCA AUDIO/VIDEO JACKS – AT FLOORBOX OR POKE-THRU, USE ADAPTER PLATES AS REQUIRED	SEE "PR" JACK/OUTLET REQUIREMENTS	SEE "PR" JACK/OUTLET REQUIREMENTS	SEE NOTE 8 BELOW
*PR	ONE (1) C2G RAPIDRUN HDMI #42419 PASSIVE DECORA (USE ACTIVE DECORA JACK #42420 IF CABLE LENGTH TO #P OUTLET IS MORE THAN 30') & ONE (1) C2G RAPIDRUN #60042 TWO-GANG MULTI-FORMAT WALL PLATE WITH VGA, 3.5MM & RCA AUDIO/VIDEO JACKS	ONE (1) C2G RAPIDRUN #4118* DIGITAL PLENUM RUNNER CABLE & ONE (1) C2G RAPIDRUN #6001* PLENUM MULTI-FORMAT ALL-IN-ONE RUNNER CABLE	ASSOCIATED LOW VOLTAGE "*P" OUTLET AT WALL/FLOOR	SEE NOTES 8 & 9 BELOW
*V	RJ45 VOICE JACK(S)	CAT6 VOICE CABLE(S).	NEAREST TELEPHONE PATCH PANEL/BACKBOARD	
1VW	ONE (1) RJ45 VOICE JACK	ONE (1) CAT6 VOICE CABLE.	NEAREST TELEPHONE PATCH PANEL/BACKBOARD	SEE NOTE 6 BELOW

NOTES:

1. THE ASTERISK "*" WITHIN THE JACK ID SECTION ABOVE REPRESENT THE QUANTITIES OF EACH JACK/CABLE TYPE. FOR EXAMPLE, "3D" REPRESENTS THREE (3) DATA JACKS/CABLES.
2. THE JACK IDENTIFIERS SHOWN ABOVE MAY BE COMBINED TOGETHER ON PLANS. FOR EXAMPLE, THE IDENTIFIER "1V2D1C" REPRESENTS ONE (1) VOICE JACK/CABLE, TWO (2) DATA JACKS/CABLES AND ONE (1) COAXIAL TV JACK/CABLE. OUTLETS MAY CONSIST OF ANY COMBINATION OF THE ABOVE JACK TYPES.
3. ALL LOW VOLTAGE CABLING SHALL BE PLENUM-RATED.
4. THE QUANTITY OF OUTLET BOX GANGS AND CONDUITS FOR EACH COMMUNICATION OUTLET ASSEMBLY SHALL BE AS FOLLOWS:
   - 1-2 JACKS: 1-GANG OUTLET BOX WITH 1-GANG FACEPLATE AND ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
   - 3-4 JACKS: 2-GANG OUTLET BOX WITH 1-GANG PLASTER RING, 1-GANG FACEPLATE AND ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
   - 5-8 JACKS: 2-GANG OUTLET BOX WITH 2-GANG FACEPLATE AND TWO 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
   - 9-12 JACKS: 3-GANG OUTLET BOX WITH 3-GANG FACEPLATE AND THREE 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
5. PROVIDE A NYLON BUSHING ON EACH END OF EACH CONDUIT (SPECIFIED WITHIN NOTE 4 ABOVE) TO PROTECT CABLES.
6. TYPE "1VW" OUTLETS SHALL BE FURNISHED WITH STAINLESS STEEL WALL-MOUNT TELEPHONE PLATES WITH MOUNTING STUDS AND RECESSED JACKS AND SHALL BE MOUNTED AT 54" A.F.F. UNLESS NOTED OTHERWISE.
7. COMMUNICATION OUTLET SHALL BE LOCATED A MAXIMUM OF 8 INCHES FROM THE ADJACENT POWER OUTLET.
8. ALL AV CABLING TYPES SHALL BE CONFIRMED WITH OWNER PRIOR TO ORDERING MATERIALS.
9. COORDINATE LOCATION OF ALL OUTLETS AT PROJECTOR WITHIN PROJECTOR BASE WHERE POSSIBLE.



SECTION



ISOMETRIC

DETAIL "E-FB1"
MULTI-SERVICE FLOOR BOX (MEDIUM SIZE)
SCALE : NONE

DETAIL NOTES

1. THE EXACT LOCATIONS AND ORIENTATIONS OF ALL FLOOR BOXES SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PENETRATIONS THROUGH SLABS AND OPENINGS/CONDUITS WITHIN SLABS WITH THE INSTALLER OF THE SLABS PRIOR TO ROUGH-IN.
3. ALL COVERPLATE MATERIALS/FINISHES SHALL BE AS SELECTED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE CARPET/TILE CUTOUT INSERTS IN COVERPLATE LID (TO MATCH ADJACENT CARPET/TILE) WHERE LID HAS AN INSERT AREA.
4. ALL COVER FLANGE OPTIONS SHALL GENERALLY BE AS FOLLOWS, BUT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW/APPROVAL PRIOR TO ORDERING FLOOR BOXES:
   a. CARPET AND VCT FLOORING: FLANGED TRIM.
   b. EXPOSED CONCRETE, WOOD, TILE OR SIMILAR FLOORING (WITH GROUTING): FLANGELESS TRIM.
5. EACH FLOOR BOX SHALL BE PROVIDED WITH TWO (2) 20A-125V-1P, GROUNDING NEMA 5-20R DUPLEX POWER RECEPTACLES CONNECTED TO THE CIRCUITS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
6. EACH FLOOR BOX SHALL BE PROVIDED WITH COMMUNICATION JACKS AND ASSOCIATED LOW VOLTAGE CABLING AS INDICATED BY "1V2D" OR SIMILAR NOTATIONS ON PLANS. CONTRACTOR SHALL REFER TO THE COMMUNICATION OUTLET LEGEND AT DETAIL "E-CO" FOR A DESCRIPTION OF ALL ASSOCIATED JACK & CABLE TYPES.

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