

Wall Mounted

Symbol	Description
	Wall box, 4-11/16" Sq. x 2-1/2" Dp., with single-gang cover plate. For hearing assistance transmitter. Mount flush with finished wall treatment, at height and location as indicated on drawings.
	Wall box, 4-11/16" high x 2-1/2" Dp., with single-gang cover plate. For intercom receptacle. Mount flush with finished wall treatment, at building standard base electrical height unless otherwise indicated.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For television receptacle. Mount flush with finished wall treatment, at height and location as indicated on drawings. Subnumber indicates number of gang.
	Wall box, 4-11/16" Sq. x 2-1/2" Dp., with single-gang cover plate. For audio receptacle. Mount flush with finished wall treatment, at height and location as indicated on drawings.
	Junction box for power, sized by electrical contractor. Surface mount on wall at height indicated.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For video camera receptacles. Mount flush with finished wall treatment, at height and location as indicated on drawings. Box should be 2 gang unless otherwise noted on drawing.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For control receptacles. Mount flush with finished wall treatment, at building standard base electrical height unless otherwise indicated. Subnumber indicates number of gang.
	Wall box, 4-11/16" high x 2-1/2" Dp., with double gang cover plate. For computer receptacles. Mount flush with finished wall treatment, at building standard base electrical height unless otherwise indicated. Subnumber indicates number of gang.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For microphone receptacles. Mount flush with finished wall treatment, at building standard base electrical height unless otherwise indicated. Subnumber indicates number of gang.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For video receptacles. Mount flush with finished wall treatment, at building standard base electrical height unless otherwise indicated. Subnumber indicated number of gang.
	Wall box, 4-11/16" Sq. x 2-1/2" Dp., with single-gang cover plate. For simultaneous interpretation receptacles. Mount flush with finished wall treatment, at height and location as indicated on drawings.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For audio and video receptacles. Mount flush with finished wall treatment, at building standard base electrical height unless otherwise indicated. Subnumber indicated number of gang.
	Junction box. For signal and control circuits. Location as indicated on drawing. Sized by electrical engineer unless indicated on drawing.
	Junction box 4-11/16" Sq. x 2-1/8" Dp., with blank cover plate. For warning light system. Wiring shall be installed and connected to the warning lights and terminated in this box. Do not connect to power. Surface mount at location indicated.
	Wall box 22" high x 19" wide x 8" deep. Mounted on wall at height indicated on drawing.

	Power receptacle, duplex, 120 VAC, 20 Amp. Mount at building standard base electrical height unless otherwise indicated. Letter denotes circuit#.
	Power receptacle, quad, 120 VAC, 20 Amp. Mount at building standard base electrical height unless otherwise indicated. Letter denotes circuit#.
	Power receptacle, duplex, 120 VAC, 20 Amp. Mount in lower section of G-4000 wiremold. Letter denotes circuit#.
	Power receptacle, 208 VAC, 20 Amp. mounted in lower section of G-4000 wiremold. Letter denotes circuit#.
	Power receptacle, single, 120 VAC, 30 Amp. Mount at building standard base electrical height unless otherwise indicated. Letter denotes circuit#.
	Power receptacle, 208 VAC, 20 Amp. Mount at building standard base electrical height unless otherwise indicated. Letter denotes circuit#.

Telecommunication Devices

Symbol	Description
	Wall mounted telecom outlet box and connector at standard base height. Unless otherwise noted on drawings.
	Wall mounted telecom outlet box with Analog telephone service. Sub-number indicates number of lines.
	Wall mounted telecom outlet box with ISDN BRI circuit. Sub-number indicates number of lines.
	Wall mounted telecom outlet box for data service only. Sub-number indicates number of lines.
	Wall mounted telecom outlet box with Switch 56 telephone service. Sub-number indicates number of lines.
	Wall mounted telecom outlet box with T-1 telephone service. Sub-number indicates number of lines.
	Wall mounted telecom outlet box with data and telco service. Sized by others.

Floor Slab or Ceiling Slab Mounted

Symbol	Description
	Power receptacle, (1) 120V 20A duplex with hinged lift lids and carpet flange. Flush mount in floor. Finish as specified by Architect. Letter denotes circuit#.
	Custom floor box, for use by AV Contractor. With hinged cover plate and carpet flange. Flush mount in floor. FSR inc. floor box Model FL-500p (6" deep) with divided compartments for power, telecom & Audiovisual connectors. Unless otherwise specified on drawing. FSR inc. phone (973) 785-4347. (REFERENCE DETAIL THIS SHEET)
	Building standard Floor box. No AV connectivity. Power and Data/Telco required. Box to be specified by electrical engineer.
	Junction box. 12"x12"x6" D, mounted on slab, below raised floor. For audiovisual system conduits.
	Junction box for power, sized by electrical engineer. Surface mount on slab unless otherwise indicated.
	Junction box, 6" x 6" x 4" Dp. with removable cover for audio receptacle. Surface mounted on slab. Unless otherwise noted on drawings.
	Junction box, 6" x 6" x 4" Dp. with removable cover for video receptacle. Surface mounted on slab. Unless otherwise indicated on drawings.
	Junction box, 6" x 6" x 4" Dp. with removable cover for microphone receptacle. Surface mounted on slab. Unless otherwise noted on drawings.
	Junction box for cable/conduit termination. Sized by electrical contractor. All conduits terminate at this box. Unless otherwise noted.
	Wall box 6" x 8" x 3-1/2" dp., with cover plate. For video camera connections. Surface mounted on slab. Unless otherwise indicated on drawings.
	Junction box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For wireless mic antenna. Surface mount on slab. Unless otherwise indicated. Subnumber indicates number of gang.

Ceiling Mounted

Symbol	Description
	Wall box, 4-11/16" Sq. x 2-1/2" Dp., with single-gang cover plate. For microphone receptacles. Mount flush with ceiling treatment.
	Wall box, 4-11/16" Sq. x 2-1/2" Dp., with single-gang cover plate. For audio receptacle. Mount flush with finished ceiling treatment.
	Junction box. For signal and control circuits. Location as indicated on drawing. Sized by electrical engineer unless indicated on drawing.
	Junction box for power, sized by electrical engineer. Mount above finished ceiling.
	Screen or shade motor mounted above finished ceiling.
	Junction box, 6" x 6" x 4" Dp. with removable cover for video receptacle. Mounted above finish ceiling unless otherwise indicated on drawings.
	Wall box, 4-11/16" Sq. x 2-1/2" Dp., with single-gang cover plate. For television receiver receptacle. Mount flush with ceiling treatment.
	Ceiling speaker enclosure. Flush mount in finished ceiling. Sound Advance CT73 speaker, PBB 2.9 back box, Sound Advance SA-2 speaker SA2-BB4 back box. Unless otherwise specified on drawings.
	Ceiling speaker enclosure. Flush mount in finished ceiling. Soundolier 95-8-7 backbox. Unless otherwise specified on drawings.
	Ceiling speaker enclosure. Flush mount in finished ceiling. Soundolier 95-8-7 backbox. Unless otherwise specified on drawings.
	Ceiling mounted power receptacle duplex (1) 120V 20A Letter denotes circuit#.
	Light track, single-circuit. Surface mount to ceiling, as shown on drawings. Track lights shall be on dimmer switches. LIGHTOLIER Basic Lytespan, single circuit, track with mounting hardware and #7644 fixtures. Matte black finish. Refer to drawings for location and number of fixtures required.
	Recessed fluorescent light fixture with 2 lamps. MARK LIGHTING #T09565 with PHILIPS LIGHTING LAMP #F40AX35
	Recessed fluorescent light fixture with 2 lamps. MARK LIGHTING #T09529 with PHILIPS LIGHTING LAMP #F40AX35
	Ceiling mount camera, enclosure. FSR, INC. model #SDCM-2 FSR, INC. phone (973) 785-4347
	Projection screen or shade control relay box. Supplied with screen or shade. Mount above finished ceiling unless otherwise indicated. Maintenance access to box shall be provided.

Wall Mounted at Switch Height

Symbol	Description
	Wall switch for projection screen raise/lower. Supplied with screen. Mount at building standard switch height, unless otherwise indicated.
	Wall switch for Shade open/stop/close position. Supplied with shade. Mount at building standard switch height, unless otherwise indicated.
	Wall switch for general room lighting. Flush mount at building standard switch height, unless otherwise indicated.
	3-way Wall switch for general room lighting. Mount at building standard switch height, unless otherwise indicated.
	Wall box, 4-11/16" high x 2-1/2" Dp., with multi-gang cover plate. For volume control. Mount flush with finished wall treatment, at building standard electrical height, unless otherwise indicated. Subnumber indicates number of gang.
	Rotary dimmer, for track light, flush mount at building standard switch height, unless otherwise indicated.
	Dimmer rack/av interface
	Power breaker panel, sized by electrical engineer.
	Relay cabinet for low voltage control of power and lighting circuits. With low voltage and high voltage sections. Surface mount at location and height as indicated.
	Four scene lighting preset panel, supplied by lighting dimmer manufacturer, for general room lighting and dimmer, flush mount at building standard switch height, unless otherwise indicated.

Cable Management Wireways

Symbol	Description
	Raceway, with divider. WIREMOLD G-4000. Surface mount as indicated on drawing.
	Raceway, with divider. WIREMOLD G-5500. Surface mount as indicated on drawing.
	Aluminum raceway, 3 section with removable cover wiremold 745 series black. Mount as indicated on drawings.
	Divided cable trough system, 4 partitions, flush mounted in slab with removable access panels. Location and size as indicated on drawing. Specified and detailed by Architect.
	4" x 4" cable trough with cover plate. Length as required. Location as indicated on drawings.
	8" x 8" cable trough with cover plate. Length as required. Location as indicated on drawings.

Abbreviations

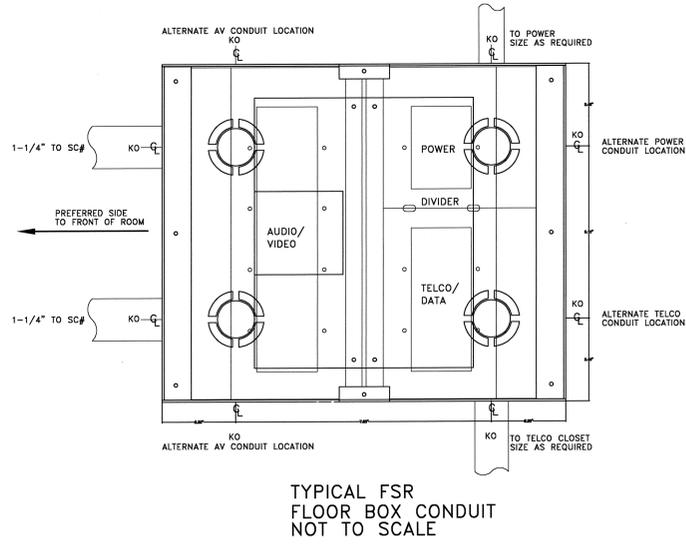
AS	Above slab.
AFF	Above finished floor.
AFC	Above finished ceiling.
EC	Empty conduit.
AFP	Above finished platform or raised floor.
OFE	Owner Furnished Equipment
NIC	Not in contract
—	Empty conduit run.
2	Power circuit with circuit number
—	Power circuit.
6	Stub down
6	Stub up

Audiovisual Electrical Drawing Notes

- These drawings are intended only as design input to the Architect and Electrical Engineer. It is not intended for field issue.
- All equipment shown in phantom is for reference only. Such equipment will be provided and installed by the AV Trade Contractor, not the general contractor nor the electrical contractor.
- Where exact dimensions are not called for, the scale of this drawing is sufficiently accurate for determining location of equipment, junction boxes, outlet boxes, wireways, panels, etc. Where exact dimensions are called for, the reference surface shall be the final finished surface including any acoustical treatment. Room dimensions on this drawing have been taken from preliminary architectural drawings. All dimensions must be verified and any deviations causing changes exceeding 3 inches in the location of grid pipes, cyclorama tracks, or operational lighting must be coordinated with Shen Milsom & Wilke, Inc.
- All power conduit, power wireways, and power junction boxes are to be reviewed by the electrical engineer for code compliance.
- Empty conduit runs on this drawing show only interconnection between the termination points. The exact path of conduit are to be determined by the electrical contractor and field conditions.
- All empty conduit on this drawing to be 3/4 inch unless otherwise noted. All empty conduit shall be deburred, cleaned, capped, tagged, and furnished with pull wires.
- There shall be a minimum of one pull box for every 100 feet of straight empty conduit and a pull box for more than two 90 degree bends in a conduit run.
- Power receptacles shown on this drawing are dedicated to specific audiovisual and television equipment. Refer to electrical drawings for additional utility power receptacles.
- Power breaker panels are sized and specified by the electrical engineer, refer to electrical drawings. All circuits shall be protected by 120VAC, 20 amp breakers unless otherwise detailed.
- Where power circuits are shown terminating in junction boxes without receptacles, the wires shall be taped and the boxes covered. These circuits will be connected by others during installation of the audiovisual systems equipment.
- All cable tray that is surface mounted on slab below raised floor shall be securely fastened to slab. These trays shall be left open and not provided with covers.
- The method of installation of boxes in walls, and the method of passage of conduits and wireways through acoustically sensitive walls shall be coordinated with the acoustical consultant.
- Electrical feeds are not to be run parallel with video and/or audio lines or raceways. If electrical feeds must run parallel to audio/video lines, a minimum of 4 ft. of separators must be maintained.
- Electrical contractor is responsible for providing all electrical boxes with appropriate covers. Finish to be determined by architect.

Abbreviations

	10" W X 2-1/2" X Length as required cable trench. Flush mounted in slab at location shown on drawing.
	Cable trench floor access box. Flush mounted in trench at location shown on drawings
	12" Wide x 4" Dp. ceiling mounted cable tray mounted in ceiling.



REQUIRES COORDINATION TO ELECTRICAL DRAWINGS

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UT-BATTELLE
 Oak Ridge National Laboratory
 managed for the DEPARTMENT OF ENERGY under
 U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725
 PROJECT NAME:

SPALLATION NEUTRON SOURCE
 AUDIO VISUAL SYSTEMS
 ELECTRICAL DRAWINGS
 SYMBOLS AND NOTES

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	4/8	4/8	5/0	PLANT	8
2	5/1	5/1	5/1	BLDG	8600
3	5/1	5/1	5/1	FL	ALL
4	5/1	5/1	5/1	SH.	1
5	5/1	5/1	5/1	OF	1
6	5/1	5/1	5/1	TYPE	L
7	5/1	5/1	5/1	CLASS	U
8	5/1	5/1	5/1	REV	0

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NUMBER OF SECTION OR DETAIL:

THIS DOCUMENT CONTROLLED BY:

CHANGE CONTROL SYSTEM: 4

ENGINEERING PROCEDURE: SNS-ENG-0001

SECTION AND DETAIL KEY

REV	DATE	BY	CHKD.	APP'D.	REVISION
0					Certified for Construction, May 15, 2001

Robert L. Barnes
 State of Tennessee
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