

Solicitation No. - N° de l'invitation
10034156/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
C93

Client Ref. No. - N° de réf. du client
RAS 13-14383-0

File No. - N° du dossier
C93-10034156

CCC No./N° CCC - FMS No./N° VME

APPENDIX G to ANNEX A

CONDUIT REQUIREMENTS

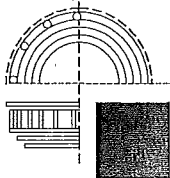
FLOOR 2

Dialog 90 Elgin AV Phase 2
Conduit Requirements for Electrical Drawings – Revised for 100% AV System Design
Revision 2

The following tables show the Audio Visual conduit requirements based on the 100% R1 AV System Budget Equipment List provided October 29, 2013. This is an updated conduit list from revision one sent September 23, 2013 to include the additional items Finance has requested to be part of the AV system. This report provides the final conduit list for the 100% R1 AV System Design. This list matches conduits shown on AV Drawings AV001-AV020.

0257 Main Conference Room

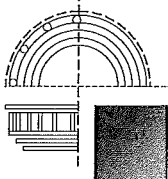
| No. | Start Point | | Conduit Type | End Point | | Start Point Power/Network | |
|-----|---------------|--|--------------|--|--|---|-----------------------|
| | Conduit From: | AV Label / Box / termination: | | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | Projector 1 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub A Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 2 | Projector 2 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub A Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 3 | Projector 3 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub A Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 4 | Projector 4 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |



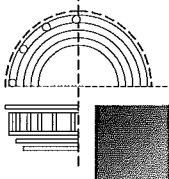
STATE OF THE ART ACOUSTIK INC.

43 – 1010 Polytek Street Ottawa, ON K1J 9J3 www.sota.ca E:sota@sota.ca T:613-745-2003 F: 613-745-9687

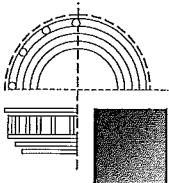
| | | | | | | | |
|--------|-------------------------------|---|----------|--|---|--|--------------------|
| 5 | Projector 5 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 6 | Projector 6 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 7 | Motorized Projection Screen 1 | LVCIII control module mounted to slab, above left end of projection screen case | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub C Starting at ceiling bulkhead to Tech Booth 0254 | Yes (BX to supplied LVCIII control module) | No |
| | | | | Single Gang Wall Switch | Single Gang Wall Switch | No | |
| 8 | Motorized Projection Screen 2 | LVCIII control module mounted to slab, above left end of projection screen case | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub C Starting at ceiling bulkhead to Tech Booth 0254 | Yes (BX to supplied LVCIII control module) | No |
| | | | | Single Gang Wall Switch | Single Gang Wall Switch | No | |
| 9 | LCD 1 | Single gang mounted flush to ceiling above LCD location | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub D Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling) | No |
| 10 | LCD 2 | Single gang mounted flush to ceiling above LCD location | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub D Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling) | No |
| 11 REV | Camera 1 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 12 REV | Camera 2 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 13 REV | Camera 3 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to Tech Booth 0254 | No | No |



| | | | | | | | |
|-----------|----------------------------------|--|--|---|---|----|----|
| 14 REV | Camera 4 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 15 REV | Camera 5 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 16 | Ceiling flush-mounted speakers | None | 1 x 27 mm Stub F Starting at ceiling bulkhead | Open End Conduit, above Audio rack location | Tech Booth 0254 | No | No |
| 17 | Wall mounted loudspeakers - LEFT | Single gang Mounted behind speaker, approximately 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub F Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 18 | Wall mounted loudspeaker - RIGHT | Single gang Mounted behind speaker, approximately 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub F Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 19 | IR Transceiver 1 - 4 | 102x102x50 box each | 1 x 27mm Stub G through wall above ceiling | Open End Conduit, above audio rack | Tech Booth 0254 | No | No |
| 20 | IR Transceiver 5 - 8 | 102x102x50 box each | 1 x 27mm Stub H through wall above ceiling | Open End Conduit, above audio rack | Tech Booth 0254 | No | No |
| 21 | Not used | | | | | | |
| 22 | Crestron panel at door | FSR WB-X3-PLT Locking Cover Back Box 1524 mm A.F.F. | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub I Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 23 | Cable TV IR Control | Single gang centered between the screens 2438 mm A.F.F | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub I Starting at ceiling bulkhead to Tech Booth 0254 | No | No |
| 24 | Secure Room Indicator Light | Single gang centered above interpreter window 2438 mm A.F.F. | 1 x 21mm | Open End Conduit, above video rack location | Tech Booth 0254 | No | No |
| 25 | Assistive Listening System | None | 1 x 27mm Stub J through wall at floor | Open End Conduit, below audio rack location | Tech Booth 0254 | No | No |

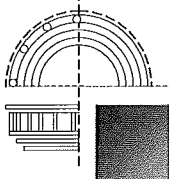


| | | | | | | | |
|--------|---------------------------------|--|---|---|--|--|---------------------------------------|
| 26 | Wireless Mic Receiver Antenna 1 | Single gang 225 mm left of center above interpreter window 2438 mm A.F.F. | 1 x 21mm | Open End Conduit, above audio rack location | Tech Booth 0254 | No | No |
| 27 | Wireless Mic Receiver Antenna 2 | Single gang 225 mm right of center above interpreter window 2438 mm A.F.F. | 1 x 21mm | Open End Conduit, above audio rack location | Tech Booth 0254 | No | No |
| 28 | Not used | | | | | | |
| 29 REV | Table Floor Boxes 1 - 3 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub K through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 30 REV | Table Floor Boxes 4 - 6 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub L through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 31 REV | Table Floor Boxes 7 - 9 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub M through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 32 REV | Table Floor Boxes 10 - 12 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub N through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 33 REV | Podium Floor Boxes 1 - 2 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub O through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 34 REV | Podium Floor Boxes 3 - 4 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub P through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 35 REV | Podium Floor Boxes 5 - 6 | Floor Box* Wiremold EFB6S | 1 x 27mm Stub Q through wall below raised floor | Open End Conduit, above video rack location | Tech Booth 0254 | Yes (1 duplex receptacle per box) | Data connection and routing by others |
| 36 NEW | LCD 3 | Single gang mounted flush to ceiling above LCD location | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub D Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling) | No |
| 37 NEW | LCD 4 | Single gang mounted flush to ceiling above LCD location | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub D Starting at ceiling bulkhead to Tech Booth 0254 | Yes (1 duplex receptacle flush with ceiling) | No |

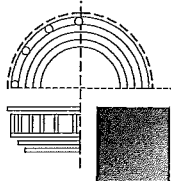


0266 Media Room

| No. | Start Point | | Conduit Type | End Point | | Start Point Power/Network | |
|-------|--------------------------------|---|--|--|--|--|---------------------|
| | Conduit From: | AV Label / Box / termination: | | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | Projector 1 | Single gang box flush with CLARO panel ceiling | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub A Starting at ceiling bulkhead to AV Closet 0267 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| | | | | Single gang box flush with CLARO panel ceiling | Projector 2 | | |
| 2 | Projector 2 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Single gang box flush with CLARO panel ceiling | Projector 1 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 3 | Motorized Projection Screen 1 | LVCIII control module mounted to slab, above left end of projection screen case | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to AV Closet 0267 | Yes (BX to supplied LVCIII control module) | No |
| | | | | Single Gang Wall Switch | Single Gang Wall Switch | No | |
| 4 | Motorized Projection Screen 2 | LVCIII control module mounted to slab, above left end of projection screen case | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to AV Closet 0267 | Yes (BX to supplied LVCIII control module) | No |
| | | | | Single Gang Wall Switch | Single Gang Wall Switch | No | |
| 5 REV | Camera 1 FUTURE | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub A Starting at ceiling bulkhead to AV Closet 0267 | Yes (1 duplex receptacle flush with ceiling) | No |
| 6 REV | Camera 2 FUTURE | Single gang box flush with ceiling tile | 1 x 27mm Stub A through wall above ceiling | Open End Conduit, above rack location | AV Closet 0267 | Yes (1 duplex receptacle) | No |
| 7 | Ceiling flush-mounted speakers | None | 1 x 27 mm Stub C through wall above ceiling | Open End Conduit, above rack location | AV Closet 0267 | No | No |



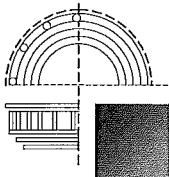
| | | | | | | | |
|----|----------------------------------|--|---|--|--|---------------------------|---------------------------------------|
| 8 | Wall mounted loudspeakers - LEFT | Single gang Mounted behind speaker, approximately 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub C Starting at ceiling bulkhead to AV Closet 0267 | No | No |
| 9 | Wall mounted loudspeaker - RIGHT | Single gang Mounted behind speaker, approximately 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub C Starting at ceiling bulkhead to AV Closet 0267 | No | No |
| 10 | IR Transceiver 1-4 | 102x102x50 box each | 1 x 27mm Stub D through wall above ceiling | Open End Conduit, above audio rack | AV Closet 0267 | No | No |
| 11 | Not used | | | | | | |
| 12 | Crestron panel at door | FSR WB-X3-PLT Locking Cover Back Box 1524 mm A.F.F. | 1 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to AV Closet 0267 | No | No |
| 13 | Cable TV IR Control | Single gang centered between the screens 2438 mm A.F.F | 1 x 21mm | Open End Conduit at edge of ceiling tile | Slab above box, via 27 mm Stub E To AV Closet 0267 | No | No |
| 14 | Assistive Listening System | None | 1 x 27mm Stub F through wall at floor | Open End Conduit, above rack location | AV Closet 0267 | No | No |
| 15 | Wireless Mic Receiver Antenna 1 | Single gang 225 mm left of center above AV Closet 2438 mm A.F.F. | 1 x 21mm | Open End Conduit, above rack location | AV Closet 0267 | No | No |
| 16 | Wireless Mic Receiver Antenna 2 | Single gang 225 mm left of center above AV Closet 2438 mm A.F.F. | 1 x 21mm | Open End Conduit, above rack location | AV Closet 0267 | No | No |
| 17 | Not used | | | | | | |
| 18 | Table Floor Box 1 | Floor Box 1* FSR FL-500P-8 (installed) | 1 x 27 mm (installed) | Open End Conduit, above rack location | AV Closet 0267 | Yes (1 duplex receptacle) | Data connection and routing by others |
| 19 | Table Floor Box 2 | Floor Box 2* FSR FL-500P-8 (installed) | 1 x 27 mm (installed) | Open End Conduit, above rack location | AV Closet 0267 | Yes (1 duplex receptacle) | Data connection and routing by others |
| 20 | Podium Wall Box | single gang adjacent to other electrical boxes 457 mm A.F.F. | 1 x 21 mm | Open End Conduit, above rack location | AV Closet 0267 | Yes (1 duplex receptacle) | Data connection and routing by others |



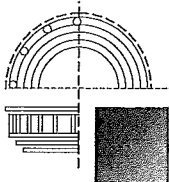
| | | | | | | | |
|----|--|--|------------------------|---------------------------------------|----------------|--|----|
| 21 | Media Panel 1 | 18x15x6 surface mount beside skyfold partition 914 mm A.F.F. to top of panel | 1 x 63 mm 1 x 53 mm | 18x15x6 box | Outside | Yes (6 duplex receptacles) 6 individual ccts – 1 per media | No |
| 22 | Media Panel 2 (floor audio and connection for portable interpretation booth) | 18x12x6 surface mount beside skyfold partition 1024 mm A.F.F. to bottom of panel | 2 x 41 mm | Open End Conduit, above rack location | AV Closet 0267 | No | No |

0269 Meeting Room

| No. | Start Point | | Conduit Type | End Point | | Start Point Power/Network | |
|-----|--------------------------------|---|--|--|--|---|-----------------------|
| | Conduit From: | AV Label / Box / termination: | | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | Projector 1 | Single gang box flush with CLARO panel ceiling | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub A Starting at ceiling bulkhead to AV Closet 0270 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| | | | | Single gang box flush with CLARO panel ceiling | Projector 2 | | |
| 2 | Projector 2 | Single gang box flush with CLARO panel ceiling | 1 x 21mm | Single gang box flush with CLARO panel ceiling | Projector 1 | Yes (1 duplex receptacle flush with ceiling beside AV box) | Yes (1 connection) |
| 3 | Motorized Projection Screen 1 | LVCIII control module mounted to slab, above left end of projection screen case | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to AV Closet 0270 | Yes (BX to supplied LVCIII control module) | No |
| | | | | Single Gang Wall Switch | Single Gang Wall Switch | | |
| 4 | Motorized Projection Screen 2 | LVCIII control module mounted to slab, above left end of projection screen case | 2 x 21mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub B Starting at ceiling bulkhead to AV Closet 0270 | Yes (BX to supplied LVCIII control module) | No |
| | | | | Single Gang Wall Switch | Single Gang Wall Switch | | |
| 5 | Ceiling flush-mounted speakers | None | 1 x 27 mm Stub C through wall above ceiling | Open End Conduit stub, above rack location | AV Closet 0270 | No | No |



| | | | | | | | |
|----|----------------------------------|--|--|--|---|---------------------------|---------------------------------------|
| 6 | Wall mounted loudspeakers - LEFT | Single gang Mounted behind speaker, approximately 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub C Starting at ceiling bulkhead to AV Closet 0270 | No | No |
| 7 | Wall mounted loudspeaker - RIGHT | Single gang Mounted behind speaker, approximately 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub C Starting at ceiling bulkhead to AV Closet 0270 | No | No |
| 8 | Not used | | | | | | |
| 9 | IR Transceiver 1 - 4 | 102x102x50 box | 1 x 27mm Stub D through wall above ceiling | Open End Conduit, above audio rack | AV Closet 0267 | No | No |
| 10 | Crestron panel at door | FSR WB-X3-PLT Locking Cover Back Box 1524 mm A.F.F. | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to AV Closet 0270 | No | No |
| 11 | Cable TV IR Control | Single gang box flush with bulkhead ceiling centered between screens 600 mm from glass | 1 x 21 mm | Open End Conduit at edge of ceiling tile | Then to 27 mm Stub E Starting at ceiling bulkhead to AV Closet 0270 | No | No |
| 12 | Wireless Mic Receiver Antenna 1 | Single gang 225 mm left of center above AV Closet 2438 mm A.F.F. | 1 x 21mm | Open End Conduit, above rack location | AV Closet 0270 | No | No |
| 13 | Wireless Mic Receiver Antenna 2 | Single gang 225 mm left of center above AV Closet 2438 mm A.F.F. | 1 x 21 mm | Open End Conduit, above rack location | AV Closet 0270 | No | No |
| 14 | Not used | | | | | | |
| 15 | Table Floor Box 1 | Floor Box 1* FSR FL-500P-8 (installed) | 1 x 27 mm (installed) | Open End Conduit, above rack location | AV Closet 0270 | Yes (1 duplex receptacle) | Data connection and routing by others |
| 16 | Table Floor Box 2 | Floor Box 2* FSR FL-500P-8 (installed) | 1 x 27 mm (installed) | Open End Conduit, above rack location | AV Closet 0270 | Yes (1 duplex receptacle) | Data connection and routing by others |
| 17 | Podium Wall Box | single gang adjacent to other electrical boxes 460 mm A.F.F. | 1 x 21 mm | Open End Conduit, above rack | AV Closet 0270 | Yes (1 duplex receptacle) | Data connection and routing by others |



0272 Business Office

| No. | Start Point | | | End Point | | Start Power/Network | |
|-----|-----------------------|-------------------------------|-----------|---------------------------------------|--------------------|------------------------------|---------------------|
| | Conduit From: | AV Label / Box / termination: | Conduit | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | AV Monitoring Station | double gang 457 mm A.F.F. | 1 x 27 mm | Open End Conduit, above video rack | Tech Booth 0254 | Yes (1 duplex receptacle) | No |
| 2 | AV Monitoring Station | double gang 457 mm A.F.F. | 1 x 27 mm | Open End Conduit, above rack | AV Closet 0267 | Yes (1 duplex receptacle) | No |

0273 Telepresence Room

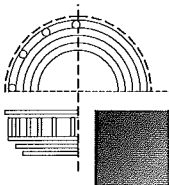
| No. | Start Point | | | End Point | | Start Power/Network | |
|-----|------------------------|-------------------------------|-----------|---------------------------------|--------------------|------------------------------|---------------------|
| | Conduit From: | AV Label / Box / termination: | Conduit | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | Telepresence Room 0273 | Single gang 457 mm A.F.F. | 1 x 27 mm | Open End Conduit, above rack | Tech Booth 0254 | Yes (1 duplex receptacle) | No |

0255 Interpretation Booth

| No. | Start Point | | | End Point | | Start Power/Network | |
|-----|----------------------|-------------------------------|--------------------------------------|---------------------------------|--------------------|---------------------|---------------------|
| | Conduit From: | AV Label / Box / termination: | Conduit | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | Interpretation Booth | None | 1 x 21 mm stub under raised floor | Open End Conduit, above rack | Tech Booth 0254 | No | No |
| 2 | Interpretation Booth | None | 1 x 21 mm stub under raised floor | Open End Conduit, above rack | Tech Booth 0254 | No | No |

Conduit between AV Closets 0267 & 0270 & Tech Booth 0254

| No. | Start Point | | | End Point | | Start Power/Network | |
|----------|-------------------|------------------------------------|-----------|---------------------------------------|--------------------|---------------------|---------------------|
| | Conduit From: | AV Label / Box / termination: | Conduit | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 REV | AV Closet 0267 | Open End Conduit, above rack | 1 x 41 mm | Open End Conduit, above video rack | Tech Booth 0254 | No | No |
| 2 | AV Closet 0270 | Open End Conduit, above rack | 1 x 41 mm | Open End Conduit, above video rack | Tech Booth 0254 | No | No |
| 3 REV | AV Closet 0270 | Open End Conduit, above rack | 3 x 27 mm | Open End Conduit, above rack | AV Closet 0267 | No | No |

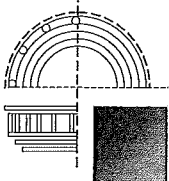


Conduit for Lighting Control

| No. | Start Point | | Conduit | End Point | | Start Power/Network | |
|-----|--------------------------|--|---------|---|-----------------|---------------------|---------------------|
| | Conduit From: | AV Label / Box / termination: | | AV Label / Box / termination: | Conduit To: | Power Needed | Data/Network Needed |
| 1 | Lighting RS232 interface | Choice and location by electrical engineer | 21 mm | Open End Conduit, above Video rack location | Tech Booth 0254 | No | No |
| 2 | Lighting RS232 interface | Choice and location by electrical engineer | 21 mm | Open End Conduit, above rack location | AV Closet 0267 | No | No |
| 3 | Lighting RS232 interface | Choice and location by electrical engineer | 21 mm | Open End Conduit, above rack location | AV Closet 0267 | No | No |

NOTES:

1. All boxes and conduit sizes are in millimeters.
2. Asterisk (*) implies that Power, Data & AV can share the floorbox, but run in separate conduit.
3. Electrical Engineer to specify conduits, back boxes, baskets, gaskets, door/cover & power/network connection plates. AV integrator to supply connectors and connector plate inserts for AV connections.
4. Any conduit paths shown in the existing plans are not included below (example: conduit between electric projection screens and wall switch)
5. Power is required at all LCD TVs. Outlets should be concealed behind TV.
6. Where indicated, power is required in or beside the AV box. Unless otherwise stated, required power is 120 V AC.
7. All gang boxes are to be 75mm (3") deep.
8. Where two conduits enter the floor AV backbox, one conduit should be located on each side of the box behind the connectors.
9. All open-ended conduits should have plastic bushings to prevent from cutting the cables. The bushings should be installed in such a way that would prevent them from falling.
10. Lighting control is required via the AV touchpanel. The AV control system will connect via RS232 to lighting system. Crestron dimmers or similar interface required by Electrical and is shown in the electrical drawings.
11. All cables in dropped tile ceiling are not in conduit and are required to be plenum rated. A ring of J hooks are to be installed by the AV Installer in the ceiling tile area with their own suspension system. Do not use ceiling tile grid suspension system or any others.
12. Conduit must be run in ceiling bulkhead and center CLARO panel ceiling since cables will not be accessible in these areas for installation.
13. All racks require power, isolated ground preferred. 4 duplex receptacles should be provided at the rack location.
14. Ethernet hook-up must be provided at each rack.



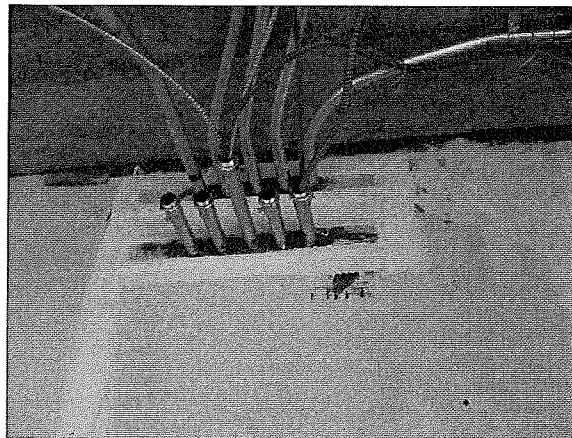
15. CATV hook-up should be provided for the Tech Booth 0254 and AV Closets 0267 and 0270.
16. NEW Client is to decide if any equipment is required to be on emergency power and/or UPS power.
17. NEW Provide separate electrical panels for all AV equipment. Do not use building utility power panels to power AV equipment.
18. NEW Provide separate transformer for all AV equipment, and balance load.
19. NEW Provide isolated ground outlets for all AV equipment and ground at panel with a technical ground bus bar isolated from panel box and ground at disconnect. Technical ground is to be isolated and separate from building ground except at source (transformer). Do not loop or chain ground.
20. NEW Electrical engineer to specify pull boxes where required.

NEMA designation of power receptacles:

- 15 Amp Twist Lock: L5-15R
- 20 Amp Twist Lock: L5-15R
- 15 Amp Straight Blade: 5-15R
- 20 Amp Straight Blade: 5-20R

Recommended Installation method for Conduit Stubs:

In order to not compromise the sound isolation of the wall we recommend the following installation method which was used in La Promenade Office Buildings which required high STC walls. Space conduit stubs a minimum of 50 mm apart and caulk around each conduit stub to seal it. Caulking is to be red fire-rated caulking.



Should you have any questions about this report please do not hesitate to contact us.

Sincerely,
 Jessica Friesen, B.Sc
 Consultant

