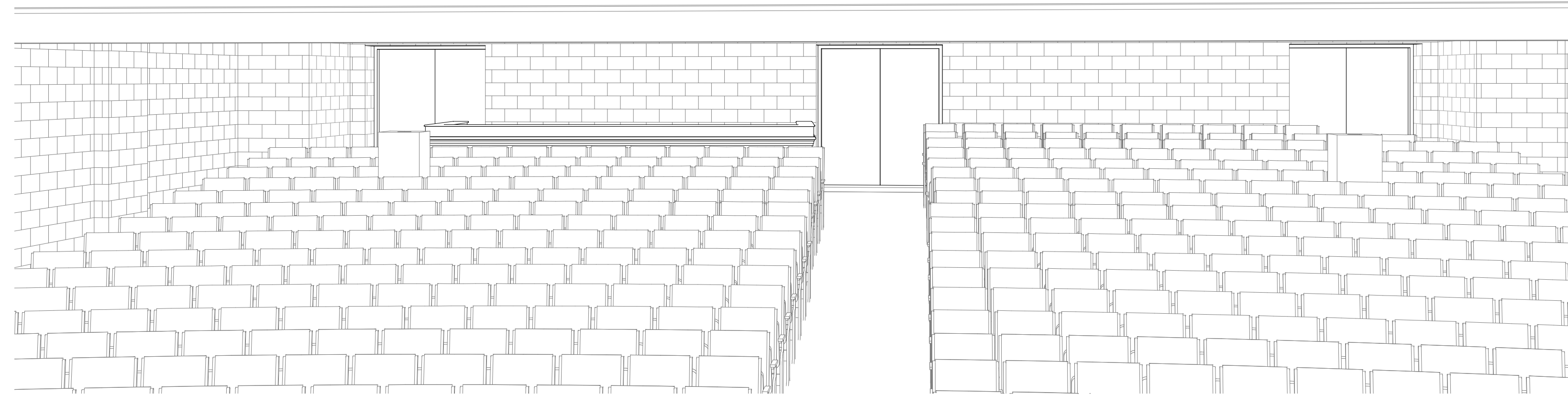
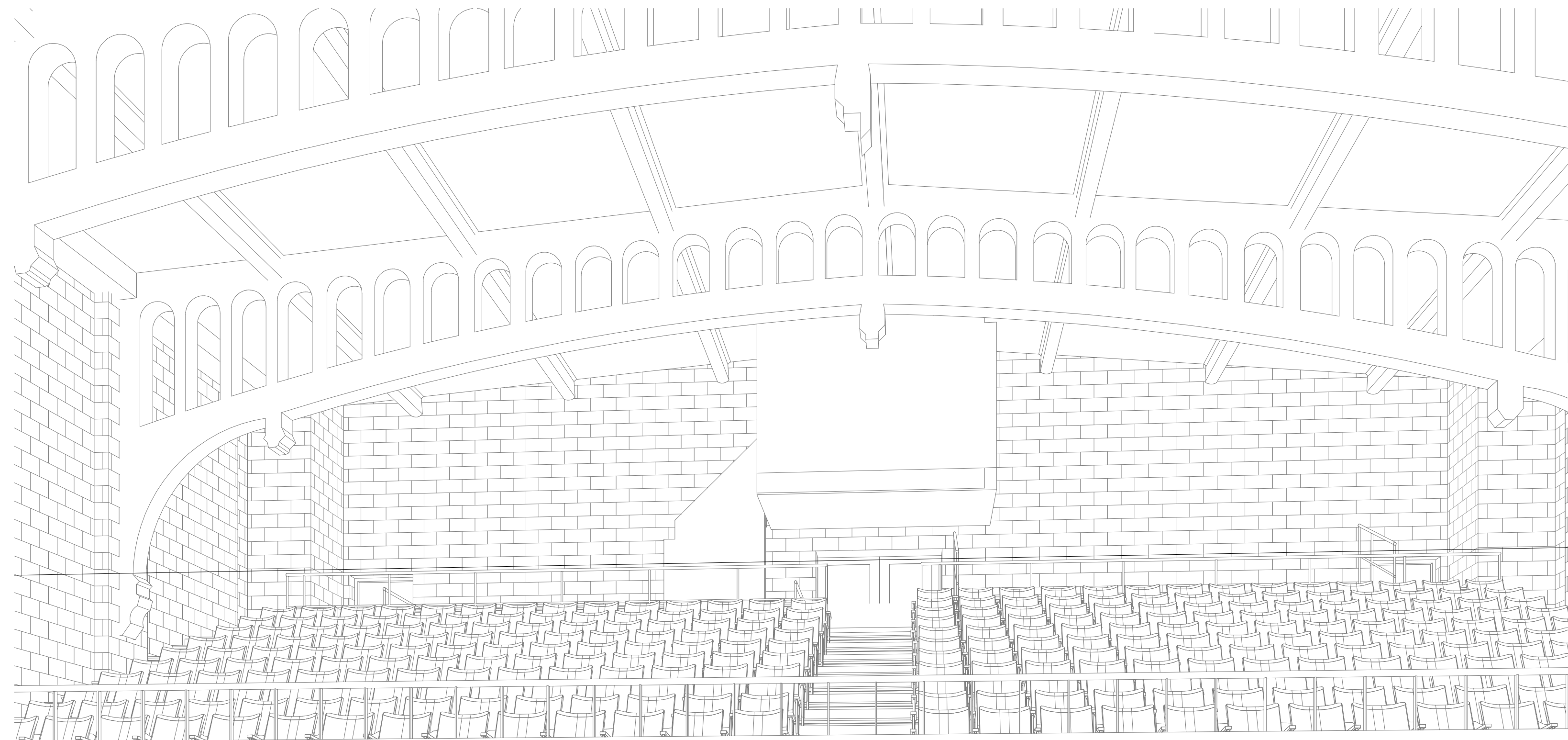


NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL

GRAND RAPIDS PUBLIC SCHOOLS

421 Fountain St NE, Grand Rapids, MI 49503



OWNER



ARCHITECT



MEP



Classic Engineering, LLC

AUDIO VISUAL



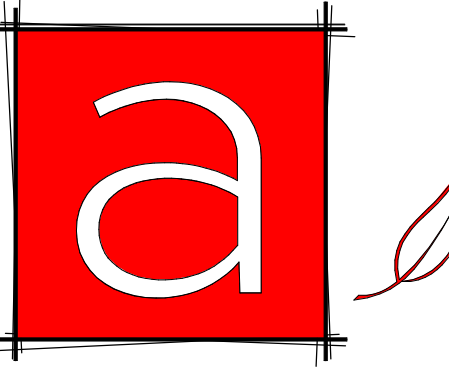
DRAWING INDEX

| | |
|---------------|--|
| GENERAL | |
| T-1 | TITLE DRAWING |
| G-1 | CODE COMPLIANCE PLANS |
| ARCHITECTURAL | |
| A-0 | DEMOLITION PLANS |
| A-1 | FLOOR PLANS, SCHEDULES, DETAILS, AND NOTES |
| A-2 | REFLECTED CEILING PLANS |
| MECHANICAL | |
| M-1 | FLOOR PLANS - MECHANICAL |
| ELECTRICAL | |
| ELP-1 | FLOOR PLANS - DEMOLITION |
| EL-1 | FLOOR PLANS - LIGHTING |
| EL-2 | FLOOR PLANS - LIGHTING |
| EL-3 | FLOOR PLANS - LIGHTING |
| EP-1 | FLOOR PLANS - POWER |
| EP-2 | FLOOR PLANS - POWER |
| E1.00 | DETAILS, SYMBOL LEGEND, SPECIFICATIONS |
| E2.00 | ONE-LINE DIAGRAM |
| E3.00 | SCHEDULES |

CODE SUMMARY

SCOPE OF WORK:
 REPLACE EXISTING AUDITORIUM ENTRY DOORS,
 CREATE NEW SOUND BOOTH ENCLOSURE,
 REPLACE EXISTING HOUSE LIGHTS

- A. APPLICABLE CODES:
- BUILDING CODES:
 - MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS (MRCEB) 2015
 - MICHIGAN BUILDING CODE (MBC) 2015
 - MICHIGAN BARRIER FREE DESIGN LAW P.A. 1 OF 1966 AND 2009 ICC/ANSI A117.1
 - MECHANICAL CODES:
 - MICHIGAN MECHANICAL CODE 2021
 - MICHIGAN PLUMBING CODE (MPC) 2021
 - ELECTRICAL CODE:
 - MICHIGAN ELECTRICAL CODE 2023
 - EXISTING AND/OR PROPOSED BUILDING DATA:
 - USE: SCHOOL BUILDING, USE GROUP E (MBC 304.1) - NO CHANGE TO EXISTING USE
 - CONSTRUCTION: TYPE 3B (MBC 602.2) - EXISTING TO REMAIN
 - CLASSIFICATION OF WORK: ALTERATION - LEVEL 2 (MRCEB 504.1)
 - BUILDING AREA: NO CHANGE TO EXISTING AREA OR HEIGHT
 - EXISTING FLOOR AREA: APPROXIMATELY 90,000 SF FIRST FLOOR
 - WORK AREA: 8,500 SF
 - CALCULATED PERCENTAGE: 9%
 - AUTOMATIC FIRE SUPPRESSION:
 - FACILITY FULLY SPRINKLERED (MBC 903.3.1.1)
 - FIRE EXTINGUISHERS: REQUIRED (MBC 906.1, NO. 1)
 - OCCUPANT LOAD FOR EGRESS PURPOSES (MBC T-1004.1.2):
 - USE AND OCCUPANCY: EXISTING SINGLE-OCCUPANT FACILITY (NO CHANGE)
 - EDUCATIONAL: OCCUPANT LOAD: (NO CHANGE)
 - MEANS OF EGRESS REQUIREMENTS (MRCEB 805):
 - NON-APPLICABLE FOR SINGLE-OCCUPANCY, SINGLE-TENANT STRUCTURE.
 - MAX DEAD END CORRIDOR: 50 FT. (MRCEB 805.6; MBC 1020.4, EX.2)
 - ACCESSIBILITY (MRCEB 806):
 - SCOPE OF ALTERATION SHALL NOT REDUCE THE ACCESSIBILITY OF THE EXISTING FACILITY (MRCEB 410.3)
 - ALL WORK IN ALTERED AREA(S) SHALL MEET STATE ACCESSIBILITY REQUIREMENTS TO THE MAXIMUM AMOUNT FEASIBLE (MRCEB 410.6)
 - ALTERATION OF AREA(S) CONTAINING PRIMARY FUNCTION:
 - ACCESSIBLE ROUTE TO PRIMARY FUNCTION SHALL BE PROVIDED
 - ACCESSIBLE ROUTE FROM PRIMARY FUNCTION TO TOILET FACILITIES AND DRINKING FOUNTAINS SHALL BE PROVIDED.
 - PLUMBING FIXTURE REQUIREMENTS (MPC T-403.1):
 - INCREASE IN FLOOR OCCUPANCY LOAD < 20% - EXISTING FIXTURES TO REMAIN (MRCEB 810.1)



architektura PLC
 PO Box 971
 Grand Haven, MI 49417
 p: 616.843.1002
 www.architekturapl.com



NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
 421 Fountain St NE, Grand Rapids, MI 49503

PROJECT NO. 1328
 ISSUANCES

| | |
|-------------|------------------|
| 20 DEC 2024 | BIDS AND PERMITS |
|-------------|------------------|

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

TITLE DRAWING

SCALE: As indicated

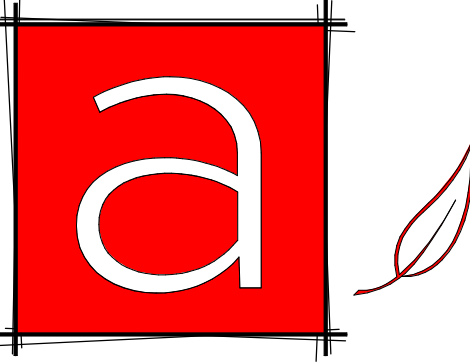
T-1

PREPARER NOTES:

ARCHITECTURA PLC'S LIABILITY IS LIMITED TO THE AMOUNT OF FEE THAT IS REBURSED FOR SERVICES RENDERED ON THIS PROJECT.
 THESE DRAWINGS ARE THE SOLE PROPERTY OF ARCHITECTURA PLC AND ARE NOT TO BE USED OR REPRODUCED WITHOUT THEIR WRITTEN CONSENT.
 THIS SEAL APPLIES TO THE FOLLOWING DOCUMENTS SHEET NUMBERS: T1 THRU T4. ALL DOCUMENTS UNDER THIS STAMP BEAR THE SAME ISSUE DATE AS THE SEALED COPY.
 I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER MY PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, CONFORM TO THE APPLICABLE CODES AND ORDINANCES.
 KIRSTEN A. RUNSCHKE DATE 09-27-2025
 LICENSE EXPIRES



12/18/2024 4:52:23 PM
 C:\Users\krunschke\OneDrive\Documents\architektura PLC\Projects\1328_GRPS - Auditorium Sound Booth\Rev\Auditorium\03.1.rvt
 THIS DOCUMENT HAS BEEN PREPARED BY ARCHITECTURA PLC AS AN INSTRUMENT OF SERVICE AND ARCHITECTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN.



architektura ^{PLC}
 PO Box 971
 Grand Haven, MI 49417
 p: 616.843.1002
www.architekturapl.com



NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS

421 Fountain St NE, Grand Rapids, MI 49503

PROJECT NO. 1328
 ISSUANCES

| | |
|-------------|------------------|
| 20 DEC 2024 | BIDS AND PERMITS |
|-------------|------------------|

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

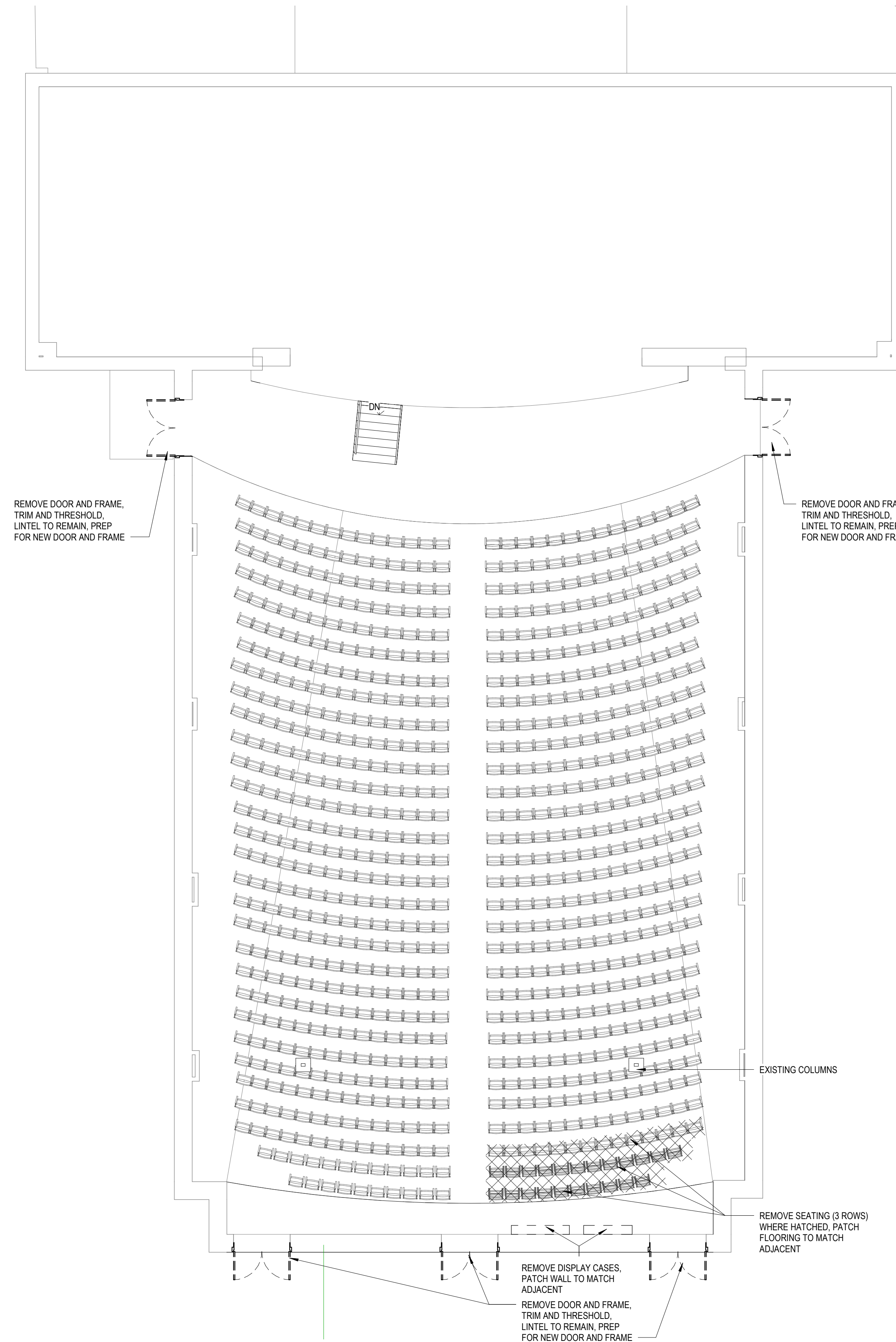
DEMOLITION PLANS

SCALE :
 As indicated

A-0

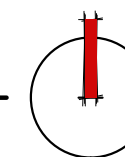
DEMOLITION NOTES

- EXISTING BUILDING CONDITION BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
- BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
- COORDINATE DEMOLITION WITH ALL CONTRACTORS WORKING IN AREAS BEING RENOVATED.
- DURING DEMOLITION, PROTECT ALL ADJACENT CONSTRUCTION TO REMAIN.
- ANY ASBESTOS CONTAINING MATERIALS THAT ARE ENCOUNTERED ARE TO BE REMOVED BY THE OWNER.
- REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND COMMUNICATION DRAWINGS FOR ITEMS TO BE REMOVED NOT SHOWN HERE.
- COORDINATE THE RETURN AND STORAGE OF ALL ITEMS DESIGNATED AS SALVAGE WITH OWNER.
- PROVIDE TEMPORARY SHORING AND/OR STAGING OF THE DEMOLITION WORK.
- MANY OF THE MASONRY WALLS OF THIS BUILDING ARE LOAD-BEARING. COORDINATE DEMOLITION OF ALL WALLS OR PORTIONS OF WALLS FOR NEW OPENINGS WITH STRUCTURAL DOCUMENTS AND EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR SHORING ALL STRUCTURE SUPPORTED BY BEARING WALLS PRIOR TO REMOVAL.



FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"



12/18/2024 4:50:24 PM
 C:\Users\kral\OneDrive\Documents\architektura\PLC\Projects\1328_GRPS - Auditorium Sound Booth\Rev\Auditorium V3.1.rvt
 THIS DOCUMENT HAS BEEN PREPARED BY ARCHITEKTURA PLC AS AN INSTRUMENT OF SERVICE AND ARCHITEKTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT HEREIN.

DOOR SCHEDULE

| Mark | DOOR | | | FRAME | | | | NOTES | |
|--------------|-------|--------|------|----------|------|----------|--------|-------|-------------------------------|
| | WIDTH | HEIGHT | TYPE | MATERIAL | TYPE | MATERIAL | RATING | | HDW |
| GROUND FLOOR | | | | | | | | | |
| 105 | 6'-4" | 8'-0" | F | WD | DBL | WD | 0 | 01 | FIELD VERIFY EXISTING OPENING |
| 106 | 6'-4" | 8'-0" | F | WD | DBL | WD | 0 | 01 | FIELD VERIFY EXISTING OPENING |
| FIRST FLOOR | | | | | | | | | |
| 102 | 6'-4" | 8'-0" | F | WD | DBL | WD | 0 | 02 | FIELD VERIFY EXISTING OPENING |
| 103 | 6'-4" | 8'-0" | F | WD | DBL | WD | 0 | 01 | FIELD VERIFY EXISTING OPENING |
| 104 | 6'-4" | 8'-0" | F | WD | DBL | WD | 0 | 02 | FIELD VERIFY EXISTING OPENING |

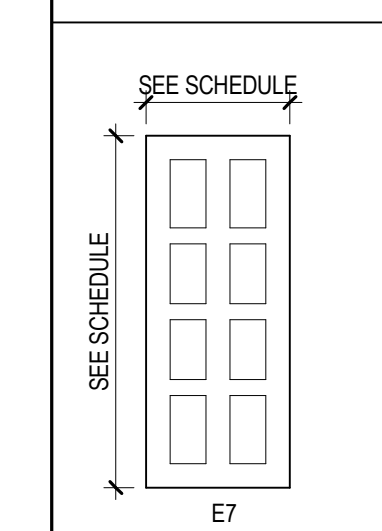
GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- EXISTING BUILDING CONDITIONS BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
- BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
- REFER TO CODE COMPLIANCE DRAWING(S) FOR LOCATIONS OF RATED ASSEMBLIES AND CODE SUMMARY.
- WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF STUDS, COLUMN CENTERLINE AS SHOWN OR EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE PERPENDICULAR AND PARALLEL, UNLESS NOTED OTHERWISE.
- REFER TO ALL DRAWINGS SHOWING NEW CONSTRUCTION AND COORDINATE DEMOLITION REQUIRED TO COMPLETE NEW WORK SHOWN.
- REFER TO DEMOLITION DRAWINGS AND OTHER DRAWINGS TO DETERMINE LOCATIONS THAT REQUIRE PATCHING DUE TO REMOVAL OF EXISTING ITEMS, INCLUDING MECHANICAL, PLUMBING AND ELECTRICAL ITEMS.
- PATCH ALL DISTURBED EXISTING SURFACES WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACE CONSTRUCTION.
- REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR SIZE AND LOCATION OF CHASES, WALL AND FLOOR OPENINGS AND RECESSES, ETC. COORDINATE WITH CONSTRUCTION MANAGER / GENERAL CONTRACTOR AND ALL AFFECTED TRADES.
- PROVIDE APPROVED SMOKE/FIRESTOPPING ASSEMBLIES AT ALL MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT PARTITIONS IDENTIFIED ON CODE COMPLIANCE DRAWINGS.

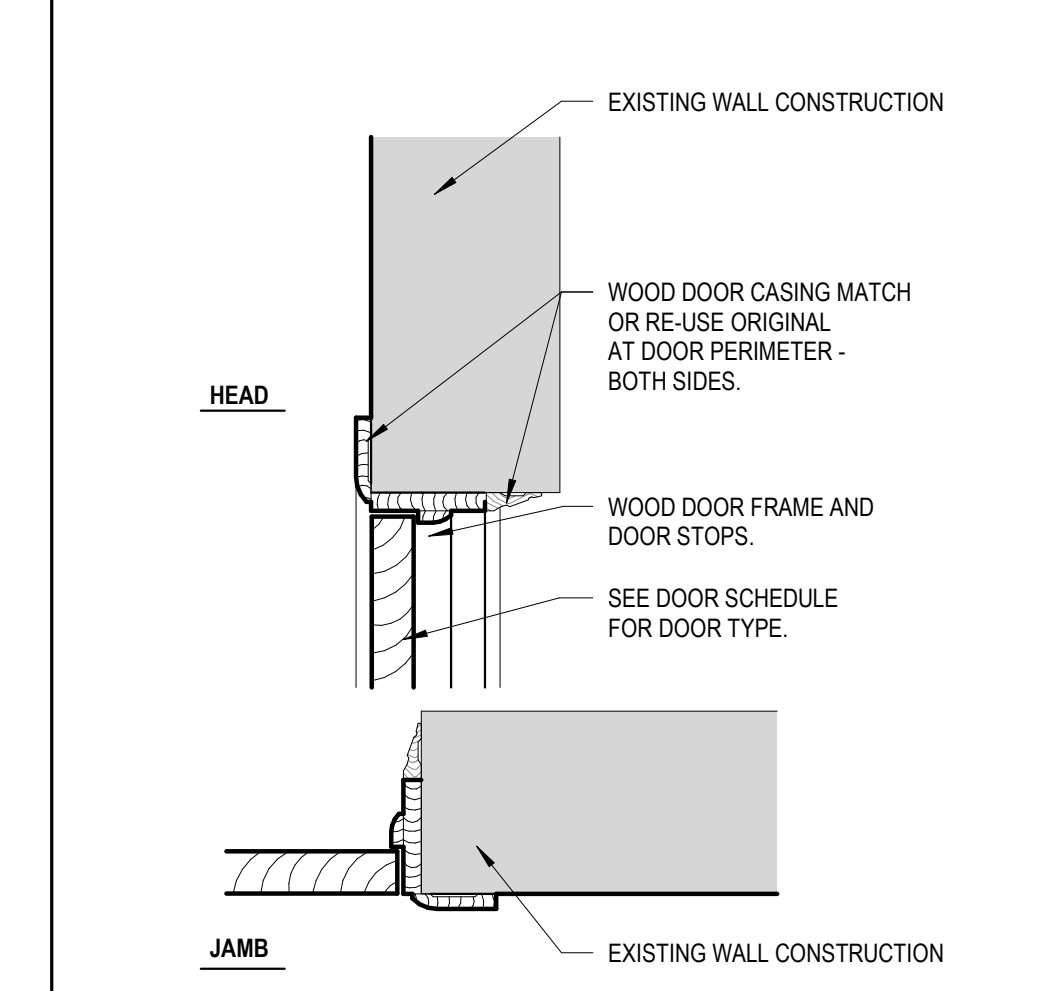
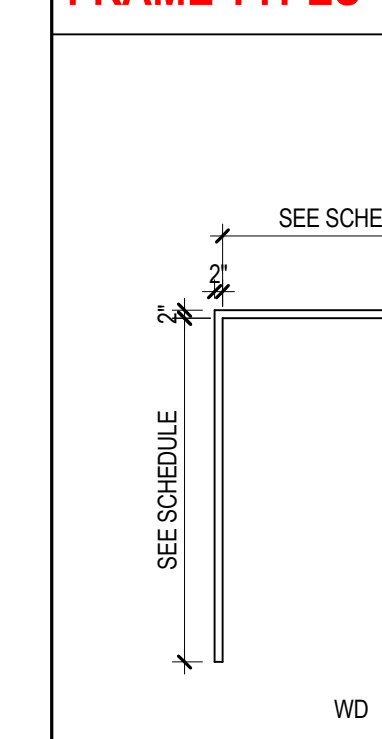
INTERIOR WALL GENERAL NOTES

- EXISTING WALL CONSTRUCTION — NEW WALL CONSTRUCTION
- CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
 - REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
 - PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
 - PERMANENTLY IDENTIFY FIRE RATED AND SMOKE RESISTANT PARTITIONS ON WALL ABOVE CEILINGS AT 30 FEET ON CENTER.
 - PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
 - REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
 - ALL WALLS ARE 6" METAL STUD FRAMING AT 16" O/C WITH 5/8" GYPSUM WALLBOARD EA SIDE. EXTEND TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE.

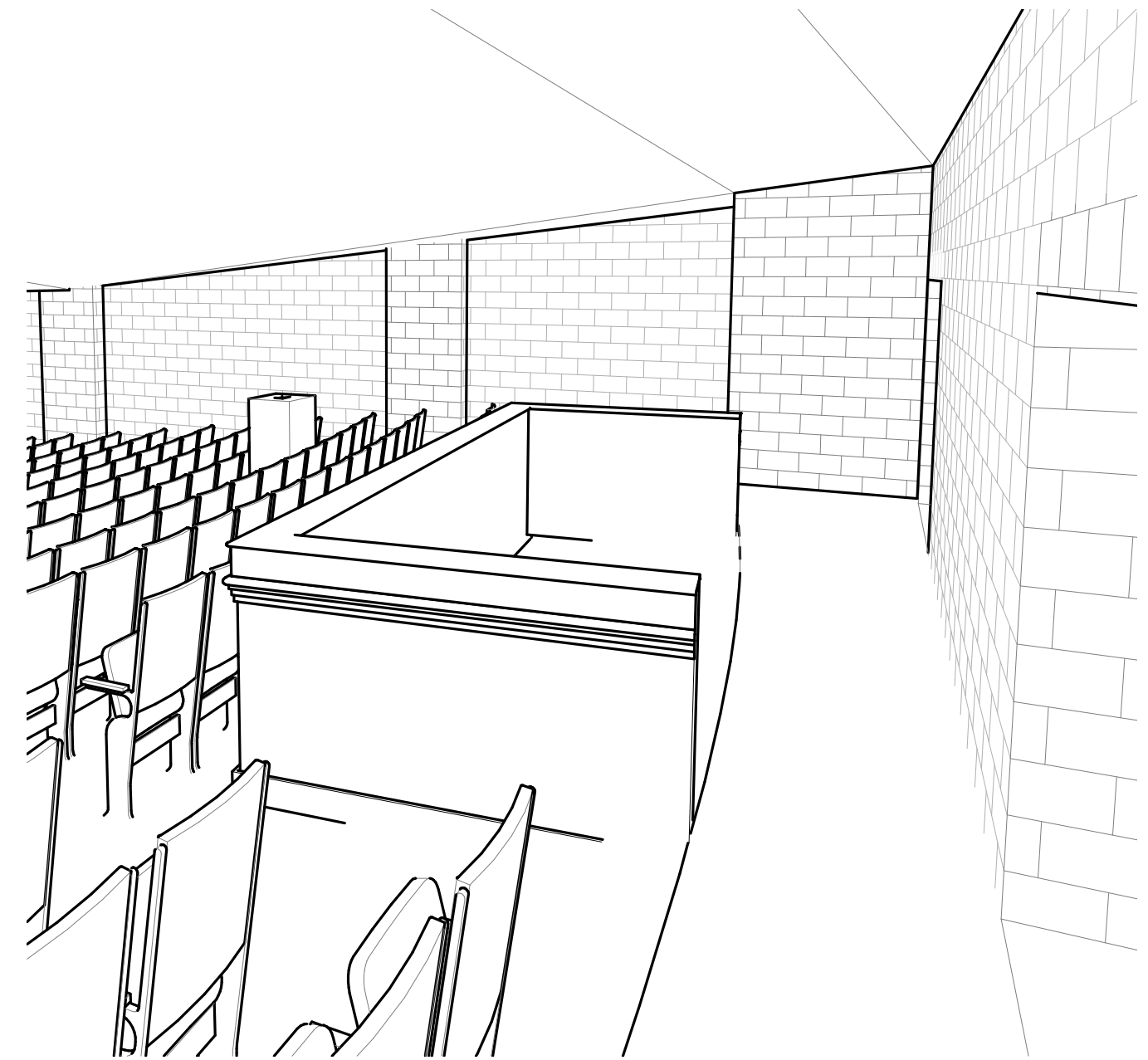
DOOR TYPES



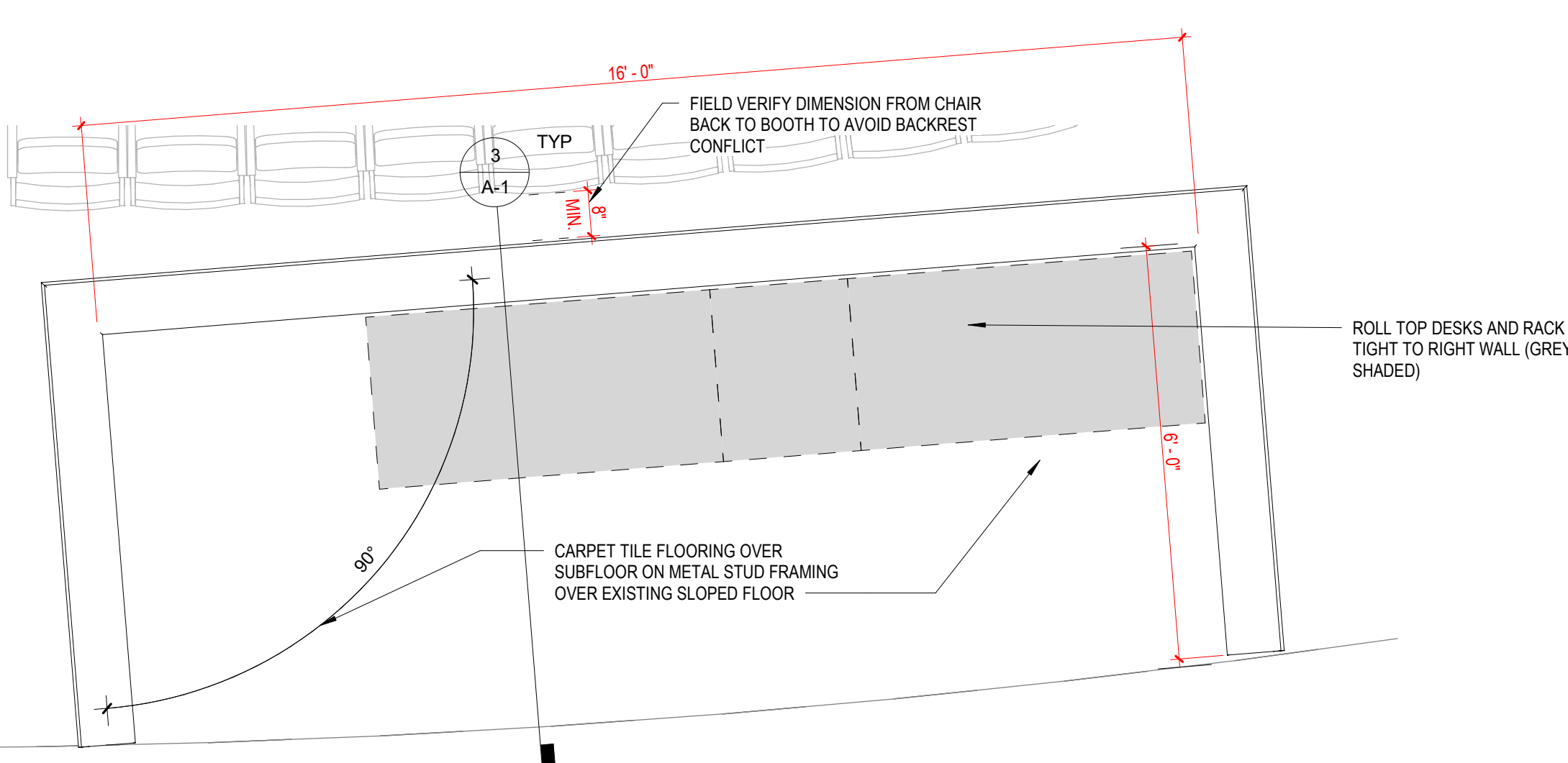
FRAME TYPES



④ TYP DOOR JAMB AND HEAD
1 1/2" = 1'-0"



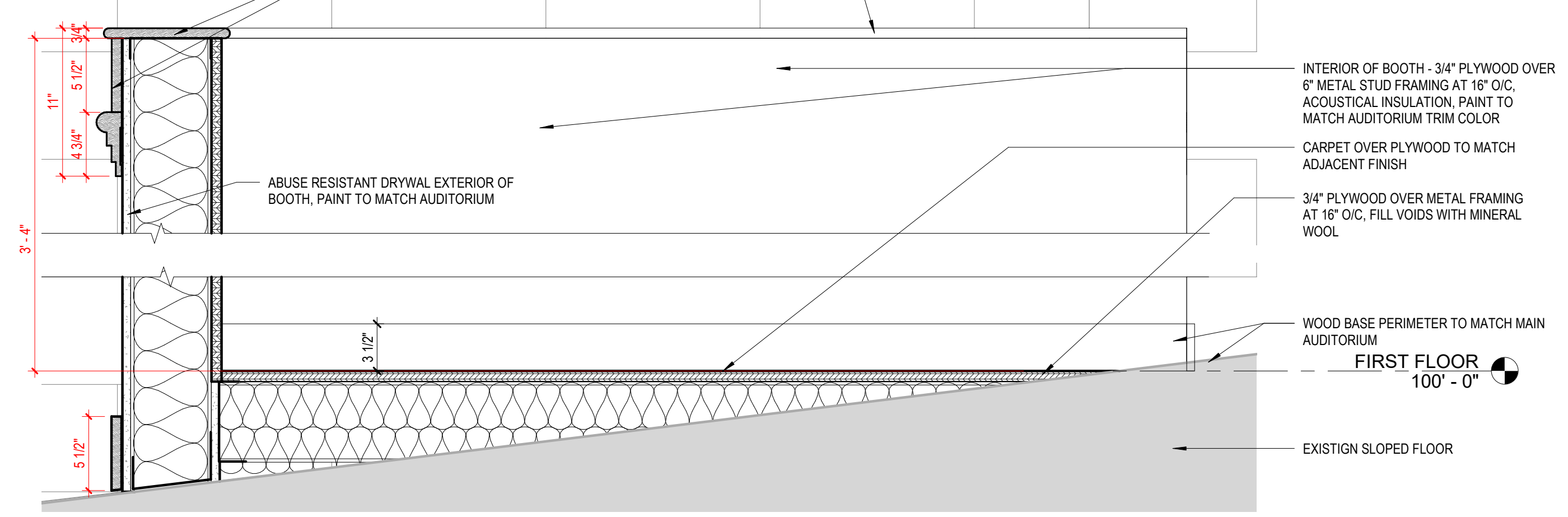
① SOUND BOOTH 1



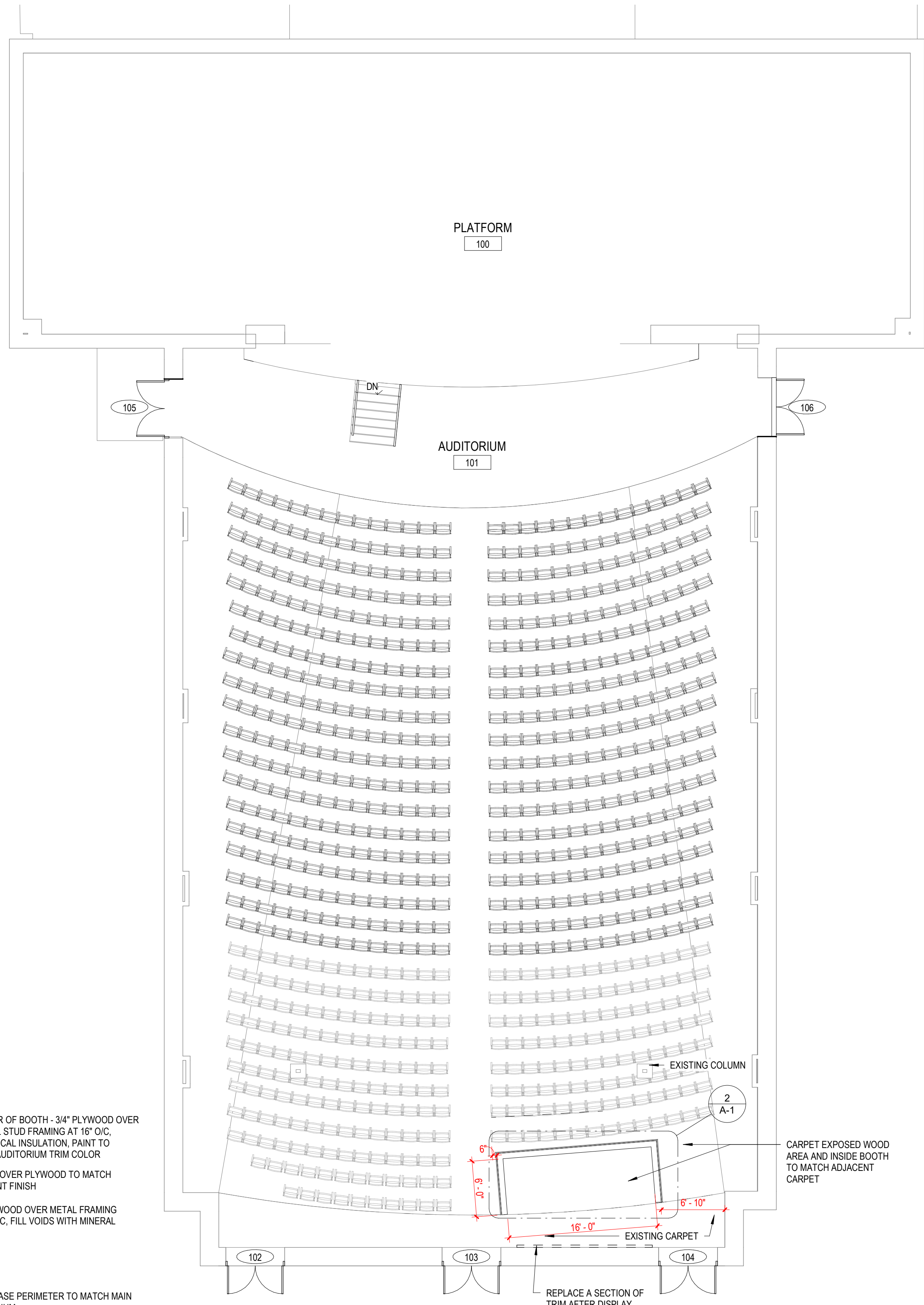
② SOUND BOOTH PLAN
1/2" = 1'-0"



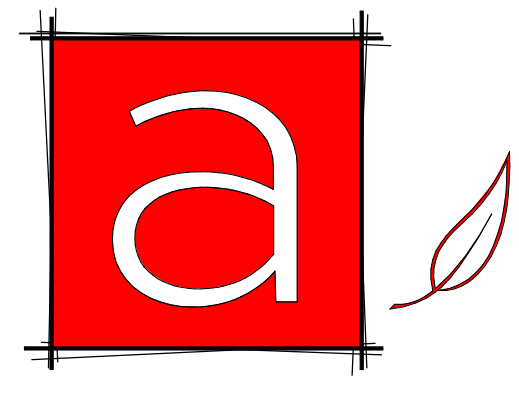
WOOD CAP AND TRIM TO MATCH AUDITORIUM DETAIL, PERIMETER OF BOOTH. PAINT TO MATCH EXISTING COLOR. FIELD VERIFY PROFILES



③ INT DTL - BOOTH TYP
1 1/2" = 1'-0"



FIRST FLOOR PLAN
1/8" = 1'-0"



architektura PLC
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com



NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
421 Fountain St NE, Grand Rapids, MI 49503

PROJECT NO. 1328
ISSUANCES
20 DEC 2024 BIDS AND PERMITS

REVISIONS

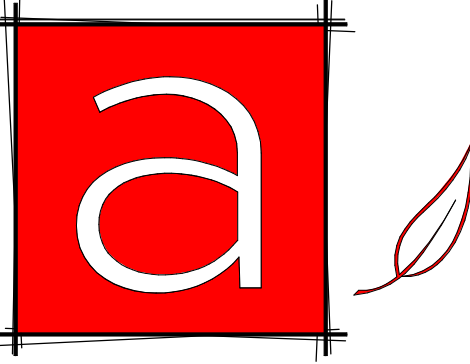
| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

FLOOR PLANS, SCHEDULES, DETAILS, AND NOTES

SCALE: As indicated

A-1

12/18/2024 4:51:37 PM C:\Users\khalid\OneDrive\Documents\architektura PLC\Projects\1328_GRPS - Auditorium Sound Booth\Rev\Auditorium V3.1.rvt
THIS DOCUMENT HAS BEEN PREPARED BY ARCHITECTURA PLC AS AN INSTRUMENT OF SERVICE AND ARCHITECTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERE TO



architektura^{PLC}
 PO Box 971
 Grand Haven, MI 49417
 p: 616.843.1002
www.architekturapl.com



NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
 421 Fountain St NE, Grand Rapids, MI 49503

PROJECT NO. 1328
 ISSUANCES

| | |
|-------------|------------------|
| 20 DEC 2024 | BIDS AND PERMITS |
|-------------|------------------|

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

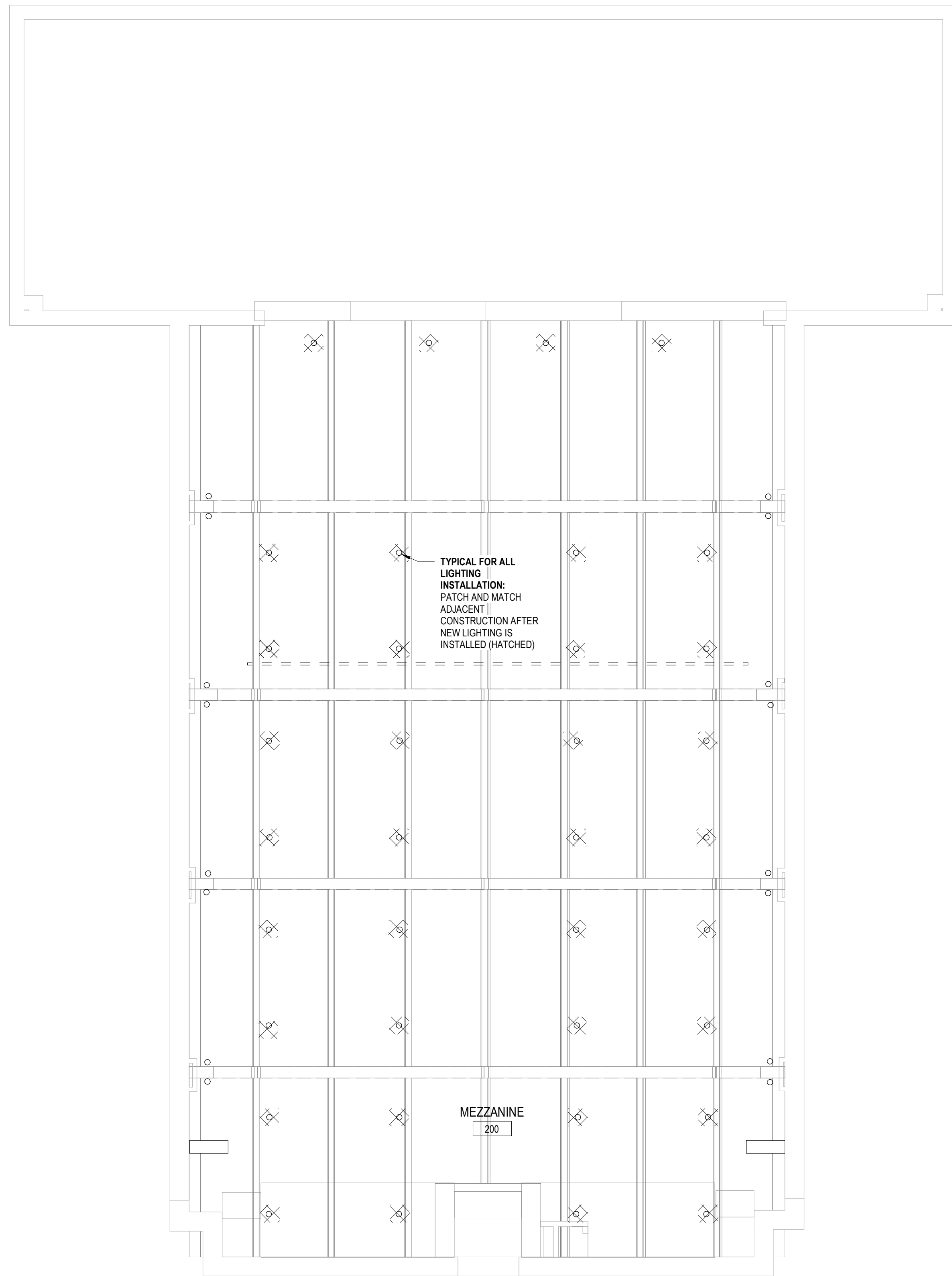
REFLECTED CEILING PLANS

SCALE :
 As indicated

A-2

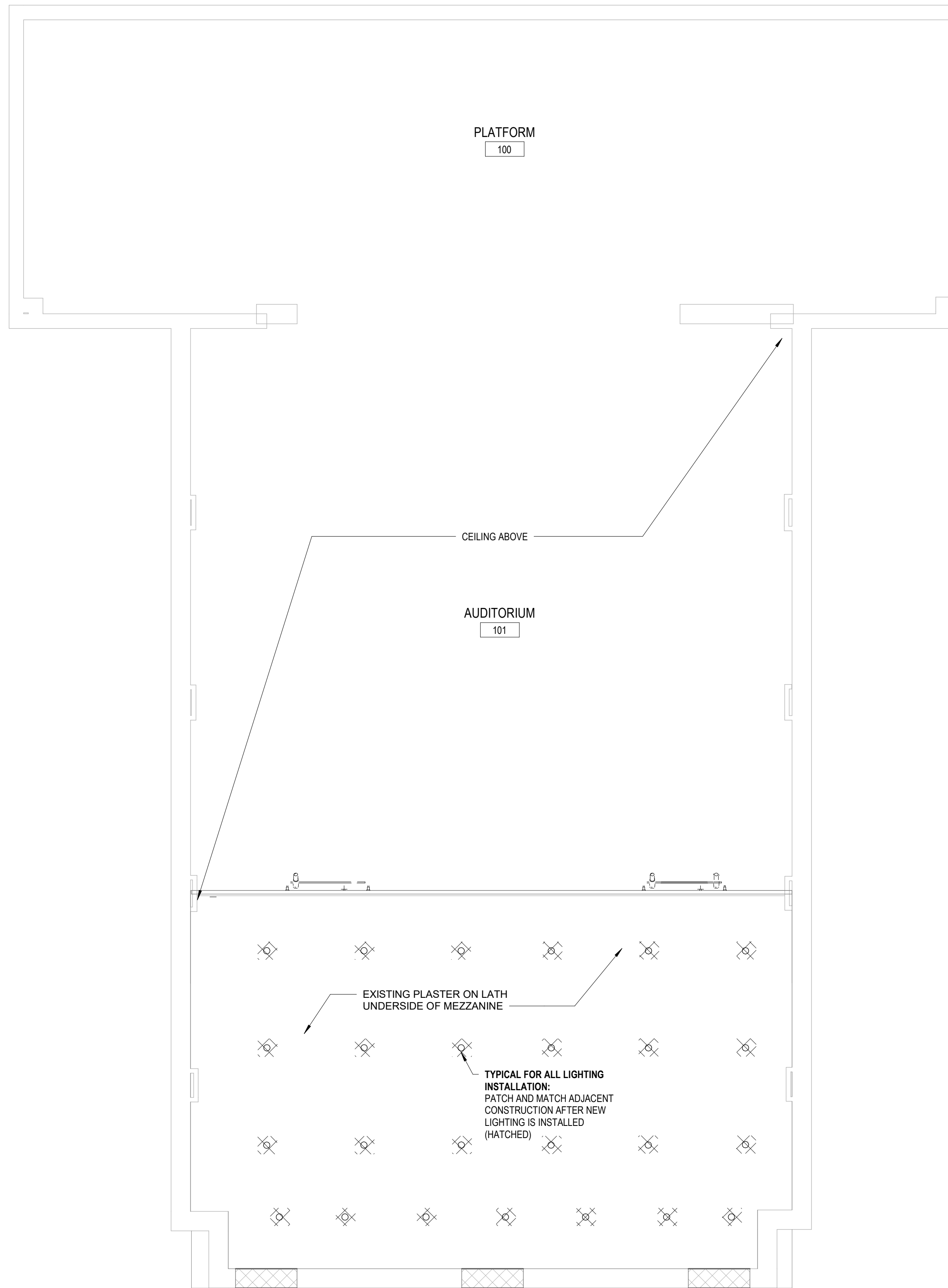
REFLECTED CEILING PLAN GENERAL NOTES

1. ALL LIGHT FIXTURES, SPRINKLER HEADS, RETURN AIR GRILLES AND SUPPLY AIR GRILLES ARE TO BE LOCATED IN THE CENTER OF THE CEILING PAD, UNLESS NOTED OTHERWISE.
2. FIRE PROTECTION CONTRACTOR TO COORDINATE LOCATIONS OF SPRINKLER HEADS WITH MECHANICAL AND ELECTRICAL CONTRACTOR. SEE NOTE ABOVE.
3. COORDINATE MECHANICAL, ELECTRICAL AND FIRE PROTECTION TO ASSURE PROPER CLEARANCES AND LAYOUT.
4. MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTORS TO PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE SIZE AND LOCATIONS OF ACCESS PANELS TO MINIMIZE QUANTITIES. CONTRACTOR IS REQUIRED TO PROVIDE LAYOUT TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE.



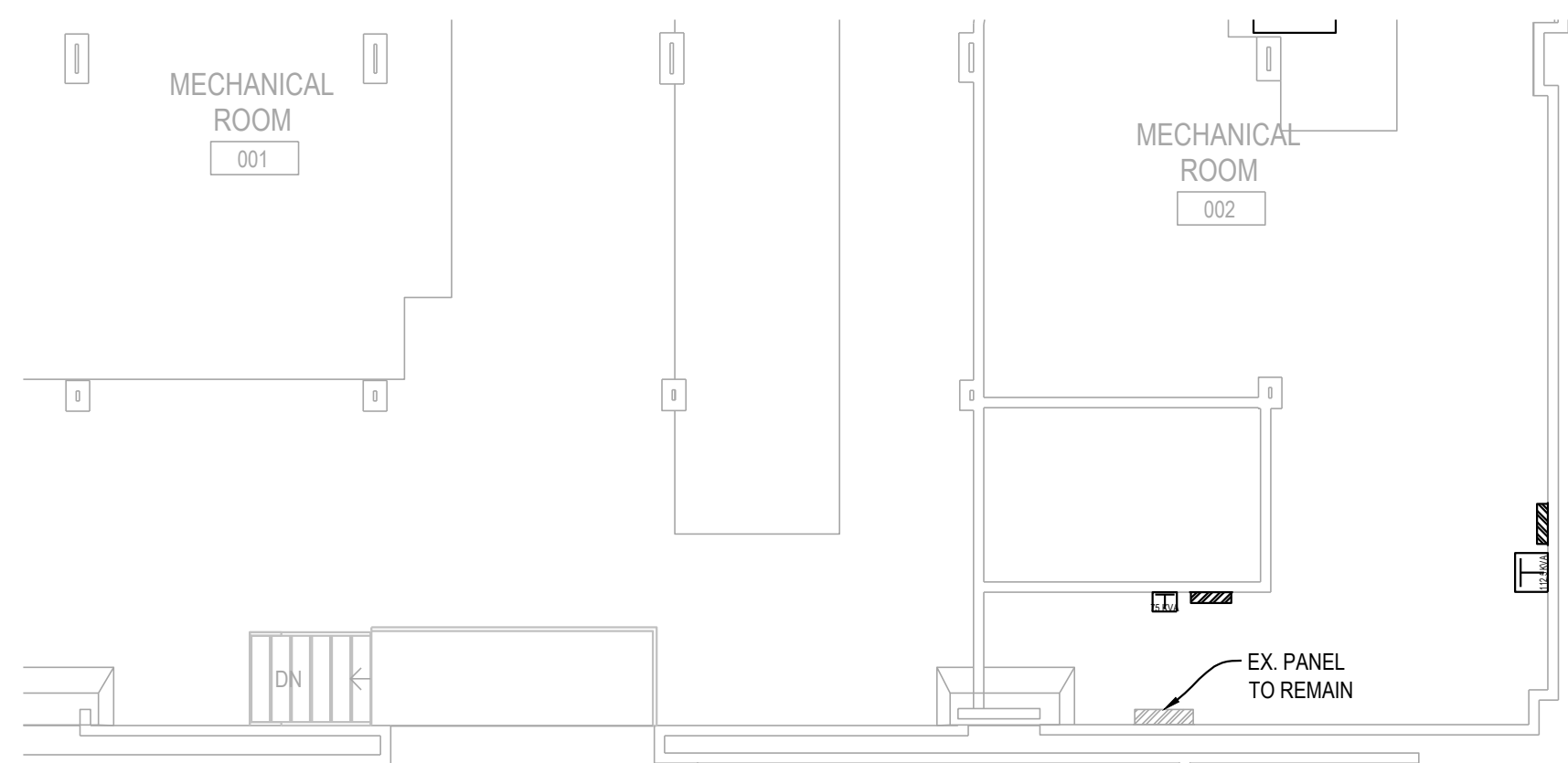
SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

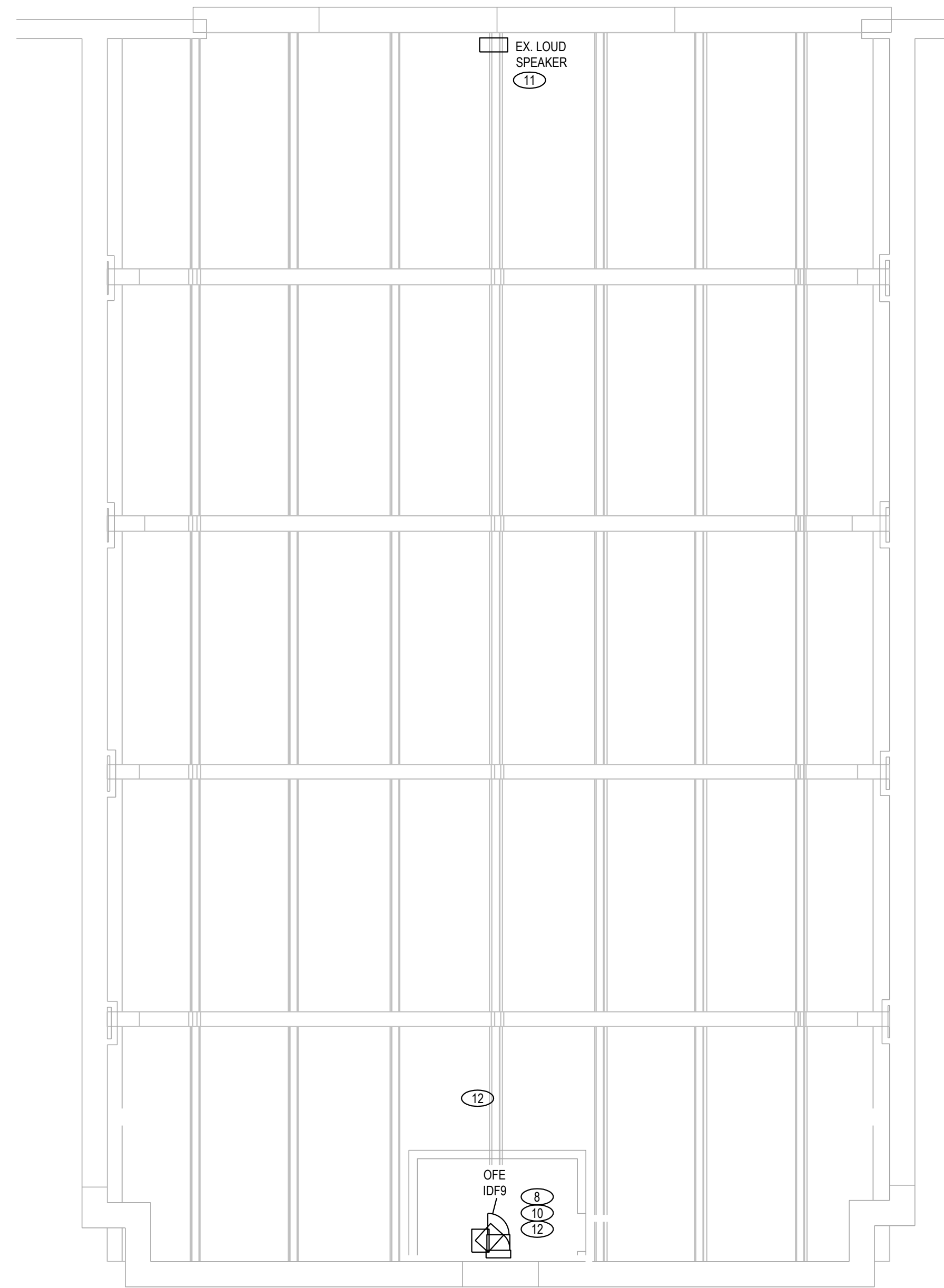


FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

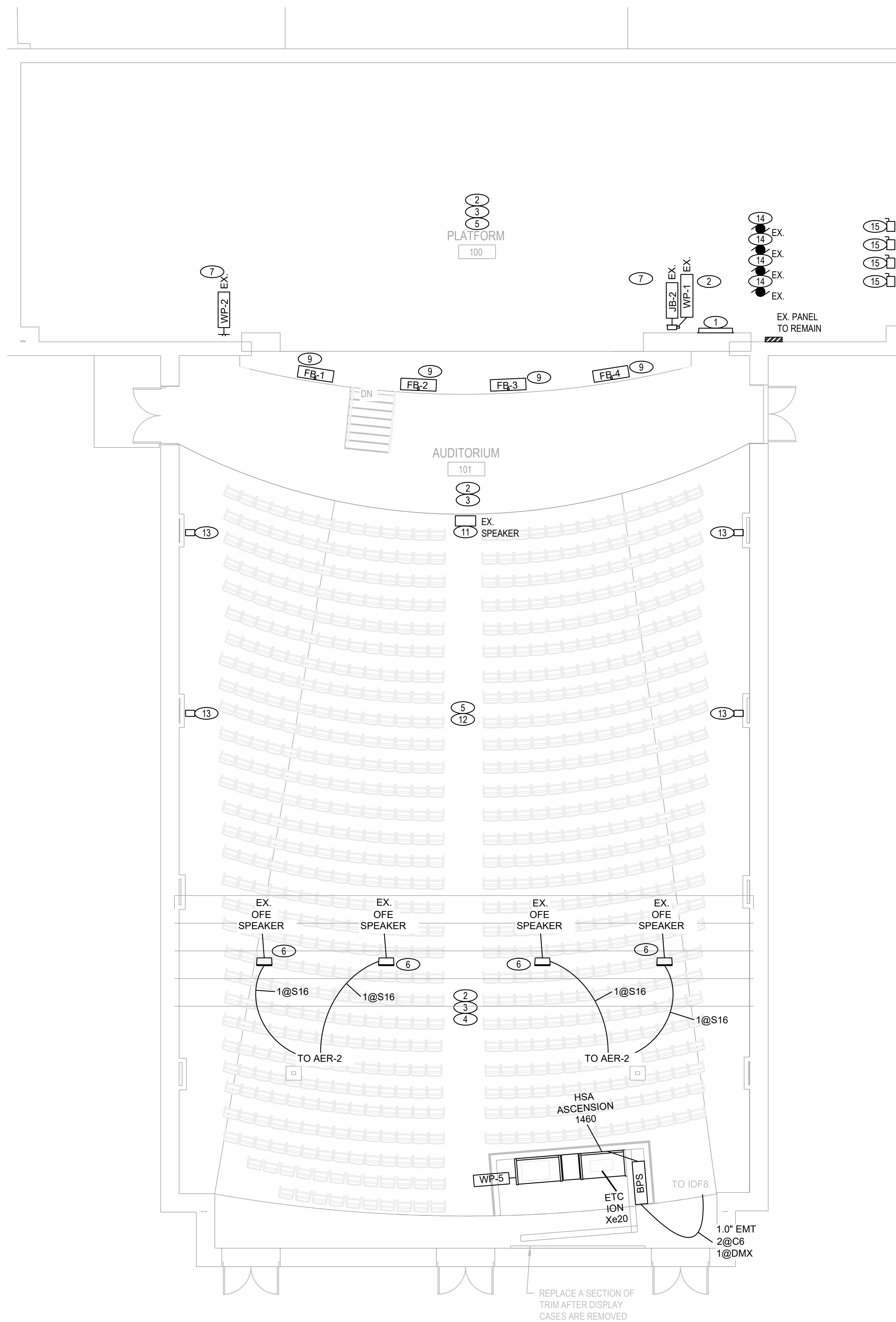


BASEMENT FLOOR PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"



MEZZANINE PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

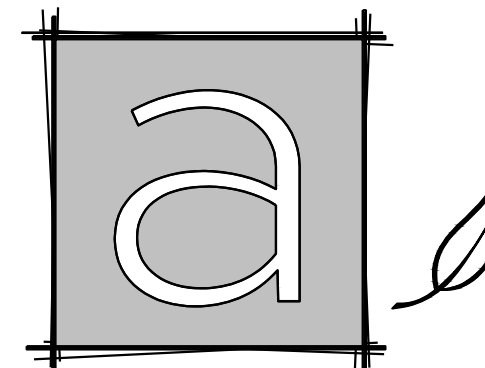
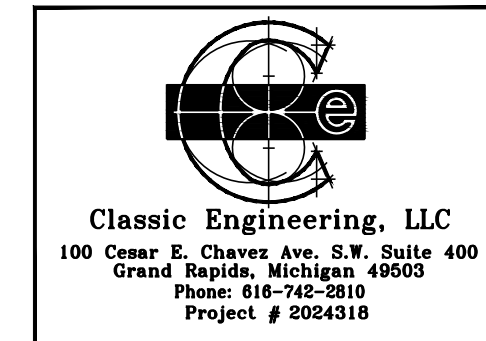
GENERAL NOTE:
REFER TO AV DRAWINGS TA001 AND TA002 FOR RESPONSIBILITIES OF ELECTRICAL AND TYPES OF CABLING.



FIRST FLOOR PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

DEMOLITION POWER KEYNOTES:

- 1 EXISTING DIMMING AND CONTROL CABINETS TO BE REMOVED AND DISPOSED OF.
- 2 REMOVE EXISTING GENERAL LIGHTING. PULL CIRCUITS BACK TO SOURCE.
- 3 REMOVE EXISTING CONDUITS NOT TO BE RE-USED FOR NEW AV/ EQUIPMENT.
- 4 REMOVE EXISTING SPEAKERS, TURN OVER TO OWNER.
- 5 REFER TO DRAWINGS TA101, TA111, TA102, TL112 AND TR101 FOR ADDITIONAL DEMOLITION NOTES.
- 6 EXISTING LOUD SPEAKERS AT THIS LOCATION TO BE REMOVED ALONG WITH ALL ASSOCIATED WIRING.
- 7 EXISTING INPUT PLATE AND WIRING TO BE REMOVED. PROVIDE BLANK COVER PLATE AND ABANDON IN PLACE.
- 8 EXISTING INTERCOM BOX AND WIRING AT THIS LOCATION TO BE REMAIN AND BE RE-USED.
- 9 EXISTING INPUT PLATE AND WIRING TO BE REMOVED. BOX AND CONDUIT TO REMAIN AND BE RE-USED FOR THIS PROJECT.
- 10 EXISTING AV RACK AT THIS LOCATION TO BE REMOVED ALONG WITH ASSOCIATED EQUIPMENT AND WIRING.
- 11 EXISTING LOUD SPEAKER CLUSTER AT THIS LOCATION TO BE REMOVED.
- 12 EXISTING LIGHTING EQUIPMENT AT THIS LOCATION TO BE REMOVED ALONG WITH ALL ASSOCIATED WIRING. EXISTING MOTOR POWER PANEL TO REMAIN AND BE RE-USED IN THE PROJECT.
- 13 EXISTING TORMENTOR PLUGSTRIP AND LIGHTING TO BE REMOVED ALONG WITH ALL ASSOCIATED WIRING.
- 14 DISCONNECT POWER TO EXISTING MOTORS.
- 15 REMOVE EXISTING DISCONNECTS AND ALL ASSOCIATED ELECTRICAL MATERIALS NOT TO BE RE-USED. DISPOSE OF PROPERLY.



architektura PLC
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address



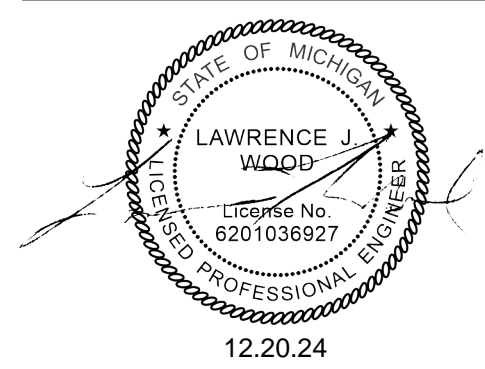
PROJECT NO. 1328

ISSUANCES

| | |
|-------------|----------------|
| 20 DEC 2024 | BIDS & PERMITS |
|-------------|----------------|

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|



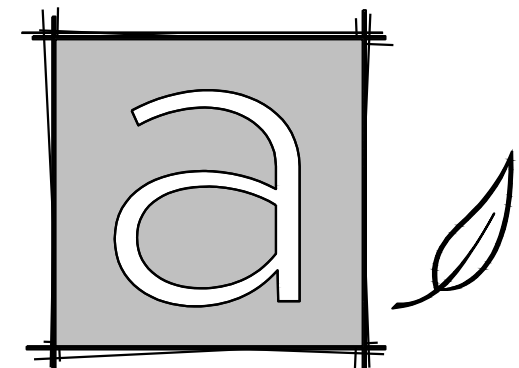
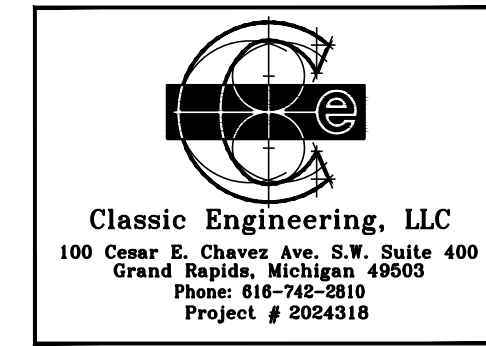
FLOOR PLANS - DEMOLITION

SCALE:
As indicated

ED-1

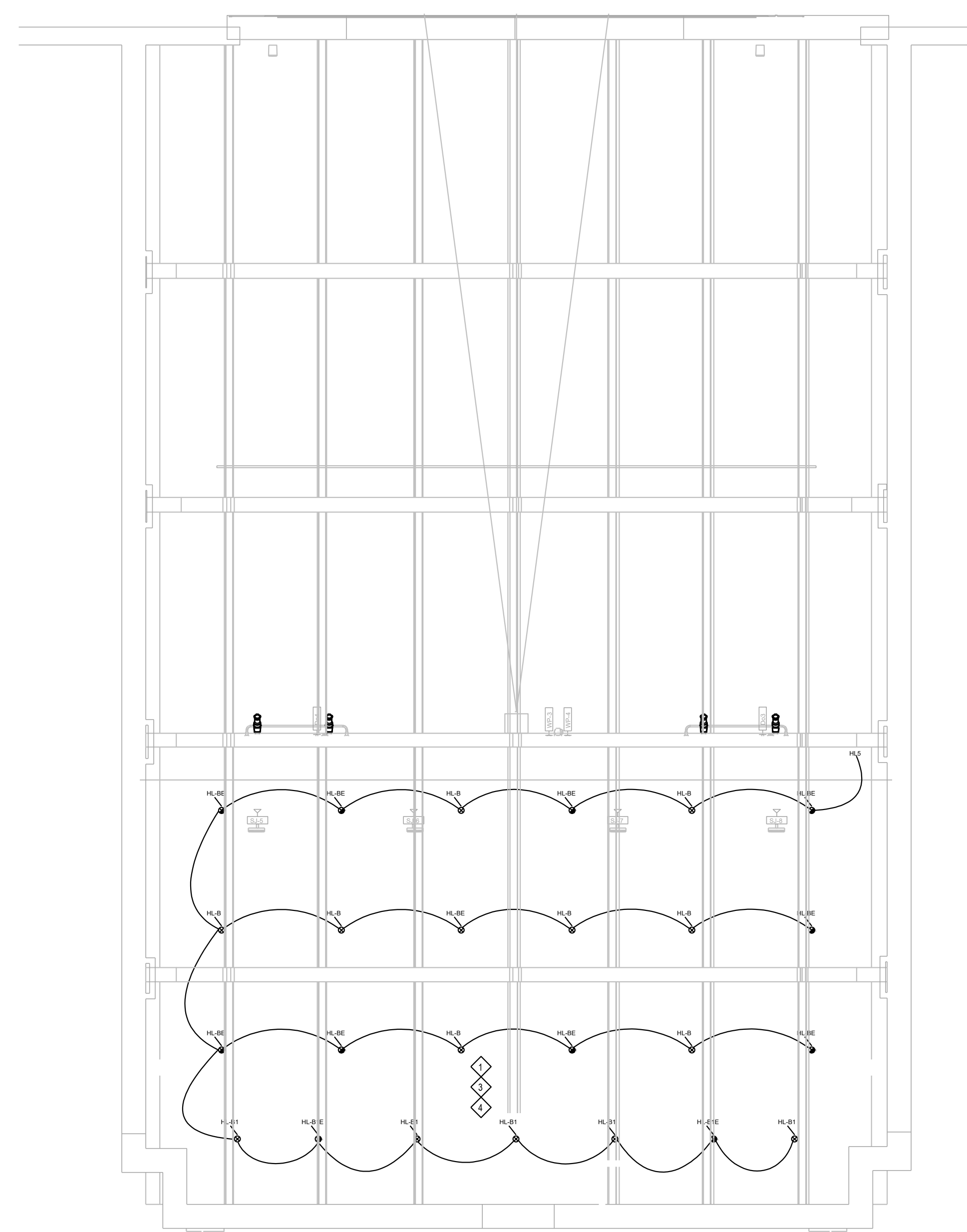
P:\2024\2024318 Innovation Central Auditorium\Working Drawings\2024318 E1.dwg, 12/20/2024 2:26:35 PM, cll

THIS DOCUMENT HAS BEEN PREPARED BY ARCHITEKTURA PLC AS AN INSTRUMENT OF SERVICE, AND ARCHITEKTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN.



GENERAL NOTE:
REFER TO AV DRAWINGS TA001 AND TA002 FOR
RESPONSIBILITIES OF ELECTRICAL AND TYPES OF CABLING.

| GENERAL LIGHT FIXTURE LEGEND | | | | | | | | |
|------------------------------|---|----------------------------|--|--------|---------|-----------------------|---------|---|
| FIXTURE TYPE | DESCRIPTION | MANU | CATALOG PART# | FINISH | VOLTAGE | LAMPS | Wattage | REMARKS |
| HLA | PENDANT BATTERY REM7 | LUMINIS PRESCOLITE | SYP605 L1L50 VWD 30K MVOLT STM 60 SWK WHT | WHITE | MVOLT | LED 3000K 4900LMN | 58W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLAE | PENDANT WITH BATTERY | LUMINIS PRESCOLITE | SYP605 L1L50 VDW 30K MVOLT STM 60 REM7 SWK WHT | WHITE | MVOLT | LED 3000K 4900LMN | 58W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLA1 | PENDANT | LUMINIS PRESCOLITE | SWYP605 L1L60 VWD 30K MVOLT STM 60 SWK WHT | WHITE | MVOLT | LED 3000K 6105 LMN | 63W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLA1E | PENDANT WITH BATTERY | LUMINIS PRESCOLITE | SWYP605 L1L60 VWD 30K MVOLT STM 60 REM7 SWK WHT | WHITE | MVOLT | LED 3000K 6105 LMN | 63W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLA2 | PENDANT | LUMINIS PRESCOLITE | SYP605 L1L60 FLD 30K MVOLT STL 48 SWK | WHITE | MVOLT | LED 3000K 6105 LMN | 69W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLA2E | PENDANT W/BATTERY | LUMINIS PRESCOLITE | SYP605 L1L60 FLD 30K MVOLT STL 48 REM7 SWK | WHITE | MVOLT | LED 3000K 6105 LMN | 69W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLB1 | RECESSED | GOTHAM PRESCOLITE | EV06 30/2000WR LSSMWD MVOLT GZ1 TRW | WHITE | MVOLT | LED 3000K 2000LMN | 15W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLB1E | RECESSED W/ BATTERY BACK UP | GOTHAM PRESCOLITE | EV06 30/2000WR LSSMWD MVOLT GZ1 E10WCP TRW | WHITE | MVOLT | LED 3000K 2000LMN | 15W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLB2 | RECESSED | GOTHAM PRESCOLITE | EV06 30/07WR LSSMWD MVOLT GZ1 E10WCP TRW | WHITE | MVOLT | LED 3000K 750 LMN | 9W | DIMMABLE TO LESS THAN 1FC 0-10V |
| HLC | WALL MOUNT CYLINDER | GOTHAM ZANBONI | EV04 WDM PROR07 AR MD LSS MVOLT JBX DN DWH W3LAR4S-09-30-A-3-C-WS-20 | WHITE | 120 | LED 3000K 750LMN | 9W | DIMMABLE TO LESS THAN 1FC CONTROL DMX512 |
| HLE | VAPOR TIGHT WALL MOUNT | MAXLITE LITHONIA DAYBRITE | JJW12001JUBLU/E/LED13WA19/OMN/830/DIM-B | GREY | MVOLT | LED 4000K 600LMN | 15 | DIMMABLE EKO LAMPTO REPLACE NON DIMMABLE SUPPLIED WITH LED SOURCE. ELV, BLUE FILTER |
| HLF | 1X4 SURFACE MOUNT | LITHONIA COLUMBIA DAYBRITE | CPANL 1X4 AL01 SWWW7 M4 1X4SMKSH | WHITE | 120 | LED 3000K 2400 LUMEN | 41W | PROVIDE SURVICE MOUNT TRM KIT 0-10V |
| HLG | WALL MOUNT PROVIDE 2" 16/3 SO CORD | LITHONIA COLUMBIA DAYBRITE | DSXF2 LED P1 40K 70CRI WFL MVOLT YK62 DBLDXD | WHITE | 120 | LED 4000K 7489 KUMENS | 52W | DIMMABLE TO LESS THAN 1FC |
| HLG1 | ROUND HIGH BAY SWITCHABLE LUMEN PENDANT | KEYSTONE ORION LITHONIA | KT-RH1LED100-11CB-840-VDIM/KT-P-L515P | BLACK | MVOLT | LED 4000K | 100 | SUPPLY WKT-RHLED-SM-1-WG2 |
| HLH | FLOOD LIGHT BATTEN MOUNT | KEYSTONE TECH | KT-FLED60-R1A-UNV-840B-VDIM-B | BLACK | 120 | LED 4000K 8580 LMN | 60W | PROVIDE (1) LIGHT SOURCE MSCB-1/2CS MEGA SLIM COUPLER |
| E1 | EXIT COMBO W/ BATTERY | ACUITY DUAL LITE | LHQM LED R M6 | WHITE | 120 | LED | | |
| E2 | EXIT DOUBLE SIDE W/ BATTERY | ACUITY DUAL LITE | LHQM LED R M6 WITH EXTRA FACE | WHITE | 120 | LED | | MOUNT AT 7'-6" AFF |



FIRST FLOOR PLAN - HOUSE LIGHTING
SCALE: 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

- CONNECT EMERGENCY LIGHTING TO CIRCUIT FEEDING GENERAL LIGHTING IN THAT AREA.
- EXIT SIGNS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT OR EMERGENCY LIGHTING CIRCUIT FEEDING THAT AREA.
- LIGHTING CONTROL SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE WHERE APPLICABLE.
- NOT ALL NOTES PERTAIN TO ALL DRAWINGS.
- EMERGENCY LIGHTING SHALL HAVE BATTERY BACKUP FOR THIS PROJECT.

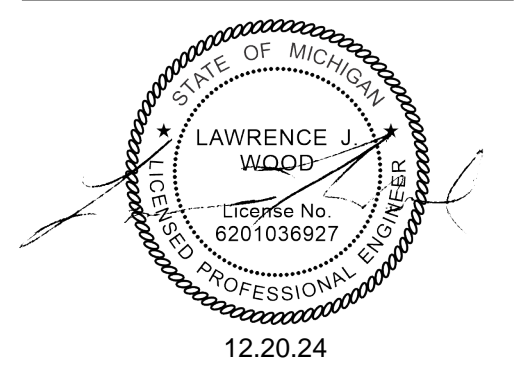
LIGHTING KEY NOTES:

- ALL LIGHTING TO BE CONTROLLED THROUGH RELAY PANELS.
- REFER TO TO LIGHTING ON STAGE EL-2 FOR LIGHTING ON STAGE 100.
- RELAY PANELS LOCATED ON BASEMENT LEVEL. REFER TO DRAWING EP-1 FOR LOCATION.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL GENERAL LIGHTS PER FIXTURE SCHEDULE ON DRAWING EL-1.

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address

| | |
|-------------|----------------|
| PROJECT NO. | 1328 |
| ISSUANCES | |
| 20 DEC 2024 | BIDS & PERMITS |

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |



FLOOR PLANS -
LIGHTING

SCALE: As indicated

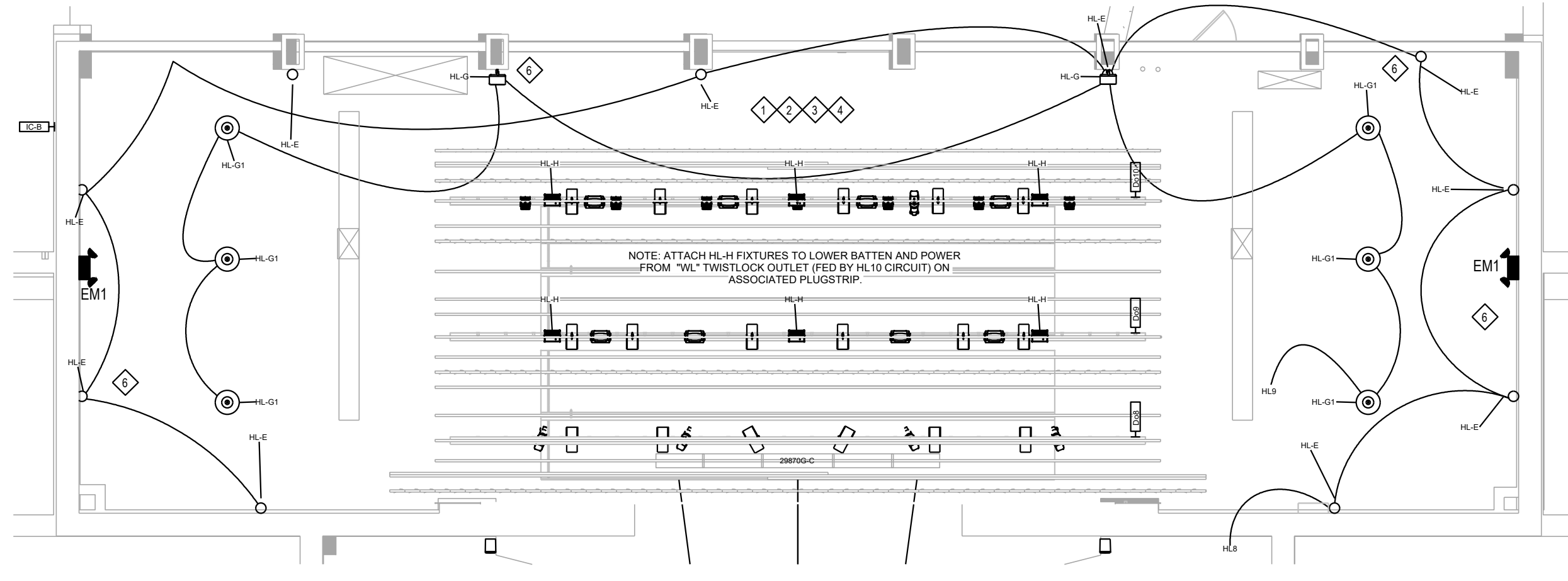
EL-1



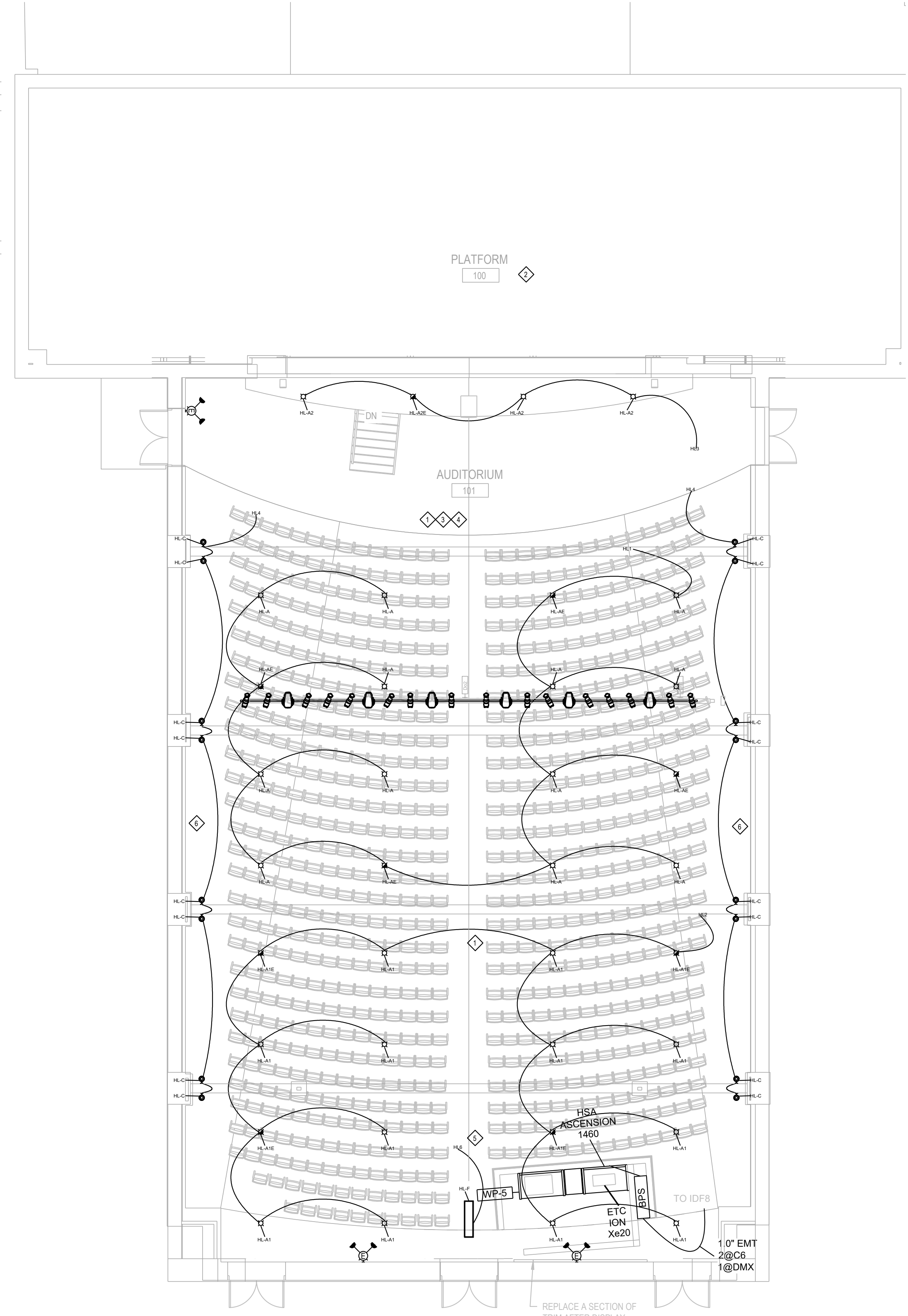
P:\2024\202424318 Innovation Central Auditorium\Working Drawings\2024318 E1.dwg, 12/20/2024, 2:24:35 PM, cll

THIS DOCUMENT HAS BEEN PREPARED BY ARCHITECTURA PLC AS AN INSTRUMENT OF SERVICE, AND ARCHITECTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN.

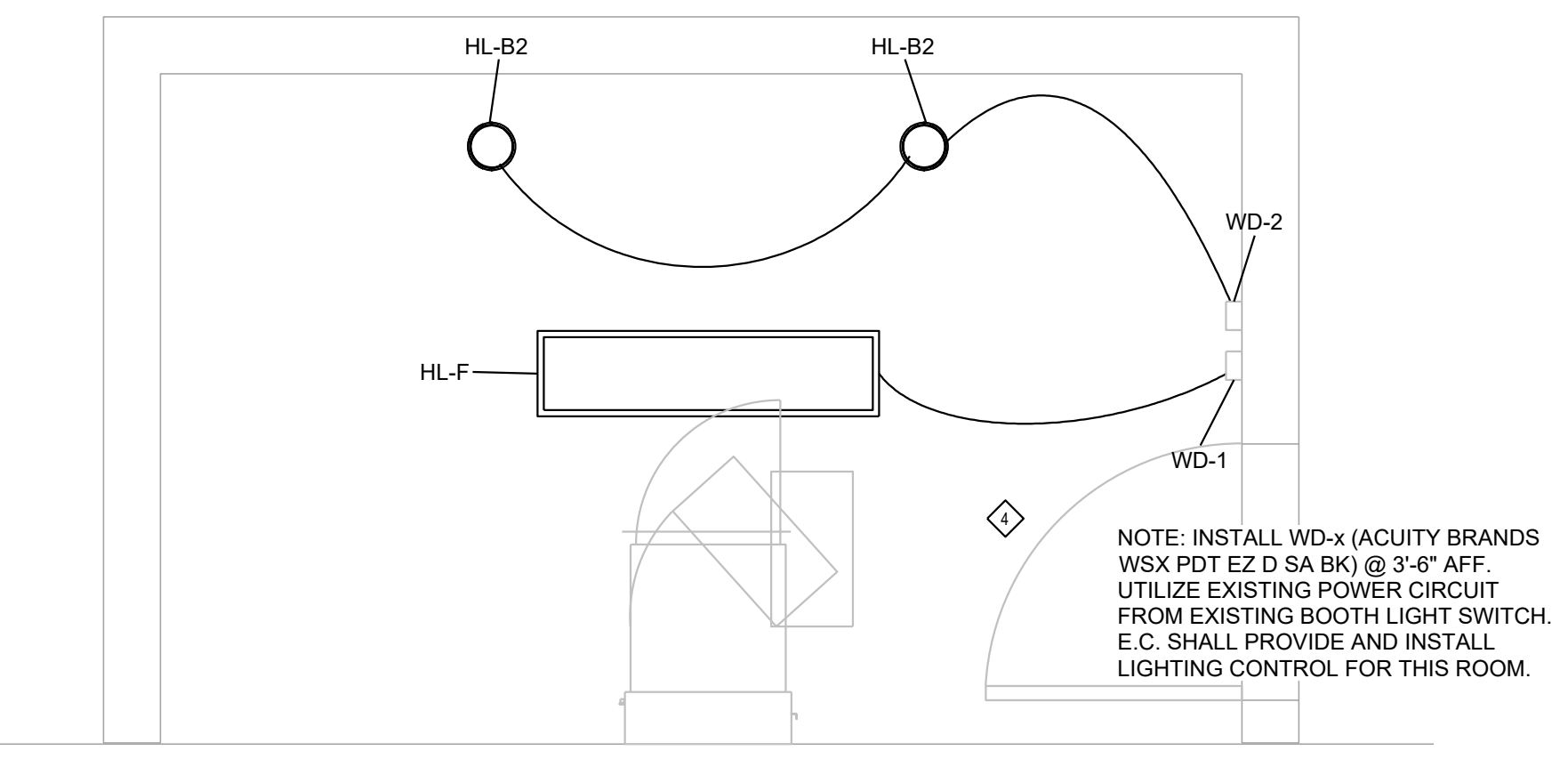
GENERAL NOTE:
REFER TO AV DRAWINGS TA001 AND TA002 FOR
RESPONSIBILITIES OF ELECTRICAL AND TYPES OF CABLING.



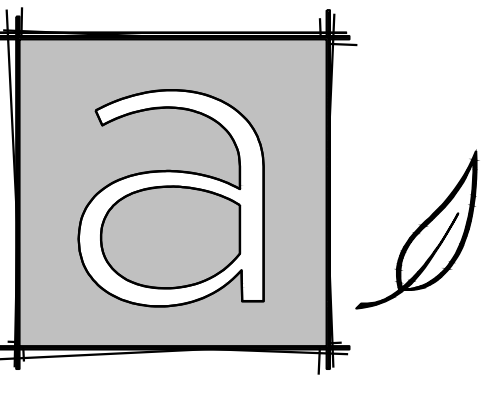
STAGE AREA PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



MEZZANINE PLAN - HOUSE LIGHTING
SCALE: 1/8" = 1'-0"



INTERPRETER BOOTH PLAN - LIGHTING
SCALE: 1/2" = 1'-0"



- GENERAL LIGHTING NOTES:
- CONNECT EMERGENCY LIGHTING TO CIRCUIT FEEDING GENERAL LIGHTING IN THAT AREA.
 - EXIT SIGNS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT OR EMERGENCY LIGHTING CIRCUIT FEEDING THAT AREA.
 - LIGHTING CONTROL SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE WHERE APPLICABLE.
 - NOT ALL NOTES PERTAIN TO ALL DRAWINGS.
 - EMERGENCY LIGHTING SHALL HAVE BATTERY BACKUP FOR THIS PROJECT.

- LIGHTING KEY NOTES:
- ALL LIGHTING TO BE CONTROLLED THROUGH RELAY PANELS.
 - REFER TO TO LIGHTING ON STAGE EL-2 FOR LIGHTING ON STAGE 100.
 - RELAY PANELS LOCATED ON BASEMENT LEVEL. REFER TO DRAWING EP-1 FOR LOCATION.
 - ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL GENERAL LIGHTS PER FIXTURE SCHEDULE ON DRAWING EL-1.
 - UTILIZE CRAWLSPACE ABOVE MEZZANINE TO RUN CONDUIT FOR NEW LIGHTING. SURFACE MOUNTED CONDUIT IS **NOT ALLOWED** ON CEILING.
 - VERIFY MOUNTING HEIGHT WITH ARCHITECT AND AV CONTRACTOR FOR WALL MOUNTED LIGHT FIXTURES.

architektura PLC
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address



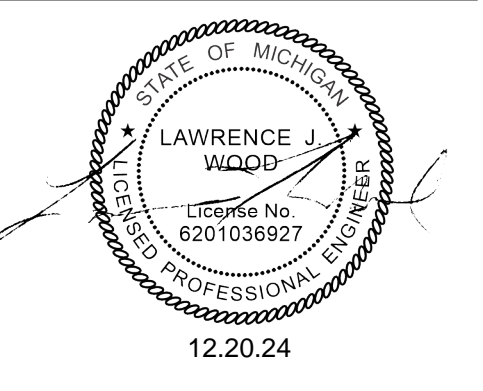
PROJECT NO. 1328

ISSUANCES

| | |
|-------------|----------------|
| 20 DEC 2024 | BIDS & PERMITS |
|-------------|----------------|

REVISIONS

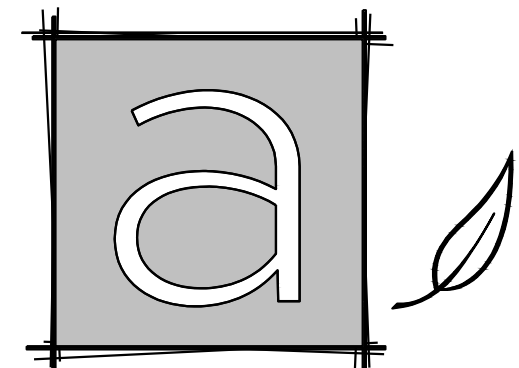
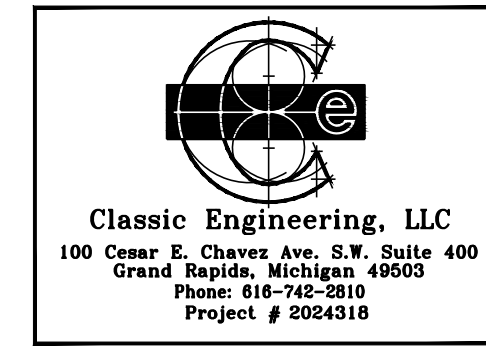
| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|



MEZZANINE PLANS -
LIGHTING

SCALE: As indicated

EL-2

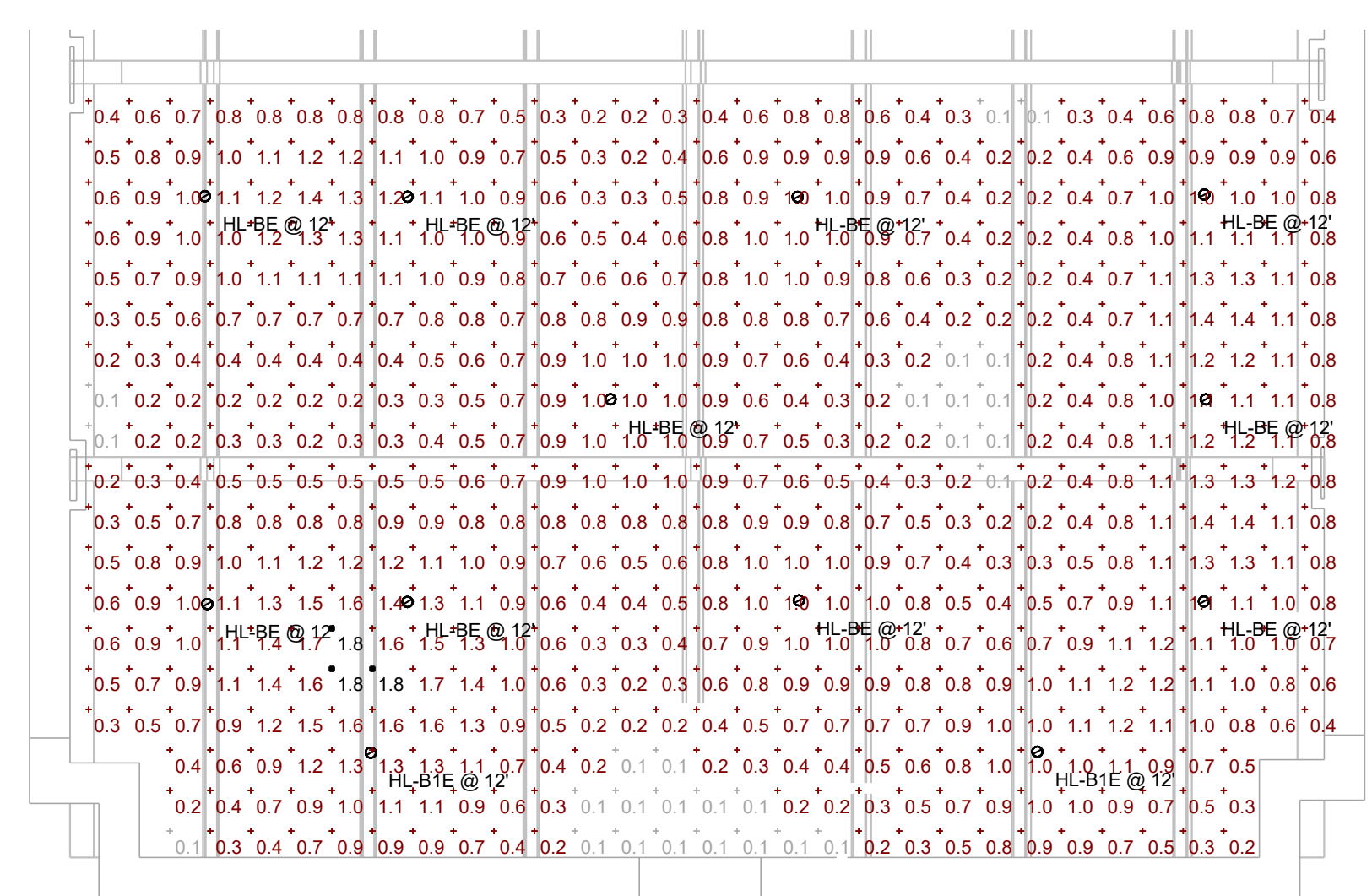


GENERAL NOTE:
REFER TO AV DRAWINGS TA001 AND TA002 FOR
RESPONSIBILITIES OF ELECTRICAL AND TYPES OF CABLING.

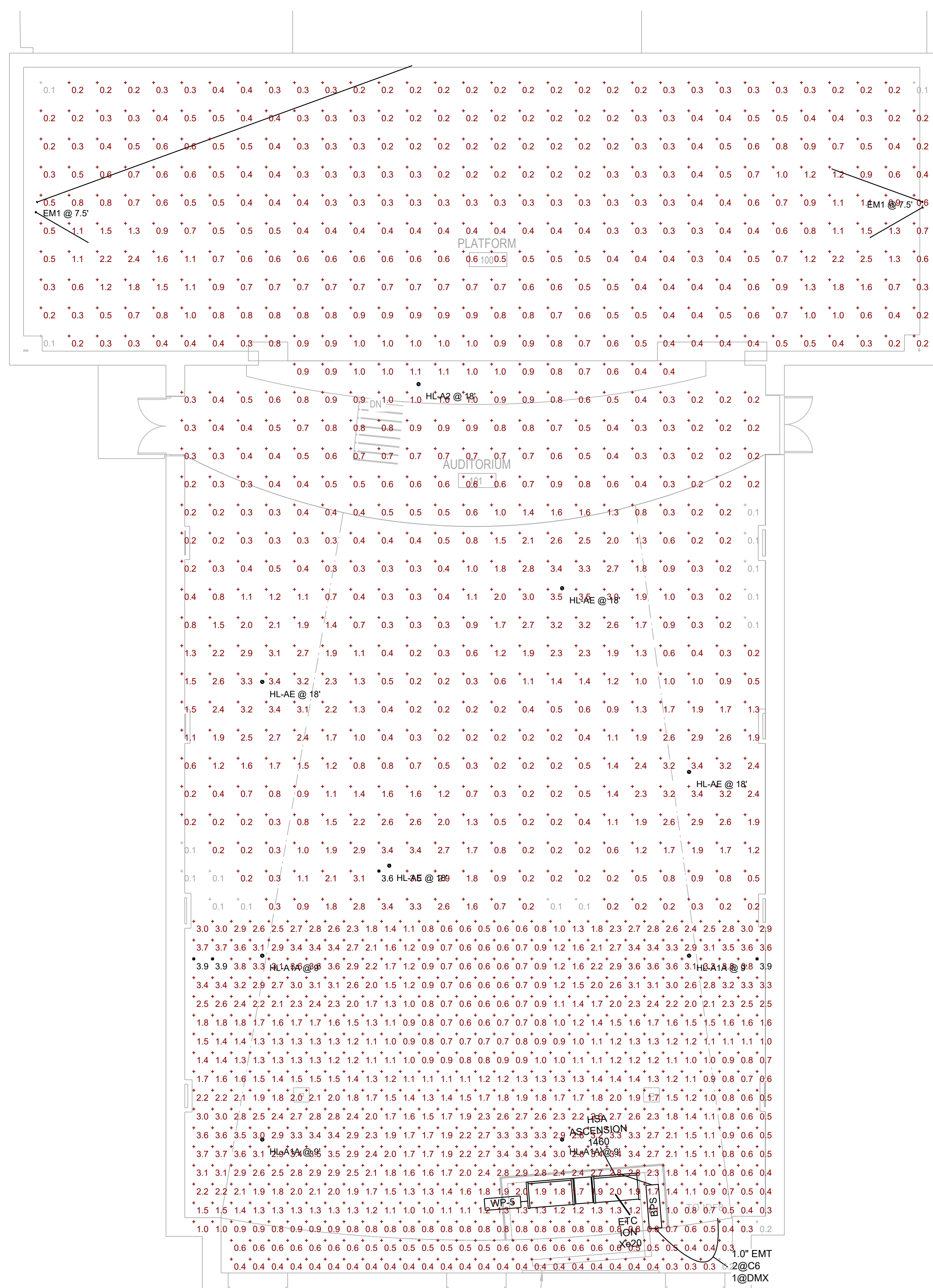
architektura^{PLC}
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com

| Symbol | Label | Image | QTY | Manufacturer | Catalog | Description | Number Lamps | Lamp Output | LLF | Input Power | Polar Plot |
|--------|-------|-------|-----|-------------------------------|-----------------------|--|--------------|-------------|------|-------------|-------------|
| HL-AE | | | 4 | LUMINIS | SYP605-L1L50-VWD | SYP605 | 1 | 5031 | 0.16 | 58 | Max: 6743cd |
| HL-A1A | | | 4 | LUMINIS | SYP605-L1L60-LD1 | SYP605 | 1 | 6463 | 0.16 | 63 | Max: 3589cd |
| HL-A2 | | | 1 | LUMINIS | SYP605-L1L60-LD2 | SYP605 | 1 | 6567 | 0.16 | 63 | Max: 3043cd |
| HL-BE | | | 10 | Gotham Architectural Lighting | EVO6 30/07 AR MWD LSS | EVO 6IN ROUND, 80 CRI, 3000K, 750LM, MED WIDE DIST, CLEAR, SEMI-SPEC | 1 | 737 | 0.19 | 8.2 | Max: 724cd |
| HL-B1E | | | 2 | Gotham Architectural Lighting | EVO6 30/07 AR MWD LSS | EVO 6IN ROUND, 80 CRI, 3000K, 750LM, MED WIDE DIST, CLEAR, SEMI-SPEC | 1 | 737 | 0.19 | 8.2 | Max: 724cd |
| EM1 | | | 2 | Lithonia Lighting | ELMML | ELMML SP640L | 1 | 345 | 1 | 2.5 | Max: 697cd |

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|--------------------------------|--------|--------|--------|--------|---------|---------|
| AUDITORIUM 101 UNDER MEZZANINE | + | 0.7 fc | 1.8 fc | 0.1 fc | 18.0:1 | 7.0:1 |
| PLATFORM 100 AUDITORIUM 101 | + | 0.8 fc | 3.6 fc | 0.1 fc | 36.0:1 | 8.0:1 |
| AUDITORIUM 101 MEZZANINE FLOOR | + | 1.7 fc | 3.9 fc | 0.2 fc | 19.5:1 | 8.5:1 |



MEZZANINE FLOOR PLAN - PHOTOMETRICS
SCALE: 1/8" = 1'-0"



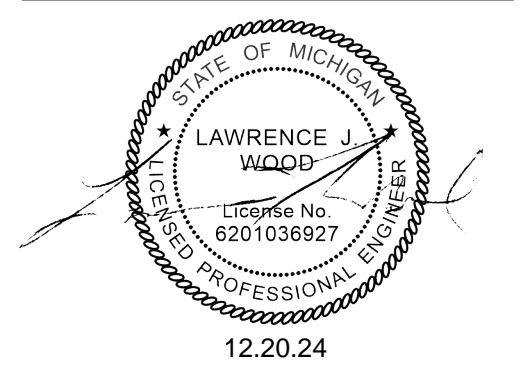
FIRST FLOOR PLAN - PHOTOMETRICS
SCALE: 1/8" = 1'-0"

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address



PROJECT NO. 1328
ISSUANCES
20 DEC 2024 BIDS & PERMITS

REVISIONS
NO. DATE DESCRIPTION



FLOOR PLANS - PHOTOMETRICS

SCALE: As indicated

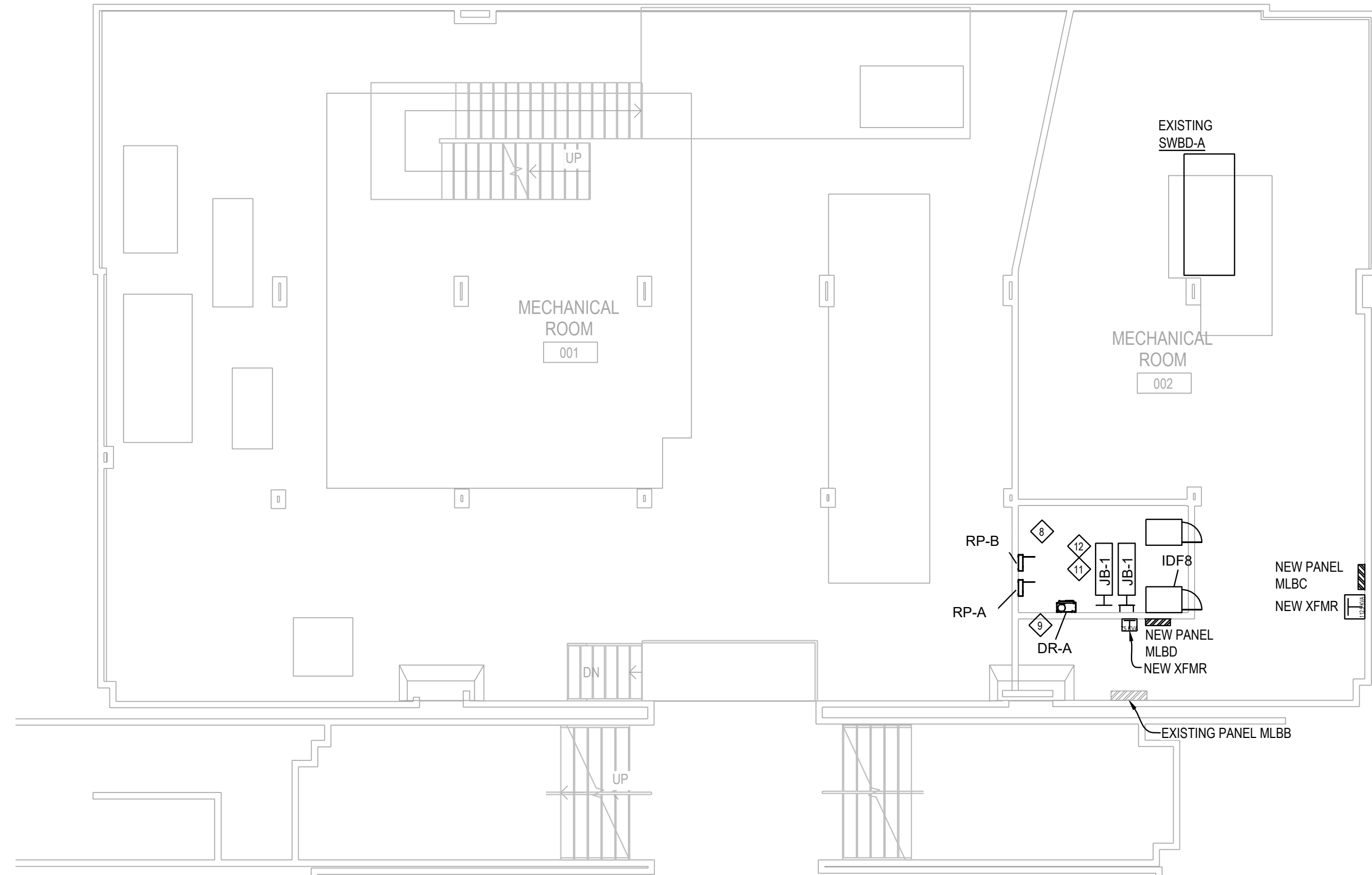
EL-3

P:\2024\202404318 Innovation Central Auditorium\Working Drawings\202404318 E1.dwg, 12/20/2024, 2:25:26 PM, cl

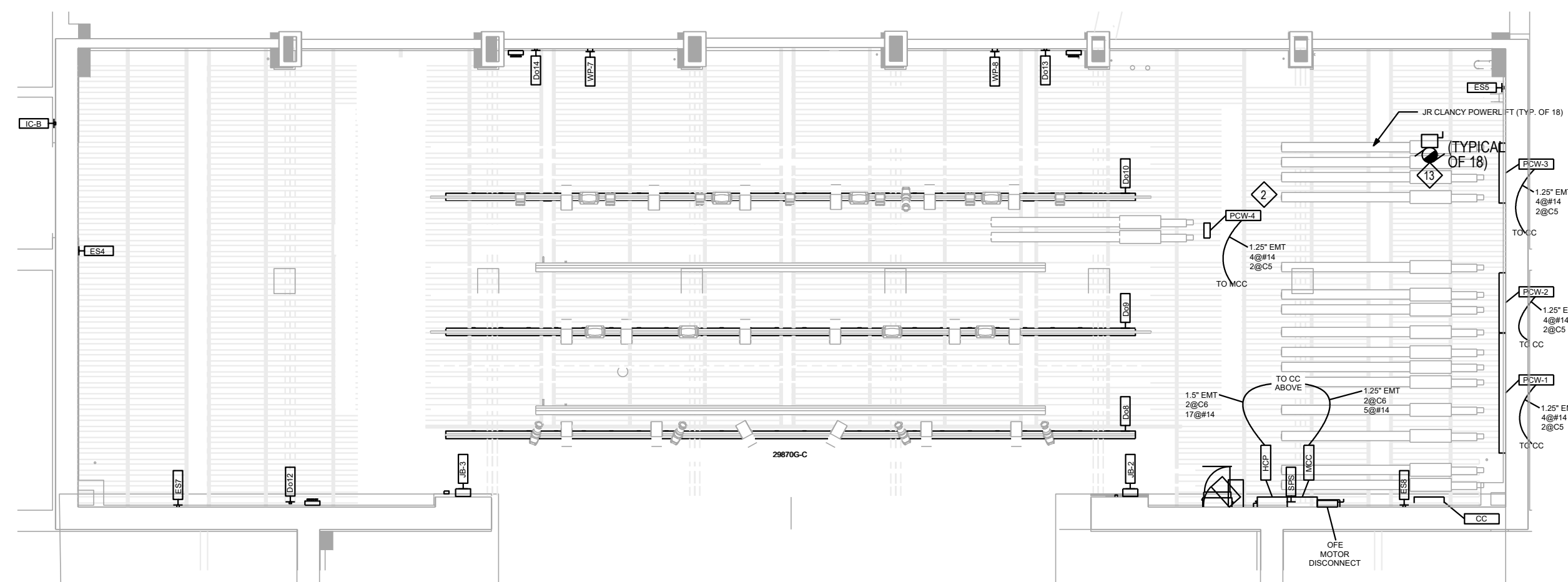
THIS DOCUMENT HAS BEEN PREPARED BY ARCHITECTURA PLC AS AN INSTRUMENT OF SERVICE, AND ARCHITECTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE RIGHT OF COPYRIGHT, HEREIN.

| CABLE TYPES - TL | | | |
|------------------|---|-----------|--------|
| CODE | DESCRIPTION | MAKE | MODEL |
| C | (3) #16 AWG STRANDED WIRES | | |
| C6 | CAT6 - 4 UNSHIELDED, TWISTED PAIR | BELDEN | 2412 |
| DMX | DMX LIGHTING CONTROL CABLE | BELDEN | 1583A |
| P2 | CONTROL WIRE - 1 PR 22 GA W/SHIELD | BELDEN | 9451 |
| P4 | CONTROL WIRE - 2 PR 18 GA W/SHIELD | WEST PENN | 440 |
| RS232 | CUSTOM CONTROL CABLE | CUSTOM | CUSTOM |
| U | UNISON CABLING - (1) #14 AWG STRANDED WIRE, (1) BELDEN 8471 | BELDEN | 8471 |
| UV | UNISON CABLING - (1) #14 AWG STRANDED WIRE, (1) BELDEN 8471, (2) #16 AWG STRANDED WIRES | BELDEN | 8471 |

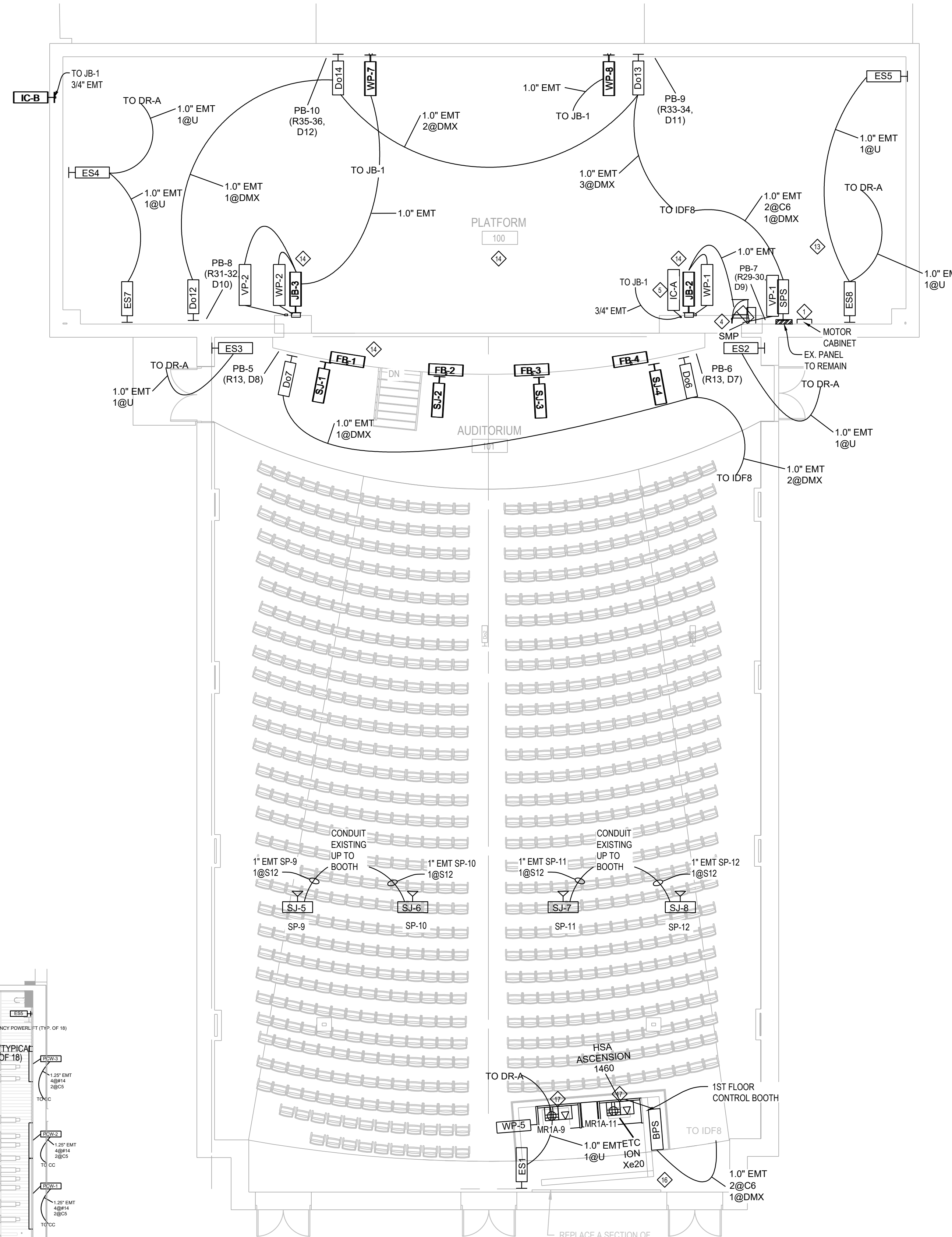
GENERAL NOTE:
REFER TO AV DRAWINGS TA001 AND TA002 FOR RESPONSIBILITIES OF ELECTRICAL AND TYPES OF CABLING.



BASEMENT FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



STAGE CEILING PLAN - POWER
SCALE: 1/8" = 1'-0"



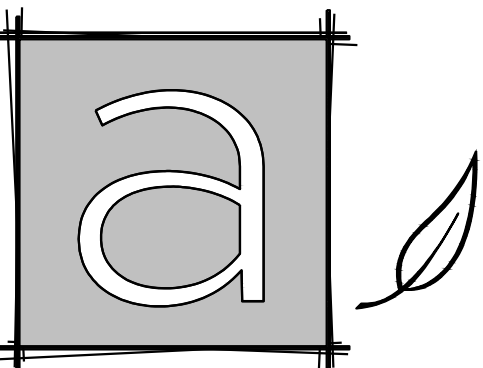
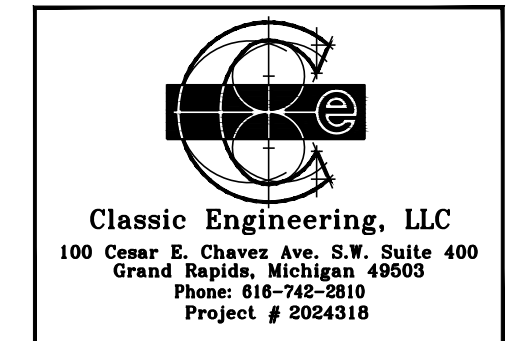
FIRST FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

1. MOUNT PANELS, TRANSFORMERS, DISCONNECT SWITCHES, AND COMBINATION MOTOR STARTERS WITH ADEQUATE CLEARANCES IN ACCORDANCE WITH NEC 110.
2. EXISTING FIRE ALARM DEVICES TO REMAIN.
3. FIRE ALARM (FA) DEVICES, IF SHOWN, ARE DIAGRAMMATIC IN NATURE ONLY AND ARE INTENDED ONLY TO COMMUNICATE MAJOR SYSTEM COMPONENTS AND APPROXIMATE LOCATIONS. FULL FA DRAWINGS TO BE DELEGATED DESIGN AND SHALL INCLUDE ALL SYSTEM COMPONENTS, CALCULATIONS AND LOCATIONS.
4. NOT ALL NOTES PERTAIN TO ALL DRAWINGS.
5. REFER TO DRAWINGS TA201, TA202, TA401, TL201, TL202, TL211 AND TR201 FOR ALL FOR ALL CONDUIT AND CABLE REQUIREMENTS.
6. RUN NEW CONDUITS FROM FLOOR BELOW. MOUNT FLOOR BOXES FLUSH.

POWER KEYNOTES:

- ◆ E.C. TO PROVIDE 208Y/120V 125A 3Ø 4W-GND CIRCUIT AT THIS LOCATION. SERVICE TO SOURCE FROM RIGGING DISCONNECT IN DOWNSTAGE LEFT WING.
- ◆ HOIST TO BE LOCATED IN ATTIC SPACE ABOVE.
- ◆ E.C. TO PROVIDE (1) 20A/120V CIRCUIT FOR HCP AT THIS LOCATION. SERVICE TO SOURCE FROM RP-B.
- ◆ E.C. TO PROVIDE (1) 20A/120V CIRCUIT FOR HCP AT THIS LOCATION. SERVICE TO SOURCE FROM RP-B.
- ◆ AV TO INSTALL INTERCOM ANTENNA BELOW 1C BOX. E.C. TO PROVIDE BOX, CONDUIT AND CABLE.
- ◆ PROVIDE DMX GRIDIRON BOX AND 9700 SERIES GRIDIRON BOX IN ATTIC SPACE GRID ABOVE PANTOGRAPH. PROVIDE CONDUIT FROM 9700 SERIES GRIDIRON BOX TO APPROPRIATE RELAY PANEL (RP-x) AND PROVIDE CONDUIT FROM DMX GRIDIRON TO IDF8 AS REQUIRED.
- ◆ E.C. TO PROVIDE (1) 20A/120V CIRCUIT FROM RP-B TO ORCH. SHELL LIGHTS IN BOTH ORCH. SHELLS. COORDINATE INTEGRATION OF CIRCUIT WIRING WITH ORCH. SHELL MANUFACTURER.
- ◆ E.C. TO PROVIDE SEPARATE 150A FEEDS FROM EXISTING POWER SUPPLY TO EACH RP-x PANEL AT THIS LOCATION.
- ◆ E.C. TO PROVIDE 100A FEED FROM EXISTING POWER SUPPLY TO DR-x PANEL AT THIS LOCATION.
- ◆ E.C. TO PROVIDE 240V CIRCUIT ON BALCONY FACE FOR PRJ-1. COORDINATE OUTLET INSTALLATION HEIGHT IN FIELD.
- ◆ E.C. TO PROVIDE (3) 20A/120V CIRCUITS TO IDF8 AT THIS LOCATION. COORDINATE OUTLET MOUNTING HEIGHT AND PLACEMENT IN FIELD.
- ◆ EXISTING EQUIPMENT IN MDF ROOM IS TO REMAIN UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHOWN ON THIS PLAN IS NEW.
- ◆ ELECTRICAL CONTRACTOR SHALL REFER TO DRAWING TR201 AND TR701 FOR "R CLANCY" MOTOR LIFT WIRING DIAGRAM. E.C. IS RESPONSIBLE FOR ALL WIRING AND MOTOR CONTROLLERS.
- ◆ REFER TO DETAILS ON DRAWING TA401 FOR PLATE AND AV DEVICE DETAILS.
- ◆ NEW CONTROL BOOTH, REFER TO DETAIL ON DRAWING TA202, DETAILS 3 AND 4.
- ◆ CIRCUIT NEW WIRING DEVICES FEEDING INTERPRETERS CONTROL BOOTH. REFER TO AV PLAN TA202 AND ENLARGED PLAN EP-2.
- ◆ ELECTRICAL CONTRACTOR SHALL PROVIDE FLUSH MOUNTED FLOOR BOX BACK STAGE POCKET WITH DIVIDER FOR 120V POWER. SIMILAR TO ACE BACKSTAGE #122 8" DEEP WITH (1) QUADPLEX NEMA 5-20R IN EACH BOX AND FLUSH COVER. COORDINATE WITH AV CONTRACTOR FOR SIZE AND QUANTITIES OF CONDUITS AND CABLES. CIRCUIT FROM PANEL LOCATED IN CUST. /STOR. 133

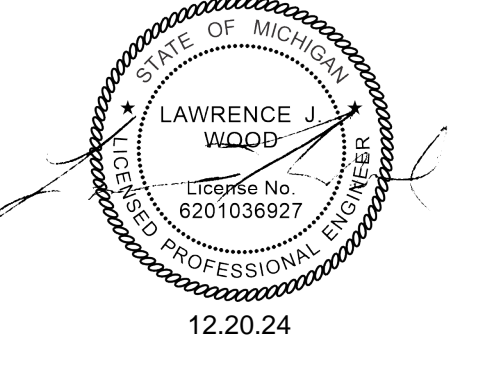


architektura ^{PLC}
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address

| | |
|--------------------|----------------|
| PROJECT NO. | 1328 |
| ISSUANCES | |
| 20 DEC 2024 | BIDS & PERMITS |

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
| | | |



FLOOR PLANS - POWER

SCALE: As indicated

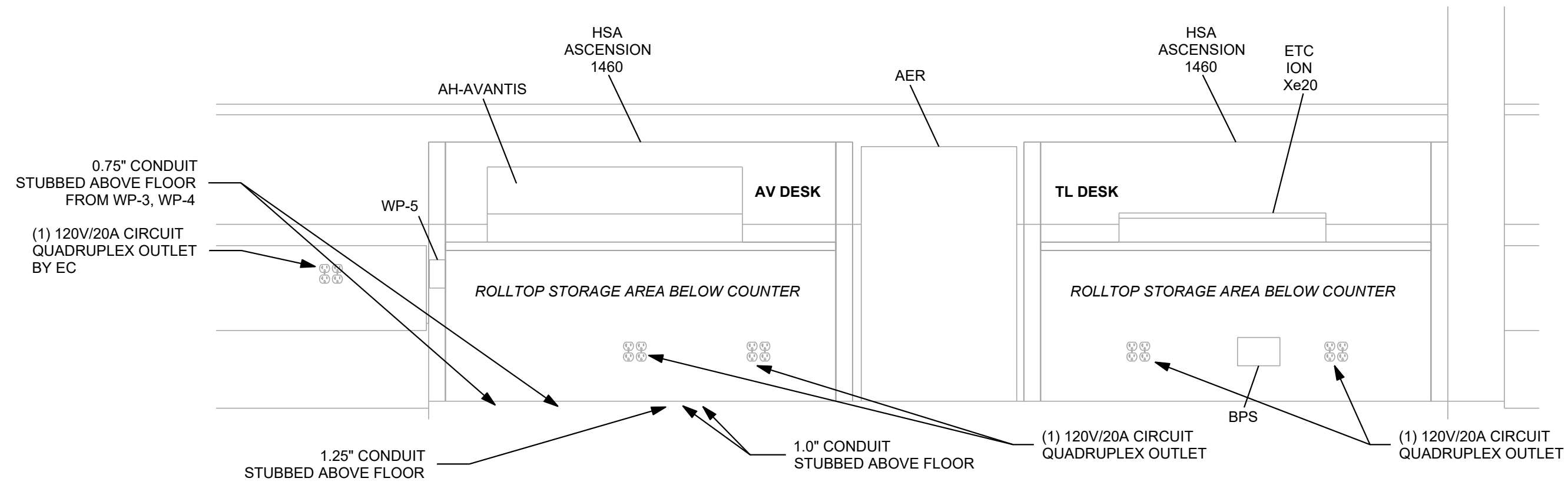
EP-1

P:\2024\2024318 Innovation Central Auditorium\Working Drawings\2024318 E1.dwg, 12/20/2024, 2:03:45 PM, cll

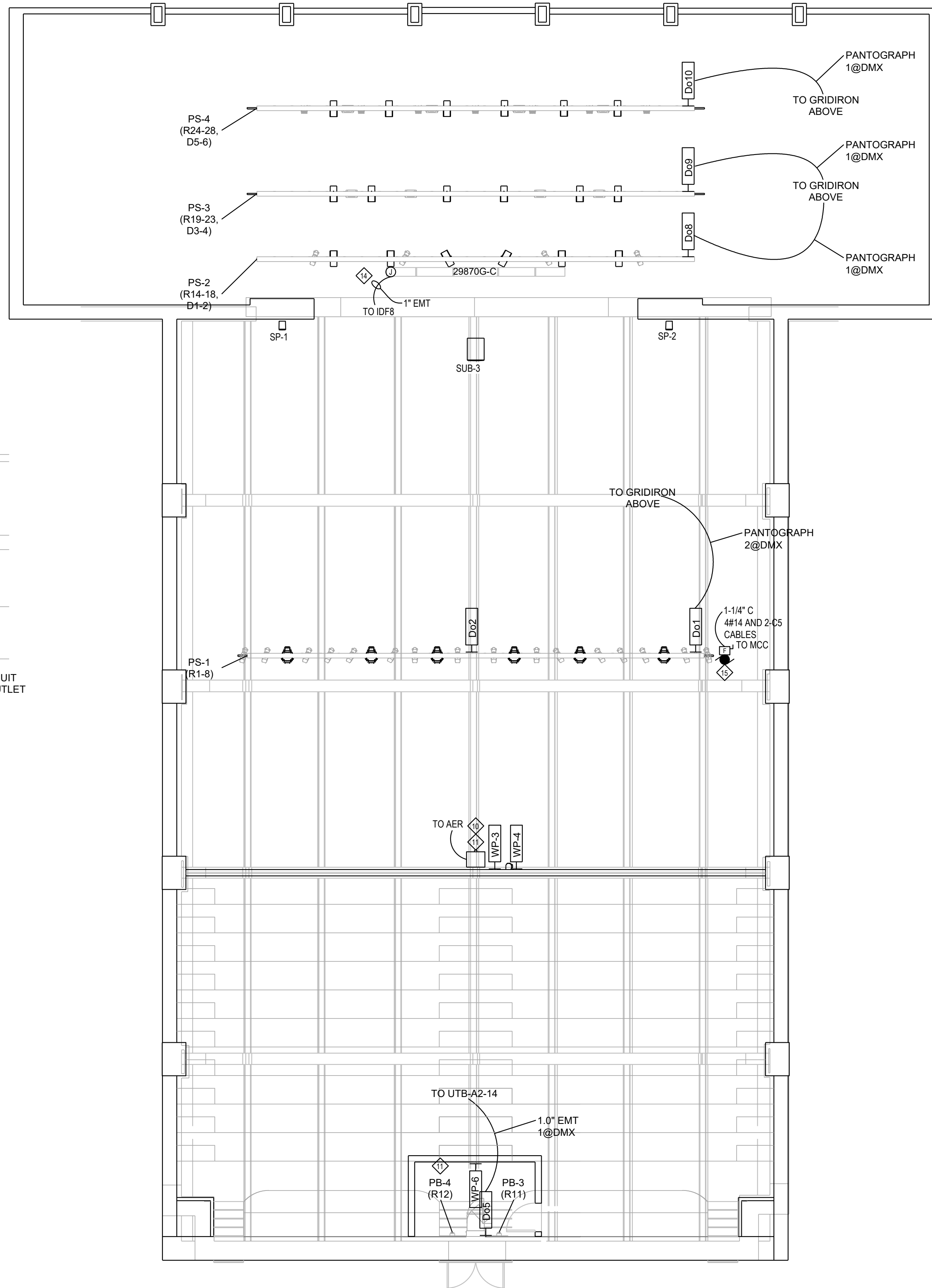
THIS DOCUMENT HAS BEEN PREPARED BY ARCHITECTURA PLC AS AN INSTRUMENT OF SERVICE, AND ARCHITECTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN.

GENERAL NOTE:
REFER TO AV DRAWINGS TA001 AND TA002 FOR
RESPONSIBILITIES OF ELECTRICAL AND TYPES OF CABLING.

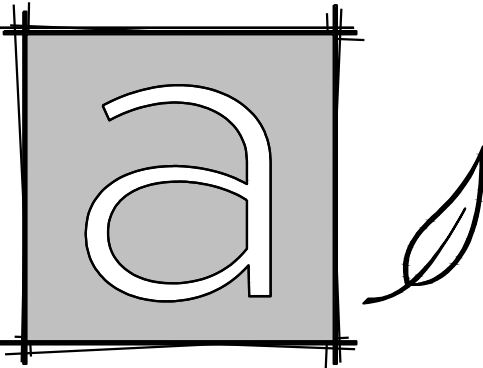
| CABLE TYPES - AV | | | | | |
|------------------|-------------------------------------|--------|-----------|------------------|----------------------------------|
| CODE | DESCRIPTION | BELDEN | WEST PENN | WINDY CITY | OTHER |
| C6 | CAT6 - 4 UNSHIELDED, TWISTED PAIR | 7883A | 4246 | CAT6 | |
| CNT | CONTROL WIRE | - | - | - | CABLE TYPE AS REQUIRED BY DEVICE |
| F | FIBER WIRE | 1801B | DA252401 | OCC-DZ006TSLX9YP | |
| HDMI | PRETERMINATED HDMI CABLE | - | - | - | 4K60 CAPABLE |
| L | LINE - 1 PR 22 GA W/ SHIELD | 9451 | 454 | 22-1PREZ | |
| M | MIC - 1 PR 22 GA W/ SHIELD | 9451 | 454 | 22-1PREZ | |
| RF | ANTENNA CABLE | - | - | - | CABLE TYPE AS REQUIRED BY DEVICE |
| S10 | SPEAKER - 1 PAIR 10 GA SPEAKER WIRE | 6T00UP | 25210 | 10-02P | |
| S12 | SPEAKER - 1 PAIR 12 GA SPEAKER WIRE | 6000UE | 227 | 12-02 | |
| S16 | SPEAKER - 1 PAIR 16 GA SPEAKER WIRE | 6200UE | 225 | 16-02 | |
| SDI | VIDEO COAXIAL WIRE | - | - | - | CABLE TYPE AS REQUIRED BY DEVICE |



AV ELEVATION - CONTROL BOOTH NORTH - POWER
SCALE: 3/4" = 1'-0"



MEZZANINE LANDING PLAN - POWER
SCALE: 1/8" = 1'-0"



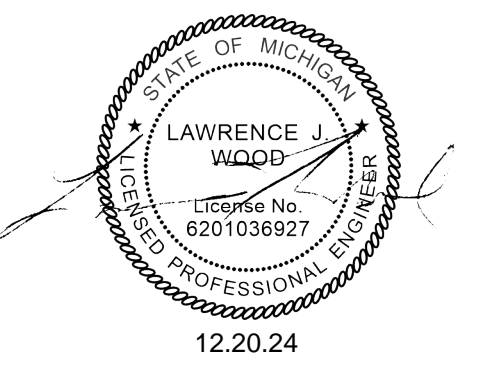
architektura^{PLC}
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com



NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address

| | |
|--------------------|----------------|
| PROJECT NO. | 1328 |
| ISSUANCES | |
| 20 DEC 2024 | BIDS & PERMITS |

| | | | |
|------------------|-----|------|-------------|
| REVISIONS | NO. | DATE | DESCRIPTION |
| | | | |



FLOOR PLANS - POWER

SCALE: As indicated

EP-2

GENERAL POWER NOTES:

1. MOUNT PANELS, TRANSFORMERS, DISCONNECT SWITCHES, AND COMBINATION MOTOR STARTERS WITH ADEQUATE CLEARANCES IN ACCORDANCE WITH NEC 110.
2. FIRE ALARM, SECURITY AND ACCESS CONTROL DEVICES SHOWN FOR REFERENCE ONLY AND DO NOT REPRESENT COMPREHENSIVE SYSTEMS.
3. FIRE ALARM (FA) DEVICES, IF SHOWN, ARE DIAGRAMMATIC IN NATURE ONLY AND ARE INTENDED ONLY TO COMMUNICATE MAJOR SYSTEM COMPONENTS AND APPROXIMATE LOCATIONS. FULL FA DRAWINGS TO BE DELEGATED DESIGN AND SHALL INCLUDE ALL SYSTEM COMPONENTS, CALCULATIONS AND LOCATIONS.
4. NOT ALL NOTES PERTAIN TO ALL DRAWINGS.

POWER KEYNOTES:

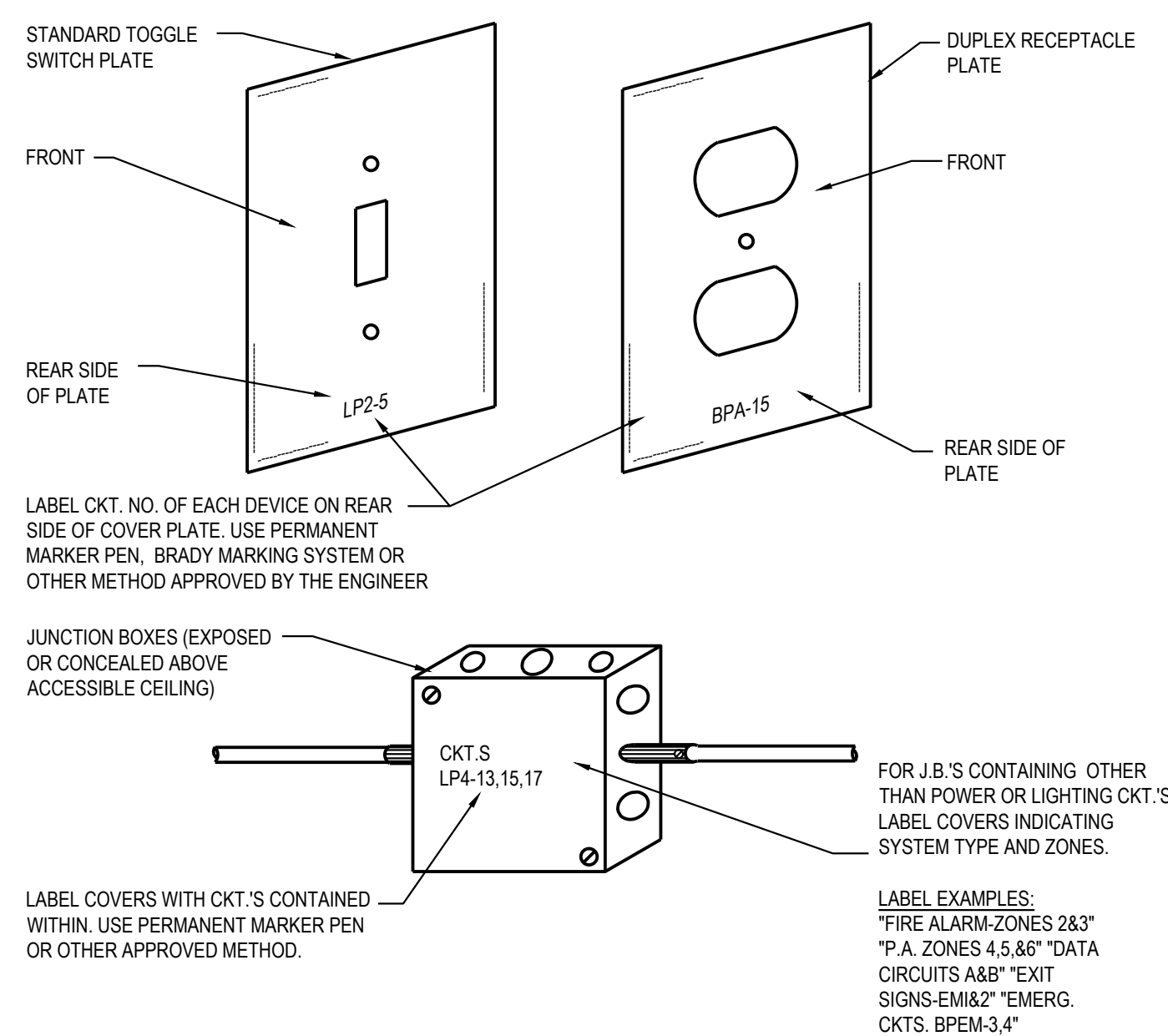
- ◇ E.C. TO PROVIDE 208Y/120V 125A 3Ø 4W+GND CIRCUIT AT THIS LOCATION. SERVICE TO SOURCE FROM RIGGING DISCONNECT IN DOWNSTAGE LEFT WING.
- ◇ HOIST TO BE LOCATED IN ATTIC SPACE ABOVE.
- ◇ E.C. TO PROVIDE (1) 20A/120V CIRCUIT FOR HCP AT THIS LOCATION. SERVICE TO SOURCE FROM RP-B.
- ◇ E.C. TO PROVIDE (1) 20A/120V CIRCUIT FOR HCP AT THIS LOCATION. SERVICE TO SOURCE FROM RP-B.
- ◇ AV TO INSTALL INTERCOM ANTENNA BELOW 1C BOX. E.C. TO PROVIDE BOX, CONDUIT AND CABLE.
- ◇ PROVIDE DMX GRIDIRON BOX AND 9700 SERIES GRIDIRON BOX IN ATTIC SPACE GRID ABOVE PANTOGRAPH. PROVIDE CONDUIT FROM 9700 SERIES GRIDIRON BOX TO APPROPRIATE RELAY PANEL (RP-x) AND PROVIDE CONDUIT FROM DMX GRIDIRON TO IDF8 AS REQUIRED.
- ◇ E.C. TO PROVIDE (1) 20A/120V CIRCUIT FROM RP-B TO ORCH. SHELL LIGHTS IN BOTH ORCH. SHELLS. COORDINATE INTEGRATION OF CIRCUIT WIRING WORK. SHELL MANUFACTURER.
- ◇ E.C. TO PROVIDE SEPARATE 150A FEEDS FROM EXISTING POWER SUPPLY TO EACH RP-x PANEL AT THIS LOCATION.
- ◇ E.C. TO PROVIDE 100A FEED FROM EXISTING POWER SUPPLY TO DR-x PANEL AT THIS LOCATION.
- ◇ E.C. TO PROVIDE 240V CIRCUIT ON BALCONY FACE FOR PRJ-1. COORDINATE OUTLET INSTALLATION HEIGHT IN FIELD.
- ◇ E.C. TO PROVIDE (3) 20A/120V CIRCUITS TO IDF9 AT THIS LOCATION. POWER SHOULD BE FED FROM EMERGENCY PANEL. COORDINATE EXACT LOCATION IN THE FIELD.
- ◇ EXISTING EQUIPMENT IN MDF ROOM IS TO REMAIN UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHOWN ON THIS PLAN IS NEW.
- ◇ ELECTRICAL CONTRACTOR SHALL REFER TO DRAWING TR201 AND TR701 FOR "JR CLANCY" MOTOR LIFT WIRING DIAGRAM. E.C. IS RESPONSIBLE FOR ALL WIRING AND MOTOR CONTROLLERS.
- ◇ REFER TO DETAILS ON DRAWING TA401 FOR PLATE AND AV DEVICE DETAILS.
- ◇ POWER FOR HOIST LOCATED IN ATTIC SPACE. REFER TO AV DRAWINGS TR201 AND TR301.

| ELECTRICAL SYMBOL LEGEND | | |
|--------------------------|--|---------------|
| SYMBOL | DESCRIPTION | MTG. HT. TO Q |
| S S3 | SINGLE POLE OR 3-WAY SWITCH-SPECIFICATION GRADE | 46" |
| S4 | FOUR WAY SWITCH-SPEC. GRADE | 46" |
| SK | KEY OPERATED SWITCH-SPEC. GRADE | 46" |
| SD | DIMMER SWITCH | 46" |
| SIR | IR SWITCH | 46" |
| SIRD | IR SWITCH DIMMABLE | 46" |
| SP | SWITCH WITH PILOT LIGHT | 46" |
| SM | MANUAL MOTOR STARTER SWITCH | 46" |
| OS | OCCUPANCY SENSOR | --- |
| PC | PHOTO CELL | --- |
| CS | CONTROL STATION | 46" |
| DS | DAYLIGHT SENSOR | --- |
| C | SPLIT WIRED RECEPTACLE C - DENOTES CONTROLLED VIA RELAY OR OCC SENSOR | 18" |
| WR | WATER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF WHILE IN USE COVER | 18" |
| Ⓛ | DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED | 18" |
| Ⓛ | (2) DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED | 18" |
| Ⓛ | SPECIAL SINGLE RECEPTACLE | 18" |
| Ⓛ | SPECIAL OUTLET-CHARACTERISTICS AS NOTED ON PLANS | AS NOTED |
| ▽ | DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4"C. UP WALL TO CLG. SPACE CIRCLE AROUND SYMBOL= CEILING MOUNTED | 18" |
| ▽ | TV OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4"C. UP WALL TO CLG. SPACE CIRCLE AROUND SYMBOL= CEILING MOUNTED | 18" |
| ▽ | TELEPHONE OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4"C. UP WALL TO CLG. SPACE | 18" |
| ▽ | TELEPHONE/DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER 1-1/4"C. UP WALL TO CLG. SPACE | 18" |
| ◁WN | WIRELESS ROUTER | --- |
| Ⓛ | FLOOR BOX 2 RECEPT. 2 DATA. THOMAS & BETTS# 665-SC 1-1/4"C TO FLOORBOX FOR DATA | --- |
| Ⓛ | FLOOR BOX 1 RECEPT. 1 DATA. THOMAS & BETTS# 664-SC 1-1/4"C TO FLOORBOX FOR DATA | --- |
| TV | JUNCTION BOX - HUBBELL NSAV2M WITH RECEPTACLE KIT HUBBELL NSOKP. PROVIDE CONNECTOR PLATE FOR AV | AS NOTED |
| Ⓛ | JUNCTION BOX 4" SQ. BOX W/ 2 GANG RAISED COVER 1"C. UP WALL TO CLG. SPACE UNLESS OTHERWISE NOTED | AS NOTED |
| Ⓛ | POWER POLE - SEE DRAWING FOR POWER - POWER/DATA SPECIFICATIONS | --- |
| M | ELECTRIC UTILITY METER | --- |
| F | FUSED DISCONNECT SWITCH - FDS-HEAVY DUTY | 46" |
| Ⓛ | NON-FUSED DISCONNECT SWITCH - NFS-HEAVY DUTY | 46" |
| P | SW. AND PLUG FUSE HOLDER- BUSSMANN "SSU" & FUSESTAT FUSE | AT EQUIP. |
| Ⓛ | MAGNETIC MOTOR STARTER-MS | 46" |
| Ⓛ | COMBINATION MAG. STARTER/ FUSED DISC. SWITCH - CSIFDS | 46" |
| Ⓛ | COMBINATION MAG. STARTER/NON-FUSED DISC. SWITCH - CSNFD | 46" |
| VFD | VARIABLE FREQUENCY DRIVE | --- |
| Ⓛ | SINGLE PHASE ELECTRIC MOTOR | --- |
| Ⓛ | THREE PHASE ELECTRIC MOTOR | --- |
| Ⓛ | SURFACE OR FLUSH MTD. BRANCH CIRCUIT PANELBOARD | 72" TO TOP |
| Ⓛ | TRANSFORMER | --- |
| Ⓛ | PUSH BUTTON | 46" |
| Ⓛ | THERMOSTAT - E.C. TO ROUGH-IN SINGLE GANG BOX AND 1/2"C. TO ACCESSIBLE CEILING SPACE | 46" |
| Ⓛ | HUMIDISTAT. E.C. TO ROUGH-IN SINGLE GANG BOX AND 1/2"C. TO ACCESSIBLE CEILING SPACE | 46" |
| Ⓛ | RECESSED DOWNLIGHT LUMINAIRE | --- |
| Ⓛ | RECESSED WALLWASH LUMINAIRE | --- |
| Ⓛ | SURFACE LUMINAIRE | --- |
| Ⓛ | PENDANT LUMINAIRE | --- |
| Ⓛ | WALL MOUNTED LUMINAIRE | --- |
| Ⓛ | SITE LIGHTING LUMINAIRE | --- |
| Ⓛ | NIGHT LIGHT | --- |
| Ⓛ | STRIP LUMINAIRE | --- |
| Ⓛ | LED ACCENT/UNDER CABINET LUMINAIRE | --- |
| Ⓛ | RECESSED LUMINAIRE 2x4' OR 2'x2' | --- |
| Ⓛ | SURFACE LUMINAIRE 2'x4' OR 2'x2' | --- |
| Ⓛ | TRACK LIGHTING LUMINAIRE | --- |
| Ⓛ | PARTIALLY SHADED LUMINAIRE OR WITH "E" SUFFIX ARE EMERGENCY | --- |
| Ⓛ | EXIT SIGN - WALL MOUNTED OR CEILING MOUNTED ARROWS INDICATE PATH OF EGRESS | --- |
| Ⓛ | REMOTE EMERGENCY HEAD | --- |
| Ⓛ | BATTERY EMERGENCY LUMINAIRE | --- |

SYMBOL NOTES:
 1. "AC" DENOTES ABOVE COUNTER. COORDINATE HEIGHT WITH ARCHITECT.
 2. "H" DENOTES HORIZONTAL MOUNTING OF DEVICE.
 3. "B" DENOTES MOUNTED IN BASE.
 4. "F" DENOTES MOUNTED IN FACE OF CABINETS.

| SYSTEMS SYMBOL LEGEND | | |
|-----------------------|---|---------------|
| SYMBOL | DESCRIPTION | MTG. HT. TO Q |
| F | FIRE ALARM PULL STATION | 46" |
| Ⓛ | FIRE ALARM HORN/STROBE LIGHT (WP-DENOTES WEATHER PROOF) | 80" |
| Ⓛ | AREA SMOKE DETECTOR-PHOTOELECTRIC | --- |
| Ⓛ | SPEAKER/STROBE LIGHT | --- |
| Ⓛ | SMOKE/HORN BASE CO-DENOTES COMBO CARBON MONOXIDE/SMOKE | --- |

F.A. NOTES:
 1. E.C. TO PROVIDE CONNECTION TO ALL DUCT DETECTORS WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. COORDINATE QUANTITY AND LOCATIONS WITH MECHANICAL CONTRACTOR SCHEDULES. REVIEWING ALL CFM REQUIREMENTS. PROVIDE DUCT DETECTORS IF NOT NOTED TO BE PROVIDED BY M.C.
 2. E.C. TO PROVIDE CONNECTIONS TO ALL FLOW AND TAMPER SWITCHES WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. COORDINATE QUANTITY AND LOCATIONS WITH FIRE PROTECTION DRAWINGS AND/OR DESIGN BUILD CONTRACTOR.
 3. E.C. TO PROVIDE EMERGENCY POWER TO FIRE ALARM BOOSTER POWER SUPPLIES WHEN EMERGENCY POWER SYSTEM IS AVAILABLE.



A.1
E1.00
N.T.S.
ELECTRICAL IDENTIFICATION

ELECTRICAL SPECIFICATIONS

26-0500 GENERAL PROVISIONS

- FURNISH AND INSTALL FIRST-CLASS WORKING SYSTEMS, TESTED AND READY FOR OPERATION. COMPLETE WITH LABOR AND MATERIALS (U.L. APPROVED COMMERCIAL GRADE). CONFORM TO DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. USE PROPER NEMA RATED EQUIPMENT (i.e. "3R" WEATHERPROOF, "1" GENERAL DUTY, ETC.)
- COORDINATE WITH THE DRAWINGS AND SPECIFICATIONS OF THE OTHER TRADES AND WITH THE OWNER.
- FIELD VERIFICATION OF ALL DIMENSIONS ARE REQUIRED, EXACT LOCATIONS, DISTANCES, AND LEVELS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS.
- COMPLY WITH THE NATIONAL ELECTRICAL CODE, PLUS LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK; ANY FEES IN CONNECTION THEREWITH ARE TO BE PAID BY ELECTRICAL CONTRACTOR.
- COMPLETE REQUIRED DEMOLITION, MAINTAINING OPERATION OF EXISTING TO REMAIN (COORDINATE WITH GC REGARDING ANY PHASING OF THE PROJECT) REWIRE EXISTING CIRCUITS IF REQUIRED.
- WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

TESTING

- WORK REQUIRED UNDER THIS HEADING SHALL BE BY THE ELECTRICAL CONTRACTOR (OR AS NOTED) AND INCLUDES ALL SUPERVISION, LABOR, MATERIALS, INSTRUMENTATION AND EQUIPMENT NECESSARY TO EFFECTIVELY TEST, MEASURE AND VERIFY THE PERFORMANCE OF THE ELECTRICAL EQUIPMENT SYSTEMS.

26-0 529, 26-0533, 260534 RACEWAY, BOXES, AND FITTINGS

- ALL WIRING SHALL BE RUN IN CONCEALED EMT (THINWALL) CONDUIT IN THE FINISHED AREAS OF THE BUILDING. CONDUIT MAY BE EXPOSED IN EQUIPMENT ROOMS OR OVERHEAD IN ROOMS WITHOUT CEILINGS. CONDUITS EXPOSED TO WEATHER TO BE RIGID (RIGID GALVANIZED CONDUIT), MC CABLE ALLOWED IN AREAS ALLOWED PER NATIONAL ELECTRICAL CODE AND NOT SUBJECT TO DAMAGE.
- HORIZONTAL AND VERTICAL CONDUIT RUNS MAY BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, CLAMP-BACKS OR OTHER APPROVED DEVICES.
- CONDUITS SHALL NOT BE RUN IN NOR SUPPORTED FROM DUCTWORK.

26-0219 CONDUCTORS

ALL CONDUCTORS SHALL BE NEW. ALL CONDUCTORS FOR POWER AND LIGHTING SYSTEMS WIRING SHALL BE 98% CONDUCTIVITY COPPER TYPE THHN OR THW. ALUMINUM IS TO BE IS PERMITTED FOR SERVICE ENTRANCE AND PANEL FEEDS. BRANCH CIRCUIT WIRING SHALL BE COPPER.

26-2736 WIRING DEVICES

- CONVENIENCE OUTLETS SHALL BE SPECIFICATION GRADE, RATED AT 20 AMPERE, GROUNDING TYPE, 125 VOLT, AND BEAR U.L. LABEL OF APPROVAL. STAINLESS STEEL COVER PLATES, MANUFACTURERS: PASS AND SEYMOUR CATALOG 5251-1, OR EQUAL BY HUBBELL, AND LEVITON.
- ALL SWITCHES FOR LIGHTING SHALL BE SPECIFICATION GRADE RATED AT 20 AMPERE, 120/277 VOLTS. PASS AND SEYMOUR CATALOG 20AC-1 OR EQUAL BY HUBBELL, AND LEVITON.

16350 GROUNDING

- INSTALL COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- INSTALL BONDING WIRE IN NONMETALLIC AND FLEXIBLE CONDUIT CONNECTED AT SOURCE END TO PANELBOARD EQUIPMENT GROUND BAR AND AT LOAD END TO ENCLOSURE.
- EXTEND COMPLETE BUILDING GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. INCLUDE INSULATED GROUND FOR ALL EXTERIOR AS WELL AS TOILET CIRCUITS.

26-2416-PANELBOARDS

- MANUFACTURERS: EATON, SQUARE D OR SIEMENS
- PROVIDE LINE STYLE PANELBOARDS. STANDARD LOAD CENTER PANELS NOT ALLOWED.
- RATED 277/480V AND 120/208V 3 PHASE 4 WIRE.
- INDOOR ENCLOSURE TO BE STEEL, NEMA 250, TYPE 1.
- FRONT: SECURED TO BOX WITH CONCEALED TRIM CLAMPS, FOR SURFACE MOUNT FRONTS, MATCH BOX DIMENSIONS; FOR FLUSH MOUNTED FRONTS, OVERLAP BOX.
- HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER
- DIRECTORY CARD: INSIDE PANELBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER. AT COMPLETION OF PROJECT TYPED FINAL SCHEDULE TO BE INSTALLED.
- PHASE NEUTRAL AND GROUND BUS TO BE HARD DRAWN COPPER 98% CONDUCTIVITY.
- LOAD TERMINALS ARE TO BE INSULATED, RIGIDLY BRACED.
- NEUTRAL BUSES TO BE 100% OF AMPACITY OF PHASE BUSES.
- PANELBOARD SHORT CIRCUIT RATING FOR SERIES CONNECTED SYSTEM WITH INTEGRAL REMOTE UPSTREAM OVERCURRENT PROTECTIVE DEVICES.
- PROVIDE 2 SETS OF KEYS PER PANEL.

26-2200 DRY TYPE TRANSFORMERS

- FURNISH AND INSTALL ALL TRANSFORMERS TO STANDARD AND CONFORM TO NFP70 AND NEMA ST 20 AND SHALL BE OF THE TYPE AND SIZE AS SHOWN ON THE DRAWINGS. CASE TEMPERATURE NOT TO EXCEED 36 DEGREES C RISE ABOVE AMBIENT AT WARMEST POINT. ALUMINUM WINDINGS ALLOWED.
- ALL TRANSFORMERS SHALL BE OF THE SAME MANUFACTURER AND SHALL BE FACTORY ASSEMBLED.
- 15-45KVA SHALL BE ALLOWED TO BE WALL MOUNTED, TRANSFORMERS 75KVA AND LARGER SHALL BE FLOOR MOUNTED.

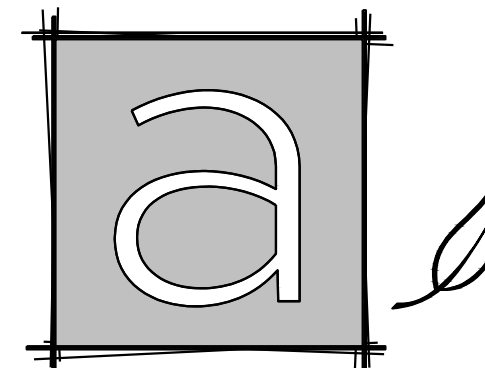
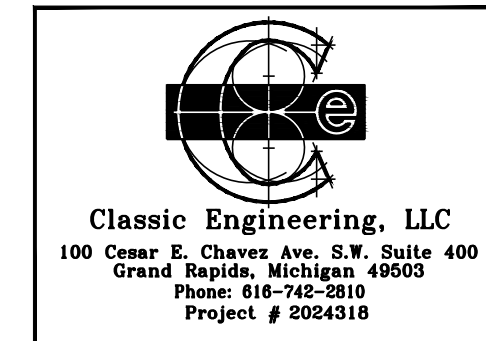
- PROVIDE GROUNDING AND BONDING IN ACCORDANCE WITH NEC.

26-5113 LIGHTING

- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL FIXTURES WITH LAMPS, AS SHOWN ON THE DRAWINGS AND AS LISTED IN THE FIXTURE LEGEND. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADEQUATE SUPPORTING FACILITIES FOR THE LIGHTING SYSTEM.
- WHERE RECESSED FIXTURES ARE INSTALLED IN CEILINGS FINISHED IN ACOUSTICAL TILE PATTERNS OR LAYOUTS, THE ELECTRICAL CONTRACTOR SHALL WORK IN COOPERATION WITH THE CEILING SUPPLIERS IN LOCATING AND FRAMING FIXTURES.
- EXIT LIGHT FIXTURES SHALL BE SUITABLE FOR WALL, CEILING FOR PENDANT MOUNTING AS INDICATED WITH STENCIL FACES AND ONE-EIGHTH INCH THICK RED (OR GREEN PER ARCHITECT OR OWNER) ACRYLIC PANELS, WITH LED LAMPS AND BATTERY PACKS SHOWN IN THE LIGHTING FIXTURE LEGEND.
- EMERGENCY LIGHTING REQUIREMENTS SHALL BE INSTALLED TO SATISFY THE RESPECTIVE CODES, INCLUDING INTERNATIONAL BUILDING CODE (i.e. 1FC AVERAGE, 0 FC MINIMUM AND 40:1 RATIO OF MAX TO MIN). PHOTOMETRICS, NOT PROVIDED ON THE BID DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE FINAL BID PROPOSAL - BY EC, SUPPLIER OR ENGINEER.

26-2816 CONTROLS

- COMPLETE CONTROLS FOR LIGHTING AND MECHANICAL EQUIPMENT, AS NOTED ON THE DRAWINGS. ALL LIGHTING CONTROLS SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE.
- APPROVED MANUFACTURERS: ACUITY COOPER, HUBBELL, AND LEVITON



architektura PLC
 PO Box 971
 Grand Haven, MI 49417
 p: 616.843.1002
 www.architekturapl.com

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
 Address

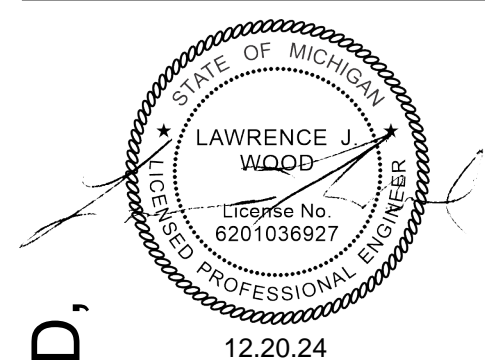


PROJECT NO. 1328
ISSUANCES

| | |
|-------------|----------------|
| 20 DEC 2024 | BIDS & PERMITS |
|-------------|----------------|

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|



DETAILS, SYMBOL LEGEND, SPECIFICATIONS

SCALE : NONE

E1.00

TYPICAL AMPERAGE/CONDUCTOR SIZES FOR ONE-LINE

| SERVICE FEEDERS (COPPER) | |
|----------------------------------|--------------------------------|
| 1 | 60A 4-#4-#10G, 1-1/4"C |
| 2 | 100A 4-#1-#8G, 1-1/2"C |
| 3 | 125A 4-#2-#6G, 2"C |
| 4 | 150A 4-#3-#6G, 2"C |
| 5 | 200A 4-#2-#6G, 2-1/2"C |
| 6 | 225A 4-#3-#6G, 3"C |
| 7 | 400A (2)4-#250kcmil, 2-1/2"C |
| 8 | 600A (2)4-#500kcmil, 3"C |
| 9 | 800A (3)4-#400kcmil, 3-1/2"C |
| 10 | 1200A (4)4-#500kcmil, 3-1/2"C |
| 11 | 1400A (5)4-#500kcmil, 3-1/2"C |
| 12 | 1600A (6)4-#400kcmil, 3"C |
| 13 | 2000A (7)4-#500kcmil, 3-1/2"C |
| 14 | 2500A (9)4-#500kcmil, 3-1/2"C |
| BRANCH FEEDERS - 3 WIRE (COPPER) | |
| 15 | 30A 3-#10-#10G, 3/4"C |
| 16 | 40A 3-#8-#10G, 3/4"C |
| 17 | 60A 3-#6-#10G, 3/4"C |
| 18 | 80A 3-#4-#8G, 3/4"C |
| 19 | 100A 3-#4-#8G, 1"C |
| 20 | 125A 3-#1-#8G, 1-1/2"C |
| 21 | 200A 3-#4-#4G, 2"C |
| 22 | 225A 3-#4-#4G, 2"C |
| BRANCH FEEDERS - 4 WIRE (COPPER) | |
| 23 | 60A 4-#6-#10G, 1"C |
| 24 | 100A 4-#3-#8G, 1-1/4"C |
| 25 | 125A 4-#1-#8G, 1-1/2"C |
| 26 | 150A 4-#1-#8G, 1-1/2"C |
| 27 | 175A 4-#2-#6G, 2"C |
| 28 | 200A 4-#4-#4G, 2-1/2"C |
| 29 | 250A 4-#2-#6G, 2-1/2"C |
| 30 | 400A 4-#600kcmil-#3G, 3-1/2"C |
| 31 | 600A (2)4-#350kcmil-#1G, 3"C |
| 32 | 800A (2)4-#500kcmil-1.0G, 3"C |
| 33 | 1200A (4)4-#350kcmil-3.0G, 3"C |

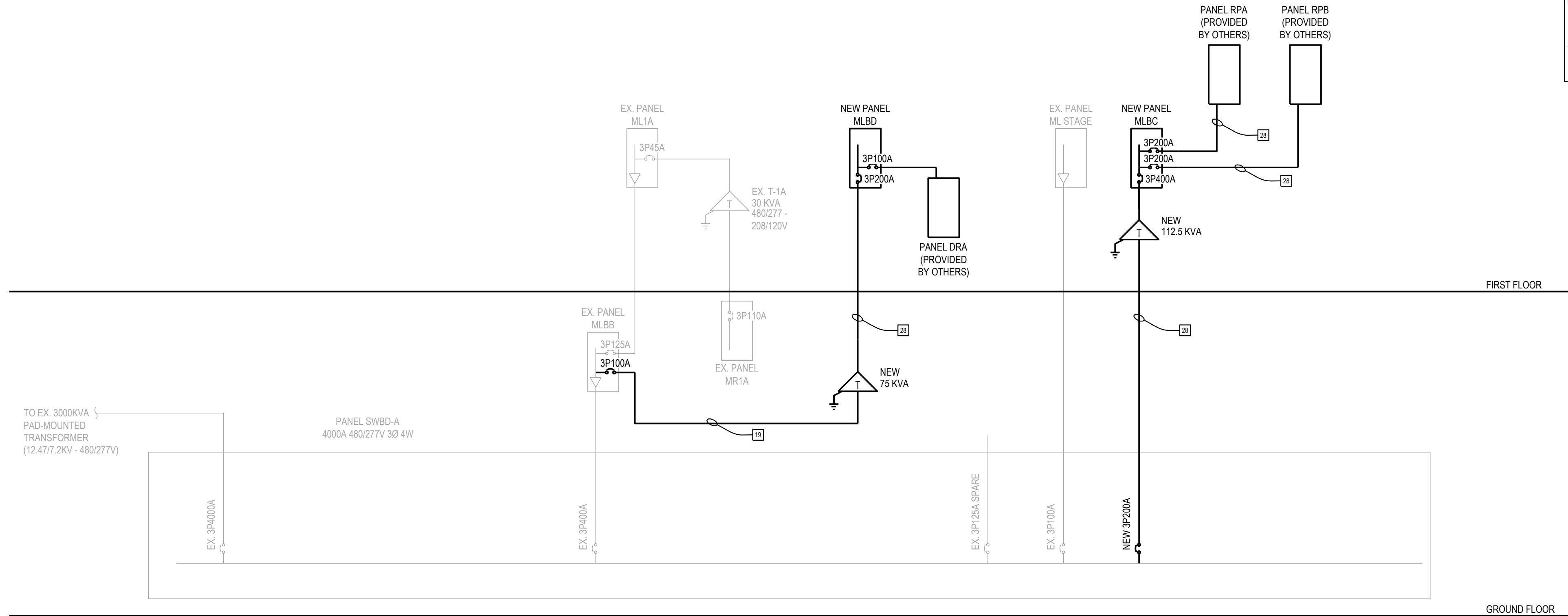
ONE-LINE DIAGRAM GENERAL NOTES

- REFER TO WIRE SIZING CHART. COPPER OR ALUMINUM MAY BE UTILIZED AT CONTRACTOR'S DISCRETION UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH TRADES ON SITE.
- PROVIDE HAZARD LABELS PER CODE MEETING ANSI Z535.4.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS (HEAVY DUTY) AND FUSES UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL EQUIPMENT FOR EXACT FUSE SIZES. PROVIDE 3 SPARE FUSES OF EACH SIZE TO BE TURNED OVER TO OWNER ALONG WITH A SPARE FUSE CABINET.
- ALL ELECTRIC MOTORS WILL BE FURNISHED AND INSTALLED BY OTHERS UNLESS OTHERWISE NOTED. ALL CONTROLS, STARTERS, ETC. USED TO CONTROL THESE MOTORS WILL BE PROVIDED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
- FIELD VERIFY EXISTING DISTRIBUTION IN LOWER LEVEL.
- DIMMER CONTROL PANELS DRA, RPA AND RPB TO BE PROVIDED BY AV CONTRACTOR. EC TO INSTALL. REFER TO DRAWINGS TL002, TL701 AND TR201. REFER TO ONE LINE FOR FEEDER REQUIREMENTS.

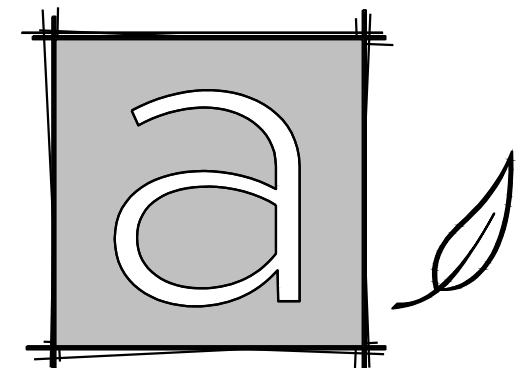
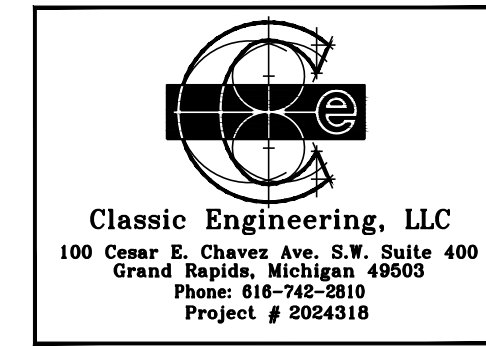
| CONDUCTOR AND CONDUIT SIZING | | | | | |
|------------------------------|--------------------------------------|--|---|---|---|
| MAX. OCCUP. | COPPER WIRE (3) COND + G DESCRIPTION | ALUMINUM WIRE (3) COND + G DESCRIPTION | COPPER WIRE (4) COND + G (LINEAR LOADS) DESCRIPTION | COPPER WIRE (4) COND + G** (NON-LINEAR LOADS) DESCRIPTION | ALUMINUM WIRE (4) COND + G** (NON-LINEAR LOADS) DESCRIPTION |
| 20 | 3#12, #12G, 1/2"C | | 4#12, #12G, 1/2"C | 4#12, #12G, 1/2"C | |
| 30 | 3#10, #10G, 3/4"C | | 4#10, #10G, 3/4"C | 4#8, #10G, 3/4"C | |
| 40 | 3#8, #10G, 3/4"C | | 4#8, #10G, 3/4"C | 4#8, #10G, 3/4"C | |
| 50 | 3#6, #10G, 3/4"C | | 4#6, #10G, 3/4"C | 4#6, #10G, 1"C | |
| 60 | 3#6, #10G, 1"C | | 4#6, #10G, 1"C | 4#4, #10G, 1-1/4"C | |
| 70 | 3#4, #8G, 1"C | | 4#4, #8G, 1-1/4"C | 4#3, #8G, 1-1/4"C | |
| 80 | 3#4, #8G, 1-1/4"C | | 4#4, #8G, 1-1/4"C | 4#3, #8G, 1-1/4"C | |
| 90 | 3#3, #8G, 1-1/4"C | | 4#3, #8G, 1-1/4"C | 4#2, #8G, 1-1/4"C | |
| 100 | 3#3, #8G, 1-1/4"C | 3-#1, #6G, 1-1/4"C | 4#3, #8G, 1-1/4"C | 4#1, #8G, 1-1/2"C | 4-2-0, #6G, 2-1/2"C |
| 110 | 3#2, #6G, 1-1/4"C | | 4#2, #6G, 1-1/4"C | 4-1-0, #6G, 1-1/2"C | 4-3-0, #4G, 2-1/2"C |
| 125 | 3#1, #6G, 1-1/2"C | | 4#1, #6G, 1-1/2"C | 4-2-0, #6G, 2"C | 4-3-0, #4G, 2-1/2"C |
| 150 | 3-1-0, #6G, 1-1/2"C | 3-3-0, #4G, 2"C | 4-1-0, #6G, 1-1/2"C | 4-3-0, #6G, 2"C | 4-4-0, #6G, 2-1/2"C |
| 175 | 3-2-0, #6G, 2"C | | 4-2-0, #6G, 2"C | 4-4-0, #6G, 2-1/2"C | 4-3-0kcmil, #4G, 3"C |
| 200 | 3-4-0, #4G, 2"C | 3-250kcmil, #2G, 2-1/2"C | 4-4-0, #4G, 2-1/2"C | 4-250kcmil, #4G, 2-1/2"C | 4-350kcmil, #4G, 3"C |
| 225 | 3-4-0, #4G, 2"C | 3-300kcmil, #2G, 3"C | 4-4-0, #4G, 2-1/2"C | 4-300kcmil, #4G, 3"C | 4-500kcmil, #2G, 3-1/2"C |
| 250 | 3-250kcmil, #4G, 2-1/2"C | 3-350kcmil, #2G, 3"C | 4-250kcmil, #4G, 2-1/2"C | 4-350kcmil, #4G, 3"C | 4-500kcmil, #2G, 3-1/2"C |
| 300 | 3-350kcmil, #4G, 3"C | 3-500kcmil, #1G, 3-1/2"C | 4-350kcmil, #4G, 3"C | 4-500kcmil, #4G, 3-1/2"C | 4-700kcmil, #1G, 4"C |
| 350 | 3-500kcmil, #3G, 3"C | 3-700kcmil, #1G, 4"C | 4-350kcmil, #3G, 3-1/2"C | (2) 4-4-0, #3G, 2-1/2"C | (2) 4-300kcmil, #1G, 3"C |
| 400 | 3-600kcmil, #3G, 3"C | (2) 3-250kcmil, #1G, 2-1/2"C | 4-600kcmil, #3G, 3-1/2"C | (2) 4-250kcmil, #3G, 2-1/2"C | (2) 4-350kcmil, #1G, 3"C |
| 500 | (2) 3-250kcmil, #2G, 2-1/2"C | (2) 3-350kcmil, 1.0G, 3"C | (2) 4-250, #2G, 2-1/2"C | (2) 4-350kcmil, #2G, 2-1/2"C | (2) 4-500kcmil, 1.0G, 3-1/2"C |
| 600 | (2) 3-350kcmil, #1G, 3"C | (2) 3-500kcmil, 2.0G, 3"C | (2) 4-350kcmil, #1G, 3"C | (2) 4-500kcmil, #1G, 3"C | (2) 4-700kcmil, 2.0G, 4"C |
| 700 | (2) 3-500kcmil, 1.0G, 3"C | (2) 3-700kcmil, 3.0G, 4"C | (2) 4-500kcmil, 1.0G, 3"C | (3) 4-350kcmil, 1.0G, 3"C | (3) 4-500kcmil, 3.0G, 3-1/2"C |
| 800 | (2) 3-600kcmil, 1.0G, 4"C | (3) 3-400kcmil, 3.0G, 3"C | (2) 4-600kcmil, 1.0G, 4"C | (3) 4-400kcmil, 1.0G, 3"C | (3) 4-600kcmil, 3.0G, 4"C |
| 1000 | (3) 3-500kcmil, 2.0G, 3"C | (3) 3-600kcmil, 4.0G, 3-1/2"C | (3) 4-500kcmil, 2.0G, 3-1/2"C | (4) 4-350kcmil, 2.0G, 3-1/2"C | (4) 4-600kcmil, 4.0G, 4"C |
| 1200 | (4) 3-350kcmil, 3.0G, 3"C | (4) 3-500kcmil, 250kcmil G, 3-1/2"C | (4) 4-350kcmil, 3.0G, 3"C | (4) 4-500kcmil, 3.0G, 3-1/2"C | (4) 4-750kcmil, 250kcmil G, 4"C |
| 1400 | (4) 3-500kcmil, 4.0G, 3"C | (4) 3-700kcmil, 350kcmil G, 3-1/2"C | (4) 4-500kcmil, 4.0G, 3-1/2"C | (5) 4-500kcmil, 4.0G, 3-1/2"C | (5) 4-700kcmil, 350kcmil G, 4"C |
| 1600 | (4) 3-600kcmil, 4.0G, 4"C | (5) 3-600kcmil, 350kcmil G, 3-1/2"C | (4) 4-600kcmil, 4.0G, 4"C | (6) 4-400kcmil, 4.0G, 3"C | (6) 4-600kcmil, 350kcmil G, 4"C |
| 2000 | (5) 3-600kcmil, 250kcmil G, 4"C | (6) 3-600kcmil, 400kcmil G, 3-1/2"C | (5) 4-600kcmil, 250kcmil G, 4"C | (7) 4-500kcmil, 250kcmil G, 3-1/2"C | (7) 4-700kcmil, 400kcmil G, 4"C |
| 2500 | (7) 3-500kcmil, 350kcmil G, 3-1/2"C | (7) 3-750kcmil, 600kcmil G, 4"C | (7) 4-500kcmil, 350kcmil G, 3-1/2"C | (9) 4-500kcmil, 350kcmil G, 3-1/2"C | (9) 4-700kcmil, 600kcmil G, 4"C |
| 3000 | (8) 3-600kcmil, 400kcmil G, 3-1/2"C | (8) 3-700kcmil, 800kcmil G, 4"C | (8) 4-600kcmil, 400kcmil G, 3-1/2"C | (9) 4-750kcmil, 400kcmil G, 5"C | (10) 4-700kcmil, 800kcmil G, 4"C |
| 4000 | (9) 3-750kcmil, 500kcmil G, 5"C | (11) 3-700kcmil, 750kcmil G, 4"C | (9) 4-750kcmil, 500kcmil G, 5"C | (12) 4-600kcmil, 500kcmil G, 4"C | (14) 4-700kcmil, 750kcmil G, 4"C |

NOTES: AMPACITY: THHN/THWN, 75 DEG. RATING NEC: 2023
 **CONDUCTOR AMPACITY REDUCED TO 80% PER NEC AMPACITY TABLE 310.15(B)(3)(a) ASSUMING NONLINEAR LOADS. THE NEUTRAL SHALL BE CONSIDERED TO BE A CURRENT-CARRYING CONDUCTOR. CONDUIT SIZE BASED ON EMT. E.C. RESPONSIBLE FOR SIZE CHANGES WHEN DIFFERENT TYPE OF CONDUIT IS USED.
 NOTE: LIGHTING LOADS ARE CONSIDERED NON-LINEAR. THEREFORE MOST PANELS ARE NON-LINEAR

| BUILDING ELECTRICAL LOAD CALCULATIONS | |
|---|----------|
| MAXIMUM DEMAND LOAD ON EXISTING MDP: | 216 KVA |
| REMOVED LOAD: | 45 KVA |
| ADDED LOAD: | 69 KVA |
| TOTAL BUILDING ELECTRICAL LOAD PER NEC 220.87 - | |
| 240KW X 1.25+2394 KW = | 2694 KVA |
| 2694 KW X 1000 / 480 / 1.732 = | 3244 A |



PARTIAL EXISTING 277/480V- 3Ø-4W ONE LINE
 NOT TO SCALE



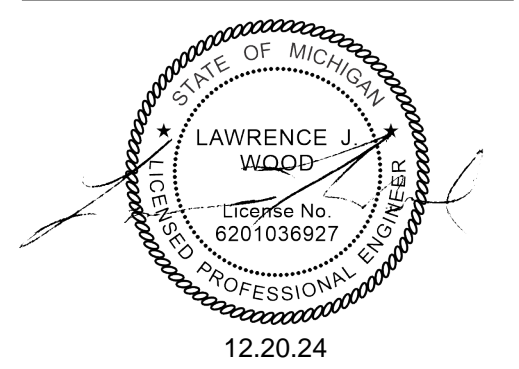
architektura PLC
 PO Box 971
 Grand Haven, MI 49417
 p: 616.843.1002
 www.architekturapl.com

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
 Address



PROJECT NO. 1328
ISSUANCES
 20 DEC 2024 BIDS & PERMITS

REVISIONS
 NO. DATE DESCRIPTION



ONE-LINE DIAGRAM

SCALE: NONE

E2.00

P:\2024\202404318 Innovation Central Auditorium\Working Drawings\2024\318 E2.dwg, 12/20/2024, 2:29:17 PM, cll

THIS DOCUMENT HAS BEEN PREPARED BY ARCHITECTURA PLC AS AN INSTRUMENT OF SERVICE, AND ARCHITECTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN.



COMcheck Software Version 4.1.5.3
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
 Project Title:
 Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

| A Area Category | B Floor Area (ft2) | C Allowed Watts / ft2 | D Allowed Watts (B X C) |
|---|--------------------------|-----------------------------|-------------------------------|
| 1-Performing Arts Theater/Audience/Seating Area | 5632 | 2.03 | 11433 |
| 2-Religious Buildings/Worship Pulpit, Choir | 2964 | 1.53 | 4535 |
| 3-Common Space Types:Electrical/Mechanical | 120 | 0.43 | 52 |
| 4-Common Space Types:Office - Enclosed | 112 | 0.93 | 104 |
| 5-Performing Arts Theater/Audience/Seating Area | 2706 | 2.03 | 5493 |
| Total Allowed Watts = 21617 | | | |

Proposed Interior Lighting Power

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixtures | D Fixture Watt. | E (C X D) |
|---|------------------------|-----------------------|-----------------------|--------------|
| 1-Performing Arts Theater/Audience/Seating Area | | | | |
| LED 2: Other: | 1 | 32 | 58 | 1856 |
| LED 3: LED PAR 10W: | 1 | 16 | 9 | 144 |
| 2-Religious Buildings/Worship Pulpit, Choir | | | | |
| LED 4: Other: | 1 | 6 | 100 | 600 |
| LED 5: LED PAR 15W: | 1 | 9 | 15 | 135 |
| LED 6: LED Other Fixture Unit 60W: | 1 | 2 | 52 | 104 |
| LED 7: LED Other Fixture Unit 60W: | 1 | 6 | 60 | 360 |
| 3-Common Space Types:Electrical/Mechanical | | | | |
| LED 8: LED Linear 33W: | 1 | 1 | 41 | 41 |
| LED 10: LED PAR 10W: | 1 | 2 | 9 | 18 |
| 4-Common Space Types:Office - Enclosed | | | | |
| LED 9: LED Linear 33W: | 1 | 1 | 41 | 41 |
| 5-Performing Arts Theater/Audience/Seating Area | | | | |
| LED 1: LED PAR 15W: | 1 | 48 | 15 | 720 |
| Total Proposed Watts = 4019 | | | | |

Project Title: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Report date: 11/22/24
 Data filename: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Page 1 of 6
 Innovation.cck

Interior Lighting PASSES: Design 81% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Report date: 11/22/24
 Data filename: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Page 2 of 6
 Innovation.cck



COMcheck Software Version 4.1.5.3
Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 100.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID | Plan Review | Complies? | Comments/Assumptions |
|---|---|--|--------------------------|
| 4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ² | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 4.2.2, 9.4.3, 9.7 [PR4] ¹ | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Report date: 11/22/24
 Data filename: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Page 3 of 6
 Innovation.cck

| Section # & Req.ID | Rough-In Electrical Inspection | Complies? | Comments/Assumptions |
|------------------------------|---|--|--------------------------|
| 8.4.2 [EL10] ² | At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 8.4.3 [EL11] ² | New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to control system and displayed graphically. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 9.4.1.1 [EL1] ² | Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as "REQ") and optional choice controls (labeled as "ADD1" and "ADD2") are implemented. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 9.4.1.1 [EL2] ² | Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 9.4.1.1f [EL13] ¹ | Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 9.4.1.3 [EL4] ¹ | Separate lighting control devices for specific uses installed per approved lighting plans. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 9.6.2 [EL8] ¹ | Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

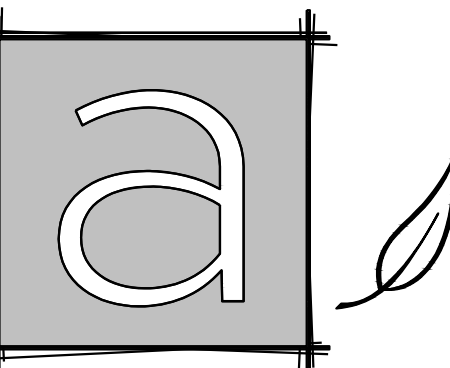
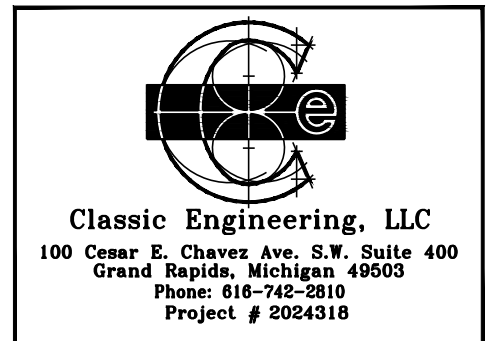
Project Title: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Report date: 11/22/24
 Data filename: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Page 4 of 6
 Innovation.cck

| Section # & Req.ID | Final Inspection | Complies? | Comments/Assumptions |
|----------------------------|---|--|--|
| 8.7.1 [F16] ¹ | Furnished as-built drawings for electric power systems within 30 days of system acceptance. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 8.7.2 [F17] ² | Furnished O&M instructions for systems and equipment to the building owner or designated representative. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| 9.2.2.3 [F18] ¹ | Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Interior Lighting fixture schedule for values. |
| 9.4.4 [F20] ¹ | At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Report date: 11/22/24
 Data filename: P:\2024\2024318 Innovation Central Auditorium\Electrical\Comcheck General Lighting Page 5 of 6
 Innovation.cck



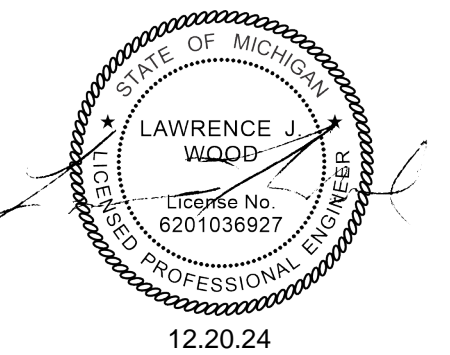
architektura PLC
 PO Box 971
 Grand Haven, MI 49417
 p: 616.843.1002
 www.architekturapl.com

NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
 Address



PROJECT NO. 1328
ISSUANCES
 20 DEC 2024 BIDS & PERMITS

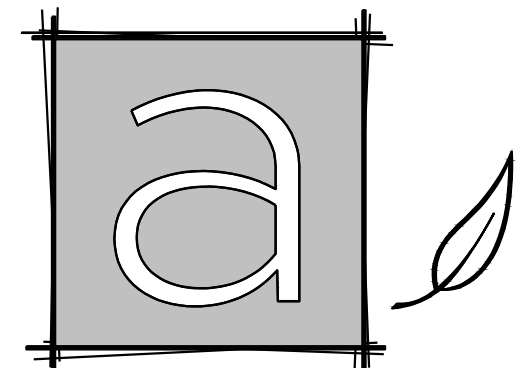
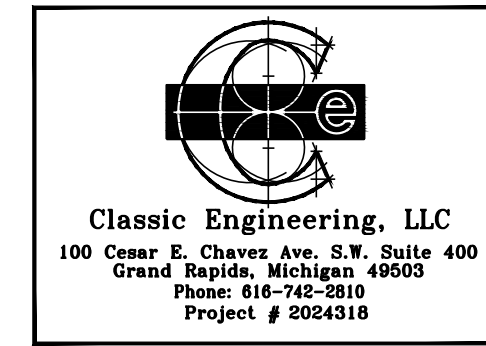
REVISIONS
 NO. DATE DESCRIPTION



COMCHECK

SCALE: NONE

E4.00



architektura^{PLC}
PO Box 971
Grand Haven, MI 49417
p: 616.843.1002
www.architekturapl.com



NEW SOUND BOOTH - INNOVATION CENTRAL HIGH SCHOOL
GRAND RAPIDS PUBLIC SCHOOLS
Address

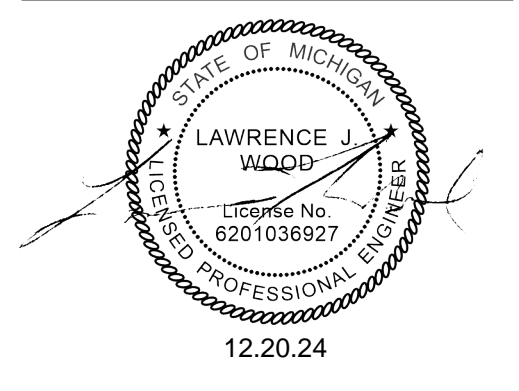
PROJECT NO. 1328

ISSUANCES

| | |
|-------------|----------------|
| 20 DEC 2024 | BIDS & PERMITS |
|-------------|----------------|

REVISIONS

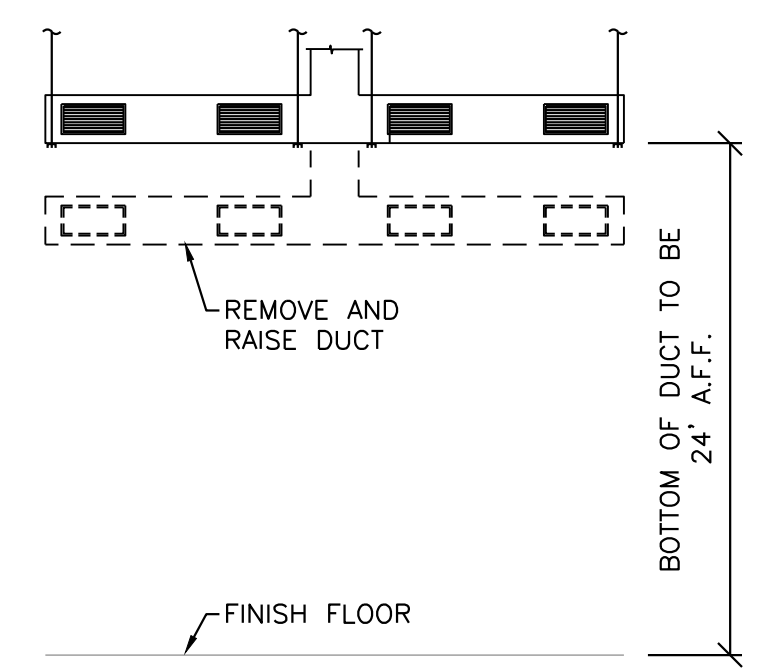
| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|



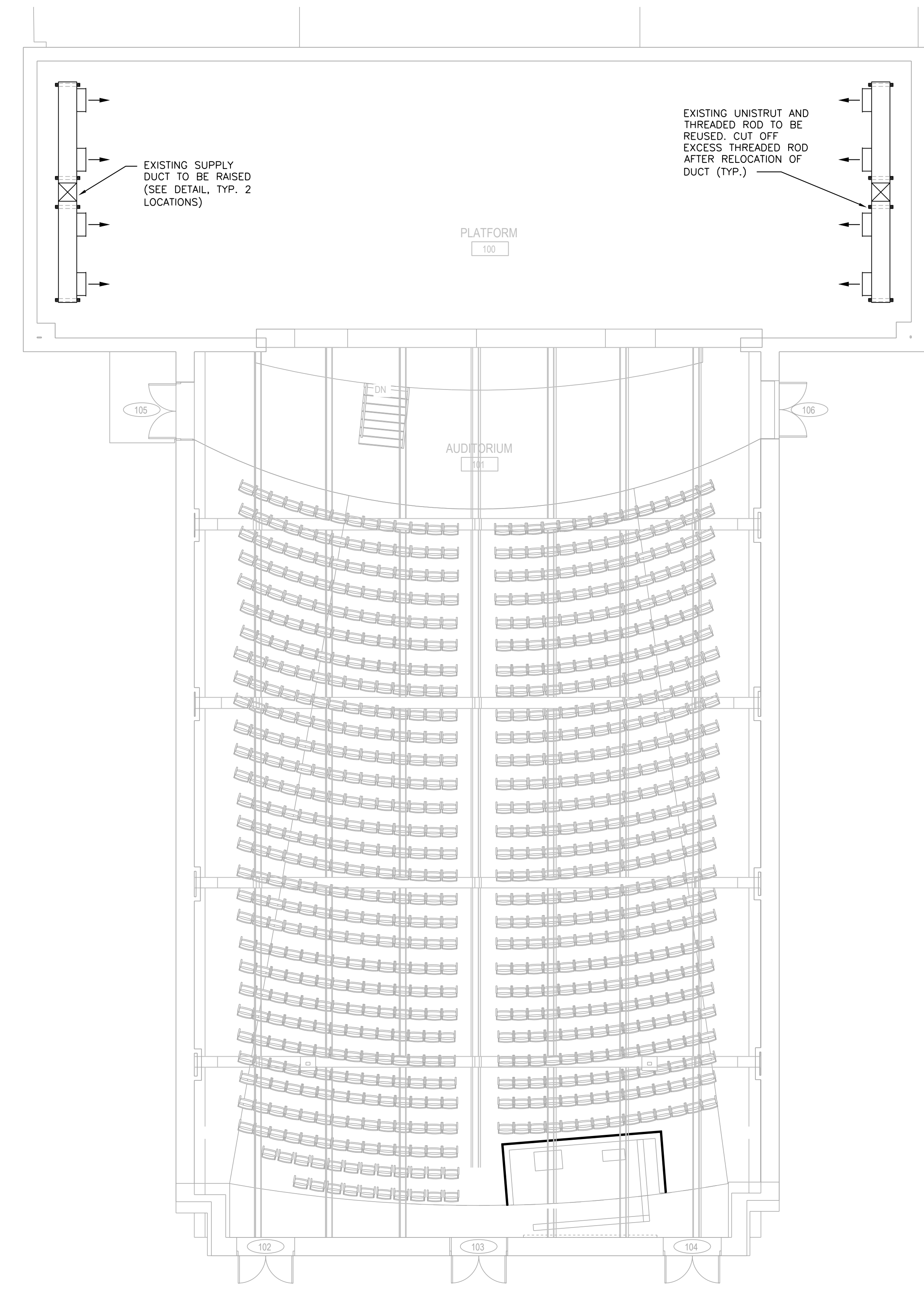
FLOOR PLANS -
MECHANICAL

SCALE :
As indicated

M-1



ELEVATION VIEW
SCALE: NONE



FIRST FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

THIS DOCUMENT HAS BEEN PREPARED BY ARCHITEKTURA PLC AS AN INSTRUMENT OF SERVICE, AND ARCHITEKTURA PLC SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN.