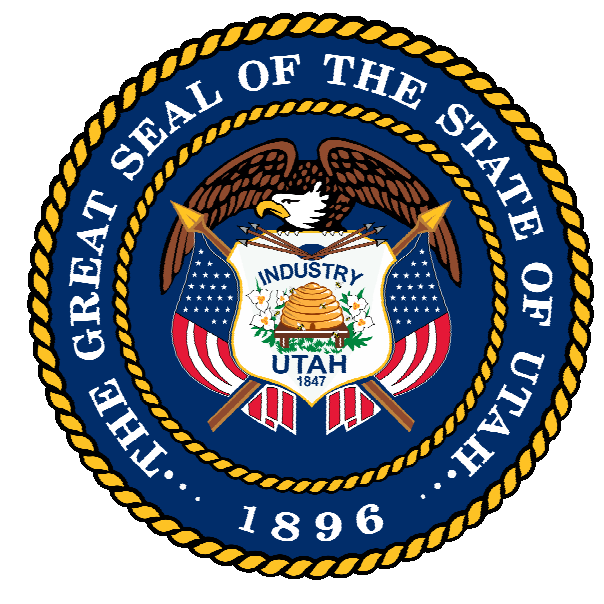


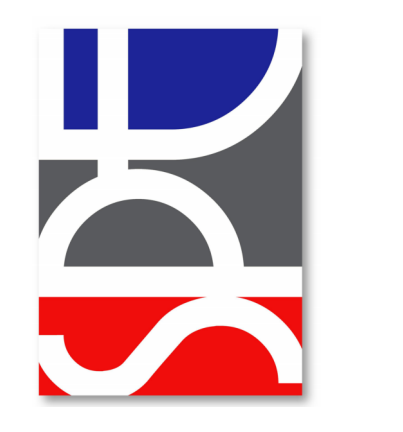
# BRIDGERLAND TECHNICAL COLLEGE TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

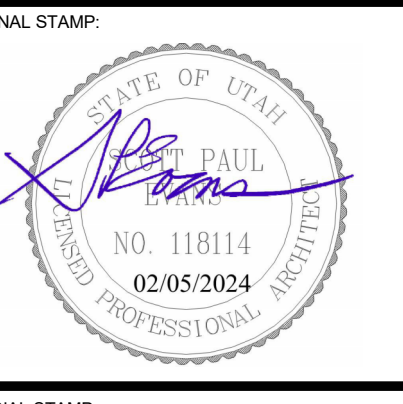
MARCH 20, 2024  
CONFORMING SET



STATE OF UTAH  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT  
4315 South 2700 West, Floor 3 | Taylorsville, UT 84129 / www.dfcu.utah.gov  
DFCM PROJECT NO. 24139210



SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1369  
info@spe-architect.com  
www.spe-architect.com



PROJECT NAME:  
BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL  
940 WEST 1400 NORTH  
LOGAN, UTAH 84321

REVISIONS

| NO. | DATE     | DESCRIPTION    |
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SPE PROJECT #: 22-38  
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SHEET TITLE:  
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GI-001

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STRUCTURAL ENGINEER



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**WHW ENGINEERING INC**  
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**DRAWING INDEX**

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| AE-504                | DETAILS  |
| AE-505                | DETAILS  |
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| ME403                 | MECHANICAL LARGE SCALE PLANS                     |
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| PE102                 | ROOFTOP PLUMBING PLAN                            |
| PE401                 | PLUMBING LARGE SCALE PLANS                       |
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| PE501                 | PLUMBING DETAILS                                 |
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| <b>ELECTRICAL:</b>    |  |
| EG001                 | GENERAL NOTES AND SYMBOLS LIST                   |
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| ED103                 | LEVEL 1 - DEMOLITION LIGHTING - AREA "A"         |
| ED104                 | LEVEL 1 - DEMOLITION LIGHTING - AREA "B"         |
| ED105                 | ROOF - DEMOLITION - AREA "A"                     |
| ED106                 | ROOF - DEMOLITION - AREA "B"                     |
| ED701                 | ONE-LINE DIAGRAM - DEMO                          |
| EL101                 | LEVEL 1 - LIGHTING - AREA "A"                    |
| EL102                 | LEVEL 1 - LIGHTING - AREA "B"                    |
| EL401                 | ENLARGED VIEWS - LIGHTING                        |
| EL501                 | LIGHTING DETAILS - TYPICAL                       |
| EL502                 | DETAILS - LIGHTING WIRING DIAGRAM                |
| EL601                 | LIGHT FIXTURE SCHEDULE                           |
| EP101                 | LEVEL 1 - POWER - AREA "A"                       |
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| EP103                 | ROOF - POWER - AREA "A"                          |
| EP104                 | ROOF - POWER - AREA "B"                          |
| EP501                 | POWER DETAILS - TYPICAL                          |
| EP601                 | PANEL SCHEDULES                                  |
| EP701                 | ONE-LINE DIAGRAM - POWER                         |
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| EC102                 | LEVEL 1 - COMMUNICATION - AREA "B"               |
| EC501                 | RACK DETAILS AND CABLE SCHEDULES                 |
| EC502                 | TELECOM TYPICAL DETAILS                          |
| EC701                 | TELECOM RISER DIAGRAMS                           |
| EY101                 | CEILING PLAN - LEVEL 1 - SYSTEMS - AREA "A"      |
| EY102                 | CEILING PLAN - LEVEL 1 - SYSTEMS - AREA "B"      |
| EY501                 | SYSTEMS DETAILS - TYPICAL                        |
| EY502                 | ACCESS CONTROL DETAILS                           |
| EY701                 | FIRE RISER DIAGRAM HORN ALARM SYSTEM             |
| EA101                 | FLOOR PLAN - LEVEL 1 - AUDIO VISUAL - AREA "A"   |
| EA102                 | CEILING PLAN - LEVEL 1 - AUDIO VISUAL - AREA "A" |
| EA103                 | FLOOR PLAN - LEVEL 1 - AUDIO VISUAL - AREA "B"   |
| EA104                 | CEILING PLAN - LEVEL 1 - AUDIO VISUAL - AREA "B" |
| EA301                 | ENLARGED AV SECTIONS & ELEVATIONS                |
| EA501                 | ENLARGED AV DETAILS                              |
| EA701                 | AV RISERS & EQUIP. - LOBBY & CLASSROOMS          |
| EA702                 | AV RISERS & EQUIP. - CONFERENCE ROOMS            |

**ABBREVIATIONS**

|        |                      |          |                                     |       |                 |        |                               |
|--------|----------------------|----------|-------------------------------------|-------|-----------------|--------|-------------------------------|
| @      | at                   | EA       | each                                | JAN   | janitor         | RM     | room                          |
| ABV    | above                | EIFS     | exterior insulation & finish system | JST   | joist           | RO     | rough opening                 |
| ACOUS  | acoustical           | ELEC     | electrical                          | JT    | joint           | RTU    | roof top unit (mechanical)    |
| AD     | area drain           | ELEV     | elevation                           | LAM   | laminate        | S      | south                         |
| ADJ    | adjustable           | EMER     | emergency                           | LAV   | lavatory        | SABF   | sound attenuation fabric batt |
| AFF    | above finished floor | ENCL     | enclosure                           | LB(S) | pounds          | SC     | scupper                       |
| ALT    | alternate            | EOS      | edge of slab                        | LDG   | landing         | SCHED  | schedule                      |
| ALUM   | aluminum             | EQ       | equal                               | LT    | light           | SEAL   | sealant                       |
| APPROX | approximate          | EQUIP    | equipment                           | MAX   | maximum         | SECT   | section                       |
| ARCH   | architect            | ETR      | existing to remain                  | MECH  | mechanical      | SF     | square foot                   |
| B.O.   | bottom of            | EW       | each way                            | MEMB  | membrane        | SHT    | sheet                         |
| BALC   | balcony              | EWC      | electric water cooler               | MFR   | manufacturer    | MIN    | minimum                       |
| BD     | board                | EXP. JT. | expansion joint                     | MIN   | minimum         | MISC   | miscellaneous                 |
| BET    | between              | EXTG.    | existing                            | MO    | masonry opening | MTL    | metal                         |
| BLDG   | building             | F.O.     | face of                             | NTD   | mounted         | NTS    | not to scale                  |
| BLKG   | blocking             | FA       | fire alarm                          | NTS   | not to scale    | OP     | overflow pipe                 |
| BLW    | below                | FAP      | fire annunciator panel              | NTS   | not to scale    | OA     | overall                       |
| BM     | beam                 | FD       | fire alarm                          | NTS   | not to scale    | OC     | on center                     |
| BOT    | bottom               | FE       | fire extinguisher                   | NTS   | not to scale    | OD     | outside diameter              |
| BRKT   | bracket              | FE       | fire extinguisher cabinet           | NTS   | not to scale    | OFF    | office                        |
| BULKHD | bulthead             | FEC      | fire extinguisher cabinet           | NTS   | not to scale    | OH     | opposite hand                 |
| BUR    | built up roof        | FG       | finish group                        | NTS   | not to scale    | OPG    | opening                       |
| C.G.   | corner guard         | FH       | fire hydrant                        | NTS   | not to scale    | OPP    | opposite                      |
| CAB    | cabinet              | FHC      | fire hose cabinet                   | NTS   | not to scale    | QC     | general contractor            |
| CALK   | caulking             | FIN      | finish                              | NTS   | not to scale    | GL     | glass                         |
| CEM    | cement               | FLR      | floor                               | NTS   | not to scale    | GND    | ground                        |
| CER    | ceramic              | FRT      | fire retardant treated              | NTS   | not to scale    | GWB    | gypsum board                  |
| CJR    | control joint        | FT       | foot or feet                        | NTS   | not to scale    | GYP    | gypsum                        |
| CLS    | ceiling              | FUR      | furring                             | NTS   | not to scale    | H.W.H. | hot water heater              |
| CLOS   | closet               | FV       | field verify                        | NTS   | not to scale    | HC     | handicapped                   |
| CLR    | clear                | GC       | general contractor                  | NTS   | not to scale    | HDWD   | hardwood                      |
| CO     | cased opening        | GC       | general contractor                  | NTS   | not to scale    | HWWR   | hardware                      |
| COL    | column               | GL       | glass                               | NTS   | not to scale    | HM     | hollow metal                  |
| CONC   | concrete             | GND      | ground                              | NTS   | not to scale    | HORIZ  | horizontal                    |
| CONT   | continuous           | GWB      | gypsum board                        | NTS   | not to scale    | HR     | hour                          |
| CPT    | carpet               | GYP      | gypsum                              | NTS   | not to scale    | HT     | height                        |
| CT     | ceramic tile         | H.W.H.   | hot water heater                    | NTS   | not to scale    | ID     | inner diameter                |
| CTR    | center               | HC       | handicapped                         | NTS   | not to scale    | INCD   | incandescent                  |
| DBL    | double               | HDWD     | hardwood                            | NTS   | not to scale    | INSUL  | insulation                    |
| DET    | detail               | HWWR     | hardware                            | NTS   | not to scale    | INT    | interior                      |
| DIA    | diameter             | HM       | hollow metal                        | NTS   | not to scale    |        |                               |
| DIM    | dimension            | HORIZ    | horizontal                          | NTS   | not to scale    |        |                               |
| DN     | down                 | HR       | hour                                | NTS   | not to scale    |        |                               |
| DR     | door                 | HT       | height                              | NTS   | not to scale    |        |                               |
| DS     | down spout           | ID       | inner diameter                      | NTS   | not to scale    |        |                               |
| DW     | dishwasher           | INCD     | incandescent                        | NTS   | not to scale    |        |                               |
| DWG    | drawing              | INSUL    | insulation                          | NTS   | not to scale    |        |                               |
| Ø      | diameter             | INT      | interior                            | NTS   | not to scale    |        |                               |
| (E)    | existing             |          |                                     | NTS   | not to scale    |        |                               |
| E      | east                 |          |                                     | NTS   | not to scale    |        |                               |

**GENERAL NOTES**

- THE CONTRACTOR IS TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXTENT OF WORK AND COORDINATE ALL TRADES.
- ALL DIMENSIONS ARE TO BE FIELD VERIFIED - ANY VARIATIONS IN DIMENSIONS ARE TO BE REVIEWED WITH THE ARCHITECT.
- WHERE EXISTING WALLS ARE REMOVED PATCH REMAINING WALLS AS REQUIRED FOR FLUSH FINISHED APPEARANCE.
- THIS CONTRACTOR IS RESPONSIBLE FOR PATCHING/ REPAIRING ALL IMPERFECTIONS IN ALL NEW AND EXISTING WALLS AFFECTED BY THIS CONTRACT, INCLUDING HOLES, DENTS, BUMPS WAVES ETC. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE JOB SITE PRIOR TO BIDDING AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SUCH WORK, THAT WILL BE REQUIRED.
- CORRIDORS SHALL NOT BE USED FOR STORAGE OF MATERIALS OR STAGING OF THE WORK.
- PATCH AND REPAIR WALLS AT OUTLETS AND AT OTHER OPENINGS REQUIRED BY THIS REMODELING.
- GRID LINES ARE ORIGINAL BUILDING GRID LINES.
- PROTECT EXTG. FINISHES FROM DAMAGE.
- DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR DECISION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TOP/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTABLE WITHOUT A APPROVAL OF ARCHITECT UNLESS NOTED %.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE CONSTRUCTION OF THIS PROJECT. ITEMS LISTED IN DRAWINGS MAY NOT BE INCLUDED IN SPECIFICATIONS, ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.
- DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS TO PROVIDE DUST WALLS AS REQUIRED TO PERFORM NEW WORK - COORDINATE LOCATION OF DUST WALLS WITH OWNER.
- CONTRACTOR'S STAGING AREA IS TO BE PROVIDED WITH A SECURE LOCKED, 6'-0" (PER IBC 3008) TALL TEMPORARY CHAIN LINK FENCE. STAGING AREA SHALL NOT BLOCK DOORS, DOCKS, SIDEWALKS ETC. ALL GAPS IN FENCE TO BE MAINTAINED LESS THAN 4". REMOVE AND SECURE ALL LADDERS AT THE END OF EACH DAY. DUMPSTER MUST BE KEPT IN LOCKED FENCED AREA. COORDINATE LOCATION OF STAGING WITH OWNER.

**MATERIALS**

|  |                        |
|--|------------------------|
|  | EARTH                  |
|  | STRUCTURAL FILL        |
|  | CMU MASONRY            |
|  | BRICK MASONRY          |
|  | CONCRETE               |
|  | GRAVEL                 |
|  | STEEL                  |
|  | ALUMINUM               |
|  | RIGID INSULATION       |
|  | BATT INSULATION        |
|  | PLYWOOD                |
|  | PARTICLEBOARD          |
|  | GYPSUM BOARD           |
|  | ASPHALT PAVING         |
|  | WOOD (STUDS / NAILERS) |
|  | WOOD (BLOCKING)        |
|  | WOOD                   |

**GRAPHIC SYMBOLS**

|  |                             |             |
|--|-----------------------------|-------------|
|  | Room name                   | ROOM NAME   |
|  | ROOM NO. FT. (WHERE OCCURS) | ROOM NUMBER |
|  | DETAIL CALLOUT              |             |
|  | BUILDING SECTION            |             |
|  | WALL SECTION                |             |
|  | DETAIL SECTION              |             |
|  | DRAWING REVISION            |             |
|  | REVISION NUMBER             |             |
|  | NORTH ARROW                 |             |
|  | GRID REFERENCE              |             |
|  | CENTER LINE                 |             |
|  | CEILING HEIGHT              |             |
|  | LEVEL ELEVATION             |             |
|  | SPOT ELEVATION              |             |
|  | DOOR NUMBER                 |             |
|  | WALL TYPE                   |             |
|  | WINDOW TYPE                 |             |
|  | KEYED NOTE                  |             |
|  | KEYED NOTE                  |             |
|  | GLASS TYPE                  |             |

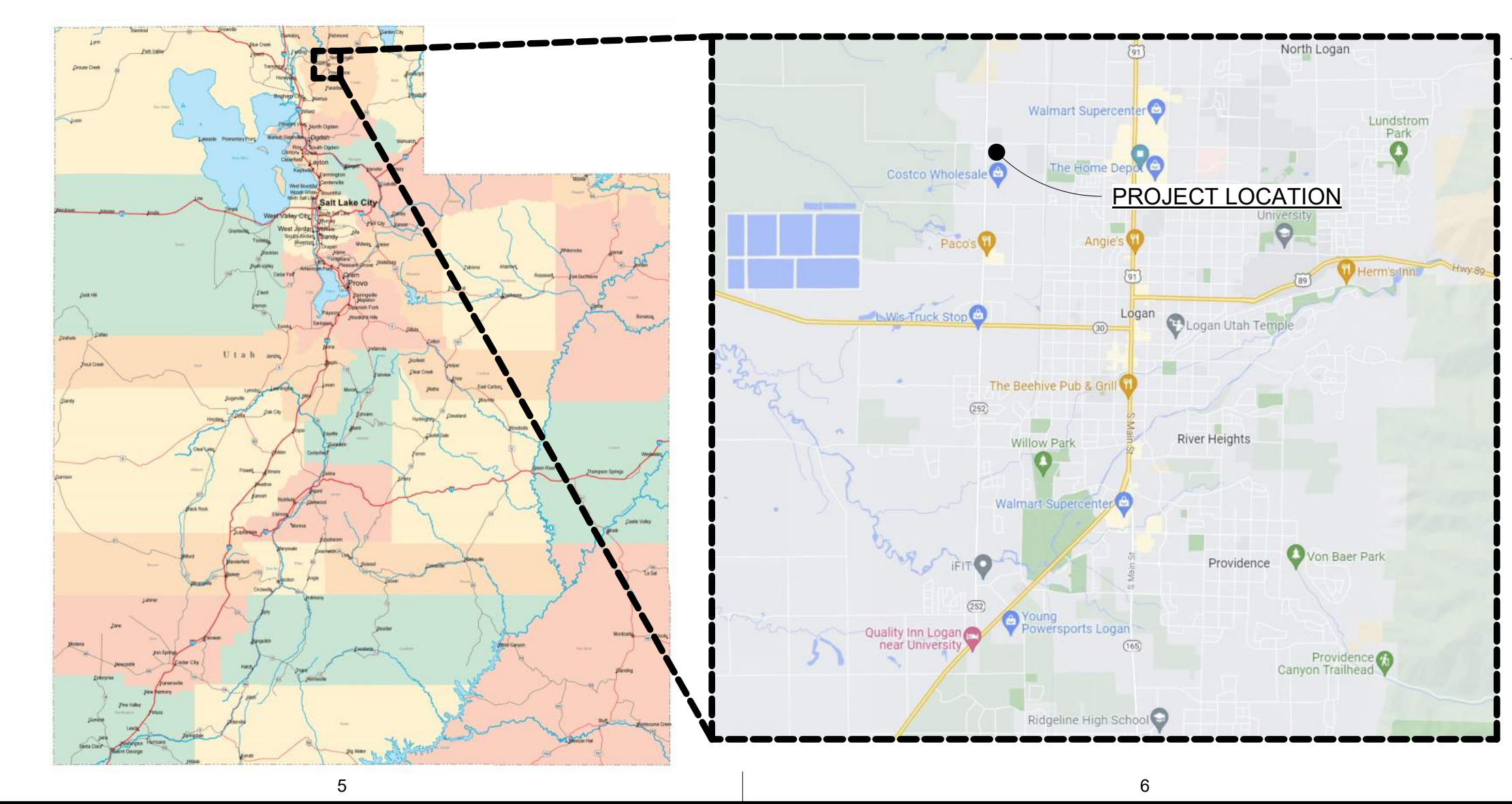
**DEFERRED SUBMITTALS**

For the purpose of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. After submittals are reviewed for general conformance by the architect and engineer of record, deferred submittals must be submitted to the building official for approval and that deferred items are not to be installed until approved by the building official (see IBC 107.3.4.1). Deferred submittals for this project are:

**ITEM #1** FIRE SPRINKLER DRAWINGS: ENGINEERED STAMPED WORKING PLANS, PREPARED ACCORDING TO NFPA 13 AND AS APPROVED BY THE AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS IF APPLICABLE. CONTRACTOR SHALL PROVIDE WITHIN 3 WEEKS AFTER BID HAS BEEN AWARDED. IN THE EVENT THAT CHANGES ARE NOT REQUIRED, THIS SUBMITTAL SHALL SHOW EXISTING CONDITIONS AND PROVIDE CONFIRMATION THAT THE SYSTEM MEETS ALL APPLICABLE CURRENT CODES.

**ITEM #2** FIRE ALARM DRAWINGS: ENGINEERED STAMPED WORKING PLANS AS APPROVED BY THE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE WITHIN 3 WEEKS AFTER BID HAS BEEN AWARDED. THIS SUBMITTAL SHALL SHOW EXISTING AND NEW CONDITIONS AND PROVIDE CONFIRMATION THAT THE SYSTEM MEETS ALL APPLICABLE CURRENT CODES.

**PROJECT LOCATION**









**OCCUPANCY & EXITING LEGEND**  
COORD. W/ G1-003, G1-004 & G1-005

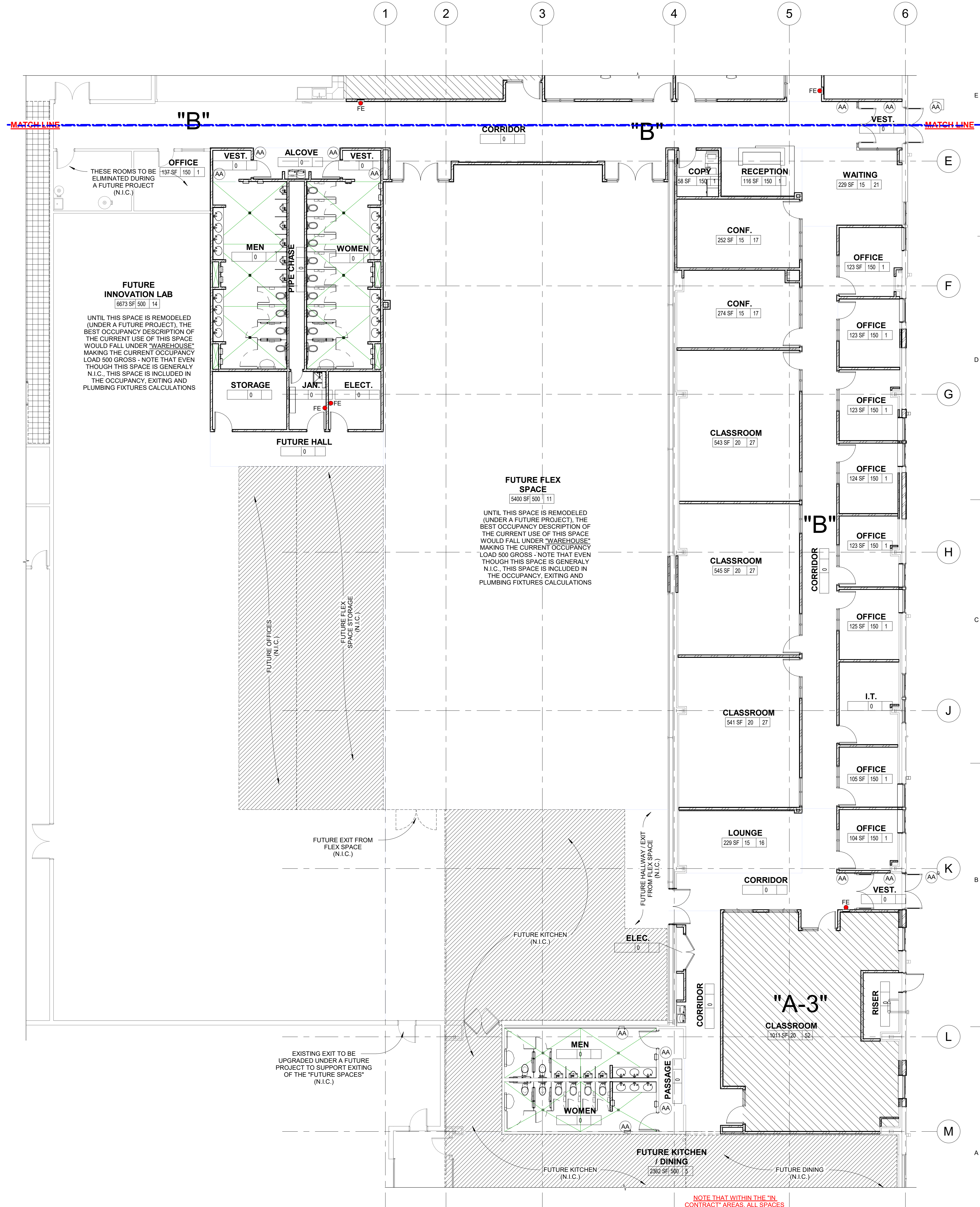
**ROOM NAME**  
### SF | ### | ##

- # OF OCCUPANTS
- SQUARE FOOTAGE PER OCCUPANT
- SQUARE FOOTAGE OF ROOM

--- TRAVEL DISTANCE  
--- TRAVEL TIME

AA = AUTOMATIC DOOR OPERATOR  
FE = FIRE EXTINGUISHER

→ DIRECTION INDICATED  
EXIT SIGN  
→ READABLE SIDE



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1366  
info@spe-architect.com  
www.spe-architect.com

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STATE OF UTAH  
Professional Seal  
No. 118114  
02/05/2024

CODE OFFICIAL STAMP  
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03/26/2024  
BRIDGERLAND TECHNICAL COLLEGE  
CONSTRUCTION AND  
MANAGEMENT

PROJECT NAME:  
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TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
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| OWNER PROJECT #: | 24139210              |
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| DESIGNED BY:     | SPE                   |
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SHEET TITLE:  
**AREA "A" CODE COMPLIANCE - ENLARGED**

SHEET NUMBER:  
**GI-004**

**A4** LEVEL 1 - CODE PLAN - ENLARGED - AREA "A"  
1/8" = 1'-0"

Last Pooled: 2/5/2024 1:23:24 PM





**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801-298-1369  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



CODE OFFICIAL STAMP



PROJECT NAME:

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GTE

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SHEET TITLE:

AREA "B" CODE COMPLIANCE - ENLARGED

SHEET NUMBER:

GI-005

**OCCUPANCY & EXITING LEGEND**  
 COORD. W/ GI-003, GI-004 & GI-005

**ROOM NAME**  
 ## SF | ## | ##

- # OF OCCUPANTS
- SQUARE FOOTAGE PER OCCUPANT
- SQUARE FOOTAGE OF ROOM

## - ##" TRAVEL DISTANCE  
 ## SEC TRAVEL TIME

AA = AUTOMATIC DOOR OPERATOR  
 FE FIRE EXTINGUISHER  
 DIRECTION INDICATED  
 EXIT SIGN  
 READABLE SIDE

NOTE THAT WITHIN THE "IN CONTRACT" AREAS, ALL SPACES ARE A "B" OCCUPANCY UNLESS NOTED OTHERWISE

THESE ROOMS TO BE ELIMINATED DURING A FUTURE PROJECT (N.I.C.)

**A3 LEVEL 1 - CODE PLAN - ENLARGED - AREA "B"**  
 1/8" = 1'-0"

Last Potted: 2/5/2024 1:23:27 PM



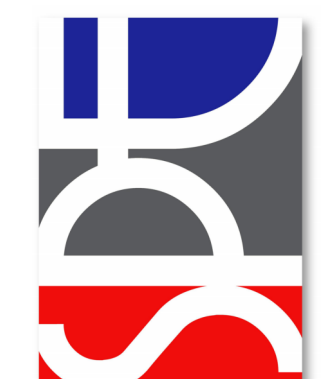
GENERAL DFCM NOTES:

- CONSTRUCTION OF NEW STATE BUILDINGS AND REMODELING EXISTING BUILDINGS SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE DFCM STANDARDS. THE DFCM STANDARDS CAN BE FOUND AT THE FOLLOWING WEB SITE: www.dfcm.utah.gov
ARCHITECT/ENGINEERS HAS DESIGNED THIS PROJECT TO MEET ALL DFCM STANDARDS.
PRIOR TO FINAL APPROVAL OF THE PROJECT A FINAL INSPECTION NEEDS TO BE SUBMITTED TO THE BUILDING OFFICIAL INDICATING THAT THE PROJECT IS COMPLETE IN ACCORDANCE WITH THE APPROVED DRAWINGS AND CERTIFICATES.
THE FOLLOWING DOCUMENTS ARE REQUIRED BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED:
A CODE INSPECTION REPORT RECOMMENDING THAT A CERTIFICATE OF OCCUPANCY BE ISSUED.
FINAL REPORT FROM THE SPECIAL INSPECTION AGENCY.
CERTIFICATE OF FIRE CLEARANCE FROM THE STATE FIRE MARSHALL.
REPORT OF THE DISINFECTION OF THE POTABLE WATER SYSTEM IPC 610.
A CERTIFICATE OF COMPLIANCE FROM THE APPROVED FABRICATOR, IF APPLICABLE, IBC 1704.2.2.
A SIGNED FINAL OBSERVATION REPORT FROM THE STRUCTURAL ENGINEER WHEN STRUCTURAL OBSERVATION IS REQUIRED BY IBC 1710

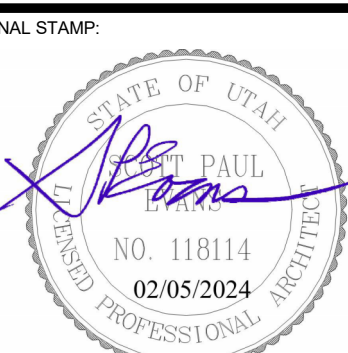
The following documents are required before a certificate of occupancy is issued:

- A code inspection report recommending that a certificate of occupancy be issued.
Final report from the special inspection agency.
Certificate of fire clearance from the State Fire Marshall.
Final approval from the State boiler inspector if applicable. N/A
Report of the disinfection of the potable water system. IPC 610
Certificate of compliance from approved fabricator of applicable. IBC 1704.2.2. N/A
A stamped and signed final report from the structural engineer when structural observation is required by IBC 1710.
An NFRC Certificate for fenestration without the NFRC label.
Final report from the special inspector and the mechanical engineer when smoke control is required.
Final reports must comply with IBC 903.6.6.6. N/A

HOT WORKS REQUIREMENTS
NOTE THAT THE STATE OF UTAH /DFCM REQUIRES TRAINING, TESTING AND PERMITS FOR EVERYONE THAT WILL PERFORM HOT WORKS ON STATE PROJECTS - VISIT THE URL INDICATED BELOW FOR MORE INFORMATION
https://dfcm.utah.gov/building-official/dfcm-hot-works/



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
801-298-1369
info@spe-architect.com
www.spe-architect.com



PROFESSIONAL STAMP



CODE OFFICIAL STAMP

PROJECT NAME:

BRIDGERLAND TECHNICAL COLLEGE
TRANSCHILL BUILDING REMODEL
940 WEST 1400 NORTH
LOGAN, UTAH 84301

REVISIONS:
NO. DATE DESCRIPTION
1 03/20/24 CODE REVIEW RESPONSE

ISSUED:
NO. DATE DESCRIPTION
01 03/20/24 PERMIT SET

OWNER PROJECT #: 24139210
SPE PROJECT #: 22-38
DRAWN BY: GTE
DESIGNED BY: SPE

CHECKED BY: SPE
DESIGNED BY: SPE

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SHEET TITLE:
DFCM FORMS

SHEET NUMBER:
GI-006

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

Special Inspection, Material Testing & Structural Observation
Items Required by Chapter 17 of the 2021 IBC

Table with columns for item name, code reference, and status (Observed/Permitted/Not Permitted). Includes sections for Fabricators (IBC 1704.5.1 & 1705.10), Structural Steel (IBC 1705.2.1, 1705.2.2.1 & 1705.3.1.1), and Welding (Table 1705.2.2.1, 1705.2.2.2, 1705.2.2.3).

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

STEEL ROOF AND FLOOR DECKS (IBC 1705.2.2 and SM 0400-C-2017)

Table with columns for item name, code reference, and status. Includes sections for Steel Decking (IBC 1705.2.2.1), Cold-Formed Steel Construction (IBC 1705.2.2.2), and Concrete Construction (IBC 1705.3 & 1705.3.1.1).

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

MASS TIEBARS CONSTRUCTION (IBC 1705.3.1)

Table with columns for item name, code reference, and status. Includes sections for Mass Tiebars (IBC 1705.3.1.1) and Masonry Construction (IBC 1705.3.2).

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1706.4.1 & AWCI 12-B)

Table with columns for item name, code reference, and status. Includes sections for Mastic and Intumescent Fire-Resistant Coatings (IBC 1706.4.1 & AWCI 12-B) and Exterior Insulation and Finish Systems (EIFS) (IBC 1706.7).

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

REINFORCED CONCRETE CONSTRUCTION (IBC 1704.2)

Table with columns for item name, code reference, and status. Includes sections for Reinforced Concrete Construction (IBC 1704.2) and Masonry Construction (IBC 1705.3.2).

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

WOOD CONSTRUCTION (IBC 1705.5, 1705.11.1 & 1705.12.2)

Table with columns for item name, code reference, and status. Includes sections for Wood Construction (IBC 1705.5, 1705.11.1 & 1705.12.2) and Masonry Construction (IBC 1705.3.2).

Office of the State Building Official
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Salt Lake City, Utah 84114
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Website: http://dfcm.utah.gov/

MASS TIEBARS CONSTRUCTION (IBC 1705.3.1)

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Office of the State Building Official
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Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

WOOD CONSTRUCTION (IBC 1705.5, 1705.11.1 & 1705.12.2)

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Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

MECHANICAL/ELECTRICAL COMPONENTS (IBC 1705.13.6)

Table with columns for item name, code reference, and status. Includes sections for Mechanical/Electrical Components (IBC 1705.13.6) and Nonstructural Component Checklist.

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

NONSTRUCTURAL COMPONENT CHECKLIST

Table with columns for item name, code reference, and status. Includes sections for Nonstructural Component Checklist.

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

REINFORCED CONCRETE CONSTRUCTION (IBC 1704.2)

Table with columns for item name, code reference, and status. Includes sections for Reinforced Concrete Construction (IBC 1704.2) and Masonry Construction (IBC 1705.3.2).

Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

MASS TIEBARS CONSTRUCTION (IBC 1705.3.1)

Table with columns for item name, code reference, and status. Includes sections for Mass Tiebars (IBC 1705.3.1.1) and Masonry Construction (IBC 1705.3.2).

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Salt Lake City, Utah 84114
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Website: http://dfcm.utah.gov/

WOOD CONSTRUCTION (IBC 1705.5, 1705.11.1 & 1705.12.2)

Table with columns for item name, code reference, and status. Includes sections for Wood Construction (IBC 1705.5, 1705.11.1 & 1705.12.2) and Masonry Construction (IBC 1705.3.2).

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Office of the State Building Official
1119 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538-3018
Website: http://dfcm.utah.gov/

NONSTRUCTURAL COMPONENT CHECKLIST

Table with columns for item name, code reference, and status. Includes sections for Nonstructural Component Checklist.



**ADA REQUIREMENTS**  
 NOTE THAT THIS PROJECT WAS DESIGNED USING THE  
 "EXISTING BUILDINGS" PROVISION OF ICC A117.1-2017.

**ARCHITECTS INFORMATION**



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

**PROFESSIONAL STAMP**

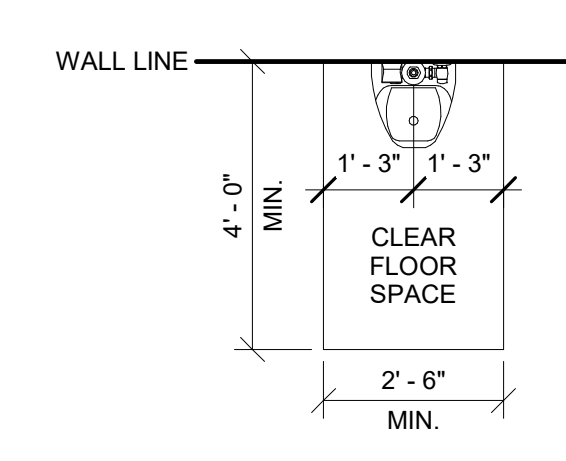


**CODE OFFICIAL STAMP**

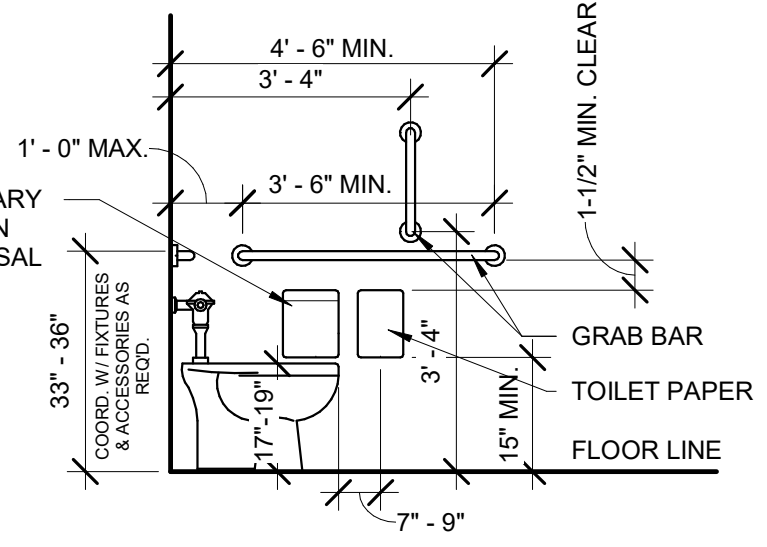
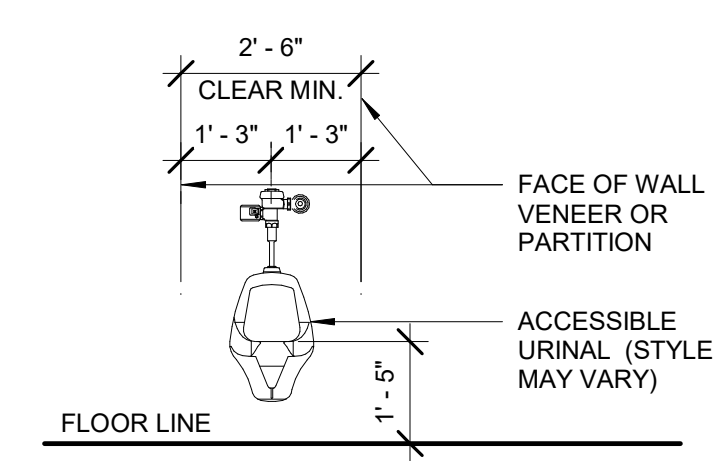


**PROJECT NAME:**  
 BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL

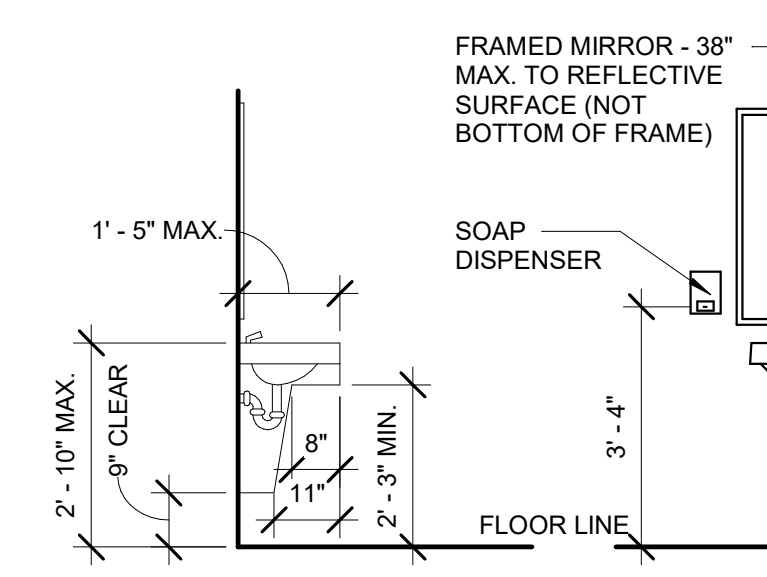
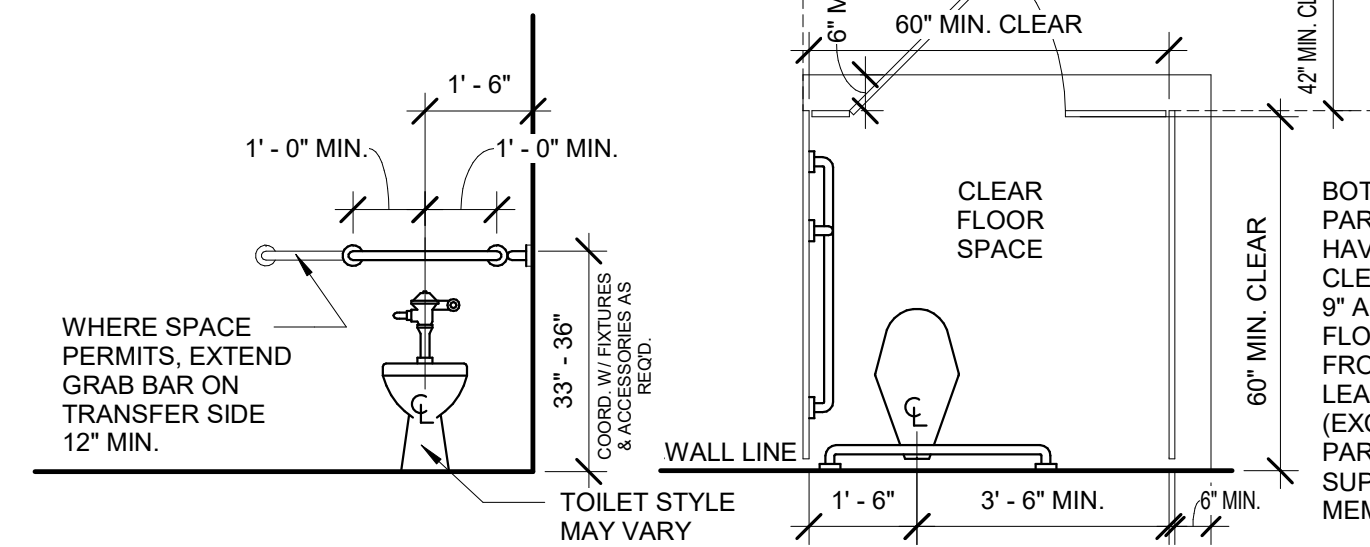
940 WEST 1400 NORTH  
 LOGAN, UTAH 84321



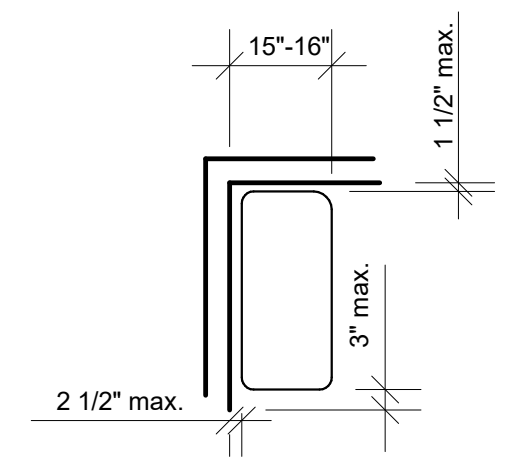
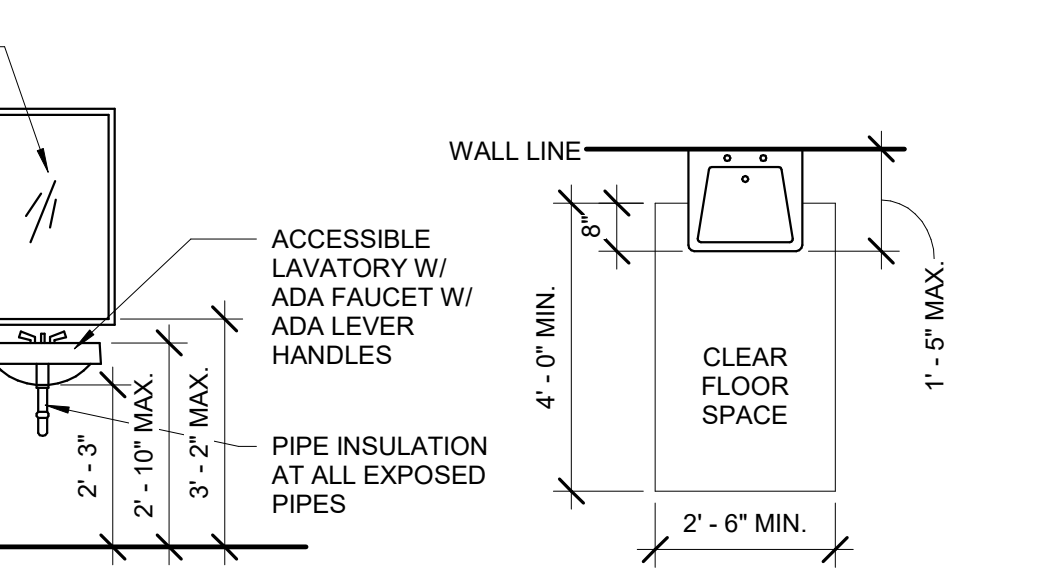
**ACCESSIBLE URINAL**



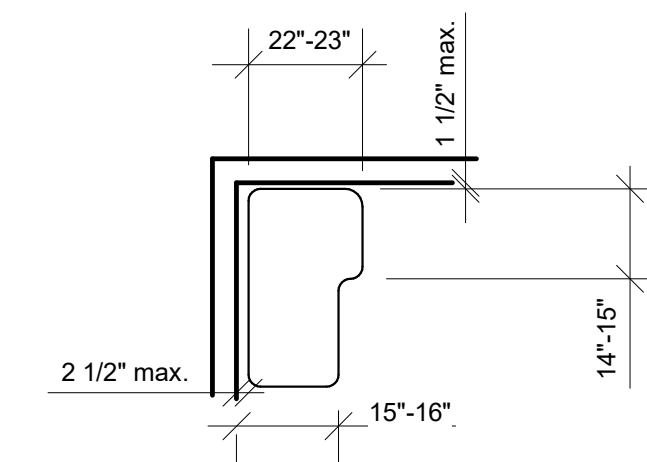
**ACCESSIBLE TOILET STALL**



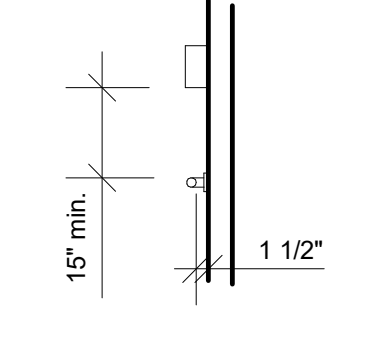
**ACCESSIBLE LAVATORY**



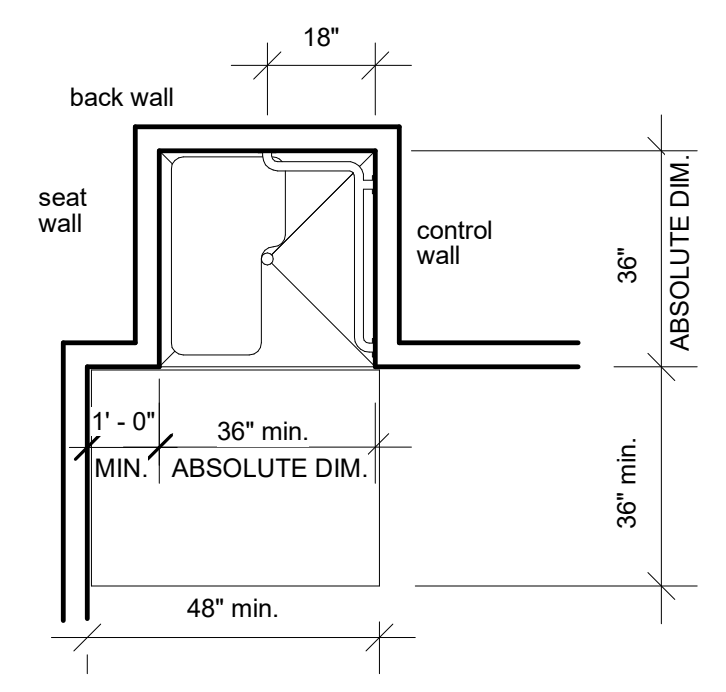
**RECTANGULAR SHOWER COMPARTMENT SEAT**



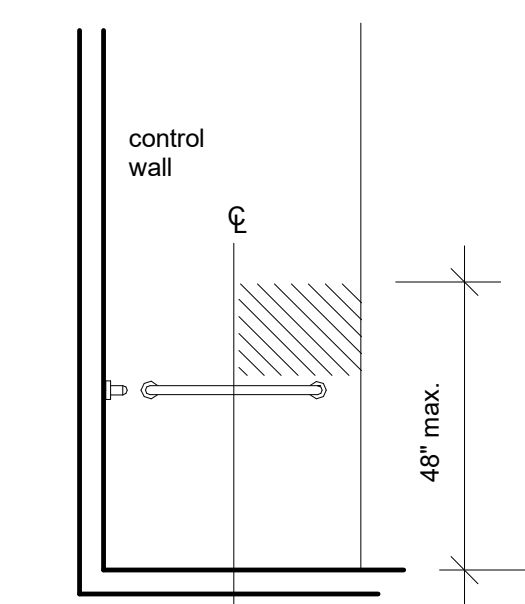
**L-SHAPED SHOWER COMPARTMENT SEAT**



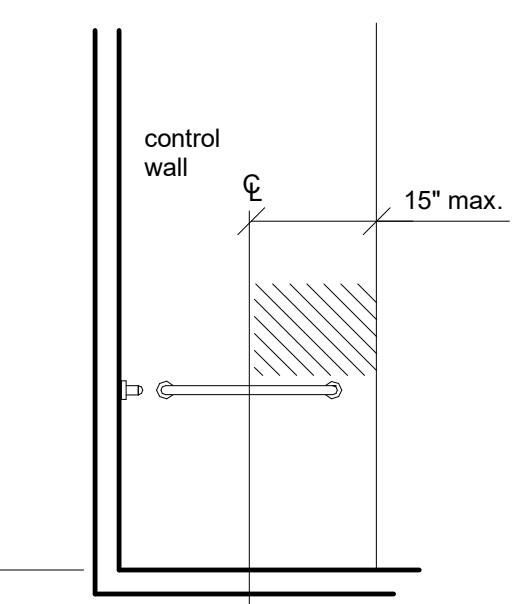
**SPACING OF GRAB BARS**



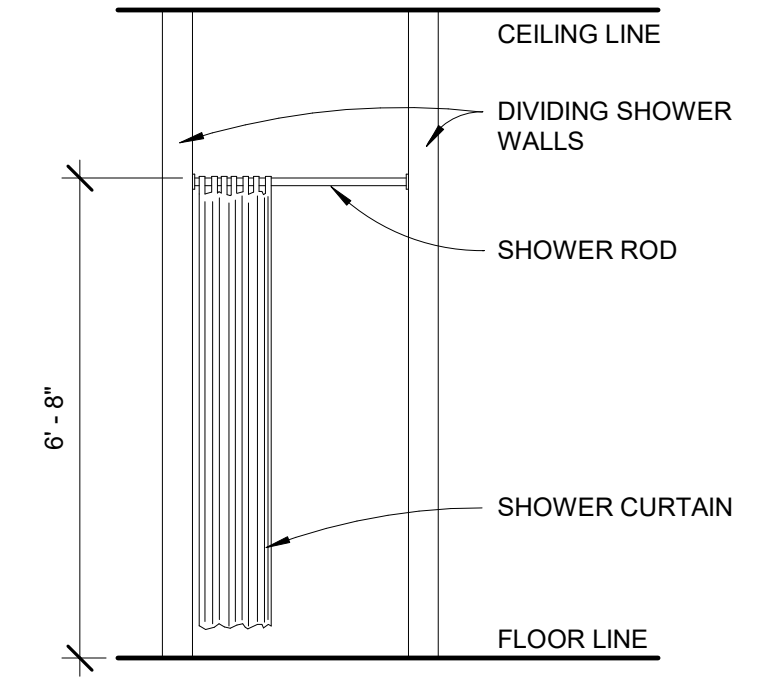
**TRANSFER-TYPE SHOWER COMPARTMENT WITH GRAB BARS**



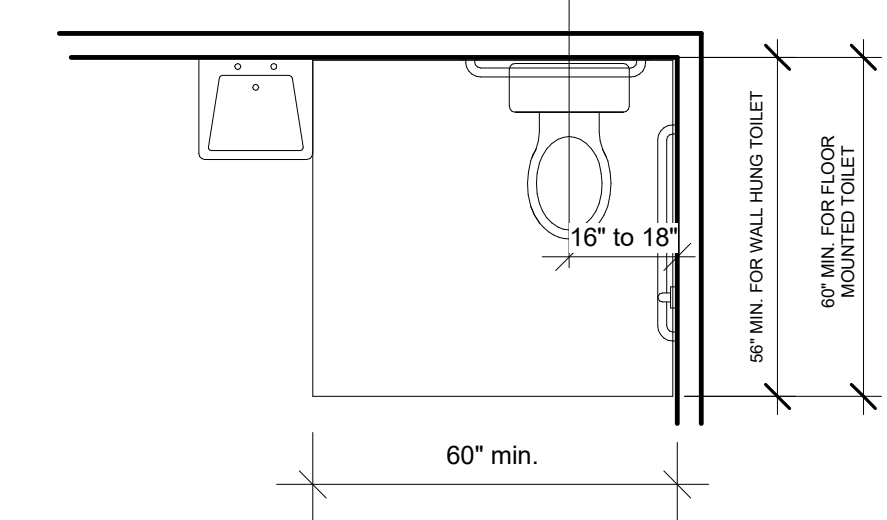
**CONTROLS IN TRANSFER-TYPE SHOWER**



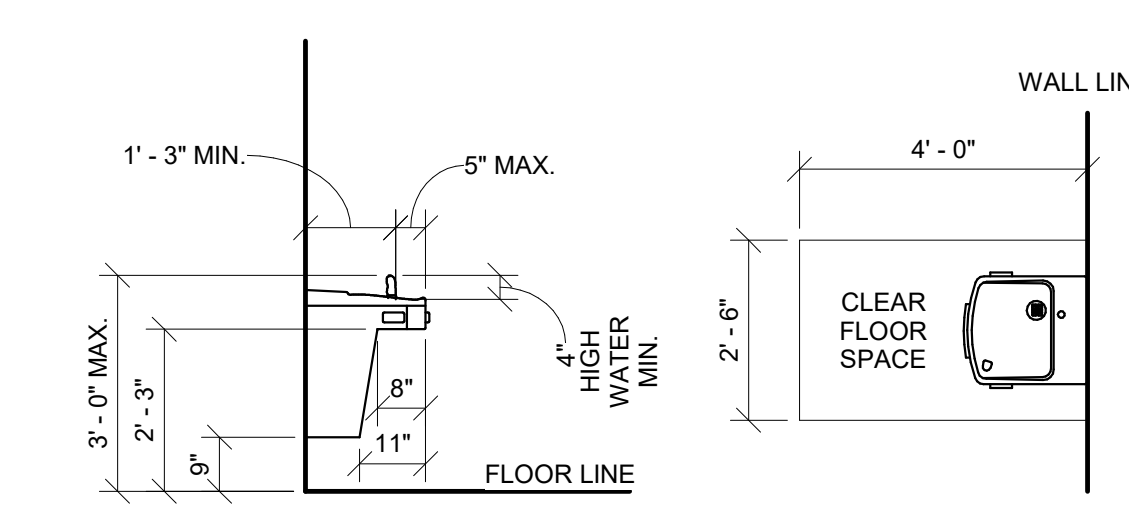
**LOCATION OF SHOWER SPRAY UNIT**



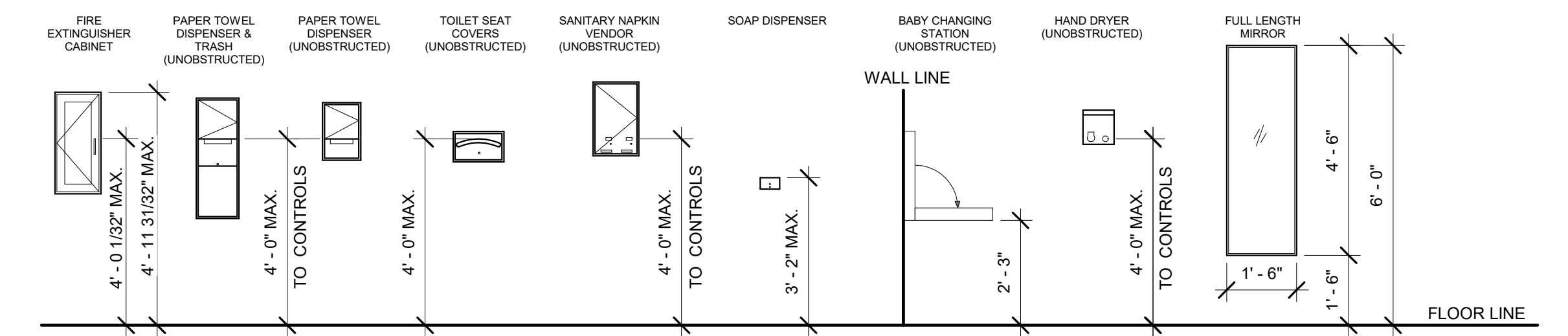
**SHOWER ROD AND CURTAIN**



**WATER CLOSET LOCATION / CLEAR FLOOR SPACE**

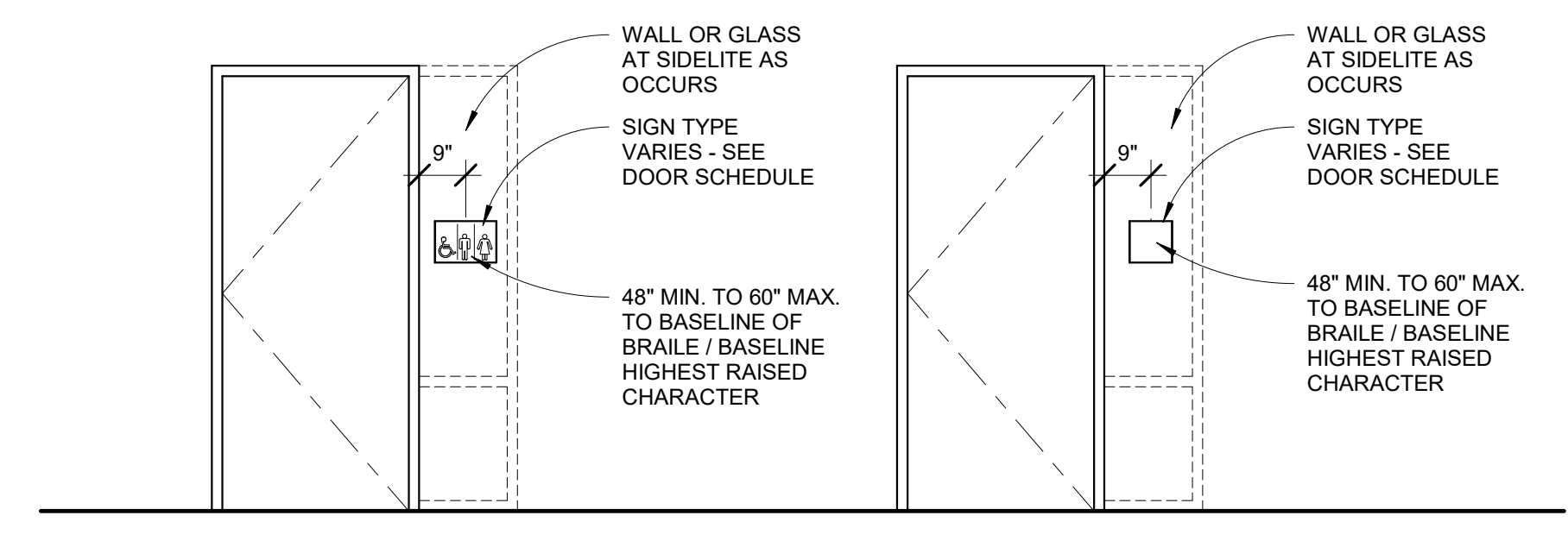


**ELECTRIC WATER COOLER**

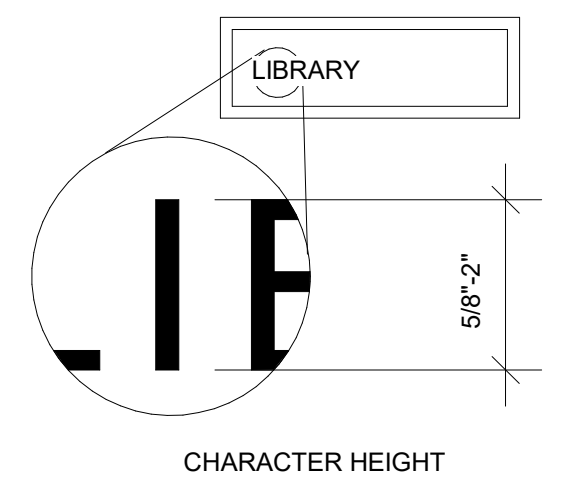


**MISC. ACCESSORIES MOUNTING HEIGHT**

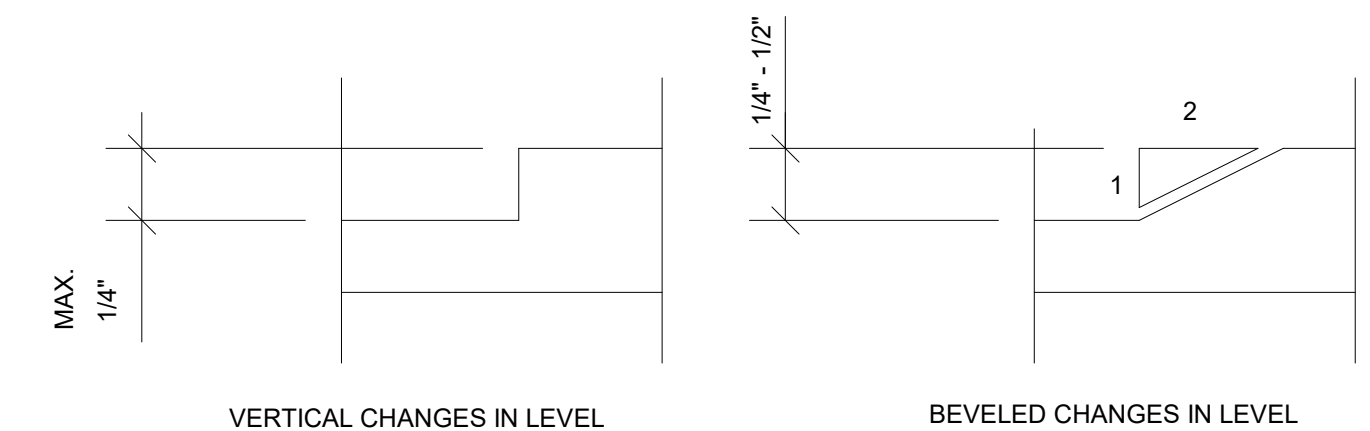
**ACCESSIBLE SHOWERS**  
 SHOWERS AND ALL RELATED COMPONENTS MUST FULLY COMPLY WITH THE REQUIREMENTS OF "TRANSFER-TYPE SHOWER COMPARTMENTS" AS STATED IN ICC/ANSI A117.1-2003



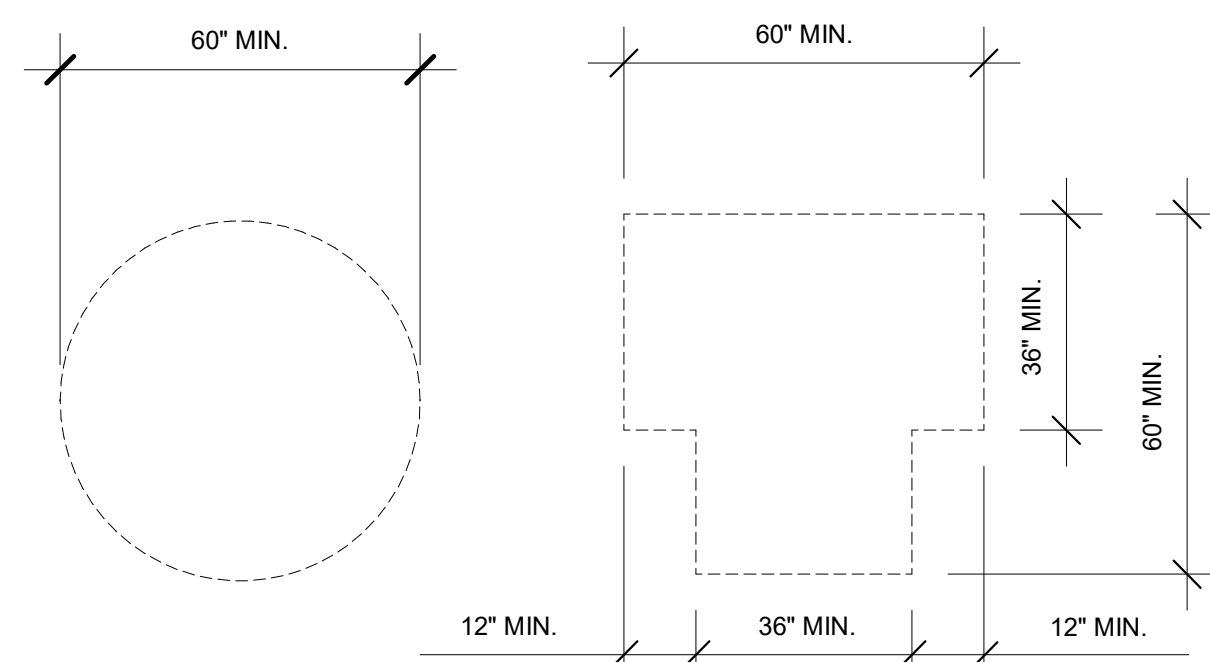
**SIGNAGE AT DOORS**



**CHARACTER HEIGHT**



**ACCESSIBLE CHANGES IN LEVEL**



**WHEELCHAIR TURNING SPACE**

**NOTE:** PROVIDE BLOCKING / BACKING AS REQUIRED FOR ALL WALL MOUNTED ACCESSORIES / FIXTURES

**REVISIONS**

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

**OWNER PROJECT #:** 24139210  
**SPE PROJECT #:** 22-38  
**DRAWN BY:** GTE  
**CHECKED BY:** SPE  
**DESIGNED BY:** SPE  
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**ISSUED:**

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

**OWNER PROJECT #:** 24139210  
**SPE PROJECT #:** 22-38  
**DRAWN BY:** GTE  
**CHECKED BY:** SPE  
**DESIGNED BY:** SPE  
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**ADA GENERAL REQUIREMENTS**

**SHEET NUMBER**  
 GI-007

Plot Date: 2/5/2024 1:23:38 PM



GENERAL STRUCTURAL NOTES

GENERAL

- The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown.
- The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts, and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.
- Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.
- Site observations by BHB Consulting Engineers' field representative shall not be construed as approval of construction procedures nor special inspection.
- Detailed and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical, and electrical drawings.
- Contractor shall review shop drawings for compliance with contract documents, and stamp shop drawings with review stamp prior to submission to architect for review. Review of shop drawings by BHB Consulting Engineers is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents. Fabrication shall not begin until shop drawings review process is complete. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
- Only an authorized representative of BHB Consulting Engineers may make changes to these contract drawings. BHB Consulting Engineers shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers.

BASIS OF DESIGN

- Governing Code: International Building Code 2021
  - Risk Category: II
- Snow Loads
  - Ground Snow Load:  $P_g = 41$  psf
  - Snow Importance Factor:  $I_s = 1.0$
  - Snow Exposure Coefficient:  $C_e = 1.0$
  - Thermal Exposure Coefficient:  $C_t = 1.0$
  - Roof Snow Load:  $P_s = 0.7 \cdot C_e \cdot C_t \cdot I_s \cdot P_g = 29$  psf plus Snow Drift
- Rain Loads
  - Rain Intensity:  $i = 1.5$  in/hr
- Roof Live Load: 20 psf
- Seismic Loads
  - Seismic Importance Factor,  $I_a$ : 1.0
  - Seismic Design Category: D
  - Site Specific Ground Motion Hazard Analysis: Not Required per exceptions in section 11.4.8 of ASCE 7  
Mapped Spectral Acceleration  
 $S_a = 1.095g$   
 $S_1 = 0.363g$   
D-Default
  - Soil Site Class:  $F_a = 1.2$
  - Soil Site Coefficients:  $F_v = 1.94$
  - 5% Damped Design Spectral Response Acceleration  
 $S_{D1} = 2/3 \cdot F_a \cdot S_1 = 0.496g$
- Wind Loads
  - Basic Wind Velocity (3 Second Gust): 103 mph
  - Exposure Type: C
  - Internal Pressure Coefficient,  $GCP_i$ : +/-0.18
  - Topographic Factor,  $K_{zt}$ : 1.0
  - Ground Elevation Factor,  $K_e$ : 1.0
  - Components and Cladding Wind Force Table (psf, Strength Design)

| Location                                  | Tributary Area (square feet) |      |      |      |
|---|------------------------------|------|------|------|
|   | 10                           | 20   | 50   | 500  |
| Walls                                     |                              |      |      |      |
| Zone 5: Within 8 feet of building corners | 25.7                         | 24.0 | 21.7 | 20.0 |
| Zone 4: All other areas                   | 20.9                         | 20.0 | 18.9 | 18.0 |
| Zone 2: Within 8 feet of building edges   | 31.8                         | 31.2 | 30.5 | 30.0 |
| Roof                                      |                              |      |      |      |
| Zone 3: Within 8 feet of building corners | 49.6                         | 44.3 | 37.1 | 31.8 |
| Zone 1: All other areas                   | 22.8                         | 22.8 | 22.8 | 22.8 |

EXISTING CONDITIONS

- Structural connections and the framing systems shown in the structural drawings are based on a limited site survey. The contractor shall verify the existing conditions of exposed framing systems, connections, walls, and other structural elements within the project area. If existing conditions vary from the information in the contract documents, the contractor shall notify the architect/engineer prior to proceeding with the fabrication or construction of any affected elements.
- Existing framing systems and foundations taking new loads are assumed to be in good condition, unless noted otherwise in the contract documents. The contractor shall immediately notify the architect/engineer of any deficiencies in the existing structure that are observed or revealed during construction (e.g. corrosion of steel members, cracking or crumbling of concrete, checking or splitting of wood members) prior to proceeding with the fabrication or construction of any affected elements.
- The contractor shall use the foundation systems indicated on the plans for reference only, and shall field verify foundation sizes, locations, and thicknesses during construction. The contractor shall notify the architect/engineer if existing foundations vary from the information in the contract documents prior to proceeding with the fabrication or construction of any affected elements.
- While performing work adjacent to existing structures, the contractor shall be responsible for adequate shoring and protection of all existing structures, utilities, and services which will be affected by the work in the contract documents.

CONCRETE

- Materials, unless noted otherwise:
    - Normal weight aggregates: ASTM C 33
      - Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1 1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur:
        - The percent retained on two adjacent sieves shall not fall below 5%.
        - The percent retained on three adjacent sieves shall not fall below 8%.
        - When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.
      - Maximum Aggregate Size shall not be larger than:
        - 3 1/2" or 1/5 the narrowest dimension of the forms
        - 1/3 the depth of the slab
        - 3/4 the minimum clear spacing between bars
    - Reinforcing Steel: ASTM 615 Grade 60 ( $F_y = 60$  ksi)  
Use Grade 40 ( $F_y = 40$  ksi) for field bent dowels with spacings indicated reduced by 1/3.  
See Structural Steel section
    - Anchor Rods
    - Admixtures:
      - Air-entraining admixtures shall comply with ASTM C 260 (when used).
      - Calcium chloride shall not be added to the concrete mix.
      - Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used)
      - Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used)
      - Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when used)
      - High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used)
      - High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G (when used)
      - Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer.
  - Type III cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain the same for the entire job.
  - The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-19.
  - Cementitious Materials - Limit percentage, by weight, of cementitious materials other than portland cement as follows:
    - Fly Ash - ASTM C618, Class C or F - 35% maximum cementitious content.
    - Slag Cement - ASTM C989, Grade 100 or 120 - 50% maximum cementitious content.
  - Provide air entrainment as recommended by Table 19.3.3.1 of ACI 318-19. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained. Concrete in unconditioned spaces shall be considered site concrete.
  - No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
- Compressive strengths of concrete at 28 days shall meet the following performance requirements (see ACI-318-19, Chapter 19):
  - Interior Slabs on Grade
 

|                         |           |
|-------------------------|-----------|
| Strength Classification | 3,000 psi |
| FD, SO, WO, CO          |           |
  - All Site Concrete with Reinforcement
 

|                         |           |
|-------------------------|-----------|
| Strength Classification | 5,000 psi |
| F3, SO, W1, C2          |           |
  - All Site Concrete without Reinforcement
 

|                         |           |
|-------------------------|-----------|
| Strength Classification | 4,500 psi |
| F3, SO, W1, C2          |           |
- Only one grade or type of concrete shall be poured on the site at any given time.
- The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
  - Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- Reinforcement shall have the following concrete cover:
 

|   | Clear Cover |
|---|-------------|
| a. Cast-in-place Concrete                                       | 3"          |
| i. Cast against and permanently exposed to earth                |             |
| ii. Formed concrete exposed to earth or weather:                |             |
| #8 thru #18 bars  | 2"          |
| #5 and smaller bars   | 1.1/2"      |
| iii. Concrete not exposed to weather or in contact with ground: |             |
| Slabs, Walls and their piers, Joists, #11 bars and smaller      | 3/4"        |
| Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals         | 1.1/2"      |
- Detailing:
  - At joints, provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
  - At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48"
  - Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length. See "Typical Corner Wall Reinforcing at Concrete Walls" detail in drawings.
  - All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90-degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.

Construction Joints, Control (Contraction) Joints:

- Construction Joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4". The laitance on the concrete (thin, flaky layer of hardened, weakened hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set. Construction joints in slabs on grade shall not exceed a distance of 12'-0" o.c. in any direction.
  - Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the cutter on the slab. Final set is typically achieved within the first 4 to 12 hours after the slab has been finished in an area (depending on weather conditions and concrete hydration rate; 4 hours in hot weather to 12 hours in cold weather). For early entry saw cutting, joints should be cut within the first 1 to 4 hours (depending on weather conditions and concrete hydration rate; 1 hour for hot weather and 4 hours for cold weather). Where saw cut joints cannot be cut along the entire projected length of the joint, a 90-degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by:
    - Saw cut a depth of 1/4 the thickness of the slab (1 1/4" ± for early entry saws) minimum.
    - Tooled joints a depth of 1/4 the thickness of the slab
    - Saw cut depth shall be increased to 1/3 of the slab thickness (1.3/4" ± for early entry saws) where macro fibers are used.
  - For interior concrete slabs-on-grade that are to receive no floor covering, install construction or control joints in slabs on grade at a spacing not to exceed 24 times the slab thickness in any direction, unless noted otherwise. For interior concrete slabs-on-grade that are to receive floor coverings the contractor has the option to increase the control joint spacing to 36 times the slab thickness in any direction.
  - For architectural exposed concrete walls, including retaining walls, provide contraction joints at a uniform spacing of not more than 20 ft o.c. by placing deep (1.5 times the maximum aggregate size), narrow rustication strips on both wall faces to induce cracking. Place contraction joints at any locations in which the wall changes thickness. At all contraction joints, reduce horizontal reinforcing crossing the joint by 1/2 of the horizontal reinforcement elsewhere in the wall. Coordinate location with the architectural drawings.
- Construction
    - Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade and slabs over metal deck shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade or deck during placement of concrete is not permitted.
    - Concrete to be mechanically consolidated during placement per ACI standards.
    - Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
    - All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
    - No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.
    - Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.

POST-INSTALLED ANCHORS

- General Post-Installed Anchor Notes
  - Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors until concrete has reached 28-day compression strength.
  - Anchors or adhesives specified in details shall be provided; alternative anchors or adhesives may be used if the contractor provides calculations demonstrating that the alternative can achieve the performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be submitted to the structural engineer prior to use.
  - Follow all the manufacturer's recommendations and certification testing reports for anchor installation. See specific anchors below for more information.
  - No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout, increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.
- Adhesive Anchors
  - For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" in drawings. High Strength Adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group. See below for the acceptable adhesives in each group.
    - Standard Adhesive Group for anchors in concrete includes the following adhesives:
      - SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
      - Pure 50+ (ICC-ES ESR-3576) by Dewart
      - AC100+ Gold (ICC-ES ESR-2582) by Dewart
      - HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
    - High Strength Adhesive Group for anchors in concrete includes the following adhesives:
      - SET-3G (ICC-ES ESR-4057) by Simpson Strong-Tie
      - Pure 110+ (ICC-ES ESR-3298) by Dewart
      - AC200+ (ICC-ES ESR-4027) by Dewart
      - HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc.
      - HIT-HY 200 (ICC-ES ESR-3187) by Hilti Inc.
  - Adhesive shall be within the manufacturer's recommended life time and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
  - Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless adhesive is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
  - Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.
- Mechanical Anchors
  - For concrete, the mechanical anchor shall be Kwik Bolt T22 (ICC-ES ESR-4266) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Dewart.
- Screw Anchors
  - For concrete, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only) by Simpson Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt, or Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only) by Hilti Inc.
- Powder Actuated Fasteners
  - For fasteners driven into steel (except at metal decks), concrete, or concrete over metal deck, the fastener shall be X-U P8 TH Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., POPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Dewart.

STRUCTURAL STEEL

- Material:
  - Wide Flange Sections: ASTM A992 (50 ksi)
  - All Thread Rods, Other Shapes & Plates: ASTM A36 (36 ksi)
  - Bolted Connections: ASTM F3125 Grade A325 with ASTM A563 nuts and ASTM F436 hardened washers.
- Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
  - American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
  - AISC "Code of Standard Practice" excluding the following: Section 3.2, Section 4.4, Section 4.4.1.
  - AISC "Specification for Structural Joints Using High-Strength Bolts"
  - American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
  - AISC "Seismic Provision for Structural Steel Buildings"- ANSI/AISC 341
- Welding
  - Field weld flags that have been put in these documents are for suggestion only. The contractor has the option to substitute shop welding for field welding or vice versa. The steel fabrication and steel erection drawings must clearly distinguish between shop welds and field welds prior to any work being performed.
  - Steel fabricators shall indicate the shop welds that are excluded from their bids. Steel erectors shall indicate the field welds that are excluded from their bids. It is the responsibility of the contractor to coordinate shop welding and field welding with the appropriate subcontractors.
  - All welding and cutting shall be performed by AWS certified welders.
  - Use E-70 XX (58 ksi yield, 70 ksi tensile) unless noted otherwise. E60 XX may be used for welding steel deck.
  - All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
  - Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
  - Do not weld anchor bolts, including "tack" welds.
  - Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
- Bolted Connections:
  - Use bolts for steel to steel connections, as noted herein or as noted on the drawings. Bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition. See bolted connections schedule in drawings.
  - Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. A oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.
  - Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
  - Bolts, nuts and washers shall not be reused.
- Provide full-depth web-stiffener plates where indicated in the details including at each side of all beams at all bearing points. Stiffener plate thickness shall be the greater of the following:
  - 1/4"
  - 1/2 the thickness of the beam flange
  - 1/16 the width of the stiffener (half the beam flange width).
  - 1/32 the depth of the beam
 Stiffener plates shall be welded on one side with fillet welds all around. The size of the fillet weld shall be 1/2 the stiffener plate thickness or 3/16" min.

METAL DECKING

- Steel deck shall comply with the latest requirements of the Steel Deck Institute.
- All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gage deck as required to provide the equivalent loading of the deck under a three-span condition.
- Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted. Light weight suspended acoustical ceilings with a total weight of 50 lbs per attachment may be hung from roof deck. The hangers shall be staggered to distribute the loads over multiple deck flutes.
- All deck supporting members shall be dry before welding.
- Clinch seams before welding interlocking seams.


Steel Roof Deck

- Steel roof deck shall be 1.1/2" deep X 20 gage minimum painted, type "B" wide rib deck with interlocking side seams with the following properties:
 

|                                 | 22 Gage | 20 Gage | 18 Gage | 16 Gage |
|---------------------------------|---------|---------|---------|---------|
| Minimum S (in <sup>2</sup> /ft) | 0.188   | 0.237   | 0.331   | 0.410   |
| Minimum I (in <sup>4</sup> /ft) | 0.192   | 0.231   | 0.308   | 0.381   |
- Fasten deck to supporting framing members with powder-driven fasteners. Powder-driven fasteners shall be as indicated below based on the steel framing thicknesses:
 

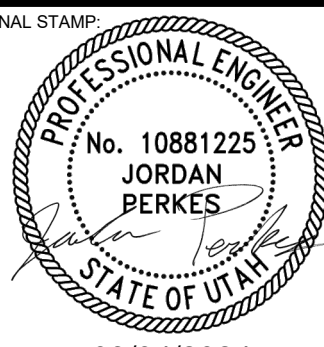
| Steel Framing Thickness | Fastener           | ICC-ESR or IAPMO report number |
|-------------------------|--------------------|--------------------------------|
| 0.125" to 0.375"        | Hilti X-HSN-24     | ICC-ESR 2776                   |
| 0.25" and up            | Hilti X-ENP-19 L15 | ICC-ESR 2776                   |
| 0.113" to 0.155"        | Pneutek SDK61075   | ICC-ESR 2941                   |
| 0.155" to 0.250"        | Pneutek SDK63075   | ICC-ESR 2941                   |
| 0.188" to 0.312"        | Pneutek K64062     | ICC-ESR 2941                   |
| 0.281" and up           | Pneutek K66062     | ICC-ESR 2941                   |
- For type "B" metal deck, fasteners shall be placed based on a 36/7/4 attachment pattern (Closer spacings may be used to develop minimum shear requirements):
  - Supports perpendicular to deck corrugations:
    - At lap joints between adjacent deck sheets: 6" o.c.
    - At intermediate supports away from lap joints: 12" o.c.
  - Supports parallel to deck corrugations: 6" o.c.
- In lieu of mechanical fasteners, contractor may weld deck to supporting framing members with 3/4" diameter puddle welds at the same spacing for deck pins as indicated above.

ARCHITECTS INFORMATION




SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

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JORDAN PERKES  
STATE OF UTAH  
03/04/2024

CODE OFFICIAL STAMP



REVIEWED FOR CODE COMPLIANCE  
03/06/2024  
J.P.

PROJECT NAME:

BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

REVISIONS

| NO. | DATE       | DESCRIPTION |
|-----|------------|-------------|
| 01  | 02/05/2024 | PERMIT SET  |

ISSUED:

| NO. | DATE       | DESCRIPTION |
|-----|------------|-------------|
| 01  | 02/05/2024 | PERMIT SET  |

OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: J.R.  
CHECKED BY: J.P.  
DESIGNED BY: J.P.  
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SHEET TITLE:

GENERAL STRUCTURAL NOTES

SHEET NUMBER: S-001





GENERAL STRUCTURAL NOTES

- e. Attach interlocking seams with one of the following:
  - i. 1.1/2" long top seam welds at 24" o.c. maximum
  - ii. Verco PunchLok II System at 24" o.c. maximum
  - iii. ASC Delta Grip System at 24" o.c. maximum
  - iv. CSI Inter-Knek System at 24" o.c. maximum
- Close spacing may be used to develop minimum shear requirements. A standard button punch may not be used in place of Verco PunchLok, DeltaGrip or CSI Inter-Knek
- f. Provide a 2" minimum bearing and a 4" lap at the splice points.

**COLD-FORMED STEEL**

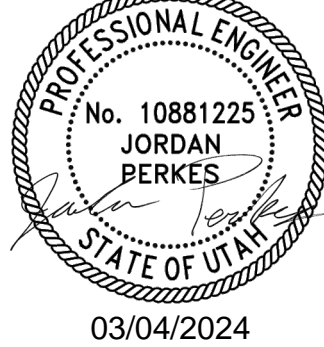
1. All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI).
2. All cold-formed steel connectors shall be provided by The Steel Network. If the contractor elects to substitute for another manufacturer, the contractor shall submit a revised connector list, prior to construction, that includes the following information:
  - a. Specified connector indicated on these plans
  - b. Requested substitution connector
  - c. Allowable capacity of the requested substitution connector
3. Light Gauge Steel Framing:
  - a. Galvanized steel shall meet the minimum requirements of ASTM A653 (Fy = 50 ksi) for 97 mil (12 gauge), 68 mil (14 gauge) and 54 mil (16 gauge). For 43 mil (18 gauge) and lighter galvanized steel shall meet and ASTM A653 (Fy = 33 ksi). Galvanized coatings must meet the ASTM A924.
  - b. Follow all manufacturers' recommendations for the use of these products.
  - c. Unless noted otherwise, all welded connections shall be done according to AWS standards.
  - d. All interior non-bearing steel-stud walls that extend above the ceiling but do not attach to the structure above shall be brace with diagonal metal-stud braces (45 degrees). The k/l/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" o.c. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used.

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



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PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
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REVISIONS

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OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: J.R.  
 CHECKED BY: J.P.  
 DESIGNED BY: J.P.  
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SHEET TITLE:

**GENERAL  
 STRUCTURAL  
 NOTES**

SHEET NUMBER:

**S-002**



**BHB STRUCTURAL**  
 2766 South Main Street  
 Salt Lake City, Utah 84115  
 801-355-5656  
 bhb@bhbenigneers.com

Last Pooled: 3/4/2024 3:57:50 PM



REQUIREMENTS FOR SPECIAL IN GENERAL STRUCTURAL NOTES AND STRUCTURAL OBSERVATION

STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance (including structural testing), as required by section 1704 and 1705 of the 2021 IBC, shall be provided by an independent agency employed by the owner for the items in this section and other areas of the approved construction documents, unless waived by the building official.

The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval.

**Responsibilities of the Special Inspector**  
 Special Inspector shall review all work listed in the special inspection schedules herein for conformance with the approved construction plans, specifications and 2021 IBC.  
 Testing and inspection reports shall be sent on a weekly basis to the architect, engineer, building official and contractor for review. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the architect, engineer and building official.  
 Once corrections have been made by the contractor, the special inspector shall submit a final signed report to the building official stating that the work requiring special inspection was, to the best of the special inspector's knowledge, in conformance with the approved construction plans, specifications and 2021 IBC.

**Responsibilities of the Contractor**  
 The contractor shall submit a written statement of responsibility to the owner and the building official prior to the commencement of work in accordance with 2021 IBC section 1704.4. This statement shall indicate that the contractor will coordinate and cooperate with the required inspections contained herein.  
 The contractor shall notify the designated special inspector that work is ready for inspection at least 24 hours before said inspection is required.  
 All work requiring special inspection shall remain open and accessible until it has been observed by the special inspector and deemed acceptable through inspection report.  
 Special inspection during fabrication is not required if the fabricator is registered and approved by the authority having jurisdiction to perform such work without special inspection. Upon completion of fabrication, the approved fabricator shall submit a certificate of compliance for submittal to the building official.  
 The contractor shall be responsible for their own quality control including materials, fabrication, erection, etc.

STEEL BOLTED CONSTRUCTION INSPECTIONS

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

High Strength bolted connections (2021 IBC section 1705.2.1, section 1705.13.1 and section 1705.14.1 and AISC 360-16 Chapter N and AISC 341-16 Chapter J)

| ITEM FOR VERIFICATION & INSPECTION   | INSPECTION PLAN |              | COMMENTS  |
|--|-----------------|--------------|---|
|  | Every Element   | Random Basis |   |
| <b>Inspection Tasks Prior to Bolting</b>   |                 |              |   |
| Manufacturer's certifications available for fastener materials   | X               | -            |   |
| Fasteners  | -               | X            | Marked in accordance with ASTM requirements   |
| Proper fasteners selected for the joint detail   | -               | X            | Including grade, type, bolt length if threads are to be excluded from shear plane.  |
| Proper bolting procedure selected for joint detail   | -               | X            |   |
| Connecting elements  | -               | X            | Including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements   |
| Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used | -               | X            | Not required if only snug-tight joints are specified per [Section N5.6(1) of AISC 360-16]   |
| Proper storage   | -               | X            | Storage provided for bolts, nuts, washers and other fastener components   |
| <b>Inspection Tasks During Bolting</b>   |                 |              |   |
| Fastener assemblies, of suitable condition   | -               | X            | Verify that fasteners placed in all holes and washers (if required) are positioned as required.   |
| Joint  | -               | X            | Verify that joint brought to the snug-tight condition (min) unless noted otherwise.   |
| Fastener component   | -               | X            | Verify that fastener component not turned by the wrench prevented from rotating.  |
| Pretensioned Fasteners   | -               | X            | Verify that pretensioned fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges (Not required if only snug-tight joints are specified per [Section N5.6(1) of AISC 360-16]; Not required for pretensioned joints using turn-of-the-nut method with match-marking, direct-tension-indicators or twist-off type tension control bolt methods) |
| <b>Inspection Tasks After Bolting</b>  |                 |              |   |
| Document acceptance or rejection of each bolted connection   | X               | -            |   |

STEEL WELDED CONSTRUCTION INSPECTIONS

**Definition of Terms**  
 Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

Structural Welding (2021 IBC section 1705.2.1 and section 1705.13.1 and section 1705.14.1 and AISC 360-16 Chapter N and AISC 341-16 Chapter J)

| ITEM FOR VERIFICATION & INSPECTION   | INSPECTION PLAN |              | COMMENTS  |
|--|-----------------|--------------|---|
|  | Every Element   | Random Basis |   |
| <b>Inspection Tasks Prior to Welding</b>   |                 |              |   |
| Welding procedures specifications and manufacturer certifications for welding consumables shall be available                               | X               | -            | Welding procedures shall be submitted to the Engineer of Record for review.   |
| Material identification (type/grade)   | -               | X            |   |
| Welder identification system   | -               | X            | Verify there is a system in place to identify the welder who has welded a joint or member.  |
| Fit-up of groove welds   | -               | X            | Including joint geometry, joint preparation, dimensions, cleanliness, tacking and backing type and fit.   |
| Configuration and finish of access holes   | -               | X            |   |
| Fit-up of fillet welds   | -               | X            | Including alignment, gaps at root, dimensions, cleanliness and tacking.   |
| Check welding equipment  | -               | X            |   |
| <b>Inspection Tasks During Welding</b>   |                 |              |   |
| Use of qualified welders   | -               | X            |   |
| Control and handling of welding consumables  | -               | X            | Including packaging and exposure control  |
| Cracked tack welds   | -               | X            | Verify no welding over cracked tack welds.  |
| Environmental conditions   | -               | X            | Including wind speed within limits and precipitation and temperature.   |
| WPS followed   | -               | X            | Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH) |
| Welding techniques   | -               | X            | Including interpass and final cleaning, each pass within profile limitations, each pass meets quality requirements  |
| <b>Inspection Tasks After Welding</b>  |                 |              |   |
| Welds cleaned  | -               | X            |   |
| Size, length and location of welds   | X               | -            |   |
| Welds meet visual acceptance criteria  | X               | -            | Including crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut and porosity.   |
| Arc strikes, k-area, weld access holes for flanges greater than 2", backing removed and weld tabs removed (if required), repair activities | X               | -            | When welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3" of the weld.  |

POST-INSTALLED ANCHOR INSPECTIONS

| ITEM FOR VERIFICATION & INSPECTION   | INSPECTION FREQUENCY |          | COMMENTS   |
|--|----------------------|----------|--|
|  | CONTINUOUS           | PERIODIC |  |
| <b>Post-Installed Anchors and Reinforcing Bars (2021 IBC Section 1705.1.1)</b> |                      |          |  |
| Adhesive Anchors and Reinforcing Bars  | X                    | -        | Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of adhesive and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads, special inspection may be reduced to a periodic frequency. |
| Mechanical Anchors and Screw Anchors   | -                    | X        | Special inspection shall be provided per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of mechanical or screw anchor.   |

STRUCTURAL OBSERVATION PROGRAM

If structural observations are required, they shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed in the Construction Notification Phases section of these notes. The structural observer shall visually observe representative locations of structural systems, details and load paths for general conformance with the approved construction documents. Structural observation does not include or waive the responsibility for the special inspections indicated in these structural drawings. At the conclusion of the project, the designated structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that to the best of the structural observer's knowledge have not been resolved (See IBC 2021 1704.6).

| STRUCTURAL OBSERVATION PROGRAM REQUIRED BY CODE: | YES   | NO |
|--|-------|----|
|  | STEEL |    |

CONSTRUCTION MILESTONE SCHEDULE

| CONTRACTOR TO NOTIFY ENGINEER AT THE FOLLOWING CONSTRUCTION PHASES: |   |
|---|---|
| STEEL   |   |
| Roof framing  | After substantial portion of framing is erected |

DEFERRED SUBMITTALS

For the purposes of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC 2021. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building.

DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE

|   |
|---|
| Prefabricated metal buildings                           |
| Seismic Bracing of Mechanical and Electrical Components |

ARCHITECTS INFORMATION



SPE ARCHITECTS  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP  
  
 No. 10881225  
 JORDAN PERKES  
 STATE OF UTAH  
 03/04/2024

CODE OFFICIAL STAMP  
  
 REVIEWED FOR CODE COMPLIANCE  
 03/06/2024  
 JORDAN PERKES  
 ARCHITECT

PROJECT NAME  
 BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

REVISIONS  

| NO. | DATE       | DESCRIPTION     |
|-----|------------|-----------------|
| 1   | 02/05/2024 | PERMIT REVISION |

ISSUED:  

| NO. | DATE       | DESCRIPTION |
|-----|------------|-------------|
| 01  | 02/05/2024 | PERMIT SET  |

OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: J.R.  
 CHECKED BY: J.P.  
 DESIGNED BY: J.P.  
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SHEET TITLE  
 SPECIAL INSPECTIONS

SHEET NUMBER  
 S-003



BHB STRUCTURAL  
 2766 South Main Street  
 Salt Lake City, Utah 84115  
 801-355-5656  
 bhb@bhengineers.com



**LEGEND OF MARKS AND ABBREVIATIONS**

|        |                             |      |                            |
|--------|-----------------------------|------|----------------------------|
| AB     | ANCHOR BOLTS(S)             | k    | KIP(S) = 1000 POUNDS       |
| ABV    | ABOVE                       | KLF  | KIPS PER LINEAL FOOT       |
| ALT    | ALTERNATE                   | KSF  | KIPS PER SQUARE FOOT       |
| APPROX | APPROXIMATE                 |      |                            |
| ARCH   | ARCHITECT(URAL)             | LBS  | POUNDS                     |
|        |                             | LF   | LINEAL FOOT                |
| BLDG   | BUILDING                    | LLH  | LONG LEG HORIZONTAL        |
| BLW    | BELOW                       | LLV  | LONG LEG VERTICAL          |
| BM     | BEAM                        | LSH  | LONG SIDE HORIZONTAL       |
| BOT    | BOTTOM                      | LSV  | LONG SIDE VERTICAL         |
| BRG    | BEARING                     |      |                            |
| BTWN   | BETWEEN                     | MAX  | MAXIMUM                    |
|        |                             | MECH | MECHANICAL                 |
| CC     | CENTER-TO CENTER            | MFR  | MANUFACTURER               |
| C.J.   | CONST/CONTROL JOINT         | MIN  | MINIMUM                    |
| COL    | COLUMN                      | MISC | MISCELLANEOUS              |
| CONC   | CONCRETE                    | MSW  | METAL STUD WALL            |
| CONST  | CONSTRUCTION                |      |                            |
| CTR    | CENTER                      | NIC  | NOT IN CONTRACT            |
| CW-x   | CONCRETE WALL               | NTS  | NOT TO SCALE               |
|        |                             | O.C. | ON CENTER                  |
| DB     | DECK BEARING                | O.F. | OUTSIDE FACE               |
| DBA    | DEFORMED BAR ANCHOR         | OPNG | OPENING                    |
| DBE    | DECK BEARING ELEVATION      | OPP  | OPPOSITE                   |
| DBL    | DOUBLE                      |      |                            |
| DET    | DETAIL                      | PAF  | POWDER-ACTUATED FASTENER   |
| DIA    | DIAMETER                    | PCF  | POUNDS PER CUBIC FOOT      |
| DIM    | DIMENSION                   | PL   | PLATE                      |
| DN     | DOWN                        | PLF  | POUNDS PER LINEAL FOOT     |
| DWG    | DRAWING                     | PSF  | POUNDS PER SQUARE FOOT     |
| DWL    | DOWEL                       | PSI  | POUNDS PER SQUARE INCH     |
|        |                             | PT   | POINT                      |
| (E)    | EXISTING                    | PT   | POINT                      |
| EA     | EACH                        | REQD | REQUIRED                   |
| E.N.   | EDGE NAILING                | R.D. | ROOF DRAIN                 |
| E.F.   | EACH FACE                   | RTU  | ROOF TOP UNITS             |
| E.J.   | EXPANSION JOINT             |      |                            |
| ELEC   | ELECTRICAL                  | SHT  | SHEET                      |
| ELEV   | ELEVATION                   | SI   | SPECIAL INSPECTION         |
| EQUIP  | EQUIPMENT                   | SIM  | SIMILAR                    |
| EQ     | EQUAL                       | SMU  | SUSPENDED MECHANICAL UNITS |
| E.W.   | EACH WAY                    | SDG  | SLAB-ON-GRADE              |
| EXST   | EXISTING                    | SQ   | SQUARE                     |
| EXT    | EXTERIOR                    | STAG | STAGGERED                  |
|        |                             | STD  | STANDARD                   |
| FC-x   | CONTINUOUS FOOTING MARK     | STL  | STEEL                      |
| F.D.   | FLOOR DRAIN                 | STR  | STRUCTURAL                 |
| FDN    | FOUNDATION                  | STS  | SELF TAPPING SCREWS        |
| F.F.   | FINISHED FLOOR              |      |                            |
| FR-x   | RECTANGULAR FOOTING         | T&B  | TOP AND BOTTOM             |
| FS-x   | SQUARE FOOTING MARK         | TEMP | TEMPERATURE                |
| FT     | FOOT                        | THDS | THREADS                    |
| FTG    | FOOTING                     | T.O. | TOP OF                     |
| FTS-x  | THICKENED SLAB MARK         | TOC  | TOP OF CONCRETE            |
|        |                             | TOD  | TOP OF DECK                |
| GA     | GAUGE                       | TOF  | TOP OF FOOTING             |
| GALV   | GALVANIZED                  | TOS  | TOP OF STEEL               |
| GSN    | GENERAL STRUCTURAL NOTES    | TOW  | TOP OF WALL                |
|        |                             | TYP  | TYPICAL                    |
| HORIZ  | HORIZONTAL                  | UNO  | UNLESS NOTED OTHERWISE     |
| HSA    | HEADED STUD ANCHOR          |      |                            |
| HT     | HEIGHT                      | VERT | VERTICAL                   |
|        |                             |      |                            |
| ICC    | INTERNATIONAL CODE COUNCIL  |      |                            |
| IBC    | INTERNATIONAL BUILDING CODE | W/   | WITH                       |
| I.F.   | INSIDE FACE                 | WT   | WALL THICKNESS             |
| IN.    | INCH                        | WWF  | WELDED WIRE FABRIC         |
| INT    | INTERIOR                    | WWM  | WELDED WIRE MESH           |
|        |                             |      |                            |
| JT     | JOINT                       |      |                            |
| JST    | JOIST                       |      |                            |


**MARKS AND SYMBOLS LEGEND**

|  |   |
|--|---|
|  | SECTION MARK  |
|  | SHEET NUMBER  |
|  | INDICATES METAL ROOF DECK. SEE GENERAL STRUCTURAL NOTES ON SHEETS S-001 & S-002 |
|  | INDICATES AREA OF ROOF TO BE REPLACED   |
|  | INDICATES ROOF MECHANICAL UNIT AND HEIGHT OF UNIT                               |
|  | INDICATES FLOOR OFFSET. SEE DETAILS   |

**STRUCTURAL SHEET LIST**

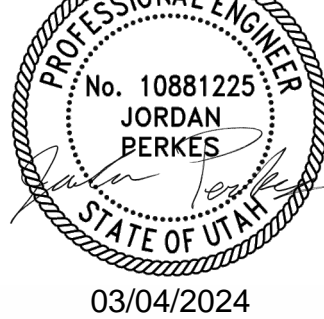
| Sheet Number | Sheet Name                         |
|--------------|------------------------------------|
| S-001        | GENERAL STRUCTURAL NOTES           |
| S-002        | GENERAL STRUCTURAL NOTES           |
| S-003        | SPECIAL INSPECTIONS                |
| S-010        | LEGENDS OF MARKS AND ABBREVIATIONS |
| S-101        | ROOF FRAMING PLAN - AREA A         |
| S-102        | ROOF FRAMING PLAN - AREA B         |
| S-501        | DETAILS                            |
| S-601        | SCHEDULES                          |

**ARCHITECTS INFORMATION**




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1366  
info@spe-architect.com  
www.spe-architect.com

**PROFESSIONAL STAMP**



**CODE OFFICIAL STAMP**



**PROJECT NAME:**

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
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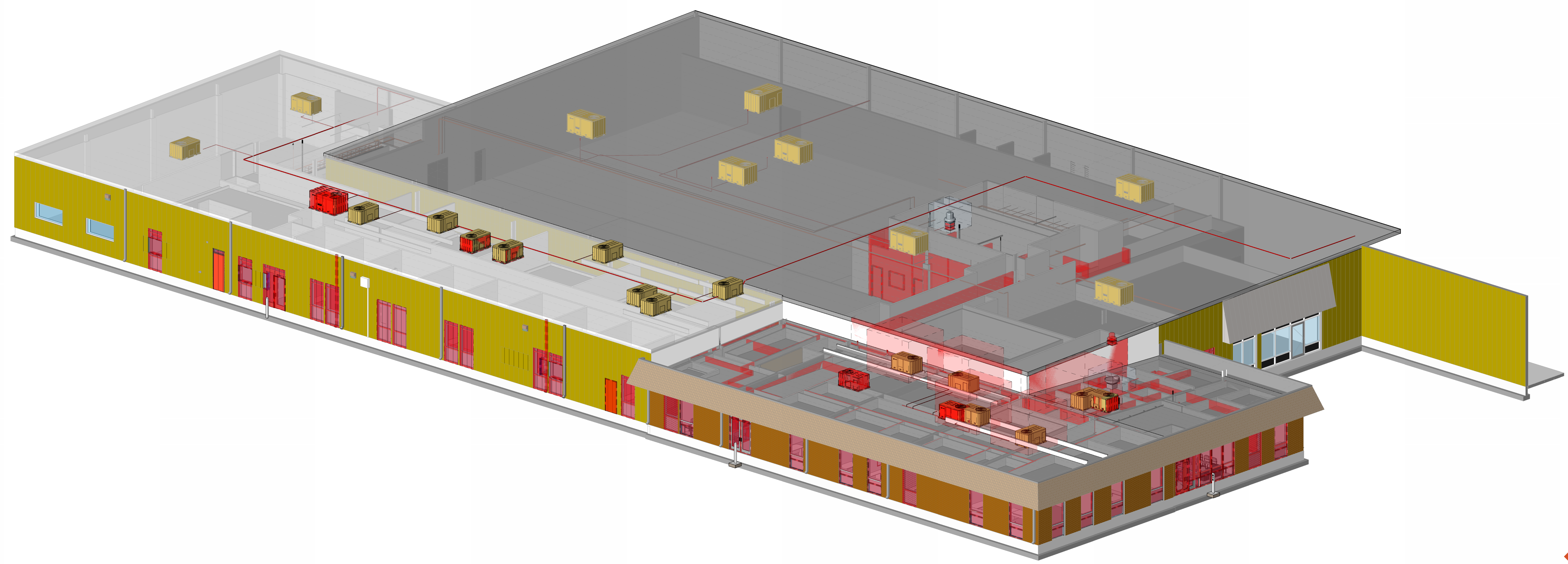
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**SPE PROJECT #:** 22-38  
**DRAWN BY:** J.R.  
**CHECKED BY:** J.P.  
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**SHEET TITLE:**

**LEGENDS OF MARKS AND ABBREVIATIONS**

**SHEET NUMBER:** S-010




**BHB STRUCTURAL**  
2766 South Main Street  
Salt Lake City, Utah 84115  
801-355-5656  
bhb@bhbenigneers.com



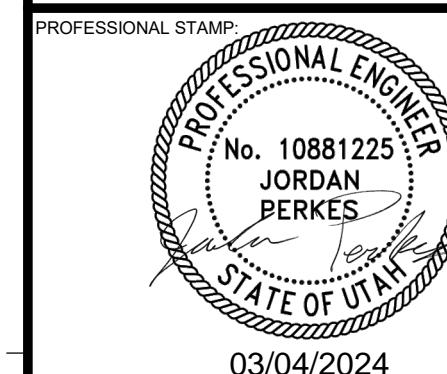






SPE ARCHITECTS

P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1368  
info@spe-architect.com  
www.spe-architect.com



03/04/2024



PROJECT NAME:

BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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J.P.

DESIGNED BY:

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SHEET TITLE:

ROOF FRAMING PLAN - AREA B

SHEET NUMBER:

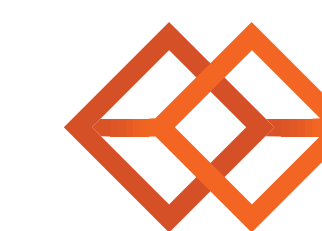
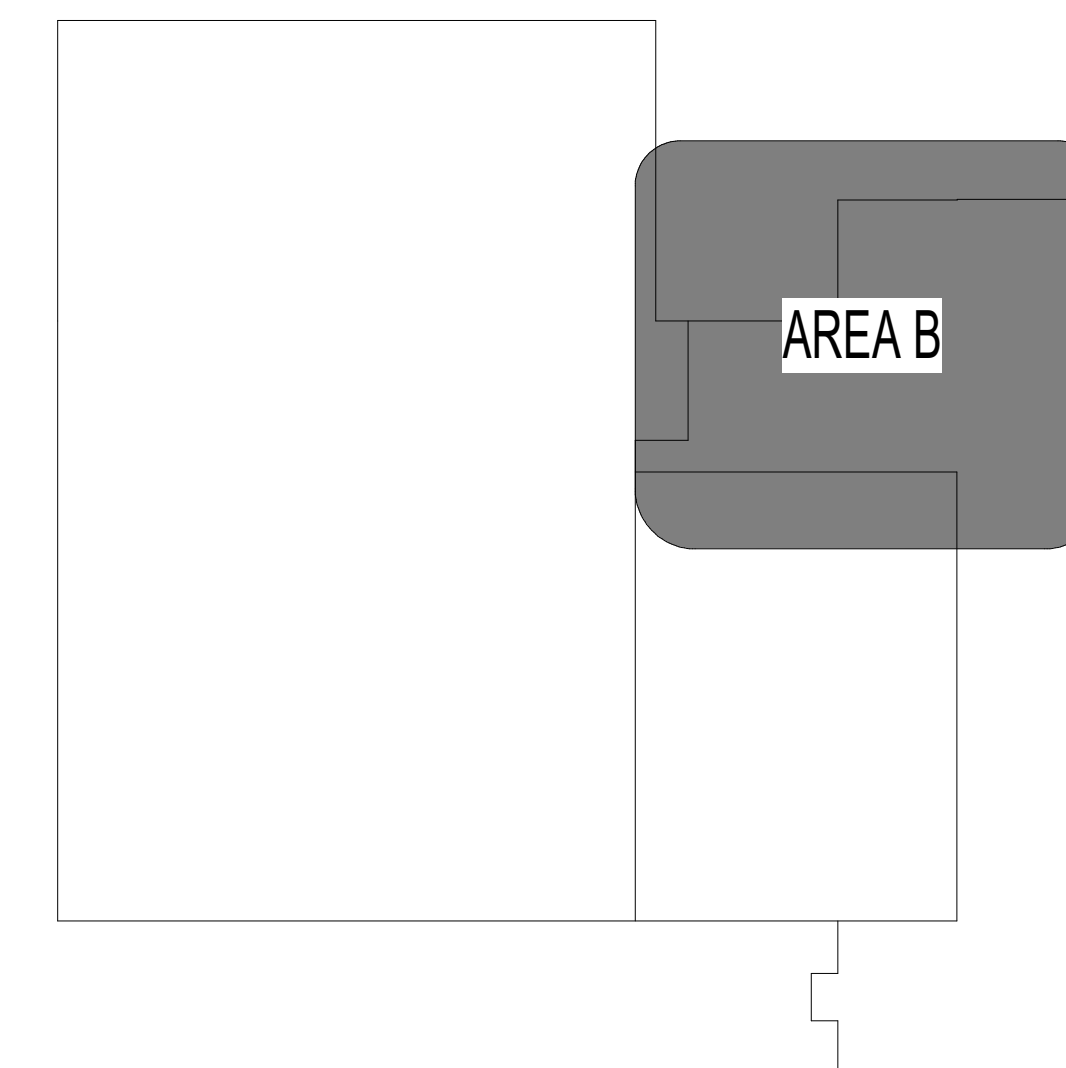
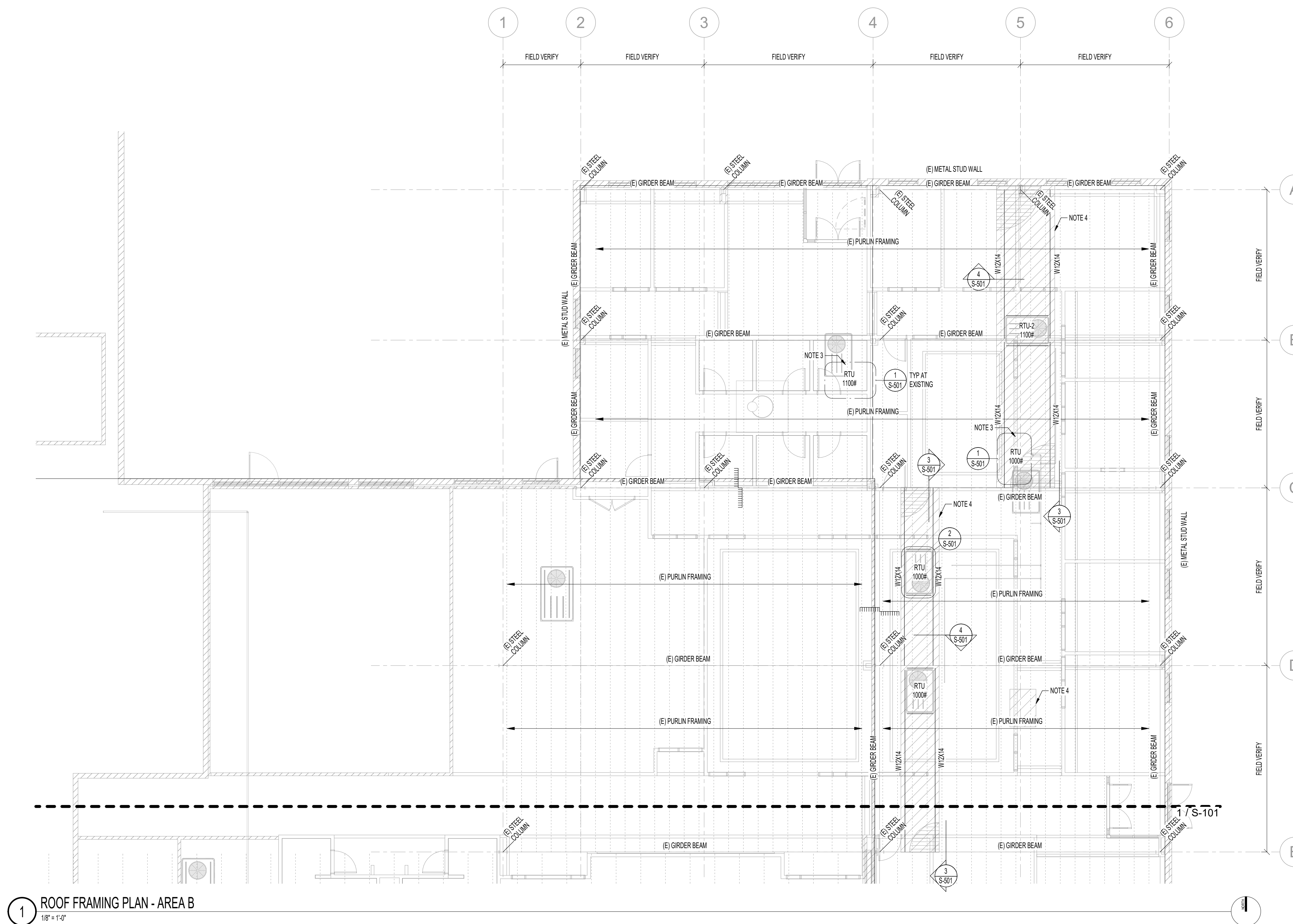
S-102

EXISTING PLAN NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WITH SHOP DRAWINGS OR FIELD INSTALLATION OF ANY STRUCTURAL ELEMENTS. ANY CONFLICTS THAT MIGHT OCCUR BETWEEN ACTUAL CONDITIONS AND THE CONTRACT DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF THE EXISTING STRUCTURE WHERE REQUIRED OR INDICATED.
3. NEW UNIT SHALL NOT INCREASE WEIGHT BY MORE THAN 5% OF THE ORIGINAL UNIT WEIGHT. CONTRACTOR TO VERIFY WEIGHT OF EXISTING UNIT PRIOR TO REMOVAL AND REPLACE WITH NEW UNIT HEAVIER THAN 5% OF THE ORIGINAL WEIGHT PRIOR TO INSTALLATION.
4. HATCH INDICATES PORTION OF ROOF NEEDING NEW PEMB METAL ROOF. PEMB METAL ROOF BY PEMB MANUFACTURER. MANUFACTURER SHALL BE LISTED ON THE PEMB APPROVED FABRICATOR LIST.

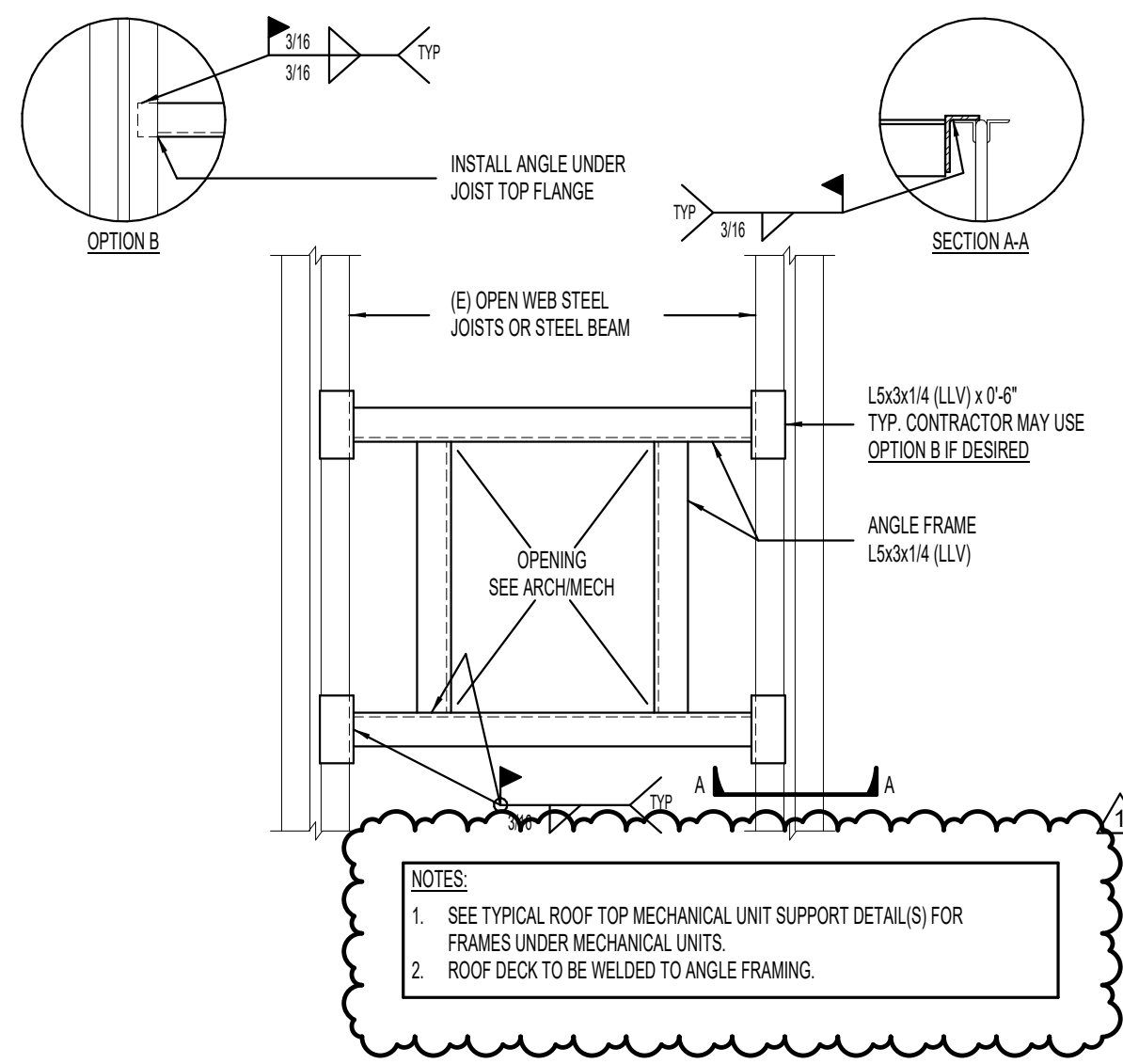
EXISTING CONDITIONS NOTE (TYPICAL)

1. NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE. IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK. IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS WITH THE ARCHITECT (FOR RESOLUTIONS), BEFORE PROCEEDING WITH THE INSTALLATIONS OF NEW WORK.

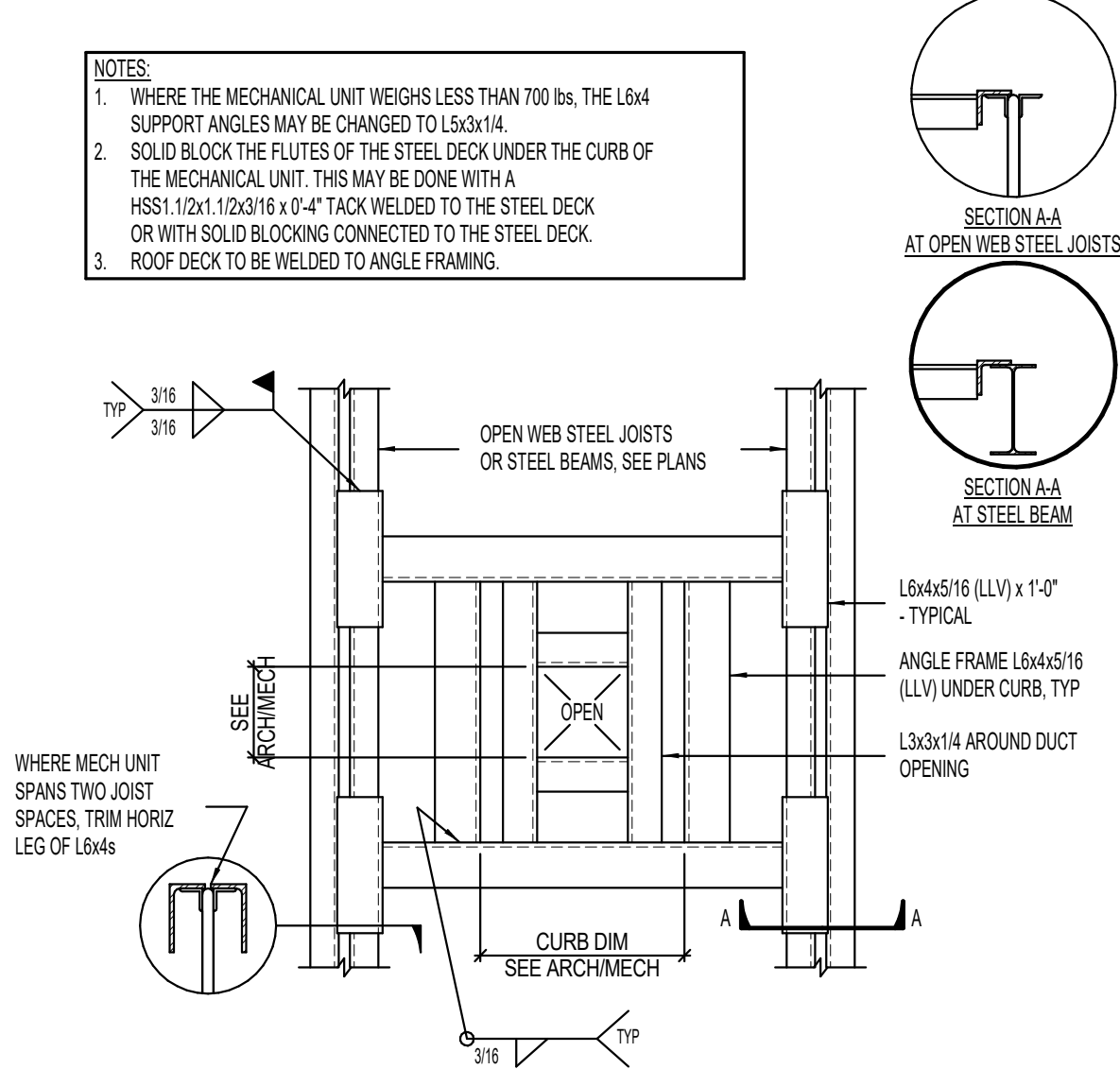


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2766 South Main Street  
Salt Lake City, Utah 84115  
801-355-5656  
bhb@bhbenigneers.com

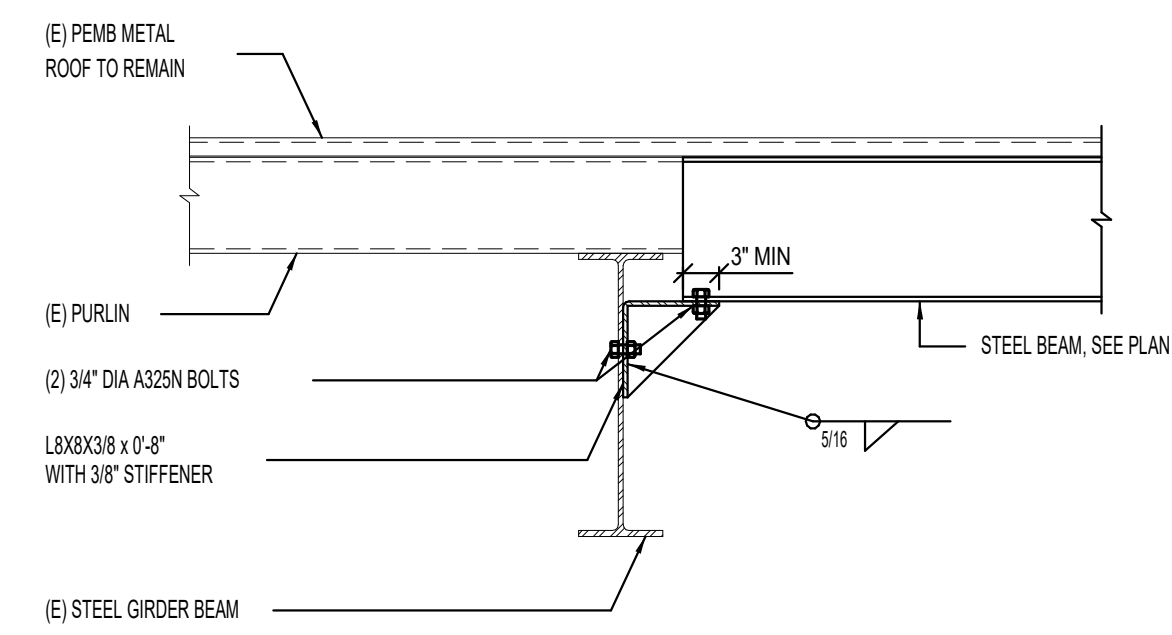




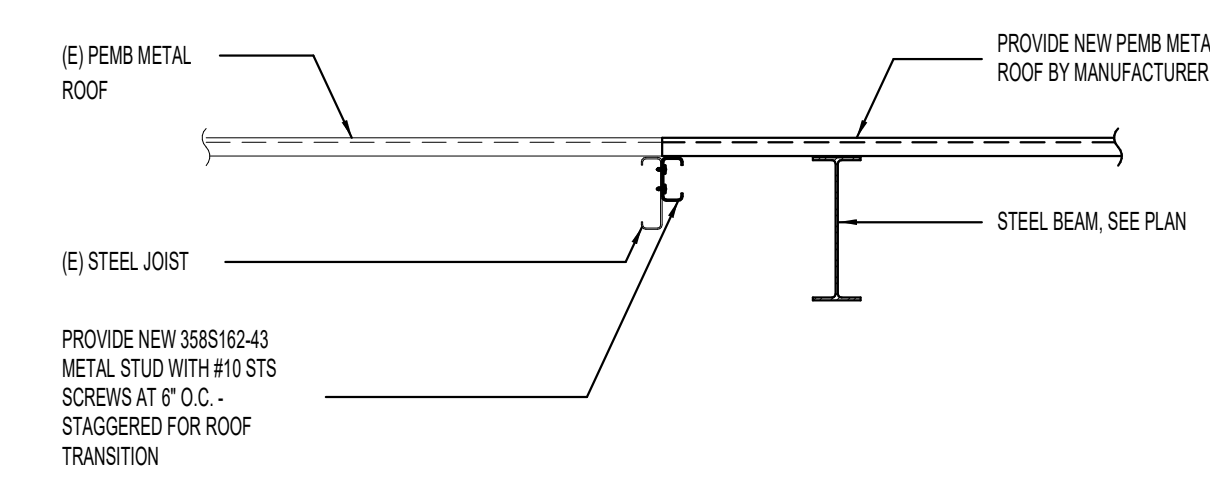
1 TYPICAL ROOF OPENING IN EXISTING ROOF  
[PLAN VIEW] NO SCALE



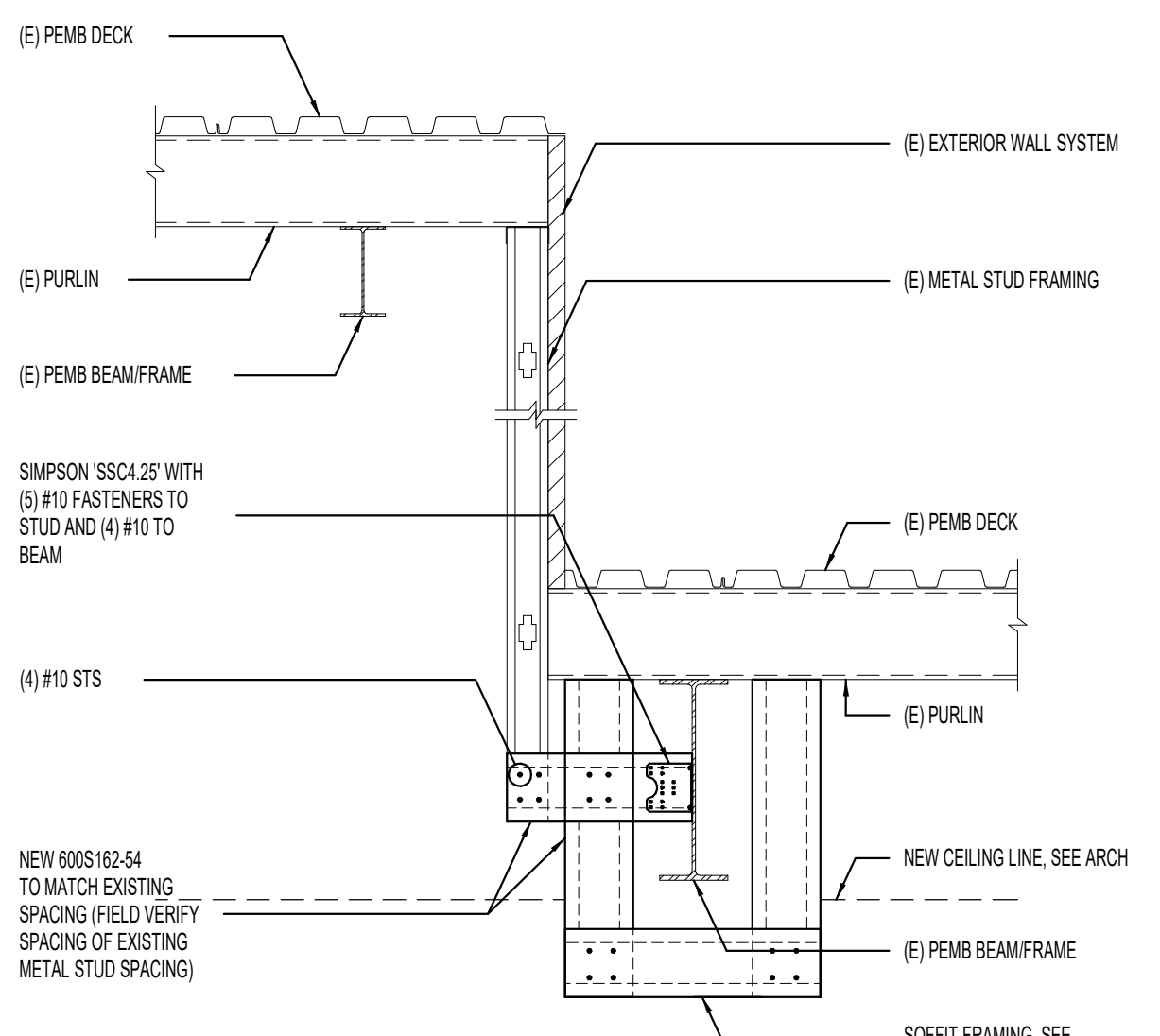
2 TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL  
[PLAN VIEW] NO SCALE



3 STEEL BEAM BEARING AT EXISTING STEEL GIRDER  
NO SCALE



4 METAL DECK TRANSITION DETAIL AT EXISTING METAL  
STUD PURLIN NO SCALE



5 METAL STUD ATTACHMENT DETAIL AT ROOF OFFSET  
NO SCALE

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

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PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

| NO. | DATE       | DESCRIPTION   |
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| 1   | 02/05/2024 | Permit Review |

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|                  |                       |
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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | J.R.                  |
| CHECKED BY:      | J.P.                  |
| DESIGNED BY:     | J.P.                  |
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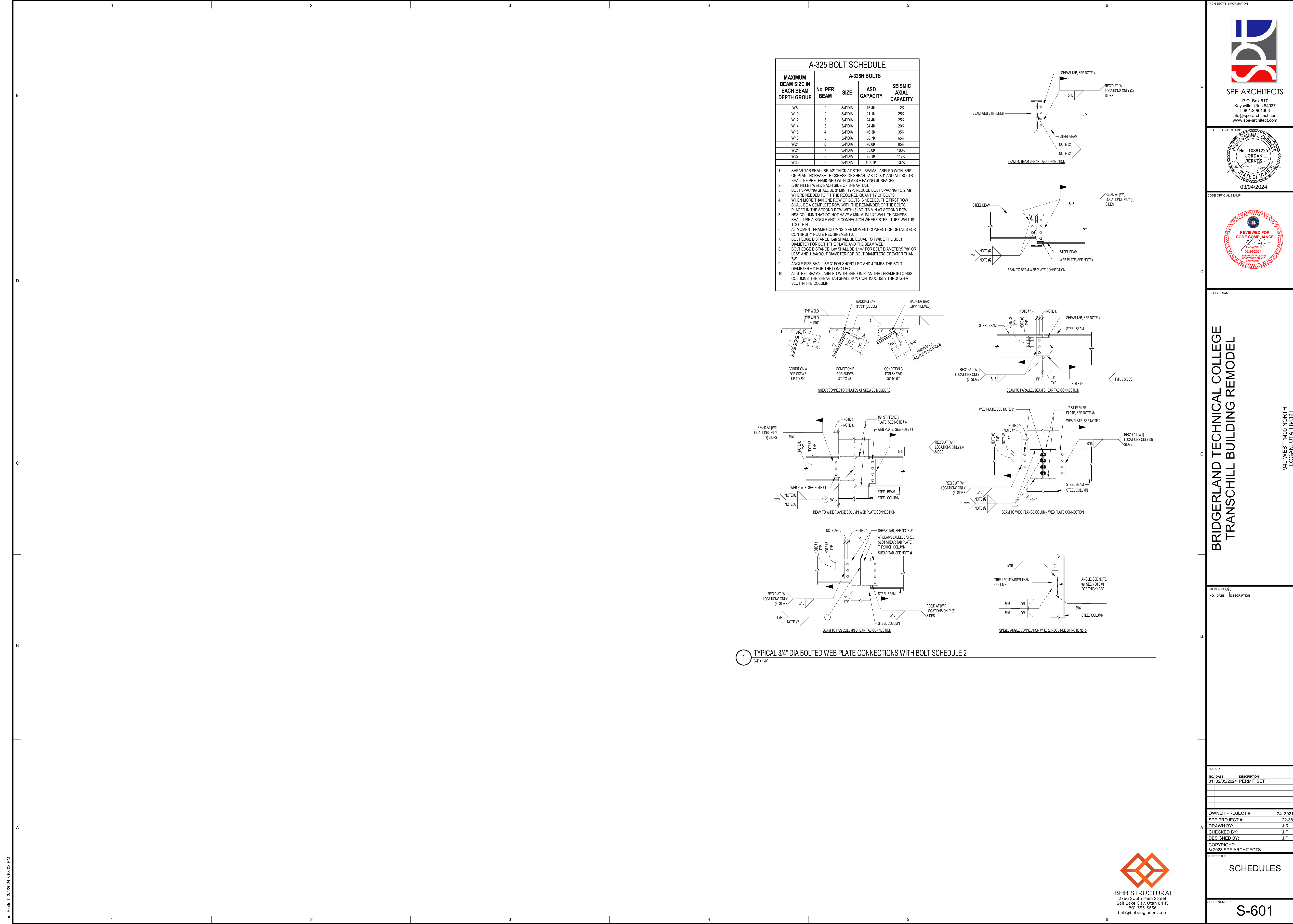
**DETAILS**

SHEET NUMBER

**S-501**

**BHB STRUCTURAL**  
2766 South Main Street  
Salt Lake City, Utah 84115  
801-355-5656  
bhb@bhengineers.com

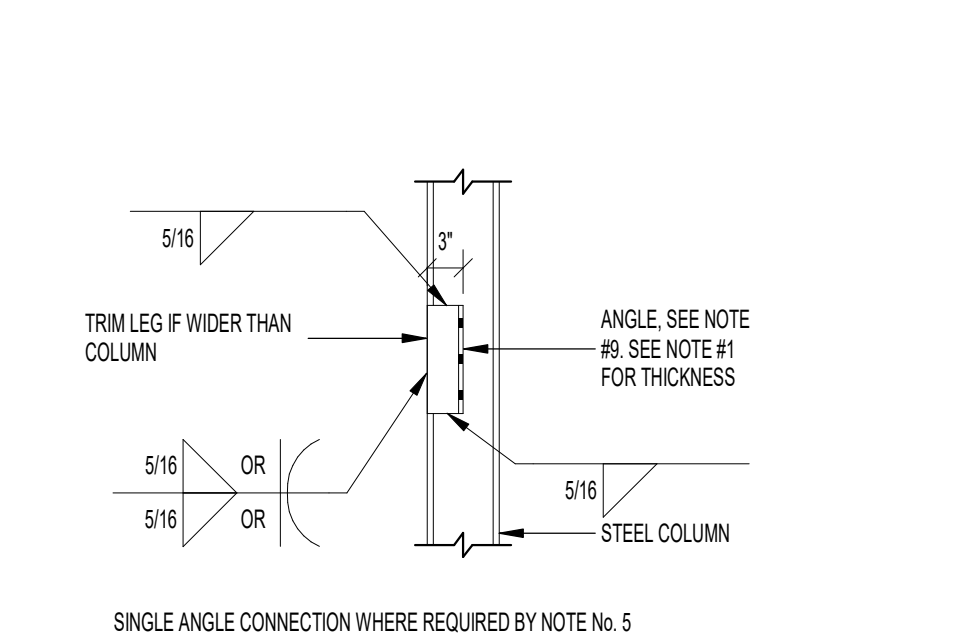
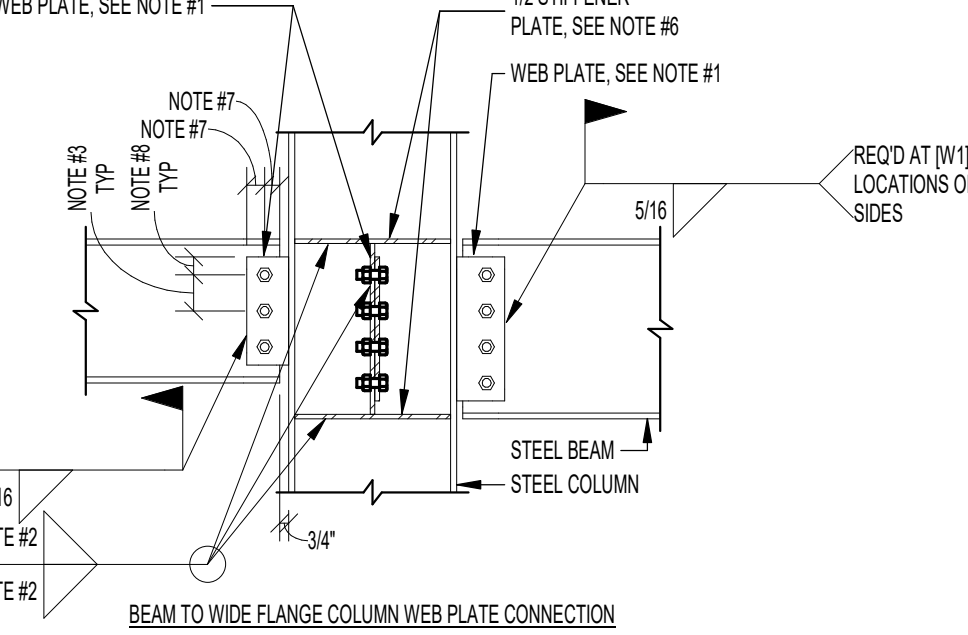
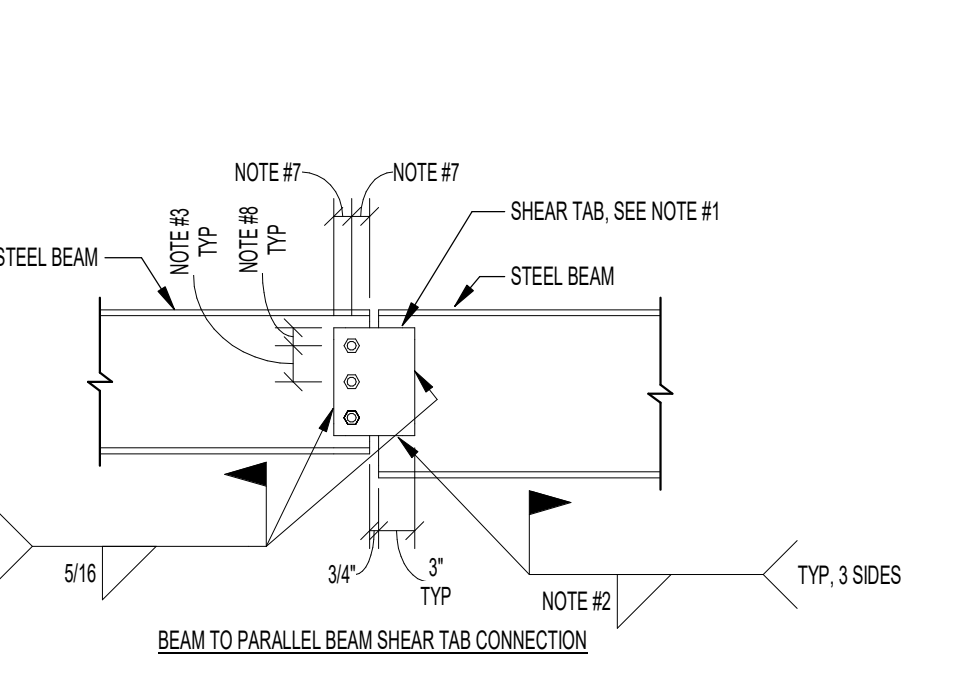
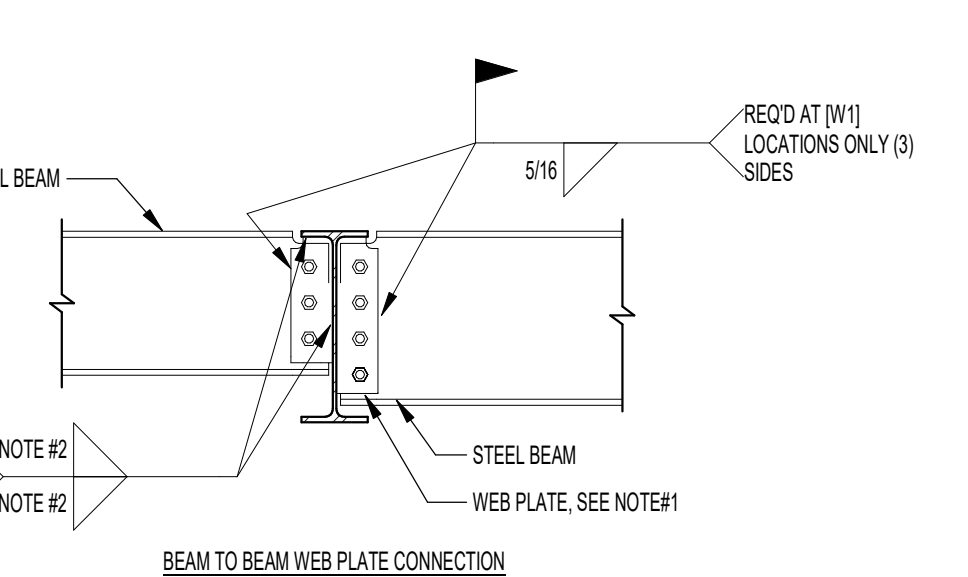
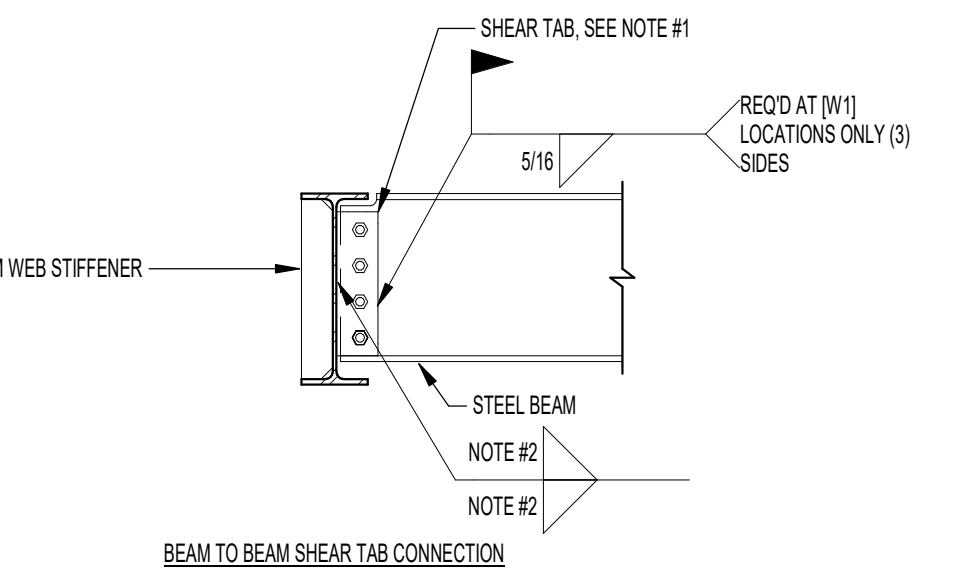
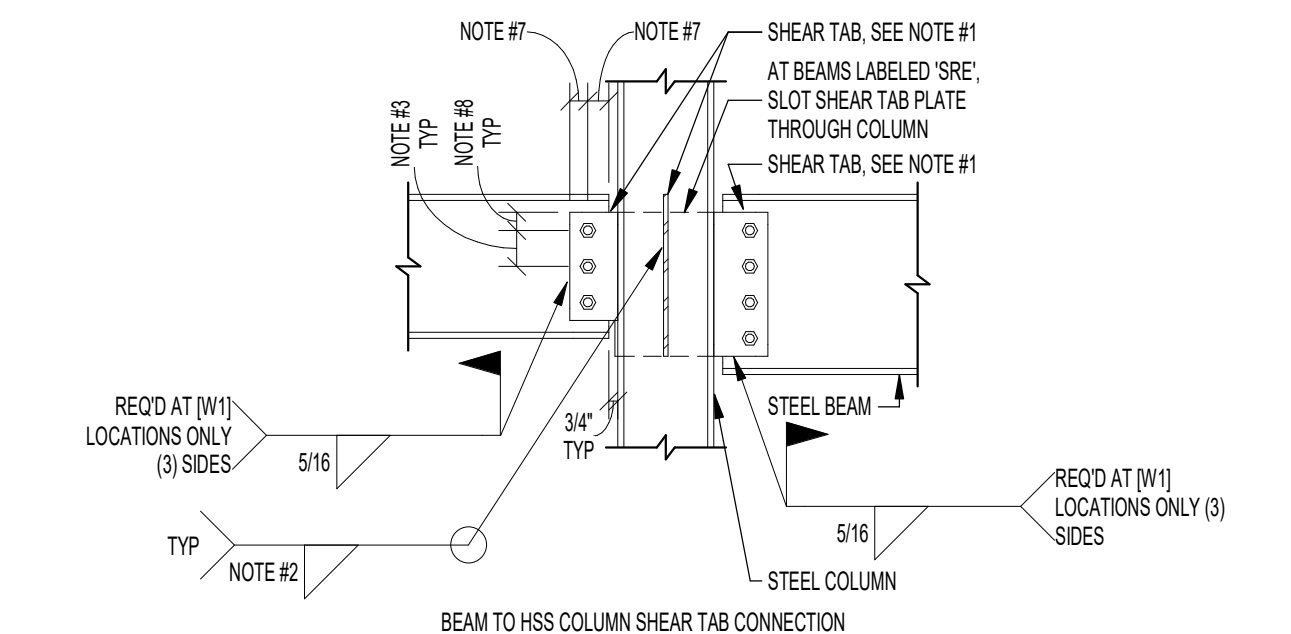
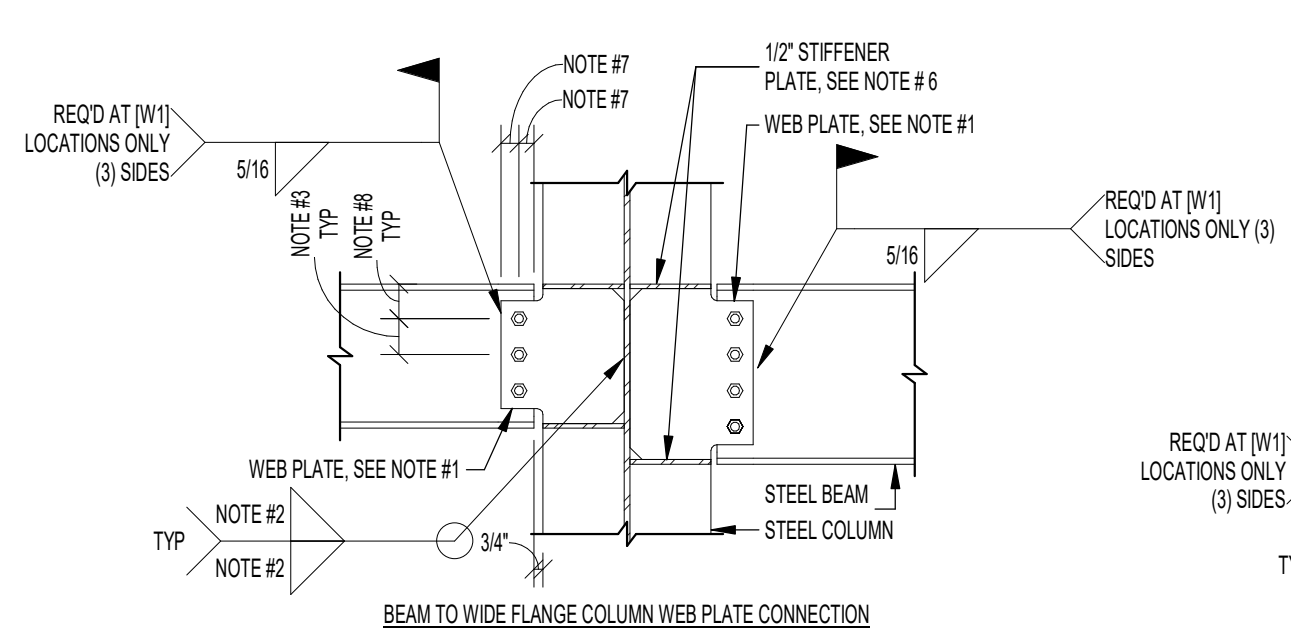
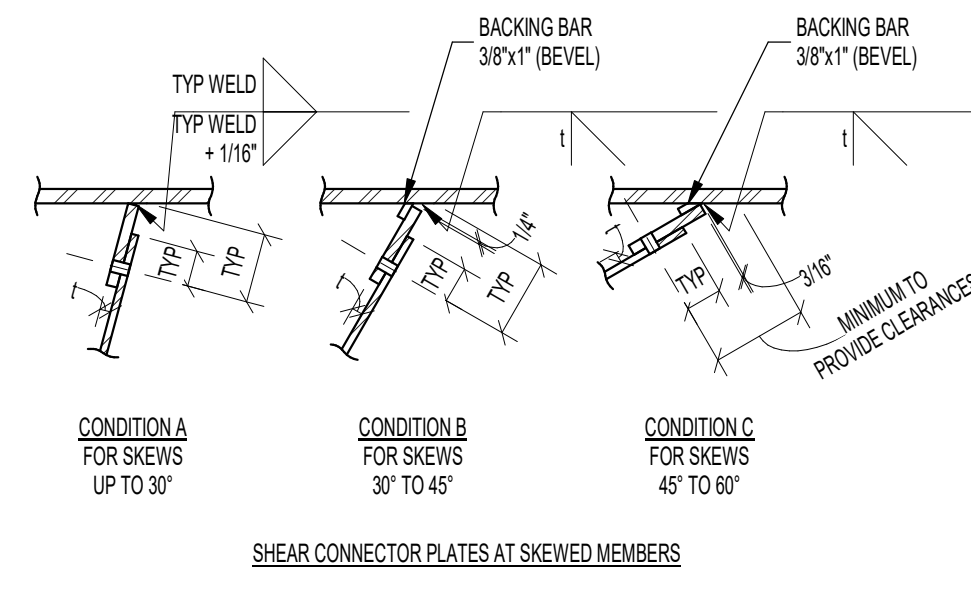




**A-325N BOLT SCHEDULE**

| MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP | A-325N BOLTS |          |              |                        |
|--|--------------|----------|--------------|------------------------|
|  | No. PER BEAM | SIZE     | ASD CAPACITY | SEISMIC AXIAL CAPACITY |
| W8   | 2            | 3/4" DIA | 16.4K        | 12K                    |
| W10  | 2            | 3/4" DIA | 21.1K        | 25K                    |
| W12  | 3            | 3/4" DIA | 24.4K        | 25K                    |
| W14  | 3            | 3/4" DIA | 34.4K        | 20K                    |
| W16  | 4            | 3/4" DIA | 46.3K        | 35K                    |
| W18  | 5            | 3/4" DIA | 58.7K        | 55K                    |
| W21  | 6            | 3/4" DIA | 70.6K        | 85K                    |
| W24  | 7            | 3/4" DIA | 83.0K        | 100K                   |
| W27  | 8            | 3/4" DIA | 95.1K        | 117K                   |
| W30  | 9            | 3/4" DIA | 107.1K       | 132K                   |

- SHEAR TAB SHALL BE 1/2" THICK AT STEEL BEAMS LABELED WITH 'SRE' ON PLAN. INCREASE THICKNESS OF SHEAR TAB TO 3/4" AND ALL BOLTS SHALL BE PRETENSIONED WITH CLASS A FAYING SURFACES.
- 5/16" FILLET WELD EACH SIDE OF SHEAR TAB.
- BOLT SPACINGS SHALL BE 3" MIN. TYP. REDUCE BOLT SPACINGS TO 2.75" WHERE NEEDED TO FIT THE REQUIRED QUANTITY OF BOLTS.
- WHEN MORE THAN ONE ROW OF BOLTS IS NEEDED, THE FIRST ROW SHALL BE A COMPLETE ROW WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND ROW WITH (3) BOLTS MIN AT SECOND ROW. HSS COLUMN THAT DO NOT HAVE A MINIMUM 1/4" WALL THICKNESS SHALL USE A SINGLE ANGLE CONNECTION WHERE STEEL TUBE WALL IS TOO THIN.
- AT MOMENT FRAME COLUMNS, SEE MOMENT CONNECTION DETAILS FOR CONTINUITY PLATE REQUIREMENTS.
- BOLT EDGE DISTANCE, L<sub>EH</sub> SHALL BE EQUAL TO TWICE THE BOLT DIAMETER FOR BOTH THE PLATE AND THE BEAM WEB.
- BOLT EDGE DISTANCE, L<sub>EW</sub> SHALL BE 1.14" FOR BOLT DIAMETERS 7/8" OR LESS AND 1.34x BOLT DIAMETER FOR BOLT DIAMETERS GREATER THAN 7/8".
- ANGLE SIZE SHALL BE 3" FOR SHORT LEG AND 4 TIMES THE BOLT DIAMETER + 1" FOR THE LONG LEG.
- AT STEEL BEAMS LABELED WITH 'SRE' ON PLAN THAT FRAME INTO HSS COLUMNS, THE SHEAR TAB SHALL RUN CONTINUOUSLY THROUGH A SLOT IN THE COLUMN.



1 TYPICAL 3/4" DIA BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE 2  
3/4" x 1/2"

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1369  
info@spe-architect.com  
www.spe-architect.com

**PROFESSIONAL ENGINEER**  
No. 10881225  
JORDAN PERKES  
STATE OF UTAH  
03/04/2024

**REVIEWED FOR CODE COMPLIANCE**  
03/26/2024  
WWW.BHBENGINEERS.COM  
MANAGEMENT

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

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**SCHEDULES**

SHEET NUMBER  
**S-601**

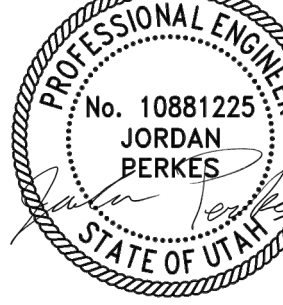






**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801-298-1369  
 info@spe-architect.com  
 www.spe-architect.com

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 TRANSCHILL BUILDING REMODEL**

840 WEST 1400 NORTH  
 LOGAN, UTAH 84321

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SHEET TITLE:

**SCHEDULES**

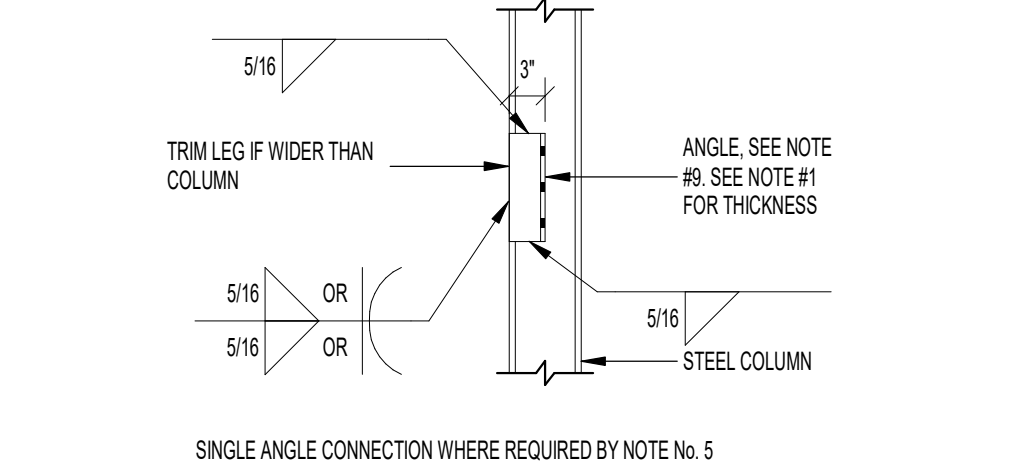
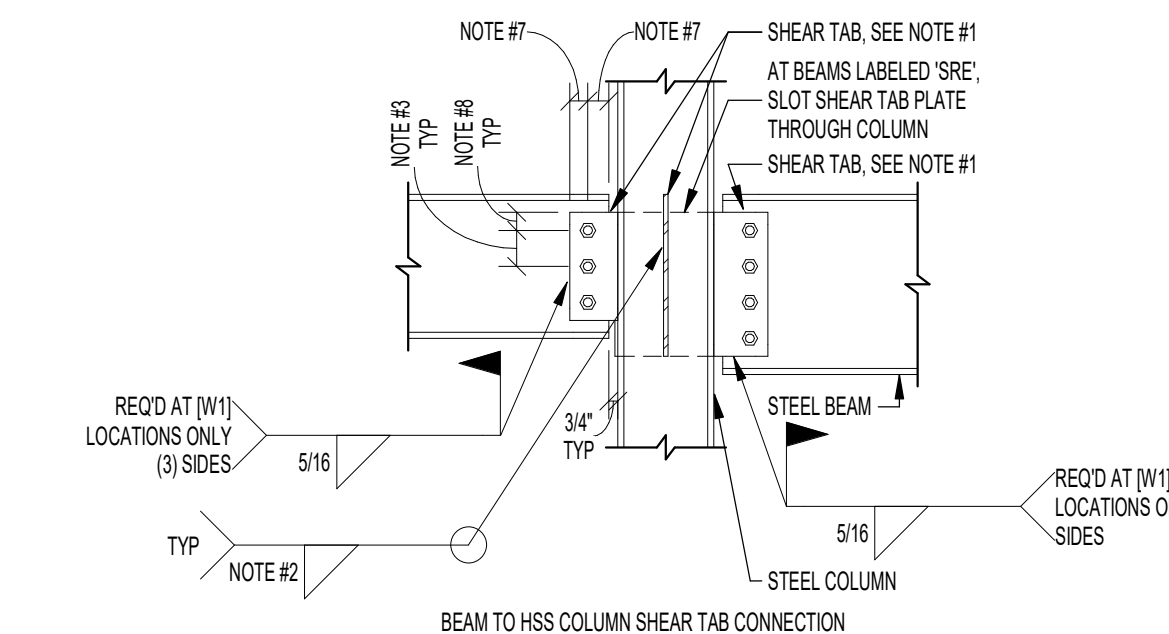
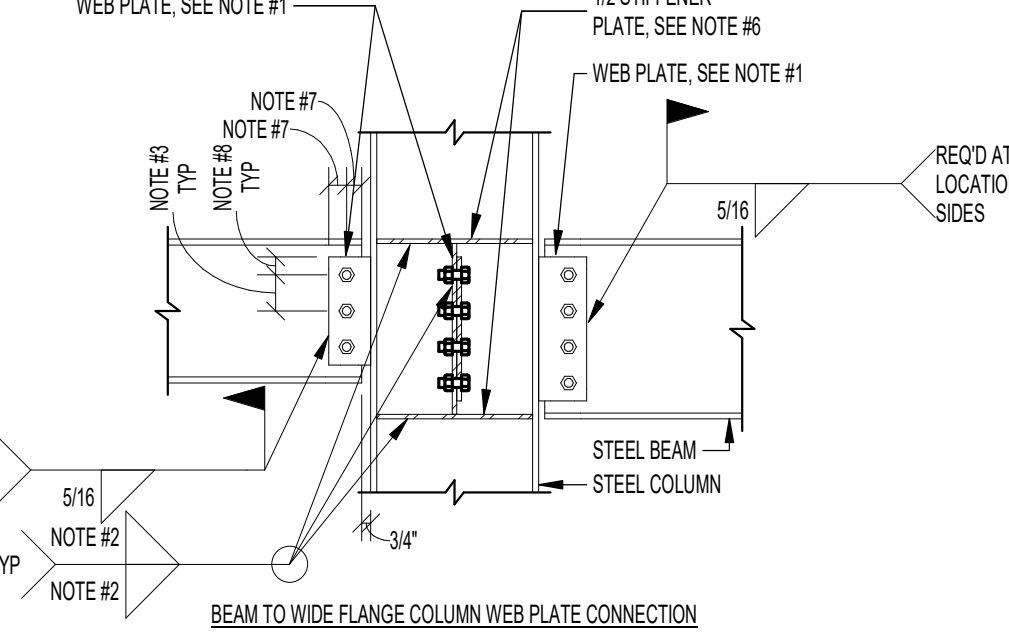
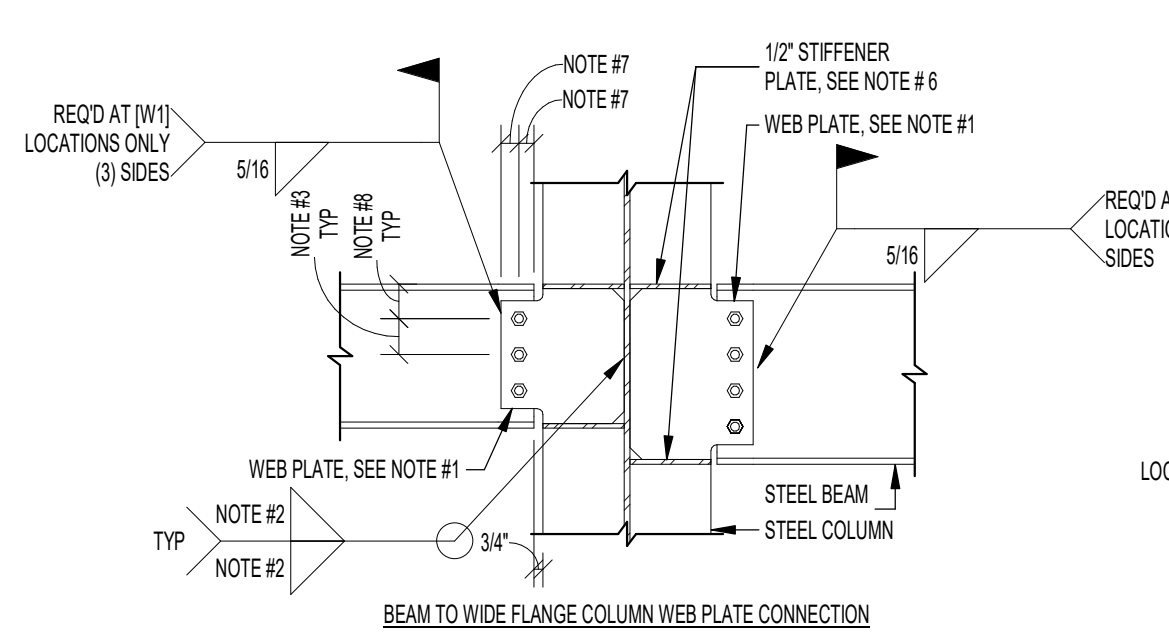
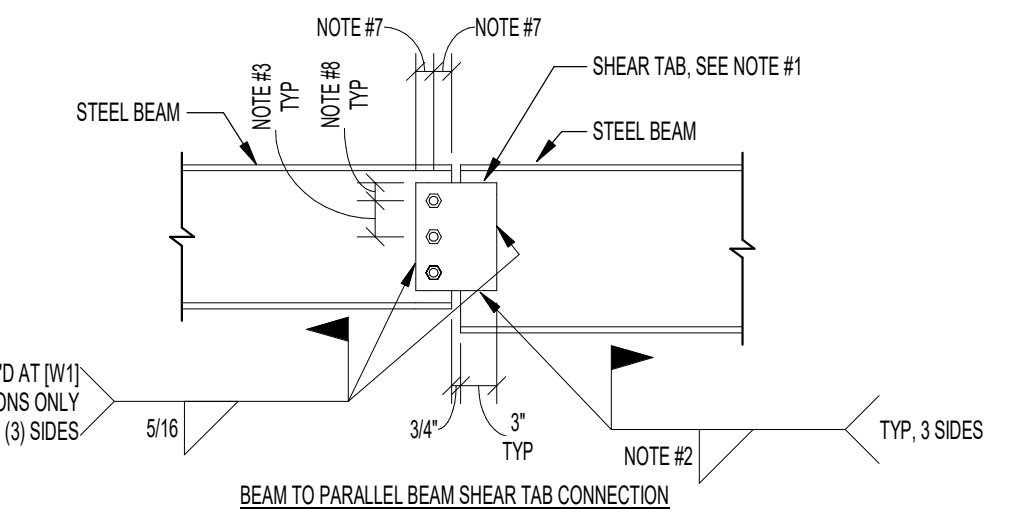
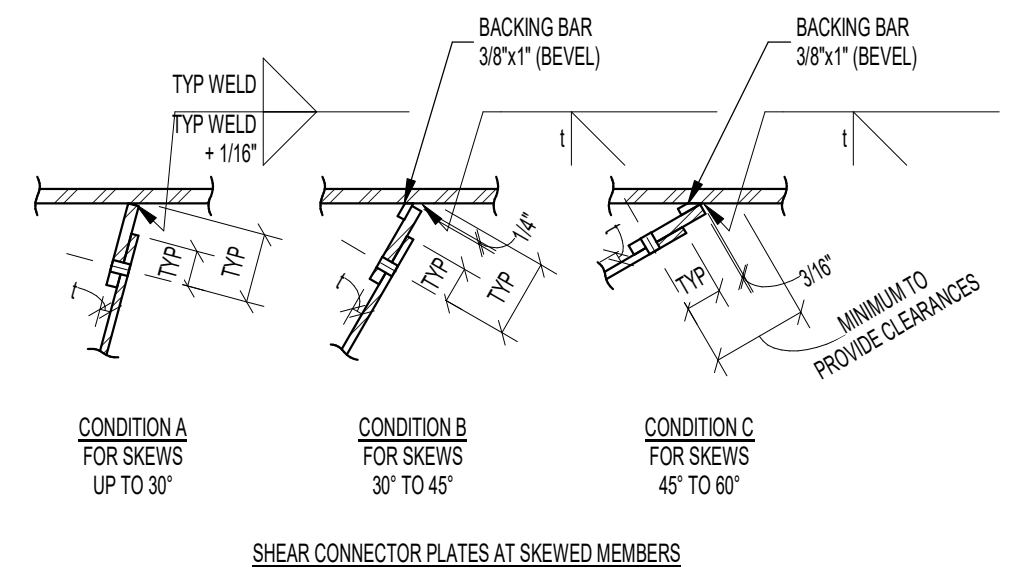
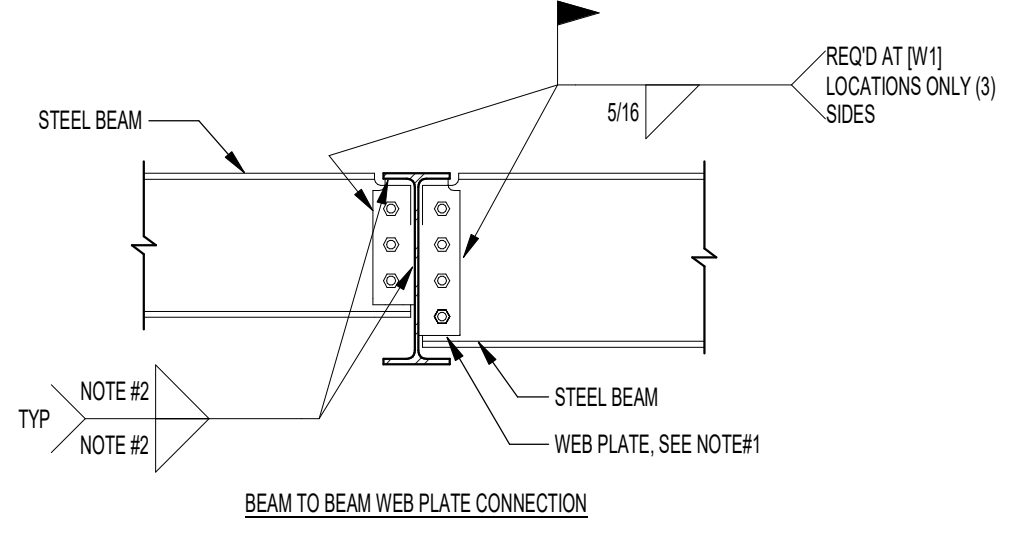
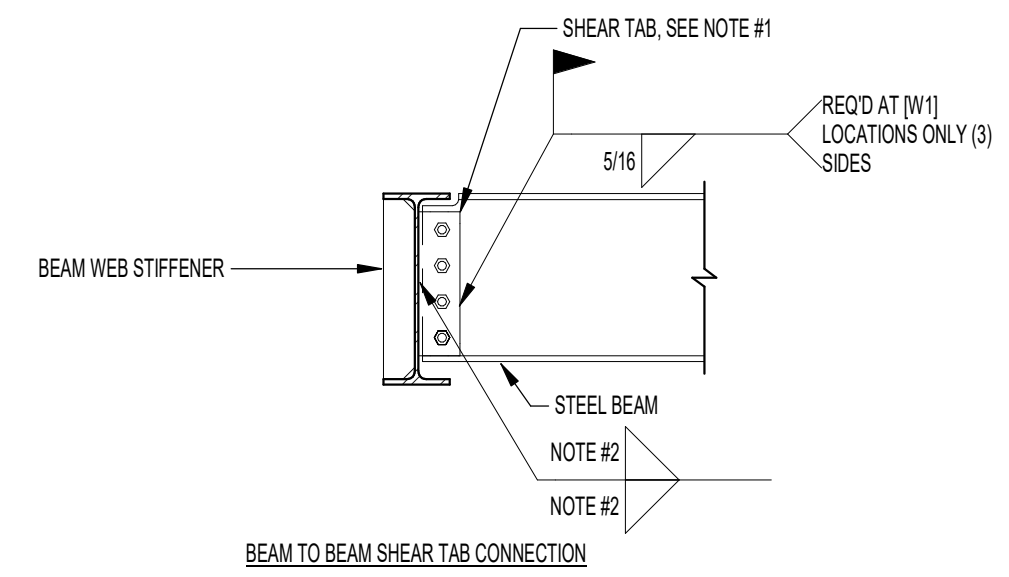
SHEET NUMBER:

**S-601**

**A-325 BOLT SCHEDULE**

| MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP | A-325N BOLTS |          |              |                        |
|--|--------------|----------|--------------|------------------------|
|  | No. PER BEAM | SIZE     | ASD CAPACITY | SEISMIC AXIAL CAPACITY |
| W8   | 2            | 3/4" DIA | 16.4K        | 12K                    |
| W10  | 2            | 3/4" DIA | 21.1K        | 25K                    |
| W12  | 3            | 3/4" DIA | 24.4K        | 25K                    |
| W14  | 3            | 3/4" DIA | 34.4K        | 20K                    |
| W16  | 4            | 3/4" DIA | 46.3K        | 35K                    |
| W18  | 5            | 3/4" DIA | 58.7K        | 55K                    |
| W21  | 6            | 3/4" DIA | 70.6K        | 85K                    |
| W24  | 7            | 3/4" DIA | 83.0K        | 100K                   |
| W27  | 8            | 3/4" DIA | 95.1K        | 117K                   |
| W30  | 9            | 3/4" DIA | 107.1K       | 132K                   |

- SHEAR TAB SHALL BE 1/2" THICK AT STEEL BEAMS LABELED WITH 'SRE' ON PLAN. INCREASE THICKNESS OF SHEAR TAB TO 3/4" AND ALL BOLTS SHALL BE PRETENSIONED WITH CLASS A FAYING SURFACES.
- 5/16" FILLET WELD EACH SIDE OF SHEAR TAB.
- BOLT SPACINGS SHALL BE 3" MIN. TYP. REDUCE BOLT SPACINGS TO 2.75" WHERE NEEDED TO FIT THE REQUIRED QUANTITY OF BOLTS.
- WHEN MORE THAN ONE ROW OF BOLTS IS NEEDED, THE FIRST ROW SHALL BE A COMPLETE ROW WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND ROW WITH (3) BOLTS MIN AT SECOND ROW. HSS COLUMN THAT DO NOT HAVE A MINIMUM 1/4" WALL THICKNESS SHALL USE A SINGLE ANGLE CONNECTION WHERE STEEL TUBE WALL IS TOO THIN.
- AT MOMENT FRAME COLUMNS, SEE MOMENT CONNECTION DETAILS FOR CONTINUITY PLATE REQUIREMENTS.
- BOLT EDGE DISTANCE, L<sub>EH</sub> SHALL BE EQUAL TO TWICE THE BOLT DIAMETER FOR BOTH THE PLATE AND THE BEAM WEB.
- BOLT EDGE DISTANCE, L<sub>WH</sub> SHALL BE 1.14" FOR BOLT DIAMETERS 7/8" OR LESS AND 1.34x BOLT DIAMETER FOR BOLT DIAMETERS GREATER THAN 7/8".
- ANGLE SIZE SHALL BE 3" FOR SHORT LEG AND 4 TIMES THE BOLT DIAMETER + 1" FOR THE LONG LEG.
- AT STEEL BEAMS LABELED WITH 'SRE' ON PLAN THAT FRAME INTO HSS COLUMNS, THE SHEAR TAB SHALL RUN CONTINUOUSLY THROUGH A SLOT IN THE COLUMN.

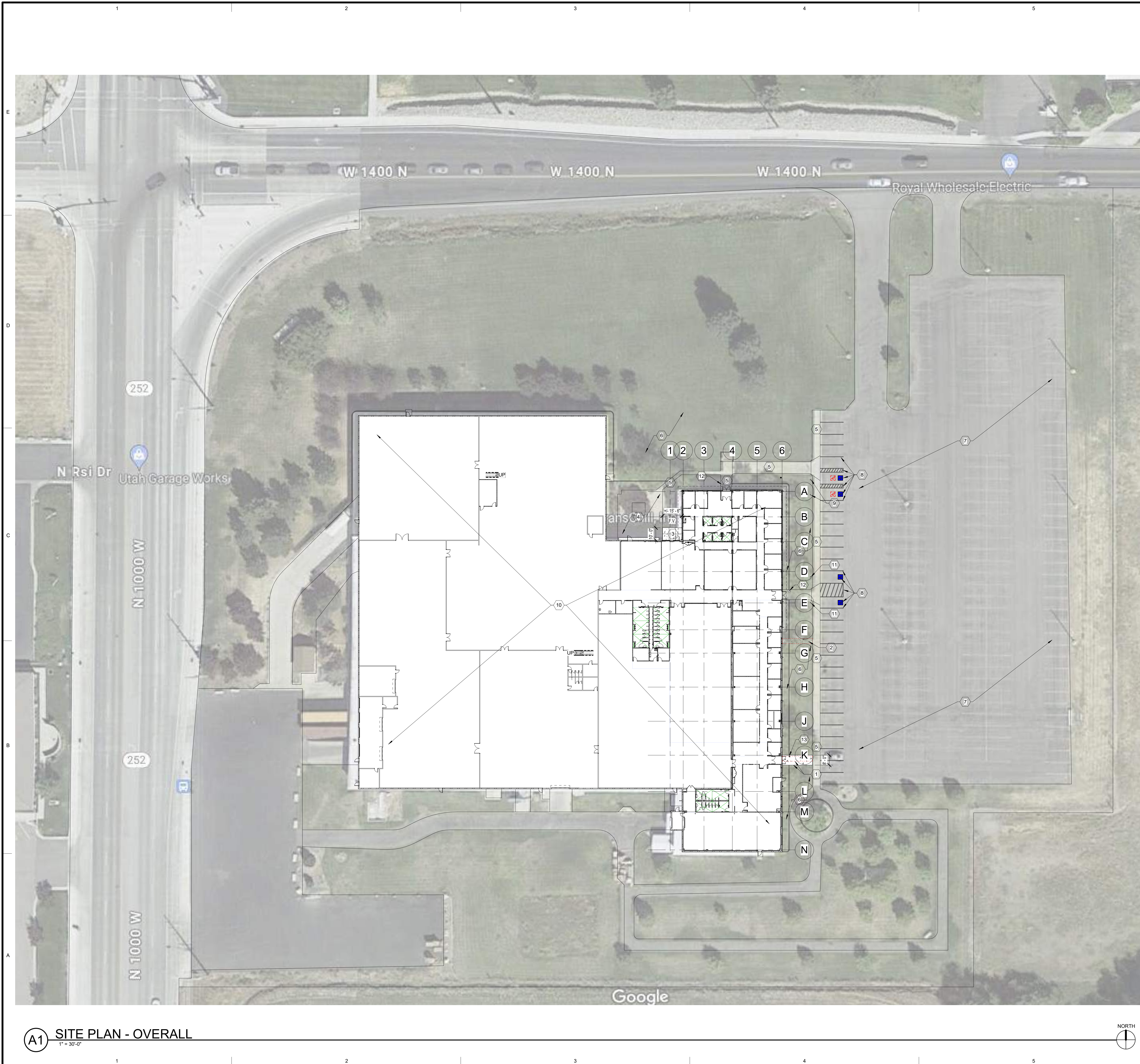


1 TYPICAL 3/4" DIA BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE 2



**BHB STRUCTURAL**  
 2766 South Main Street  
 Salt Lake City, Utah 84115  
 801-355-5656  
 bhb@bhengineers.com

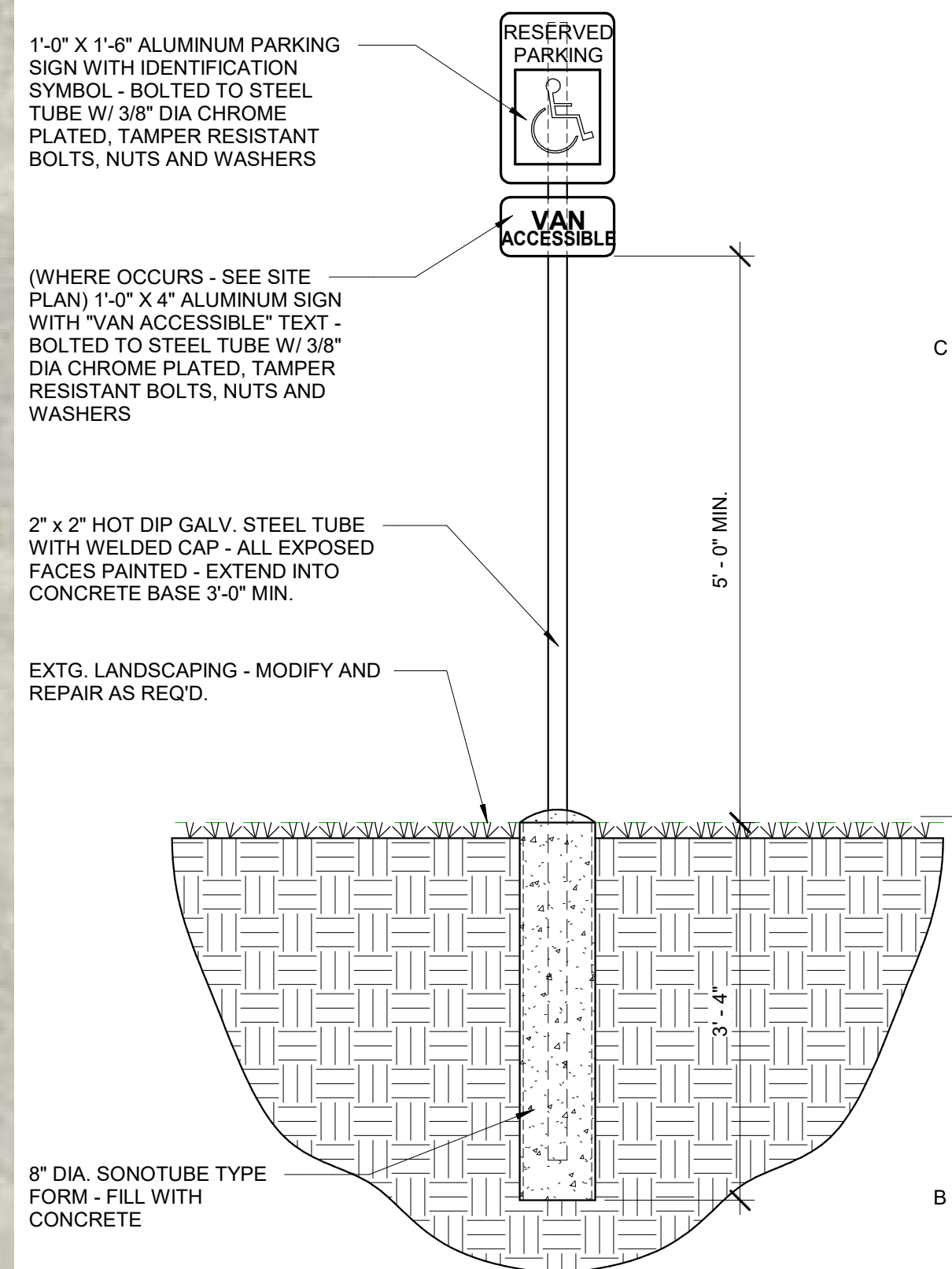




**(A1) SITE PLAN - OVERALL**  
1" = 30'-0"

**KEYED NOTES**

1. AT THIS LOCATION, REMOVE EXISTING 34" - 0" WIDE CONCRETE SIDEWALK AND PROVIDE NEW 6" - 0" WIDE CONCRETE SIDEWALK OVER NEW 4" GRAVEL BASE - MODIFY EXISTING LANDSCAPING, CONCRETE CURBING, IRRIGATION SYSTEM ETC. AS REQ'D - MODIFY GRADE AS REQ'D. TO PERFORM NEW WORK - WEST END OF NEW SIDEWALK MUST BE FLUSH WITH INTERIOR FLOOR SLAB AND EAST END MUST BE FLUSH WITH EXISTING NORTH / SOUTH SIDEWALK - NO MORE THAN 2% SLOPE TO BE ALLOWED IN ANY DIRECTION - FIELD VERIFY AND COORDINATE ALL RELATED WORK AS REQ'D.
2. AT THIS LOCATION, REMOVE EXISTING 4'-4" - 0" WIDE CONCRETE SIDEWALK AND GRAVEL BASE - LEVEL GRADE AS REQ'D. TO MATCH ADJACENT LANDSCAPING AREAS - PATCH LAWN WITH NEW SOD - WHERE SIDEWALK IS REMOVED, PROVIDE NEW CONCRETE LANDSCAPE CURBING TO MATCH EXISTING ADJACENT CURBING.
3. AT THIS LOCATION, PROVIDE NEW CONCRETE WALK OVER NEW 4" GRAVEL BASE - REMOVE EXISTING SHRUBS / LANDSCAPING IN THE AREA OF NEW WALK - MODIFY EXISTING IRRIGATION SYSTEM AND GRADE AS REQ'D. TO PERFORM NEW WORK - PROVIDE POSITIVE SLOPE AWAY FROM THE BUILDING WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION - SOUTH END OF SLAB TO ALIGN WITH INTERIOR FLOOR SLAB AND WEST END SHALL BE LEVEL WITH EXISTING ADJACENT SLAB - FIELD VERIFY AND COORDINATE ALL RELATED WORK AS REQ'D.
4. EXISTING COURTYARD CONCRETE PAVING AND LANDSCAPING TO REMAIN AND BE PROTECTED FROM DAMAGE (U.N.O.)
5. EXISTING CONCRETE WALK TO REMAIN AND BE PROTECTED FROM DAMAGE.
6. UNLESS NOTED OTHERWISE, EXISTING LANDSCAPING INCLUDING LAWN, TREES, SHRUBS, IRRIGATION SYSTEM, CONCRETE LANDSCAPE CURBING ETC. TO REMAIN AND BE PROTECTED FROM DAMAGE.
7. EXISTING PARKING LOT TO REMAIN AND BE PROTECTED FROM DAMAGE - UNLESS NOTED OTHERWISE, NO NEW PAINT STRIPING REQUIRED.
8. EXISTING ADA PAINTED PARKING STRIPING AND ACCESSIBLE RAMP IN SIDEWALK TO REMAIN - AT ADA PARKING LOCATIONS ONLY, PAINT / RE-PAINT ADA PARKING STRIPING AND ACCESSIBLE LOGOS ON ASPHALT PAVING - REMOVE EXTG. PAINTED ADA LOGOS PRIOR TO PAINTING NEW - PAINTED LOGOS TO BE 48"
9. EXISTING POLE MOUNTED ADA PARKING SIGNAGE TO REMAIN.
10. EXISTING BUILDING - COORDINATE NEW WORK WITH PLANS FOUND IN THIS SET OF DRAWINGS.
11. PROVIDE NEW POLE MOUNTED ADA PARKING SIGNAGE - SOUTHERN MOST STALL TO BE LABELED AS VAN ACCESSIBLE - SEE 06/AS-101.
12. NEW ADA DOOR OPERATOR / PEDESTAL - MODIFY EXISTING CONCRETE WALK AS REQUIRED FOR INSTALLATION.
13. NEW ADA DOOR OPERATOR / PEDESTAL.



**(B6) PARKING SIGN - ADA**  
3/4" = 1'-0"

**GENERAL NOTES**

- A. CONTRACTOR SHALL COMPLY WITH SAFETY REQUIREMENTS CONTAINED IN THE GENERAL CONDITIONS.
- B. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROTECTION OF PEDESTRIANS AS REQUIRED IN 2021 IBC, CHAPTER 33, SECTION 3306. A SUBMITTAL FOR THIS SHALL BE REQUIRED INCLUDING DRAWINGS & STRUCTURAL CALCULATIONS AS REQ'D. BY CODE - THIS MAY INCLUDE WALKWAYS, DIRECTIONAL BARRICADES, CONSTRUCTION RAILINGS, BARRIERS, COVERED WALKWAYS AND PROCEDURES FOR REPAIR, MAINTENANCE AND REMOVAL OF PROTECTION ELEMENTS.
- C. CONTRACTOR SHALL MAINTAIN SITE IN A MANNER THAT WILL NOT POSE A HAZARD TO EMPLOYEES, CONTRACTORS, VISITORS TO THE SITE, OR NEIGHBORING OFF SITE PROPERTY.
- D. CONTRACTOR IS TO COMPLY WITH ALL OSHA SAFETY RULES AND REGULATIONS FOR SAFETY.
- E. ALL EXTG. SPACES AND PROPERTIES ADJACENT TO DEMOLITION / CONSTRUCTION / STORAGE AREAS SHALL REMAIN CLEAN. ANY DEBRIS SHALL BE REMOVED FROM WORK AREAS DAILY. IF REQUIRED, CLOSE OFF EXTG. MECHANICAL SUPPLY RETURN TO PREVENT DUST/DEBRIS FROM ENTERING/EXITING CONSTRUCTION AREA. COORDINATE W/ BUILDING MAINTENANCE STAFF.
- F. CONTRACTOR TO REMOVE, STORE AND PROTECT EXTG. MOVEABLE ITEMS (TYP.). COORDINATE WITH OWNER FOR RELOCATION OR RE-USE.
- G. CONTRACTOR TO REPAIR AND/OR REPLACE ANY ITEMS IN OR ON THE BUILDING, OR WITHIN PROJECT SITE THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING THE CONSTRUCTION PROCESS.

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1360  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

REVISIONS

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

| ISSUED: | NO. | DATE     | DESCRIPTION |
|---------|-----|----------|-------------|
|         | 01  | 02/05/24 | PERMIT SET  |

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SPE PROJECT #: 22-38  
DRAWN BY: GTE  
CHECKED BY: SPE  
DESIGNED BY: SPE  
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SHEET TITLE

**SITE PLAN**

SHEET NUMBER

**AS-101**

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**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**EXISTING CONCRETE SLAB PREP. (TYPICAL):**

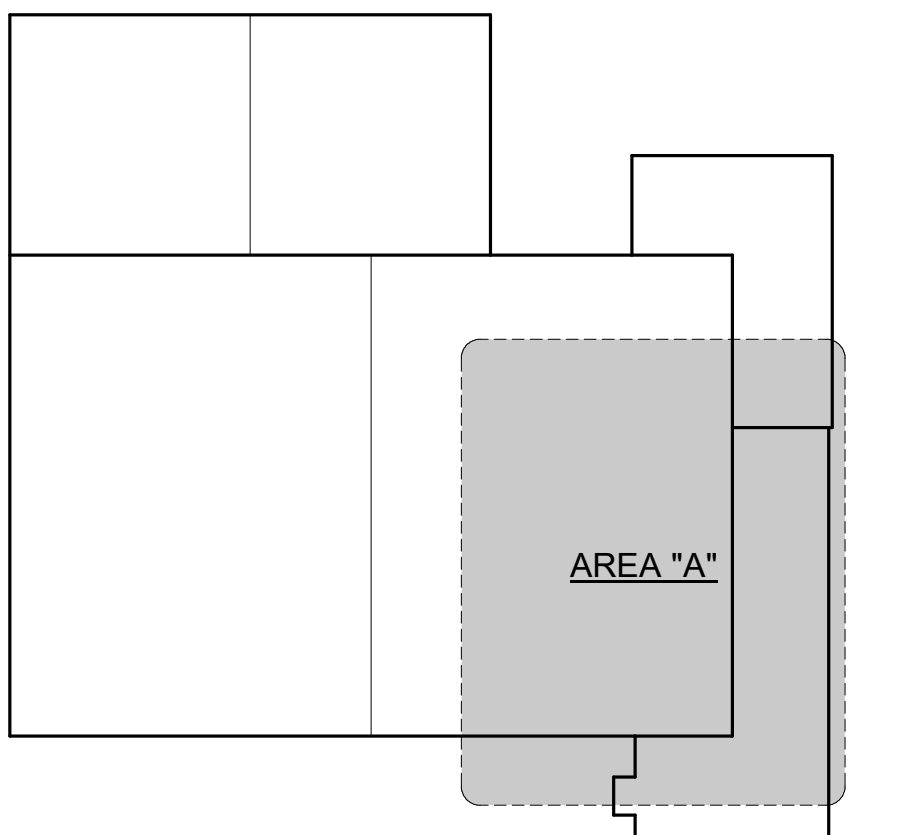
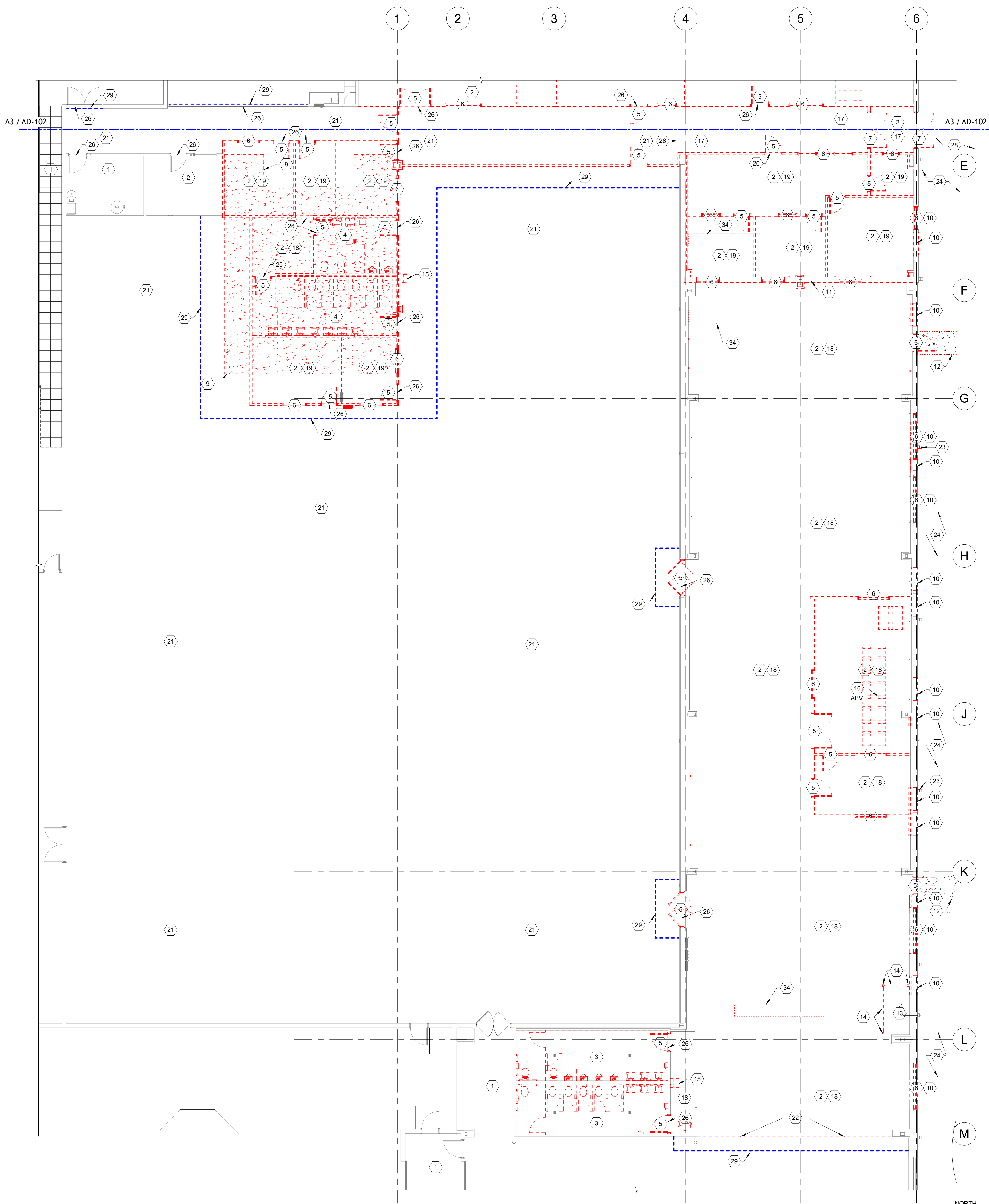
NOTE THAT ALL EXISTING INTERIOR CONCRETE SLABS THAT ARE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE PREPARED (GROUND / LEVELED / PATCHED / REPAIRED) AS REQUIRED BY NEW FLOORING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS, AS WELL AS TO NOT ALLOW FOR ANY EXISTING SLAB IMPERFECTIONS TO BE PERCEPTIBLE ONCE NEW FLOORING SYSTEMS ARE IN PLACE - FIELD VERIFY ALL SUCH WORK AND COORDINATE AS REQ'D.

**EXISTING CONCRETE MODIFICATIONS (TYPICAL):**

NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT / REMOVED OR OTHERWISE MODIFIED (WHETHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAYED / RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING UNDER SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR - COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQ'D. TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH / INFILL SAWCUT AREAS PER DS/AE-505 - COORDINATE WITH MEP DRAWINGS

**KEYED NOTES** REFERENCE AD-101 & AD-102

- EXISTING SPACE - NO NEW ARCHITECTURAL WORK UNLESS NOTED OTHERWISE - COORDINATE WITH MEP DRAWINGS REQ'D.
- DASHED RED ELEMENTS IN THIS AREA ARE TO BE DEMOLISHED - THIS INCLUDES BUT IS NOT LIMITED TO WALLS THAT ARE SHOWN DASHED / RED, WALL BASE, CEILING, ETC. - SEE SEPARATE NOTES FOR REMOVAL OF EXTG. FLOORING SYSTEMS - WALLS THAT ARE NOT SPECIFICALLY SCHEDULED TO BE DEMOLISHED ARE TO BE MODIFIED, PATCHED, REPAIRED, REFINISHED AS REQ'D TO PERFORM NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE - COORDINATE AS REQ'D. - COORDINATE WITH MEP DRAWINGS
- DASHED RED ELEMENTS IN THIS AREA ARE TO BE DEMOLISHED - THIS INCLUDES BUT IS NOT LIMITED TO FRP PANELING, SHEET FLOORING, LAVATORIES, URINALS, TOILETS, TOILET / URINAL PARTITIONS, GRAB BARS, TOWEL DISPENSERS, SOAP DISPENSERS, MIRRORS, TOILET PAPER DISPENSERS, OTHER MISC. ELEMENTS, ETC. - UNLESS NOTED OTHERWISE, EXISTING CYP. BR. WALLS / CEILING ARE TO BE REFINISHED AS REQ'D. EXISTING WALLS AND CEILING ARE TO BE DEMOLISHED FOR NEW WORK AND FOR A FLUSH, FINISHED APPEARANCE - COORDINATE WITH MEP DRAWINGS
- DASHED RED ELEMENTS IN THIS AREA ARE TO BE DEMOLISHED - THIS INCLUDES BUT IS NOT LIMITED TO EXISTING WALLS, FINISHES, PLUMBING FIXTURES, TOILET ACCESSORIES ETC. - COORDINATE WITH MEP DRAWINGS
- EXISTING DOOR / FRAME / HARDWARE TO BE REMOVED - WHERE NEW DOOR IS SCHEDULED TO BE INSTALLED IN AN EXISTING OPENING, MODIFY WALL AS REQ'D. TO ACCOMMODATE NEW DOOR SIZE
- EXISTING WINDOW TO BE REMOVED
- EXISTING ALUMINUM STOREFRONT ENTRANCE SYSTEM TO BE REMOVED
- SAWCUT / REMOVE EXISTING WALL SYSTEM AS REQ'D. FOR INSTALLATION OF NEW WINDOW SYSTEM - SALVAGE AND CLEAN EXTG. BRICKS FOR REUSE IN AREAS SCHEDULED FOR BRICK INFILL - FIELD VERIFY ALL AFFECTED BUILDING SYSTEMS AND COORDINATE AS REQUIRED
- EXISTING CONCRETE SLAB IN THIS AREA IS TO BE SAWCUT AND REMOVED - NEW REPLACEMENT SLAB IS TO BE 4" CONCRETE OVER 4" GRAVEL BASE - WHERE NEW RESTROOMS OCCUR, NEW SLAB IS TO BE RECESSED 2" FROM SURROUNDING SLABS TO ALLOW FOR INSTALLATION OF NEW THICKSET FLOOR TILE / SETTING BED SYSTEM - COORDINATE AS REQ'D.
- EXISTING PEMB WALL SYSTEM TO BE MODIFIED AS REQ'D. FOR NEW SCHEDULED DOORS / WINDOW SYSTEMS - CAREFULLY CUT OUT EXISTING PEMB WALL PANEL AND SALVAGE FOR REUSE IN AREAS REQUIRING WALL INFILL WORK - MODIFY / PREP EXISTING PEMB FRAMING, AND OTHER EXISTING BUILDING SYSTEMS / FINISHES AS REQUIRED TO PERFORM NEW WORK - FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE AS REQ'D.
- EXISTING WALL TO BE REMOVED - SEE SECTIONS AND STRUCTURAL DRAWINGS FOR NEW WORK - NOTE THAT THIS WALL WAS FORMALLY AN EXTERIOR BUILDING WALL - AS SUCH, CAREFUL FIELD VERIFICATION AND COORDINATION OF EXISTING BUILDING SYSTEMS / COMPONENTS ETC. MUST OCCUR PRIOR TO DEMOLITION OF THIS WALL - WHERE EXISTING FOUNDATION WALL IS EXPOSED BENEATH THE WALL, GRIND FLUSH AND PREPARE AS REQ'D. FOR NEW SCHEDULED FLOORING SYSTEMS
- REMOVE EXISTING SIDEWALK IN THIS AREA - MODIFY / PATCH / REPAIR EXTG. LANDSCAPING, IRRIGATION SYSTEM, CONCRETE LANDSCAPE CURBING ETC. AS REQ'D. - WHERE NEW SIDEWALK IS SCHEDULED, PREP NEW SIDEWALK AREA AS REQ'D.
- EXISTING FIRE RISER TO REMAIN AND BE PROTECTED FROM DAMAGE.
- EXISTING STEEL POSTS AND RELATED STEEL BARRICADE FRAMING TO BE REMOVED
- EXISTING ELECTRIC WATER COOLER TO BE REMOVED - COORDINATE WITH MEP DRAWINGS.
- EXISTING ELECTRICAL WIRE RACEWAY TO REMAIN AND BE PROTECTED FROM DAMAGE - SEE ELECTRICAL DRAWINGS.
- EXISTING TILE FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL MORTAR SETTING BEDS, TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
- EXISTING VCT FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL ADHESIVES / TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
- EXISTING CARPET FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL ADHESIVES / TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
- EXISTING LAMINATE PLANK FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL ADHESIVES / TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
- EXISTING EPOXY / PAINTED FLOORING SYSTEM TO REMAIN WITH THE EXCEPTION OF: REMOVAL OF ANY LOOSE OR DAMAGED AREAS THAT WOULD AFFECT THE INSTALLATION OF THE NEW SCHEDULED FLOORING SYSTEM - PREP ANY DAMAGED AREAS OF EXTG. CONCRETE SLAB AS FOR NEW SCHEDULED FLOORING SYSTEM.
- TRANSITION LINE OF EXISTING VCT FLOORING REMOVAL - REMOVE EXISTING VCT FLOORING NORTH OF THIS LINE, LEAVING THE EXISTING VCT FLOORING IN PLACE SOUTH OF THIS LINE - EXPOSED TRANSITION SHALL BE DONE CAREFULLY AND NEATLY.
- EXISTING DOWNSPOUT TO BE CAREFULLY REMOVED AND RELOCATED (OR REPLACED WITH NEW) - MODIFY / PATCH / REPAIR EXTG. RAINGUTTER AS REQ'D. - SEE NEW PLAN AND EXTERIOR ELEVATIONS.
- EXISTING LANDSCAPING, IRRIGATION SYSTEM AND OTHER EXISTING EXTERIOR IMPROVEMENTS (NOT SHOWN) ARE TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQUIRED WHERE AFFECTED BY NEW WORK.
- REMOVE EXISTING WALL BASE IN THIS SPACE - PREP EXTG. WALLS AS REQ'D. FOR NEW BASE
- LINE OF TRANSITION BETWEEN EXISTING FLOORING TYPES - COORDINATE AS REQ'D.
- REMOVE EXISTING STONE VENEER / METAL STUD FRAMED WALL SYSTEM.
- EXTG. CONCRETE SIDEWALK TO REMAIN AND BE PROTECTED FROM DAMAGE.
- CONTRACTOR IS TO PROVIDE A DUST / DEBRIS BARRIER AS REQ'D. TO KEEP NON PROJECT AREAS CLEAN
- EXISTING PRV WATER STATION TO BE RELOCATED - SEE PLUMBING DRAWINGS - SAWCUT / PATCH / REPAIR EXISTING CONCRETE SLAB AS REQ'D.
- REMOVE / MODIFY EXTG. WALL AS REQ'D. TO PERFORM NEW PLUMBING WORK - REBUILD / REFINISH AS REQ'D FOR A FLUSH FINISHED FINAL APPEARANCE.
- NOTE THAT THE EXISTING TILE WALL WAINSCOT IN THIS SPACE CONTAINS LEAD AND IS TO BE ABATED BY THE OWNERS HAZARDOUS MATERIALS ABATEMENT TEAM (UNDER SEPARATE CONTRACT) - THE ABATEMENT TEAM SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXISTING ELEMENTS AS REQUIRED TO FULLY EXPOSE AND ACCESS ALL WALL TILE FOR REMOVAL - SUCH ITEMS MAY INCLUDE BUT NOT BE LIMITED TO, LAVATORIES, COUNTERS, SOAP DISPENSERS, PARTITION BRACKETS, MISC. TOILET ACCESSORIES ETC. - FINAL DISPOSAL OF NON LEAD CONTAINING ELEMENTS THAT WERE REMOVED BY THE ABATEMENT TEAM SHALL BE THE RESPONSIBILITY OF THIS CONTRACT - CONTRACTOR IS TO FULLY COORDINATE WITH THE ABATEMENT TEAM AS REQ'D.
- NOTE THAT THE EXISTING ROOF DRAIN (ABOVE) IS LIKELY NEAR THIS NEW SAWCUT WINDOW OPENING - FIELD VERIFY THAT THERE IS NO CONFLICT WITH THE DRAIN LINE PRIOR TO MAKING NEW OPENING IN WALL - IF A CONFLICT IS FOUND, CONSULT WITH THE ARCHITECT FOR RESOLUTION.
- ALTERNATE #1** - EXISTING CONCRETE SLAB IN THIS AREA IS TO BE SAWCUT AND REMOVED FOR INSTALLATION OF NEW ELECTRICAL FLOOR BOXES / UNDERSLAB CONDUIT - NEW REPLACEMENT SLAB IS TO BE 4" CONCRETE OVER 4" GRAVEL BASE - COORDINATE AS REQ'D.



**BRIDGERLAND 3D SCAN LINK**

CLICK HERE (ORIGINAL .PDF FILE ONLY), OR SCAN QR CODE OR ENTER URL BELOW INTO AN INTERNET BROWSER FOR 3D SCAN OF EXISTING CONDITIONS <https://bit.ly/bridgerland-scan> (note that url is case sensitive)

**A4 LEVEL 1 - DEMO - AREA "A"**  
1" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP  
STATE OF UTAH  
Professional Engineer  
No. 118114  
02/05/2024

CODE OFFICIAL STAMP  
REVIEWED FOR CODE COMPLIANCE  
03/26/2024  
UTAH DEPARTMENT OF COMMUNITY DEVELOPMENT

PROJECT NAME  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ISSUED:  
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DESIGNED BY: SPE  
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SHEET TITLE  
**AREA "A"  
DEMOLITION  
PLAN**

SHEET NUMBER  
**AD-101**

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**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**EXISTING CONCRETE SLAB PREP. (TYPICAL):**

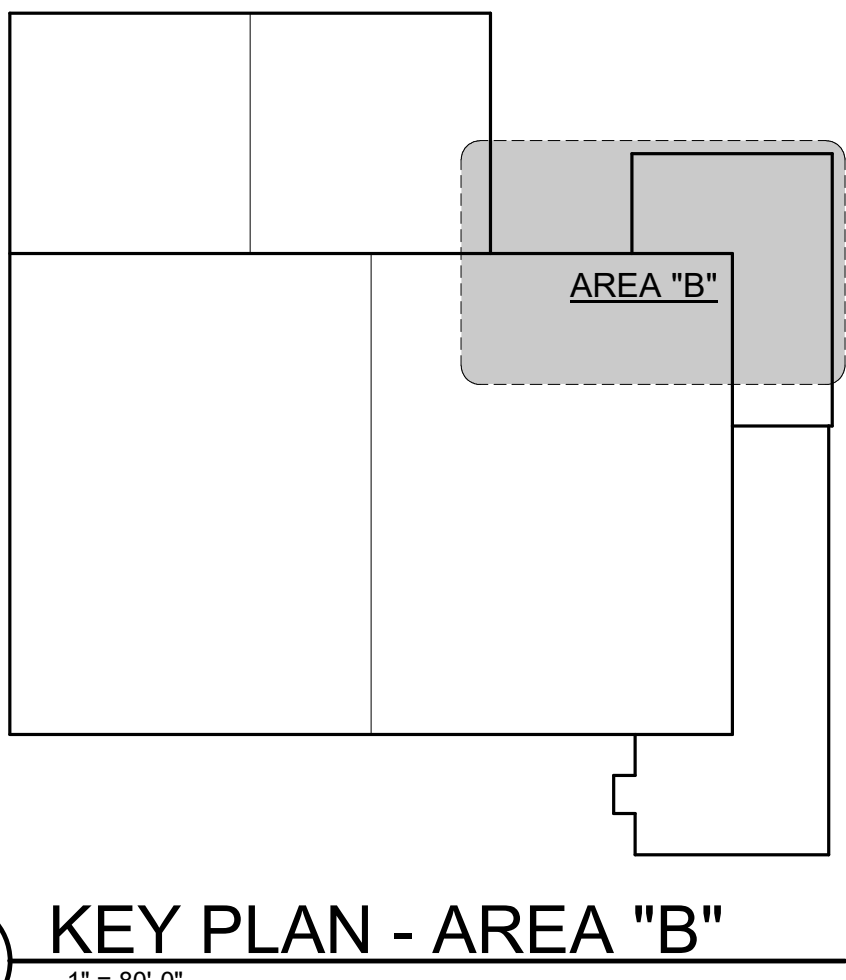
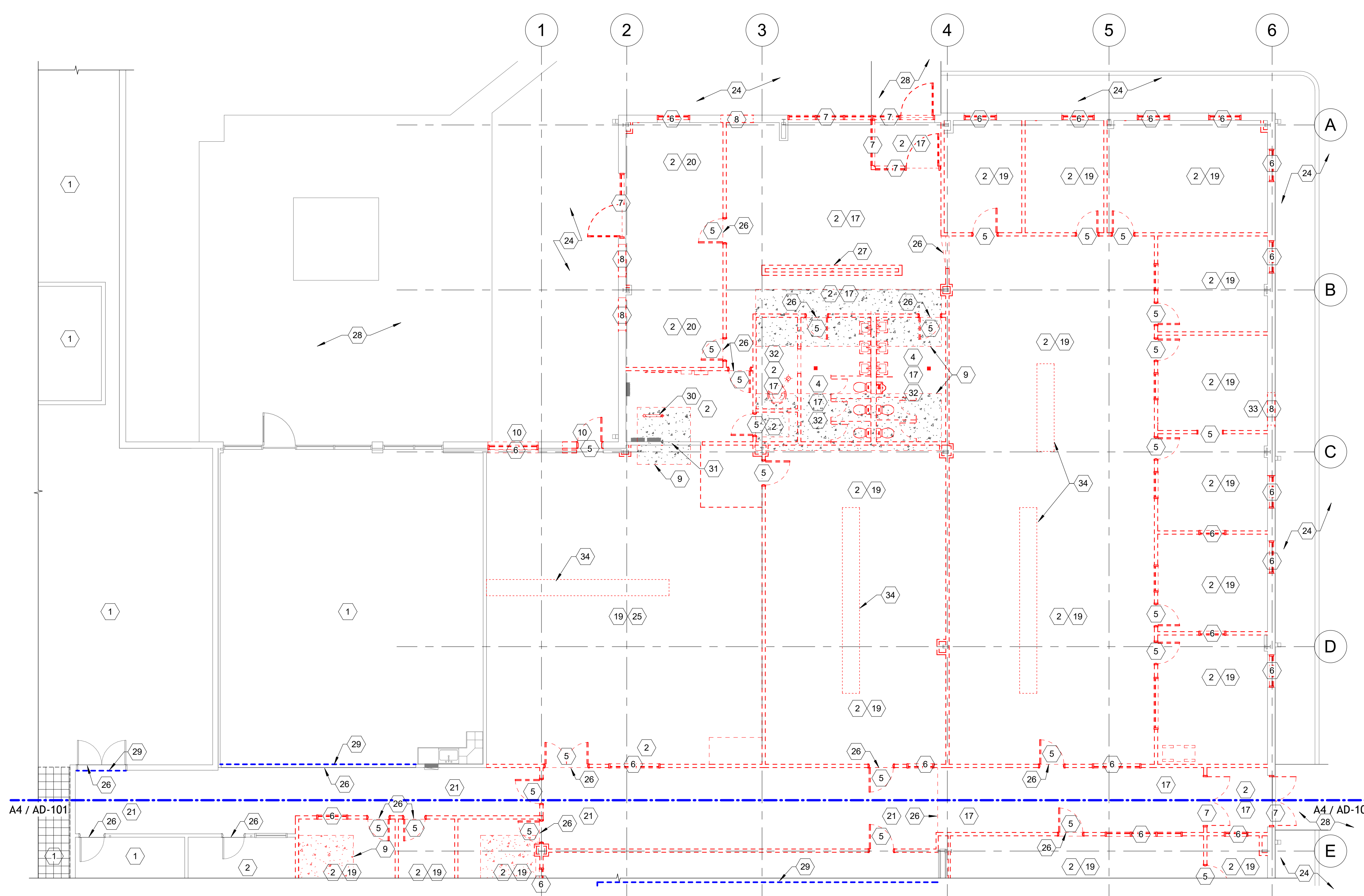
NOTE THAT ALL EXISTING INTERIOR CONCRETE SLABS THAT ARE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE PREPARED (GROUND / LEVELED / PATCHED / REPAIRED) AS REQUIRED BY NEW FLOORING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS, AS WELL AS TO NOT ALLOW FOR ANY EXISTING SLAB IMPERFECTIONS TO BE PERCEPTIBLE ONCE NEW FLOORING SYSTEMS ARE IN PLACE - FIELD VERIFY ALL SUCH WORK AND COORDINATE AS REQ'D.

**EXISTING CONCRETE MODIFICATIONS (TYPICAL):**

NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT / REMOVED OR OTHERWISE MODIFIED (WHETHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAYED / RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING UNDER SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR - COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQ'D. TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH / INFILL SAWCUT AREAS PER D3/AE-505 - COORDINATE WITH MEP DRAWINGS.

**KEYED NOTES** REFERENCE AD-101 & AD-102

1. EXISTING SPACE - NO NEW ARCHITECTURAL WORK UNLESS NOTED OTHERWISE - COORDINATE WITH MEP DRAWINGS REQ'D.
2. DASHED RED ELEMENTS IN THIS AREA ARE TO BE DEMOLISHED - THIS INCLUDES BUT IS NOT LIMITED TO WALLS THAT ARE SHOWN DASHED / RED, WALL BASE, CEILINGS, ETC. - SEE SEPARATE NOTES FOR REMOVAL OF EXTG. FLOORING SYSTEMS - WALLS THAT ARE NOT SPECIFICALLY SCHEDULED TO BE DEMOLISHED ARE TO BE MODIFIED, PATCHED, REPAIRED, REFINISHED AS REQ'D TO PERFORM NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE - COORDINATE AS REQ'D. - COORDINATE WITH MEP DRAWINGS.
3. DASHED RED ELEMENTS IN THIS AREA ARE TO BE DEMOLISHED - THIS INCLUDES BUT IS NOT LIMITED TO FRP PANELING, SHEET FLOORING, LAVATORIES, URINALS, TOILETS, TOILET / URINAL PARTITIONS, GRAB BARS, TOWEL DISPENSERS, SOAP DISPENSERS, MIRRORS, TOILET PAPER DISPENSERS, OTHER MISC. ELEMENTS, ETC. - UNLESS NOTED OTHERWISE, EXISTING CYP. BD. WALLS / CEILINGS AND THEIR RESPECTIVE FRAMING SYSTEMS ARE TO REMAIN - MODIFY, PATCH, REPAIR, REFINISH EXISTING WALLS AND CEILINGS AS REQ'D FOR NEW WORK AND FOR A FLUSH, FINISHED APPEARANCE - COORDINATE WITH MEP DRAWINGS.
4. DASHED RED ELEMENTS IN THIS AREA ARE TO BE DEMOLISHED - THIS INCLUDES BUT IS NOT LIMITED TO EXISTING WALLS, FINISHES, PLUMBING FIXTURES, TOILET ACCESSORIES ETC. - COORDINATE WITH MEP DRAWINGS.
5. EXISTING DOOR / FRAME / HARDWARE TO BE REMOVED - WHERE NEW DOOR IS SCHEDULED TO BE INSTALLED IN AN EXISTING OPENING, MODIFY WALL AS REQ'D. TO ACCOMMODATE NEW DOOR SIZE.
6. EXISTING WINDOW TO BE REMOVED.
7. EXISTING ALUMINUM STOREFRONT ENTRANCE SYSTEM TO BE REMOVED.
8. SAWCUT / REMOVE EXISTING WALL SYSTEM AS REQ'D. FOR INSTALLATION OF NEW WINDOW SYSTEM - SALVAGE AND CLEAN EXTG. BRICKS FOR REUSE IN AREAS SCHEDULED FOR BRICK INFILL - FIELD VERIFY ALL AFFECTED BUILDING SYSTEMS AND COORDINATE AS REQUIRED.
9. EXISTING CONCRETE SLAB IN THIS AREA IS TO BE SAWCUT AND REMOVED - NEW REPLACEMENT SLAB IS TO BE 4" CONCRETE OVER 4" GRAVEL BASE - WHERE NEW RESTROOMS OCCUR, NEW SLAB IS TO BE RECESSED 2" FROM SURROUNDING SLABS TO ALLOW FOR INSTALLATION OF NEW THICKSET FLOOR TILE / SETTING BED SYSTEM - COORDINATE AS REQ'D.
10. EXISTING PEMB WALL SYSTEM TO BE MODIFIED AS REQ'D. FOR NEW SCHEDULED DOORS / WINDOW SYSTEMS - CAREFULLY CUT OUT EXISTING PEMB WALL PANEL AND SALVAGE FOR REUSE IN AREAS REQUIRING WALL INFILL WORK - MODIFY / PREP EXISTING PEMB FRAMING, AND OTHER EXISTING BUILDING SYSTEMS / FINISHES AS REQUIRED TO PERFORM NEW WORK - FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE AS REQ'D.
11. EXISTING WALL TO BE REMOVED - SEE SECTIONS AND STRUCTURAL DRAWINGS FOR NEW WORK - NOTE THAT THIS WALL WAS FORMALLY AN EXTERIOR BUILDING WALL - AS SUCH, CAREFUL FIELD VERIFICATION AND COORDINATION OF EXISTING BUILDING SYSTEMS / COMPONENTS ETC. MUST OCCUR PRIOR TO DEMOLITION OF THIS WALL - WHERE EXISTING FOUNDATION WALL IS EXPOSED BENEATH THE WALL, GRIND FLUSH AND PREPARE AS REQ'D. FOR NEW SCHEDULED FLOORING SYSTEMS.
12. REMOVE EXISTING SIDEWALK IN THIS AREA - MODIFY / PATCH / REPAIR EXTG. LANDSCAPING, IRRIGATION SYSTEM, CONCRETE LANDSCAPE CURBING ETC. AS REQ'D - WHERE NEW SIDEWALK IS SCHEDULED, PREP NEW SIDEWALK AREA AS REQ'D.
13. EXISTING FIRE RISER TO REMAIN AND BE PROTECTED FROM DAMAGE.
14. EXISTING STEEL POSTS AND RELATED STEEL BARRICADE FRAMING TO BE REMOVED.
15. EXISTING ELECTRIC WATER COOLER TO BE REMOVED - COORDINATE WITH MEP DRAWINGS.
16. EXISTING ELECTRICAL WIRE RACEWAY TO REMAIN AND BE PROTECTED FROM DAMAGE - SEE ELECTRICAL DRAWINGS.
17. EXISTING TILE FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL MORTAR SETTING BEDS, TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
18. EXISTING VCT FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL ADHESIVES / TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
19. EXISTING CARPET FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL ADHESIVES / TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
20. EXISTING LAMINATE PLANK FLOORING SYSTEM TO BE REMOVED - GRIND / REMOVE ALL ADHESIVES / TRANSITIONS ETC. - PREP EXTG. CONCRETE SLAB FOR NEW SCHEDULED FLOORING SYSTEM.
21. EXISTING EPOXY / PAINTED FLOORING SYSTEM TO REMAIN WITH THE EXCEPTION OF REMOVAL OF ANY LOOSE OR DAMAGED AREAS THAT WOULD AFFECT THE INSTALLATION OF THE NEW SCHEDULED FLOORING SYSTEM - PREP ANY DAMAGED AREAS OF EXTG. CONCRETE SLAB AS FOR NEW SCHEDULED FLOORING SYSTEM.
22. TRANSITION LINE OF EXISTING VCT FLOORING REMOVAL - REMOVE EXISTING VCT FLOORING NORTH OF THIS LINE - LEAVING THE EXISTING VCT FLOORING IN PLACE SOUTH OF THIS LINE - EXPOSED TRANSITION SHALL BE DONE CAREFULLY AND NEATLY.
23. EXISTING DOWNSPOUT TO BE CAREFULLY REMOVED AND RELOCATED (OR REPLACED WITH NEW) - MODIFY / PATCH / REPAIR EXTG. RAINGUTTER AS REQ'D. - SEE NEW PLAN AND EXTERIOR ELEVATIONS.
24. EXISTING LANDSCAPING, IRRIGATION SYSTEM AND OTHER EXISTING EXTERIOR IMPROVEMENTS (NOT SHOWN) ARE TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQUIRED WHERE AFFECTED BY NEW WORK.
25. REMOVE EXISTING WALL BASE IN THIS SPACE - PREP EXTG. WALLS AS REQ'D. FOR NEW BASE.
26. LINE OF TRANSITION BETWEEN EXISTING FLOORING TYPES - COORDINATE AS REQ'D.
27. REMOVE EXISTING STONE VENEER / METAL STUD FRAMED WALL SYSTEM.
28. EXTG. CONCRETE SIDEWALK TO REMAIN AND BE PROTECTED FROM DAMAGE.
29. CONTRACTOR IS TO PROVIDE A DUST / DEBRIS BARRIER AS REQ'D. TO KEEP NON PROJECT AREAS CLEAN.
30. EXISTING PRV WATER STATION TO BE RELOCATED - SEE PLUMBING DRAWINGS - SAWCUT / PATCH / REPAIR EXISTING CONCRETE SLAB AS REQ'D.
31. REMOVE / MODIFY EXTG. WALL AS REQ'D. TO PERFORM NEW PLUMBING WORK - REBUILD / REFINISH AS REQ'D FOR A FLUSH FINISHED FINAL APPEARANCE.
32. NOTE THAT THE EXISTING TILE WALL WAINSCOT IN THIS SPACE CONTAINS LEAD AND IS TO BE ABATED BY THE OWNERS HAZARDOUS MATERIALS ABATEMENT TEAM (UNDER SEPARATE CONTRACT) - THE ABATEMENT TEAM SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXISTING ELEMENTS AS REQUIRED TO FULLY EXPOSE AND ACCESS ALL WALL TILE FOR REMOVAL - SUCH ITEMS MAY INCLUDE BUT NOT BE LIMITED TO, LAVATORIES, COUNTERS, SOAP DISPENSERS, PARTITION BRACKETS, MISC. TOILET ACCESSORIES ETC. - FINAL DISPOSAL OF NON LEAD CONTAINING ELEMENTS THAT WERE REMOVED BY THE ABATEMENT TEAM SHALL BE THE RESPONSIBILITY OF THIS CONTRACT - CONTRACTOR IS TO FULLY COORDINATE WITH THE ABATEMENT TEAM AS REQ'D.
33. NOTE THAT THE EXISTING ROOF DRAIN (ABOVE) IS LIKELY NEAR THIS NEW SAWCUT WINDOW OPENING - FIELD VERIFY THAT THERE IS NO CONFLICT WITH THE DRAIN LINE PRIOR TO MAKING NEW OPENING IN WALL - IF A CONFLICT IS FOUND, CONSULT WITH THE ARCHITECT FOR RESOLUTION.
34. **ALTERNATE #1** - EXISTING CONCRETE SLAB IN THIS AREA IS TO BE SAWCUT AND REMOVED FOR INSTALLATION OF NEW ELECTRICAL FLOOR BOXES / UNDERSLAB CONDUIT - NEW REPLACEMENT SLAB IS TO BE 4" CONCRETE OVER 4" GRAVEL BASE - COORDINATE AS REQ'D.



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**A3 LEVEL 1 - DEMO - AREA "B"**  
1/8" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

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PROJECT NAME  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHELL BUILDING REMODEL**

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 LOGAN, UTAH 84321

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 SPE PROJECT #: 22-38  
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SHEET TITLE:  
**AREA "B" DEMOLITION PLAN**

SHEET NUMBER:  
**AD-102**

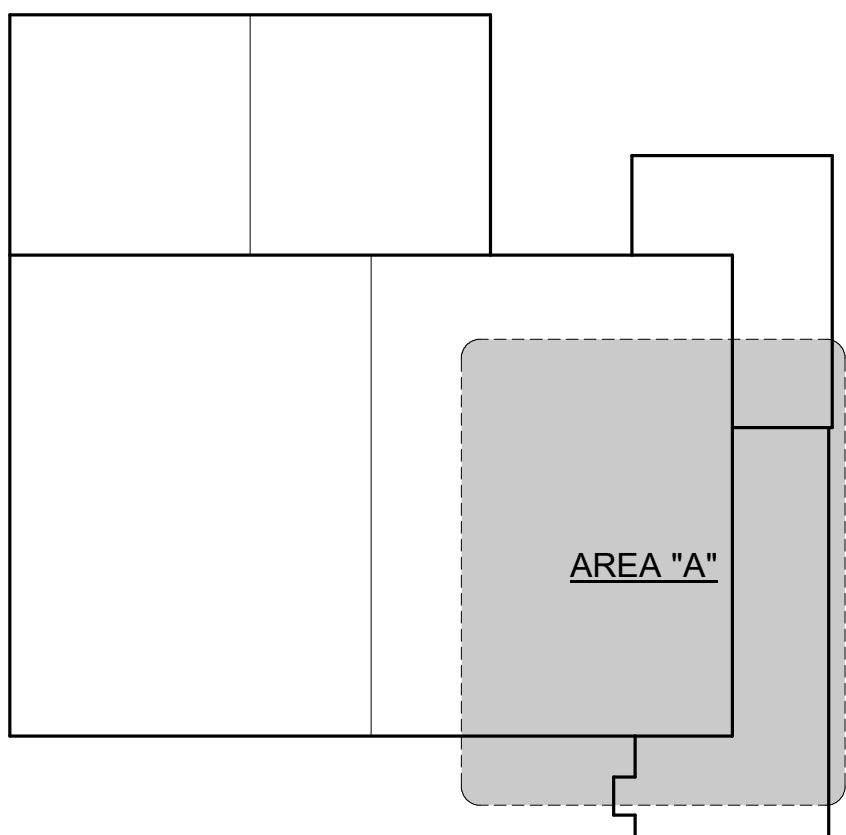


**EXISTING CONDITIONS NOTE (TYPICAL):**  
 NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**LIGHTING DEMOLITION NOTE**  
 EXISTING LIGHT FIXTURES SCHEDULED FOR DEMOLITION SHALL BE REMOVED BY THE CONTRACTOR - CONTRACTOR SHALL DISASSEMBLE AS REQ'D. TO REMOVE BALLASTS AND FLUORESCENT LIGHT TUBES - BALLASTS AND LIGHT TUBES TO BE SET ASIDE FOR PROPER DISPOSAL BY THE OWNER'S HAZARDOUS MATERIALS TEAM - DISPOSAL OF ALL OTHER LIGHTING ELEMENTS SHALL BE THE RESPONSIBILITY OF THIS CONTRACT - COORDINATE AS REQ'D.

**EXISTING INSULATION REPAIR**  
 NOTE THAT WHERE EXISTING INSULATION (AT WALLS, UNDER DECK / BETWEEN PURLINS ETC.) IS BEING DISTURBED / DISPLACED DUE TO NEW WORK, REPLACE WITH NEW AS TO MATCH EXISTING - FILED VERIFY AND COORDINATE AS REQ'D.

- KEYED NOTES** REFERENCE AD-103 & AD-104
- EXISTING SPACE - NO CEILING DEMOLITION WORK UNLESS NOTED OTHERWISE - WHERE AFFECTED BY NEW MECHANICAL, PLUMBING, STRUCTURAL, ETC. WORK, MODIFY, PATCH AND REPAIR AS REQ'D - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS AS REQ'D.
  - EXISTING SUSPENDED ACOUSTIC PANEL AND GRID SYSTEM TO BE REMOVED - COORDINATE WITH MEP DRAWINGS.
  - EXISTING GYP. BD. AND METAL FRAME / SUSPENSION SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY / PATCH / REPAIR / REFINISH AS REQUIRED WHERE AFFECTED BY NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE.
  - EXISTING SUSPENDED ACOUSTIC PANEL CEILING AND GRID SYSTEM TO BE REMOVED IN THIS AREA - EXISTING ADJACENT CEILING TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY REMAINING CEILING AND GRID SYSTEM AS REQ'D. TO WORK WITH NEW WALL SYSTEM.
  - WHERE EXISTING CEILING SYSTEM (SCHEDULED TO REMAIN) BORDERS THE EXISTING WALL THAT IS SCHEDULED FOR DEMOLITION, CAREFULLY DISASSEMBLE, MODIFY AND REASSEMBLE CEILING / GRID SYSTEM AS REQ'D. FOR A FLUSH, FINISHED FINAL APPEARANCE.
  - EXISTING SUSPENDED ACOUSTIC PANEL AND GRID CEILING SYSTEM TO REMAIN IN THIS SPACE UNLESS NOTED OTHERWISE - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK.
  - EXISTING METAL SOFFIT SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D WHERE AFFECTED BY NEW WORK.
  - EXISTING ELECTRICAL WIRE RACEWAY TO BE REMOVED AND REPLACED WITH NEW - SEE ELECTRICAL DRAWINGS.
  - EXTG. GYP. BD. SOFFIT / METAL STUD FRAMING TO BE REMOVED / MODIFIED AS REQ'D. TO PERFORM NEW WORK.
  - EXISTING HVAC / DUCTWORK SYSTEM - SEE MECHANICAL DRAWINGS - WHERE EXISTING ROOF SYSTEM INCLUDING INTERIOR INSULATION IS AFFECTED, PATCH AND REPAIR AS REQ'D.



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**A4 LEVEL 1 - CEILING DEMO - AREA "A"**  
 1/8" = 1'-0"

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

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PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

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 CHECKED BY: SPE  
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SHEET TITLE:  
**AREA "A" CEILING DEMOLITION PLAN**

SHEET NUMBER:  
**AD-103**



**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**LIGHTING DEMOLITION NOTE**

EXISTING LIGHT FIXTURES SCHEDULED FOR DEMOLITION SHALL BE REMOVED BY THE CONTRACTOR - CONTRACTOR SHALL DISASSEMBLE AS REQ'D. TO REMOVE BALLASTS AND FLUORESCENT LIGHT TUBES - BALLASTS AND LIGHT TUBES TO BE SET ASIDE FOR PROPER DISPOSAL BY THE OWNER'S HAZARDOUS MATERIALS TEAM - DISPOSAL OF ALL OTHER LIGHTING ELEMENTS SHALL BE THE RESPONSIBILITY OF THIS CONTRACT - COORDINATE AS REQ'D.

**EXISTING INSULATION REPAIR**

NOTE THAT WHERE EXISTING INSULATION (AT WALLS, UNDER DECK / BETWEEN PURLINS ETC.) IS BEING DISTURBED / DISPLACED DUE TO NEW WORK, REPLACE WITH NEW AS TO MATCH EXISTING - FILED VERIFY AND COORDINATE AS REQ'D.

**KEYED NOTES** REFERENCE AD-103 & AD-104

- EXISTING SPACE - NO CEILING DEMOLITION WORK UNLESS NOTED OTHERWISE - WHERE AFFECTED BY NEW MECHANICAL, PLUMBING, STRUCTURAL ETC. WORK, MODIFY, PATCH AND REPAIR AS REQ'D. - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS AS REQ'D.
- EXISTING SUSPENDED ACOUSTIC PANEL AND GRID SYSTEM TO BE REMOVED - COORDINATE WITH MEP DRAWINGS.
- EXISTING GYP. BD. AND METAL FRAME / SUSPENSION SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY / PATCH / REPAIR / REFINISH AS REQUIRED WHERE AFFECTED BY NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE.
- EXISTING SUSPENDED ACOUSTIC PANEL CEILING AND GRID SYSTEM TO BE REMOVED IN THIS AREA - EXISTING ADJACENT CEILING TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY REMAINING CEILING AND GRID SYSTEM AS REQ'D. TO WORK WITH NEW WALL SYSTEM.
- WHERE EXISTING CEILING SYSTEM (SCHEDULED TO REMAIN) BORDERS THE EXISTING WALL THAT IS SCHEDULED FOR DEMOLITION, CAREFULLY DISASSEMBLE, MODIFY AND REASSEMBLE CEILING / GRID SYSTEM AS REQ'D. FOR A FLUSH, FINISHED FINAL APPEARANCE.
- EXISTING SUSPENDED ACOUSTIC PANEL AND GRID CEILING SYSTEM TO REMAIN IN THIS SPACE UNLESS NOTED OTHERWISE - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK.
- EXISTING METAL SOFFIT SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D WHERE AFFECTED BY NEW WORK.
- EXISTING ELECTRICAL WIRE RACEWAY TO BE REMOVED AND REPLACED WITH NEW - SEE ELECTRICAL DRAWINGS.
- EXTG. GYP. BD. SOFFIT / METAL STUD FRAMING TO BE REMOVED / MODIFIED AS REQ'D. TO PERFORM NEW WORK.
- EXISTING HVAC / DUCTWORK SYSTEM - SEE MECHANICAL DRAWINGS - WHERE EXISTING ROOF SYSTEM INCLUDING INTERIOR INSULATION IS AFFECTED, PATCH AND REPAIR AS REQ'D.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1360  
info@spe-architect.com  
www.spe-architect.com

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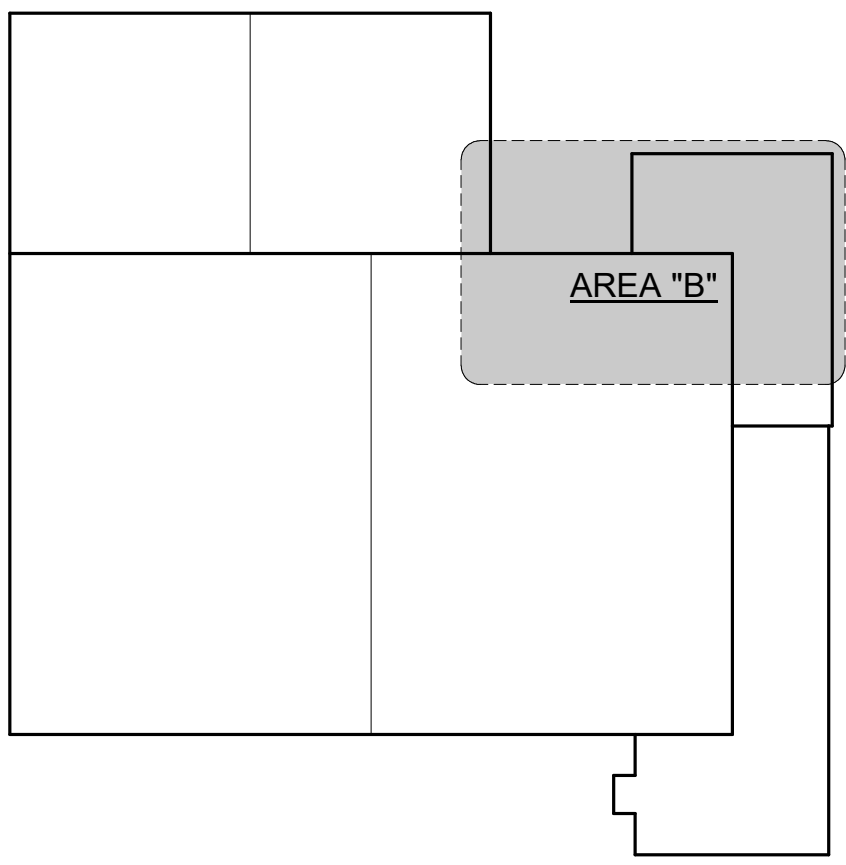
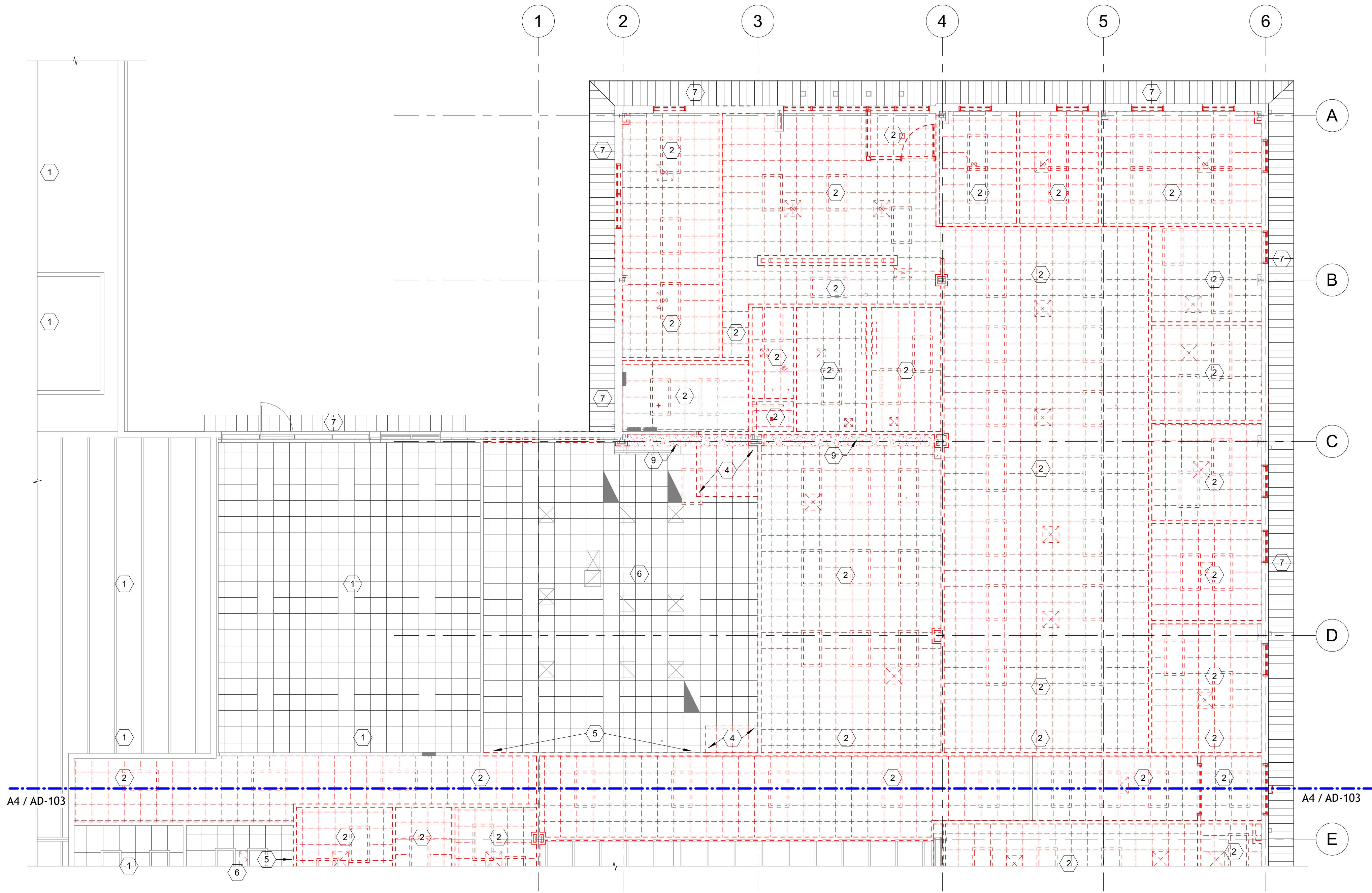
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SPE PROJECT #: 22-38  
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**AREA "B" CEILING  
DEMOLITION  
PLAN**

SHEET NUMBER:  
**AD-104**



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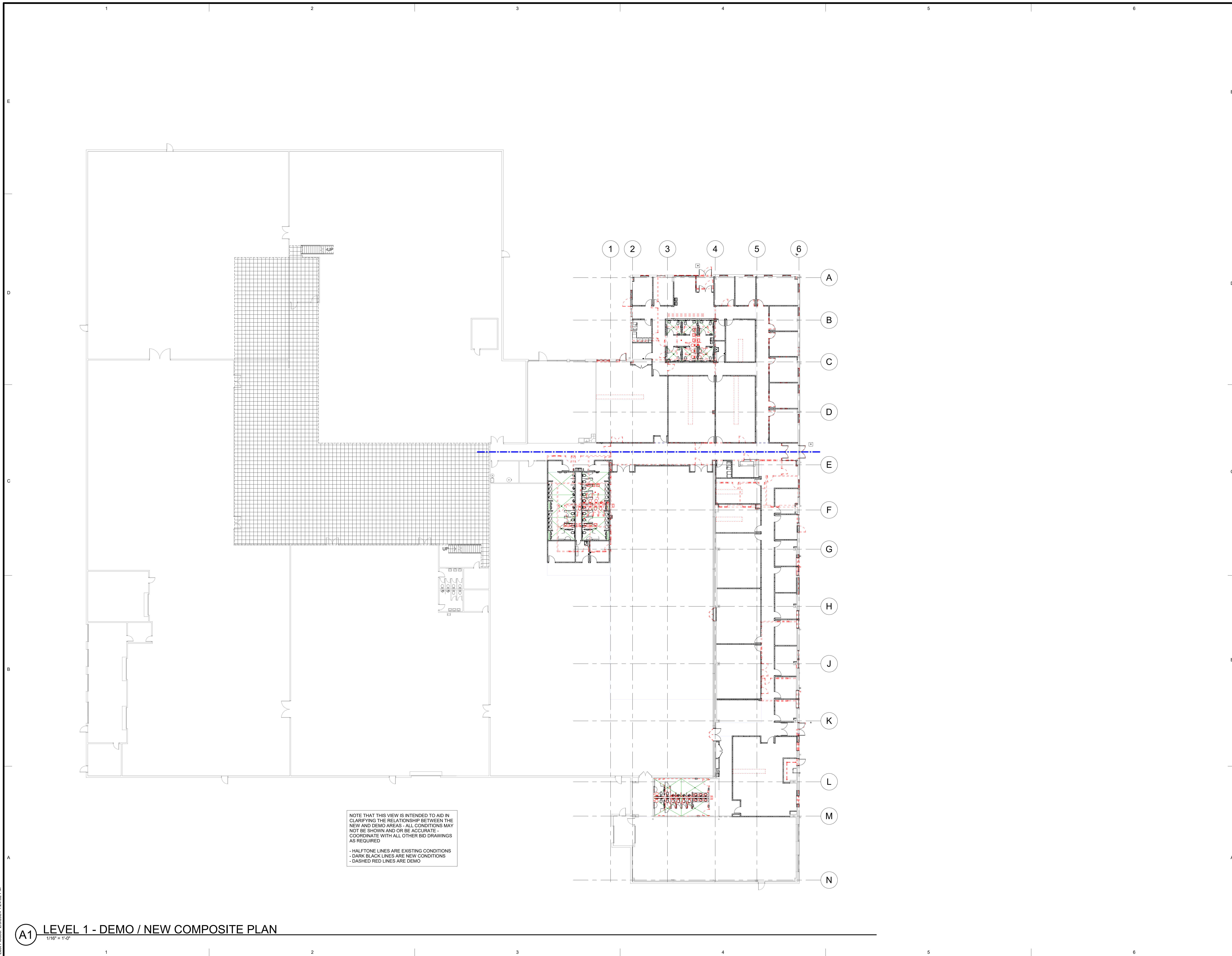


**A3 LEVEL 1 - CEILING DEMO - AREA "B"**  
1/8" = 1'-0"

**KEY PLAN - AREA "B"**  
1" = 80'-0"

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ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



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SHEET TITLE:

**DEMO / NEW  
 COMPOSITE  
 PLAN**

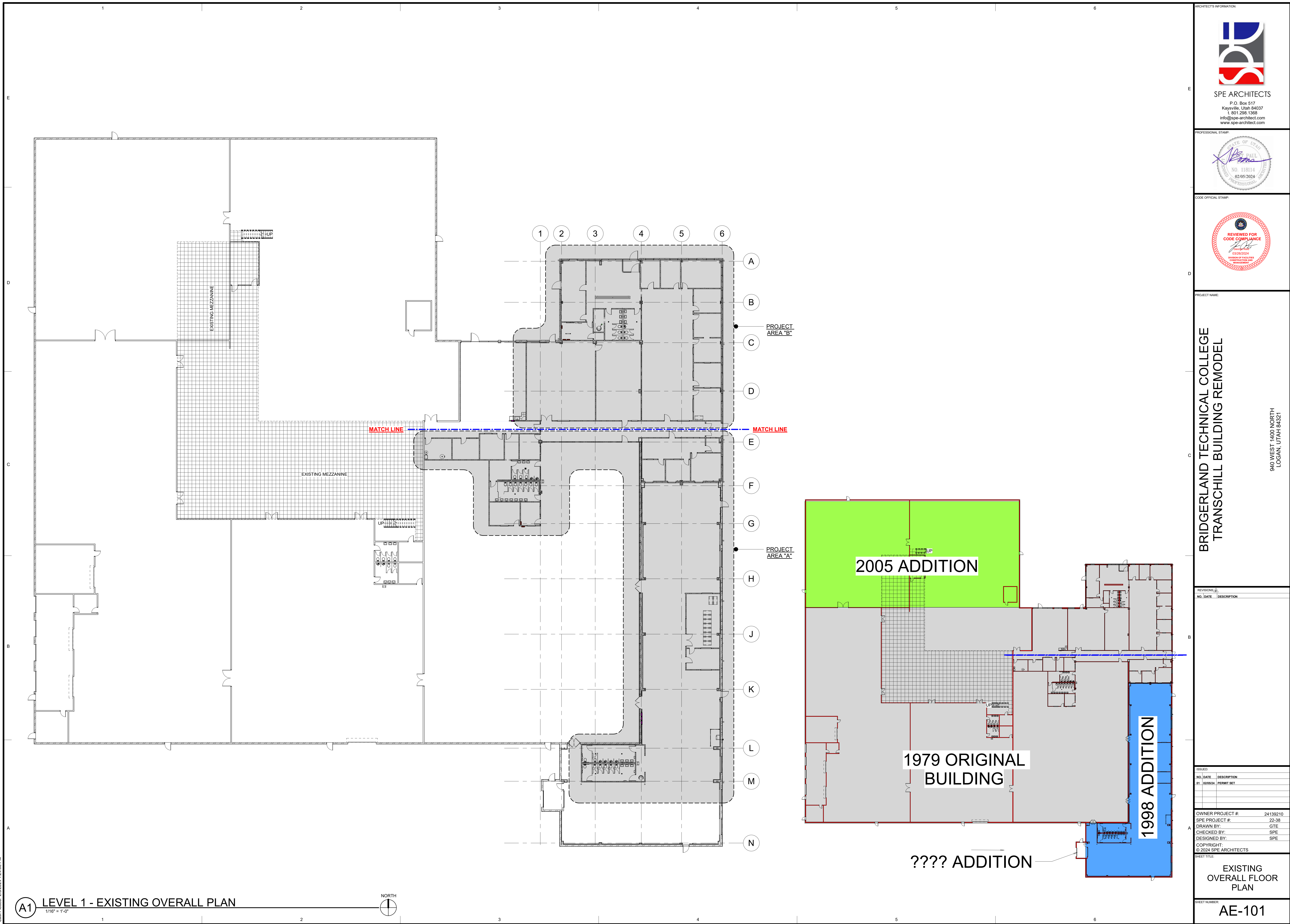
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**AD-105**

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**A1 LEVEL 1 - DEMO / NEW COMPOSITE PLAN**  
 1/16" = 1'-0"






ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

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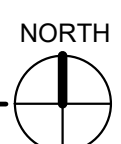
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SHEET TITLE:  
**EXISTING OVERALL FLOOR PLAN**

SHEET NUMBER:  
**AE-101**

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**A1** LEVEL 1 - EXISTING OVERALL PLAN  
 1/16" = 1'-0"





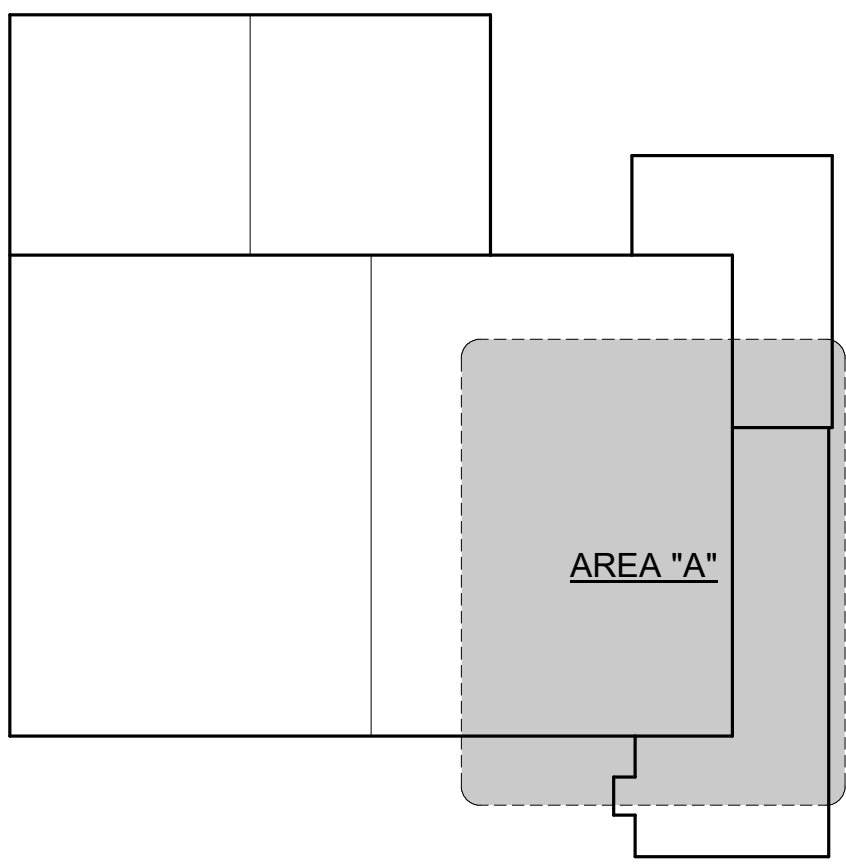
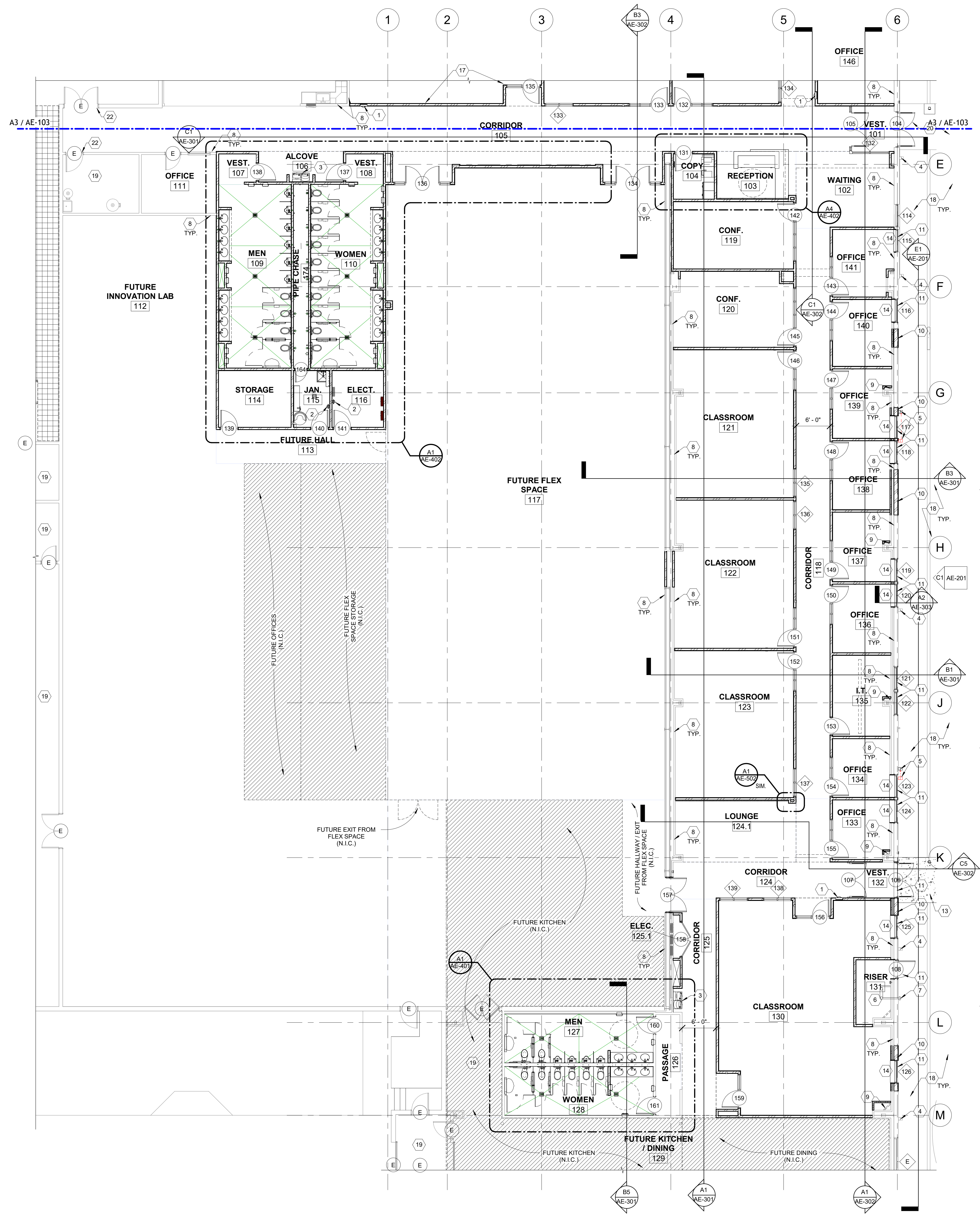
**EXISTING CONDITIONS NOTE (TYPICAL):**  
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**EXISTING CONCRETE SLAB PREP. (TYPICAL):**  
 NOTE THAT ALL EXISTING INTERIOR CONCRETE SLABS THAT ARE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE PREPARED (GROUND / LEVELED / PATCHED / REPAIRED) AS REQUIRED BY NEW FLOORING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS, AS WELL AS TO NOT ALLOW FOR ANY EXISTING SLAB IMPERFECTIONS TO BE PERCEPTIBLE ONCE NEW FLOORING SYSTEMS ARE IN PLACE - FIELD VERIFY ALL SUCH WORK AND COORDINATE AS REQ'D.

**EXISTING CONCRETE MODIFICATIONS (TYPICAL):**  
 NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT / REMOVED OR OTHERWISE MODIFIED (WHETHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAYED / RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING UNDER SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR - COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQ'D TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH / INFILL SAWCUT AREAS PER D3/AE-505 - COORDINATE WITH MEP DRAWINGS.

**KEYED NOTES** REFERENCE AE-102 & AE-103

- SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - INSTALL AT 60" FROM FINISHED FLOOR TO TOP OF CABINET - CABINET MUST NOT EXTEND MORE THAN 4" OFF OF FACE OF WALL - SEE SPEC.
- FIRE EXTINGUISHER ON WALL BRACKET - INSTALL BRACKET AT 42" AFF - SEE SPEC.
- DUAL HEIGHT (ADA & STANDARD HEIGHTS) ELECTRIC WATER COOLER WITH BOTTLE FILLER.
- EXISTING DOWNSPOUT TO REMAIN.
- EXISTING DOWNSPOUT TO BE RELOCATED - MODIFY / PATCH / REPAIR DOWNSPOUT AND RAIN GUTTER AS REQ'D.
- EXISTING FIRE RISER TO REMAIN - PROTECT FROM DAMAGE.
- EXISTING FIRE DEPARTMENT CONNECT (FDC) TO REMAIN - PROTECT FROM DAMAGE.
- TYP. AT ALL EXISTING WALLS NOT SCHEDULED FOR DEMOLITION (REGARDLESS OF OCCURRENCE OF KEYNOTE ON PLAN), MODIFY EXISTING WALL SYSTEMS AS REQ'D TO PERFORM NEW WORK - PATCH / REPAIR / REFINISH AS REQ'D. FOR A FLUSH, FINISHED FINAL APPEARANCE - WHERE NEW SOUND RATED WALLS INTERSECT EXISTING WALLS, MODIFY EXISTING WALL AS REQ'D. TO MAINTAIN SOUND RATING.
- EXISTING STEEL ANGLE BRACE AT THIS LOCATION - PROVIDE NEW FURRED WALL AS REQ'D TO ENCLOSE BRACE - F.V. AND COORD. AS REQ'D.
- INFILL EXISTING WALL SYSTEM WHERE EXISTING WINDOWS / DOORS ARE SCHEDULED FOR DEMOLITION - ALL EXISTING WALL COMPONENTS ARE TO BE FIELD VERIFIED AND MATCHED - EXTERIOR METAL WALL PANELS TO BE PATCHED USING METAL WALL PANELS SALVAGED FROM THE DEMOLITION PROCESS WHERE NEW DOORS AND WINDOWS ARE BEING CUT INTO THIS WALL - EXTERIOR WALL PANEL PATCH LOCATIONS ARE TO BE WATER TIGHT AND MUST BE DONE AS TO BE AS AESTHETICALLY PLEASING AS POSSIBLE - CONTRACTOR IS TO SUBMIT PROPOSED METHOD OF METAL PANEL PATCH PRIOR TO PERFORMING THIS WORK.
- NEW WINDOW / DOOR SYSTEM TO BE CUT INTO EXISTING PEMB WALL - ALL EXISTING COMPONENTS INCLUDING GIRTS ARE TO BE REVISED AS TO ALLOW PROPER INSTALLATION - SEE E1/AE-201 FOR INTENDED PEMB FRAMING MODIFICATIONS - CONTRACTOR IS TO SUBMIT ACTUAL FRAMING CHANGES PRIOR TO PERFORMING THIS WORK.
- NEW WINDOW TO BE CUT INTO EXISTING EXTERIOR / BRICK WALL - FIELD VERIFY ALL EXISTING WALL COMPONENTS AND COORDINATE AS REQ'D - SALVAGE BRICK FOR REUSE IN BRICK INFILL AREAS.
- EXISTING SIDEWALK IN THIS AREA TO BE REMOVED AND REPLACED WITH A NEW 96" WIDE WALK - SEE SITE PLAN.
- NEW QUARTZ WINDOW SILL.
- PROVIDE NEW SIDEWALK TO CONNECT DOORWAY TO EXISTING COURTYARD CONCRETE SLAB - SEE SITE PLAN - REMOVE EXISTING LANDSCAPING AND MODIFY EXISTING IRRIGATION SYSTEM AS REQ'D. IN THIS AREA.
- INFILL / PATCH EXTG. WALL WHERE EXISTING STOREFRONT IS SCHEDULED FOR DEMOLITION - SALVAGE, CLEAN AND PREP EXISTING BRICK FROM DEMOLITION IN OTHER LOCATIONS FOR REUSE IN THIS AREA - ANY ADDITIONAL BRICK BEYOND THAT SALVAGED FROM DEMOLITION MUST MATCH EXTG. BRICK AS BEST AS POSSIBLE - BRICK INFILL IS TO BE TOOTHED IN AT ENDS.
- WHERE NEW WORK OCCURS IN THIS SPACE, MODIFY EXISTING ADJACENT MATERIALS / FINISHES - ANY NEW FINISHES MUST MATCH EXISTING - ANY FINISHES / ELEMENTS NOT SCHEDULED FOR DEMOLITION / NEW WORK MUST BE PROTECTED FROM DAMAGE.
- EXISTING SHRUBBERY / LANDSCAPING / IRRIGATION SYSTEM ETC. (NOT SHOWN) TO BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D. WHERE NEW SIDEWALK WORK OCCURS.
- EXISTING SPACE - NO NEW ARCHITECTURAL WORK UNLESS NOTED OTHERWISE - COORDINATE WITH MEP DRAWINGS REQ'D.
- EXISTING SIDEWALK TO REMAIN AND BE PROTECTED FROM DAMAGE.
- NEW LOCATION OF PRV WATER STATION - SEE PLUMBING DRAWINGS - SAWCUT / PATCH CONCRETE SLAB - SEE D3/AE-505 FOR CONCRETE PATCH.
- ON CORRIDOR SIDE ONLY, EXISTING HOLLOW METAL DOOR / FRAME IS TO HAVE PAINT STRIPPED, DAMAGE PATCHED, AND IS TO BE REFINISHED.
- WHERE UNDERSLAB PIPE JOINTS OCCUR AT THE RELOCATED PRV SYSTEM, LEAVE 18" X 18" OPENING IN SLAB AND PROVIDE 22" X 22" X 1/4" REMOVABLE, CHECKERPLATE ALUMINUM PLATE (2-PIECE AT PIPE PENETRATION) BOLTED TO CONCRETE SLAB AS TO ALLOW FOR FUTURE ACCESS TO JOINTS WITHOUT THE NEED TO CUT THE SLAB.



**KEY PLAN - AREA "A"**  
 1" = 80'-0"

**A4 LEVEL 1 - NEW - AREA "A"**  
 1/8" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t: 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHELL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

REVISIONS

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 SPE PROJECT #: 22-38  
 DRAWN BY: GTE  
 CHECKED BY: SPE  
 DESIGNED BY: SPE  
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SHEET TITLE:  
**AREA "A" FLOOR PLAN - NEW**

SHEET NUMBER:  
**AE-102**



**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**EXISTING CONCRETE SLAB PREP. (TYPICAL):**

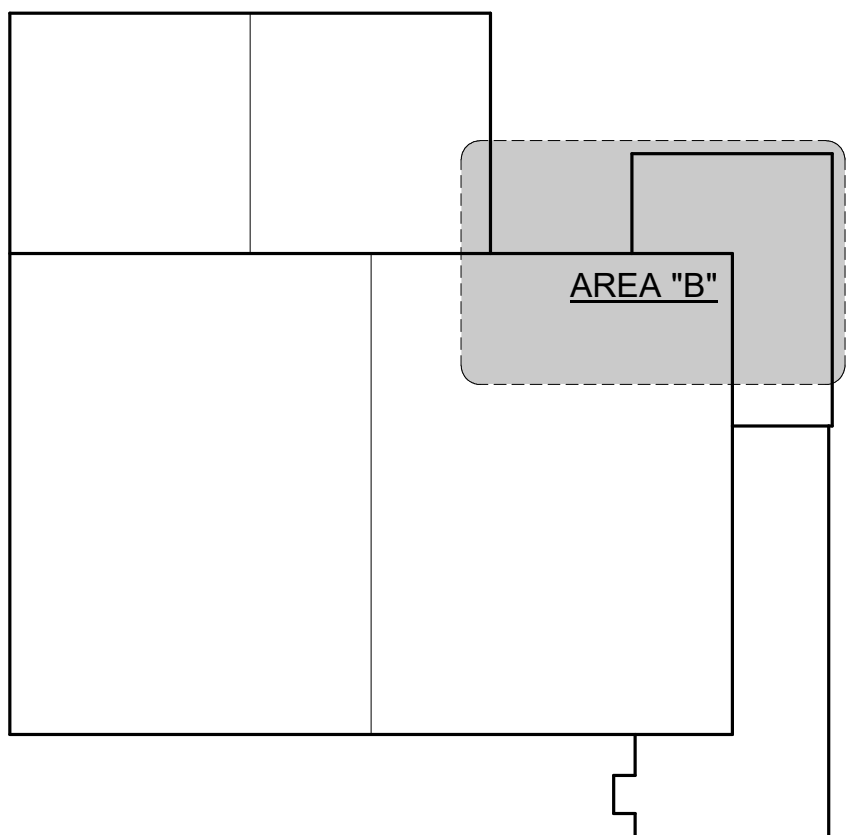
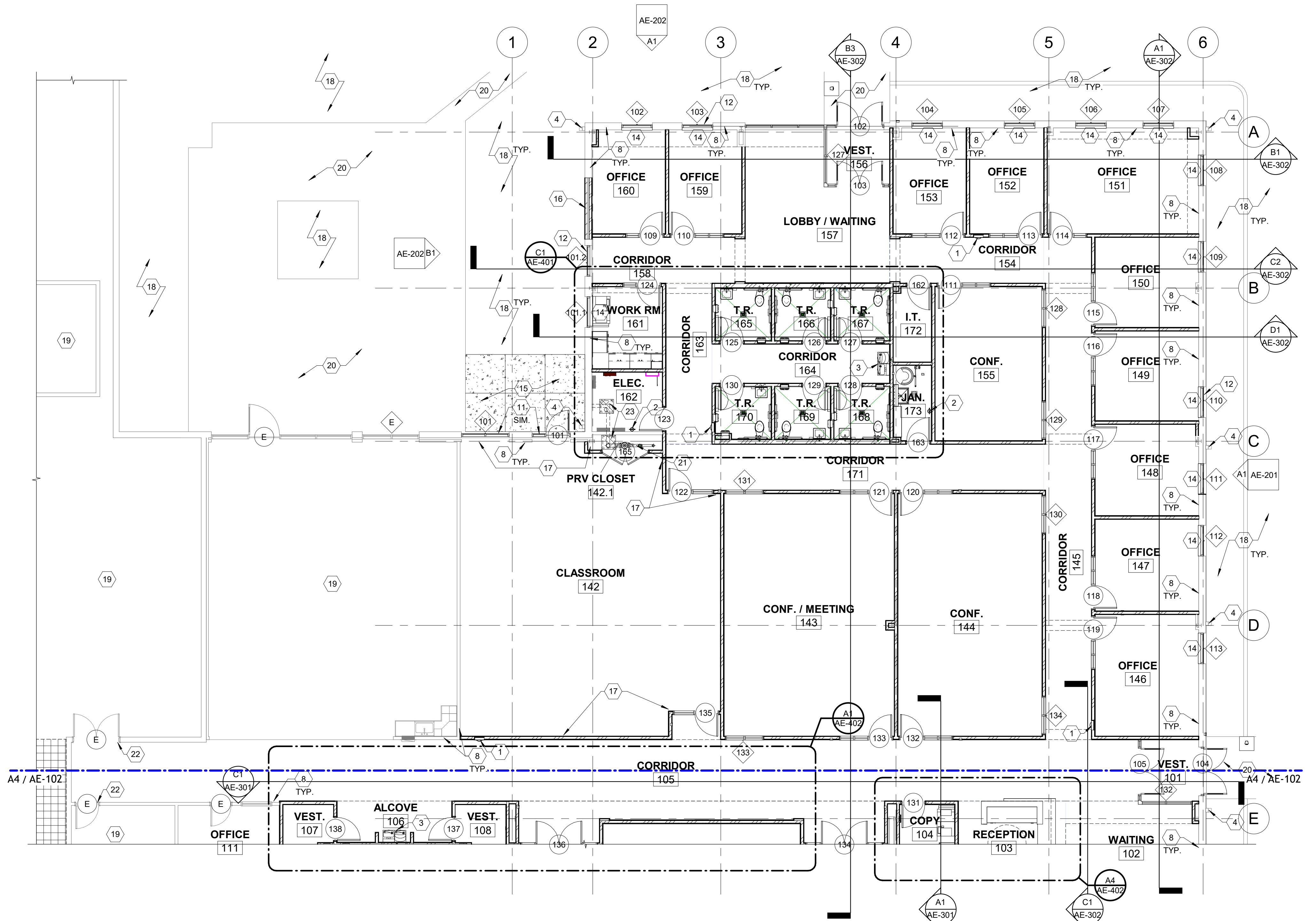
NOTE THAT ALL EXISTING INTERIOR CONCRETE SLABS THAT ARE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE PREPARED (GROUND / LEVELED / PATCHED / REPAIRED) AS REQUIRED BY NEW FLOORING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS, AS WELL AS TO NOT ALLOW FOR ANY EXISTING SLAB IMPERFECTIONS TO BE PERCEPTIBLE ONCE NEW FLOORING SYSTEMS ARE IN PLACE - FIELD VERIFY ALL SUCH WORK AND COORDINATE AS REQ'D.

**EXISTING CONCRETE MODIFICATIONS (TYPICAL):**

NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT / REMOVED OR OTHERWISE MODIFIED (WHETHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAYED / RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING UNDER SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR - COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQ'D TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH / INFILL SAWCUT AREAS PER D3/AE-505 - COORDINATE WITH MEP DRAWINGS.

**KEYED NOTES** REFERENCE AE-102 & AE-103

1. SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - INSTALL AT 60" FROM FINISHED FLOOR TO TOP OF CABINET - CABINET MUST NOT EXTEND MORE THAN 4" OFF OF FACE OF WALL - SEE SPEC.
2. FIRE EXTINGUISHER ON WALL BRACKET - INSTALL BRACKET AT 42" AFF - SEE SPEC.
3. DUAL HEIGHT (ADA & STANDARD HEIGHTS) ELECTRIC WATER COOLER WITH BOTTLE FILLER.
4. EXISTING DOWNSPOUT TO REMAIN.
5. EXISTING DOWNSPOUT TO BE RELOCATED - MODIFY / PATCH / REPAIR DOWNSPOUT AND RAIN GUTTER AS REQ'D.
6. EXISTING FIRE RISER TO REMAIN - PROTECT FROM DAMAGE.
7. EXISTING FIRE DEPARTMENT CONNECT (FDC) TO REMAIN - PROTECT FROM DAMAGE.
8. TYP. AT ALL EXISTING WALLS NOT SCHEDULED FOR DEMOLITION (REGARDLESS OF OCCURRENCE OF KEYNOTE ON PLAN), MODIFY EXISTING WALL SYSTEMS AS REQ'D TO PERFORM NEW WORK - PATCH / REPAIR / REFINISH AS REQ'D FOR A FLUSH, FINISHED FINAL APPEARANCE - WHERE NEW SOUND RATED WALLS INTERSECT EXISTING WALLS, MODIFY EXISTING WALL AS REQ'D TO MAINTAIN SOUND RATING.
9. EXISTING STEEL ANGLE BRACE AT THIS LOCATION - PROVIDE NEW FURRED WALL AS REQ'D TO ENCLOSE BRACE - F.V. AND COORD. AS REQ'D.
10. INFILL EXISTING WALL SYSTEM WHERE EXISTING WINDOWS / DOORS ARE SCHEDULED FOR DEMOLITION - ALL EXISTING WALL COMPONENTS ARE TO BE FIELD VERIFIED AND MATCHED - EXTERIOR METAL WALL PANELS TO BE PATCHED USING METAL WALL PANELS SALVAGED FROM THE DEMOLITION PROCESS WHERE NEW DOORS AND WINDOWS ARE BEING CUT INTO THIS WALL - EXTERIOR WALL PATCH LOCATIONS ARE TO BE WATER TIGHT AND MUST BE DONE AS TO BE AS AESTHETICALLY PLEASING AS POSSIBLE - CONTRACTOR IS TO SUBMIT PROPOSED METHOD OF METAL PANEL PATCH PRIOR TO PERFORMING THIS WORK.
11. NEW WINDOW / DOOR SYSTEM TO BE CUT INTO EXISTING PEMB WALL - ALL EXISTING COMPONENTS INCLUDING GIRTS ARE TO BE REVISED AS TO ALLOW PROPER INSTALLATION - SEE E1/AE-201 FOR INTENDED PEMB FRAMING MODIFICATIONS - CONTRACTOR IS TO SUBMIT ACTUAL FRAMING CHANGES PRIOR TO PERFORMING THIS WORK.
12. NEW WINDOW TO BE CUT INTO EXISTING EXTERIOR / BRICK WALL - FIELD VERIFY ALL EXISTING WALL COMPONENTS AND COORDINATE AS REQ'D - SALVAGE BRICK FOR REUSE IN BRICK INFILL AREAS.
13. EXISTING SIDEWALK IN THIS AREA TO BE REMOVED AND REPLACED WITH A NEW 96" WIDE WALK - SEE SITE PLAN.
14. NEW QUARTZ WINDOW SILL.
15. PROVIDE NEW SIDEWALK TO CONNECT DOORWAY TO EXISTING COURTYARD CONCRETE SLAB - SEE SITE PLAN - REMOVE EXISTING LANDSCAPING AND MODIFY EXISTING IRRIGATION SYSTEM AS REQ'D IN THIS AREA.
16. INFILL / PATCH EXTG. WALL WHERE EXISTING STOREFRONT IS SCHEDULED FOR DEMOLITION - SALVAGE, CLEAN AND PREP EXISTING BRICK FROM DEMOLITION IN OTHER LOCATIONS FOR REUSE IN THIS AREA - ANY ADDITIONAL BRICK BEYOND THAT SALVAGED FROM DEMOLITION MUST MATCH EXTG. BRICK AS BEST AS POSSIBLE - BRICK INFILL IS TO BE TOOTHED IN AT ENDS.
17. WHERE NEW WORK OCCURS IN THIS SPACE, MODIFY EXISTING ADJACENT MATERIALS / FINISHES - ANY NEW FINISHES MUST MATCH EXISTING - ANY FINISHES / ELEMENTS NOT SCHEDULED FOR DEMOLITION / NEW WORK MUST BE PROTECTED FROM DAMAGE.
18. EXISTING SHRUBBERY / LANDSCAPING / IRRIGATION SYSTEM ETC. (NOT SHOWN) TO BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D WHERE NEW SIDEWALK WORK OCCURS.
19. EXISTING SPACE - NO NEW ARCHITECTURAL WORK UNLESS NOTED OTHERWISE - COORDINATE WITH MEP DRAWINGS REQ'D.
20. EXISTING SIDEWALK TO REMAIN AND BE PROTECTED FROM DAMAGE.
21. NEW LOCATION OF PRV WATER STATION - SEE PLUMBING DRAWINGS - SAWCUT / PATCH CONCRETE SLAB - SEE D3/AE-505 FOR CONCRETE PATCH.
22. ON CORRIDOR SIDE ONLY, EXISTING HOLLOW METAL DOOR / FRAME IS TO HAVE PAINT STRIPPED, DAMAGE PATCHED, AND IS TO BE REFINISHED.
23. WHERE UNDERSLAB PIPE JOINTS OCCUR AT THE RELOCATED PRV SYSTEM, LEAVE 18" X 18" OPENING IN SLAB AND PROVIDE 22" X 22" X 1/4" REMOVABLE, CHECKERPLATE ALUMINUM PLATE (2-PIECE AT PIPE PENETRATION) BOLTED TO CONCRETE SLAB AS TO ALLOW FOR FUTURE ACCESS TO JOINTS WITHOUT THE NEED TO CUT THE SLAB.



**KEY PLAN - AREA "B"**  
1" = 80'-0"

**A3 LEVEL 1 - NEW - AREA "B"**  
1/8" = 1'-0"

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP  
STATE OF UTAH  
ARCHITECT  
No. 11814  
02/05/2024

CODE OFFICIAL STAMP  
REVIEWED FOR CODE COMPLIANCE  
03/26/2024  
WWW.SPE-ARCHITECT.COM

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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01 02/05/24 PERMIT SET

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SPE PROJECT #: 22-38  
DRAWN BY: GTE  
CHECKED BY: SPE  
DESIGNED BY: SPE  
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**AREA "B" FLOOR PLAN - NEW**

SHEET NUMBER  
**AE-103**

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**CEILING SYMBOLS**

- EXTG. METAL SOFFIT SYSTEM - PROTECT FROM DAMAGE
- HEIGHT OF CEILING OR OTHER SURFACE OFF OF FINISHED FLOOR ELEVATION
- OPEN TO STRUCTURE (NO CEILING) - COORDINATE WITH FINISH SCHEDULE
- HEIGHT OF CEILING OR STRUCTURE VARIES ABOVE FINISHED FLOOR ELEVATION
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 2x2 OR 2x4 TROFFER LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- SPEAKER - SEE ELECTRICAL DRAWINGS
- EXIT SIGN - SEE ELECTRICAL DRAWINGS
- HORN/SSTROBE - SEE ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
- RETURN AIR DIFFUSER - SEE MECHANICAL DRAWINGS
- EXHAUST LOUVER - SEE MECHANICAL DRAWINGS

**CEILING TYPES**

- TYPE C1  
HEIGHT SEE PLAN  
 NEW 2'x4' SUSPENDED ACOUSTIC LAY-IN PANEL CEILING SYSTEM - (SECOND LOOK 2'x2' APPEARANCE) - GRID TO BE 15/16" TYP. - PROVIDE BEAM END SEISMIC RETAINING CLIPS AND 15/16" DEEP WALL ANGLES - INSTALLATION OF CLIPS MUST BE DONE AS TO MEET ALL REFERENCED CODE REQUIREMENTS - SEE SPEC.
- TYPE C1 E  
HEIGHT SEE PLAN  
 EXTG. 2'x2' SUSPENDED ACOUSTIC LAY-IN PANEL CEILING SYSTEM - PROTECT FROM DAMAGE - MODIFY AS REQUIRED WHERE AFFECTED BY NEW WORK - F.V. AND COORD. AS REQ'D.
- TYPE C2  
HEIGHT SEE PLAN  
 NEW 5/8" TYPE "X" GYP. BD. CEILING / SOFFIT SYSTEM - CEILINGS ARE TO BE SUSPENDED AND SOFFITS ARE TO BE METAL STUD FRAMED
- TYPE C2 E  
HEIGHT SEE PLAN  
 EXTG. GYP. BD. CEILING SYSTEM - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK
- TYPE C3 E  
HEIGHT SEE PLAN  
 OPEN TO EXISTING STRUCTURE ABOVE - EXTG. STRUCTURE IS TYPICALLY A "Z" PURLIN SYSTEM AND METAL DECK WITH FACED INSULATION BETWEEN PURLINS - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK - F.V. AND COORD. AS REQ'D.

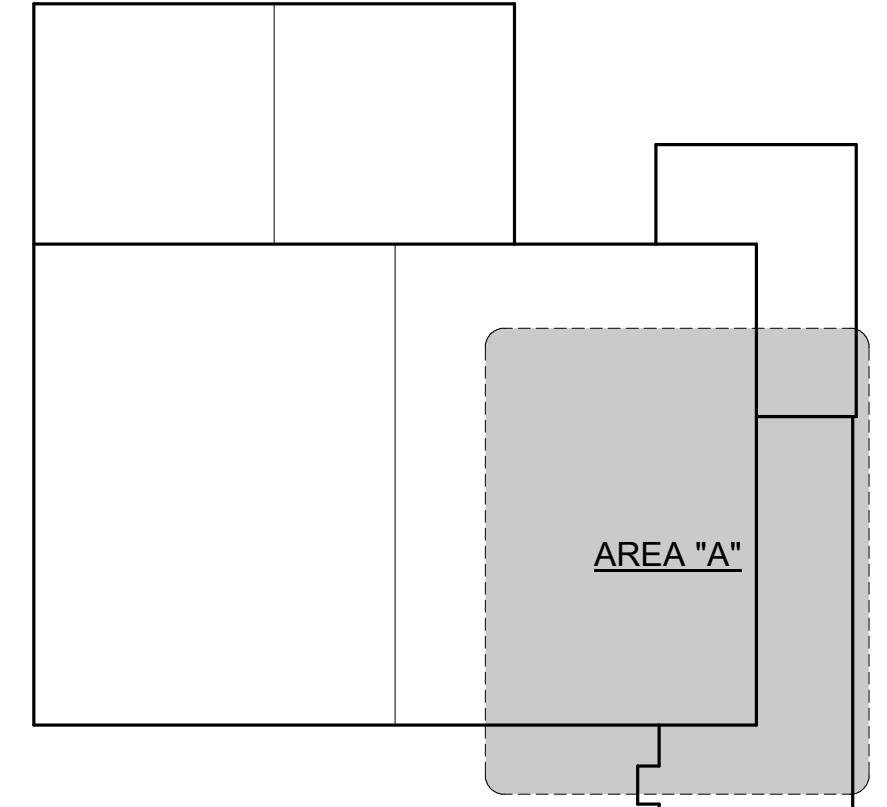
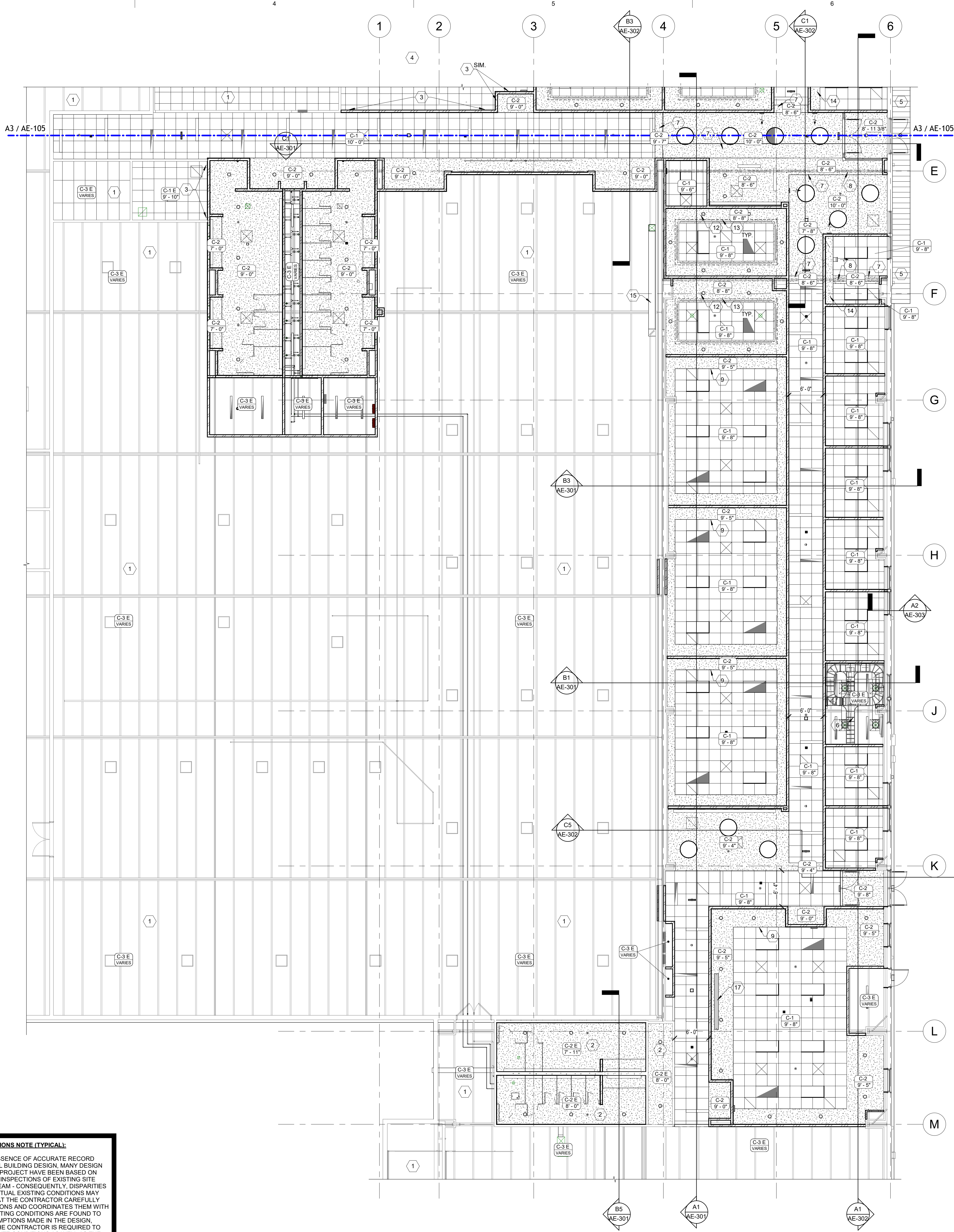
**TYPICAL CEILING DETAILS**  
REFER TO SHEET AE-501 FOR TYPICAL CEILING REQUIREMENTS AND DETAILS

**KEYED NOTES**

- REFERENCE AE-104 & AE-105
1. EXISTING SPACE - NO NEW CEILING WORK UNLESS NOTED OTHERWISE - COORDINATE WITH MEP DRAWINGS AS REQ'D.
  2. EXISTING GYP. BD. AND METAL FRAME / SUSPENSION SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY / PATCH / REPAIR / REFINISH AS REQUIRED WHERE AFFECTED BY NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE.
  3. WHERE EXISTING CEILING SYSTEM (SCHEDULED TO REMAIN) BORDERS AN EXISTING WALL THAT IS SCHEDULED FOR DEMOLITION AND REPLACEMENT, CAREFULLY DISASSEMBLE, MODIFY AND REASSEMBLE CEILING / GRID SYSTEM AS REQ'D. FOR A FLUSH, FINISHED FINAL APPEARANCE.
  4. EXISTING SUSPENDED ACOUSTIC PANEL AND GRID CEILING SYSTEM TO REMAIN IN THIS SPACE UNLESS NOTED OTHERWISE - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK
  5. EXISTING METAL SOFFIT SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK
  6. ELECTRICAL WIRE RACEWAY - SEE ELECTRICAL DRAWINGS.
  7. NEW GYP. BD. SOFFIT / METAL STUD FRAMING - WHERE NOT SHOWN ALIGNING WITH ADJACENT WALLS / CORNERS, SOFFIT WIDTH IS TO BE 16" WIDE - WHERE EXISTING STRUCTURAL BEAMS / FRAMES OCCUR ABOVE SOFFIT, F.V. ACTUAL HEIGHT OFF OF FINISH FLOOR AS TO NOT CONFLICT WITH THE UNDERSIDE OF EXISTING STRUCTURAL BEAMS / FRAMES - IF FIELD VERIFIED CONDITIONS REQUIRE THE SOFFIT HEIGHT TO BE DIFFERENT THAN THAT INDICATED ON THIS DRAWING, CONSULT ARCHITECT PRIOR TO BEGINNING NEW SOFFIT WORK.
  8. DASHED LINE INDICATES LINE OF EXISTING STRUCTURAL BEAM / FRAME THAT THE NEW GYP. BD. SOFFITS MUST BE COORDINATED WITH.
  9. NEW GYP. BD. SOFFIT / METAL STUD FRAMING - IN THIS SPACE, COORDINATE THE WIDTH OF THE NEW GYP. BD. SOFFITS AT THE PERIMETER OF THE ROOM, AS TO PROVIDE FULL SUSPENDED ACOUSTIC CEILING GRID / PANELS AS SHOWN (24"x24") - WHERE POSSIBLE, KEEP WIDTH OF THE SOFFITS CONSISTENT - FIELD VERIFY AND COORDINATE AS REQ'D.
  10. FIELD VERIFY OCCURRENCE OF EXISTING STRUCTURAL FRAMING ABOVE THIS SOFFIT - IF OCCURS AND IS IN CONFLICT WITH THIS SOFFIT, CONSULT ARCHITECT PRIOR TO CONSTRUCTING SOFFIT.
  11. WHERE NEW WINDOWS ARE BEING CUT INTO BRICK WALLS, THE EXISTING SOFFIT PANELS WILL NO LONGER BE DEEP ENOUGH TO EXTEND TO THE WINDOW LINE - AT THESE LOCATIONS, REPLACE / MODIFY EXISTING SOFFIT PANELS WITH NEW, COLOR / STYLE MATCHED SOFFIT PANELS - FIELD VERIFY EXISTING PANELS AND COORDINATE AS REQ'D.
  12. NEW GYP. BD. SOFFIT / LIGHT COVE / METAL STUD FRAMING - COORDINATE WITH A1/AE-506 - IN THIS SPACE, COORDINATE THE WIDTH OF THE NEW GYP. BD. SOFFITS AT THE PERIMETER OF THE ROOM, AS TO PROVIDE FULL SUSPENDED ACOUSTIC CEILING GRID / PANELS AS SHOWN (24"x24") - WHERE POSSIBLE, KEEP WIDTH OF THE SOFFITS CONSISTENT - FIELD VERIFY AND COORDINATE AS REQ'D.
  13. LAY-IN ACOUSTIC PANELS TO RUN TO THIS LINE ABOVE THE LIGHT COVE - COORDINATE WITH A1/AE-506
  14. NEW GYP. BD. AND METAL STUD SOFFIT BENEATH DUCT RUN ABOVE
  15. PAINT NEW EXPOSED DUCTWORK - PATCH / REPAIR / REFINISH EXISTING BUILDING ELEMENTS WHERE NEW DUCTWORK PENETRATES WALLS.
  16. CAREFULLY COORDINATE AND LAYOUT CEILING FRAMING IN THIS AREA TO ACCOUNT FOR THE RECESSED LIGHTING FIXTURE LAYOUT
  17. PROJECTION SCREEN - SEE ELECTRICAL DRAWINGS

**EXISTING CONDITIONS NOTE (TYPICAL):**  
NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION) BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK

**GENERAL CEILING NOTE:**  
NOTE THAT THE LOCATION AND DIRECTION OF THE SUSPENDED CEILINGS, MAIN RUNNER GRIDS, MUST BE CAREFULLY LAID OUT AS TO NOT CONFLICT WITH LIGHTING LAYOUTS - PARTICULAR ATTENTION MUST BE TAKEN WHERE LAYING OUT THE CEILING GRIDS IN THE CORRIDORS THAT HAVE THE ALTERNATING LIGHTING LAYOUTS - IN THESE CORRIDORS, MAIN RUNNERS MUST RUN ACROSS THE WIDTH OF THE CORRIDORS (NOT THE LENGTH OF THE CORRIDORS) - COORDINATE AS REQUIRED



**KEY PLAN - AREA "A"**  
1" = 8'-0"

**A4 LEVEL 1 - CEILING PLAN - AREA "A"**  
1/8" = 1'-0"

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

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*[Signature]*  
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PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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SHEET TITLE:  
**AREA "A"  
REFLECTED  
CEILING PLAN**

SHEET NUMBER:  
**AE-104**



**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS MADE FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK

- KEYED NOTES** REFERENCE AE-104 & AE-105
- EXISTING SPACE - NO NEW CEILING WORK UNLESS NOTED OTHERWISE - COORDINATE WITH MEP DRAWINGS AS REQ'D.
  - EXISTING GYP. BD. AND METAL FRAME / SUSPENSION SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY / PATCH / REPAIR / REFINISH AS REQUIRED WHERE AFFECTED BY NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE.
  - WHERE EXISTING CEILING SYSTEM (SCHEDULED TO REMAIN) BORDERS AN EXISTING WALL THAT IS SCHEDULED FOR DEMOLITION AND REPLACEMENT, CAREFULLY DISASSEMBLE, MODIFY AND REASSEMBLE CEILING / GRID SYSTEM AS REQ'D. FOR A FLUSH, FINISHED FINAL APPEARANCE.
  - EXISTING SUSPENDED ACOUSTIC PANEL AND GRID CEILING SYSTEM TO REMAIN IN THIS SPACE UNLESS NOTED OTHERWISE - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK
  - EXISTING METAL SOFFIT SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D WHERE AFFECTED BY NEW WORK.
  - ELECTRICAL WIRE RACEWAY - SEE ELECTRICAL DRAWINGS.
  - NEW GYP. BD. SOFFIT / METAL STUD FRAMING - WHERE NOT SHOWN ALIGNING WITH ADJACENT WALLS / CORNERS, SOFFIT WIDTH IS TO BE 16" WIDE - WHERE EXISTING STRUCTURAL BEAMS / FRAMES OCCUR ABOVE SOFFIT, F.V. ACTUAL HEIGHT OFF OF FINISH FLOOR AS TO NOT CONFLICT WITH THE UNDERSIDE OF EXISTING STRUCTURAL BEAMS / FRAMES - IF FIELD VERIFIED CONDITIONS REQUIRE THE SOFFIT HEIGHT TO BE DIFFERENT THAN THAT INDICATED ON THIS DRAWING, CONSULT ARCHITECT PRIOR TO BEGINNING NEW SOFFIT WORK.
  - DASHED LINE INDICATES LINE OF EXISTING STRUCTURAL BEAM / FRAME THAT THE NEW GYP. BD. SOFFITS MUST BE COORDINATED WITH.
  - NEW GYP. BD. SOFFIT / METAL STUD FRAMING - IN THIS SPACE, COORDINATE THE WIDTH OF THE NEW GYP. BD. SOFFITS AT THE PERIMETER OF THE ROOM, AS TO PROVIDE FULL SUSPENDED ACOUSTIC CEILING GRID / PANELS AS SHOWN (24"x24") - WHERE POSSIBLE, KEEP WIDTH OF THE SOFFITS CONSISTENT - FIELD VERIFY AND COORDINATE AS REQ'D.
  - FIELD VERIFY OCCURRENCE OF EXISTING STRUCTURAL FRAMING ABOVE THIS SOFFIT - IF OCCURS AND IS IN CONFLICT WITH THIS SOFFIT, CONSULT ARCHITECT PRIOR TO CONSTRUCTING SOFFIT.
  - WHERE NEW WINDOWS ARE BEING CUT INTO BRICK WALLS, THE EXISTING SOFFIT PANELS WILL NO LONGER BE DEEP ENOUGH TO EXTEND TO THE WINDOW LINE - AT THESE LOCATIONS, REPLACE / MODIFY EXISTING SOFFIT PANELS WITH NEW, COLOR / STYLE MATCHED SOFFIT PANELS - FIELD VERIFY EXISTING PANELS AND COORDINATE AS REQ'D.
  - NEW GYP. BD. SOFFIT / LIGHT COVE / METAL STUD FRAMING - COORDINATE WITH A1/AE-506 - IN THIS SPACE, COORDINATE THE WIDTH OF THE NEW GYP. BD. SOFFITS AT THE PERIMETER OF THE ROOM, AS TO PROVIDE FULL SUSPENDED ACOUSTIC CEILING GRID / PANELS AS SHOWN (24"x24") - WHERE POSSIBLE, KEEP WIDTH OF THE SOFFITS CONSISTENT - FIELD VERIFY AND COORDINATE AS REQ'D.
  - LAY-IN ACOUSTIC PANELS TO RUN TO THIS LINE ABOVE THE LIGHT COVE - COORDINATE WITH A1/AE-506
  - NEW GYP. BD. AND METAL STUD SOFFIT BENEATH DUCT RUN ABOVE
  - PAINT NEW EXPOSED DUCTWORK - PATCH / REPAIR / REFINISH EXISTING BUILDING ELEMENTS WHERE NEW DUCTWORK PENETRATES WALLS.
  - CAREFULLY COORDINATE AND LAYOUT CEILING FRAMING IN THIS AREA TO ACCOUNT FOR THE RECESSED LIGHTING FIXTURE LAYOUT
  - PROJECTION SCREEN - SEE ELECTRICAL DRAWINGS

**CEILING SYMBOLS**

- EXTG. METAL SOFFIT SYSTEM - PROTECT FROM DAMAGE
- HEIGHT OF CEILING OR OTHER SURFACE OFF OF FINISHED FLOOR ELEVATION
- OPEN TO STRUCTURE (NO CEILING) - COORDINATE WITH FINISH SCHEDULE
- HEIGHT OF CEILING OR STRUCTURE VARIES ABOVE FINISHED FLOOR ELEVATION
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 2x2 OR 2x4 TROFFER LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- SPEAKER - SEE ELECTRICAL DRAWINGS
- EXIT SIGN - SEE ELECTRICAL DRAWINGS
- HORNSTROBE - SEE ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
- RETURN AIR DIFFUSER - SEE MECHANICAL DRAWINGS
- EXHAUST LOUVER - SEE MECHANICAL DRAWINGS

**CEILING TYPES**

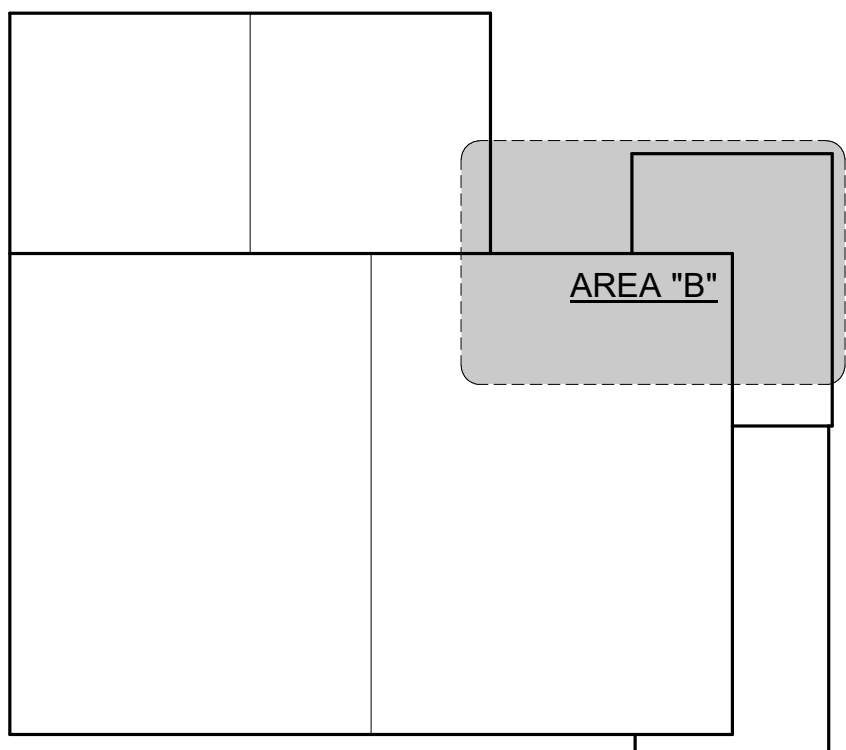
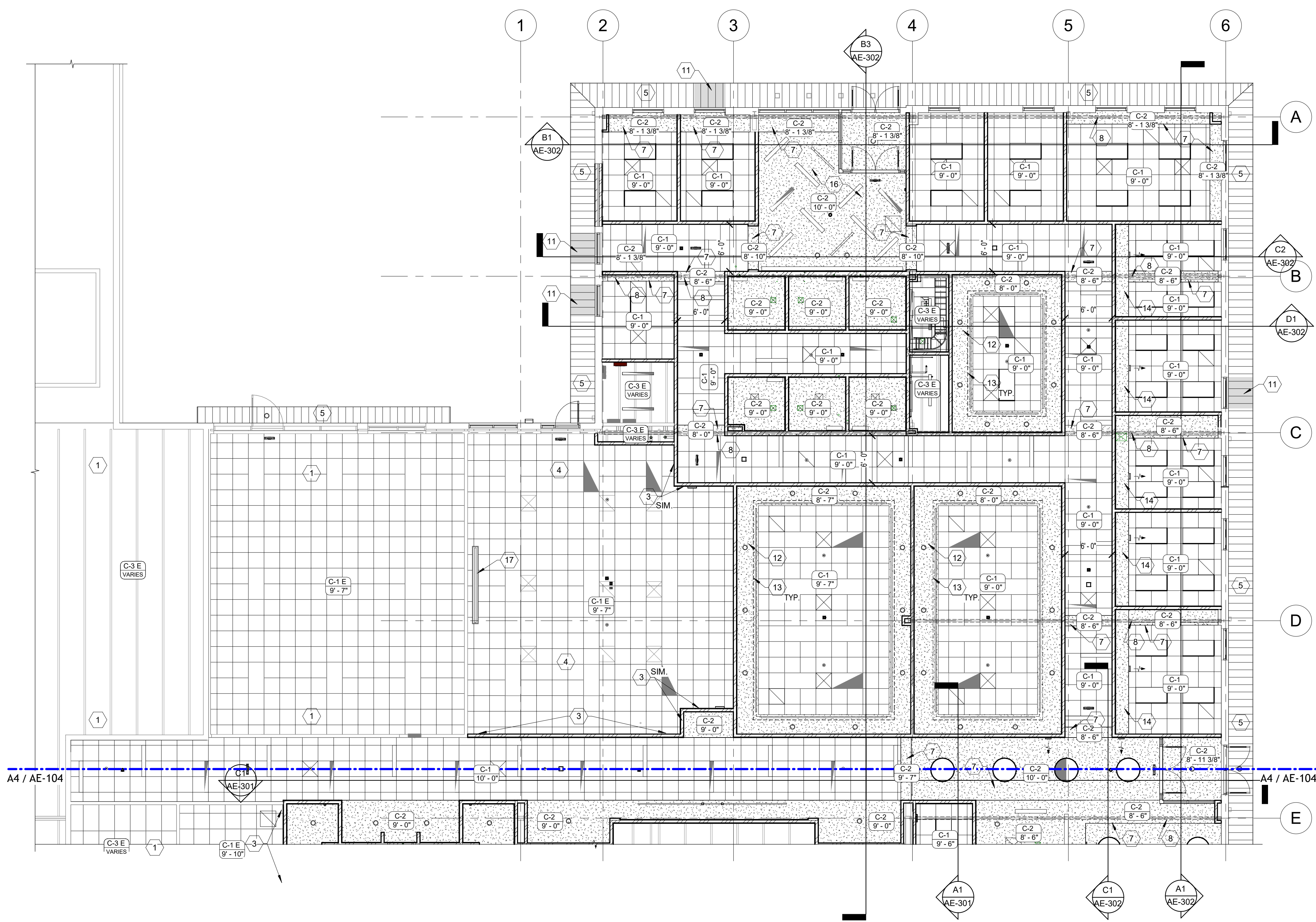
- NEW 2'x4' SUSPENDED ACOUSTIC LAY-IN PANEL CEILING SYSTEM - (SECOND LOOK 2'x2' APPEARANCE) - GRID TO BE 15/16" TYP. - PROVIDE BEAM END SEISMIC RETAINING CLIPS, AND 15/16" DEEP WALL ANGLES. INSTALLATION OF CLIPS MUST BE DONE AS TO MEET ALL REFERENCED CODE REQUIREMENTS - SEE SPEC.
- EXTG. 2'x2' SUSPENDED ACOUSTIC LAY-IN PANEL CEILING SYSTEM - PROTECT FROM DAMAGE - MODIFY AS REQUIRED WHERE AFFECTED BY NEW WORK - F.V. AND COORD. AS REQ'D.
- NEW 5/8" TYPE "X" GYP. BD. CEILING / SOFFIT SYSTEM - CEILINGS ARE TO BE SUSPENDED AND SOFFITS ARE TO BE METAL STUD FRAMED
- EXTG. GYP. BD. CEILING SYSTEM - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK
- OPEN TO EXISTING STRUCTURE ABOVE - EXTG. STRUCTURE IS TYPICALLY A 7" PURLIN SYSTEM AND METAL DECK WITH FACED INSULATION BETWEEN PURLINS - MODIFY AS REQ'D. WHERE AFFECTED BY NEW WORK - F.V. EXTG. CONDITIONS AND COORDINATE AS REQ'D.

**TYPICAL CEILING DETAILS**

REFER TO SHEET AE-501 FOR TYPICAL CEILING REQUIREMENTS AND DETAILS

**GENERAL CEILING NOTE:**

NOTE THAT THE LOCATION AND DIRECTION OF THE SUSPENDED CEILINGS, MAIN RUNNER GRIDS, MUST BE CAREFULLY LAID OUT AS TO NOT CONFLICT WITH LIGHTING LAYOUTS - PARTICULAR ATTENTION MUST BE TAKEN WHERE LAYING OUT THE CEILING GRIDS IN THE CORRIDORS THAT HAVE THE ALTERNATING LIGHTING LAYOUTS - IN THESE CORRIDORS, MAIN RUNNERS MUST RUN ACROSS THE WIDTH OF THE CORRIDORS (NOT THE LENGTH OF THE CORRIDORS) - COORDINATE AS REQUIRED



**KEY PLAN - AREA "B"**

1" = 8'-0"

**A3 LEVEL 1 - CEILING PLAN - AREA "B"**

1/8" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

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**SPE PROJECT #:** 22-38  
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**CHECKED BY:** SPE  
**DESIGNED BY:** SPE  
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**SHEET TITLE:** AREA "B" REFLECTED CEILING PLAN  
**SHEET NUMBER:** AE-105

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321



**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

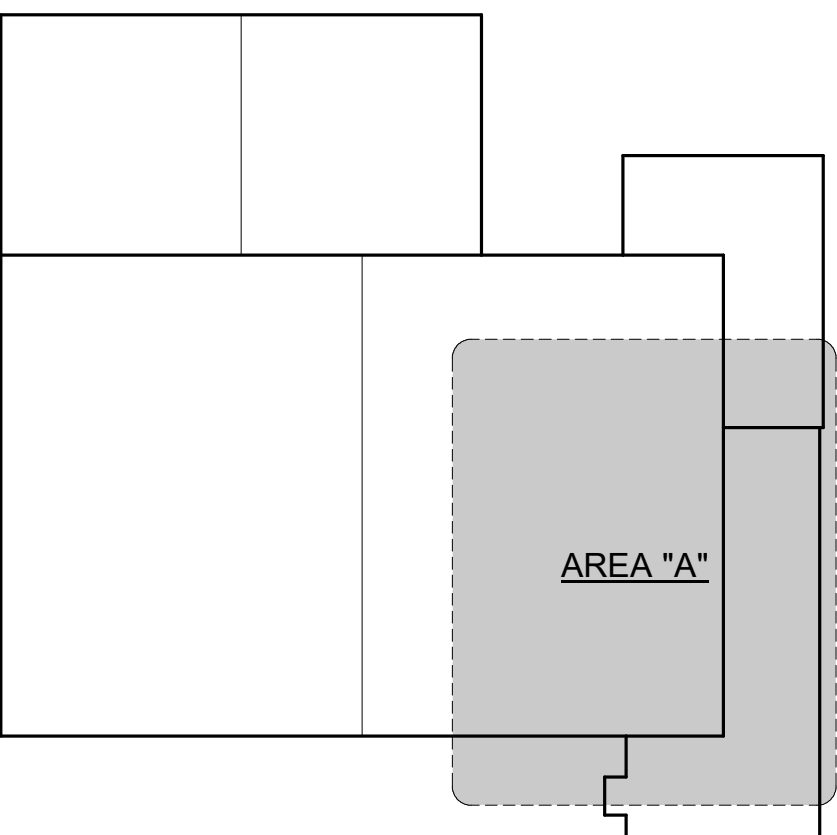
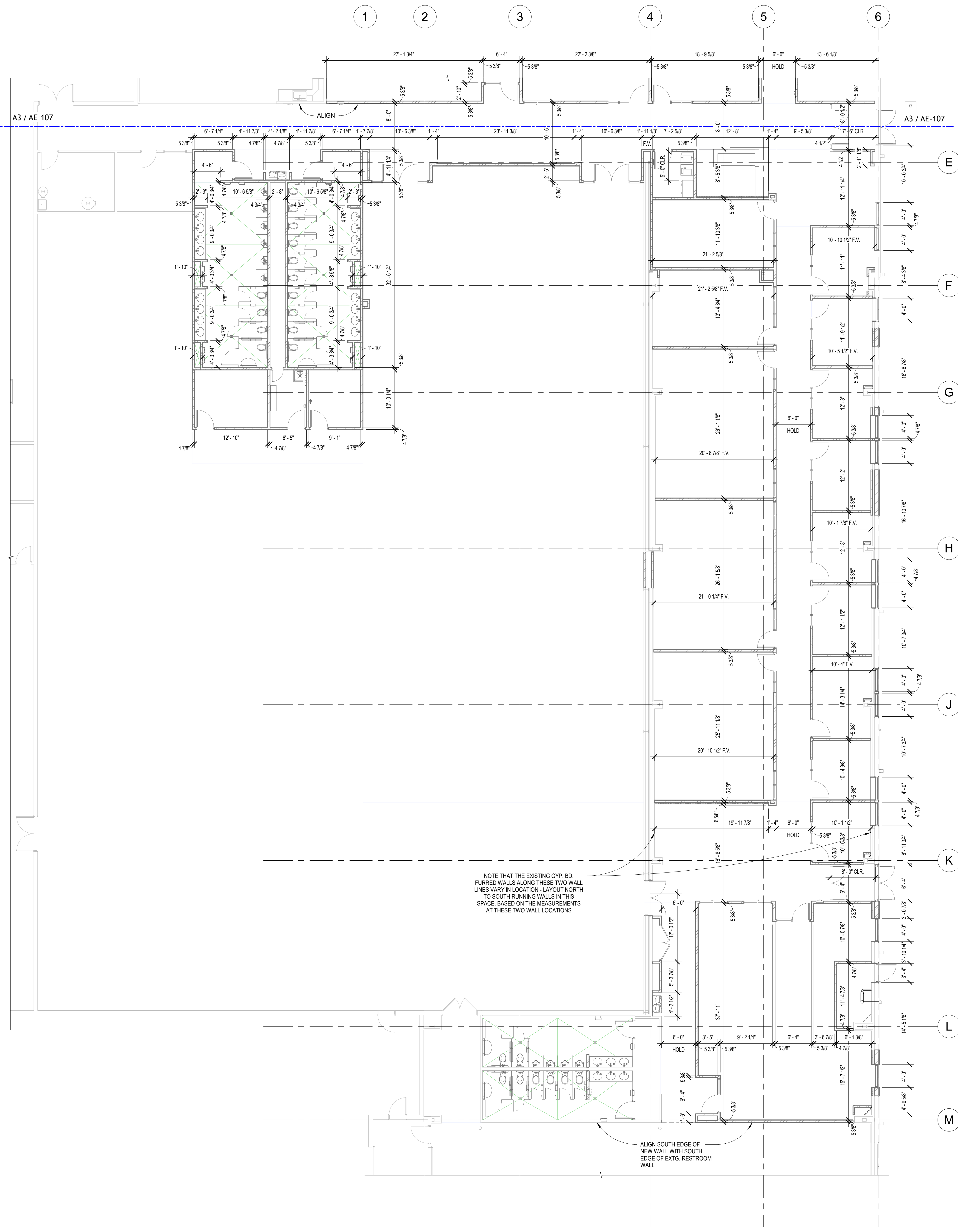
**GENERAL DIMENSION NOTES:**

NOTE THAT DIMENSIONS IN RESTROOMS DO NOT ACCOUNT FOR THE WALL TILE THICKNESS - SEE ENLARGED RESTROOM PLANS FOR ADDITIONAL DIMENSIONS

PLEASE NOTE THAT THE DIMENSIONS PROVIDED ON THIS PLAN ARE BASED ON THE SURFACES OF EXISTING WALLS OR OTHER BUILDING ELEMENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION - DIMENSIONS ARE NOT TO GRID LINES - GIVEN THE POSSIBILITY THAT THE ACTUAL CONDITIONS OF THESE EXISTING BUILDING ELEMENTS MAY SLIGHTLY VARY, IT IS CRUCIAL FOR THE CONTRACTOR, TO CAREFULLY VERIFY ALL DIMENSION STRINGS IN THE FIELD - IF SIGNIFICANT DISCREPANCIES ARE FOUND FROM THE INDICATED DIMENSIONS, CONSULT THE ARCHITECT FOR A RESOLUTION BEFORE COMMENCING WORK

**CORRIDOR DIMENSIONS:**

NOTE THAT WHERE 6" - 0" "HOLD" IS INDICATED FOR CORRIDOR DIMENSIONS, IT IS IMPORTANT THAT THESE CORRIDORS FINAL CLEAR DIMENSION IS NOT LESS THAN 6' - 0" - IF CONSTRUCTED LESS THAN 6' - 0" THE STAGGERED LIGHTING LAYOUT AS DESIGNED WILL NOT BE ACHIEVABLE - CAREFULLY COORDINATE AS REQ'D.



**KEY PLAN - AREA "A"**  
1" = 80'-0"

**A3 LEVEL 1 - DIMENSION PLAN - AREA "A"**  
1" = 1'-0"

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

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SHEET TITLE:

**AREA "A"  
DIMENSION PLAN**

SHEET NUMBER:

**AE-106**



**EXISTING CONDITIONS NOTE (TYPICAL):**  
 NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**GENERAL DIMENSION NOTES:**  
 NOTE THAT DIMENSIONS IN RESTROOMS DO NOT ACCOUNT FOR THE WALL TILE THICKNESS - SEE ENLARGED RESTROOM PLANS FOR ADDITIONAL DIMENSIONS  
 PLEASE NOTE THAT THE DIMENSIONS PROVIDED ON THIS PLAN ARE BASED ON THE SURFACES OF EXISTING WALLS OR OTHER BUILDING ELEMENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION - DIMENSIONS ARE NOT TO GRID LINES - GIVEN THE POSSIBILITY THAT THE ACTUAL CONDITIONS OF THESE EXISTING BUILDING ELEMENTS MAY SLIGHTLY VARY, IT IS CRUCIAL FOR THE CONTRACTOR, TO CAREFULLY VERIFY ALL DIMENSION STRINGS IN THE FIELD - IF SIGNIFICANT DISCREPANCIES ARE FOUND FROM THE INDICATED DIMENSIONS, CONSULT THE ARCHITECT FOR A RESOLUTION BEFORE COMMENCING WORK.


**CORRIDOR DIMENSIONS:**  
 NOTE THAT WHERE 6'-0" "HOLD" IS INDICATED FOR CORRIDOR DIMENSIONS, IT IS IMPORTANT THAT THESE CORRIDORS FINAL CLEAR DIMENSION IS NOT LESS THAN 6'-0" - IF CONSTRUCTED LESS THAN 6'-0" THE STAGGERED LIGHTING LAY-OUT AS DESIGNED WILL NOT BE ACHIEVABLE - CAREFULLY COORDINATE AS REQ'D.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
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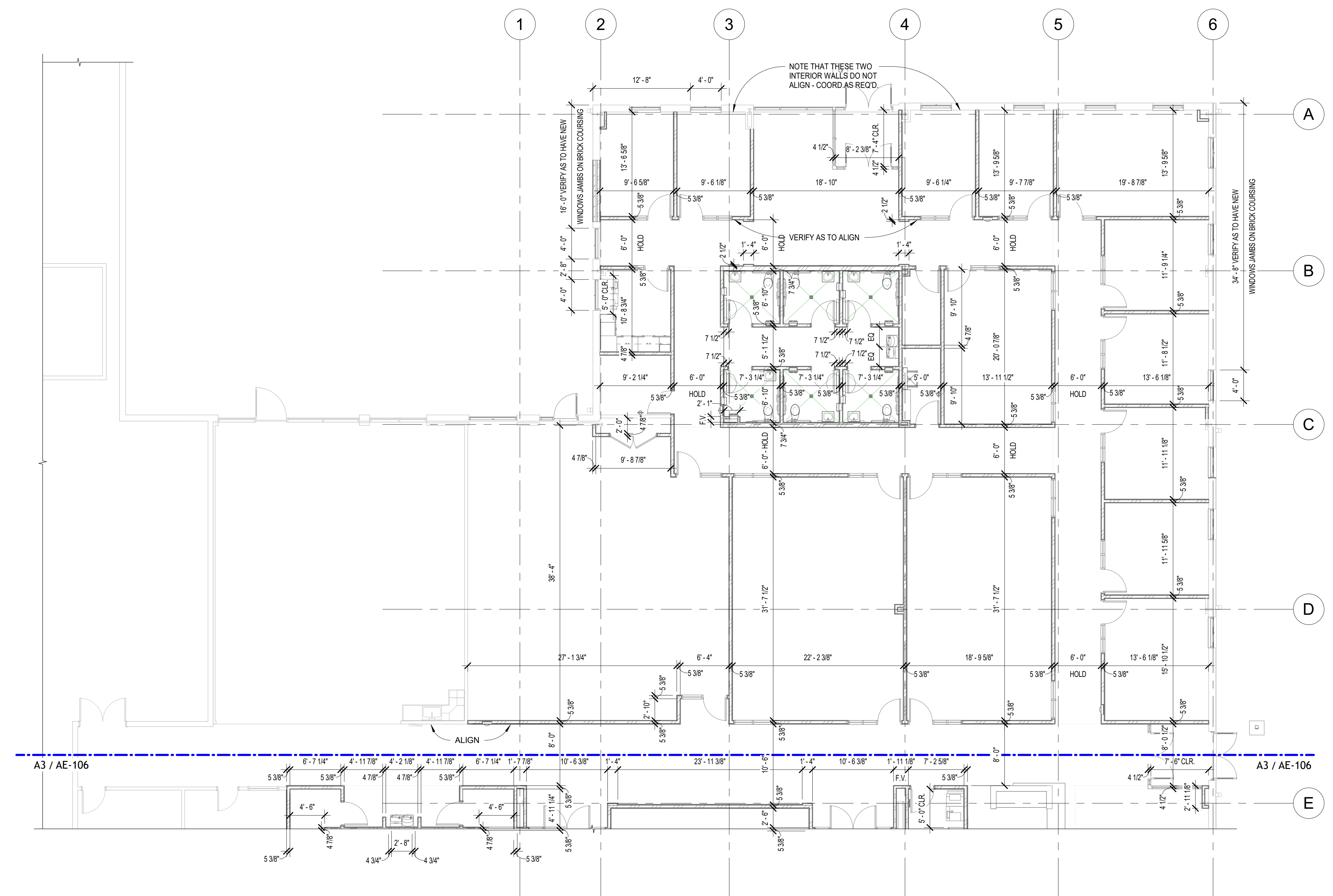


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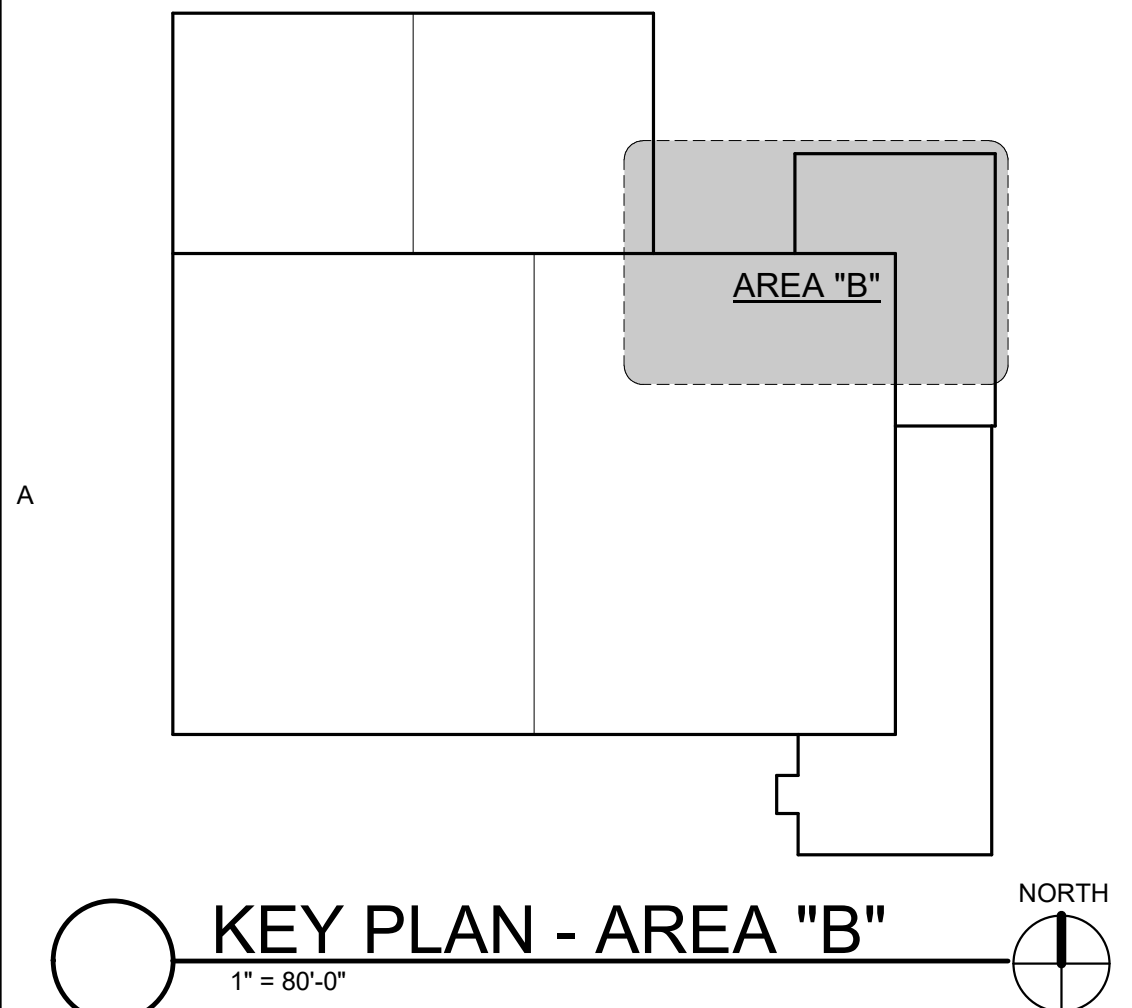


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**A3 LEVEL 1 - DIMENSION PLAN - AREA "B"**  
 1/8" = 1'-0"



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**AREA "B"  
 DIMENSION PLAN**

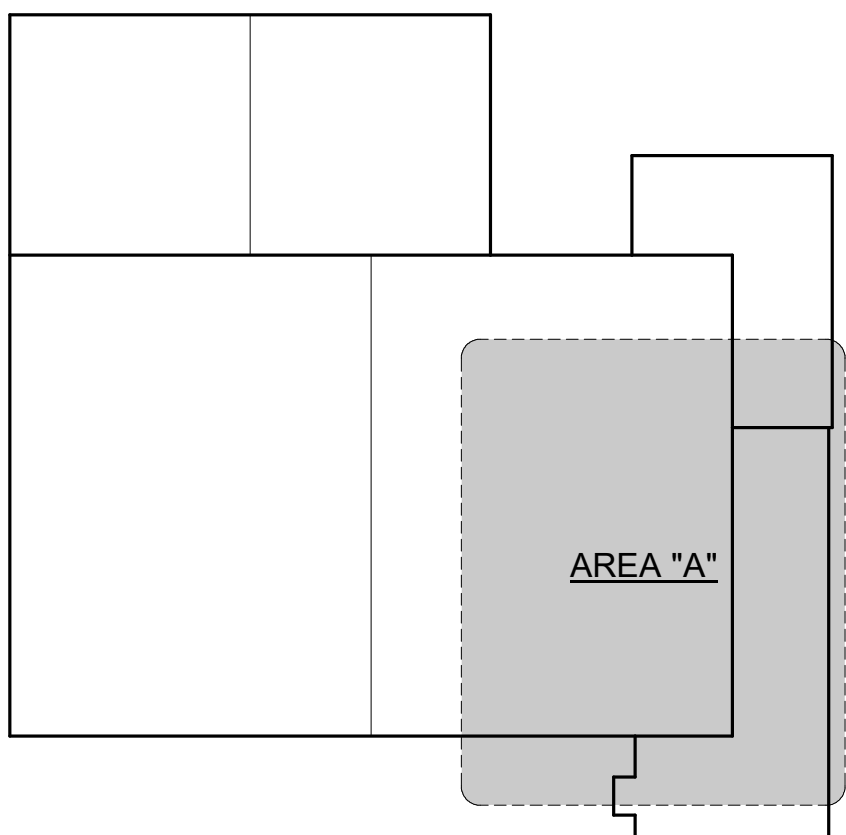
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**AE-107**



**EXISTING CONCRETE SLAB PREP. (TYPICAL):**  
 NOTE THAT ALL EXISTING INTERIOR CONCRETE SLABS THAT ARE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE PREPARED (GROUND / LEVELED / PATCHED / REPAIRED) AS REQUIRED BY NEW FLOORING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS. AS WELL AS TO NOT ALLOW FOR ANY EXISTING SLAB IMPERFECTIONS TO BE PERCEPTIBLE ONCE NEW FLOORING SYSTEMS ARE IN PLACE - FIELD VERIFY ALL SUCH WORK AND COORDINATE AS REQ'D.

**FLOOR FINISHES NOTE:**  
 NOTE THAT THE LVP AND CARPET PLANK FLOORING SHOWN ON THIS PLAN IS INTENDED TO INDICATE THE DIRECTION OF NEW PLANK FLOORING - COORDINATE ACTUAL SIZE OF PLANKS, AND FINAL LAYOUT AS REQ'D - COORDINATE FLOORING TYPES WITH THE FINISH SCHEDULE AND SPECIFICATIONS

- KEYED NOTES** REFERENCE AE-108 & AE-109
- SCHEDULED THRESHOLD / TRANSITION BETWEEN FLOORING TYPES TO OCCUR BENEATH THE DOOR IN THE CLOSED POSITION (TYP.) - COORDINATE WITH FINISH SCHEDULE
  - WHERE SEALED CONCRETE IS SCHEDULED FOR NEW FINISH FLOORING, REMOVE EXISTING FINISH FLOORING SYSTEM AND PREP SLAB AS REQUIRED BY SEALER MANUFACTURERS WRITTEN INSTRUCTIONS
  - NEW THICK SET FLOOR TILE (TILE TYPE "T-2") - RECESS NEW CONCRETE SLAB IN THIS SPACE 2" TO ALLOW FOR NEW THICK SET FLOORING SYSTEM - SLOPE THICKSET TILE FLOORING / SETTING BED (2% MAXIMUM SLOPE) TO DRAIN AS INDICATED
  - NEW THINSET TILE FLOORING SYSTEM IN THIS SPACE TO BE INSTALLED DIRECTLY OVER EXISTING CONCRETE SLAB - NEW THRESHOLD BETWEEN TILE AND ENTRY VESTIBULE MUST MEET ADA REQUIREMENTS - MODIFY EXISTING FLOOR DRAIN AS TO FLUSH OUT WITH NEW TILE SURFACE (SEE PLUMBING DRAWINGS)
  - EXISTING CARPETING IN THIS SPACE TO REMAIN AND BE PROTECTED - AT THE PERIMETER OF THE ROOM, WHERE NEW WORK IS SCHEDULED, CAREFULLY PULL BACK EXISTING CARPET, MODIFY AND RE-ADHERE AS REQ'D. TO WORK WITH NEW WALLS
  - NEW LVP FLOORING SYSTEM IS TO RUN THROUGH THE GAP IN THE RECEPTION COUNTER
  - EXISTING VCT FLOORING SYSTEM IS TO REMAIN SOUTH OF THE NEW CONSTRUCTION - MODIFY AS REQ'D.
  - EXISTING FLOORING IN THIS SPACE TO REMAIN AND BE PROTECTED FROM DAMAGE - NO NEW FLOORING WORK UNLESS NOTED OTHERWISE
  - PROVIDE NEW LVP TRANSITION STRIP AT THE TERMINATION OF THE NEW LVP FLOORING / ADJACENT EXTG. FLOORING SYSTEM



**KEY PLAN - AREA "A"**  
 1" = 80'-0"

**A3 LEVEL 1 - FLOORING & FINISHES PLAN - AREA "A"**  
 1/8" = 1'-0"

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

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SHEET TITLE:  
**AREA "A"  
 FLOORING &  
 FINISHES**

SHEET NUMBER:  
**AE-108**



**EXISTING CONCRETE SLAB PREP. (TYPICAL):**

NOTE THAT ALL EXISTING INTERIOR CONCRETE SLABS THAT ARE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE SCHEDULED FOR NEW FINISHED FLOORING SYSTEMS ARE TO BE PREPARED (GROUND / LEVELED / PATCHED / REPAIRED) AS REQUIRED BY NEW FLOORING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS, AS WELL AS TO NOT ALLOW FOR ANY EXISTING SLAB IMPERFECTIONS TO BE PERCEPTIBLE ONCE NEW FLOORING SYSTEMS ARE IN PLACE - FIELD VERIFY ALL SUCH WORK AND COORDINATE AS REQ'D.

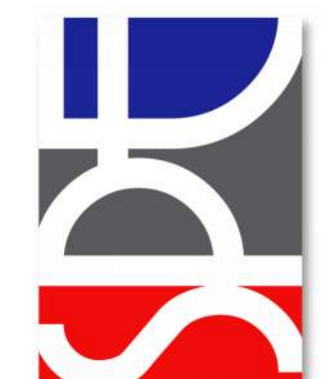
**FLOOR FINISHES NOTE:**

NOTE THAT THE LVP AND CARPET PLANK FLOORING SHOWN ON THIS PLAN IS INTENDED TO INDICATE THE DIRECTION OF NEW PLANK FLOORING - COORDINATE ACTUAL SIZE OF PLANKS, AND FINAL LAYOUT AS REQ'D - COORDINATE FLOORING TYPES WITH THE FINISH SCHEDULE AND SPECIFICATIONS

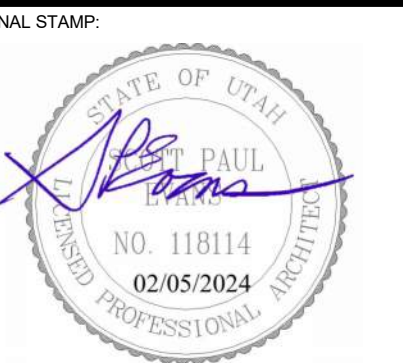
**KEYED NOTES**

REFERENCE AE-108 & AE-109

- SCHEDULED THRESHOLD / TRANSITION BETWEEN FLOORING TYPES TO OCCUR BENEATH THE DOOR IN THE CLOSED POSITION (TYP.) - COORDINATE WITH FINISH SCHEDULE
- WHERE SEALED CONCRETE IS SCHEDULED FOR NEW FINISH FLOORING, REMOVE EXISTING FINISH FLOORING SYSTEM AND PREP SLAB AS REQUIRED BY SEALER MANUFACTURERS WRITTEN INSTRUCTIONS
- NEW THICK SET FLOOR TILE (TILE TYPE "T-2") - RECESS NEW CONCRETE SLAB IN THIS SPACE 2" TO ALLOW FOR NEW THICK SET FLOORING SYSTEM - SLOPE THICKSET TILE FLOORING / SETTING BED (2% MAXIMUM SLOPE) TO DRAIN AS INDICATED
- NEW THINSET TILE FLOORING SYSTEM IN THIS SPACE TO BE INSTALLED DIRECTLY OVER EXISTING CONCRETE SLAB - NEW THRESHOLD BETWEEN TILE AND ENTRY VESTIBULE MUST MEET ADA REQUIREMENTS - MODIFY EXISTING FLOOR DRAIN AS TO FLUSH OUT WITH NEW TILE SURFACE (SEE PLUMBING DRAWINGS)
- EXISTING CARPETING IN THIS SPACE TO REMAIN AND BE PROTECTED - AT THE PERIMETER OF THE ROOM, WHERE NEW WORK IS SCHEDULED, CAREFULLY PULL BACK EXISTING CARPET, MODIFY AND RE-ADHERE AS REQ'D. TO WORK WITH NEW WALLS
- NEW LVP FLOORING SYSTEM IS TO RUN THROUGH THE GAP IN THE RECEPTION COUNTER
- EXISTING VCT FLOORING SYSTEM IS TO REMAIN SOUTH OF THE NEW CONSTRUCTION - MODIFY AS REQ'D.
- EXISTING FLOORING IN THIS SPACE TO REMAIN AND BE PROTECTED FROM DAMAGE - NO NEW FLOORING WORK UNLESS NOTED OTHERWISE
- PROVIDE NEW LVP TRANSITION STRIP AT THE TERMINATION OF THE NEW LVP FLOORING / ADJACENT EXTG. FLOORING SYSTEM



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com



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**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
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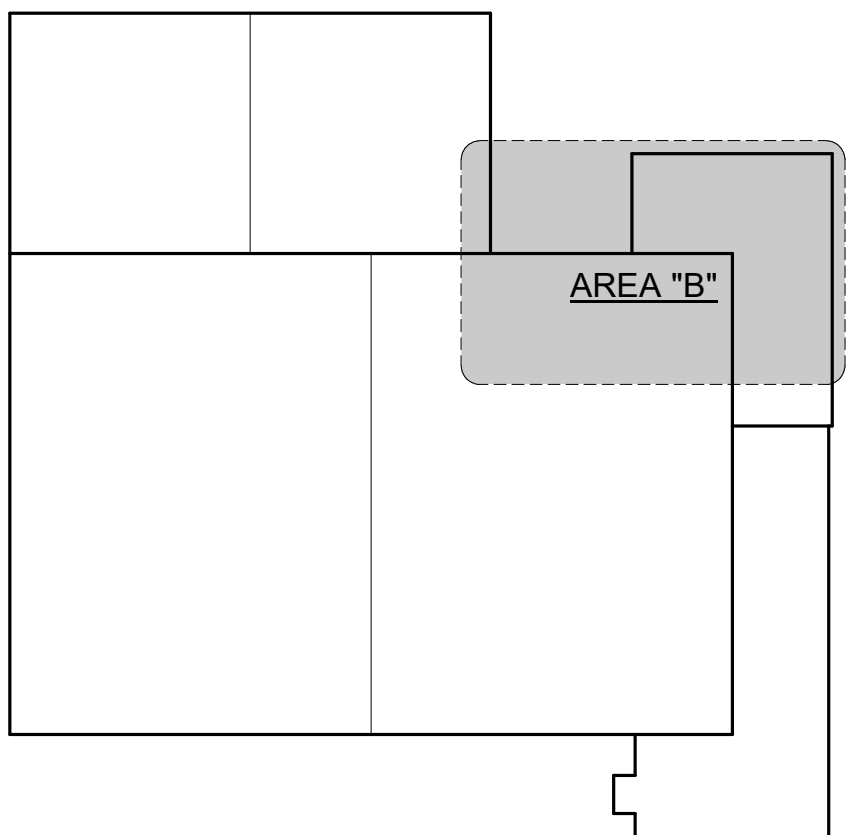
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SHEET TITLE:

**AREA "B"  
FLOORING &  
FINISHES**

SHEET NUMBER:  
**AE-109**



**KEY PLAN - AREA "B"**  
1" = 80'-0"

**A3 LEVEL 1 - FLOORING & FINISHES PLAN - AREA "B"**  
1/8" = 1'-0"

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# WALL TYPES LEGEND

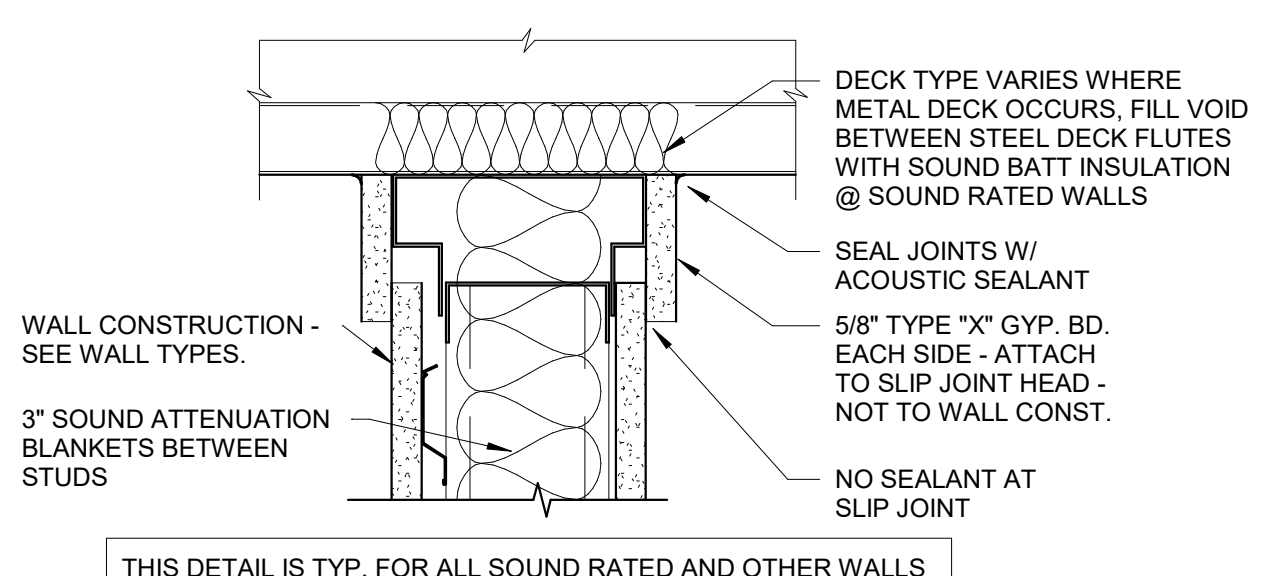
| MARK | DESIGNATION | DESCRIPTION   | SOUND RATING | FIRE RATING | WIDTH   |
|------|-------------|---|--------------|-------------|---------|
| 01   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. each side  | None         | None        | 4 7/8"  |
| 02   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" type "X" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs   | Yes          | None        | 5 3/8"  |
| 03   |             | 5/8" type "X" gyp. bd. on 3 5/8" 20 ga. g.l. metal studs at 16" o.c.  | None         | None        | 4 1/4"  |
| 04   |             | 6" 20 ga. g.l. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" type "X" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs   | Yes          | None        | 7 3/4"  |
| 05   |             | 5/8" type "X" gyp. bd. on 2 1/2" 20 ga. g.l. metal studs at 16" o.c.  | None         | None        | 3 1/8"  |
| 06   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. over 1/2" resilient clip one side and 5/8" ft plywood other side - On the plywood side of the wall, cover entire wall with mat black plastic laminate then install wood look aluminum batten system as detailed - At head and base of batten wall, provide matching 2" deep x 4" tall horizontal battens - Provide 3" sound attenuation blankets between studs | Yes          | None        | 4 7/16" |
| 07   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. over 1/2" resilient clip one side - Provide 3" sound attenuation blankets between studs  | Yes          | None        | 4 3/4"  |

**IMPORTANT WALL TYPE NOTES**  
(COORDINATE AS REQUIRED)

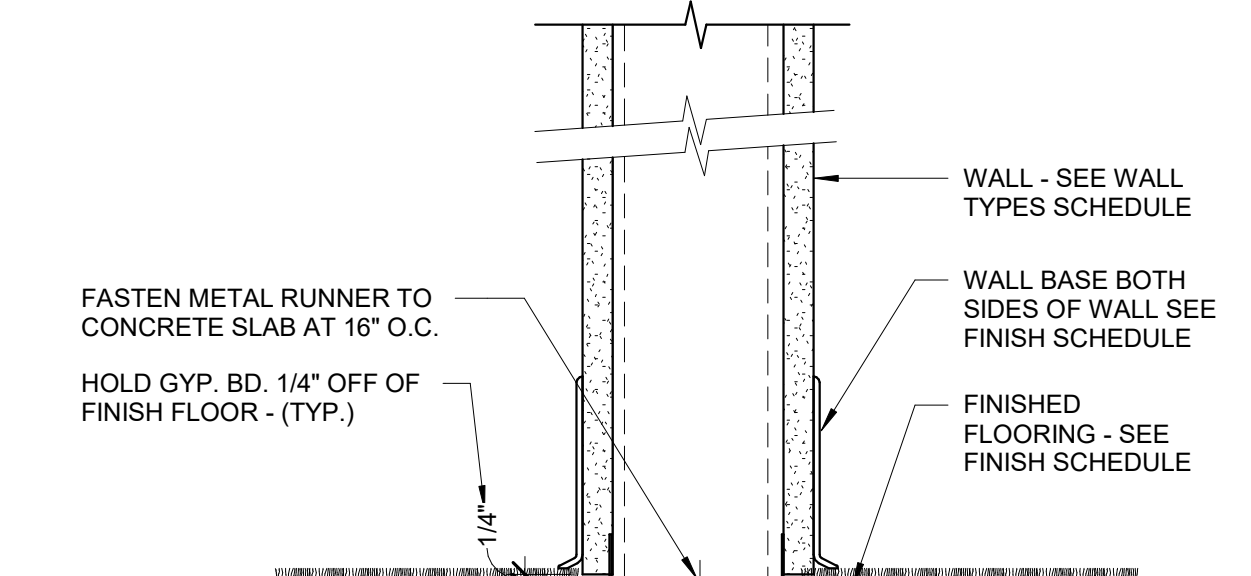
- THE WALL TYPES LEGEND DESCRIBES THE "CORE" WALL TYPE / MATERIALS / WIDTHS ONLY - UNLESS NOTED OTHERWISE, FINISHES SUCH AS PAINT, CERAMIC TILE (THICK & THIN SET), SEALERS ETC. ARE NOT INCLUDED IN THE WALL TYPE DESCRIPTION AND ARE INDICATED IN THE FINISH SCHEDULE - COORDINATE AS REQUIRED.
- ALL NON-STRUCTURAL AND NON-SOUND RATED INTERIOR PARTITIONS AND FURRED WALLS ARE TO (UNLESS NOTED OTHERWISE) RUN TO 6" MIN. ABOVE THE CEILING AND BE BRACED TO THE STRUCTURE AT 4'-0" O.C.
- ALL SOUND / FIRE RATED WALLS (AS OCCUR) ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE WITH A SLIP JOINT AT HEAD OF WALL AND HAVE ALL GAPS SEALED WITH AN ACOUSTICAL / FIRE RATED SEALANT.
- CAREFULLY COORDINATE ALL WALL TYPES WITH THE BUILDING / WALL SECTIONS AS WELL AS ALL REFERENCED ENLARGED DETAILS FOR FURTHER AND MORE DETAILED INFORMATION
- NOTE THAT ALL PARTITIONS / WALLS IN ROOMS WHERE NO CEILING OCCUR, ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE AND BE FULLY FINISHED WHERE WALL SURFACES ARE VISIBLE - ALSO NOTE THAT WALL TYPE SYMBOLS (ON PLAN) THAT HAVE AN ASTERISK "\*" NEAR THEM ARE WALLS THAT ARE REQUIRED TO HAVE THE WALL CONSTRUCTION RUN FULL HEIGHT, TO THE DECK ABOVE - COORDINATE AS REQUIRED.

**ADDITIONAL WALL TYPES NOTES:**

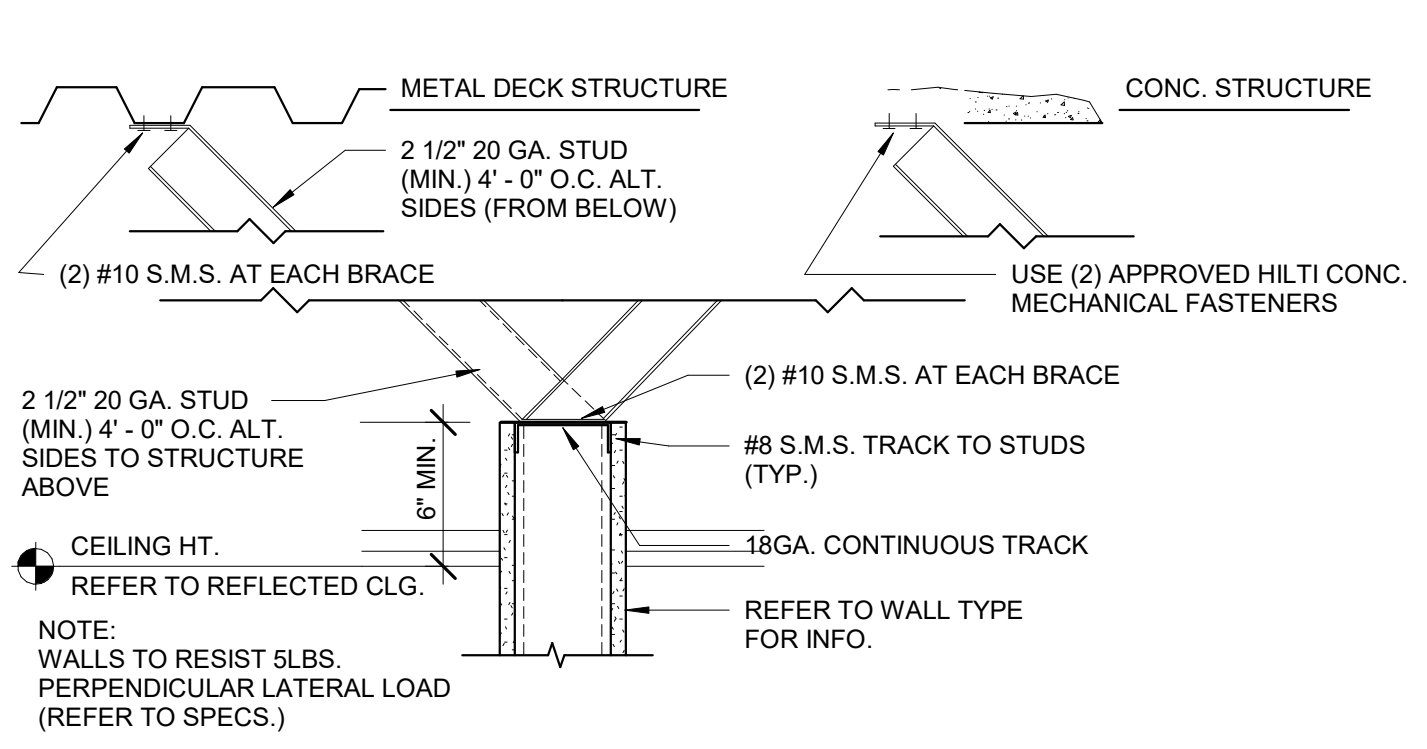
NOTE THAT WALLS THAT ARE NOT TAGGED ON THIS PLAN ARE EXISTING - WHERE EXISTING WALLS ARE BEING AFFECTED BY NEW WORK, EXISTING WALLS ARE TO BE MODIFIED, PATCHED, REPAIRED AND REFINISHED AS REQUIRED TO PERFORM NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE - WHERE EXISTING WALLS ABOUT NEW SOUND RATED WALL SYSTEMS, MODIFY EXISTING WALLS AS REQUIRED TO ACCOMPLISH THE CONTINUITY OF THE NEW SOUND RATED WALL SYSTEM - WHERE EXISTING WALLS ARE BEING MODIFIED / INFILLED DUE TO NEW DOORS / WINDOWS ETC. FIELD VERIFY EXISTING WALL CONDITIONS AND MATCH INFILLED / MODIFIED AREAS AS REQD. TO MATCH EXISTING WALL ELEMENTS - EXISTING INTERIOR WALLS ALONG GRIDS 4, 6 & A ARE TO BE MODIFIED / EXTENDED IN HEIGHT AS TO BE 6" HIGHER THAN THE NEW CEILING HEIGHTS - ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED AND COORDINATE WITH AS REQUIRED



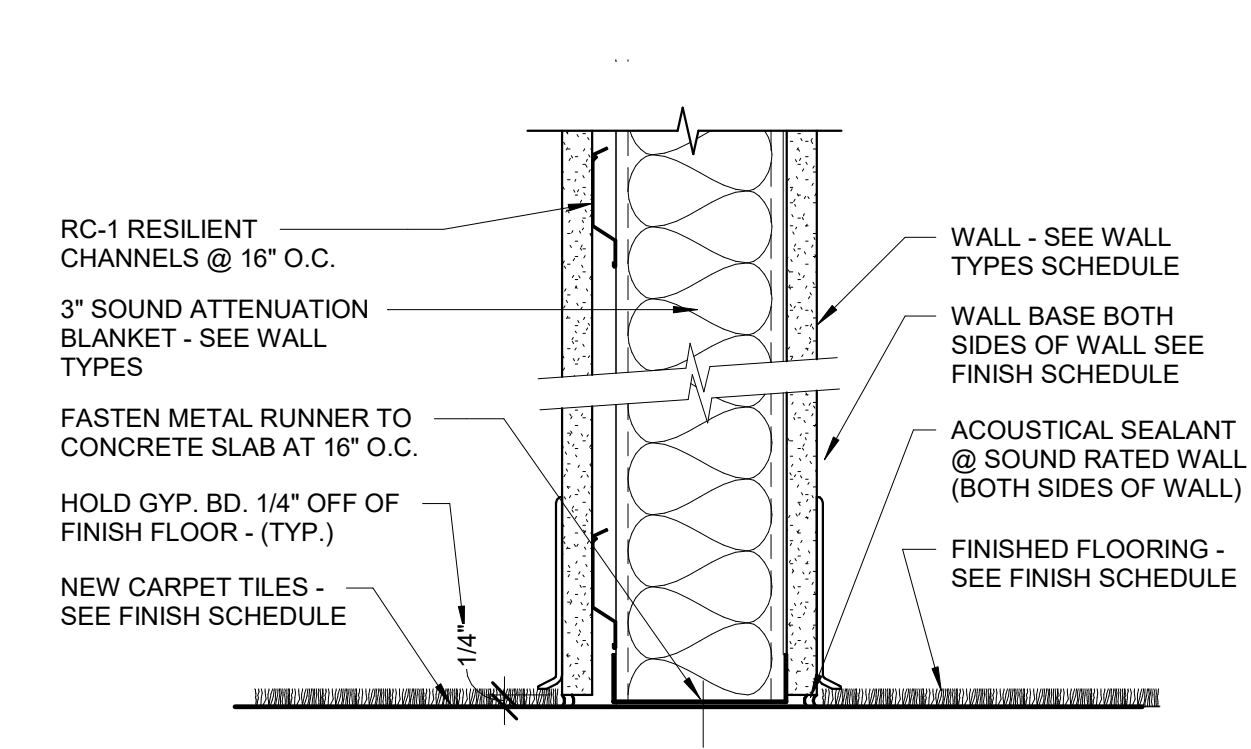
**C1 WALL SLIP JOINT DETAIL**  
3" = 1'-0"



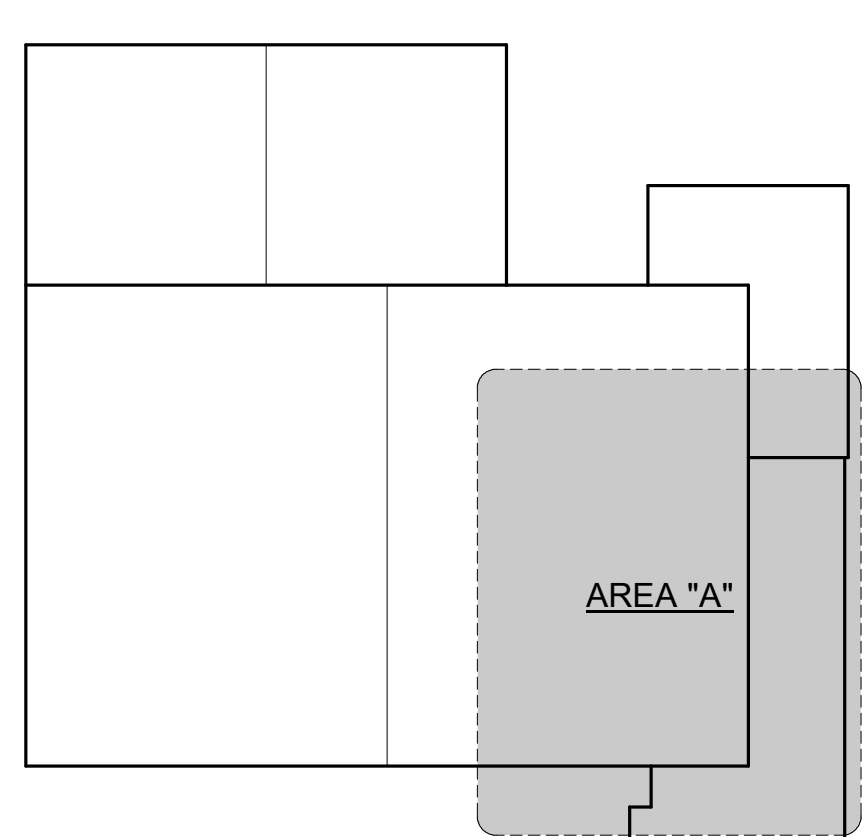
**C2 TYP. WALL BASE**  
3" = 1'-0"



**B1 WALL BRACE DETAIL**  
1 1/2" = 1'-0"



**B2 TYP. SOUND WALL BASE**  
3" = 1'-0"



**KEY PLAN - AREA "A"**  
1" = 80'-0"

**A3 LEVEL 1 - WALL TYPES - AREA "A"**  
1/8" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

**PROFESSIONAL STAMP**

**CODE OFFICIAL STAMP**

**PROJECT NAME:**  
BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**REVISIONS:**

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**ISSUED:**

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| 01  | 02/05/24 | PERMIT SET  |

**OWNER PROJECT #:** 24139210  
**SPE PROJECT #:** 22-38  
**DRAWN BY:** GTE  
**CHECKED BY:** SPE  
**DESIGNED BY:** SPE  
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**SHEET TITLE:**  
AREA "A" WALL TYPES

**SHEET NUMBER:**  
AE-110



# WALL TYPES LEGEND

| MARK | DESIGNATION | DESCRIPTION   | SOUND RATING | FIRE RATING | WIDTH   |
|------|-------------|---|--------------|-------------|---------|
| 01   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. each side  | None         | None        | 4 7/8"  |
| 02   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" type "X" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs   | Yes          | None        | 5 3/8"  |
| 03   |             | 5/8" type "X" gyp. bd. on 3 5/8" 20 ga. g.l. metal studs at 16" o.c.  | None         | None        | 4 1/4"  |
| 04   |             | 6" 20 ga. g.l. metal studs at 16" o.c. with 1/2" resilient clip one side and 5/8" type "X" gyp. bd. both sides. Provide 3" sound attenuation blankets between studs   | Yes          | None        | 7 3/4"  |
| 05   |             | 5/8" type "X" gyp. bd. on 2 1/2" 20 ga. g.l. metal studs at 16" o.c.  | None         | None        | 3 1/8"  |
| 06   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. over 1/2" resilient clip one side and 5/8" ft plywood other side - On the plywood side of the wall, cover entire wall with mat black plastic laminate then install wood look aluminum batten system as detailed - At head and base of batten wall, provide matching 2" deep x 4" tall horizontal battens - Provide 3" sound attenuation blankets between studs | Yes          | None        | 4 7/16" |
| 07   |             | 3 5/8" 20 ga. g.l. metal studs at 16" o.c. with 5/8" type "X" gyp. bd. over 1/2" resilient clip one side - Provide 3" sound attenuation blankets between studs  | Yes          | None        | 4 3/4"  |

**IMPORTANT WALL TYPE NOTES**  
(COORDINATE AS REQUIRED)

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- CAREFULLY COORDINATE ALL WALL TYPES WITH THE BUILDING / WALL SECTIONS AS WELL AS ALL REFERENCED ENLARGED DETAILS FOR FURTHER AND MORE DETAILED INFORMATION
- NOTE THAT ALL PARTITIONS / WALLS IN ROOMS WHERE NO CEILINGS OCCUR, ARE TO BE RUN UP TO THE DECK / STRUCTURE ABOVE AND BE FULLY FINISHED WHERE WALL SURFACES ARE VISIBLE - ALSO NOTE THAT WALL TYPE SYMBOLS (ON PLAN) THAT HAVE AN ASTERISK "\*" NEAR THEM ARE WALLS THAT ARE REQUIRED TO HAVE THE WALL CONSTRUCTION RUN FULL HEIGHT, TO THE DECK ABOVE - COORDINATE AS REQUIRED.

**ADDITIONAL WALL TYPES NOTES:**

NOTE THAT WALLS THAT ARE NOT TAGGED ON THIS PLAN ARE EXISTING - WHERE EXISTING WALLS ARE BEING AFFECTED BY NEW WORK, EXISTING WALLS ARE TO BE MODIFIED, PATCHED, REPAIRED AND REFINISHED AS REQUIRED TO PERFORM NEW WORK AND AS TO PROVIDE A FLUSH, FINISHED FINAL APPEARANCE - WHERE EXISTING WALLS ABOUT NEW SOUND RATED WALL SYSTEMS, MODIFY EXISTING WALLS AS REQUIRED TO ACCOMPLISH THE CONTINUITY OF THE NEW SOUND RATED WALL SYSTEM - WHERE EXISTING WALLS ARE BEING MODIFIED / INFILLED DUE TO NEW DOORS / WINDOWS ETC. FIELD VERIFY EXISTING WALL CONDITIONS AND MATCH INFILLED / MODIFIED AREAS AS REQD. TO MATCH EXISTING WALL ELEMENTS - EXISTING INTERIOR WALLS ALONG GRIDS 4, 5 & 6 ARE TO BE MODIFIED / EXTENDED IN HEIGHT AS TO BE 6" HIGHER THAN THE NEW CEILING HEIGHTS - ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED AND COORDINATE WITH AS REQUIRED

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
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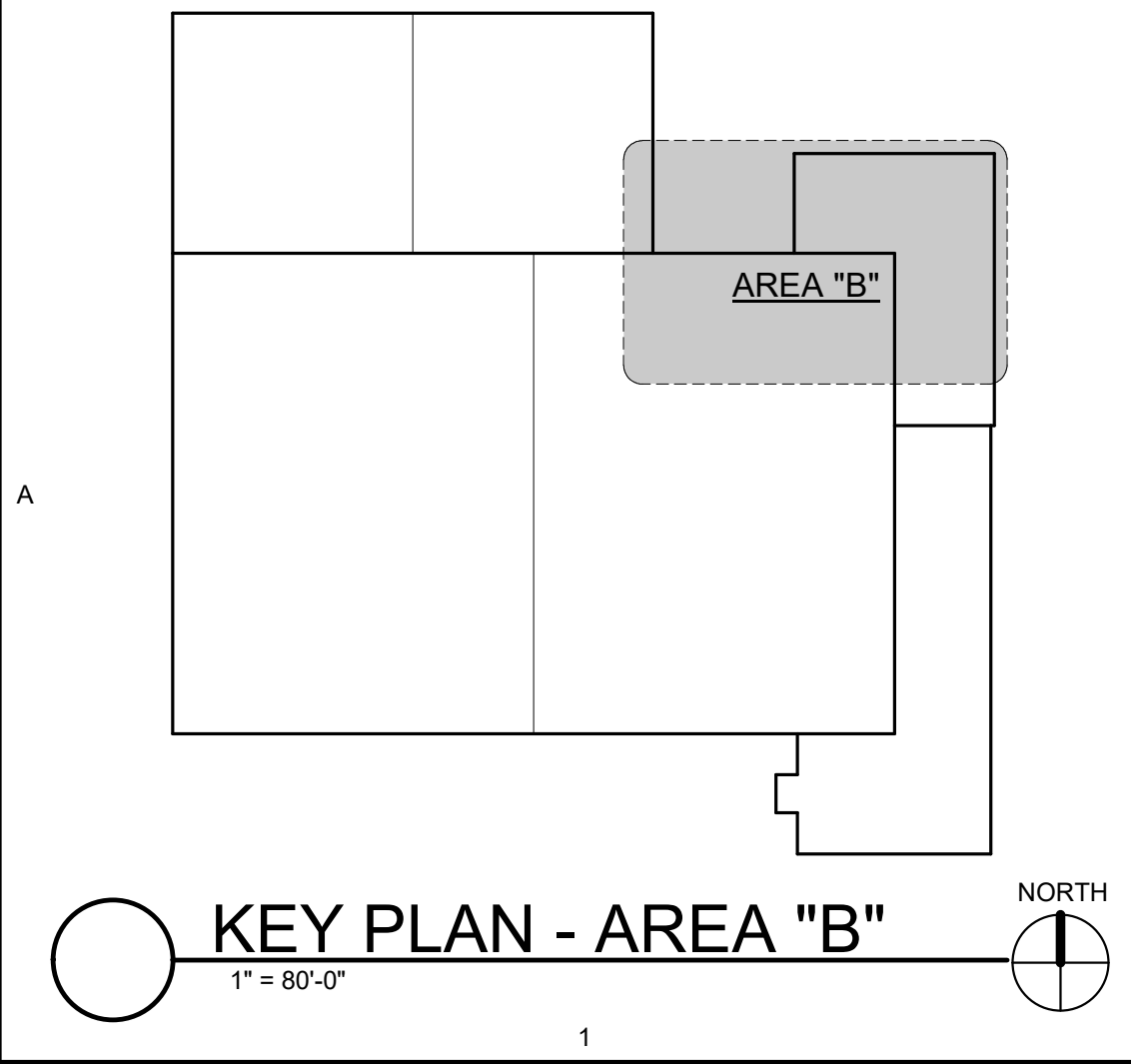
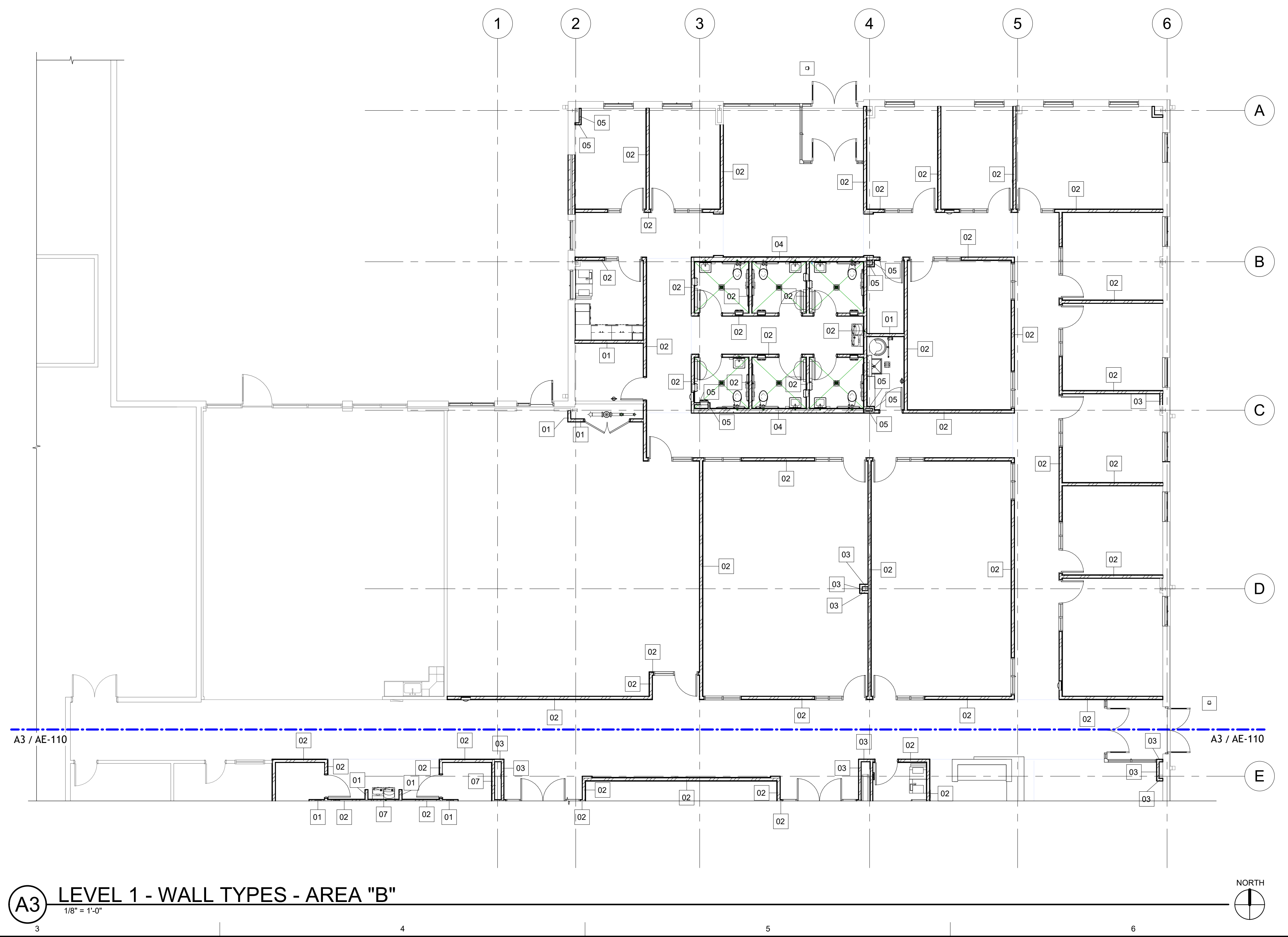
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| CHECKED BY:      | SPE                   |
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SHEET TITLE:  
**AREA "B" WALL TYPES**

SHEET NUMBER:  
**AE-111**



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**KEYED NOTES**

REFERENCE AE-112 & AE-113

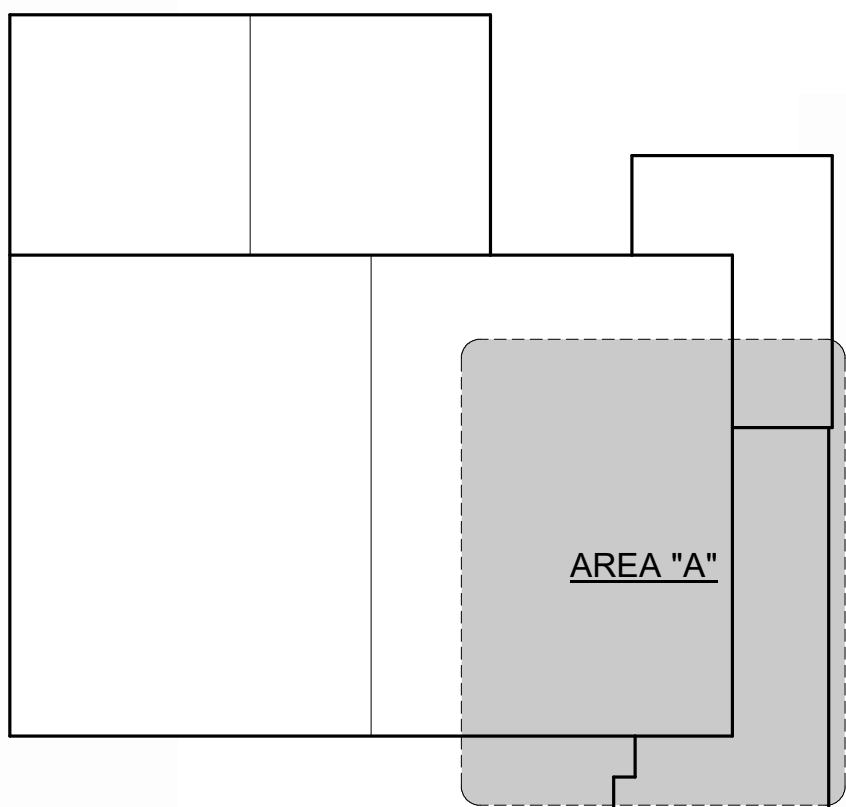
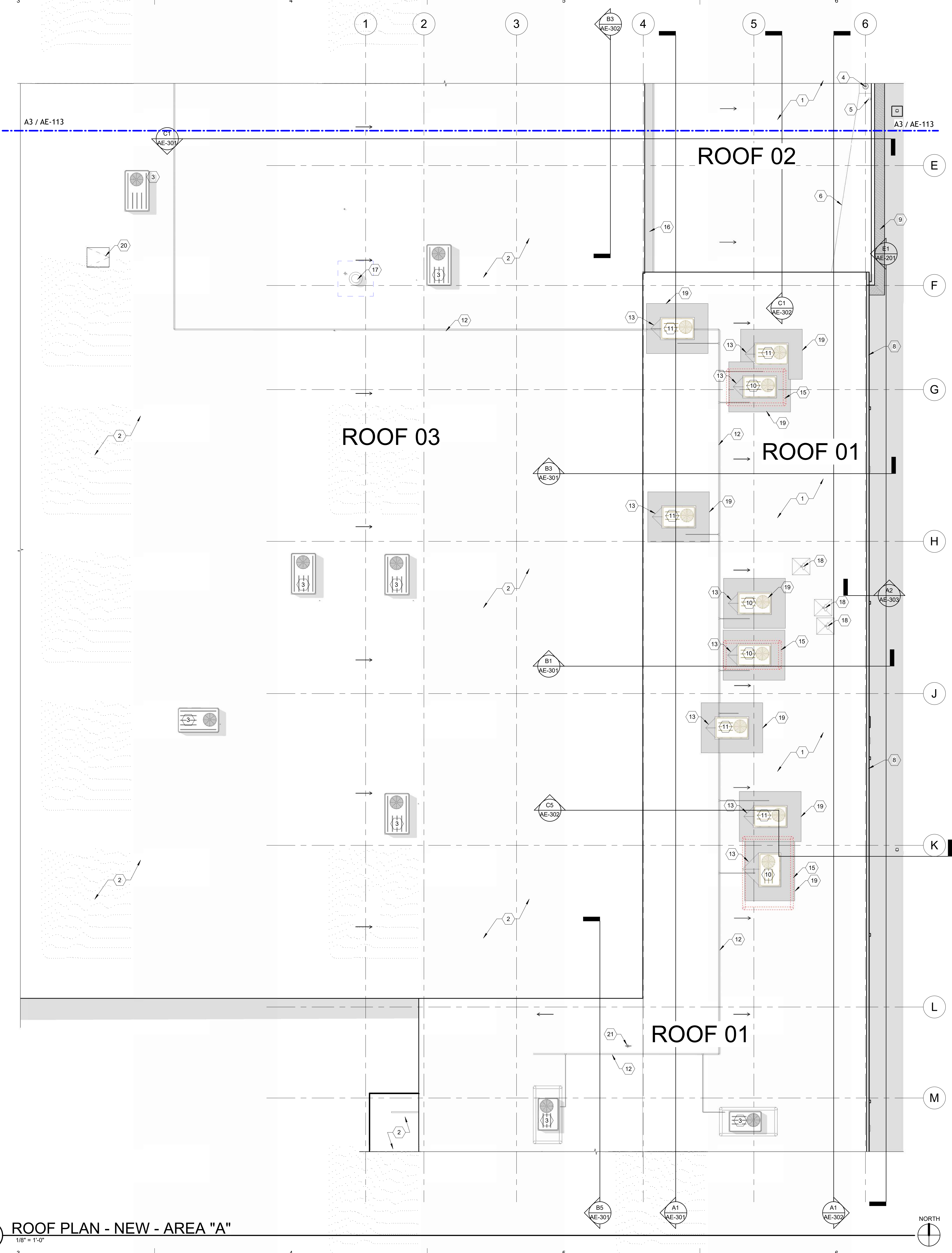
1. EXISTING ROOFING SYSTEM - PROTECT FROM DAMAGE - MODIFY / PATCH / REPAIR AS REQ'D. TO PERFORM NEW WORK - SEE "EXISTING ROOFING SYSTEM" NOTE ON THIS SHEET.
2. EXISTING ROOFING SYSTEM - UNLESS NOTE OTHERWISE, NO NEW WORK ON THIS AREA OF THE ROOF - NOT ALL EXISTING BUILDING COMPONENTS ARE SHOWN - NO STORAGE OF MATERIALS OR STAGING IS TO OCCUR ON THIS ROOF.
3. EXISTING ROOFTOP HVAC UNIT TO REMAIN - NO NEW WORK U.N.O.
4. EXISTING ROOF DRAIN TO REMAIN AND BE PROTECTED FROM DAMAGE - NO NEW WORK U.N.O.
5. EXISTING OVERFLOW DRAIN SCUPPER IN THIS APPROX. LOCATION - NO NEW WORK U.N.O.
6. EXISTING CRICKETS IN INSULATION TO DRAINS - NO NEW WORK U.N.O.
7. EXISTING ROOFTOP UNIT, CURB / SUPPORTS AND ALL RELATED COMPONENTS TO BE REMOVED - PATCH DECK AND ROOFING SYSTEM AS REQ'D. - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS.
8. EXISTING RAIN GUTTER TO REMAIN AND BE PROTECTED FROM DAMAGE - MODIFY AS REQ'D. WHERE EXISTING DOWNSPOUTS ARE SCHEDULED TO BE RELOCATED - ANY MODIFICATIONS ARE TO BE DONE AS TO BE WATER TIGHT AND CONSISTENT WITH EXISTING MATERIALS, COLORS ETC.
9. EXISTING PARAPET / MANSARD ROOF SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE - NO NEW WORK U.N.O.
10. EXISTING ROOFTOP HVAC UNIT TO BE REMOVED AND REPLACED WITH NEW - REMOVE EXISTING CURB / SUPPORTS AND ALL OTHER RELATED COMPONENTS - PROVIDE NEW RTU MANUFACTURERS, PREMANUFACTURED CURB - MODIFY EXISTING CONDITIONS AS REQUIRED TO PERFORM NEW WORK - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS - SEE A1/AE-507.
11. NEW ROOFTOP HVAC UNIT ON NEW RTU MANUFACTURERS, PREMANUFACTURED CURB - MODIFY EXISTING ROOFING SYSTEM AND DECKING AS REQUIRED TO PERFORM NEW WORK - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS - SEE A1/AE-507.
12. EXISTING GAS LINE ON EXISTING SUPPORTS TO REMAIN AND BE PROTECTED FROM DAMAGE - SEE PLUMBING DRAWINGS FOR MODIFICATIONS RELATED TO NEW HVAC WORK.
13. NEW 1/4" / FT. SLOPE, CRICKET AT HIGH POINT OF MECHANICAL UNIT - MODIFY ROOFING SYSTEM AS REQ'D.
14. EXISTING ROOF TO ROOF LADDER TO REMAIN AND BE PROTECTED FROM DAMAGE.
15. EXISTING RTU SUPPORT / STAND / PLATFORM (AS OCCURS) TO BE REMOVED - MODIFY, PATCH AND REPAIR EXTG. ROOFING SYSTEM AND OTHER AFFECTED BUILDING COMPONENTS AS REQ'D.
16. EXISTING TAPERED / SLOPED ROOFING SYSTEM / WALL BETWEEN THE HIGHER AND LOWER ROOFS TO REMAIN AND BE PROTECTED FROM DAMAGE.
17. CURB MOUNTED EXHAUST FAN - SEE MECHANICAL DRAWINGS - WHERE NEW CURB IS TO BE PROVIDED, COORD. WITH C4/AE-507.
18. EXISTING SKID MOUNTED ANTENNA SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE.
19. PROVIDE HEAT WELDED OR FULLY ADHERED WALK PAD AROUND HVAC EQUIPMENT AS SHOWN - PREP EXTG. MEMBRANE PER WALK PAD MANUFACTURERS WRITTEN INSTRUCTIONS.
20. EXISTING ROOF HATCH TO REMAIN - PROTECT FROM DAMAGE.
21. NEW ROOF TOP WATER HYDRANT - SEE C3/AE-507 AND PLUMBING DRAWINGS.

**EXISTING ROOFING SYSTEM:**

THE ACTUAL EXISTING ROOFING SYSTEM IS UNKNOWN - THE EXISTING ROOF SYSTEM IS A WHITE SINGLE PLY MEMBRANE (PVC / TPO) OVER AN UNKNOWN DEPTH OF RIGID INSULATION OVER AN UNKNOWN METAL DECK TYPE OVER PEMB "Z" PURLINS WITH FACED INSULATION BETWEEN THE PURLINS - METAL DECK IS ASSUMED TO BE STANDARD PEMB METAL ROOFING MATERIAL (NOT "B" DECK OR OTHER STANDARD DECK) - THE CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING ROOFING COMPONENTS AS REQ'D. TO PERFORM NEW WORK AND TO ENSURE COMPATIBILITY BETWEEN NEW AND EXISTING COMPONENTS.

**TYPICAL ROOF DETAILS:**

COORDINATE WITH AE-507 FOR TYPICAL ROOFING DETAILS THAT MAY NOT BE SPECIFICALLY CALLED OUT ON THIS PLAN - THIS INCLUDES PENETRATIONS THROUGH THE ROOF SUCH AS PIPES, CONDUITS, FLUES ETC. - COORDINATE AS REQ'D.  
NOTE THAT ALL NEW / REVISED ELECTRICAL LINES MUST BE RUN BENEATH THE DECK AS INDICATED IN THE DETAILS. ELECTRICAL LINES ABOVE THE ROOF WILL NOT BE ALLOWED.



**KEY PLAN - AREA "A"**  
1" = 80'-0"

**A3 ROOF PLAN - NEW - AREA "A"**  
1/8" = 1'-0"



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com



PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

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LOGAN, UTAH 84321

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| DRAWN BY:        | GTE                       |
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| SHEET TITLE:     | <b>AREA "A" ROOF PLAN</b> |
| SHEET NUMBER:    | <b>AE-112</b>             |

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**KEYED NOTES**

REFERENCE AE-112 & AE-113

1. EXISTING ROOFING SYSTEM - PROTECT FROM DAMAGE - MODIFY / PATCH / REPAIR AS REQ'D. TO PERFORM NEW WORK - SEE "EXISTING ROOFING SYSTEM" NOTE ON THIS SHEET.
2. EXISTING ROOFING SYSTEM - UNLESS NOTE OTHERWISE, NO NEW WORK ON THIS AREA OF THE ROOF - NOT ALL EXISTING BUILDING COMPONENTS ARE SHOWN - NO STORAGE OF MATERIALS OR STAGING IS TO OCCUR ON THIS ROOF.
3. EXISTING ROOFTOP HVAC UNIT TO REMAIN - NO NEW WORK U.N.O.
4. EXISTING ROOF DRAIN TO REMAIN AND BE PROTECTED FROM DAMAGE - NO NEW WORK U.N.O.
5. EXISTING OVERFLOW DRAIN SCUPPER IN THIS APPROX. LOCATION - NO NEW WORK U.N.O.
6. EXISTING CRICKETS IN INSULATION TO DRAINS - NO NEW WORK U.N.O.
7. EXISTING ROOFTOP UNIT, CURB / SUPPORTS AND ALL RELATED COMPONENTS TO BE REMOVED - PATCH DECK AND ROOFING SYSTEM AS REQ'D. - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS.
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11. NEW ROOFTOP HVAC UNIT ON NEW RTU MANUFACTURERS, PREMANUFACTURED CURB - MODIFY EXISTING ROOFING SYSTEM AND DECKING AS REQUIRED TO PERFORM NEW WORK - COORDINATE WITH MEP AND STRUCTURAL DRAWINGS - SEE A1/AE-507.
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15. EXISTING RTU SUPPORT / STAND / PLATFORM (AS OCCURS) TO BE REMOVED - MODIFY, PATCH AND REPAIR EXT'G. ROOFING SYSTEM AND OTHER AFFECTED BUILDING COMPONENTS AS REQ'D.
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17. CURB MOUNTED EXHAUST FAN - SEE MECHANICAL DRAWINGS - WHERE NEW CURB IS TO BE PROVIDED, COORD. WITH C4/AE-507.
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19. PROVIDE HEAT WELDED OR FULLY ADHERED WALK PAD AROUND HVAC EQUIPMENT AS SHOWN - PREP EXT'G. MEMBRANE PER WALK PAD MANUFACTURERS WRITTEN INSTRUCTIONS.
20. EXISTING ROOF HATCH TO REMAIN - PROTECT FROM DAMAGE.
21. NEW ROOF TOP WATER HYDRANT - SEE C3/AE-507 AND PLUMBING DRAWINGS.

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ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1360  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP



RYAN  
NO. 118114  
02-05-2024  
PROFESSIONAL ENGINEER

CODE OFFICIAL STAMP



REVIEWED FOR  
CODE COMPLIANCE  
03/26/2024  
MAYOR OF KAYSVILLE  
CONSTRUCTION AND  
MANAGEMENT

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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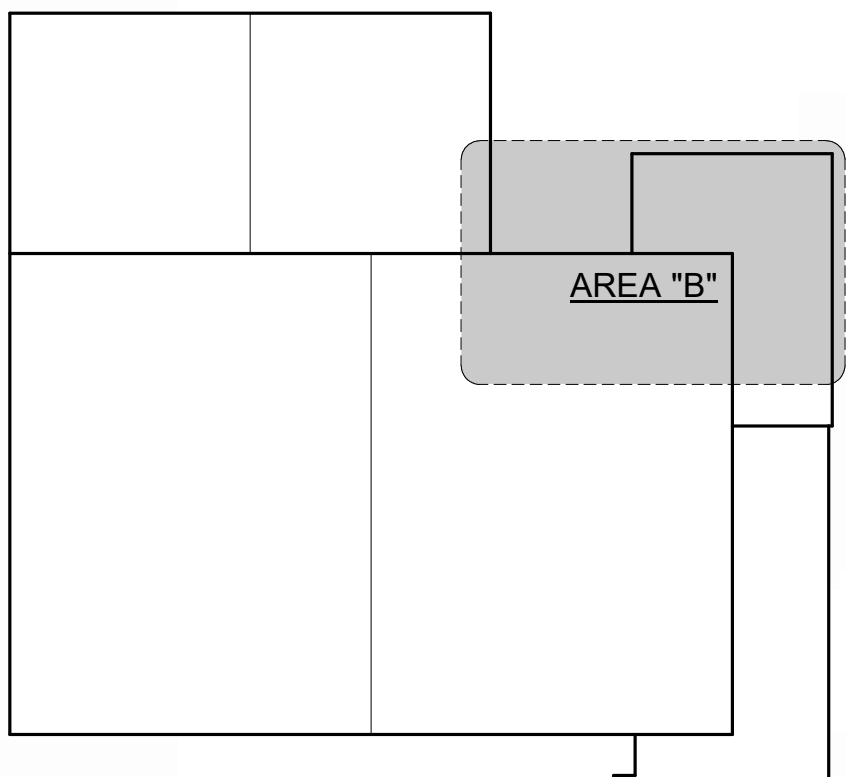
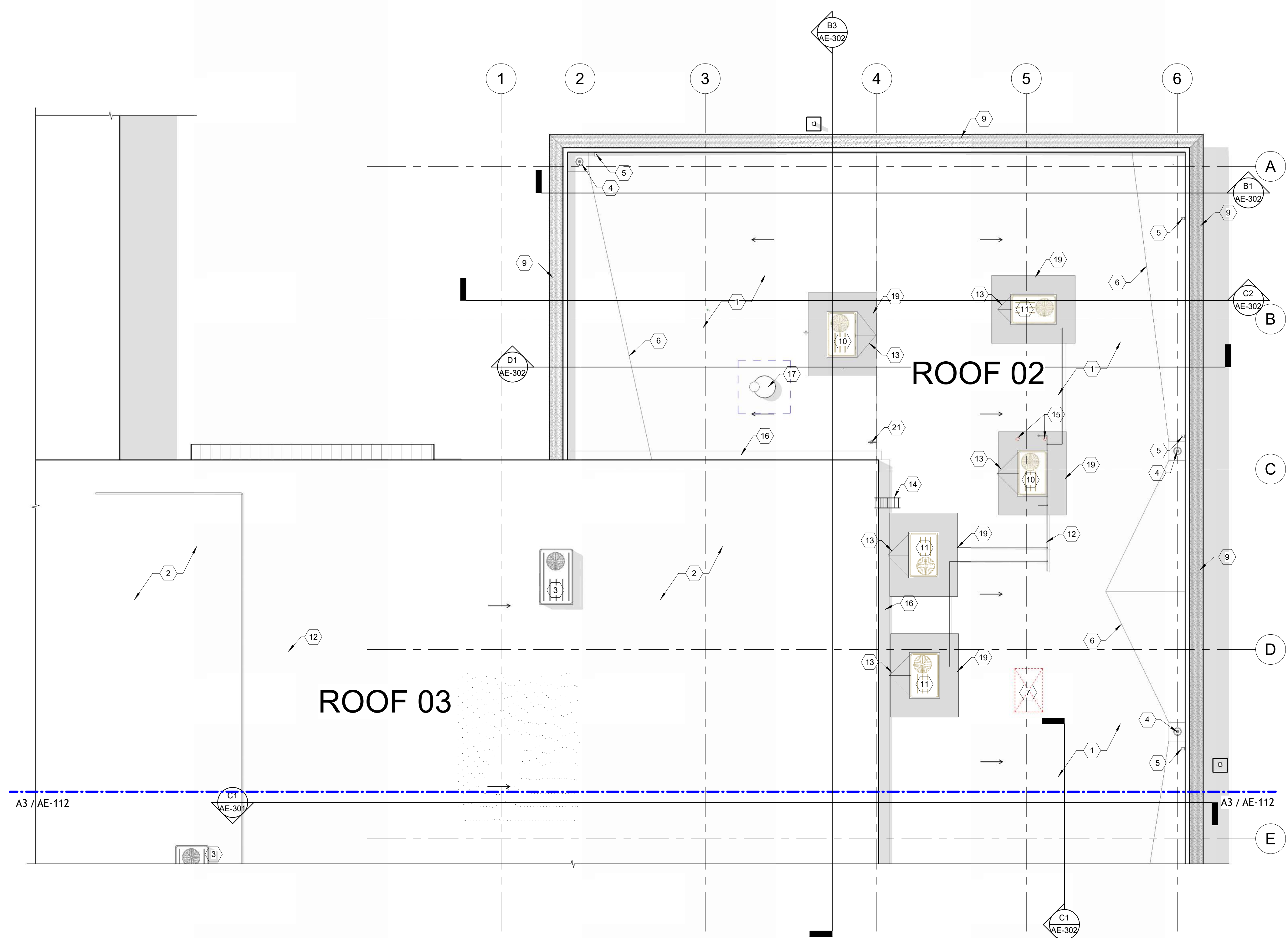
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**AREA "B" ROOF PLAN**

SHEET NUMBER: **AE-113**

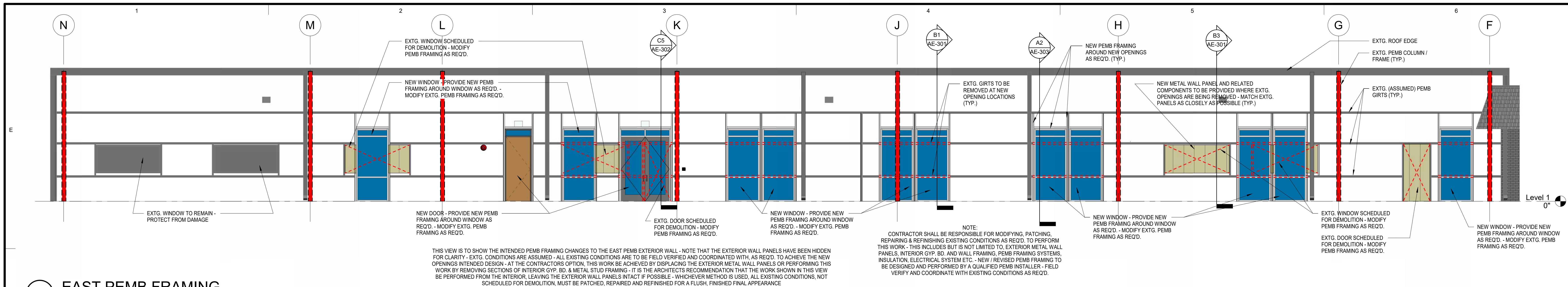


**KEY PLAN - AREA "B"**  
1" = 80'-0"

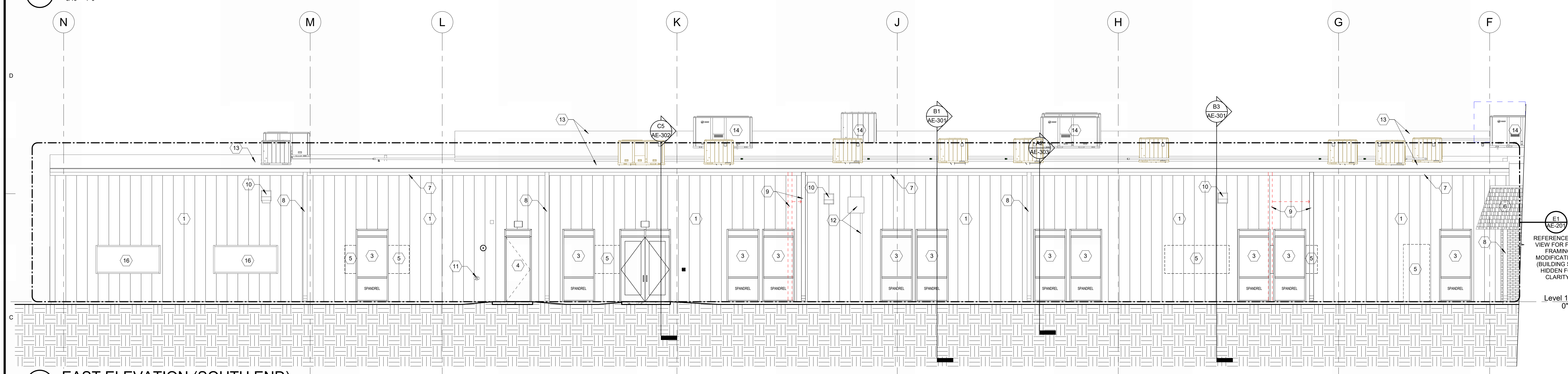
**A3 ROOF PLAN - NEW - AREA "B"**  
1/8" = 1'-0"

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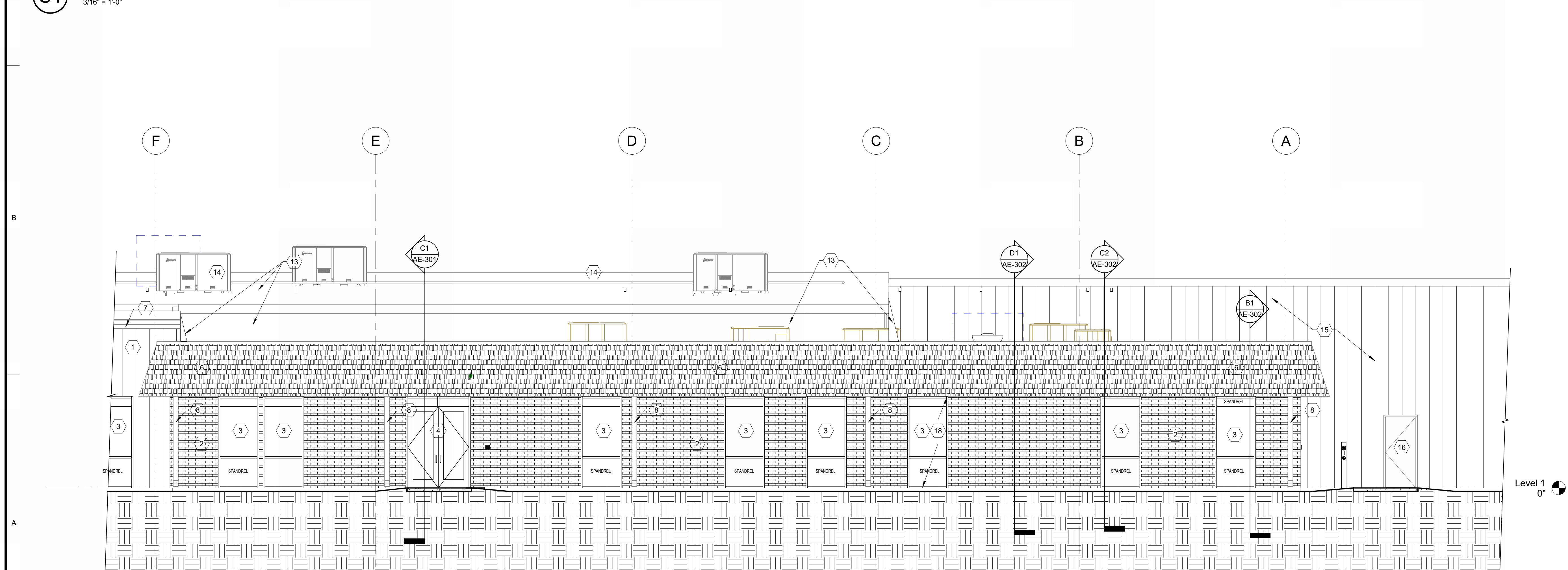




**E1 EAST PEMB FRAMING**  
3/16" = 1'-0"



**C1 EAST ELEVATION (SOUTH END)**  
3/16" = 1'-0"



**A1 EAST ELEVATION (NORTH END)**  
3/16" = 1'-0"

**KEYED NOTES** REFERENCE AE-201 & AE-202

- EXISTING PEMB WALL PANEL SYSTEM - DISASSEMBLE / REASSEMBLE WALL PANELS AS WELL AS ANY OTHER AFFECTED BUILDING COMPONENTS / SYSTEMS AS REQUIRED TO PERFORM NEW WORK - SALVAGE EXISTING METAL WALL PANEL SECTIONS SCHEDULED FOR DEMOLITION, AS REQ'D. FOR PATCHING OF DEMOLISHED DOOR / WINDOW OPENINGS - REATTACHMENT OF WALL PANELS SHALL BE DONE USING NEW, ONE SIZE LARGER THAN ORIGINAL, COLORED, GASKETED FASTENERS - PANELS AND PATCHES MUST BE INSTALLED IN A MANNER AS TO THOROUGHLY SEAL & WEATHERPROOF AND AS TO BE AS AESTHETICALLY PLEASING AS POSSIBLE - FIELD VERIFY ALL EXISTING CONDITIONS RELATED TO THIS WORK AND COORDINATE AS REQUIRED
- EXISTING BRICK VENEER - PROTECT FROM DAMAGE.
- WINDOW - SEE WINDOW SCHEDULE
- DOOR - SEE DOOR SCHEDULE
- WHERE EXISTING DOOR / WINDOW OPENING IS SCHEDULED FOR DEMOLITION, PATCH EXISTING PEMB METAL WALL PANEL WITH METAL WALL PANEL MATERIAL SALVAGED FROM THE DEMOLITION PROCESS
- EXISTING WOOD SHAKE MANSARD ROOF TO REMAIN
- EXISTING RAIN GUTTER SYSTEM TO REMAIN - MODIFY / PATCH / REPAIR AS REQ'D. WHERE DOWNSPOUT LOCATIONS SHIFT
- EXISTING DOWNSPOUT TO REMAIN - PROTECT FROM DAMAGE.
- EXISTING DOWNSPOUT TO BE REMOVED AND REINSTALLED (OR REPLACED WITH MATCHING) IN NEW LOCATION
- EXISTING WALL PACK LIGHTING TO REMAIN
- EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN
- EXISTING ELECTRICAL BOX / CONDUIT TO REMAIN
- EXISTING SINGLE PLY MEMBRANE ROOFING SYSTEM TO REMAIN AND BE PROTECTED FROM DAMAGE
- ROOFTOP MECHANICAL UNIT - SEE MECHANICAL DRAWINGS AND ROOF PLAN
- EXISTING PEMB BUILDING BEYOND - NO NEW WORK
- EXISTING WINDOW / DOOR SYSTEM TO REMAIN - NO NEW WORK
- USE SALVAGED BRICK FROM THE DEMOLITION PROCESS IN OTHER AREAS TO PATCH BRICK WALL WHERE EXISTING STOREFRONT DOOR SYSTEM IS SCHEDULED FOR DEMOLITION - CLEAN AND PREP EXISTING BRICKS FOR REINSTALLATION - TOOTH IN EDGES - IF THERE IS NOT ENOUGH SALVAGED BRICK TO FULLY PATCH THIS WALL, CONTRACTOR IS TO PROVIDE NEW MATCHING BRICK AS REQ'D. TO COMPLETE INFILL
- NEW WINDOW LOCATION - SAWCUT / REMOVE EXISTING WALL SYSTEM AS REQ'D. FOR INSTALLATION OF NEW WINDOW SYSTEM - TOOTH IN JAMB BRICKS AS REQ'D. FOR FLUSH FINISHED APPEARANCE - SALVAGE AND CLEAN EXTG. BRICKS FOR REUSE IN AREAS SCHEDULED FOR BRICK INFILL / TOOTHING - FIELD VERIFY ALL AFFECTED BUILDING SYSTEMS AND COORDINATE AS REQUIRED

**LANDSCAPING NOT SHOWN**  
NOTE THAT FOR CLARITY REASONS, EXISTING LANDSCAPING ELEMENTS SUCH AS TREES, SHRUBS ETC. ARE NOT SHOWN IN THIS VIEW - UNLESS NOTED OTHERWISE, ALL SUCH ELEMENTS ARE TO REMAIN AND BE PROTECTED FROM DAMAGE - FOR FULL UNDERSTANDING OF EXISTING TREES / SHRUBS ETC. REFERENCE THE "BRIDGERLAND 3D SCAN LINK" FOUND ON AD-101 / AD-102

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
T 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP  
STATE OF UTAH  
No. 11814  
02/05/2024

CODE OFFICIAL STAMP  
REVIEWED FOR CODE COMPLIANCE  
03/06/2024  
BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**  
940 WEST 1400 NORTH  
LOGAN, UTAH 84321

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

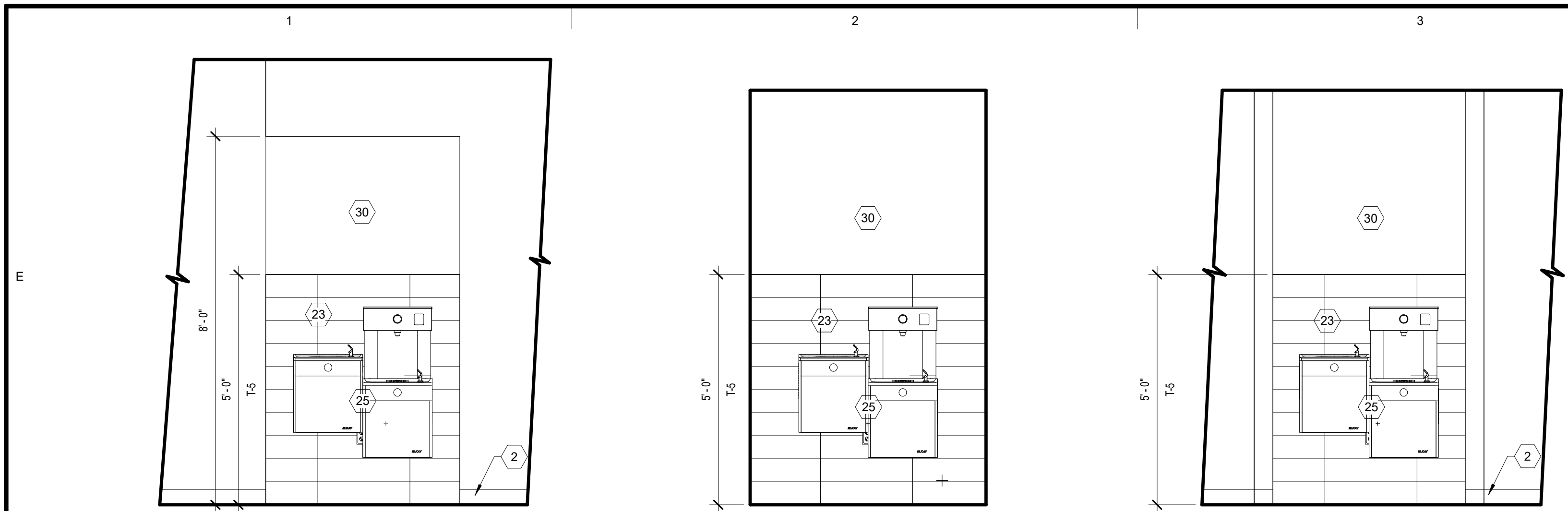
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| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | GTE                   |
| CHECKED BY:      | SPE                   |
| DESIGNED BY:     | SPE                   |
| COPYRIGHT:       | © 2024 SPE ARCHITECTS |

SHEET TITLE:  
**EXTERIOR ELEVATIONS**  
SHEET NUMBER:  
**AE-201**





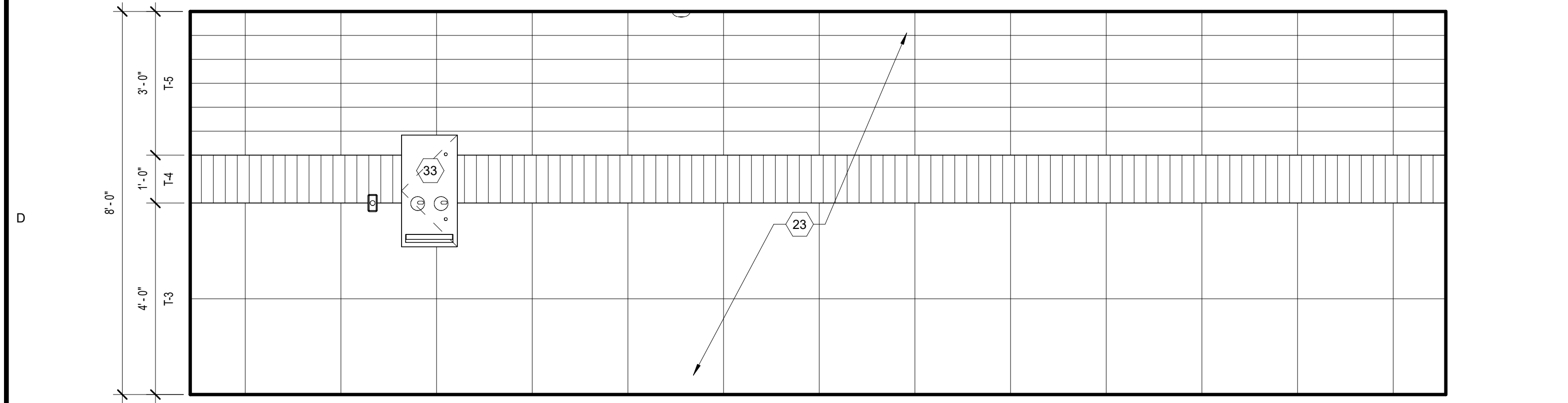




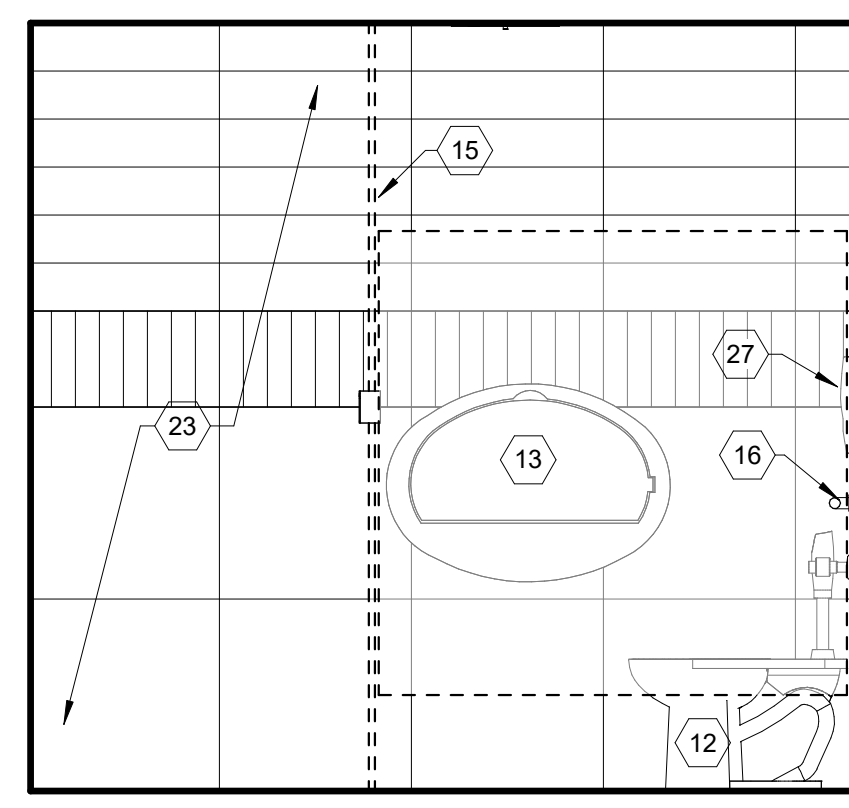
**E1** CORRIDOR 125 - W  
1/2" = 1'-0"

**E2** HALL 164 - E  
1/2" = 1'-0"

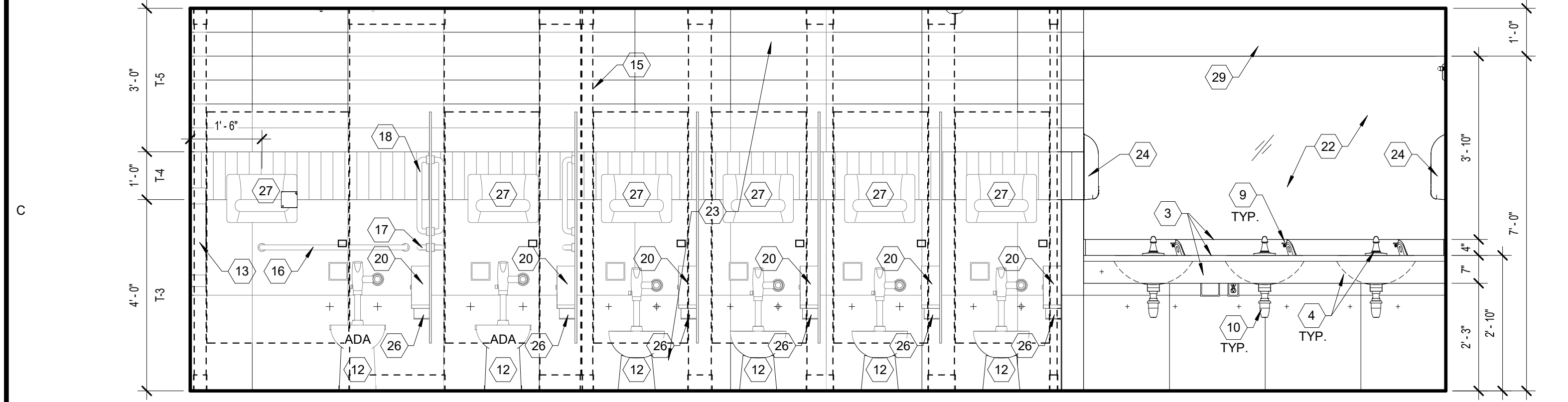
**E3** ALCOVE 106 - S  
1/2" = 1'-0"



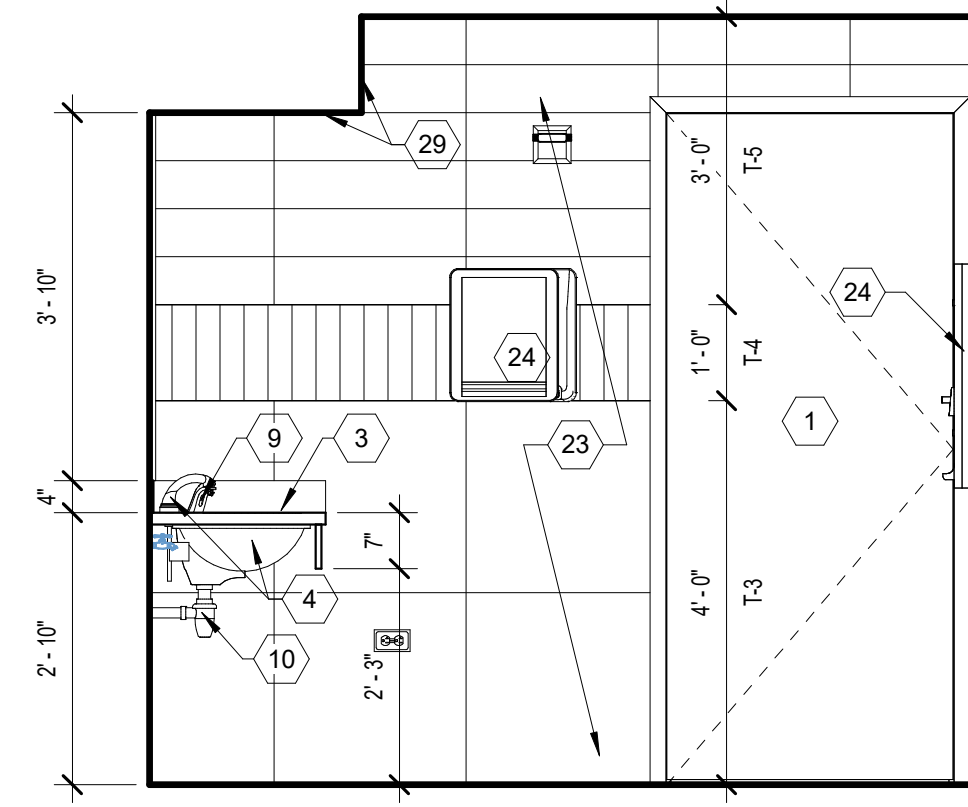
**D1** WOMEN 128 - S  
1/2" = 1'-0"



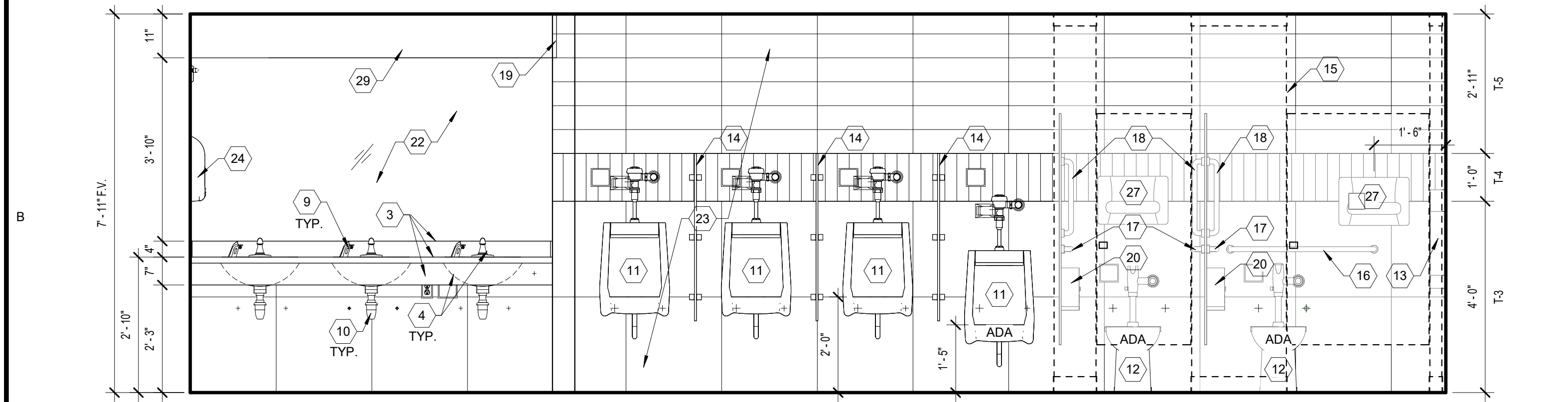
**D4** WOMEN 128 - W  
1/2" = 1'-0"



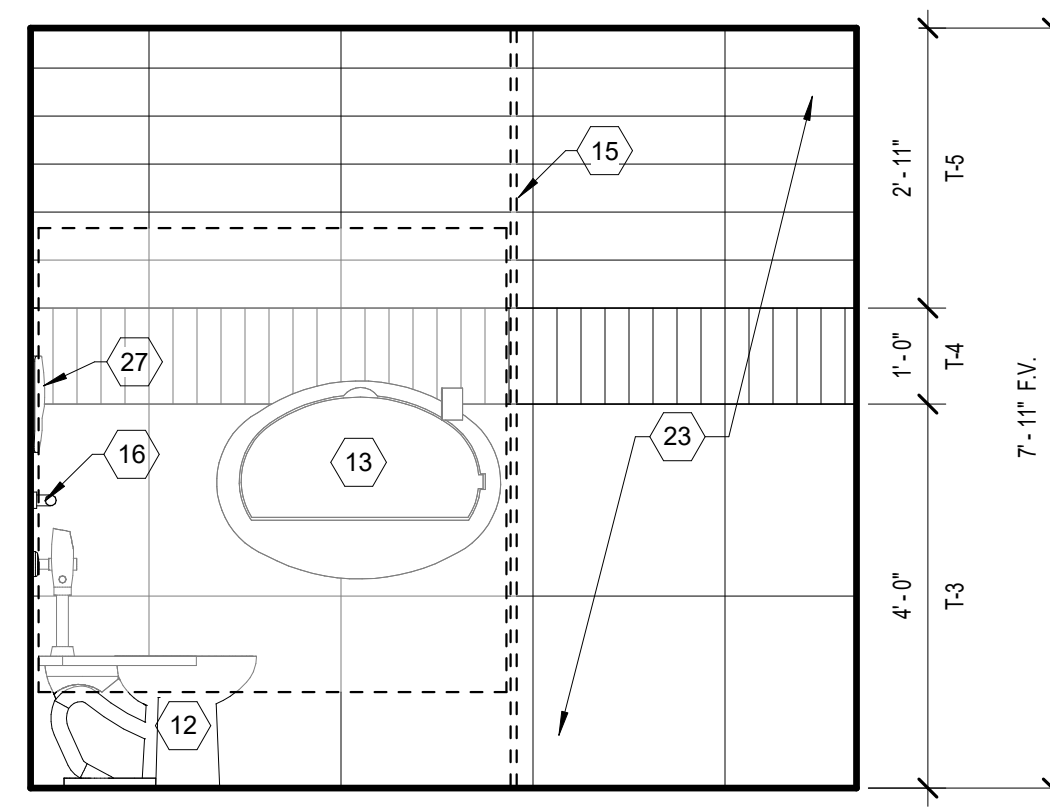
**C1** WOMEN 128 - N  
1/2" = 1'-0"



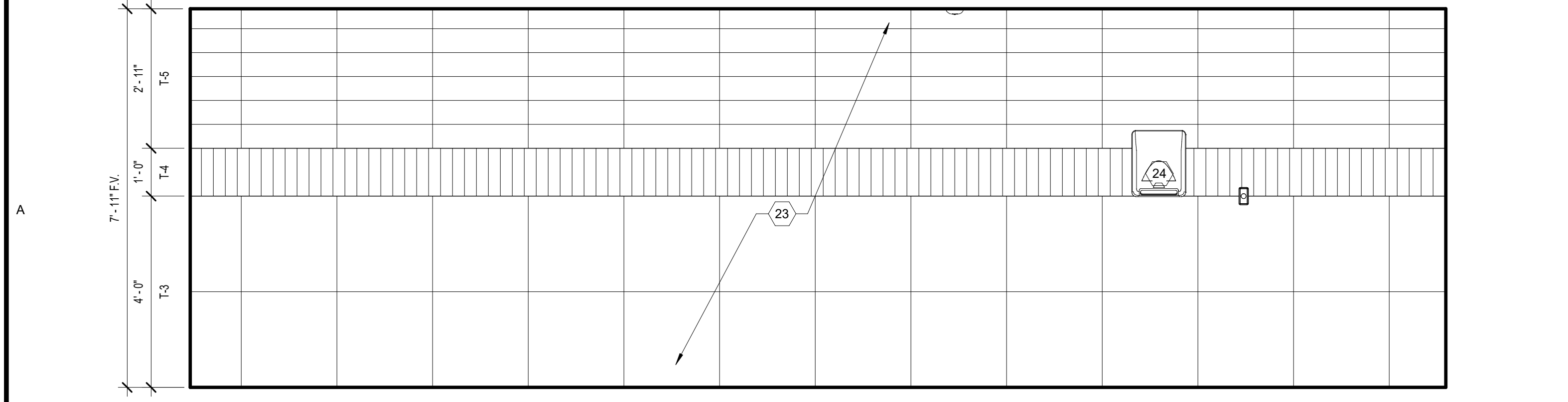
**C4** WOMEN 128 - E  
1/2" = 1'-0"



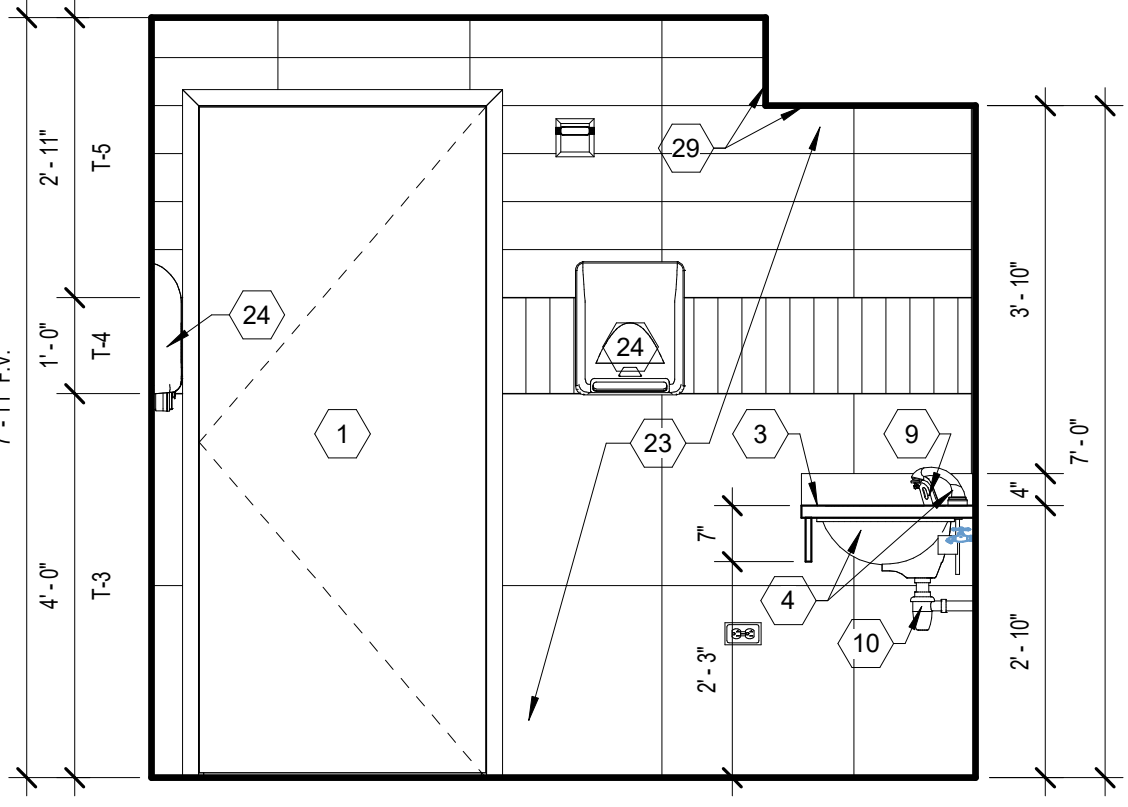
**B1** MEN 127 - S  
1/2" = 1'-0"



**B4** MEN 127 - W  
1/2" = 1'-0"



**A1** MEN 127 - N  
1/2" = 1'-0"



**A4** MEN 127 - E  
1/2" = 1'-0"

**KEYED NOTES**

1. DOOR / OPENING / ENTRY SYSTEM - SEE DOOR SCHEDULE.
2. WALL BASE - SEE FINISH SCHEDULE.
3. 22" DEEP, 1 1/8" THICK QUARTZ COUNTERTOP WITH 4" BACK SPLASH - PROVIDE SKIRT BELOW THE FRONT EDGE OF THE COUNTERTOP THAT IS 27" ABOVE THE FINISHED FLOOR - EDGES ARE TO BE 1-1/2" SQUARE WITH EASED CORNERS (TYP.) - PROVIDE HEAVY DUTY, FULLY CONCEALED (BEHIND TILE) SUPPORT BRACES WHERE REQUIRED.
4. UNDER COUNTER MOUNTED SINK AND FAUCET - SEE PLUMBING DRAWINGS.
5. ADA ACCESSIBLE LAVATORY - SEE PLUMBING DRAWINGS.
6. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
7. WALL MOUNTED LIQUID SOAP DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #01)
8. STAINLESS STEEL MOP RACK / SHELF UNIT - SEE SPEC. (TBA #02).
9. HANDS FREE, SENSOR ACTIVATED SOAP DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - (TBA #13).
10. UNDER LAVATORY GUARDS - SEE PLUMBING DRAWINGS.
11. URINAL - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
12. TOILET - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
13. BABY CHANGING STATION - INSTALL AT 34" MAX ABOVE FINISHED FLOOR TO THE CHANGING TABLE SURFACE AND AT 27" MIN FROM FINISHED FLOOR TO THE UNDERSIDE (KNEE SPACE) OF THE CHANGING TABLE IN THE OPEN POSITION - SEE SPEC (TBA #3).
14. 24" DEEP, SOLID PHENOLIC CORE, URINAL SCREEN - SEE SPEC.
15. SOLID PHENOLIC CORE, FLOOR TO CEILING BRACED, TOILET STALL / PARTITION - SEE SPEC. (NOTE THAT STALLS IN SOME OF THE ELEVATIONS VIEWS ARE SHOWN HIDDEN FOR VISIBILITY OF ITEMS BEHIND STALL).
16. 36" GRAB BAR - INSTALL AT 36" FROM FINISHED FLOOR TO TOP OF THE BAR AND LOCATE OVER THE TOILET SO THAT THERE IS 24" OF BAR ON THE TRANSFER SIDE OF TOILET AND 12" ON THE NON TRANSFER SIDE. SEE SPEC. (TBA #04).
17. 42" GRAB BAR - INSTALL AT 36" FROM FINISHED FLOOR TO TOP OF THE BAR AND A MAX. OF 12" OFF OF THE BACK WALL. SEE SPEC. (TBA #05).
18. 18" VERTICALLY MOUNTED GRAB BAR - INSTALL VERTICALLY AT 40" FROM FINISHED FLOOR TO THE UNDERSIDE (HORIZONTAL) SURFACE OF THE BAR AND HORIZONTALLY 40" FROM THE BACK WALL TO THE CENTER OF THE BAR - SEE SPEC. (TBA #06).
19. NOTE THAT THE GYP. BD. HEADER / SOFFIT IS TO BE HELD BACK 2" FROM THE END OF THE WING WALLS AT EACH END OF THE COUNTER AREA - THIS IS TO ALLOW THE TILE ON THE WING WALLS TO WRAP THE END OF THE WING WALL AND RETURN BACK TO THE GYP. BD.
20. TOILET PAPER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #07)
21. 18" x 36" STAINLESS STEEL FRAMED MIRROR WITH STAINLESS STEEL SHELF - MOUNT AT 40" FROM FINISH FLOOR TO LOWEST EDGE OF THE REFLECTIVE SURFACE - SEE SPEC. (TBA #08).
22. 46" TALL x FULL WIDTH OF COUNTER, FRAMELESS MIRROR WITH POLISHED EDGES - INSTALL WITH CONCEALED MOUNTING HARDWARE (TBA #09).
23. THIN SET WALL TILE - INSTALL TO HAVE EVEN SIZED TILES AT EDGES OF THE FIELD OF AT LEAST 1/2 SIZE TILES OR LARGER - SEE "T" ON ELEVATIONS FOR TILE TYPE (TYPES SCHEDULED IN SPEC.) - TYPICAL AT ALL CHANGES IN WALL TILE TYPE AND AT ALL OUTSIDE CORNERS. PROVIDE BLACK, ALUMINUM, TILE TRANSITION STRIP - COORDINATE WITH SPEC.
24. SEMI-RECESSED, BATTERY POWERED PAPER TOWEL DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - NO PART OF THE UNIT IS TO PROTRUDE MORE THAN 4" OFF OF THE FACE OF THE WALL - INSTALL AS TO HAVE THE HIGHEST OPERABLE PART OF THE DISPENSER NO MORE THAN 48" AFF. (TBA #10).
25. HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS - NOTE THAT THE BOTTLE FILLER MUST ALSO BE INSTALLED AS TO BE ADA ACCESSIBLE.
26. SANITARY NAPKIN DISPOSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #11).
27. TOILET SEAT PAPER COVER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - INSTALL AT 48" AFF TO HIGHEST OPERABLE COMPONENT - SEE SPEC. (TBA #12).
28. HEAVY DUTY WALL STANDARDS AND BRACKETS (ADJUSTABLE) WITH 12" DEEP x 1" THICK x FULL WIDTH PLASTIC LAMINATE SHELVES.
29. PAINTED GYP. BD. HEADER ABOVE COUNTER
30. PAINTED GYP. BD. WALL ABOVE TILE
31. JANITORS / MOP SINK AND FAUCET - SEE PLUMBING DRAWINGS.
32. SPACE FOR WATER HEATER - SEE PLUMBING DRAWINGS.
33. SEMI RECESSED NAPKIN / TAMPON VENDOR TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #14).

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER BACKING IN WALLS FOR ALL WALL MOUNTED ITEMS, WHETHER THE ITEM IS TO BE PROVIDED AND INSTALLED UNDER CONTRACT OR IF PROVIDED AND INSTALLED BY THE OWNER - COORDINATE ALL SUCH BACKING REQUIREMENTS WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AS WELL AS WITH THE OWNER / VENDOR.

ALL TOILET ACCESSORIES, DRINKING FOUNTAINS, "ACCESSIBLE" FIXTURES ETC. MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF "ansi a117.1, 2017" - COORDINATE WITH "ansi a117.1, 2017" AND WITH G1-007 - ANY DISCREPANCIES BETWEEN THESE DOCUMENTS, OR IF INSTALLATION REQUIREMENTS ARE UNCLEAR, THE CONTRACTOR IS REQUIRED TO CONSULT WITH THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF ITEMS IN QUESTION

NOTE THAT THE "TBA #s" LISTED IN THE KEYED NOTES ABOVE, REFERENCE TOILET & BATH ACCESSORIES THAT ARE SCHEDULED IN THE SPECIFICATIONS - COORDINATE WITH THE SPECIFICATIONS AS REQ'D.

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

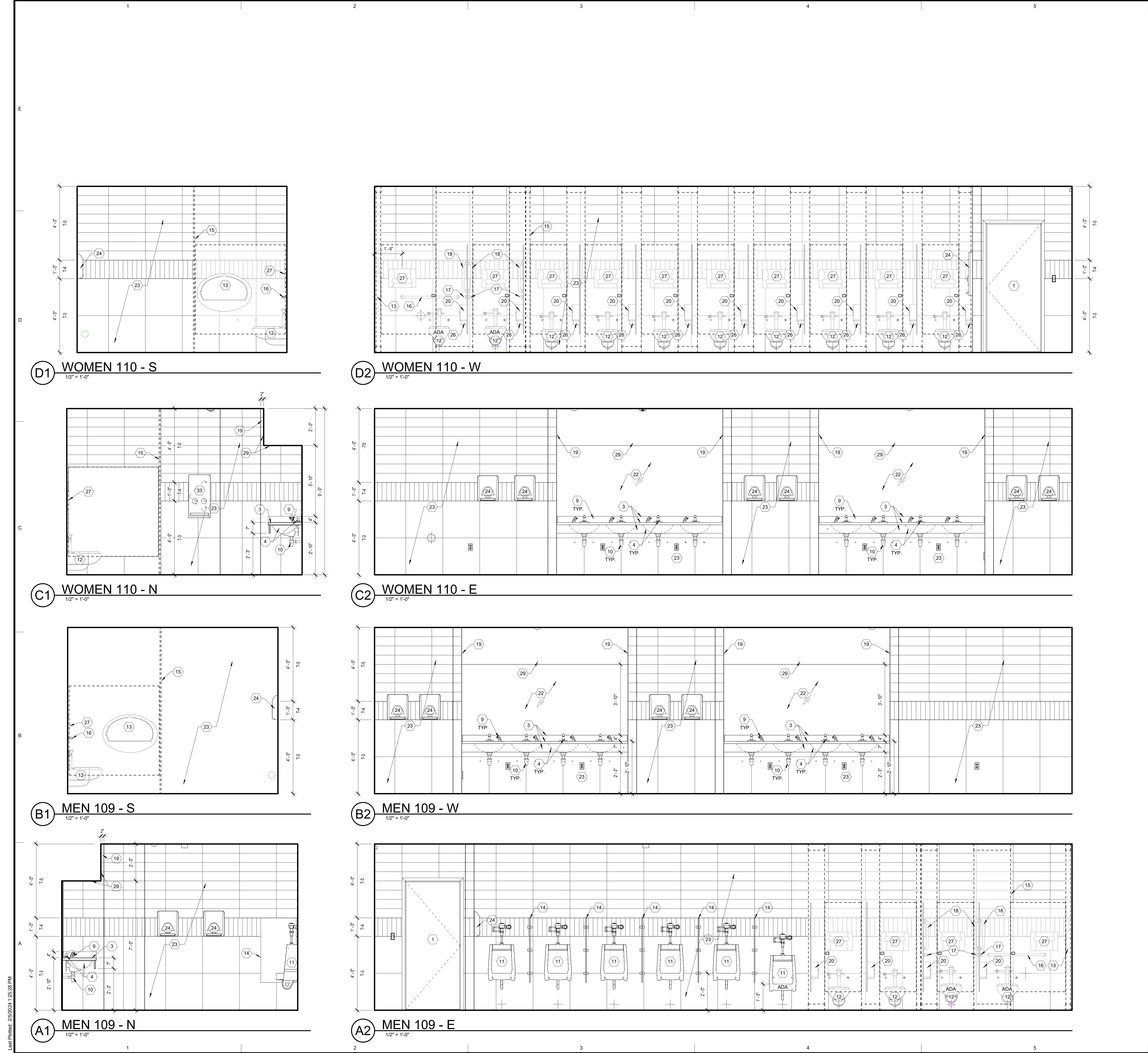
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|         | 01  | 02/05/24 | PERMIT SET  |

|                  |                       |
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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | GTE                   |
| CHECKED BY:      | SPE                   |
| DESIGNED BY:     | SPE                   |
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SHEET TITLE:  
**INTERIOR ELEVATIONS**

SHEET NUMBER:  
**AE-203**





- ### KEYED NOTES
- REFERENCE AE-203, AE-204 & AE-205
- DOOR / OPENING / ENTRY SYSTEM - SEE DOOR SCHEDULE.
  - WALL BASE - SEE FINISH SCHEDULE.
  - 22" DEEP, 1 1/8" THICK QUARTZ COUNTERTOP WITH 4" BACK SPLASH - PROVIDE SKIRT BELOW THE FRONT EDGE OF THE COUNTERTOP THAT IS 27" ABOVE THE FINISHED FLOOR - EDGES ARE TO BE 1-1/2" SQUARE WITH EASED CORNERS TYP. - PROVIDE HEAVY DUTY, FULLY CONCEALED (BEHIND TILE) SUPPORT BRACES WHERE REQUIRED.
  - UNDER COUNTER MOUNTED SINK AND FAUCET - SEE PLUMBING DRAWINGS.
  - ADA ACCESSIBLE LAVATORY - SEE PLUMBING DRAWINGS.
  - LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
  - WALL MOUNTED LIQUID SOAP DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #01)
  - STAINLESS STEEL MOP RACK / SHELF UNIT - SEE SPEC. (TBA #02)
  - HANDS FREE, SENSOR ACTIVATED SOAP DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - (TBA #13)
  - UNDER LAVATORY GUARDS - SEE PLUMBING DRAWINGS.
  - URINAL - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
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  - 24" DEEP, SOLID PHENOLIC CORE, URINAL SCREEN - SEE SPEC.
  - SOLID PHENOLIC CORE, FLOOR TO CEILING BRACED, TOILET STALL / PARTITION - SEE SPEC. (NOTE THAT STALLS IN SOME OF THE ELEVATIONS VIEWS ARE SHOWN HIDDEN FOR VISIBILITY OF ITEMS BEHIND STALL)
  - 36" GRAB BAR - INSTALL AT 36" FROM FINISHED FLOOR TO TOP OF THE BAR AND LOCATE OVER THE TOILET SO THAT THERE IS 24" OF BAR ON THE TRANSFER SIDE OF TOILET AND 12" ON THE NON TRANSFER SIDE. SEE SPEC. (TBA #04)
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NOTE THAT THE "TBA #s" LISTED IN THE KEYED NOTES ABOVE, REFERENCE TOILET & BATH ACCESSORIES THAT ARE SCHEDULED IN THE SPECIFICATIONS - COORDINATE WITH THE SPECIFICATIONS AS REQ'D.

ARCHITECTS INFORMATION

SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1369  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

REVISIONS

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

ISSUED:

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: GTE  
CHECKED BY: SPE  
DESIGNED BY: SPE  
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SHEET TITLE:  
INTERIOR ELEVATIONS  
SHEET NUMBER:  
AE-204

Last Plot: 2/5/2024 1:25:28 PM

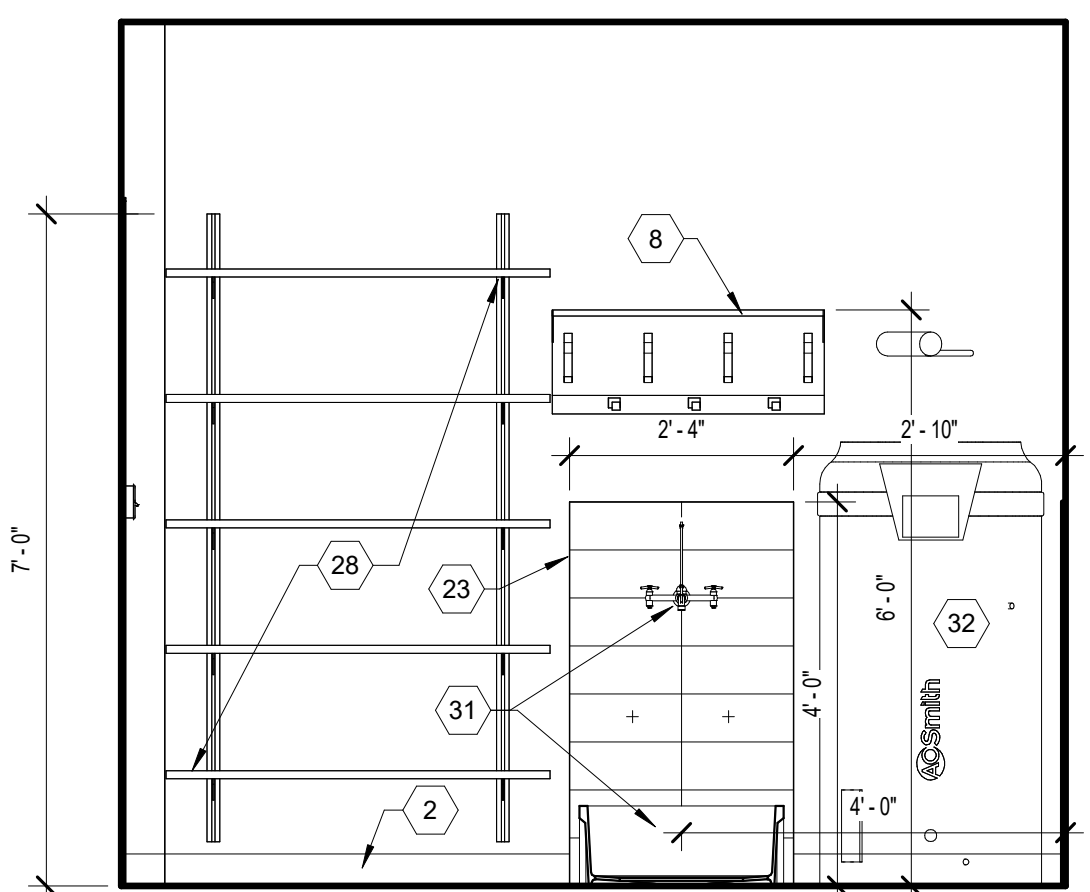


- KEYED NOTES** REFERENCE AE-203, AE-204 & AE-205
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  - WALL BASE - SEE FINISH SCHEDULE.
  - 22" DEEP, 1 1/8" THICK QUARTZ COUNTERTOP WITH 4" BACK SPLASH - PROVIDE SKIRT BELOW THE FRONT EDGE OF THE COUNTERTOP THAT IS 27" ABOVE THE FINISHED FLOOR - EDGES ARE TO BE 1-1/2" SQUARE WITH EASED CORNERS (TYP.) - PROVIDE HEAVY DUTY, FULLY CONCEALED (BEHIND TILE) SUPPORT BRACES WHERE REQUIRED.
  - UNDER COUNTER MOUNTED SINK AND FAUCET - SEE PLUMBING DRAWINGS.
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  - UNDER LAVATORY GUARDS - SEE PLUMBING DRAWINGS.
  - URNAL - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
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  - 24" DEEP, SOLID PHENOLIC CORE, URINAL SCREEN - SEE SPEC.
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  - 36" GRAB BAR - INSTALL AT 36" FROM FINISHED FLOOR TO TOP OF THE BAR AND LOCATE OVER THE TOILET SO THAT THERE IS 24" OF BAR ON THE TRANSFER SIDE OF TOILET AND 12" ON THE NON TRANSFER SIDE. SEE SPEC. (TBA #04).
  - 42" GRAB BAR - INSTALL AT 36" FROM FINISHED FLOOR TO TOP OF THE BAR AND A MAX. OF 12" OFF OF THE BACK WALL. SEE SPEC. (TBA #05).
  - 18" VERTICALLY MOUNTED GRAB BAR - INSTALL VERTICALLY AT 40" FROM FINISHED FLOOR TO THE UNDERSIDE (HORIZONTAL) SURFACE OF THE BAR AND HORIZONTALLY 40" FROM THE BACK WALL TO THE CENTER OF THE BAR - SEE SPEC. (TBA #06).
  - NOTE THAT THE GYP BD. HEADER / SOFFIT IS TO BE HELD BACK 2" FROM THE END OF THE WING WALLS AT EACH END OF THE COUNTER AREA - THIS IS TO ALLOW THE TILE ON THE WING WALLS TO WRAP THE END OF THE WING WALL AND RETURN BACK TO THE GYP. BD.
  - TOILET PAPER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #07)
  - 18" x 36" STAINLESS STEEL FRAMED MIRROR WITH STAINLESS STEEL SHELF - MOUNT AT 40" FROM FINISH FLOOR TO LOWEST EDGE OF THE REFLECTIVE SURFACE - SEE SPEC. (TBA #08).
  - 46" TALL x FULL WIDTH OF COUNTER, FRAMELESS MIRROR WITH POLISHED EDGES - INSTALL WITH CONCEALED MOUNTING HARDWARE (TBA #09).
  - THIN SET WALL TILE - INSTALL TO HAVE EVEN SIZED TILES AT EDGES OF THE FIELD OF AT LEAST 1/2 SIZE TILES OR LARGER - SEE "T" #s ON ELEVATIONS FOR TILE TYPE (TYPES SCHEDULED IN SPEC.) - TYPICAL AT ALL CHANGES IN WALL TILE TYPE AND AT ALL OUTSIDE CORNERS. PROVIDE BLACK, ALUMINUM, TILE TRANSITION STRIP - COORDINATE WITH SPEC.
  - SEMI-RECESSED, BATTERY POWERED PAPER TOWEL DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - NO PART OF THE UNIT IS TO PROTRUDE MORE THAN 4" OFF OF THE FACE OF THE WALL - INSTALL AS TO HAVE THE HIGHEST OPERABLE PART OF THE DISPENSER NO MORE THAN 48" AFF. (TBA #10).
  - HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS - NOTE THAT THE BOTTLE FILLER MUST ALSO BE INSTALLED AS TO BE ADA ACCESSIBLE.
  - SANITARY NAPKIN DISPOSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #11).
  - TOILET SEAT PAPER COVER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - INSTALL AT 48" AFF TO HIGHEST OPERABLE COMPONENT - SEE SPEC. (TBA #12).
  - HEAVY DUTY WALL STANDARDS AND BRACKETS (ADJUSTABLE) WITH 12" DEEP x 1" THICK x FULL WIDTH PLASTIC LAMINATE SHELVES.
  - PAINTED GYP. BD. HEADER ABOVE COUNTER
  - PAINTED GYP. BD. WALL ABOVE TILE
  - JANITORS / MOP SINK AND FAUCET - SEE PLUMBING DRAWINGS
  - SPACE FOR WATER HEATER - SEE PLUMBING DRAWINGS.
  - SEMI RECESSED NAPKIN / TAMPON VENDOR TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #14).

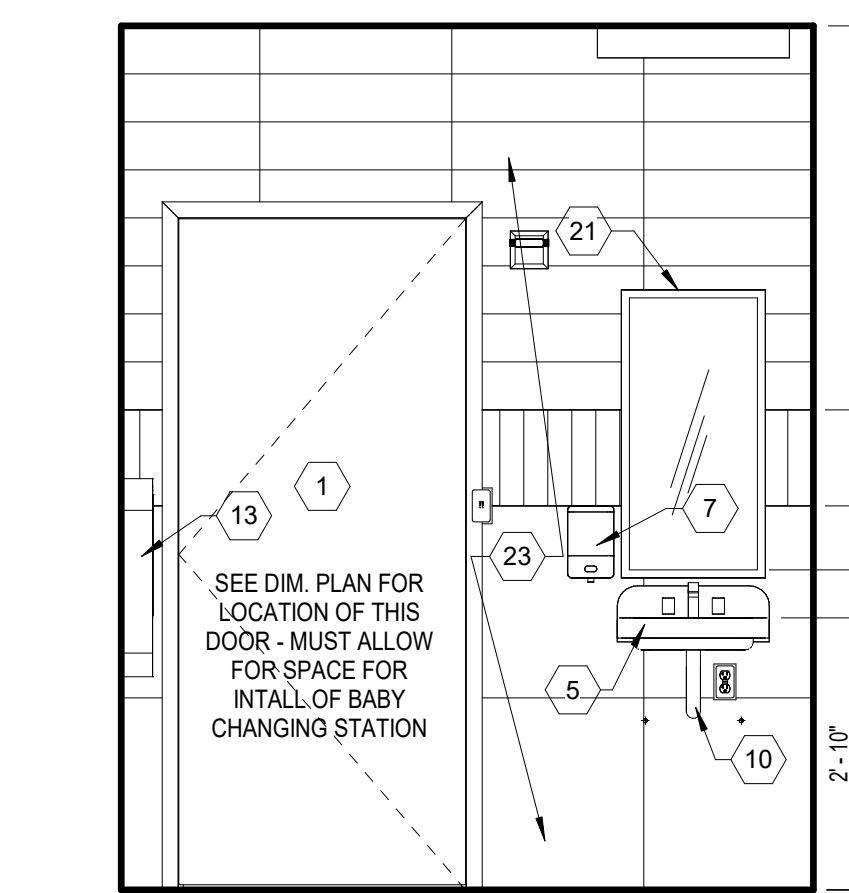
NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER BACKING IN WALLS FOR ALL WALL MOUNTED ITEMS, WHETHER THE ITEM IS TO BE PROVIDED AND INSTALLED UNDER CONTRACT OR IF PROVIDED AND INSTALLED BY THE OWNER - COORDINATE ALL SUCH BACKING REQUIREMENTS WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AS WELL AS WITH THE OWNER / VENDOR.

ALL TOILET ACCESSORIES, DRINKING FOUNTAINS, "ACCESSIBLE" FIXTURES ETC. MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF "ansi.a117.1.2017" - COORDINATE WITH "ansi.a117.1.2017" AND WITH G1007 - ANY DISCREPANCIES BETWEEN THESE DOCUMENTS, OR IF INSTALLATION REQUIREMENTS ARE UNCLEAR, THE CONTRACTOR IS REQUIRED TO CONSULT WITH THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF ITEMS IN QUESTION

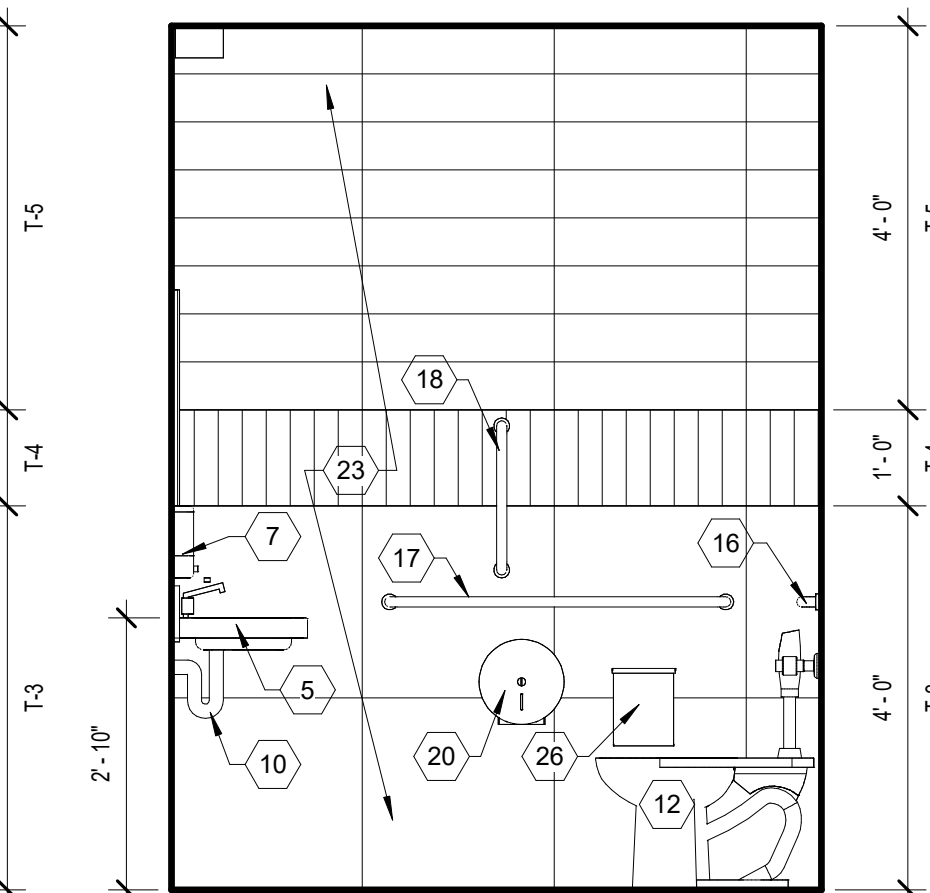
NOTE THAT THE "TBA #s" LISTED IN THE KEYED NOTES ABOVE, REFERENCE TOILET & BATH ACCESSORIES THAT ARE SCHEDULED IN THE SPECIFICATIONS - COORDINATE WITH THE SPECIFICATIONS AS REQ'D.



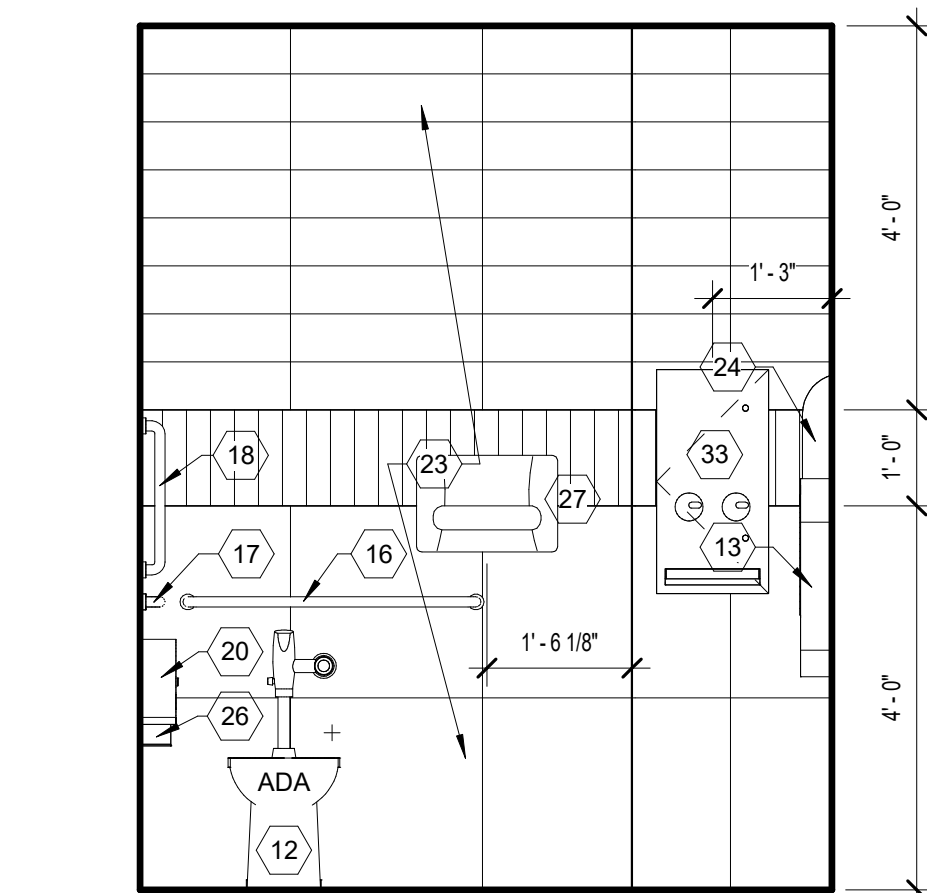
**D1 JAN. 173 - W**  
1/2" = 1'-0"



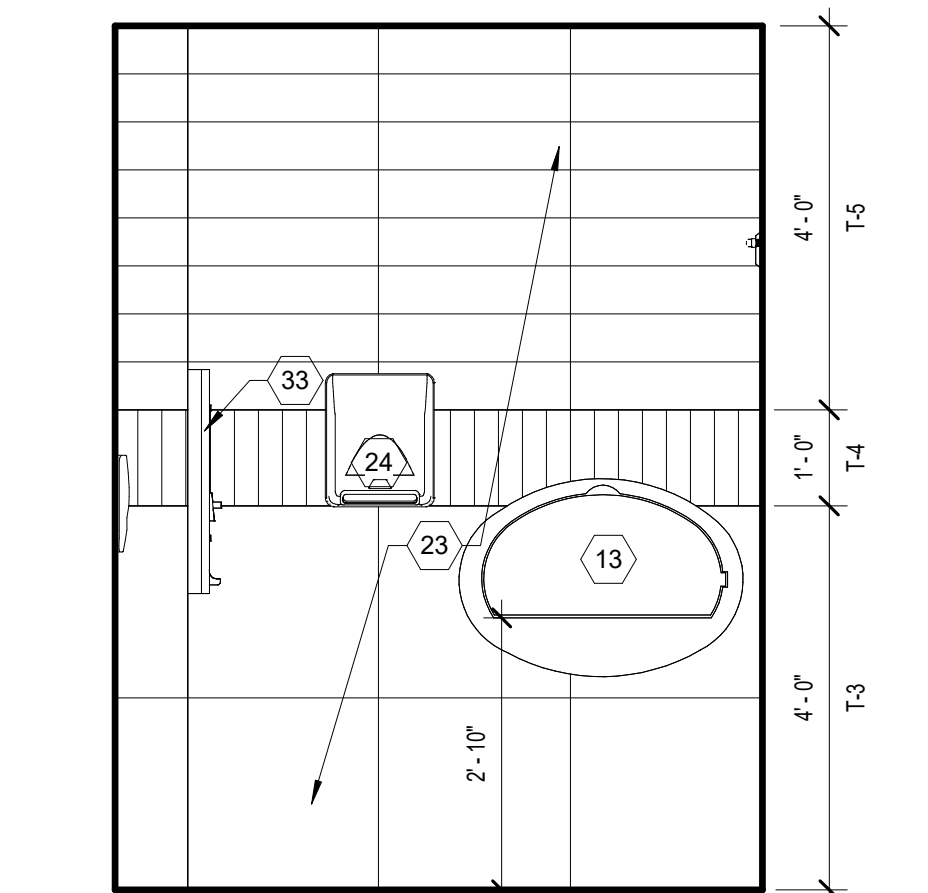
**C1 T.R. 170 - N**  
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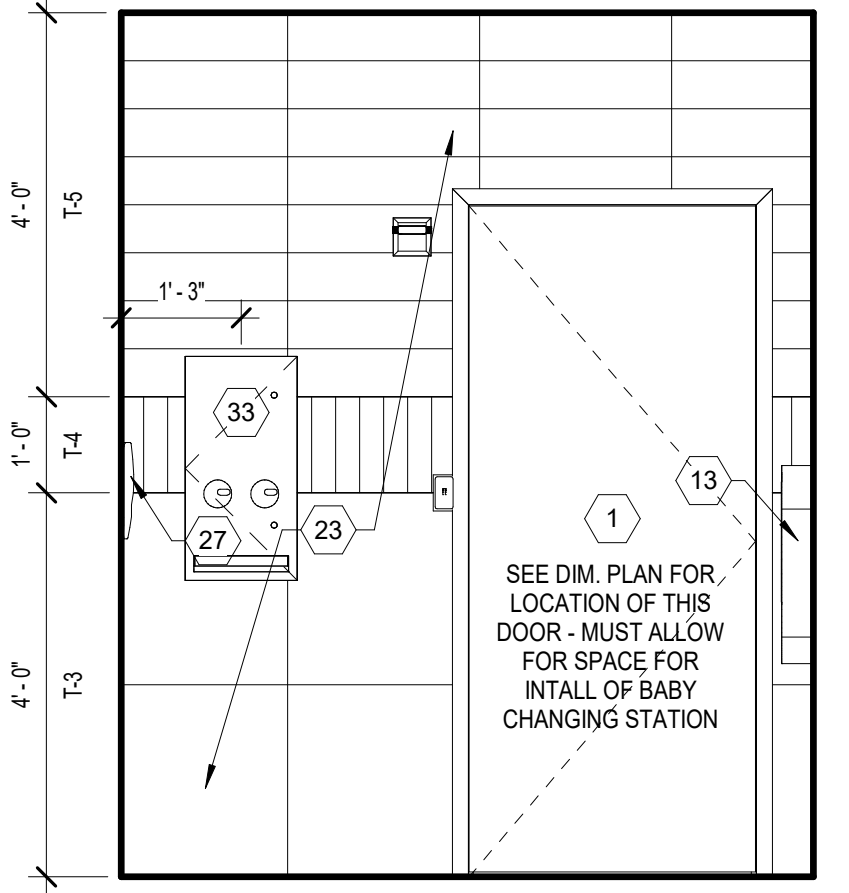
**C2 T.R. 170 - E**  
1/2" = 1'-0"



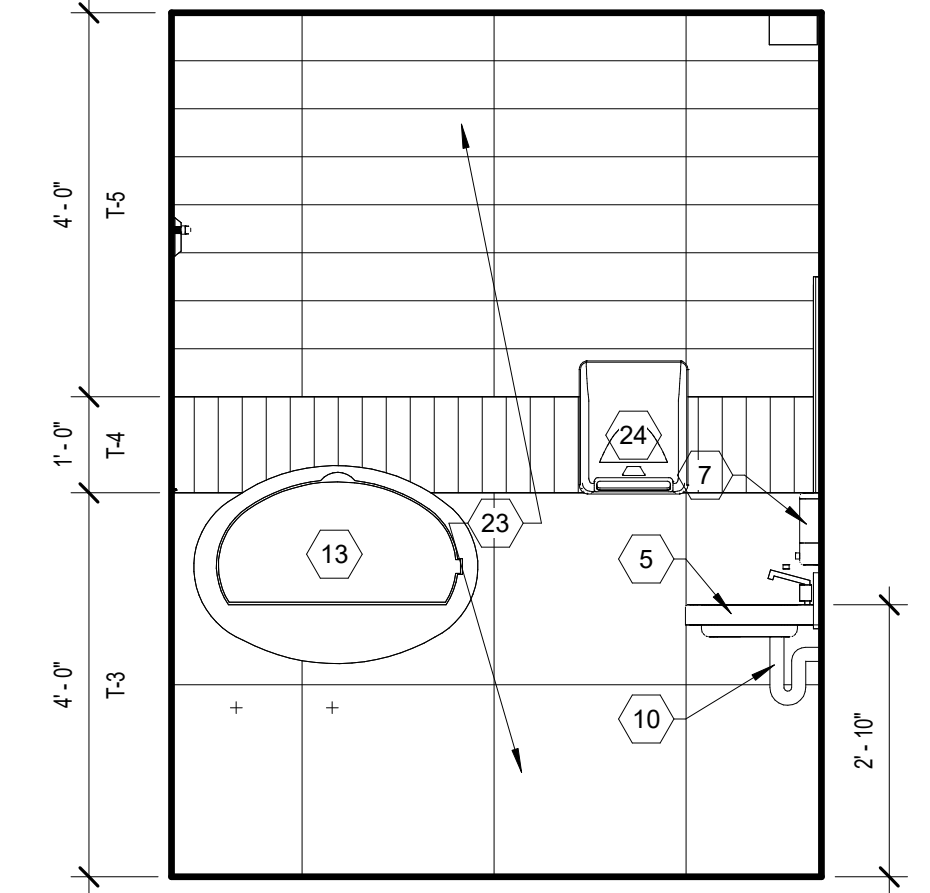
**C3 T.R. 170 - S**  
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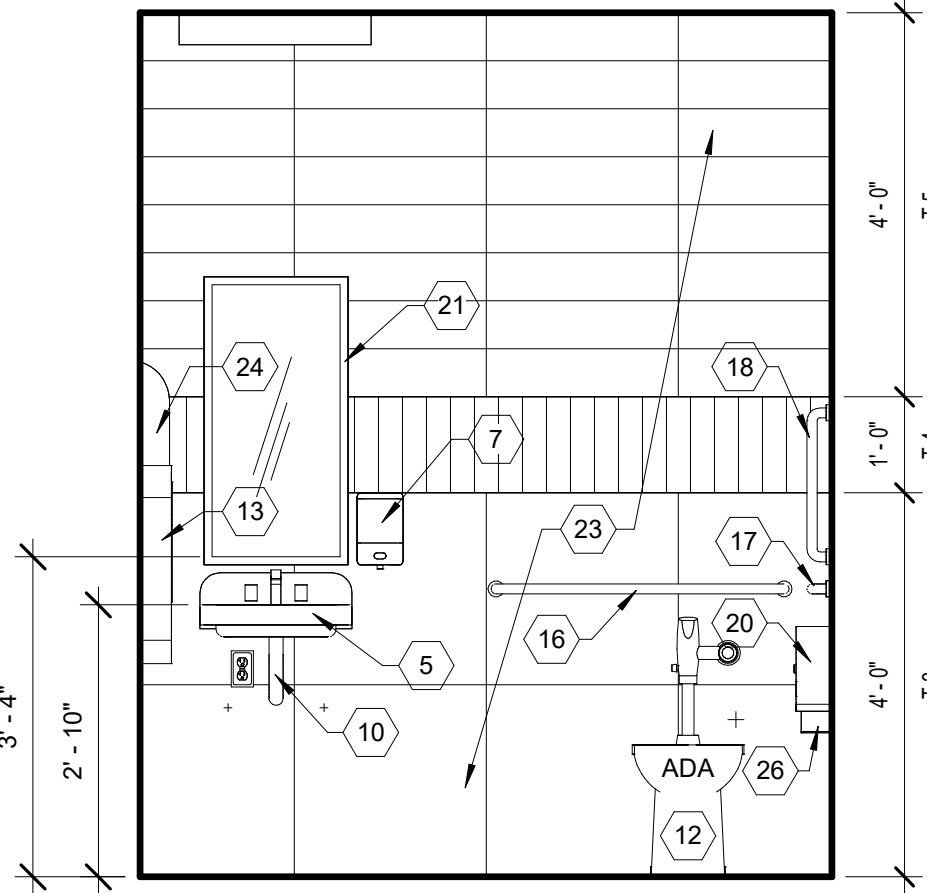
**C4 T.R. 170 - W**  
1/2" = 1'-0"



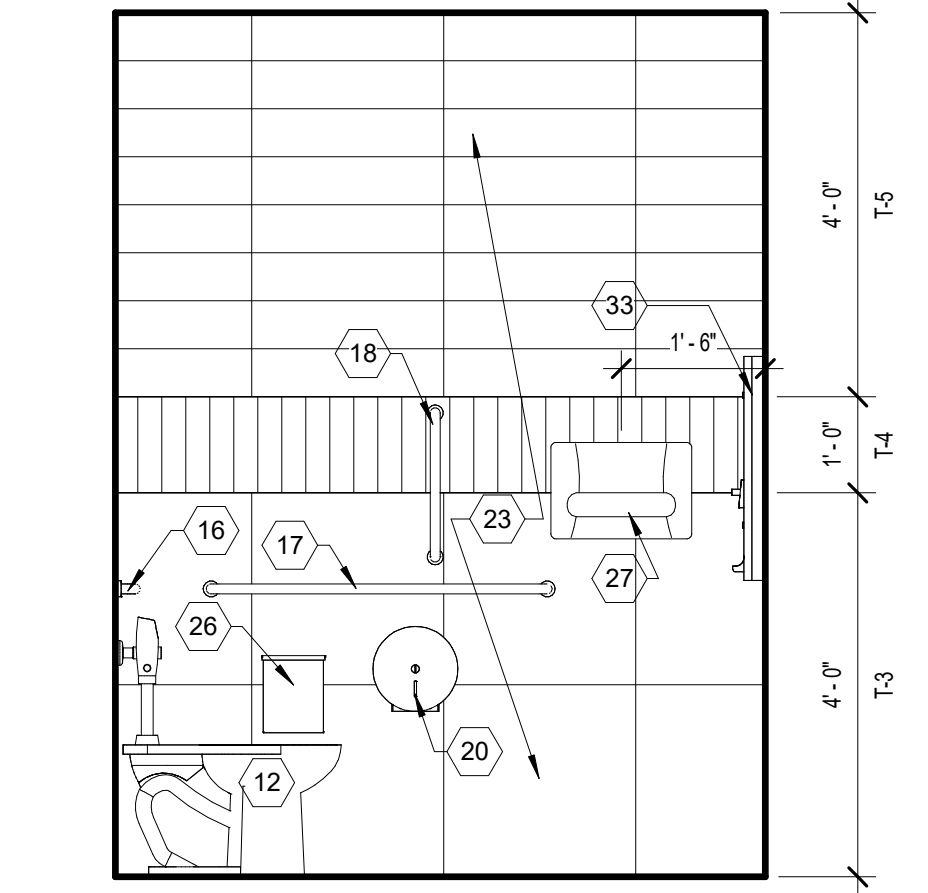
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1/2" = 1'-0"



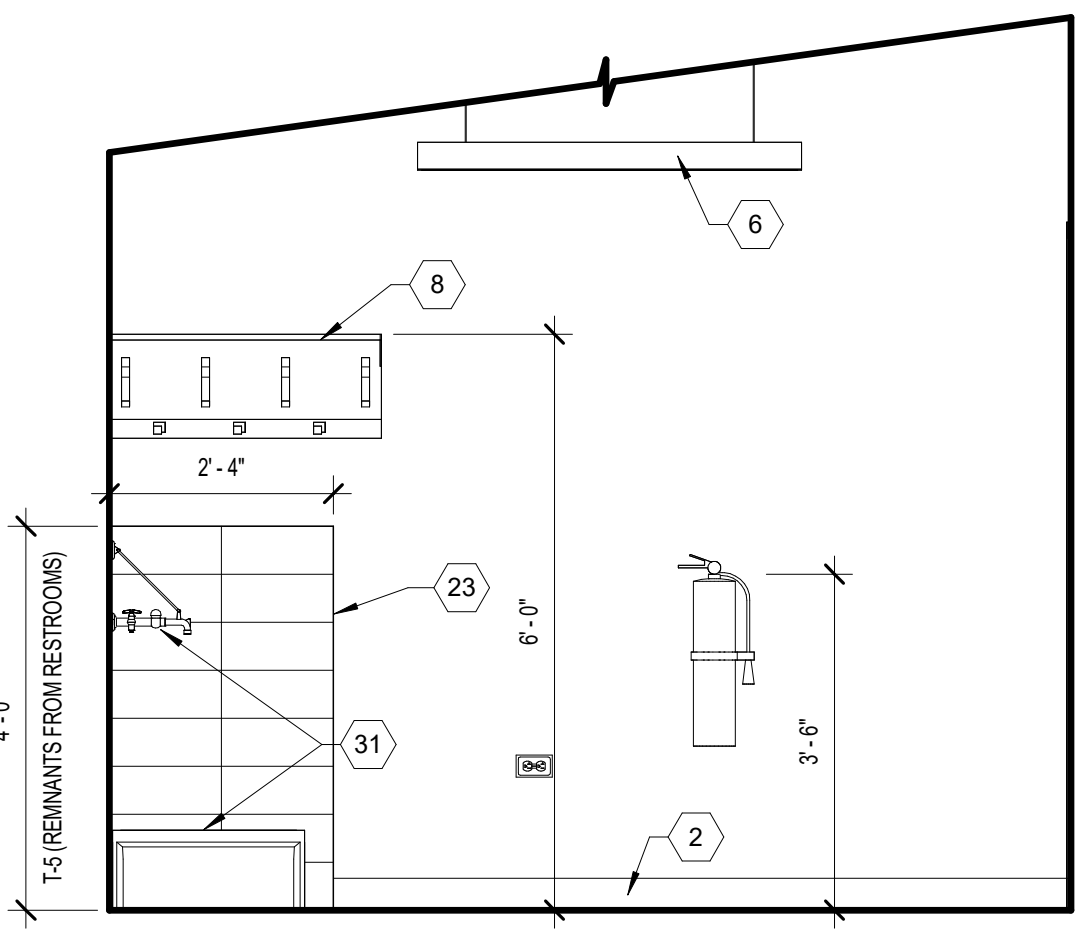
**B2 T.R. 169 - E**  
1/2" = 1'-0"



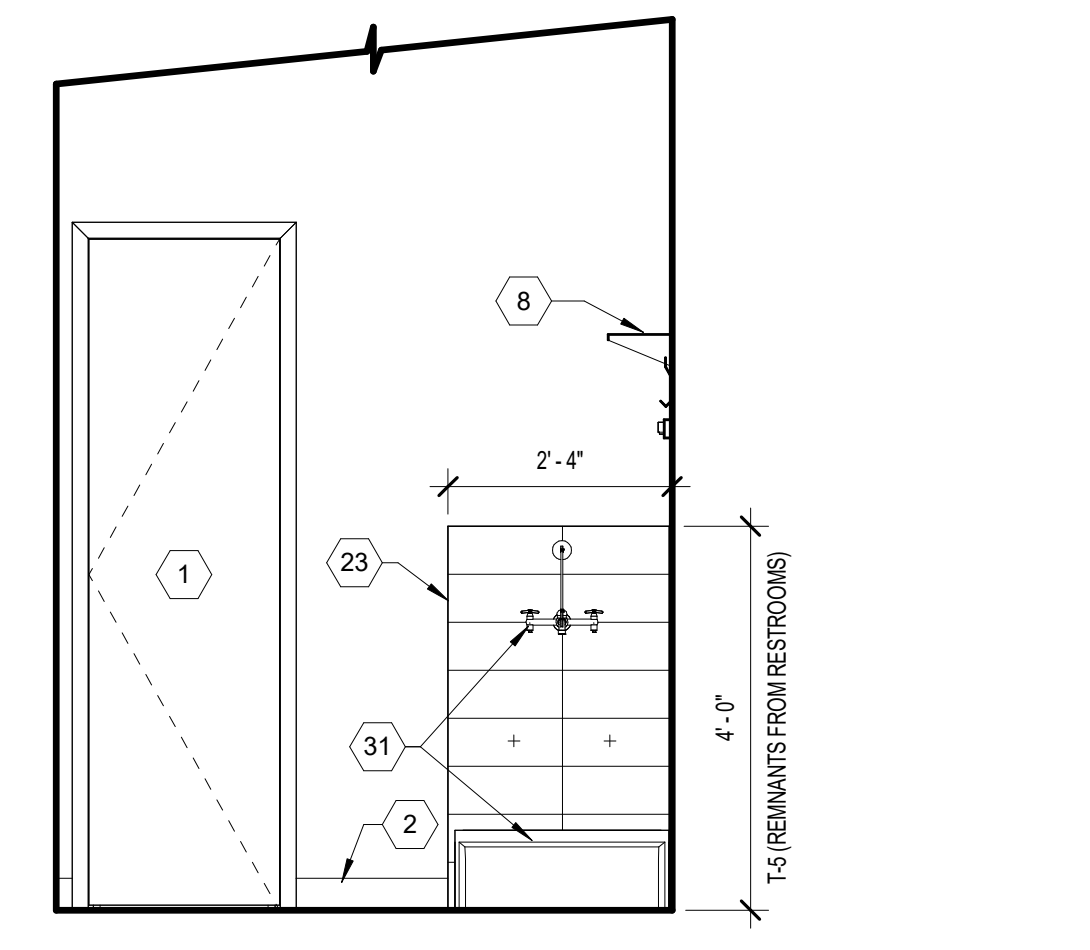
**B3 T.R. 169 - S**  
1/2" = 1'-0"



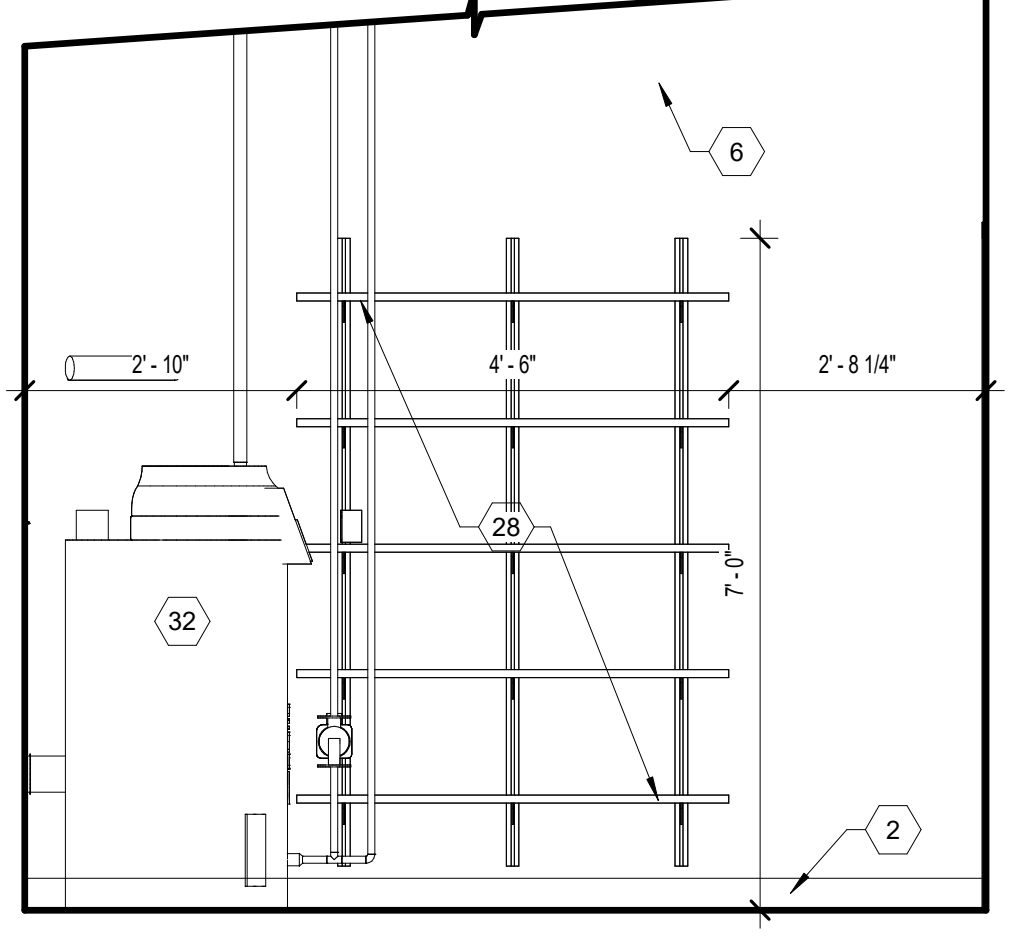
**B4 T.R. 169 - W**  
1/2" = 1'-0"



**A1 JAN. 115 - E**  
1/2" = 1'-0"



**A2 JAN. 115 - N**  
1/2" = 1'-0"



**A3 JAN. 115 - W**  
1/2" = 1'-0"

REVISIONS

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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | GTE                   |
| CHECKED BY:      | SPE                   |
| DESIGNED BY:     | SPE                   |
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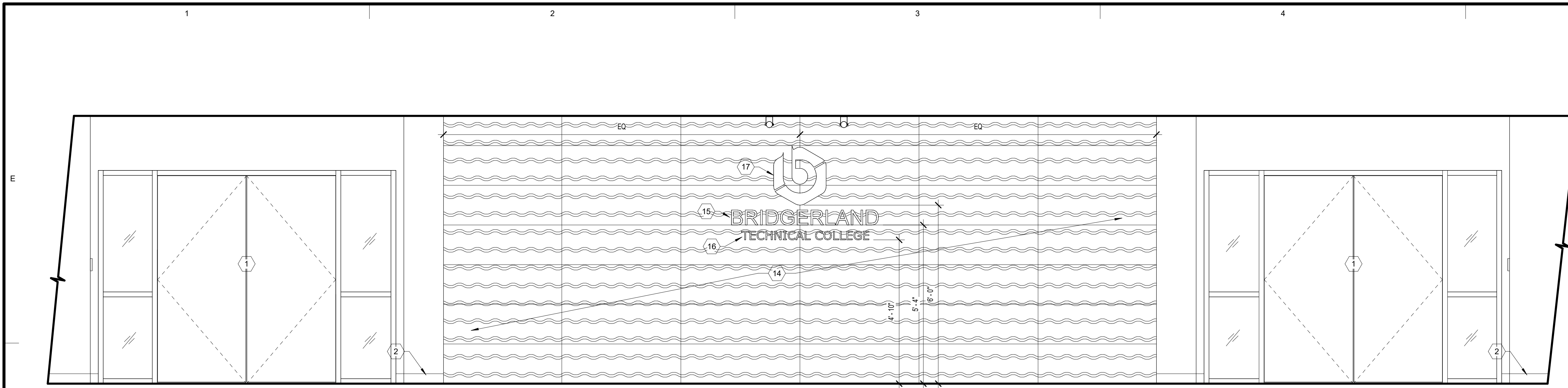
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**INTERIOR ELEVATIONS**

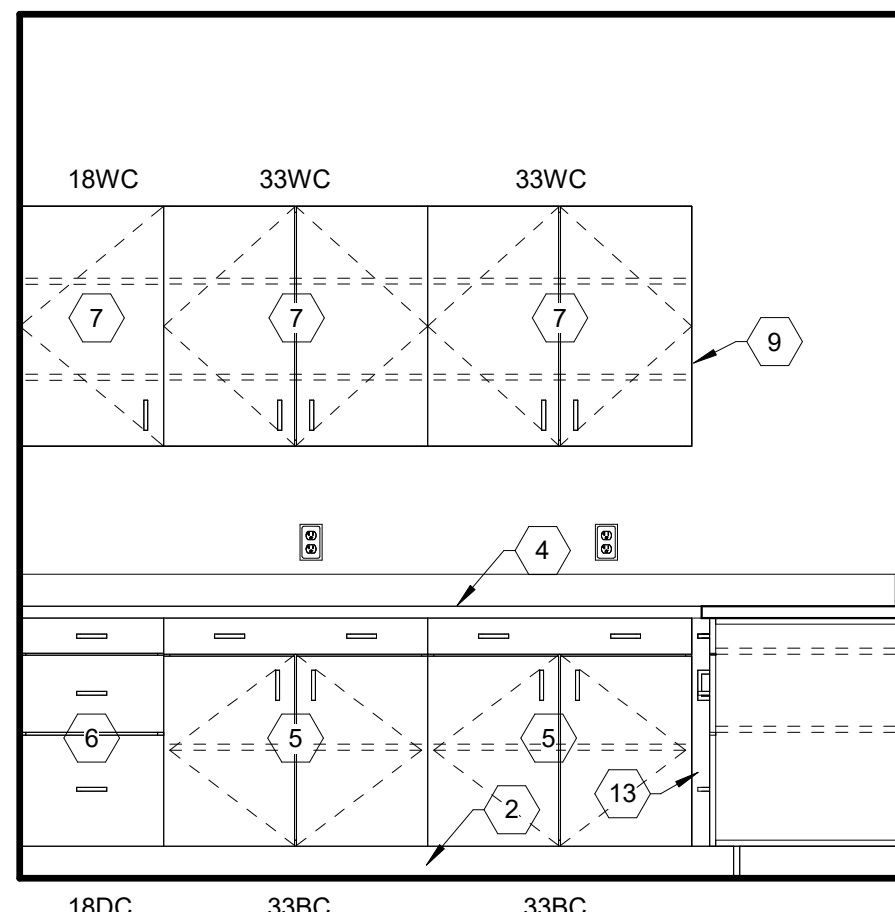
SHEET NUMBER:

**AE-205**

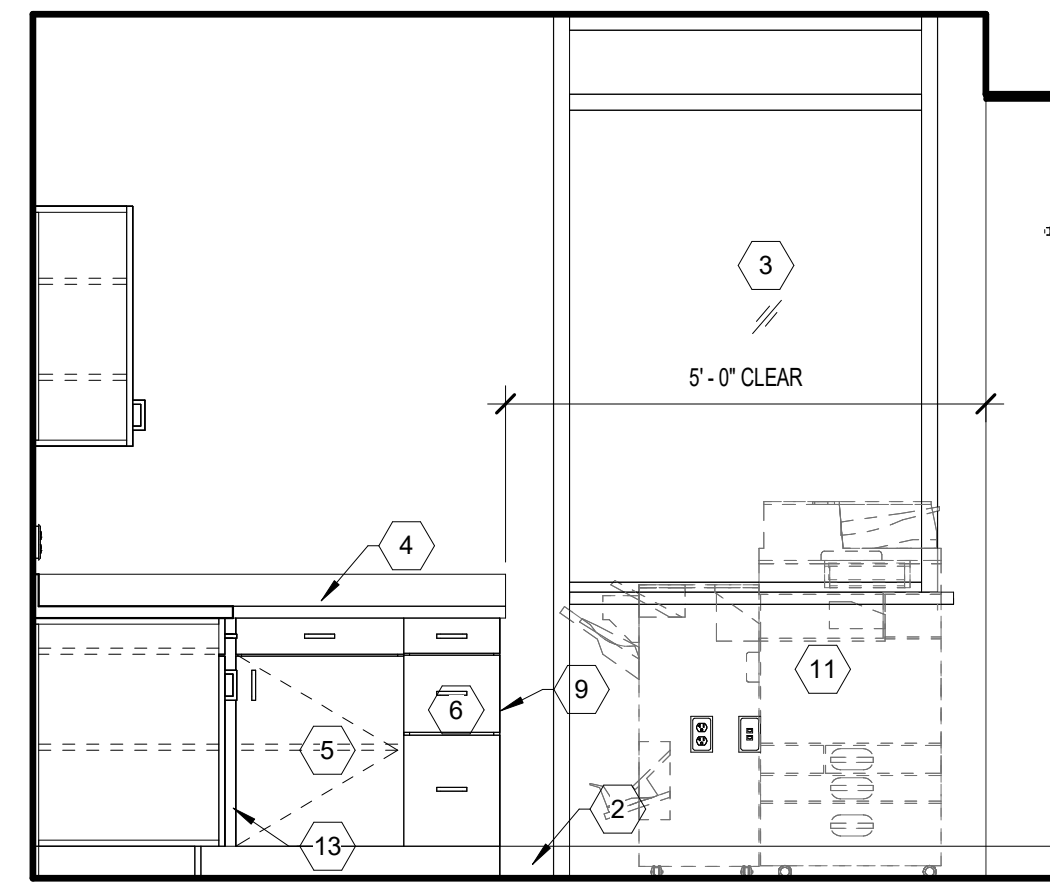




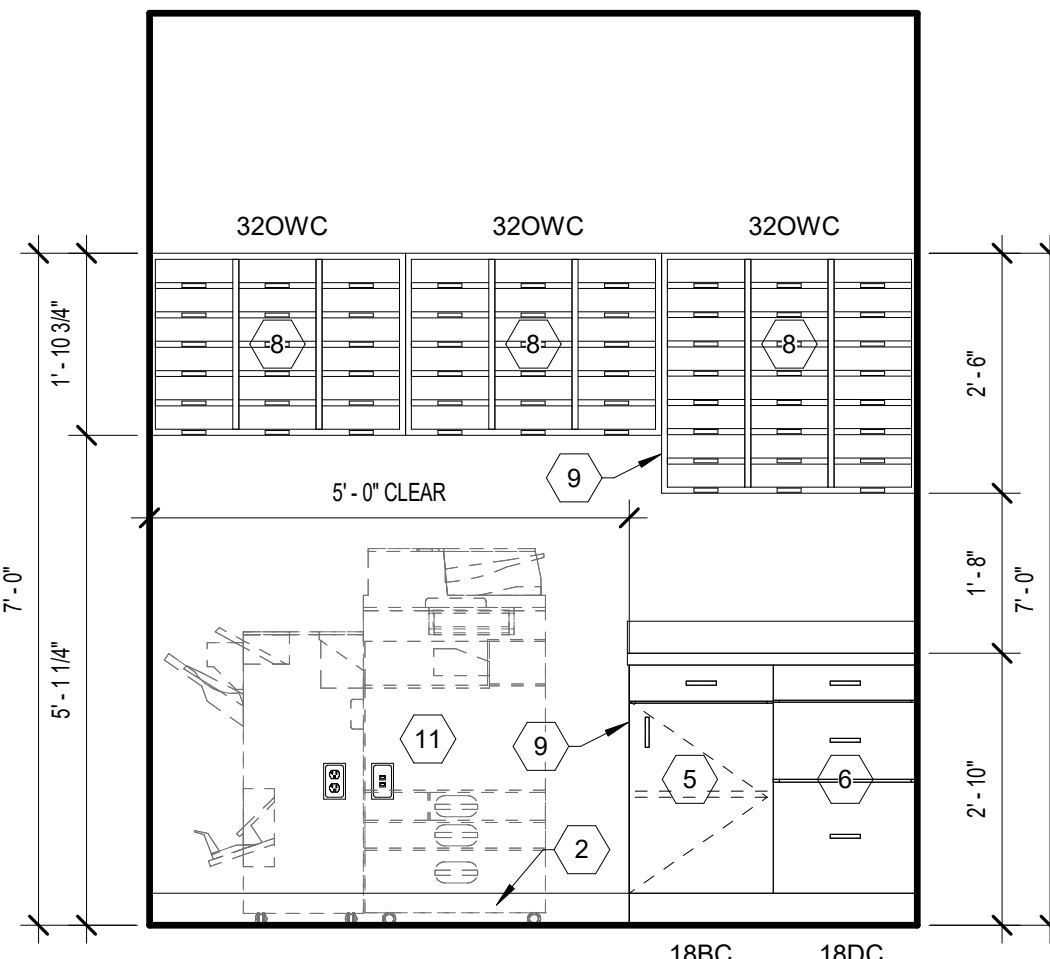
**D1** CORRIDOR 105 - S (02)  
1/2" = 1'-0"



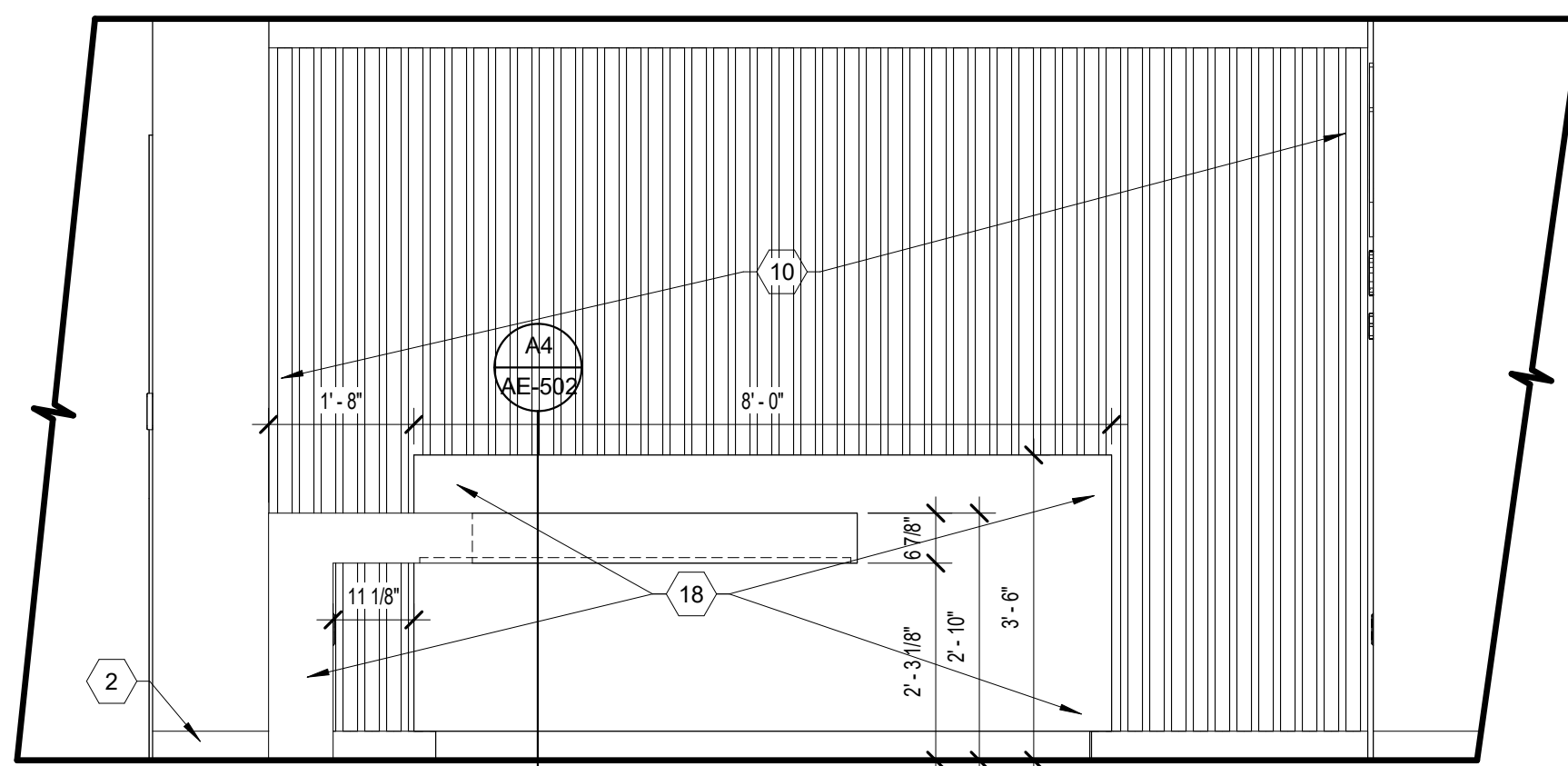
**C1** WORK ROOM 161 - S  
1/2" = 1'-0"



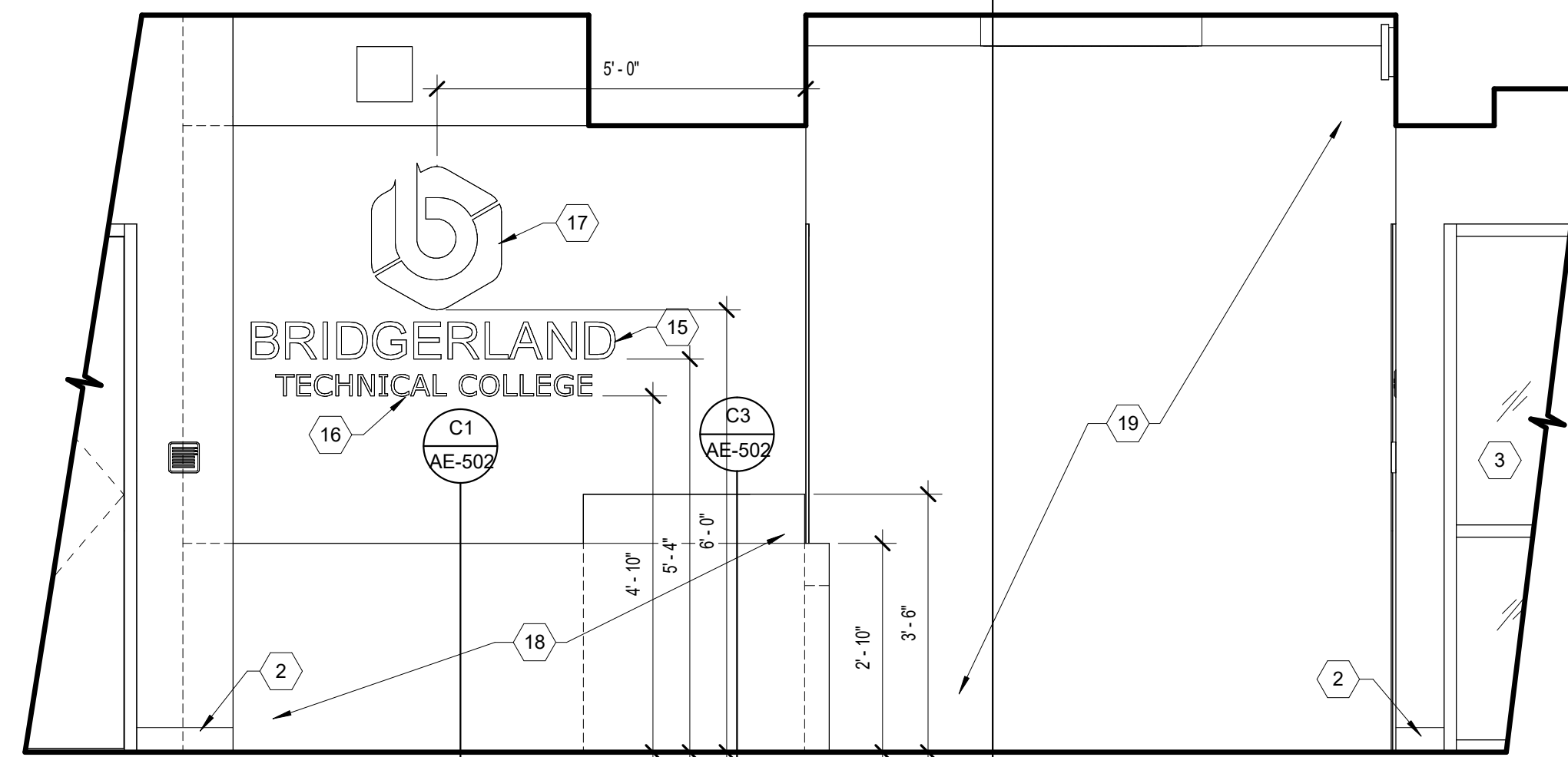
**C2** WORK ROOM 161 - W  
1/2" = 1'-0"



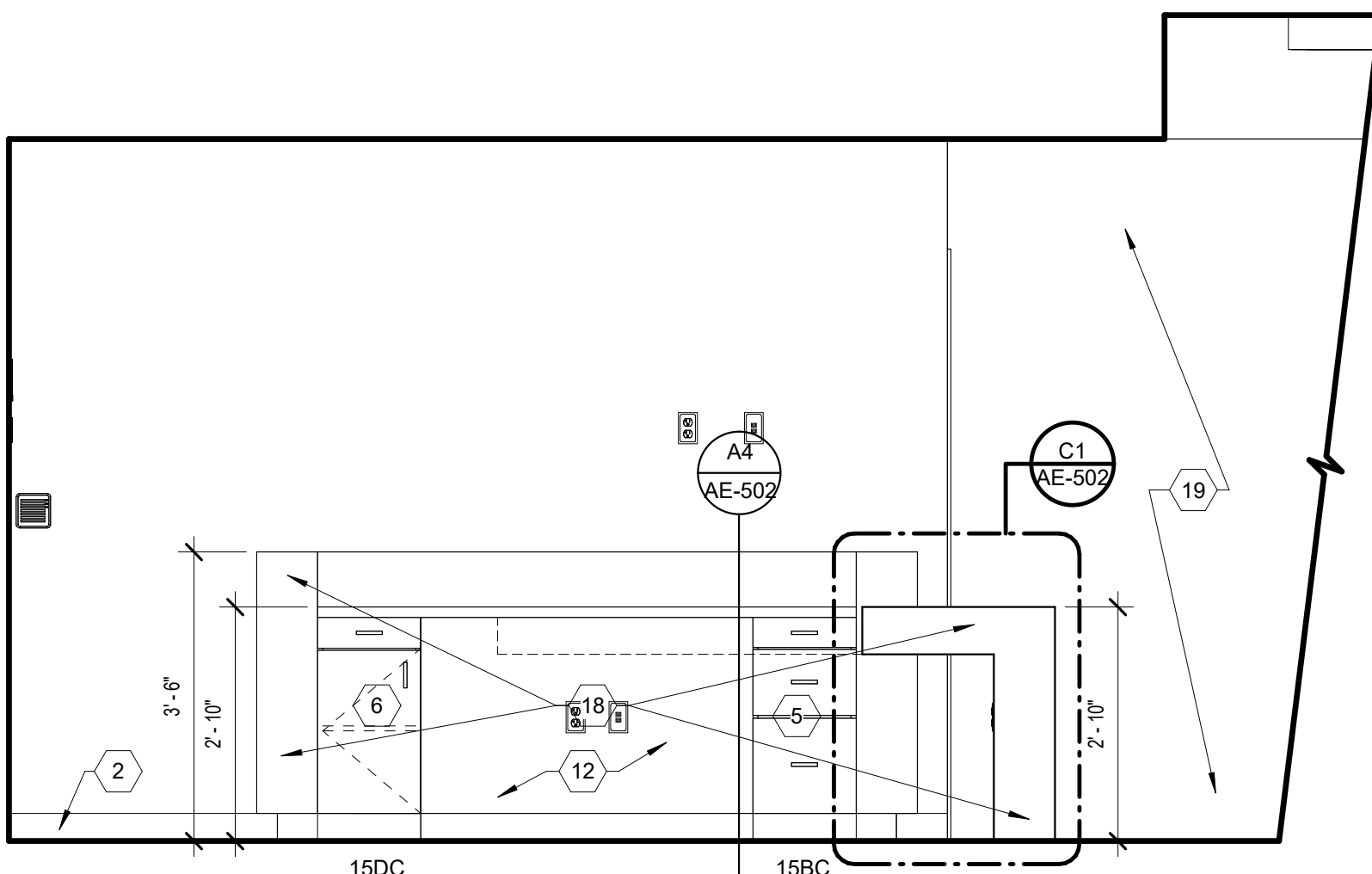
**C3** COPY 104 - E  
1/2" = 1'-0"



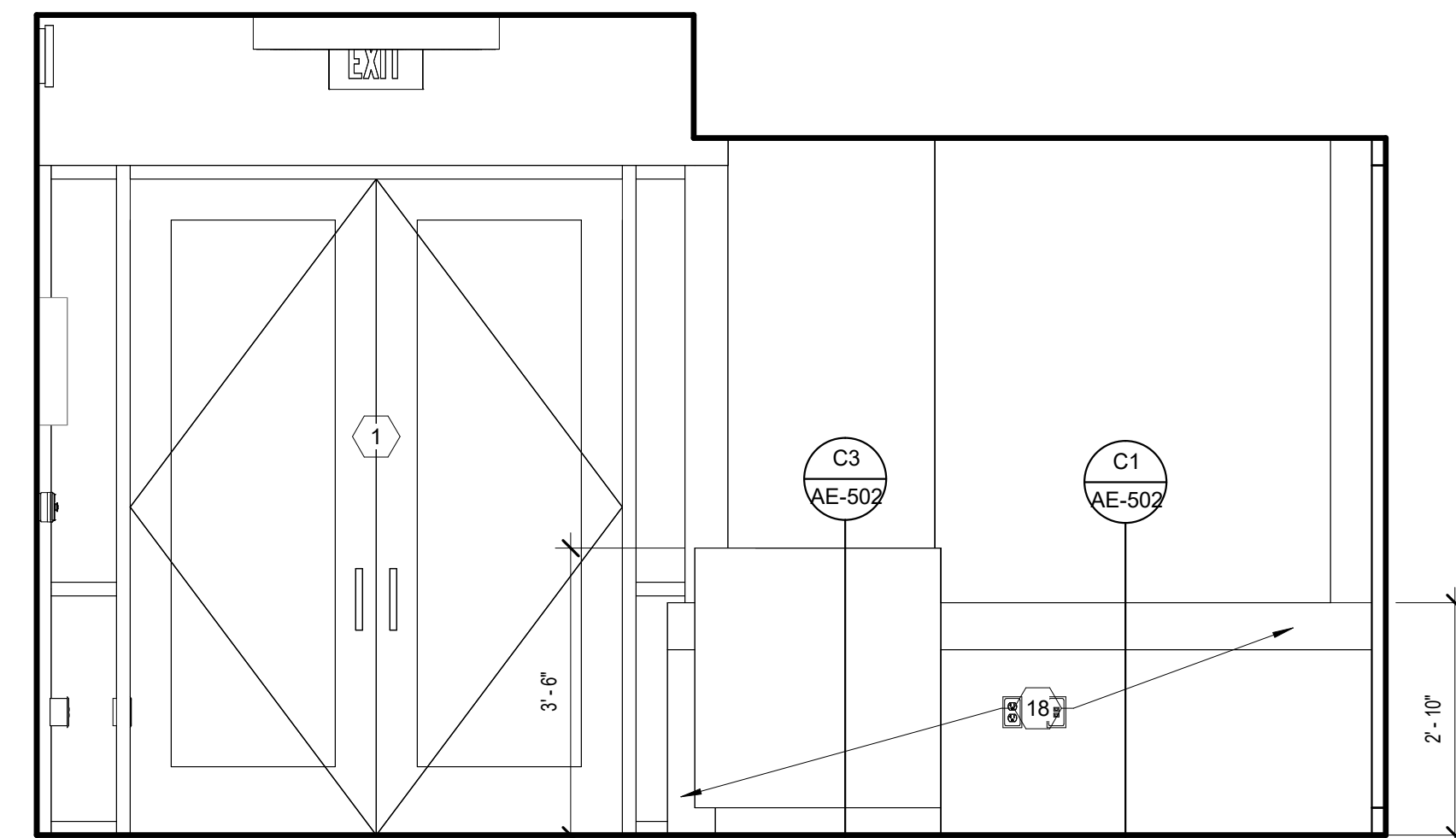
**B1** CORRIDOR 105 - S (01)  
1/2" = 1'-0"



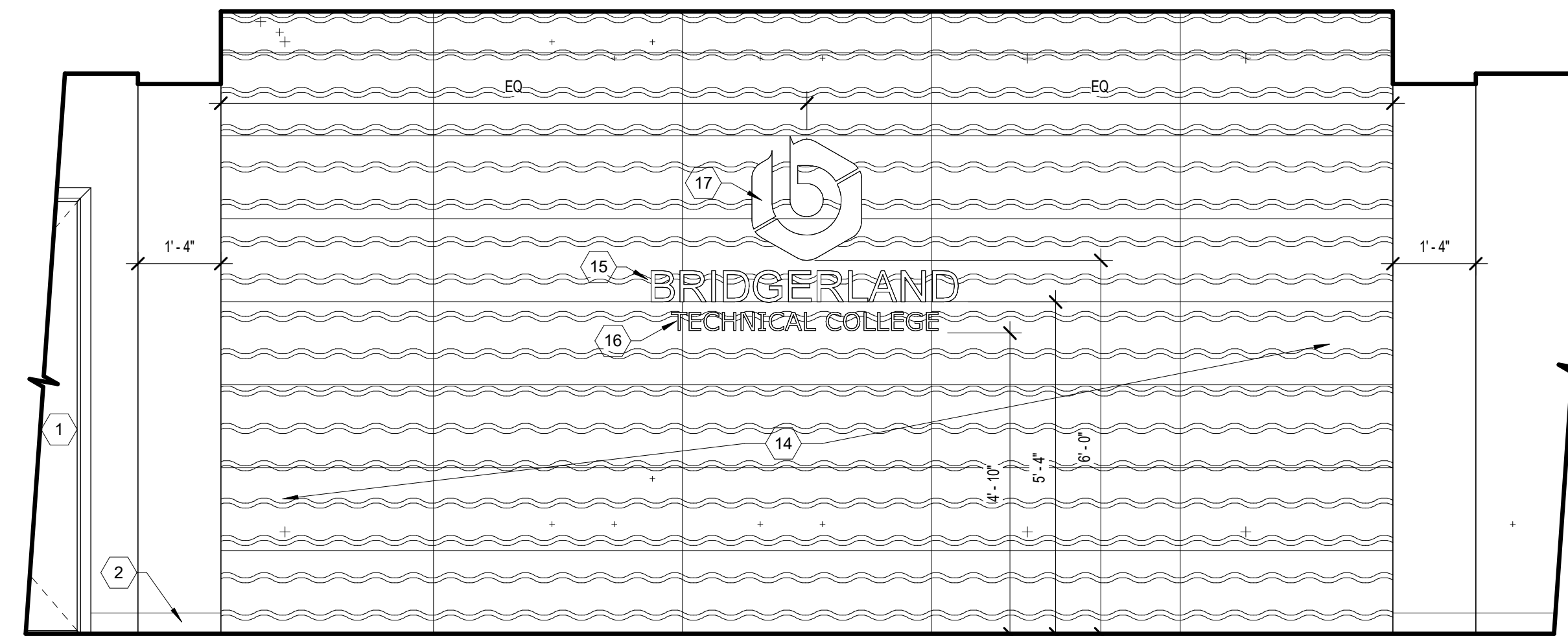
**B3** WAITING 102 - W  
1/2" = 1'-0"



**A1** RECEPTION 103 - N  
1/2" = 1'-0"



**A3** RECEPTION 103 - E  
1/2" = 1'-0"



**A4** LOBBY / WAITING 157 - S  
1/2" = 1'-0"

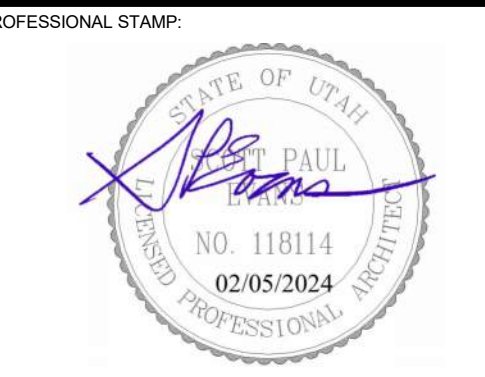
**KEYED NOTES**

1. DOOR / OPENING / ENTRY SYSTEM - SEE DOOR SCHEDULE.
2. WALL BASE - SEE FINISH SCHEDULE.
3. WINDOW - SEE WINDOW SCHEDULE.
4. 25" DEEP, 1 1/4" THICK QUARTZ COUNTERTOP WITH 4" QUARTZ BACK SPLASH - EDGES ARE TO BE SQUARE WITH EASED EDGES (TYP.).
5. 24" DEEP PLASTIC LAMINATE BASE CABINET WITH 1" THICK ADJUSTABLE MELAMINE SHELF AND DRAWER.
6. 24" DEEP PLASTIC LAMINATE DRAWER CABINET WITH FULL EXTENSION HARDWARE.
7. 13" DEEP WALL CABINET WITH 1" THICK MELAMINE SHELVES.
8. 13" DEEP MAIL SLOT CABINET - ALL SURFACES TO BE PLASTIC LAMINATE - MAIL SLOTS MUST BE SPACED EVENLY AND MUST BE A MINIMUM SIZE OF 9" W x 12" D x 2 3/4" H - CENTERED BENEATH EACH MAIL SLOT. PROVIDE METALLIC NAME TAG HOLDERS DESIGNED FOR INTERCHANGEABLE PAPER NAME TAG INSERTS.
9. FINISHED END. (TYPICAL ON ALL EXPOSED SURFACES).
10. 2" x 2" WOOD LOOK ALUMINUM BATTENS OVER MAT BLACK PLASTIC LAMINATE (PLASTIC LAMINATE TO COVER ENTIRE WALL SURFACE) - PROVIDE 2" DEEP x 4" HIGH HORIZONTAL BATTEN AT THE FLOOR AND CEILING LINES - PROVIDE 1" GAP BETWEEN VERT. BATTENS - SEE SPEC.
11. SPACE FOR COPY MACHINE - COPY MACHINE TO BE PROVIDED BY THE OWNER - COORDINATE WITH ELECTRICAL DRAWINGS.
12. OPEN KNEE SPACE - FINISH ALL EXPOSED SURFACES.
13. BLANK PLASTIC LAMINATE CORNER FILLER.
14. THIN SET WALL TILE (TILE TYPE "T-1" - SEE SPEC.) - INSTALL TO HAVE EVEN SIZED TILES AT EDGES OF THE FIELD OF AT LEAST 1/2 SIZE TILES OR LARGER - COORDINATE WITH SPEC.
15. 3/4" THICK x 6" TALL CLEAR ANODIZED ALUMINUM INDIVIDUAL LETTERS - FONT TO BE OWNERS STANDARD FONT (COORD. W/ OWNER DURING SUBMITTAL PHASE) - MOUNT TO WALL USING 1/2" STAND-OFFS AND CONCEALED HARDWARE - PROVIDE SOLID BACKING IN WALL AS REQ'D FOR SECURE MOUNTING - INSTALL AT LOCATION INDICATED - SCREEN PRINT OWNER APPROVED COLOR TO FACE OF LETTERS - FINAL WORDING AND COLORS TO BE DETERMINED DURING THE SUBMITTAL PHASE.
16. 3/4" THICK x 3 1/2" TALL CLEAR ANODIZED ALUMINUM INDIVIDUAL LETTERS - FONT TO BE OWNERS STANDARD FONT (COORD. W/ OWNER DURING SUBMITTAL PHASE) - MOUNT TO WALL USING 1/2" STAND-OFFS AND CONCEALED HARDWARE - PROVIDE SOLID BACKING IN WALL AS REQ'D FOR SECURE MOUNTING - INSTALL AT LOCATION INDICATED - SCREEN PRINT OWNER APPROVED COLOR TO FACE OF LOGO - FINAL LOGO DESIGN AND COLORS TO BE DETERMINED DURING THE SUBMITTAL PHASE.
17. 3/4" THICK x 2 1/2" WIDE CLEAR ANODIZED BRIDGERLAND LOGO - MOUNT TO WALL USING 1/2" STAND-OFFS AND CONCEALED HARDWARE - PROVIDE SOLID BACKING IN WALL AS REQ'D FOR SECURE MOUNTING - INSTALL AT LOCATION INDICATED - SCREEN PRINT OWNER APPROVED COLORS TO FACE OF LOGO - FINAL LOGO DESIGN AND COLORS TO BE DETERMINED DURING THE SUBMITTAL PHASE.
18. RECEPTION COUNTER - SEE ENLARGED PLANS AND RELATED DETAILS.
19. OPEN TO BEYOND.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER BACKING / BLOCKING IN WALLS FOR ALL WALL MOUNTED ITEMS, WHETHER THE ITEM IS TO BE PROVIDED AND INSTALLED UNDER CONTRACT OR IF PROVIDED AND INSTALLED BY THE OWNER - COORDINATE ALL SUCH BACKING REQUIREMENTS WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AS WELL AS WITH THE OWNER / VENDOR.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com



PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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**INTERIOR ELEVATIONS**

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 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
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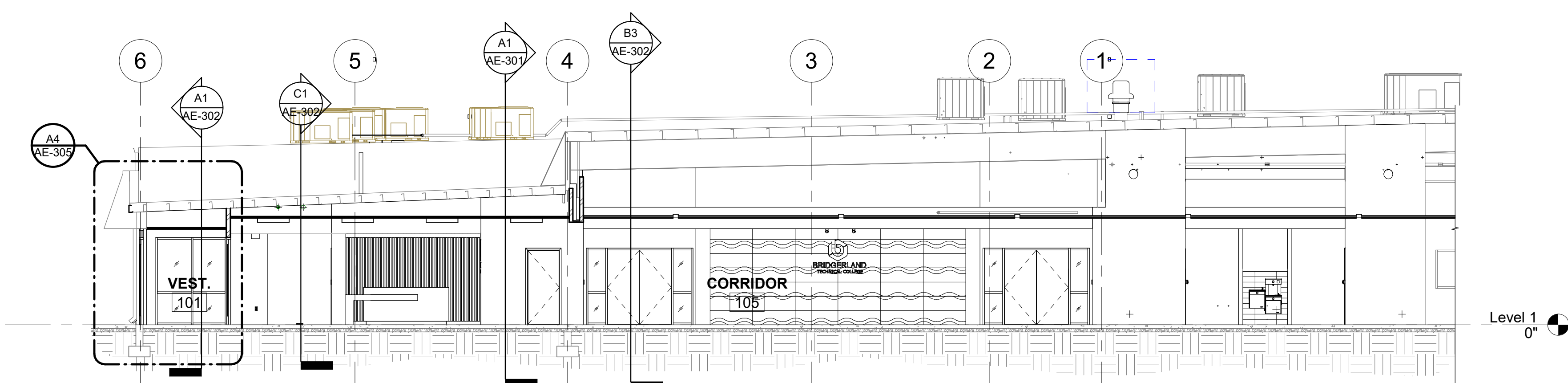
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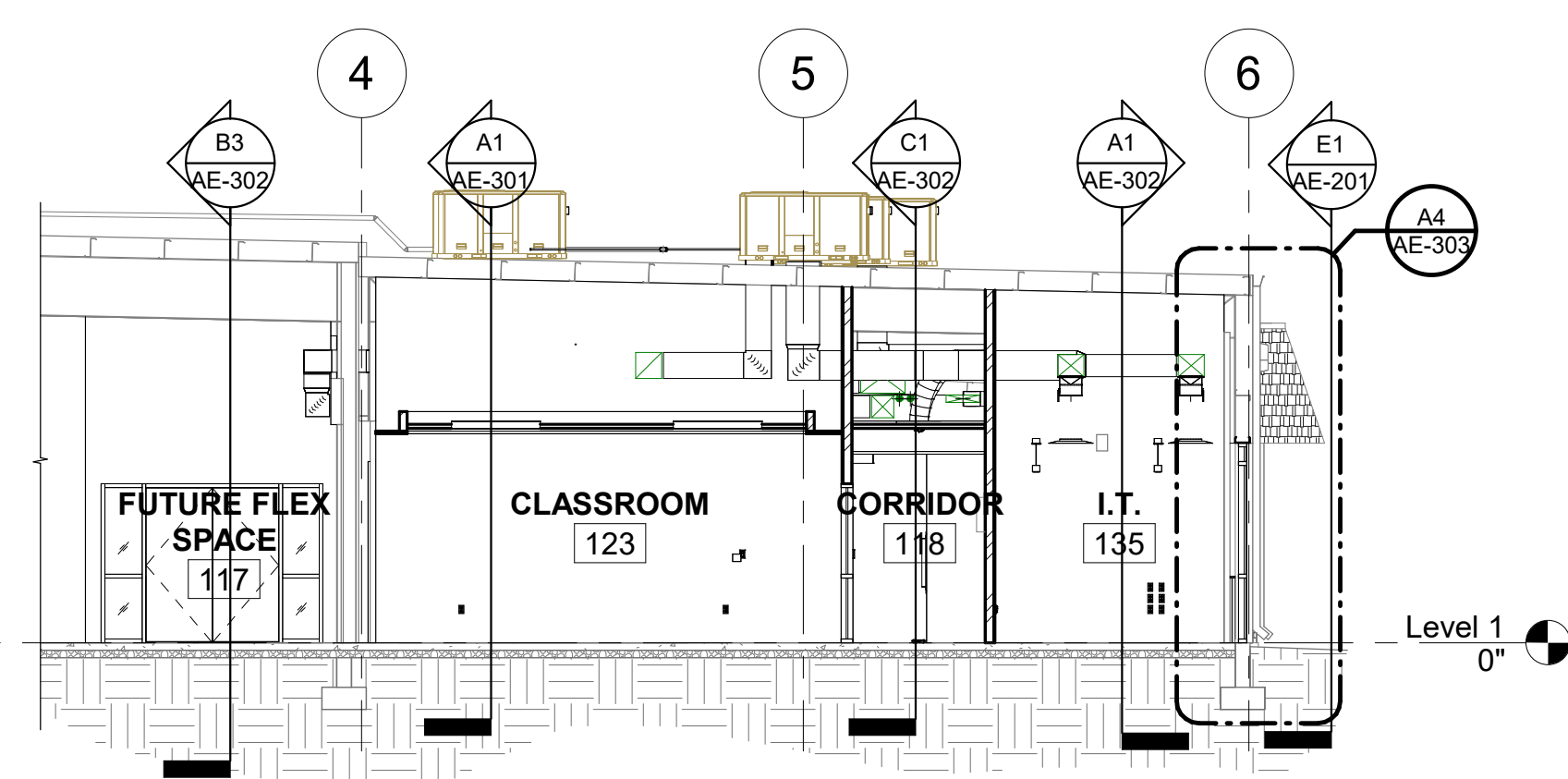
**BUILDING  
 SECTIONS**

SHEET NUMBER:

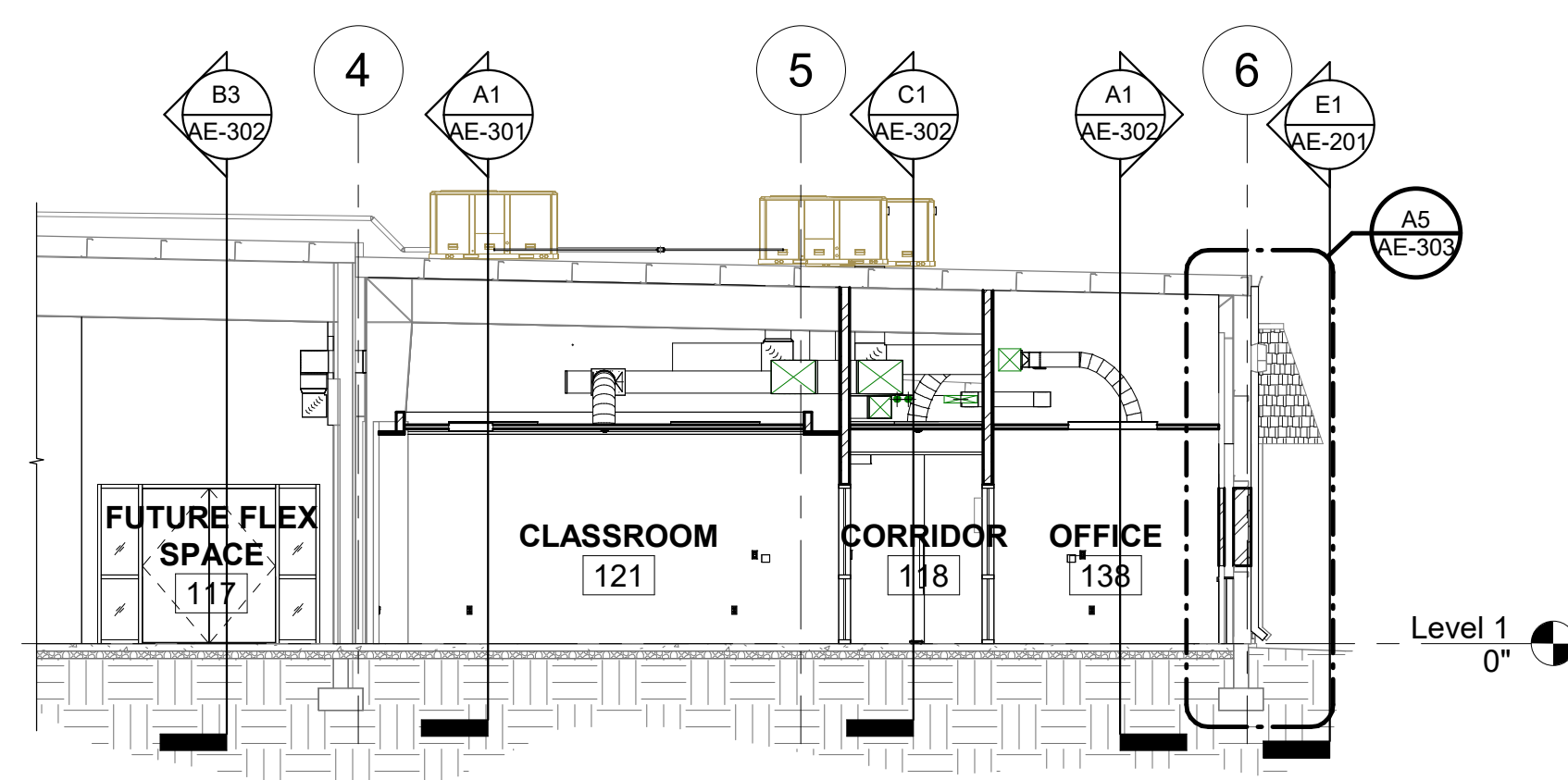
**AE-301**



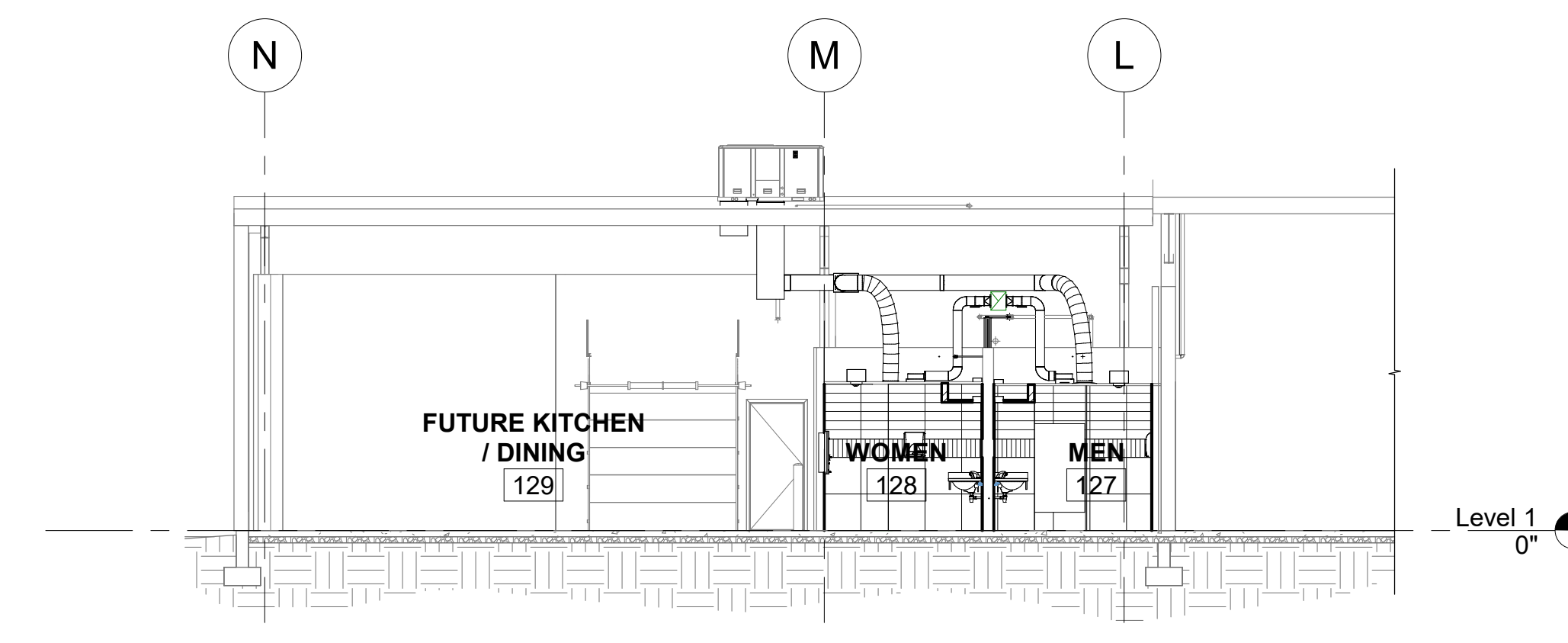
**C1 BUILDING SECTION**  
 1/8" = 1'-0"



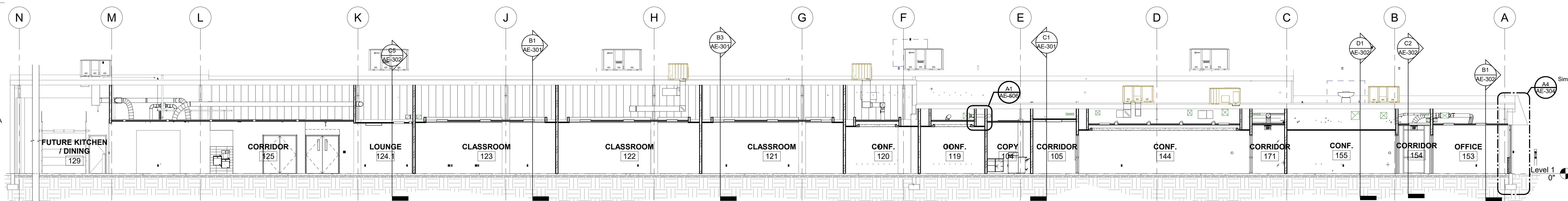
**B1 BUILDING SECTION**  
 1/8" = 1'-0"



**B3 BUILDING SECTION**  
 1/8" = 1'-0"



**B5 BUILDING SECTION**  
 1/8" = 1'-0"



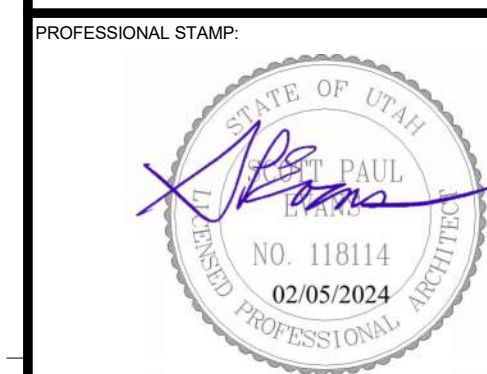
**A1 BUILDING SECTION**  
 1/8" = 1'-0"

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 P.O. Box 517  
 Kaysville, Utah 84037  
 t: 801-298-1369  
 info@spe-architect.com  
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SPE PROJECT #: 22-38

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DESIGNED BY: SPE

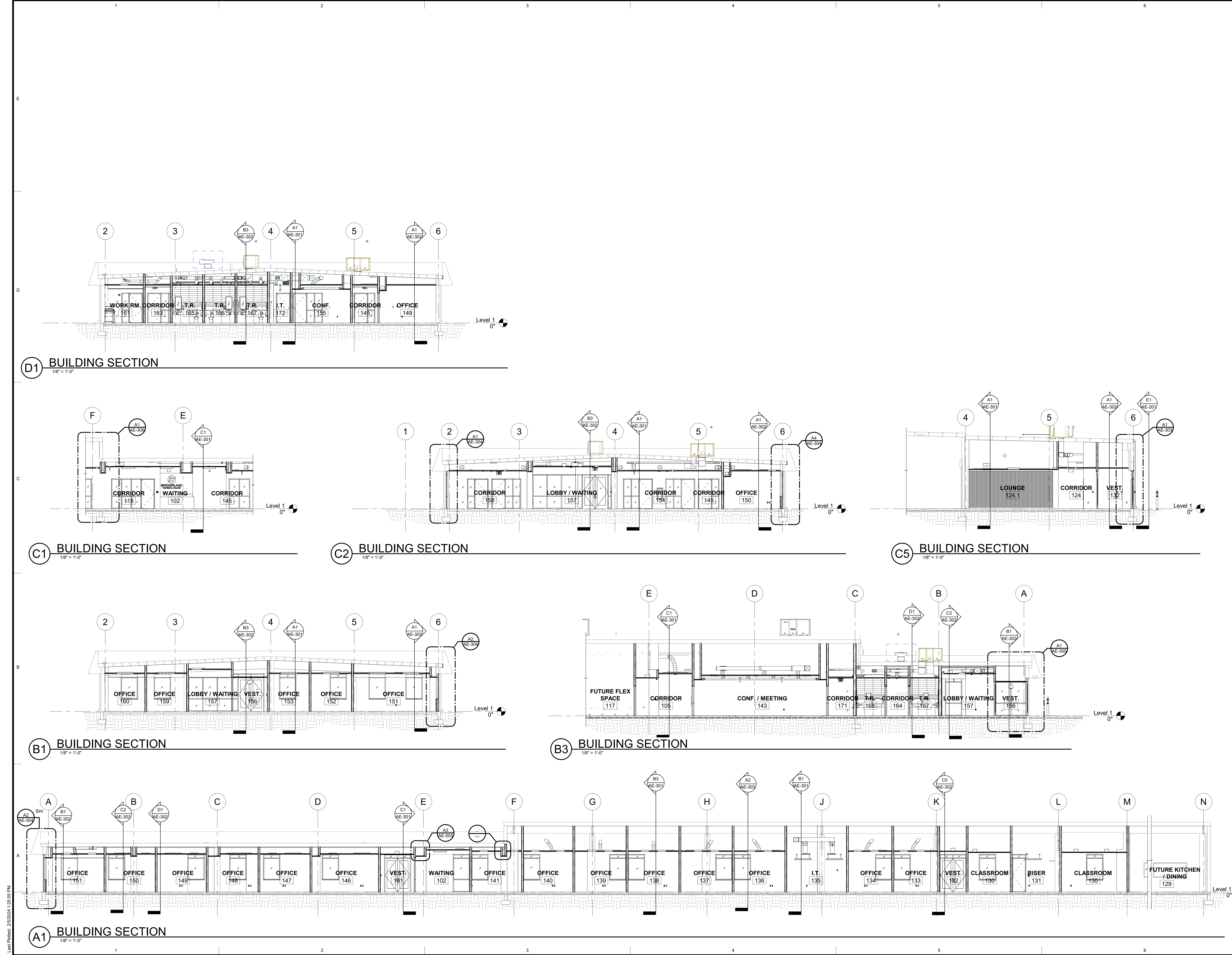
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SHEET TITLE:

**BUILDING  
 SECTIONS**

SHEET NUMBER:

**AE-302**



**D1 BUILDING SECTION**  
 1/8" = 1'-0"

**C1 BUILDING SECTION**  
 1/8" = 1'-0"

**C2 BUILDING SECTION**  
 1/8" = 1'-0"

**C5 BUILDING SECTION**  
 1/8" = 1'-0"

**B1 BUILDING SECTION**  
 1/8" = 1'-0"

**B3 BUILDING SECTION**  
 1/8" = 1'-0"

**A1 BUILDING SECTION**  
 1/8" = 1'-0"

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**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

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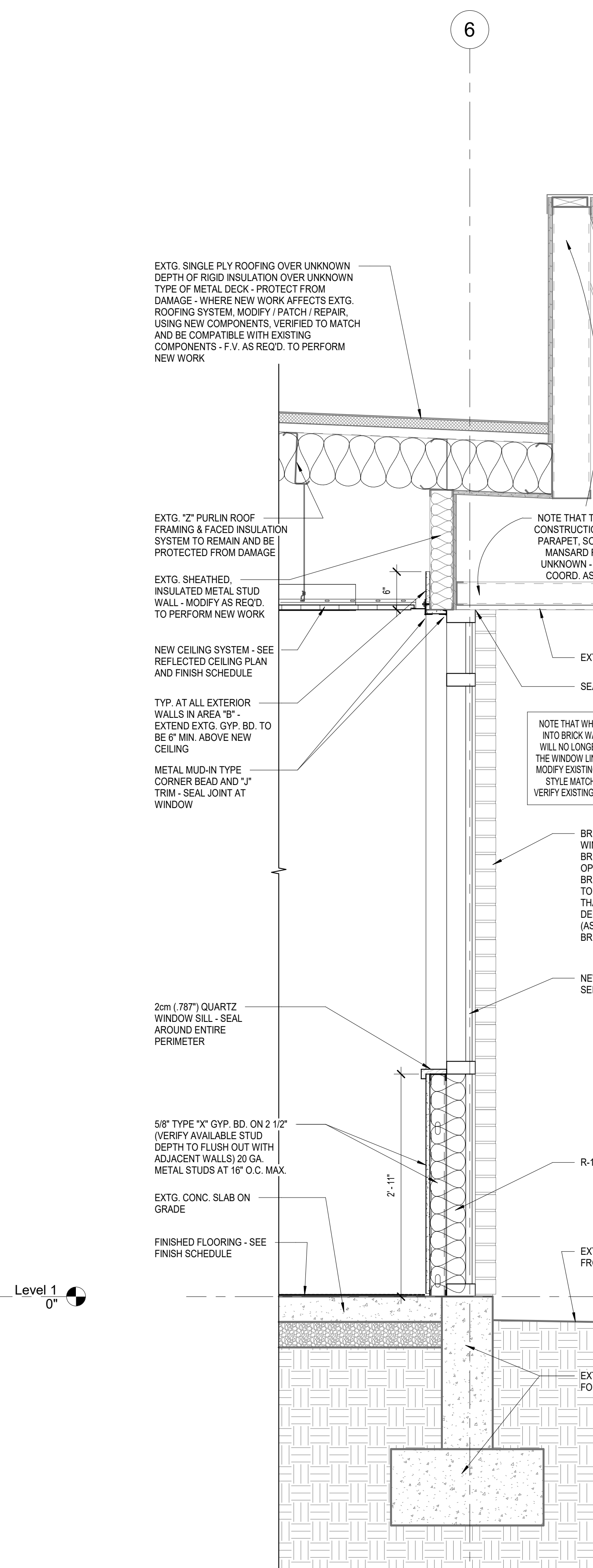
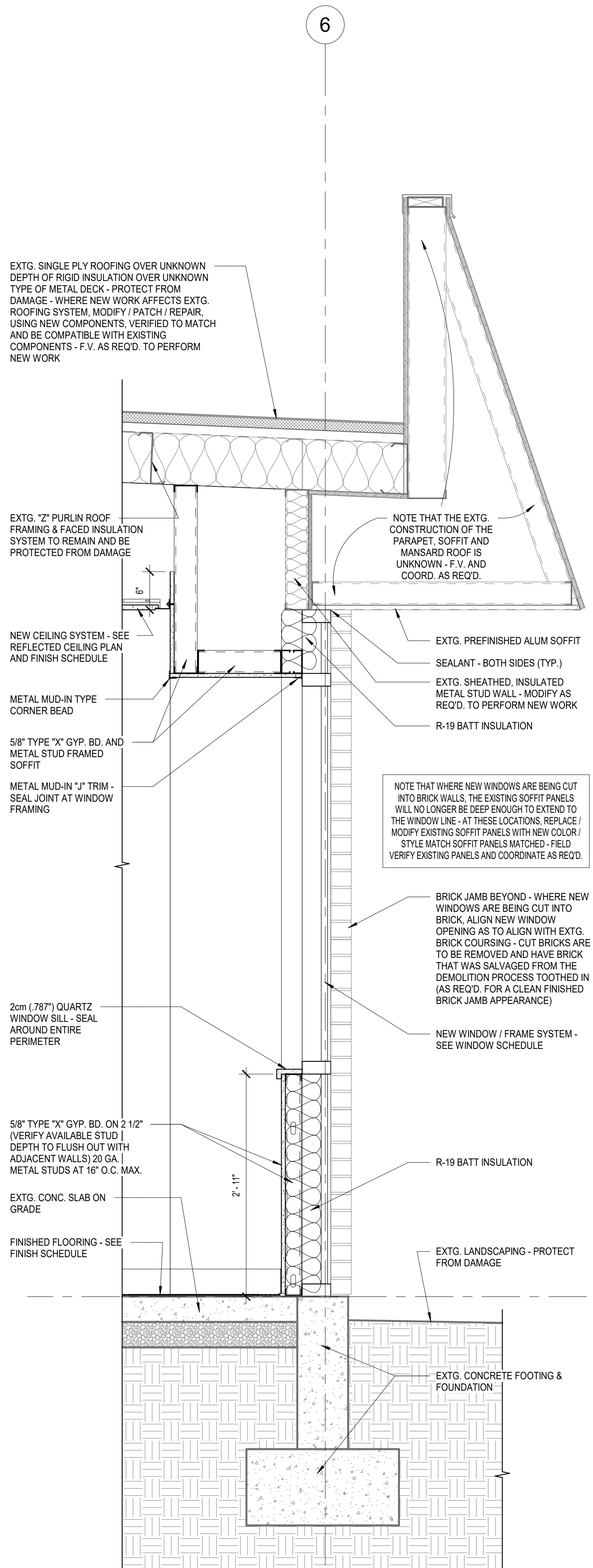
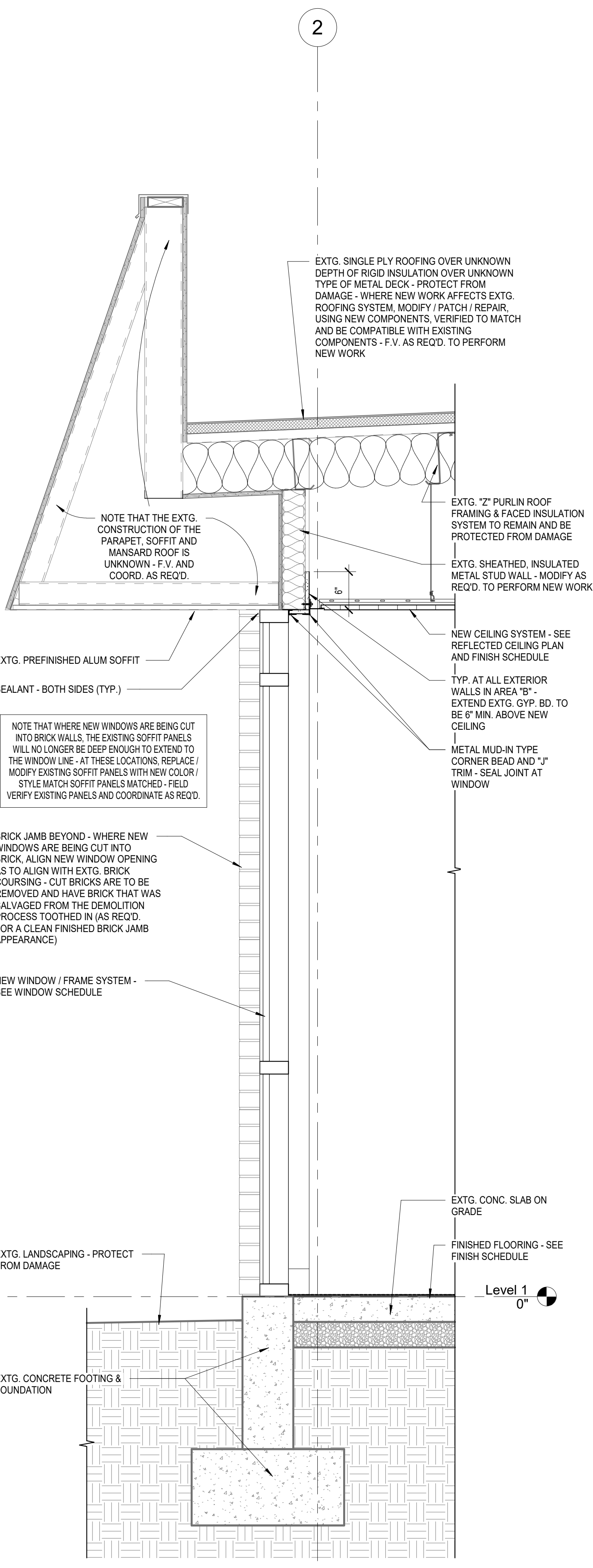
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SHEET TITLE:  
**WALL SECTIONS**

SHEET NUMBER:  
**AE-304**



**A1 @ NEW WINDOW - AREA "B"**  
 1" = 1'-0"

**A2 @ OFFICE WINDOW W/ SOFFIT - AREA "B"**  
 1" = 1'-0"

**A4 @ OFFICE WINDOWS - AREA "B"**  
 1" = 1'-0"

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**EXISTING CONDITIONS NOTE (TYPICAL):**  
 NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFY ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK

ARCHITECTS INFORMATION

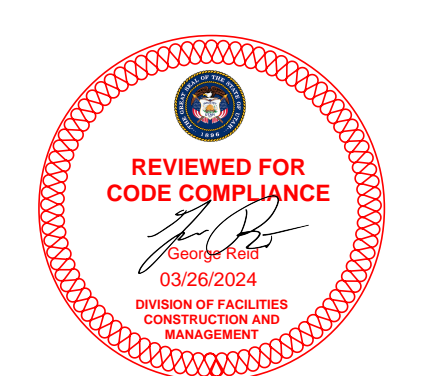


**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 T. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

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 TRANSCHILL BUILDING REMODEL**

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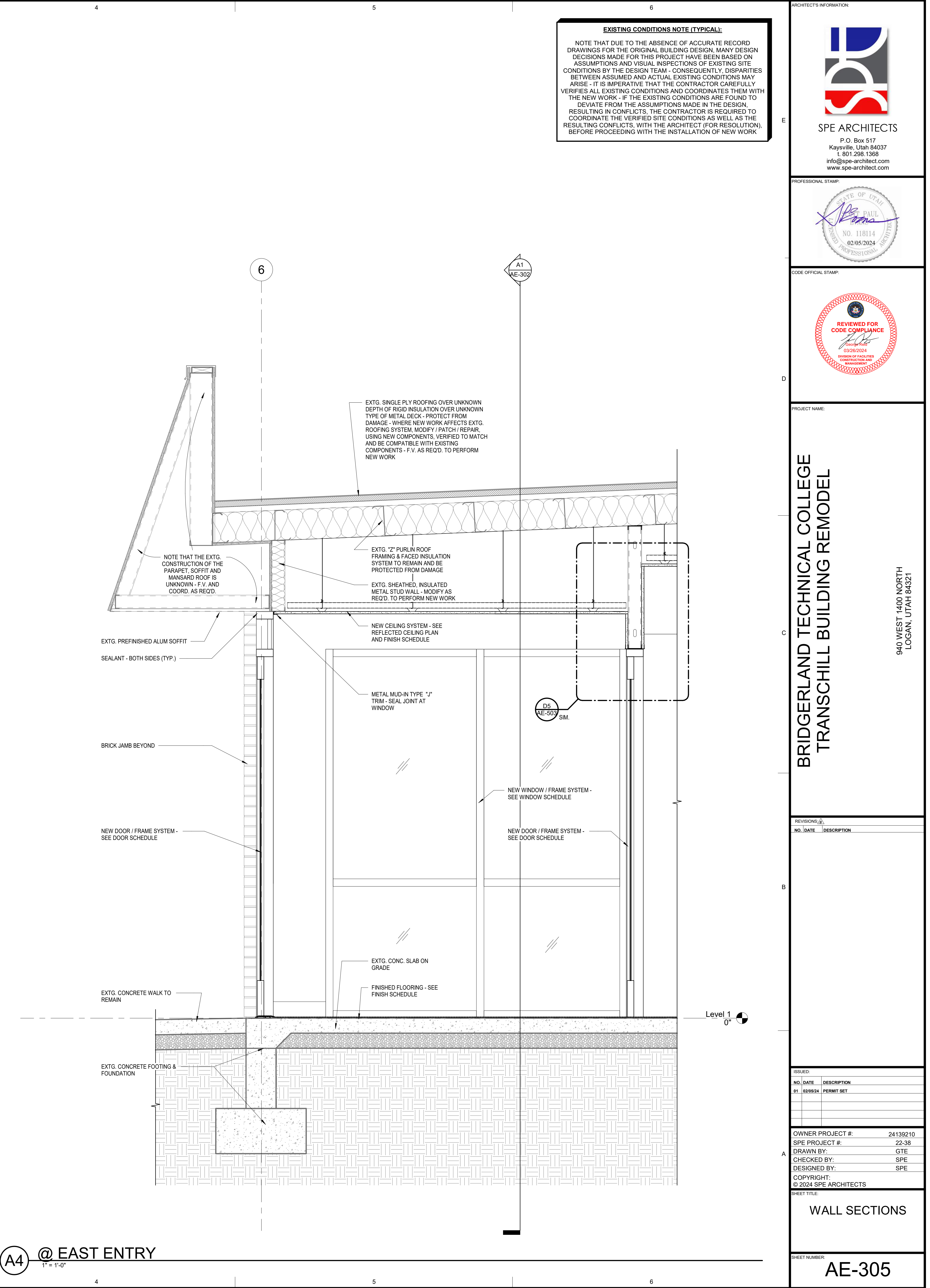
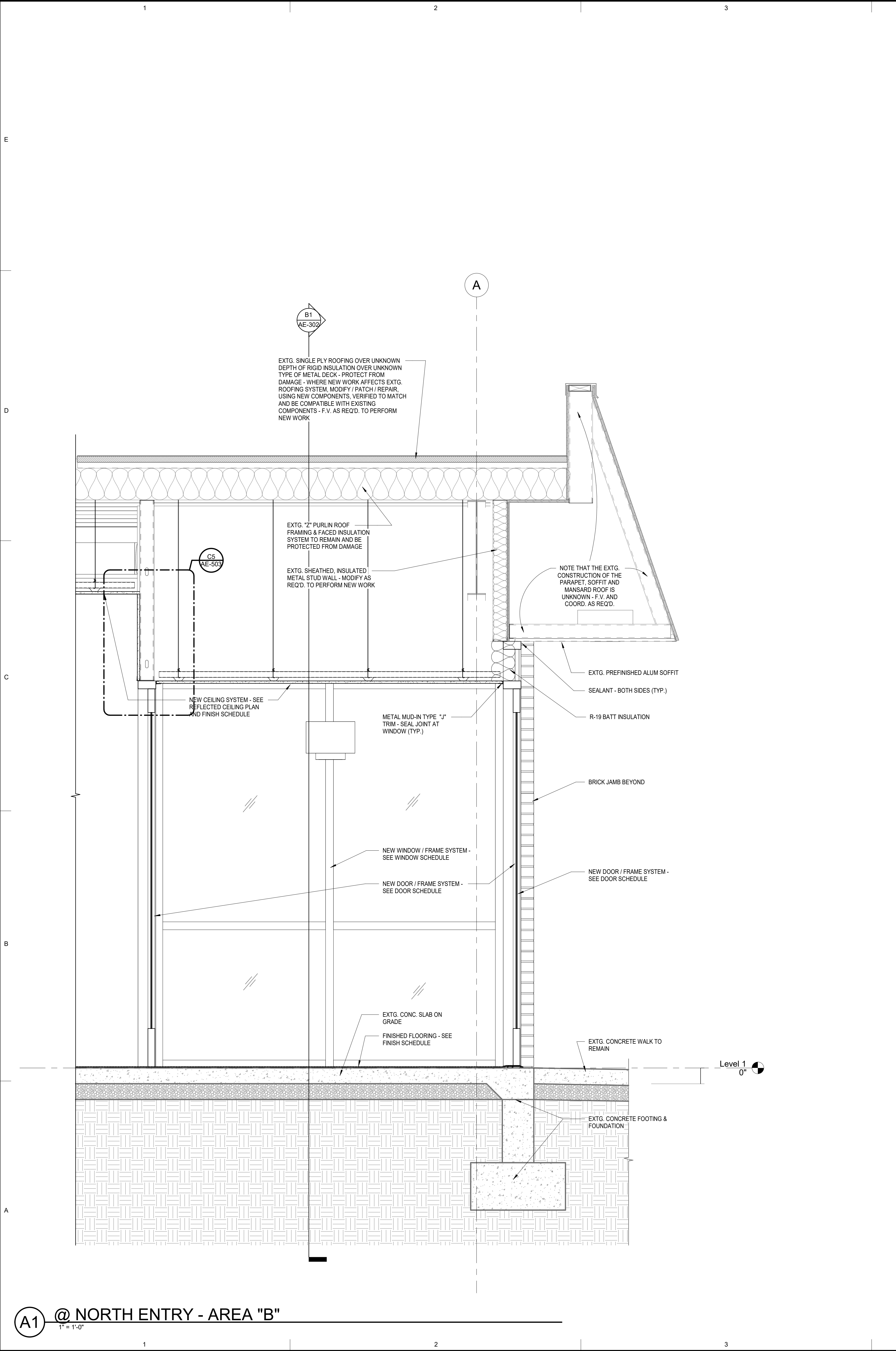
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OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: GTE  
 CHECKED BY: SPE  
 DESIGNED BY: SPE  
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SHEET TITLE:  
**WALL SECTIONS**

SHEET NUMBER:  
**AE-305**

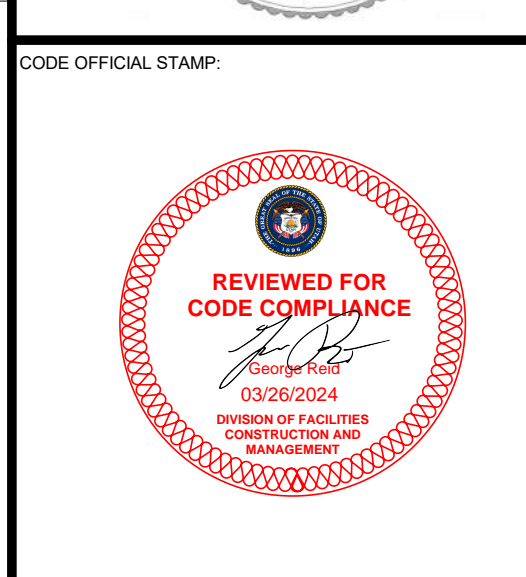
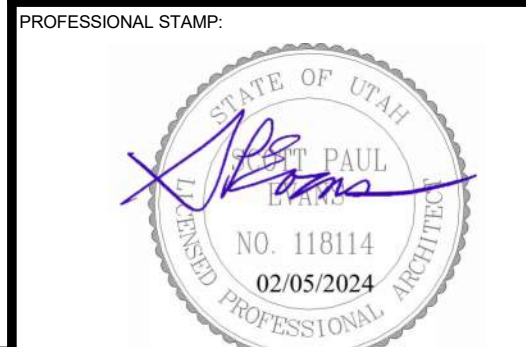


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**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com



PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

REVISIONS:

| NO. | DATE | DESCRIPTION |
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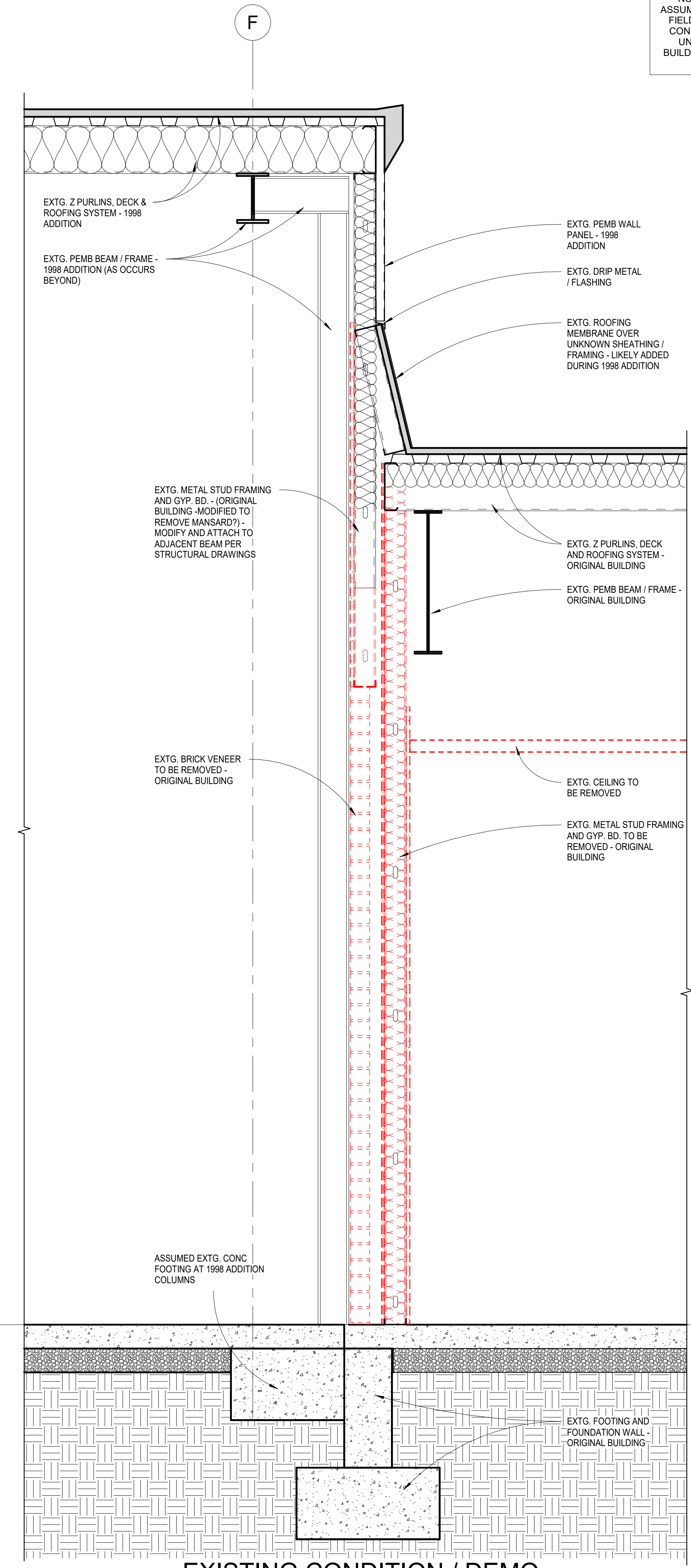
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| 01  | 02/05/24 | PERMIT SET  |

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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | GTE                   |
| CHECKED BY:      | SPE                   |
| DESIGNED BY:     | SPE                   |
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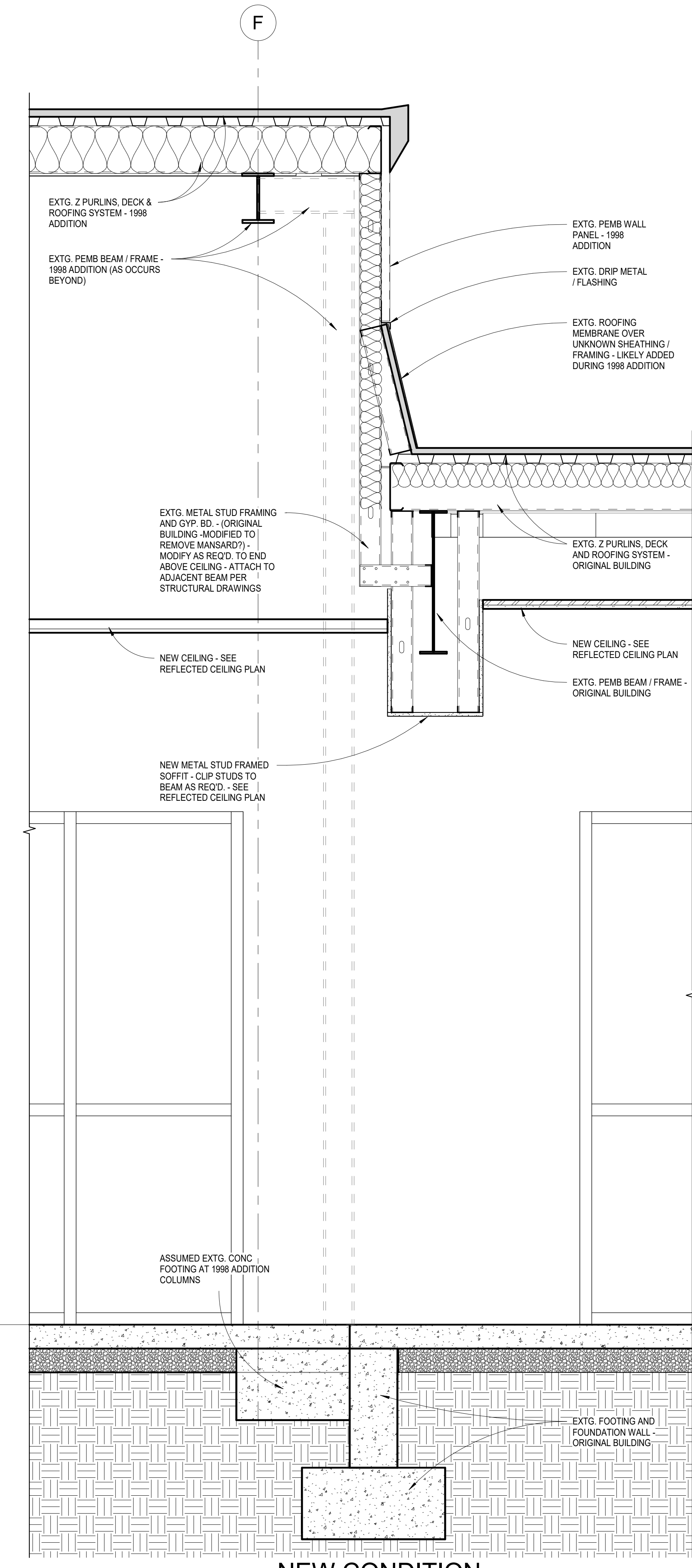
SHEET TITLE:  
**WALL SECTION**

SHEET NUMBER:  
**AE-306**

NOTE THAT EXISTING CONDITIONS ARE ASSUMED - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE ACCURACY OF EXISTING CONDITIONS PRIOR TO BEGINNING WORK - UNLESS NOTED OTHERWISE, EXISTING BUILDING ELEMENTS ARE TO REMAIN AND BE PROTECTED FROM DAMAGE



**EXISTING CONDITION / DEMO**

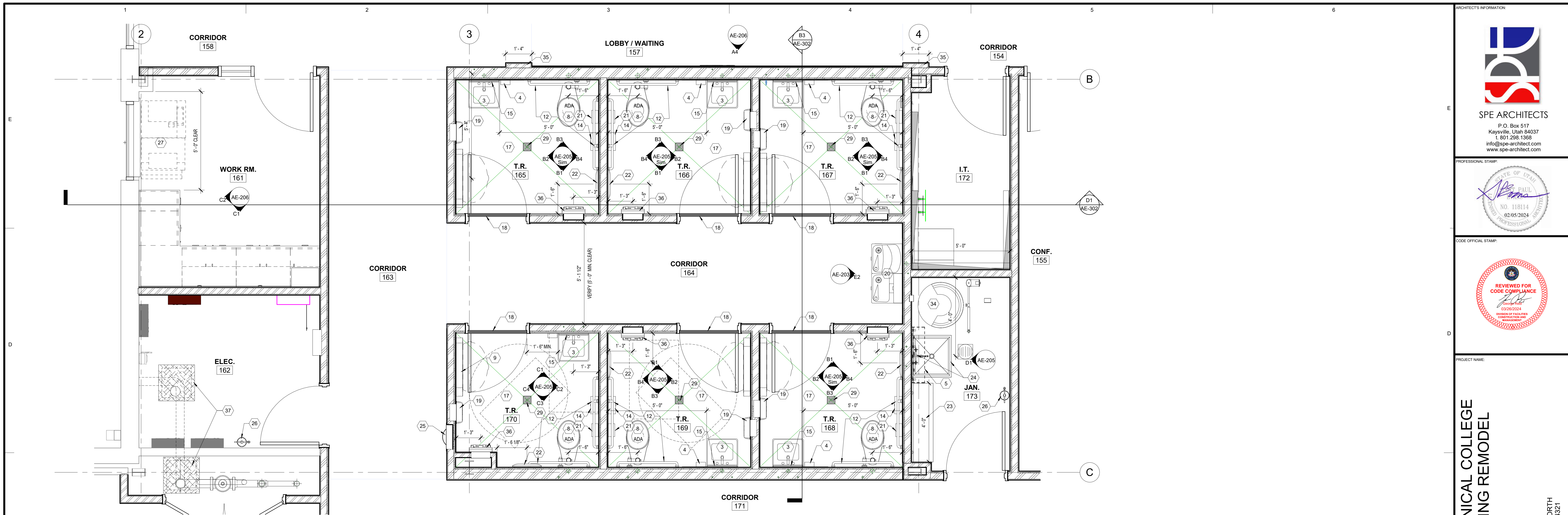


**NEW CONDITION**

**A1 SECTION @ GRID F - NEW VS. EXTG.**  
 1" = 1'-0"

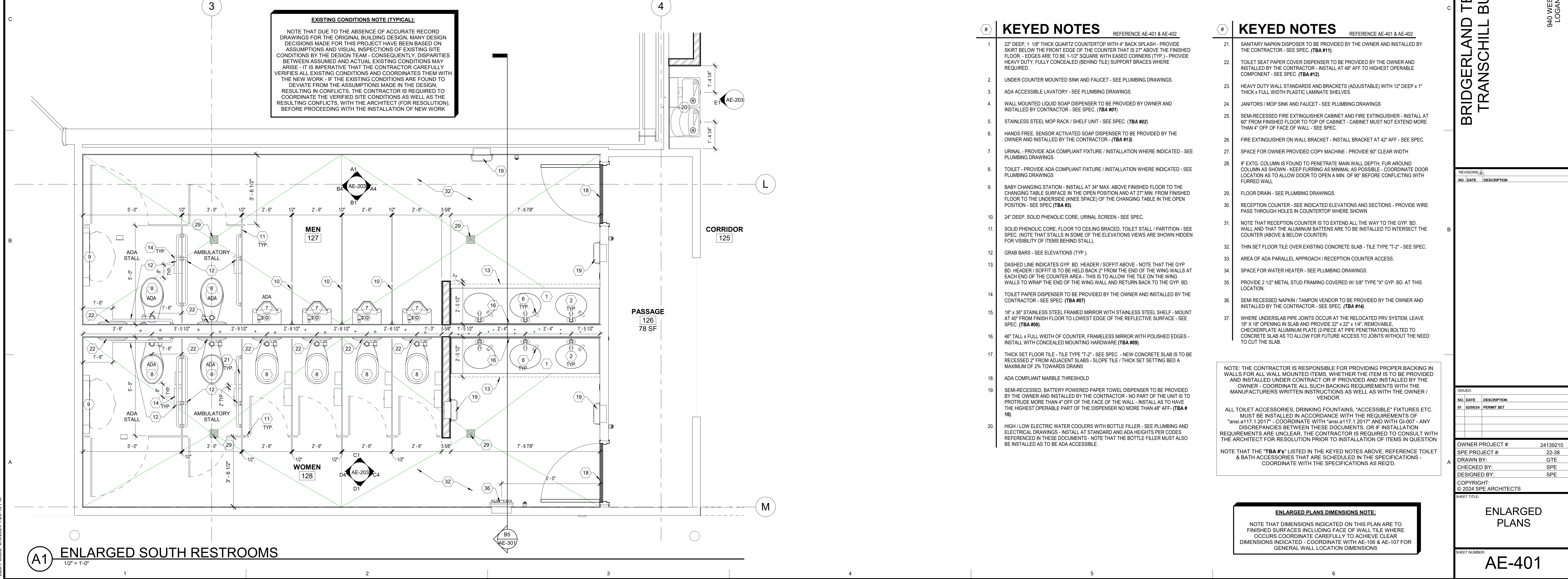
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**C1 ENLARGED NORTH RESTROOMS**  
1/2" = 1'-0"

**EXISTING CONDITIONS NOTE (TYPICAL):**  
NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM. CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK



**A1 ENLARGED SOUTH RESTROOMS**  
1/2" = 1'-0"

- KEYED NOTES** REFERENCE AE-401 & AE-402
- 22" DEEP, 1 1/8" THICK QUARTZ COUNTERTOP WITH 4" BACK SPLASH - PROVIDE SKIRT BELOW THE FRONT EDGE OF THE COUNTER THAT IS 2" ABOVE THE FINISHED FLOOR - EDGES ARE TO BE 1/2" SQUARE WITH EASED CORNERS (TYP) - PROVIDE HEAVY DUTY, FULLY CONCEALED (BEHIND TILE) SUPPORT BRACES WHERE REQUIRED.
  - UNDER COUNTER MOUNTED SINK AND FAUCET - SEE PLUMBING DRAWINGS.
  - ADA ACCESSIBLE LAVATORY - SEE PLUMBING DRAWINGS.
  - WALL MOUNTED LIQUID SOAP DISPENSER TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR - SEE SPEC. (TBA #01)
  - STAINLESS STEEL MOP RACK / SHELF UNIT - SEE SPEC. (TBA #02)
  - HANDS FREE, SENSOR ACTIVATED SOAP DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - (TBA #13)
  - URINAL - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
  - TOILET - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
  - BABY CHANGING STATION - INSTALL AT 34" MAX. ABOVE FINISHED FLOOR TO THE CHANGING TABLE SURFACE IN THE OPEN POSITION AND AT 27" MIN. FROM FINISHED FLOOR TO THE UNDERSIDE (KNEE SPACE) OF THE CHANGING TABLE IN THE OPEN POSITION - SEE SPEC. (TBA #05)
  - 24" DEEP, SOLID PHENOLIC CORE, URINAL SCREEN - SEE SPEC.
  - SOLID PHENOLIC CORE, FLOOR TO CEILING BRACED, TOILET STALL / PARTITION - SEE SPEC. (NOTE THAT STALLS IN SOME OF THE ELEVATIONS VIEWS ARE SHOWN HIDDEN FOR VISIBILITY OF ITEMS BEHIND STALL)
  - GRAB BARS - SEE ELEVATIONS (TYP).
  - DASHED LINE INDICATES GYP. BD. HEADER / SOFFIT ABOVE - NOTE THAT THE GYP. BD. HEADER / SOFFIT IS TO BE HELD BACK 2" FROM THE END OF THE WING WALLS AT EACH END OF THE COUNTER AREA - THIS IS TO ALLOW THE TILE ON THE WING WALLS TO WRAP THE END OF THE WING WALL AND RETURN BACK TO THE GYP. BD.
  - TOILET PAPER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #07)
  - 18" x 36" STAINLESS STEEL FRAMED MIRROR WITH STAINLESS STEEL SHELF - MOUNT AT 40" FROM FINISH FLOOR TO LOWEST EDGE OF THE REFLECTIVE SURFACE - SEE SPEC. (TBA #08)
  - 48" TALL x FULL WIDTH OF COUNTER, FRAMELESS MIRROR WITH POLISHED EDGES - INSTALL WITH CONCEALED MOUNTING HARDWARE (TBA #09)
  - THICK SET FLOOR TILE - TILE TYPE "T-2" - SEE SPEC. - NEW CONCRETE SLAB IS TO BE RECESSED 2" FROM ADJACENT SLABS - SLOPE TILE / THICK SET SETTING BED A MAXIMUM OF 2% TOWARDS DRAINS
  - ADA COMPLIANT MARBLE THRESHOLD
  - SEMI-RECESSED, BATTERY POWERED PAPER TOWEL DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - NO PART OF THE UNIT IS TO PROTRUDE MORE THAN 4" OFF OF THE FACE OF THE WALL - INSTALL AS TO HAVE THE HIGHEST OPERABLE PART OF THE DISPENSER NO MORE THAN 48" AFF. (TBA # 10)
  - HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS - NOTE THAT THE BOTTLE FILLER MUST ALSO BE INSTALLED AS TO BE ADA ACCESSIBLE.

- KEYED NOTES** REFERENCE AE-401 & AE-402
- SANITARY NAPKIN DISPOSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #11)
  - TOILET SEAT PAPER COVER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - INSTALL AT 48" AFF TO HIGHEST OPERABLE COMPONENT - SEE SPEC. (TBA #12)
  - HEAVY DUTY WALL STANDARDS AND BRACKETS (ADJUSTABLE) WITH 12" DEEP x 1" THICK x FULL WIDTH PLASTIC LAMINATE SHELVES.
  - JANITORS / MOP SINK AND FAUCET - SEE PLUMBING DRAWINGS
  - SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - INSTALL AT 60" FROM FINISHED FLOOR TO TOP OF CABINET - CABINET MUST NOT EXTEND MORE THAN 4" OFF OF FACE OF WALL - SEE SPEC.
  - FIRE EXTINGUISHER ON WALL BRACKET - INSTALL BRACKET AT 42" AFF - SEE SPEC.
  - SPACE FOR OWNER PROVIDED COPY MACHINE - PROVIDE 60" CLEAR WIDTH
  - IF EXTG. COLUMN IS FOUND TO PENETRATE MAIN WALL DEPTH, FUR AROUND COLUMN AS SHOWN - KEEP FURRING AS MINIMAL AS POSSIBLE - COORDINATE DOOR LOCATION AS TO ALLOW DOOR TO OPEN A MIN. OF 90° BEFORE CONFLICTING WITH FURRED WALL
  - FLOOR DRAIN - SEE PLUMBING DRAWINGS.
  - RECEPTION COUNTER - SEE INDICATED ELEVATIONS AND SECTIONS - PROVIDE WIRE PASS THROUGH HOLES IN COUNTERTOP WHERE SHOWN
  - NOTE THAT RECEPTION COUNTER IS TO EXTEND ALL THE WAY TO THE GYP. BD. WALL AND THAT THE ALUMINUM BATTENS ARE TO BE INSTALLED TO INTERSECT THE COUNTER (ABOVE & BELOW COUNTER)
  - THIN SET FLOOR TILE OVER EXISTING CONCRETE SLAB - TILE TYPE "T-2" - SEE SPEC.
  - AREA OF ADA PARALLEL APPROACH / RECEPTION COUNTER ACCESS.
  - SPACE FOR WATER HEATER - SEE PLUMBING DRAWINGS.
  - PROVIDE 2 1/2" METAL STUD FRAMING COVERED W/ 5/8" TYPE "X" GYP. BD. AT THIS LOCATION
  - SEMI RECESSED NAPKIN / TAMPON VENDOR TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #14)
  - WHERE UNDERSLAB PIPE JOINTS OCCUR AT THE RELOCATED PRV SYSTEM, LEAVE 18" x 18" OPENING IN SLAB AND PROVIDE 22" x 22" x 1/4" REMOVABLE CHECKERPLATE ALUMINUM PLATE (2-PIECE AT PIPE PENETRATION) BOLTED TO CONCRETE SLAB AS TO ALLOW FOR FUTURE ACCESS TO JOINTS WITHOUT THE NEED TO CUT THE SLAB.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER BACKING IN WALLS FOR ALL WALL MOUNTED ITEMS, WHETHER THE ITEM IS TO BE PROVIDED AND INSTALLED UNDER CONTRACT OR IF PROVIDED AND INSTALLED BY THE OWNER - COORDINATE ALL SUCH BACKING REQUIREMENTS WITH THE MANUFACTURERS' WRITTEN INSTRUCTIONS AS WELL AS WITH THE OWNER / VENDOR.

ALL TOILET ACCESSORIES, DRINKING FOUNTAINS, "ACCESSIBLE" FIXTURES ETC. MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF "ansi a117.1-2017" - COORDINATE WITH "ansi a117.1-2017" AND WITH GH007 - ANY DISCREPANCIES BETWEEN THESE DOCUMENTS, OR IF INSTALLATION REQUIREMENTS ARE UNCLEAR, THE CONTRACTOR IS REQUIRED TO CONSULT WITH THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF ITEMS IN QUESTION

NOTE THAT THE "TBA #s" LISTED IN THE KEYED NOTES ABOVE, REFERENCE TOILET & BATH ACCESSORIES THAT ARE SCHEDULED IN THE SPECIFICATIONS - COORDINATE WITH THE SPECIFICATIONS AS REQ'D.

**ENLARGED PLANS DIMENSIONS NOTE:**  
NOTE THAT DIMENSIONS INDICATED ON THIS PLAN ARE TO FINISHED SURFACES INCLUDING FACE OF WALL TILE WHERE OCCURS - COORDINATE CAREFULLY TO ACHIEVE CLEAR DIMENSIONS INDICATED - COORDINATE WITH AE-108 & AE-107 FOR GENERAL WALL LOCATION DIMENSIONS

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

**PROFESSIONAL STAMP**  
STATE OF UTAH  
ARCHITECT  
No. 118114  
02/05/2024

**CODE OFFICIAL STAMP**  
REVIEWED FOR CODE COMPLIANCE  
03/26/2024  
WWW.SPE-ARCHITECT.COM

**PROJECT NAME:**  
BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**REVISIONS:**

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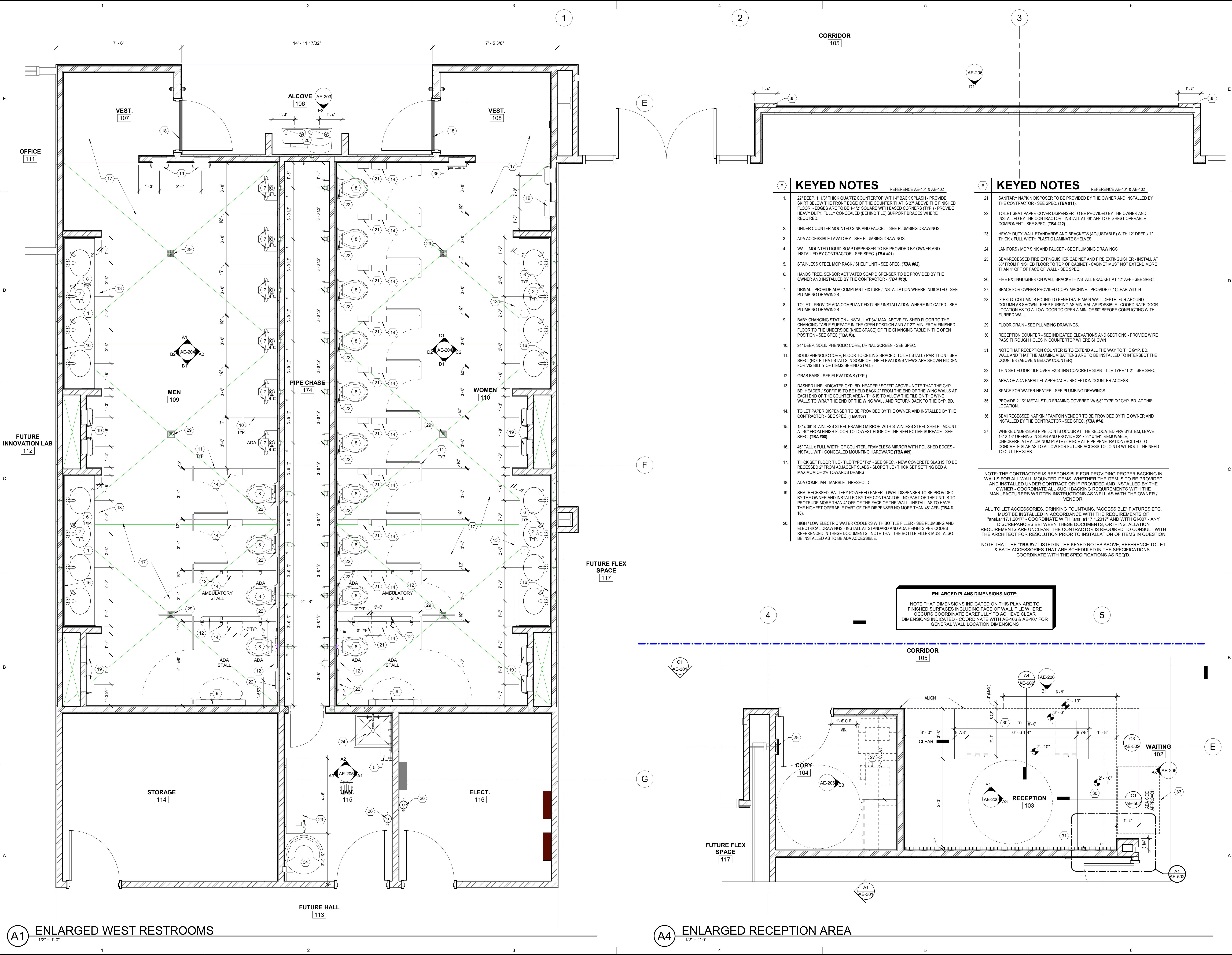
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**OWNER PROJECT #:** 24139210  
**SPE PROJECT #:** 22-38  
**DRAWN BY:** GTE  
**CHECKED BY:** SPE  
**DESIGNED BY:** SPE  
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**ENLARGED PLANS**

**SHEET NUMBER:** AE-401





- KEYED NOTES** REFERENCE AE-401 & AE-402
- 22" DEEP, 1 1/8" THICK QUARTZ COUNTERTOP WITH 4" BACK SPLASH - PROVIDE SKIRT BELOW THE FRONT EDGE OF THE COUNTERTOP THAT IS 2" ABOVE THE FINISHED FLOOR - EDGES ARE TO BE 1-1/2" SQUARE WITH EASED CORNERS (TYP.) - PROVIDE HEAVY DUTY, FULLY CONCEALED (BEHIND TILE) SUPPORT BRACES WHERE REQUIRED.
  - UNDER COUNTER MOUNTED SINK AND FAUCET - SEE PLUMBING DRAWINGS.
  - ADA ACCESSIBLE LAVATORY - SEE PLUMBING DRAWINGS.
  - WALL MOUNTED LIQUID SOAP DISPENSER TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR - SEE SPEC. (TBA #01)
  - STAINLESS STEEL MOP RACK / SHELF UNIT - SEE SPEC. (TBA #02)
  - HANDS FREE, SENSOR ACTIVATED SOAP DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - (TBA #13)
  - URINAL - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
  - TOILET - PROVIDE ADA COMPLIANT FIXTURE / INSTALLATION WHERE INDICATED - SEE PLUMBING DRAWINGS.
  - BABY CHANGING STATION - INSTALL AT 34" MAX. ABOVE FINISHED FLOOR TO THE CHANGING TABLE SURFACE IN THE OPEN POSITION AND AT 27" MIN. FROM FINISHED FLOOR TO THE UNDERSIDE (KNEE SPACE) OF THE CHANGING TABLE IN THE OPEN POSITION - SEE SPEC (TBA #5)
  - 24" DEEP, SOLID PHENOLIC CORE, URINAL SCREEN - SEE SPEC.
  - SOLID PHENOLIC CORE, FLOOR TO CEILING BRACED, TOILET STALL / PARTITION - SEE SPEC. (NOTE THAT STALLS IN SOME OF THE ELEVATIONS VIEWS ARE SHOWN HIDDEN FOR VISIBILITY OF ITEMS BEHIND STALL)
  - GRAB BARS - SEE ELEVATIONS (TYP.).
  - DASHED LINE INDICATES GYP. BD. HEADER / SOFFIT ABOVE - NOTE THAT THE GYP. BD. HEADER / SOFFIT IS TO BE HELD BACK 2" FROM THE END OF THE WING WALLS AT EACH END OF THE COUNTER AREA - THIS IS TO ALLOW THE TILE ON THE WING WALLS TO WRAP THE END OF THE WING WALL AND RETURN BACK TO THE GYP. BD.
  - TOILET PAPER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #07)
  - 18" x 36" STAINLESS STEEL FRAMED MIRROR WITH STAINLESS STEEL SHELF - MOUNT AT 45" FROM FINISH FLOOR TO LOWEST EDGE OF THE REFLECTIVE SURFACE - SEE SPEC. (TBA #08)
  - 48" TALL x FULL WIDTH OF COUNTER, FRAMELESS MIRROR WITH POLISHED EDGES - INSTALL WITH CONCEALED MOUNTING HARDWARE (TBA #09)
  - THICK SET FLOOR TILE - TILE TYPE "T-2". SEE SPEC. - NEW CONCRETE SLAB IS TO BE RECESSED 2" FROM ADJACENT SLABS - SLOPE TILE / THICK SET SETTING BED A MAXIMUM OF 2% TOWARDS DRAINS
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  - HIGH / LOW ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLUMBING AND ELECTRICAL DRAWINGS - INSTALL AT STANDARD AND ADA HEIGHTS PER CODES REFERENCED IN THESE DOCUMENTS - NOTE THAT THE BOTTLE FILLER MUST ALSO BE INSTALLED AS TO BE ADA ACCESSIBLE.

- KEYED NOTES** REFERENCE AE-401 & AE-402
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  - TOILET SEAT PAPER COVER DISPENSER TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - INSTALL AT 48" AFF TO HIGHEST OPERABLE COMPONENT - SEE SPEC. (TBA #12)
  - HEAVY DUTY WALL STANDARDS AND BRACKETS (ADJUSTABLE) WITH 12" DEEP x 1" THICK x FULL WIDTH PLASTIC LAMINATE SHELVES.
  - JANITORS / MOP SINK AND FAUCET - SEE PLUMBING DRAWINGS
  - SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - INSTALL AT 60" FROM FINISHED FLOOR TO TOP OF CABINET - CABINET MUST NOT EXTEND MORE THAN 4" OFF OF FACE OF WALL - SEE SPEC.
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  - THIN SET FLOOR TILE OVER EXISTING CONCRETE SLAB - TILE TYPE "T-2" - SEE SPEC.
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  - SPACE FOR WATER HEATER - SEE PLUMBING DRAWINGS.
  - PROVIDE 2 1/2" METAL STUD FRAMING COVERED W/ 5/8" TYPE "X" GYP. BD. AT THIS LOCATION.
  - SEMI RECESSED NAPKIN / TAMPON VENDOR TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR - SEE SPEC. (TBA #14)
  - WHERE UNDERSLAB PIPE JOINTS OCCUR AT THE RELOCATED PRV SYSTEM, LEAVE 18" x 18" OPENING IN SLAB AND PROVIDE 22" x 22" x 1/4" REMOVABLE, CHECKERPLATE ALUMINUM PLATE (2PIECE AT PIPE PENETRATION) BOLTED TO CONCRETE SLAB AS TO ALLOW FOR FUTURE ACCESS TO JOINTS WITHOUT THE NEED TO CUT THE SLAB.
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- NOTE THAT THE "TBA #s" LISTED IN THE KEYED NOTES ABOVE, REFERENCE TOILET & BATH ACCESSORIES THAT ARE SCHEDULED IN THE SPECIFICATIONS - COORDINATE WITH THE SPECIFICATIONS AS REQD.

**ENLARGED PLANS DIMENSIONS NOTE:**

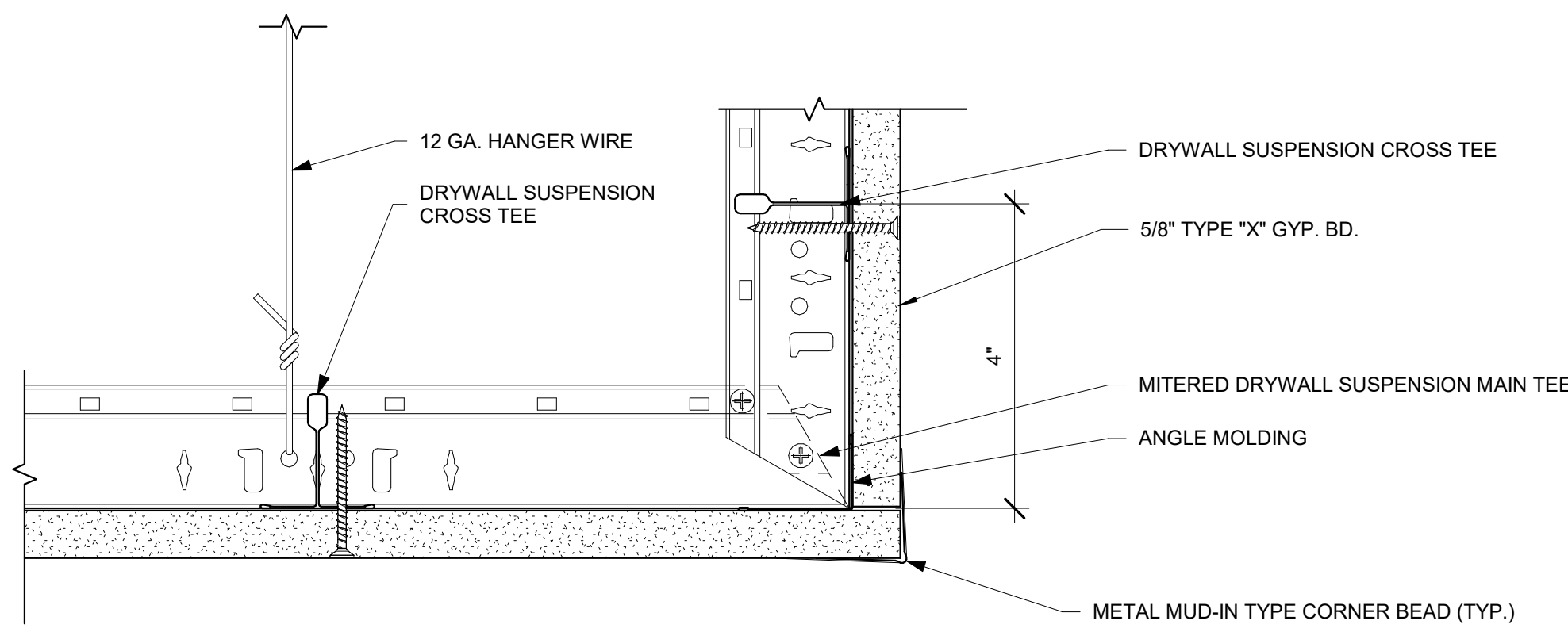
NOTE THAT DIMENSIONS INDICATED ON THIS PLAN ARE TO FINISHED SURFACES INCLUDING FACE OF WALL TILE WHERE OCCURS COORDINATE CAREFULLY TO ACHIEVE CLEAR DIMENSIONS INDICATED - COORDINATE WITH AE-106 & AE-107 FOR GENERAL WALL LOCATION DIMENSIONS

**A1 ENLARGED WEST RESTROOMS**  
 1/2" = 1'-0"

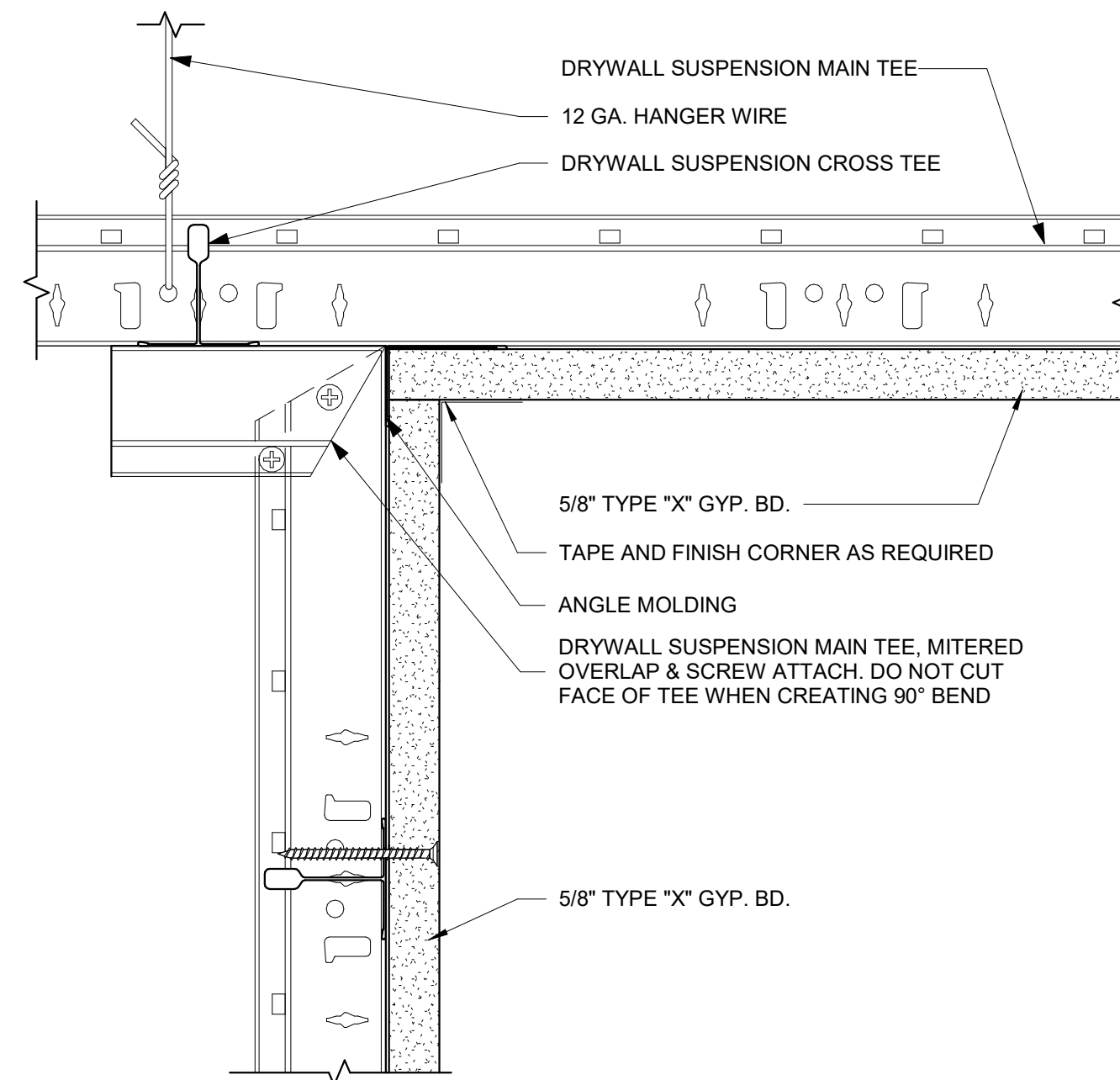
**A4 ENLARGED RECEPTION AREA**  
 1/2" = 1'-0"

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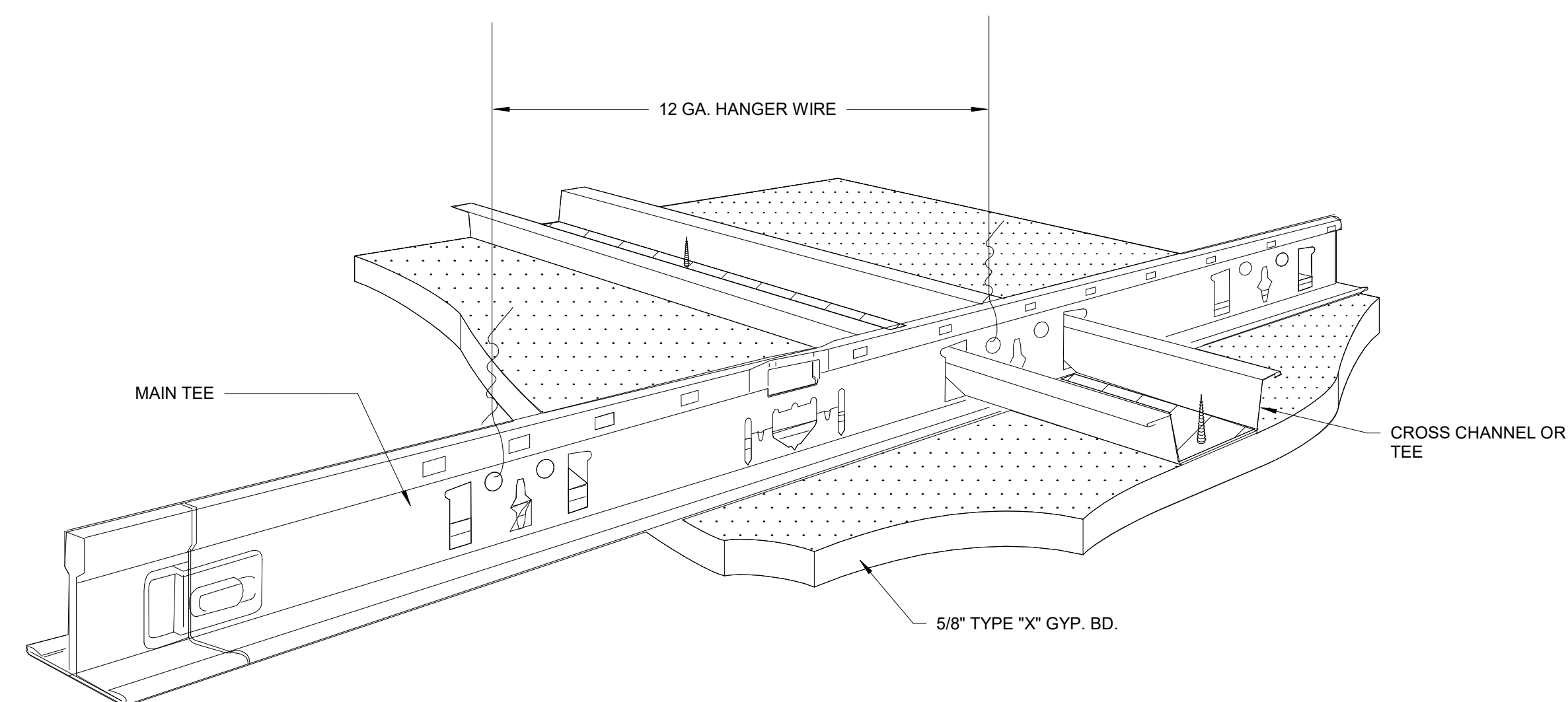




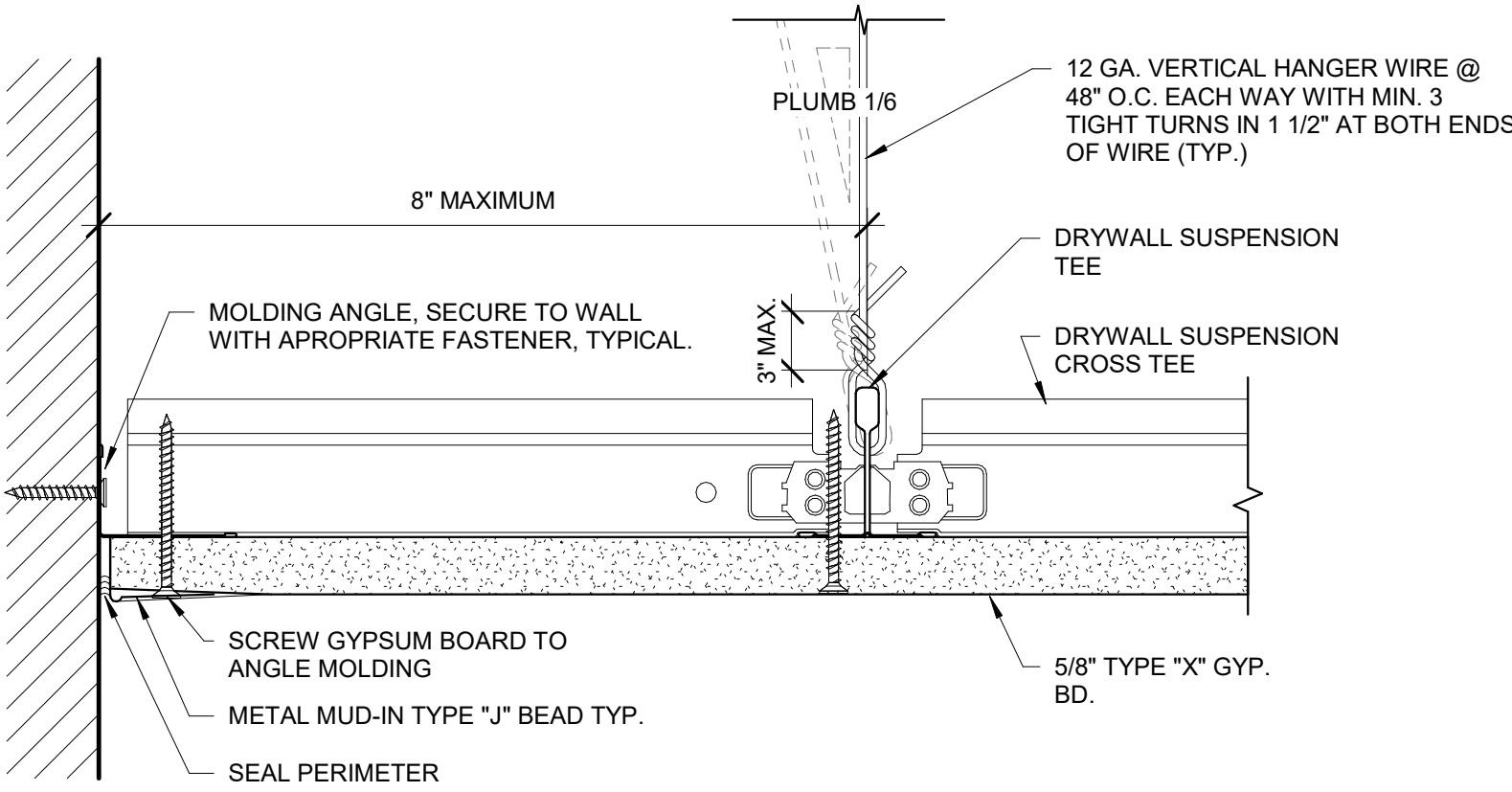
**E1** GYP. BD. CEILING - OUTSIDE CORNER  
6" = 1'-0"



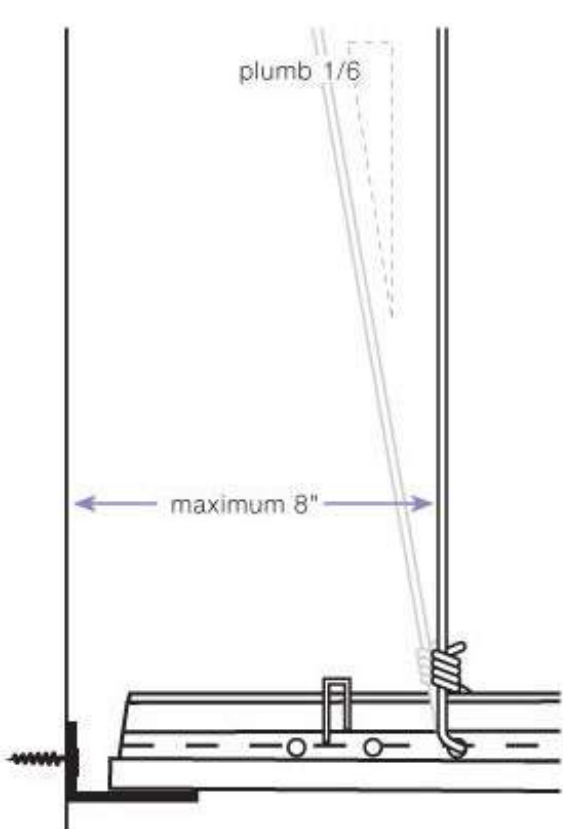
**D2** GYP. BD. CEILING - INSIDE CORNER  
6" = 1'-0"



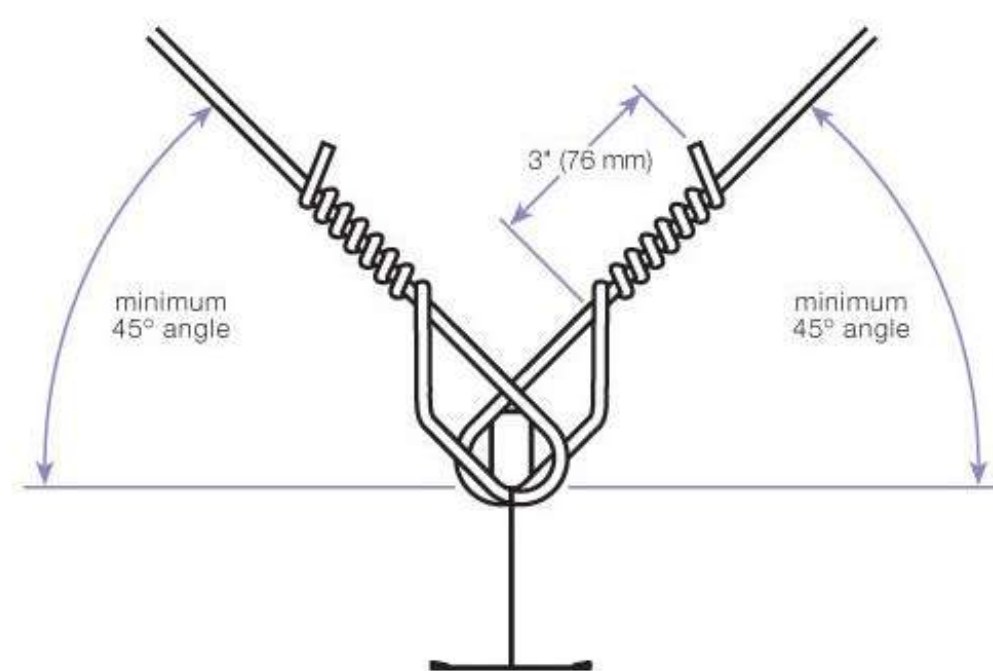
**D4** GYP. BD. - CEILING CROSS CHANNEL 1  
1 1/2" = 1'-0"



**D1** GYP. BD. - CROSS TEE @ PERIMETER WALL  
6" = 1'-0"

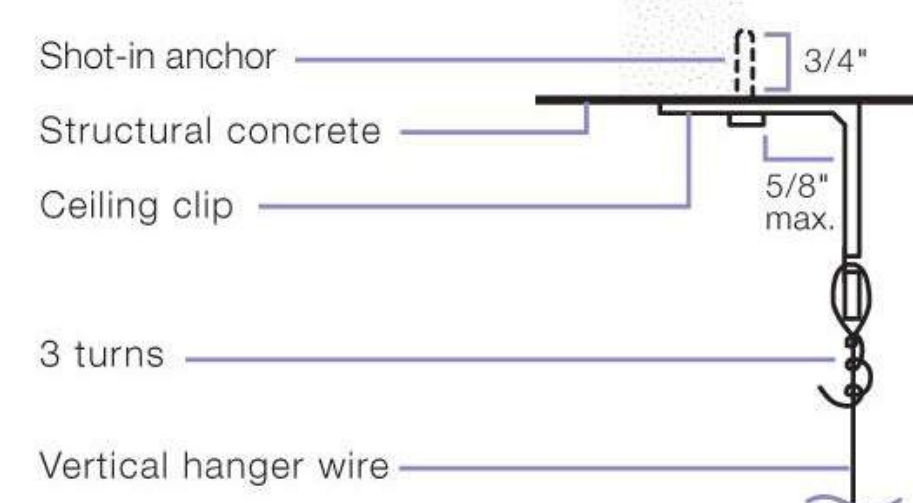


**C1** HANGER SUSPENSION WIRES  
12" = 1'-0"

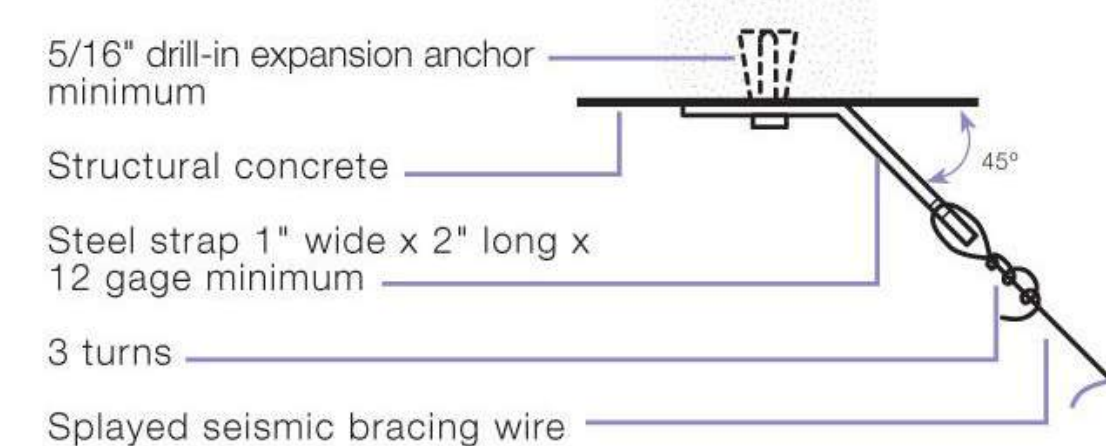


**C3** WIRE ATTACHMENTS  
12" = 1'-0"

**Vertical hanger wire attachment**



**Splayed seismic bracing wire attachment**

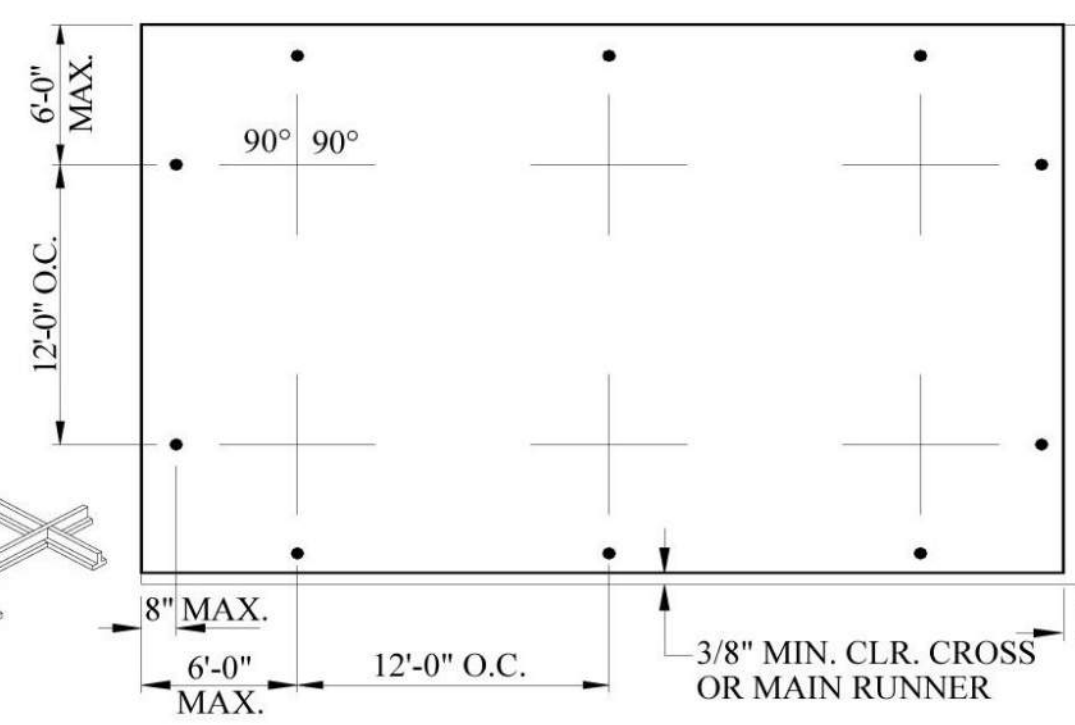


VERTICAL STRUT AT 12" O.C. EACH WAY WITH FIRST POINT TO BE WITHIN 6" FROM EACH WALL FASTENED TO MAIN RUNNER & STRUCTURE ABOVE PER ASTM C636 AND ASTM E580

12 GA. VERTICAL HANGER WIRE AT 4'-0" EACH WAY WITH MIN. 3 TIGHT TURNS IN 1-1/2" AT BOTH ENDS OF WIRE (TYP.)

12 GA. BRACING WIRE WITH MIN. 4 TIGHT TURNS IN 1-1/2" AT BOTH ENDS OF WIRE (TYP.) AT EA. VERTICAL STRUT.

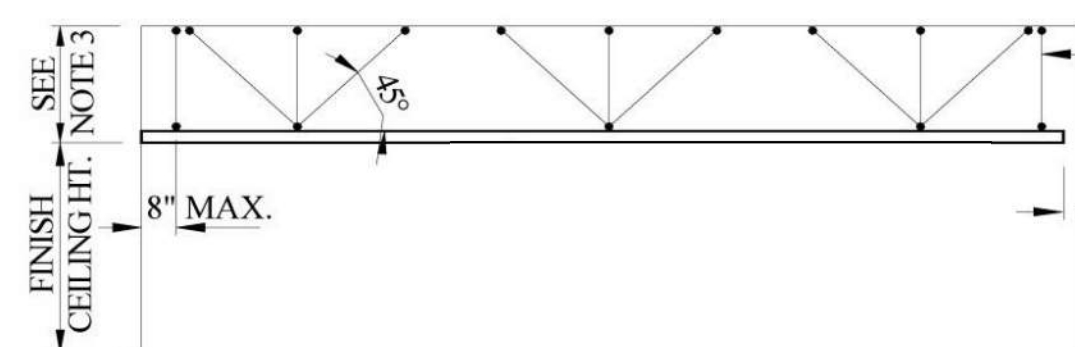
CROSS RUNNERS  
MAIN RUNNERS



**REFLECTED CEILING PLAN**

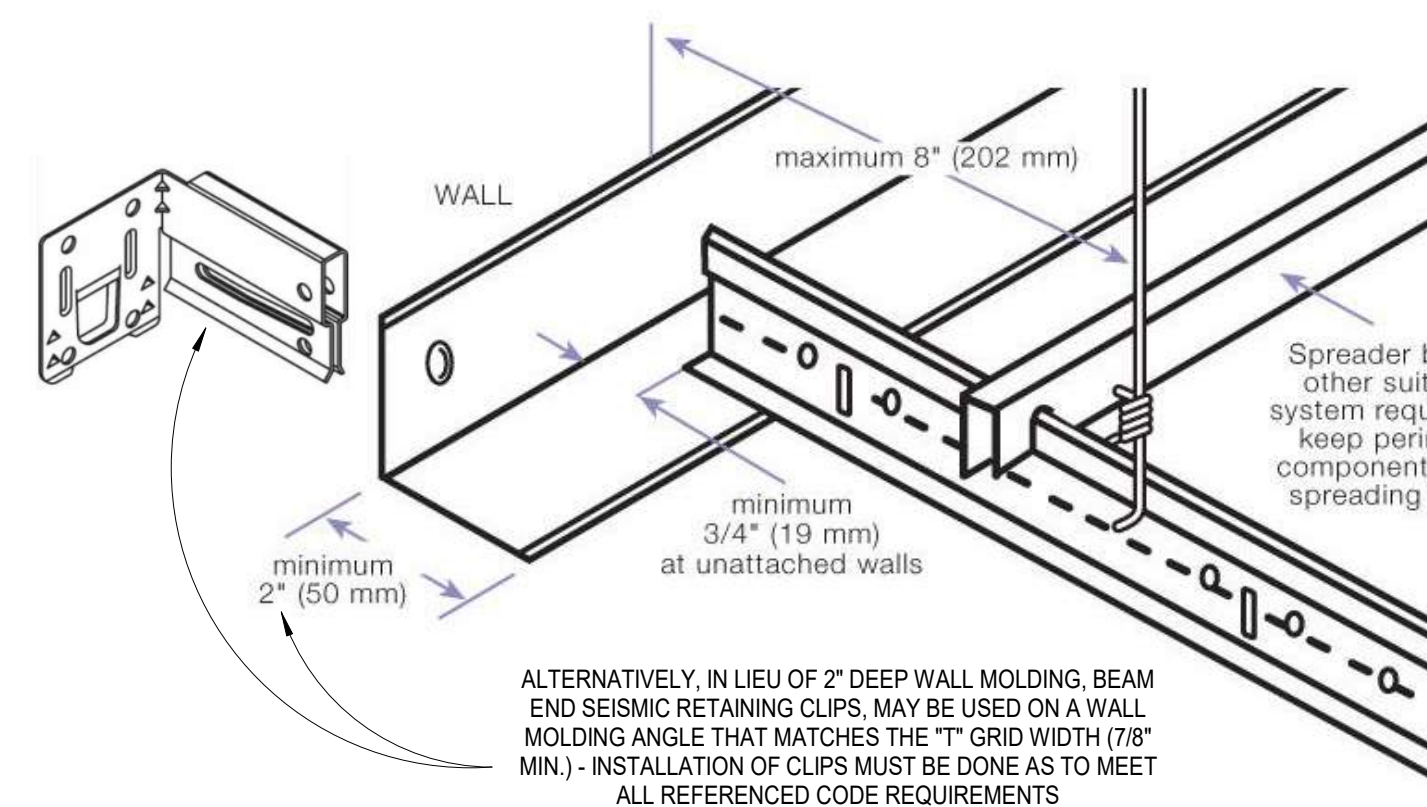
**NOTE:**

- BRACING WIRES SECURED TO MAIN RUNNERS WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.
- FOR ROOMS WITH SPAN IN EITHER DIRECTION LESS THAN 25', MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER OF TWO ADJACENT WALLS WITH 3/8" CLEARANCE BETWEEN THE RUNNERS AND THE OTHER TWO WALLS. WHERE SPAN OF THE CEILING SYSTEM BETWEEN PERIMETER WALLS EXCEEDS 25' IN BOTH DIRECTIONS, A MINIMUM WALL ANGLE SIZE OF AT LEAST 2" HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITION. THE FIRST TILE SHALL BE 3/4" CLEAR FROM WALL SURFACE.
- WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4", THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2' O.C. ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVICING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.

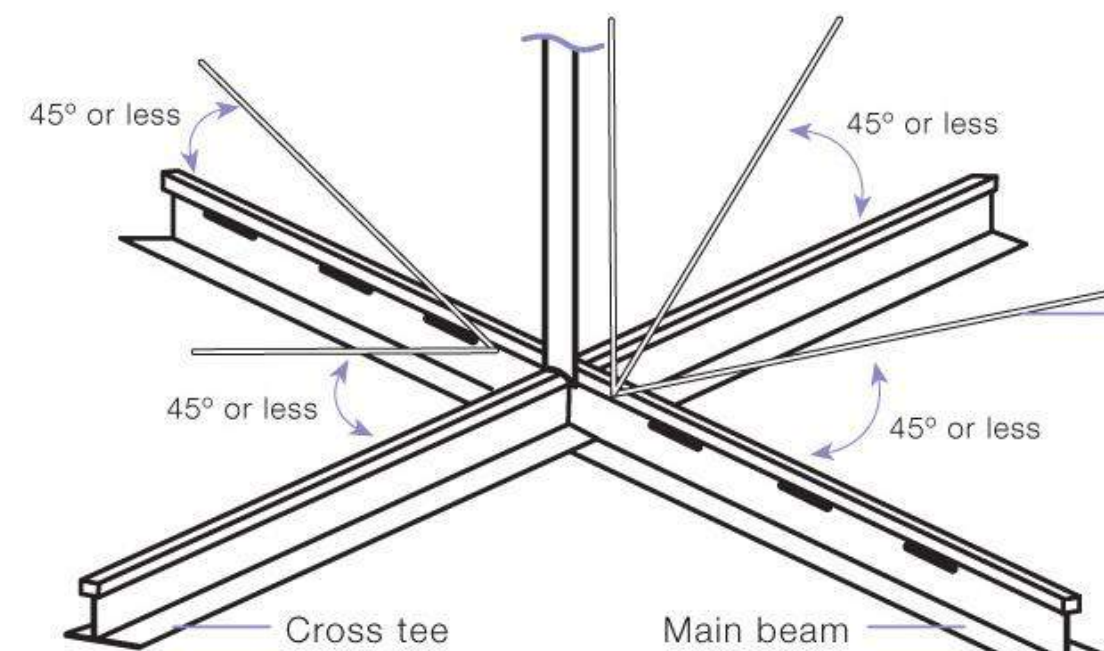


**SECTION THRU ROOM**

NO. 12 GA. MIN. VERTICAL HANGER WIRE. SEE NOTE 3.  
3/8" AT TWO ADJACENT WALLS OR 3/4" AT ALL FOUR WALLS. SEE NOTE 2.

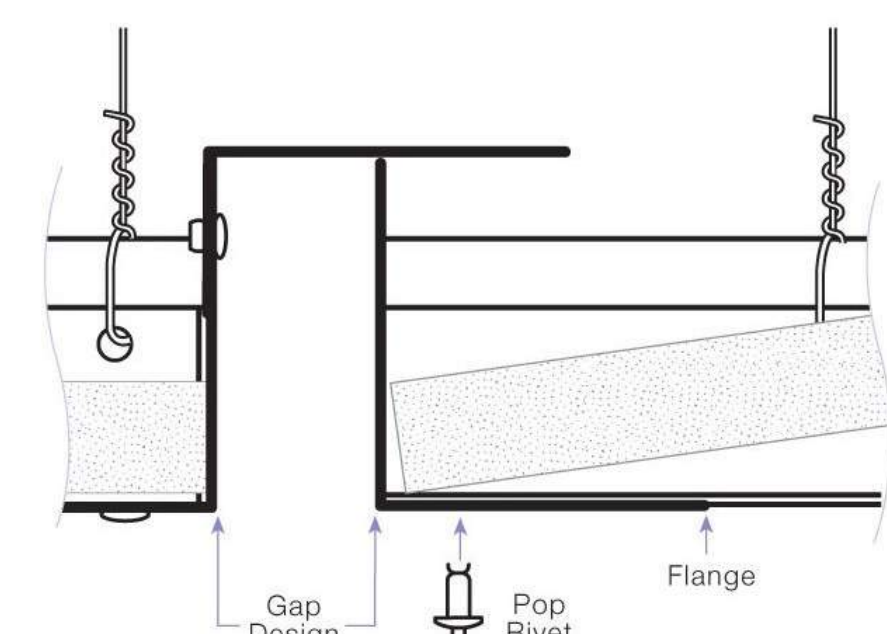


**B3** WALL MOLDING REQUIREMENTS  
12" = 1'-0"



**A3** LATERAL FORCE BRACING  
12" = 1'-0"

**B5** WIRE TIE  
12" = 1'-0"



**A5** SEISMIC SEPARATION JOINTS  
12" = 1'-0"

**TYPICAL SUSPENDED CEILING VERTICAL & LATERAL SUPPORT**

**A1** TYP. SUSPENDED CEILING & LATERAL SUPPORT  
12" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

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**SHEET TITLE:**  
**TYPICAL CEILING DETAILS**

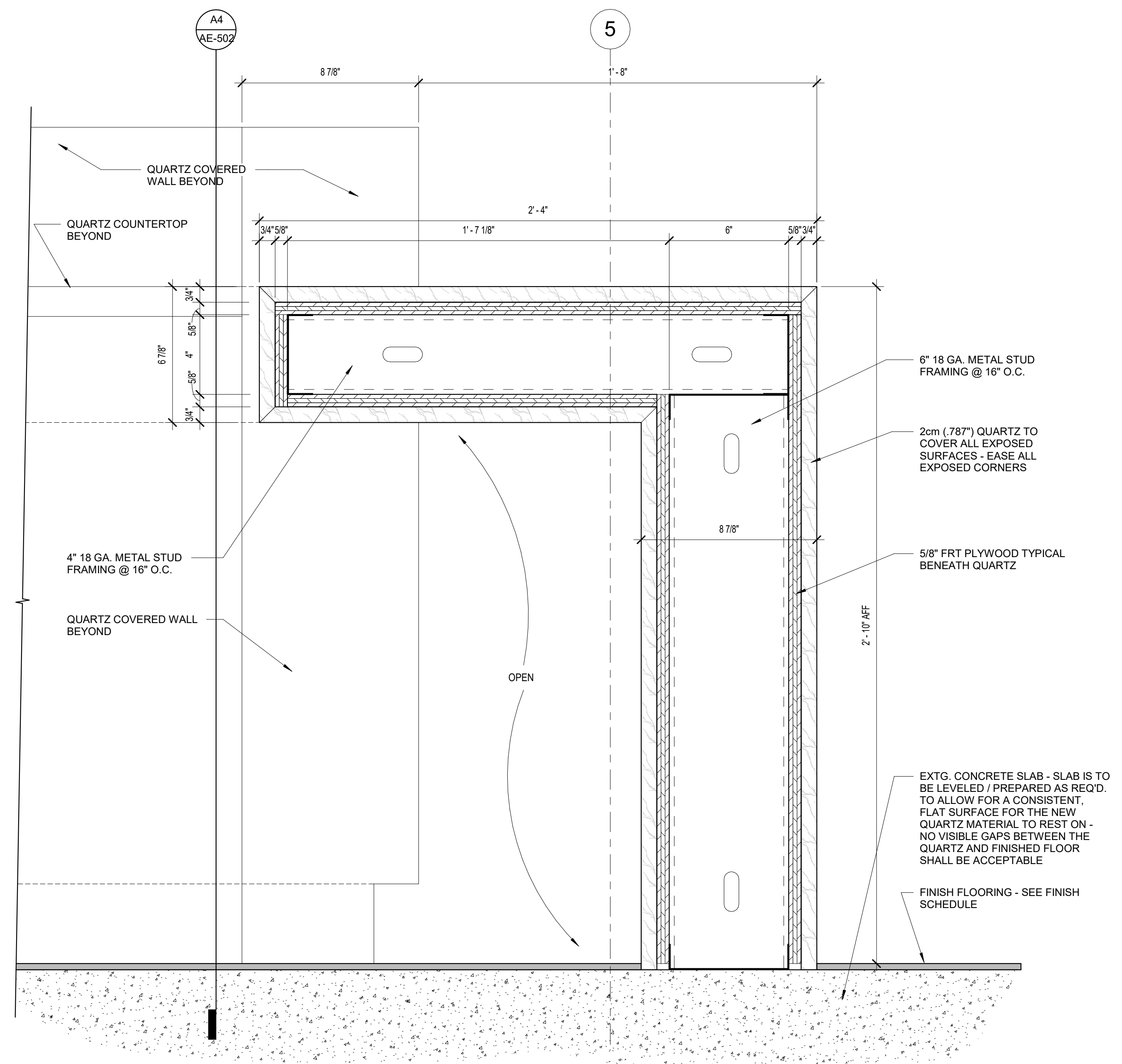
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**AE-501**

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

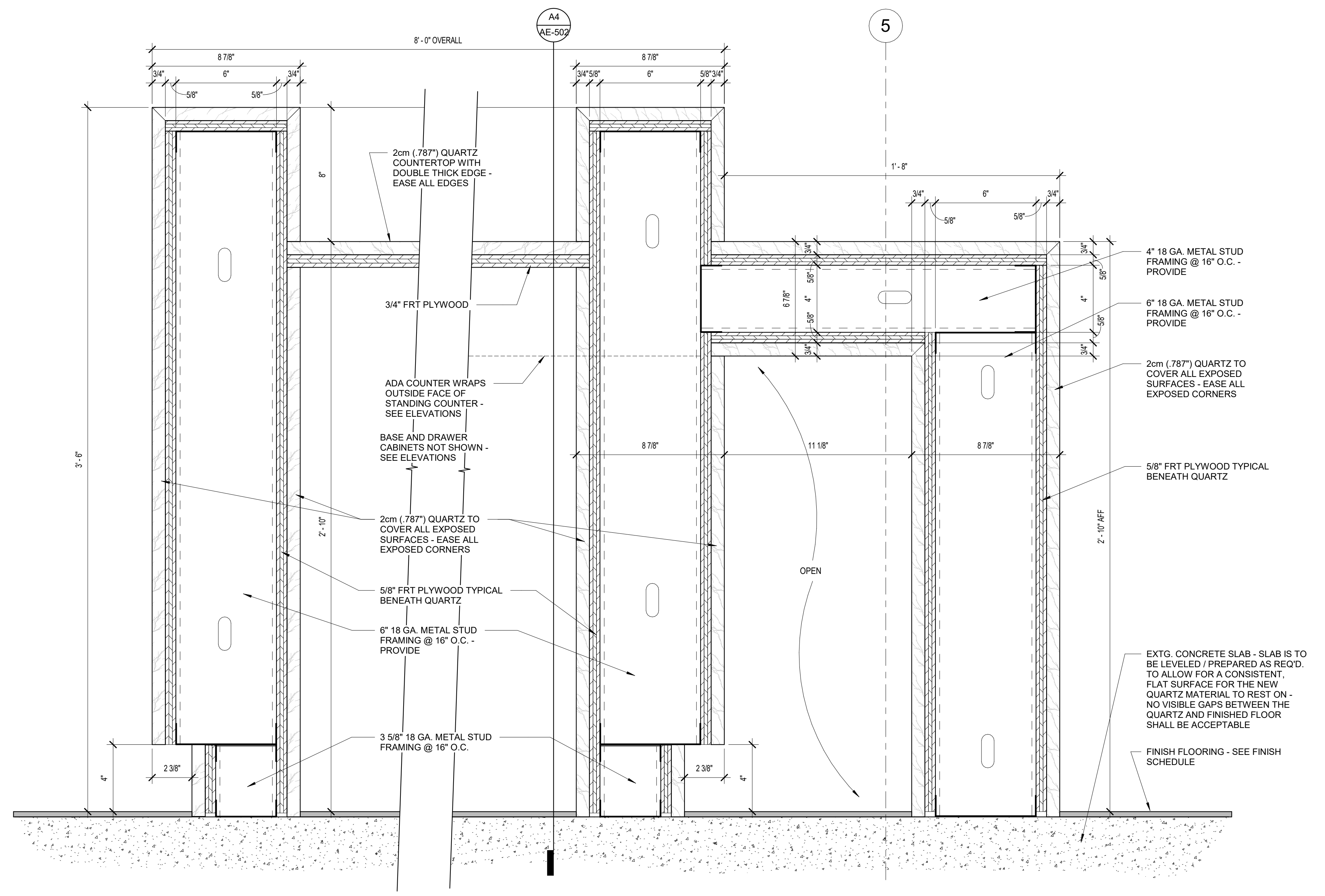
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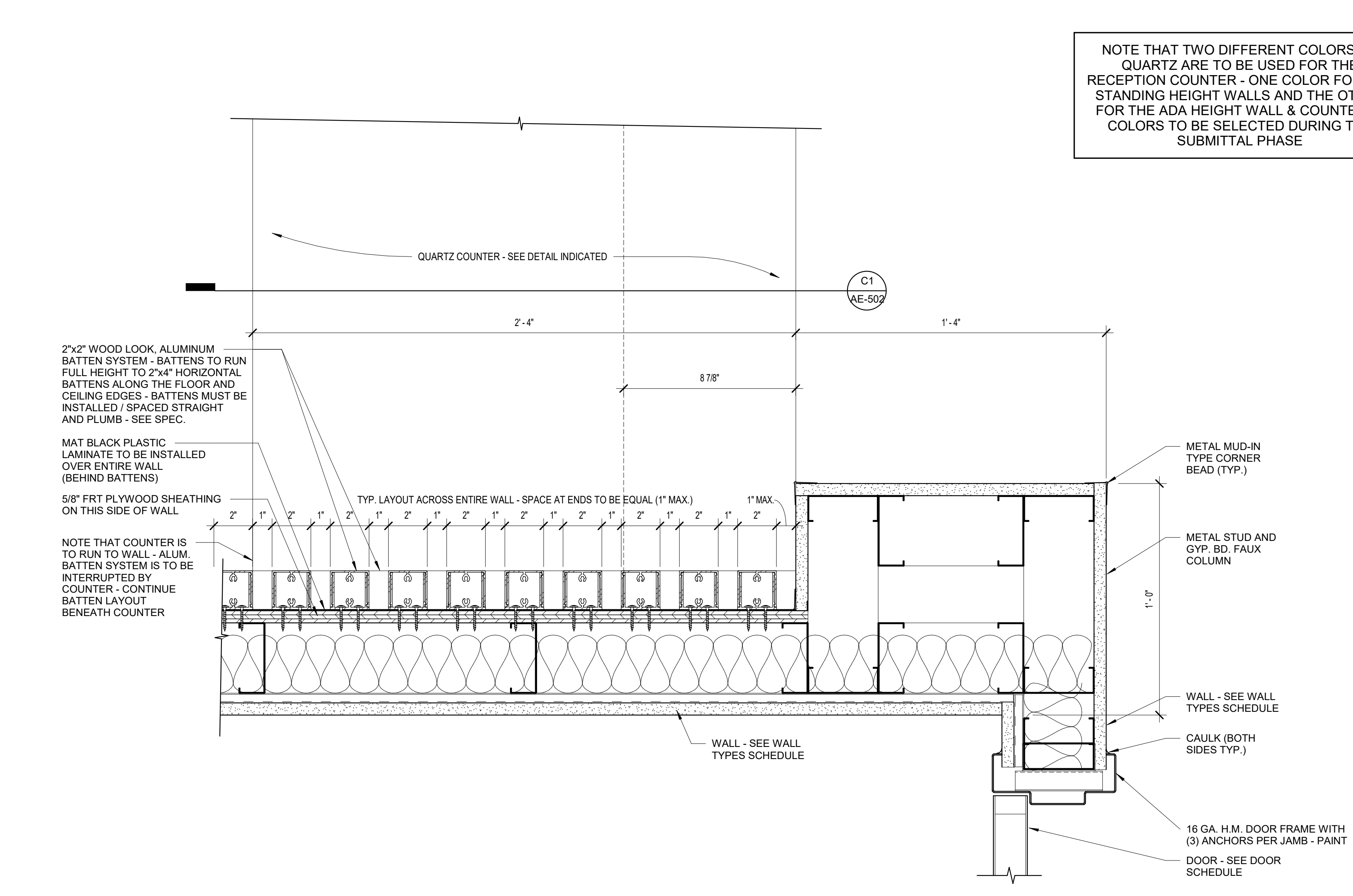


**C1 RECEPTION COUNTER - ADA SECTION**  
 3" = 1'-0"

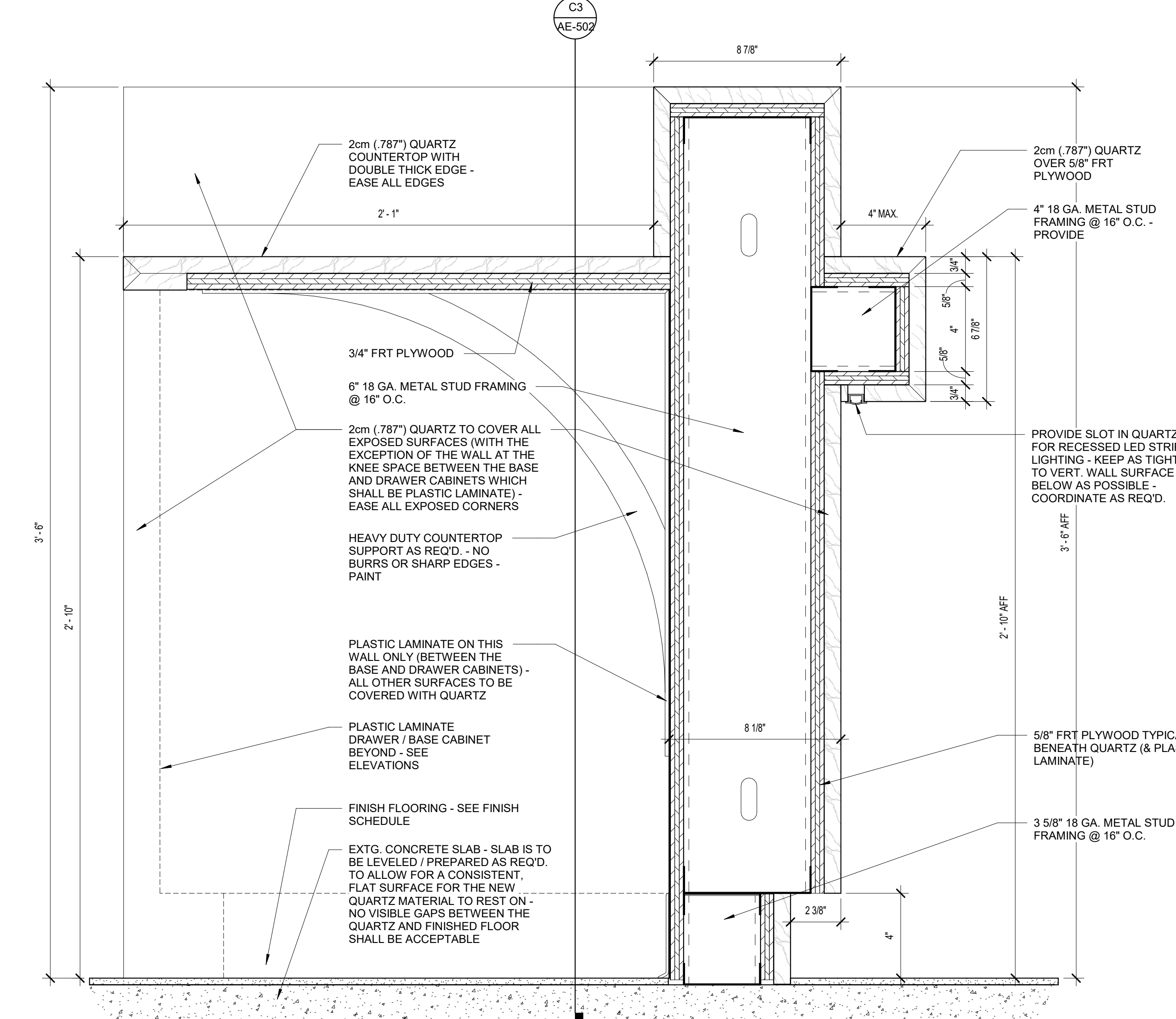


**C3 RECEPTION COUNTER - ADA / STANDING SECTION**  
 3" = 1'-0"

NOTE THAT TWO DIFFERENT COLORS OF QUARTZ ARE TO BE USED FOR THE RECEPTION COUNTER - ONE COLOR FOR THE STANDING HEIGHT WALLS AND THE OTHER FOR THE ADA HEIGHT WALL & COUNTERS - COLORS TO BE SELECTED DURING THE SUBMITTAL PHASE



**A1 DETAIL @ RECEPTION COUNTER / BATTEN WALL**  
 3" = 1'-0"



**A4 RECEPTION COUNTER - STANDING SECTION**  
 3" = 1'-0"

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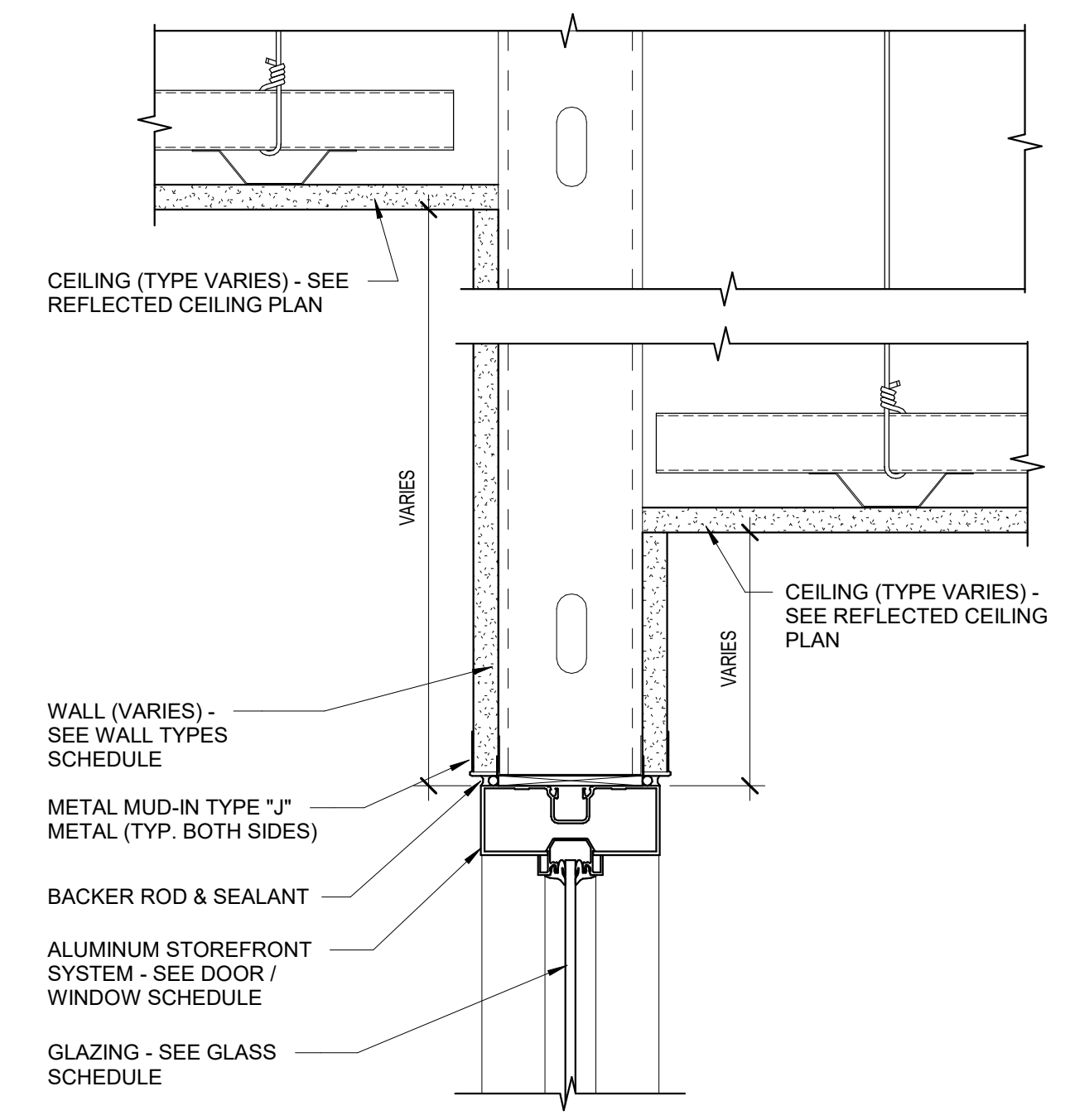
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**DETAILS -  
 RECEPTION  
 COUNTER**

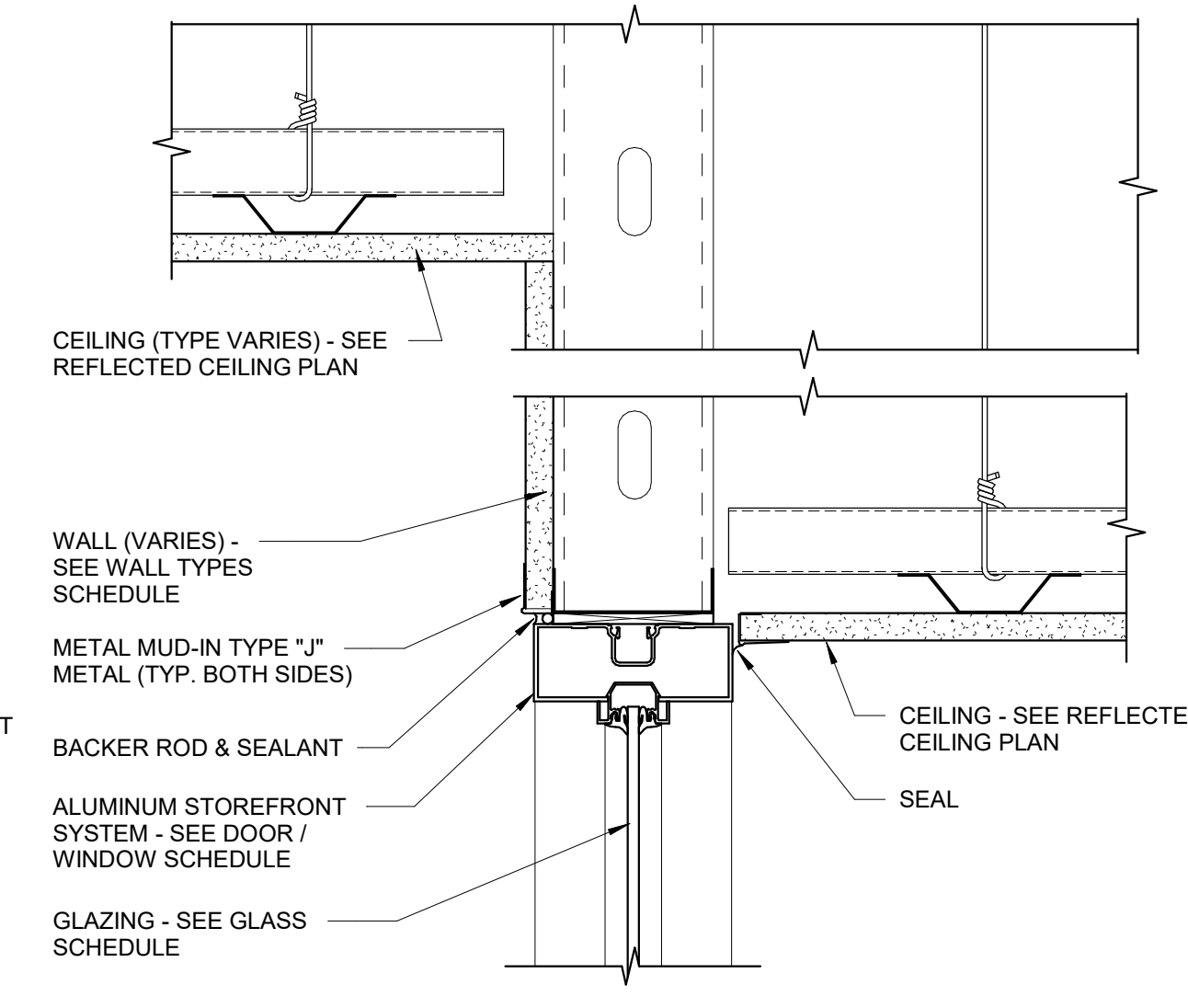
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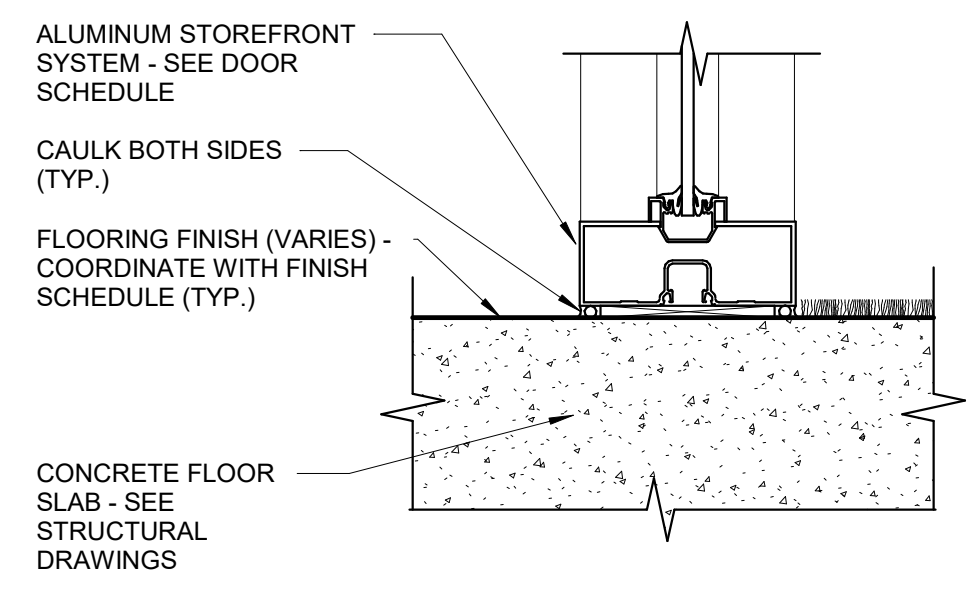




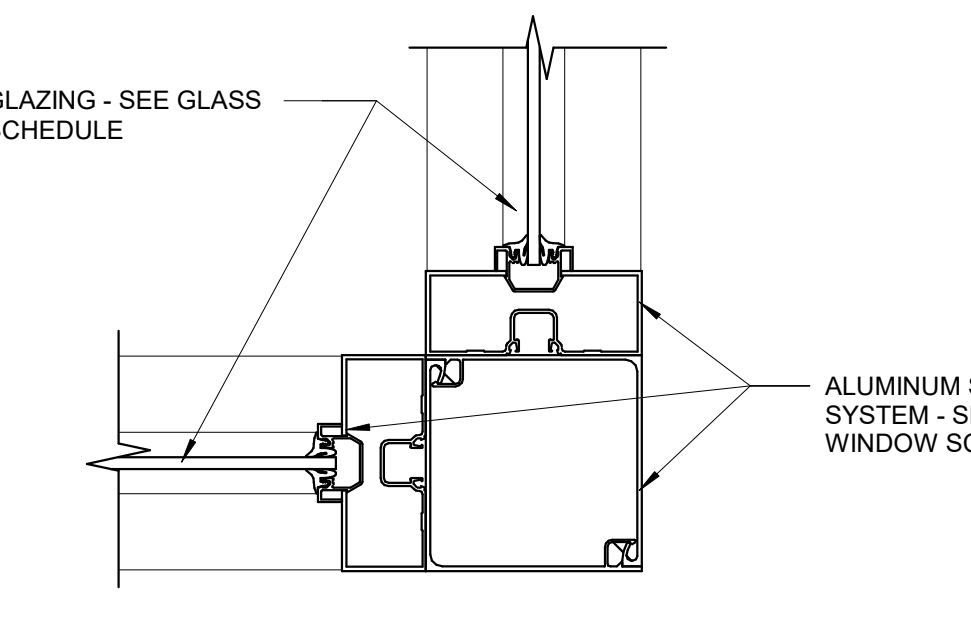
**D5 VESTIBULE HEAD - STEPPED CEILING 02**  
 3" = 1'-0"



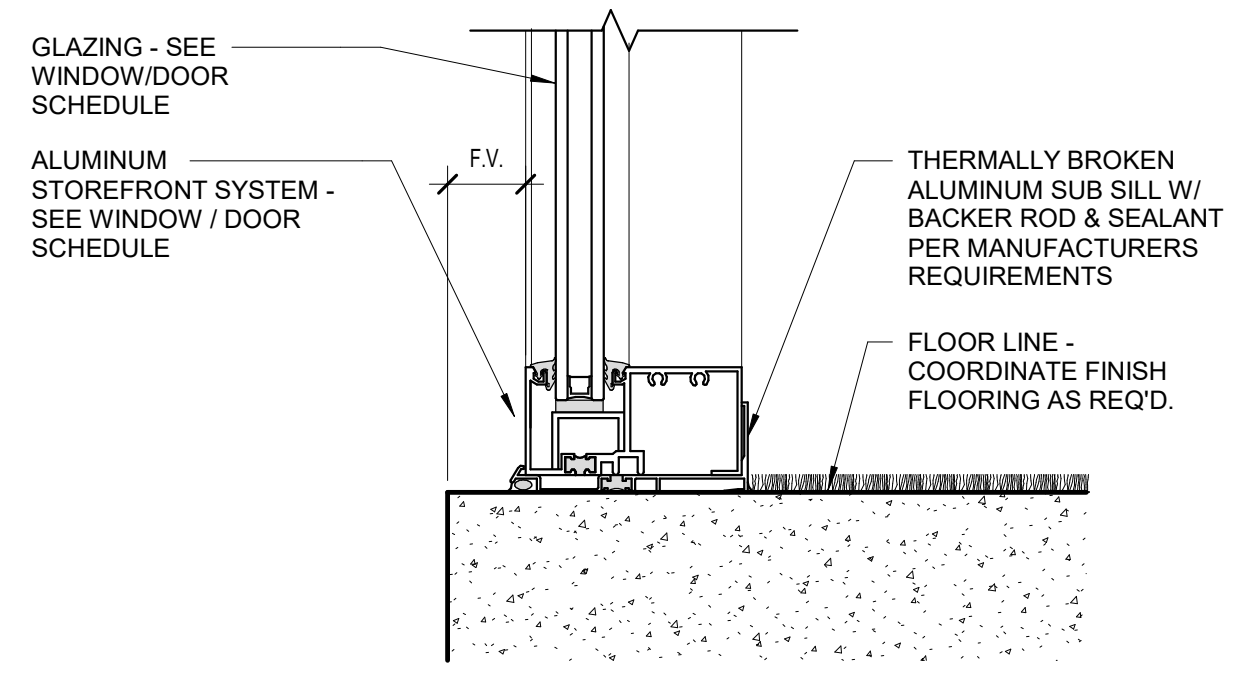
**C5 VESTIBULE HEAD - STEPPED CEILING 01**  
 3" = 1'-0"



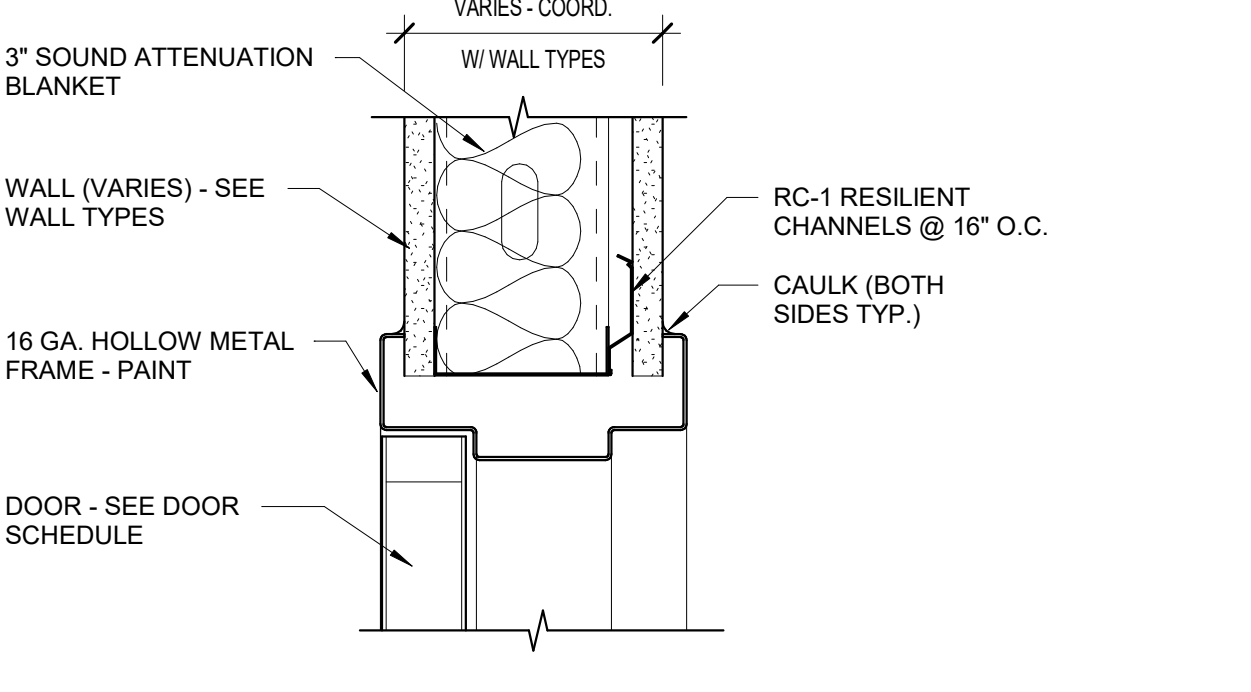
**D4 ALUM. SILL DETAIL**  
 3" = 1'-0"



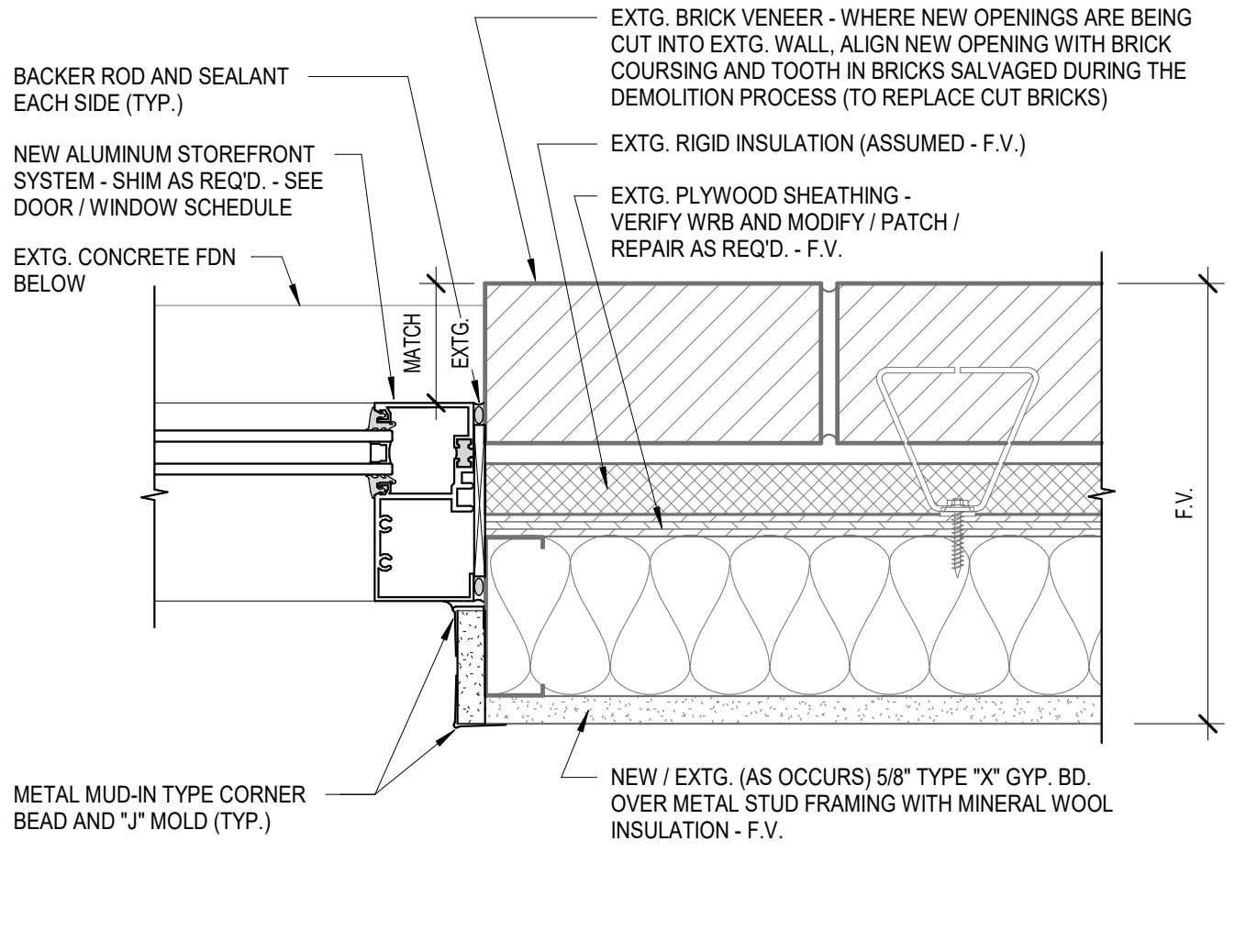
**C4 ALUM. CORNER JAMB**  
 3" = 1'-0"



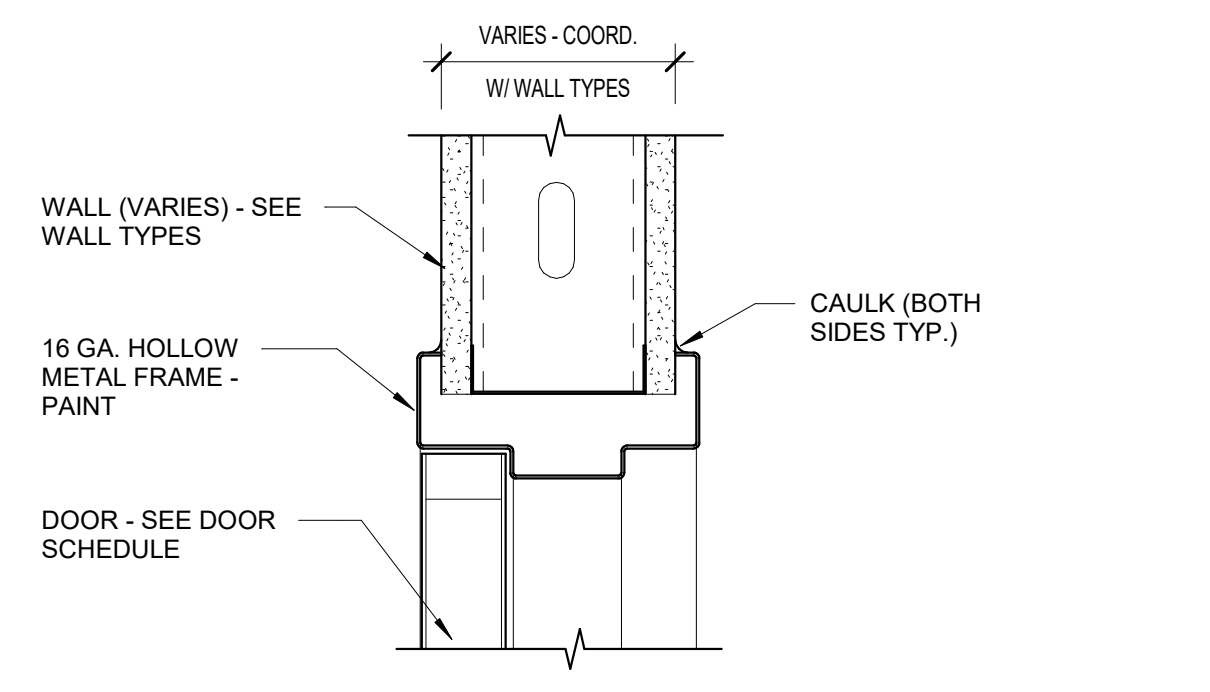
**D3 ALUM. FLOOR SILL (EXT.)**  
 3" = 1'-0"



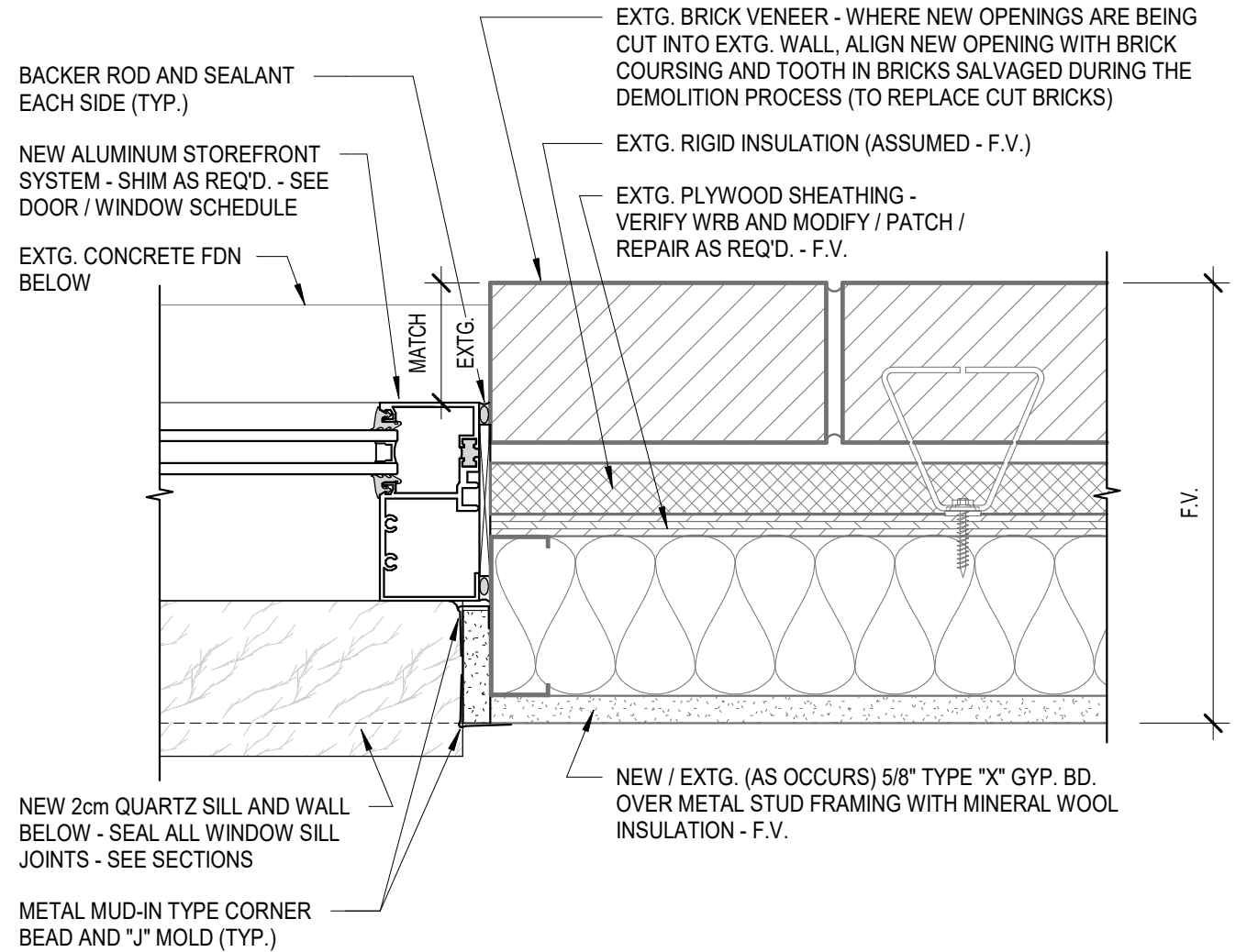
**C3 H.M. HEAD (SOUND RATED)**  
 3" = 1'-0"



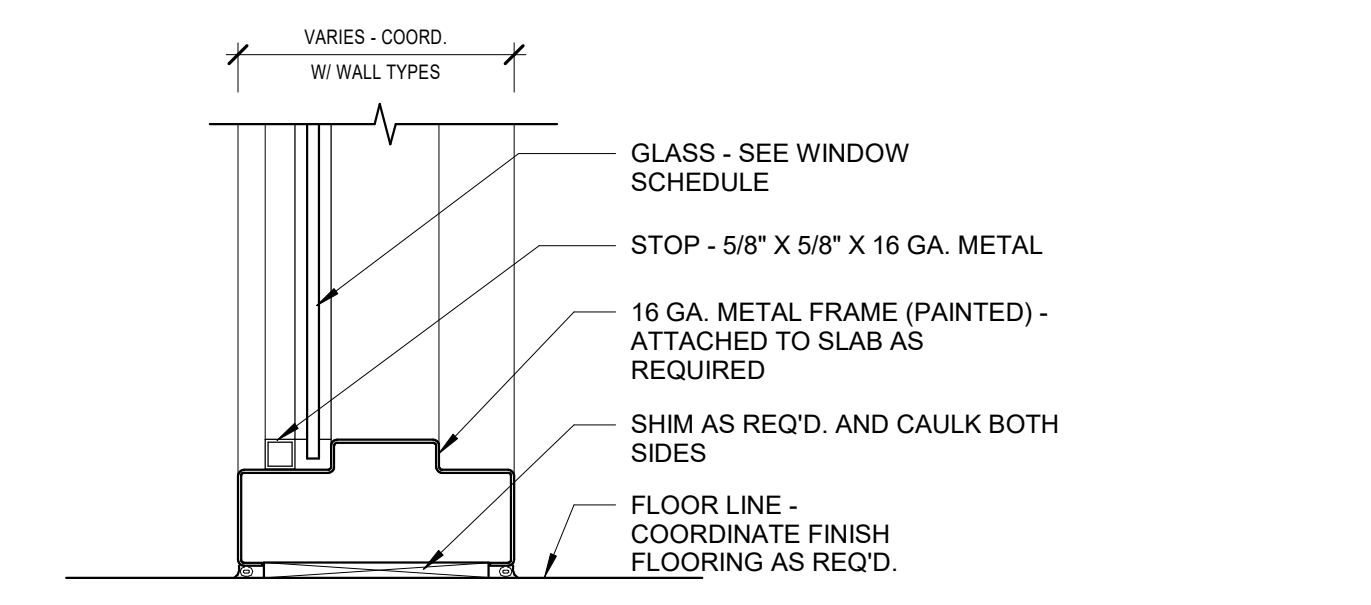
**D2 ALUM. WINDOW JAMB @ NO SILL / BRICK**  
 3" = 1'-0"



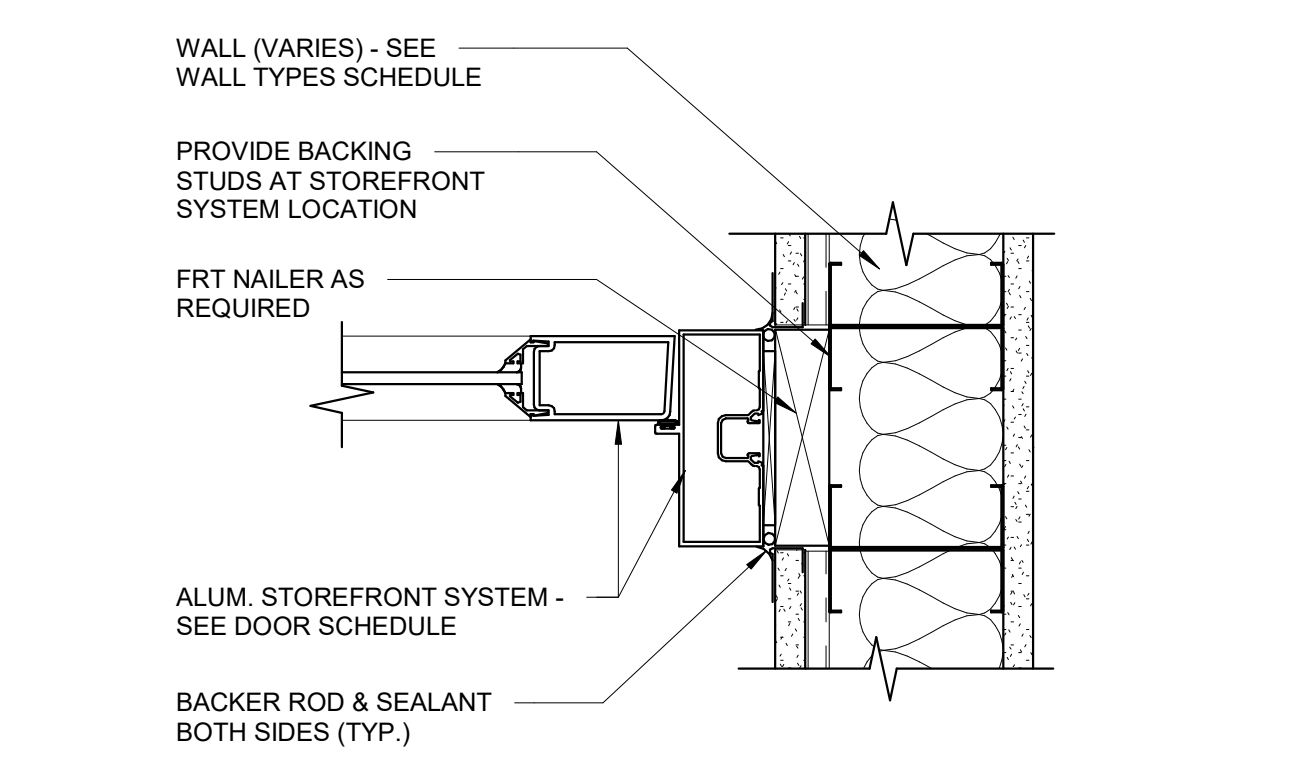
**C2 H.M. HEAD**  
 3" = 1'-0"



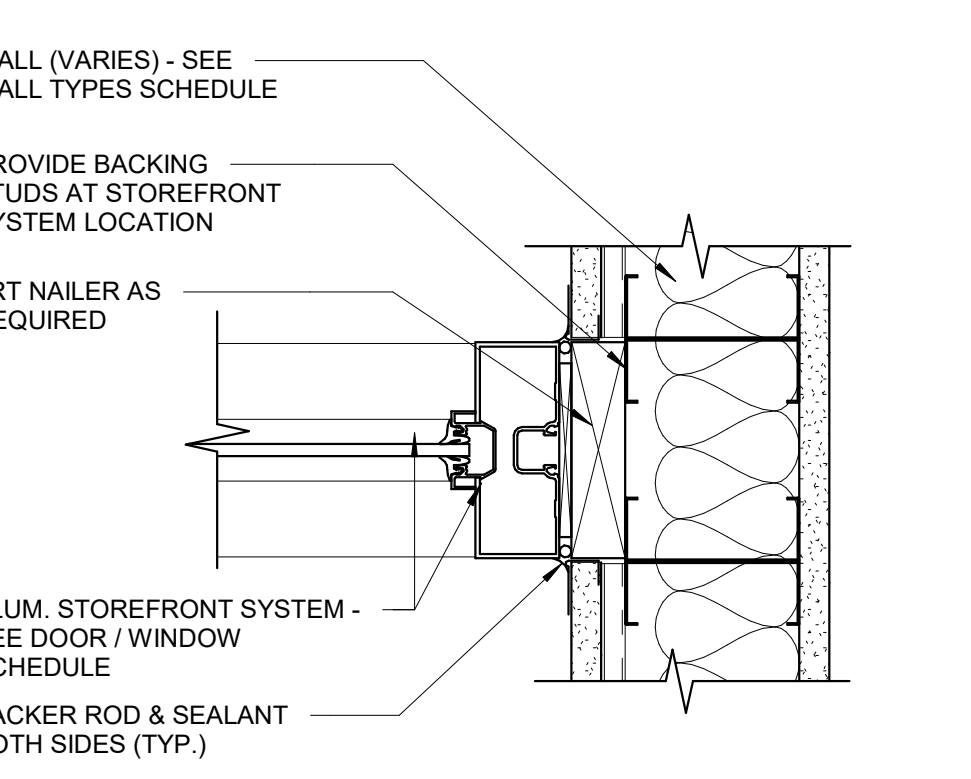
**D1 ALUM. WINDOW JAMB @ SILL / BRICK**  
 3" = 1'-0"



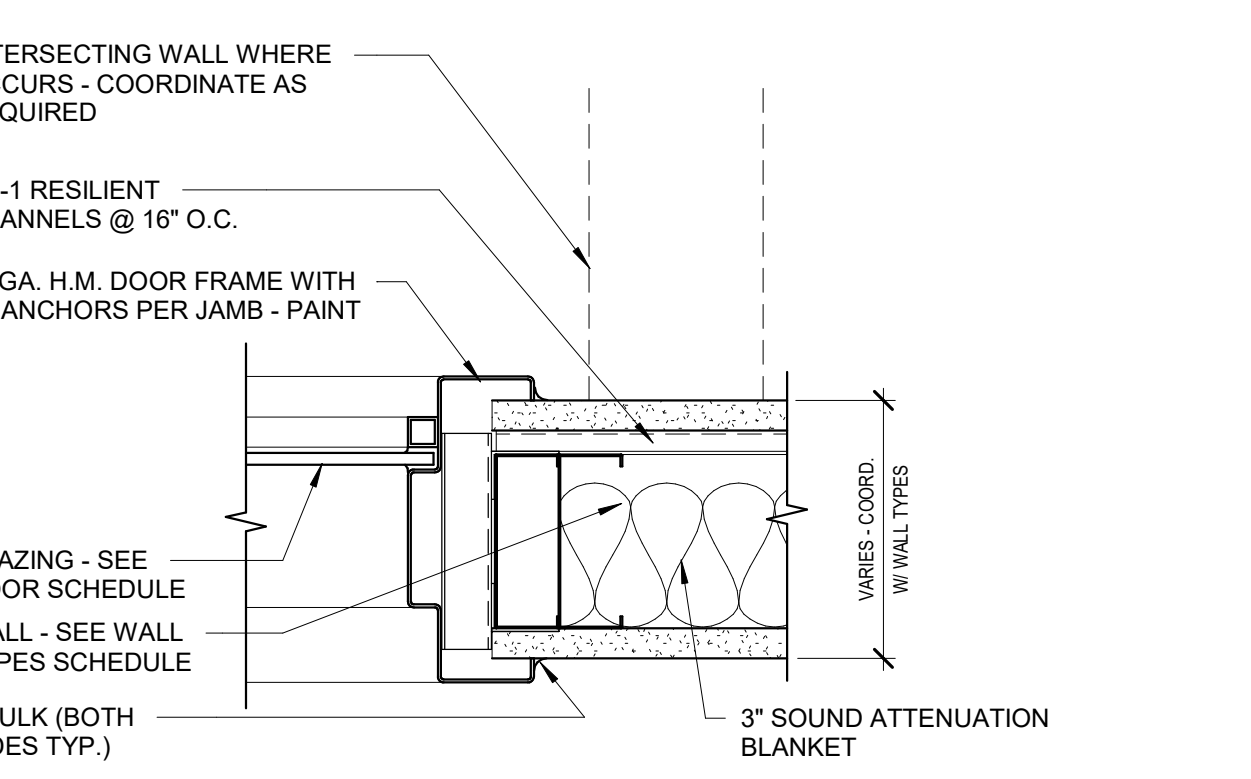
**C1 H.M. FLOOR SILL**  
 3" = 1'-0"



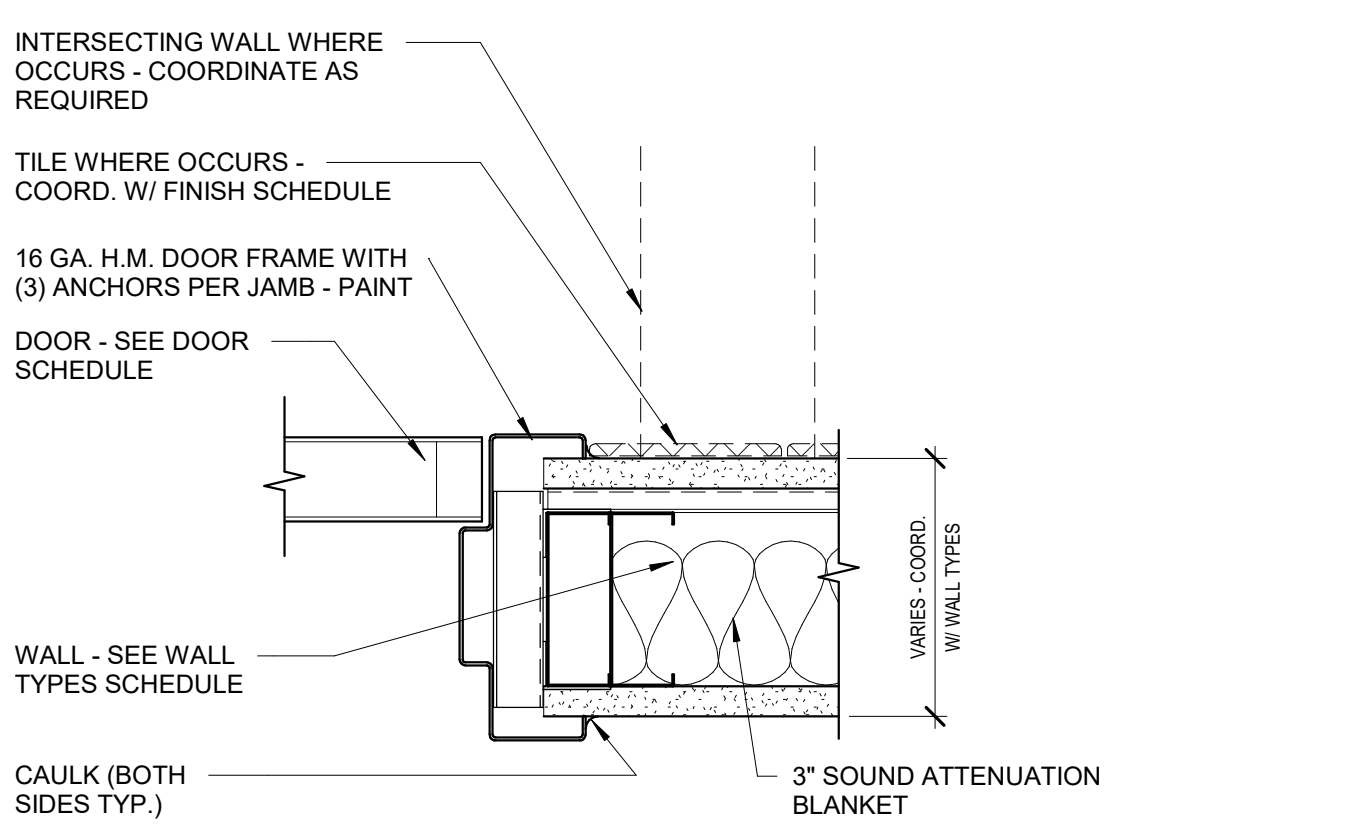
**B5 ALUM. DOOR (INT. @ WALL 02)**  
 3" = 1'-0"



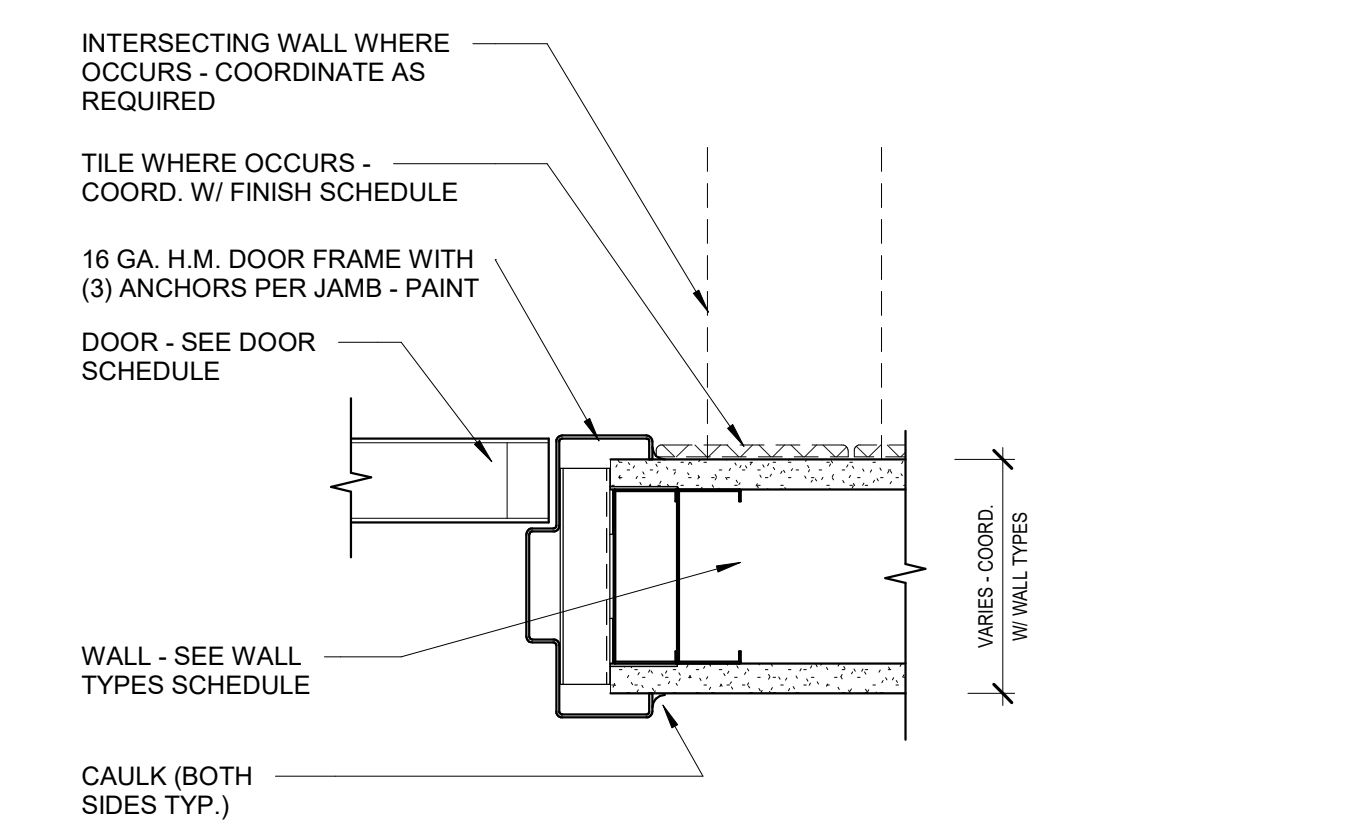
**B4 ALUM. DOOR (INT. @ WALL 01)**  
 3" = 1'-0"



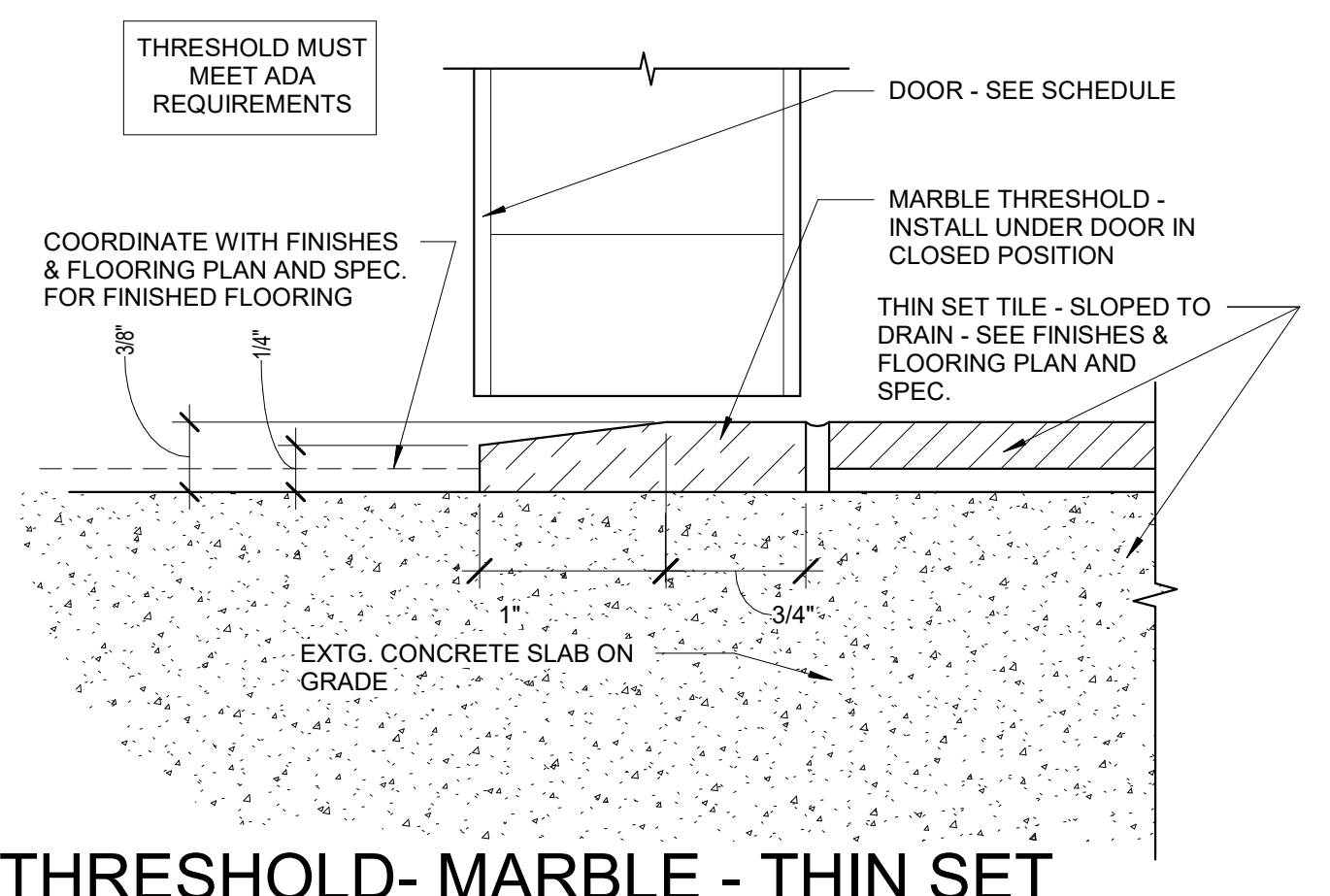
**B3 H.M. SIDELITE (SOUND RATED)**  
 3" = 1'-0"



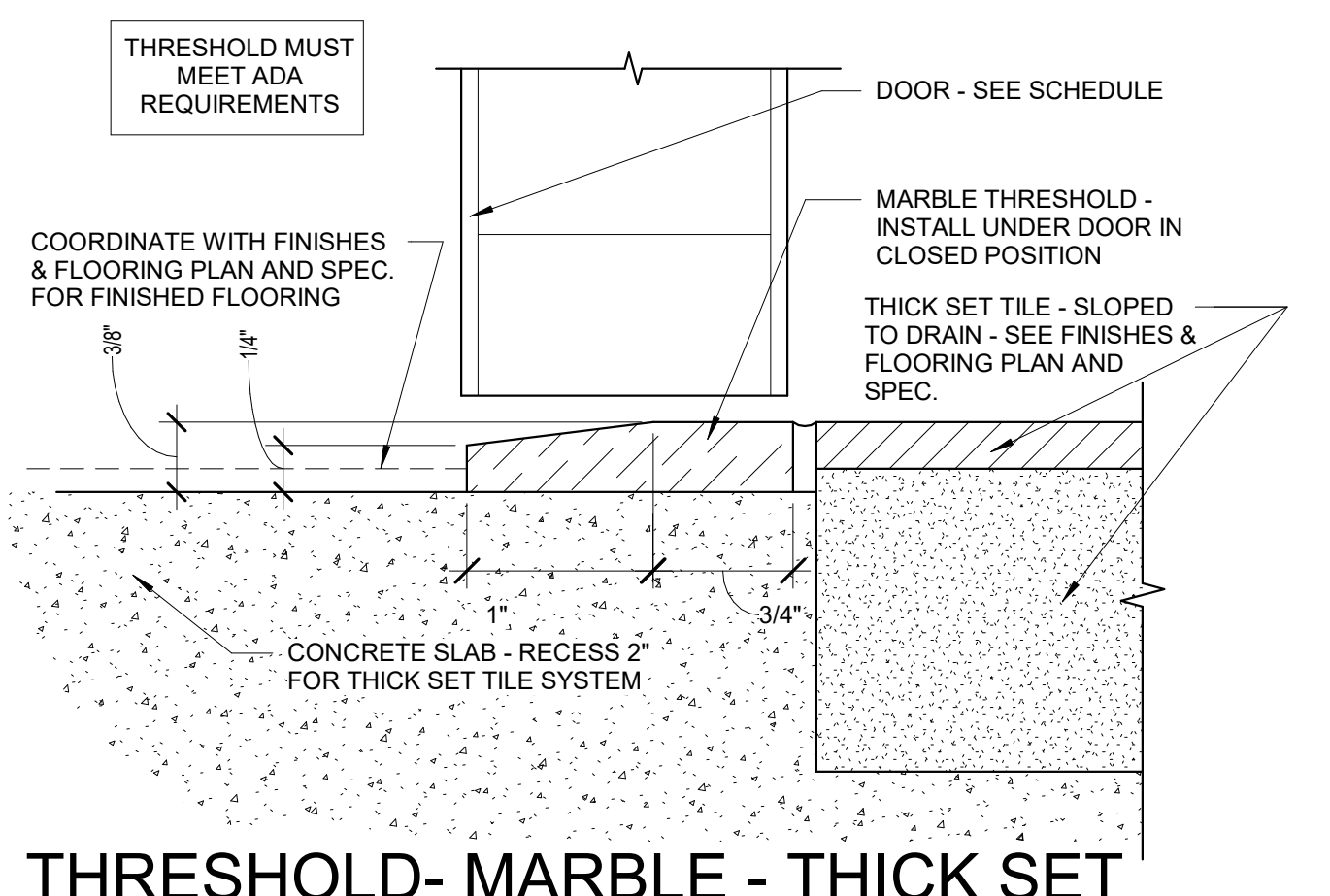
**B2 H.M. DOOR (SOUND RATED)**  
 3" = 1'-0"



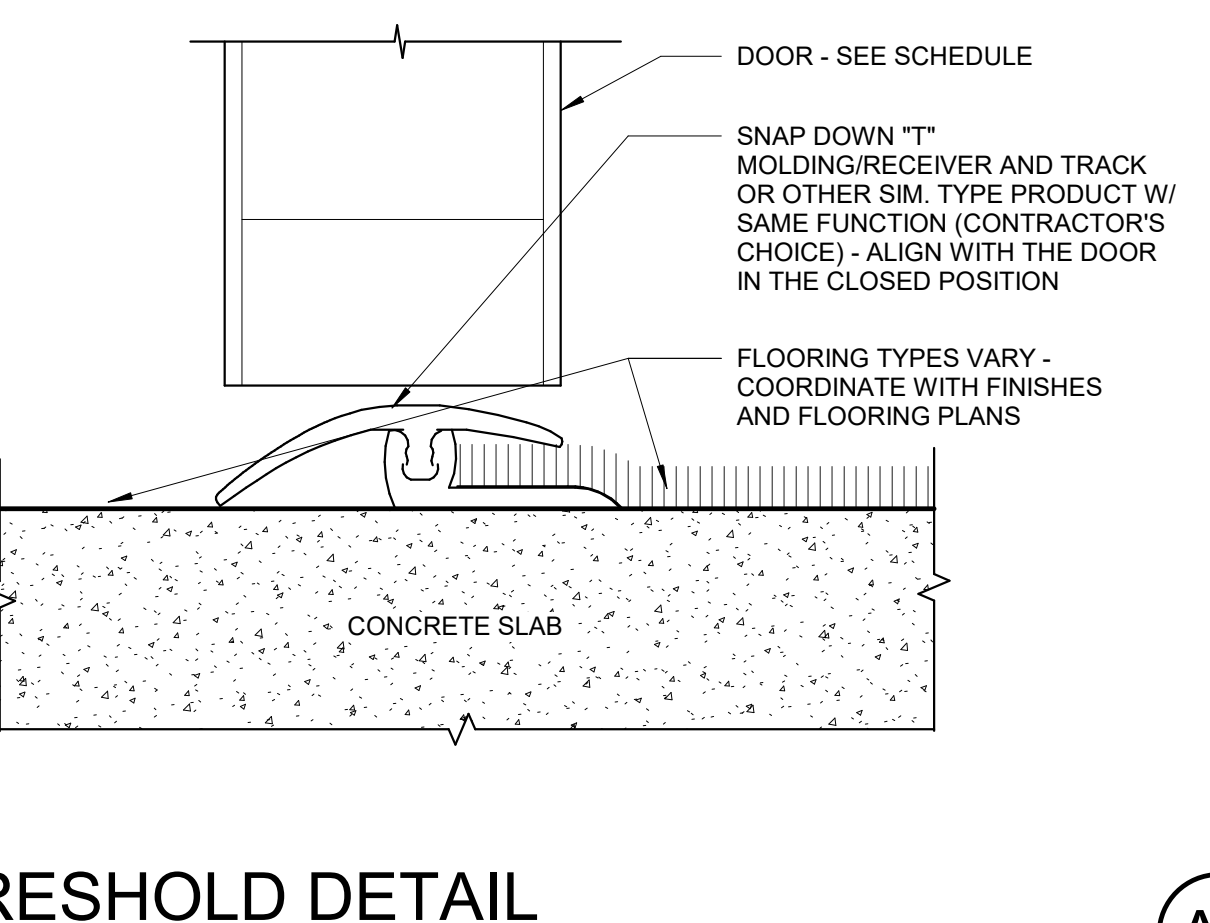
**B1 H.M. DOOR**  
 3" = 1'-0"



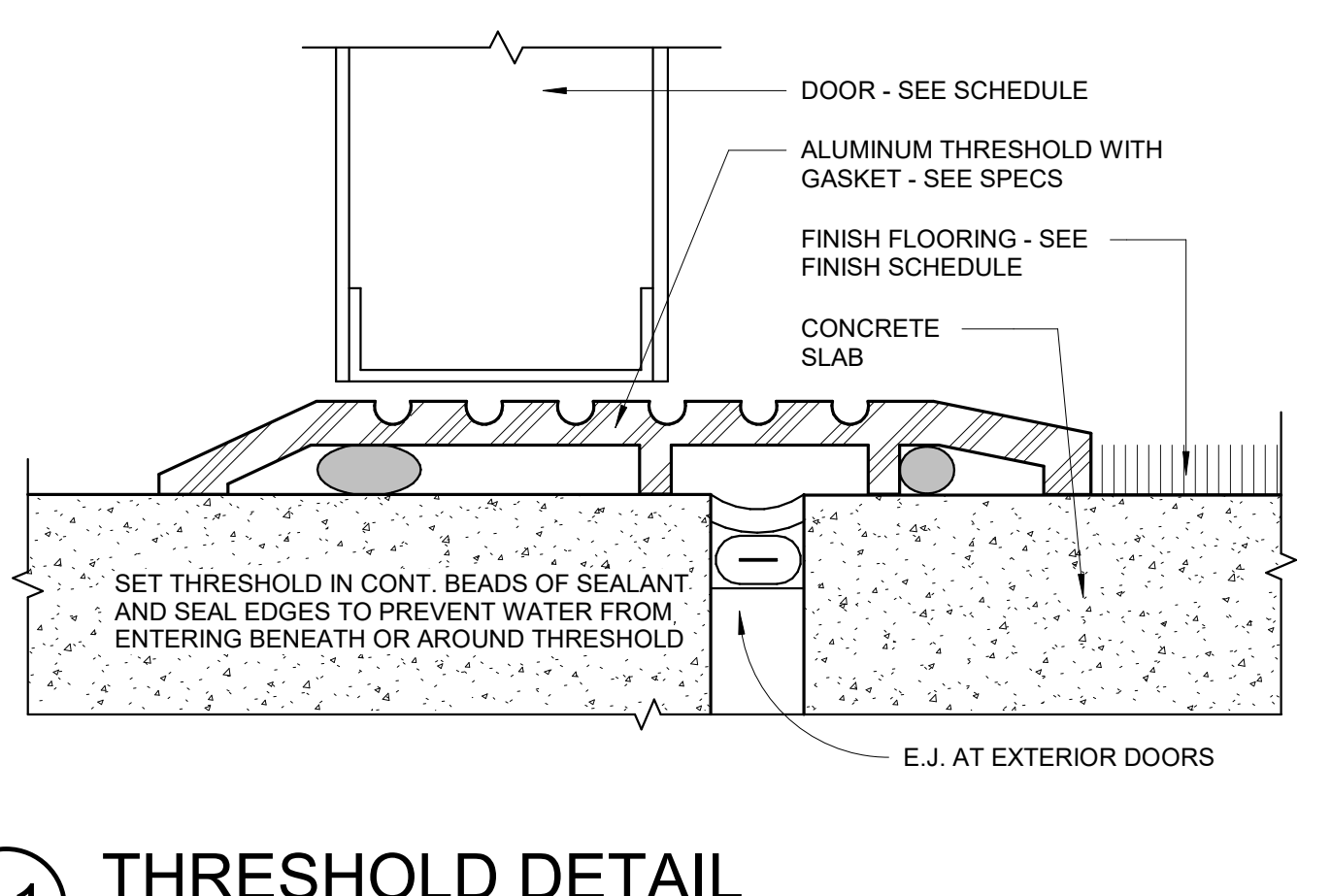
**A5 THRESHOLD - MARBLE - THIN SET**  
 12" = 1'-0"



**A3 THRESHOLD - MARBLE - THICK SET**  
 12" = 1'-0"

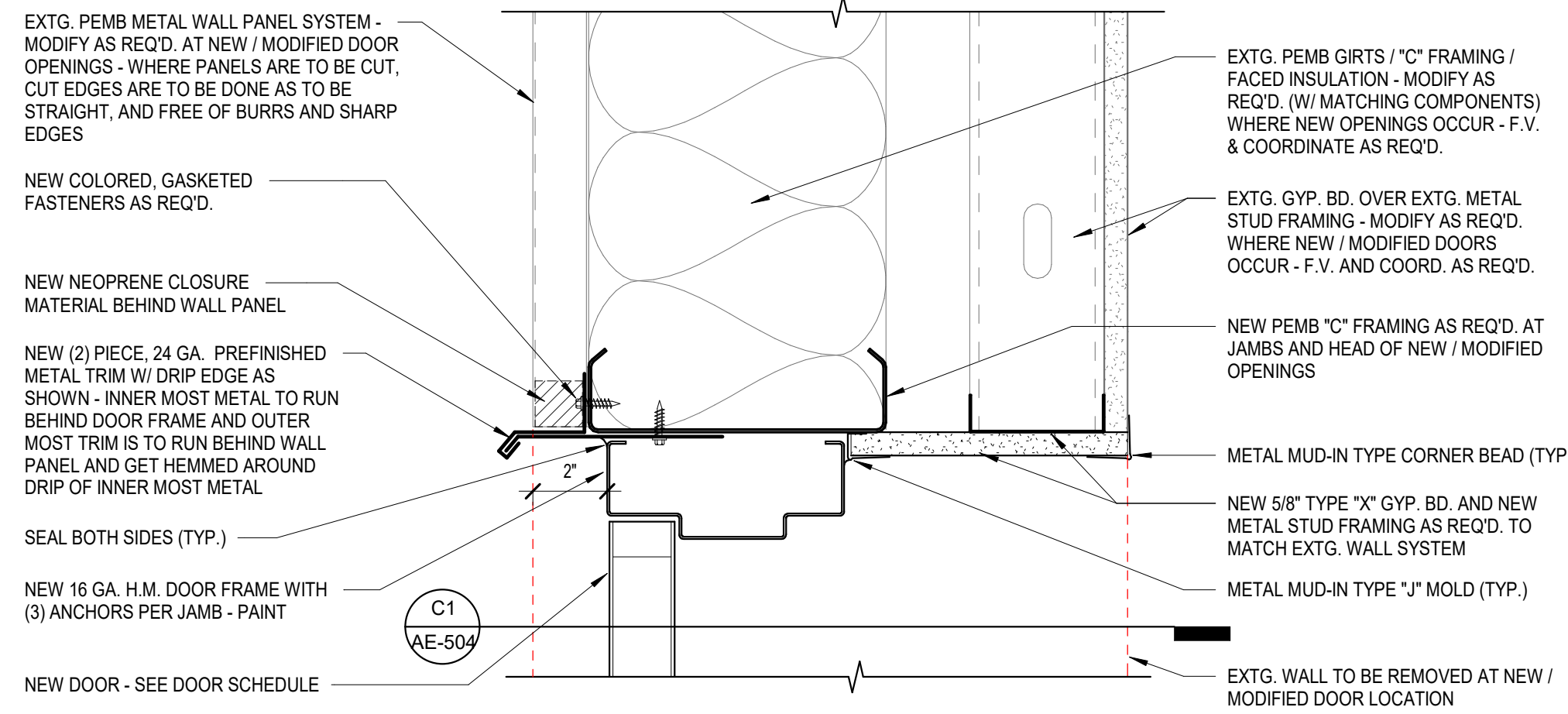


**A2 THRESHOLD DETAIL**  
 12" = 1'-0"

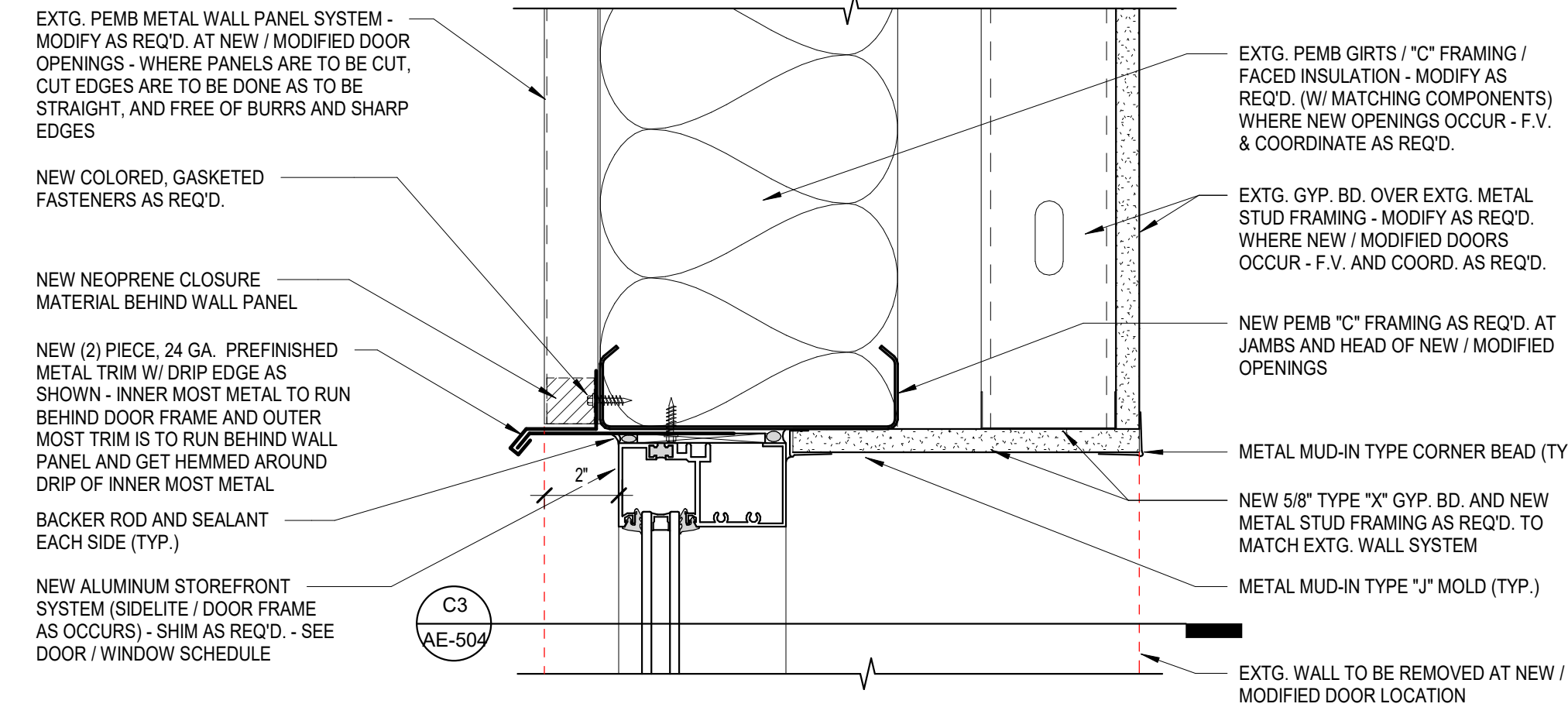


**A1 THRESHOLD DETAIL**  
 12" = 1'-0"

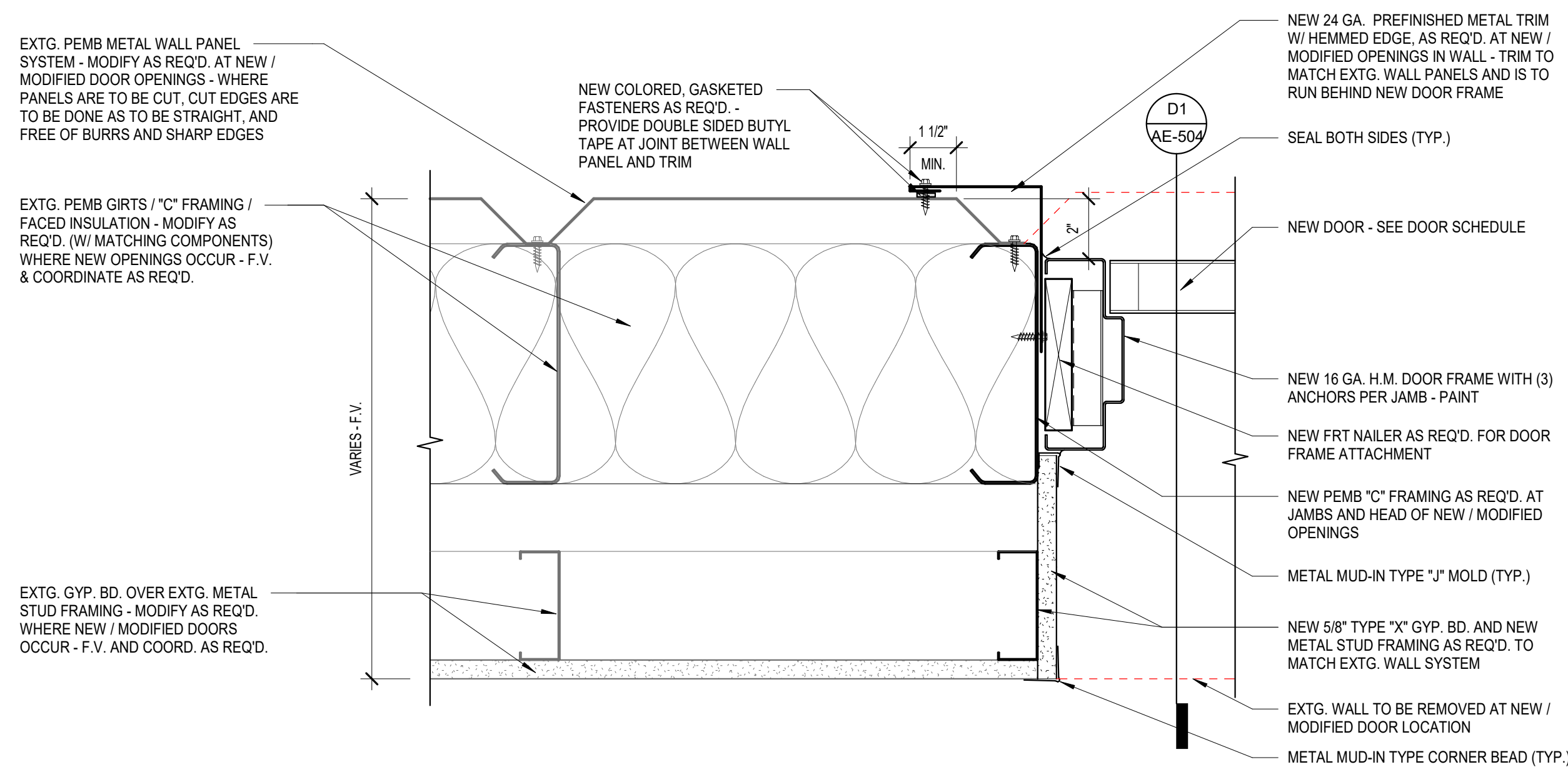




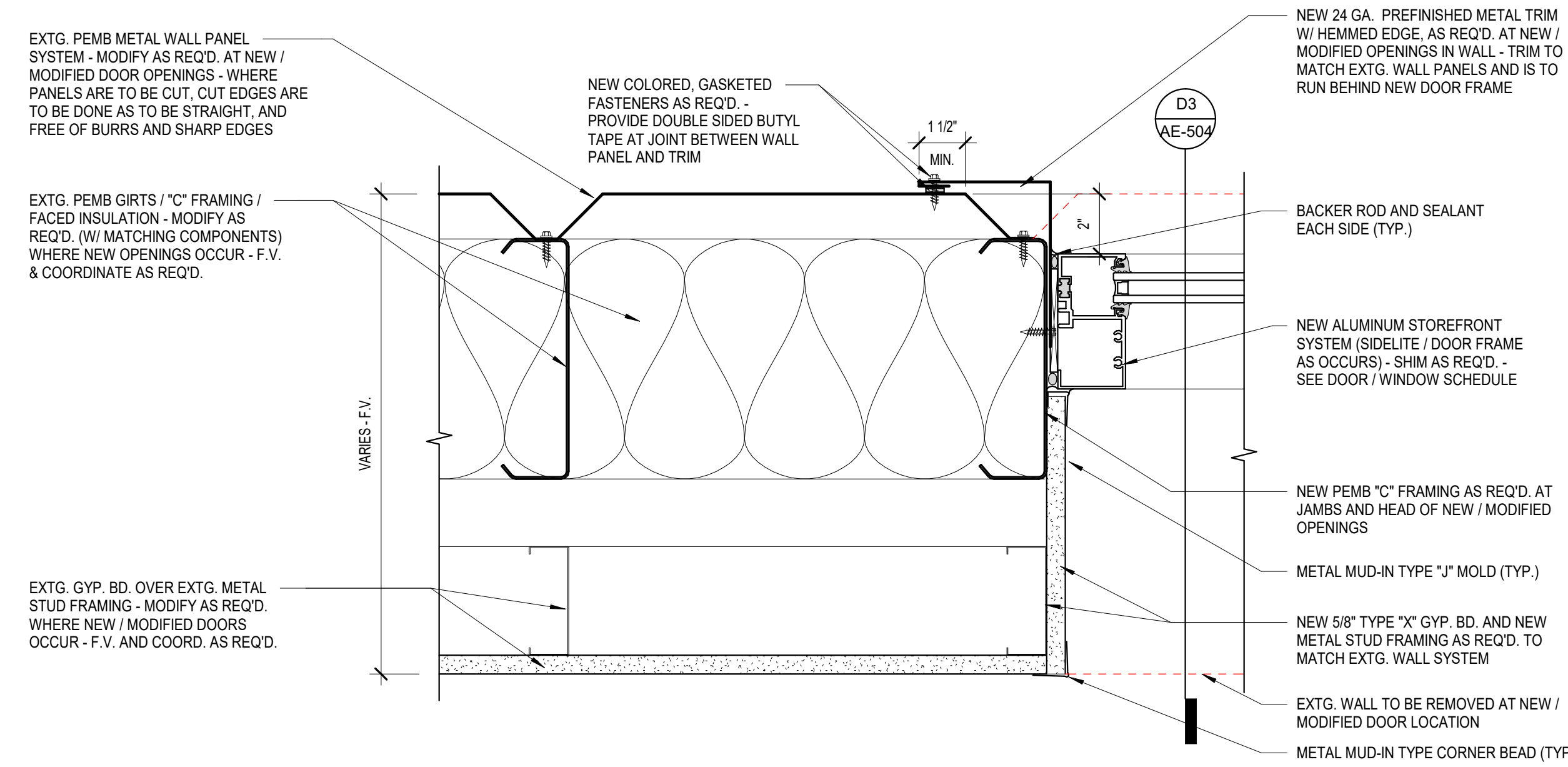
**D1** HM DOOR HEAD - PEMB  
3' = 1'-0"



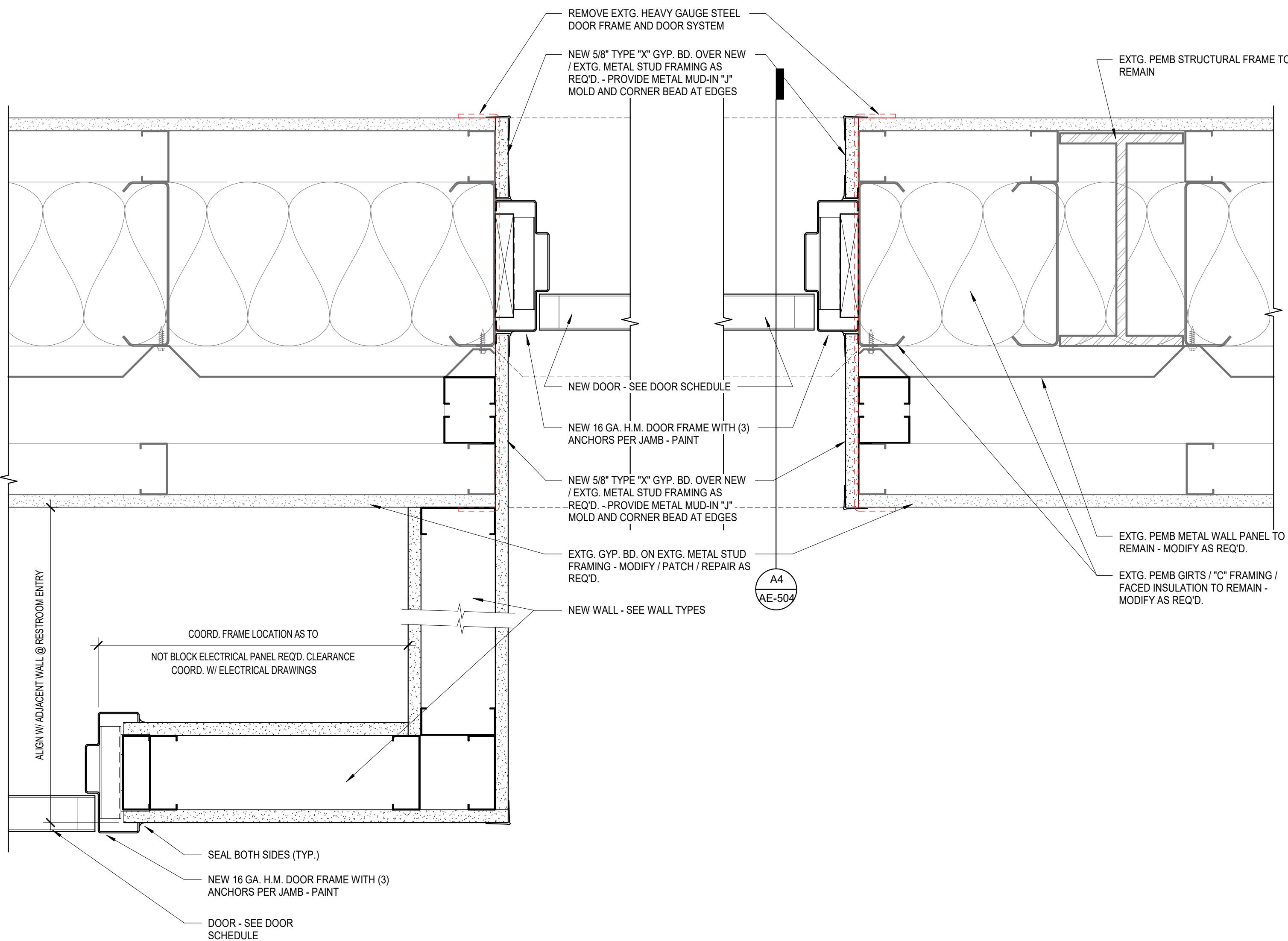
**D3** ALUM. DOOR HEAD - PEMB  
3' = 1'-0"



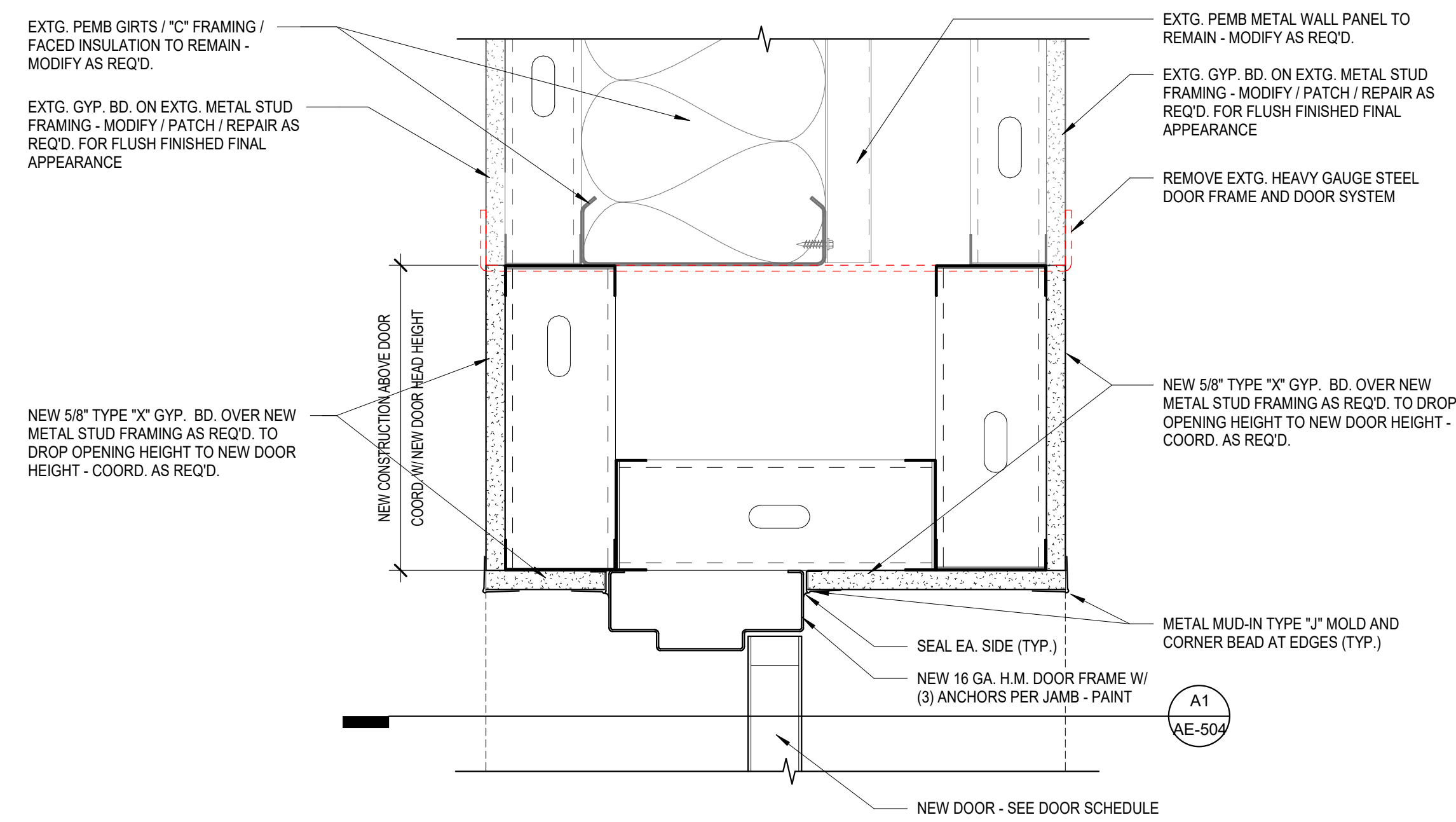
**C1** HM DOOR JAMB - PEMB  
3' = 1'-0"



**C3** ALUM. DOOR / WINDOW JAMB - PEMB  
3' = 1'-0"



**A1** DOOR JAMBS @ FLEX SPACE - EAST  
3' = 1'-0"



**A4** DOOR HEAD @ FLEX SPACE - EAST  
3' = 1'-0"

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

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| SHEET NUMBER:    | <b>AE-504</b>         |

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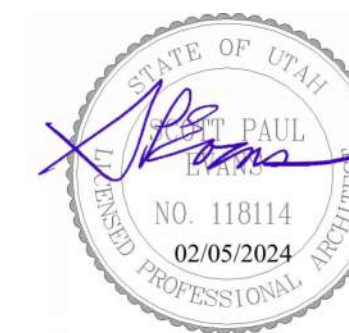




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P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1369  
info@spe-architect.com  
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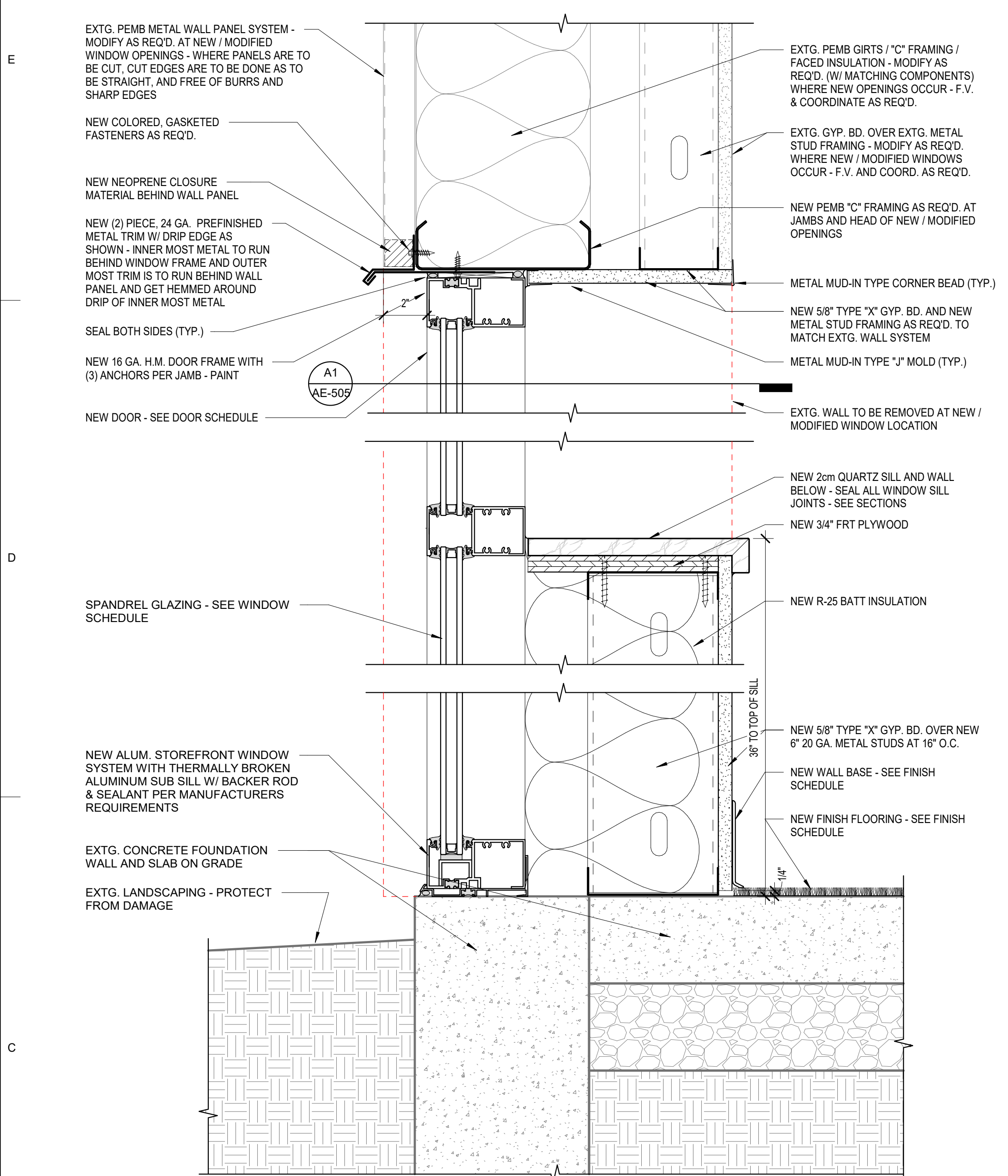
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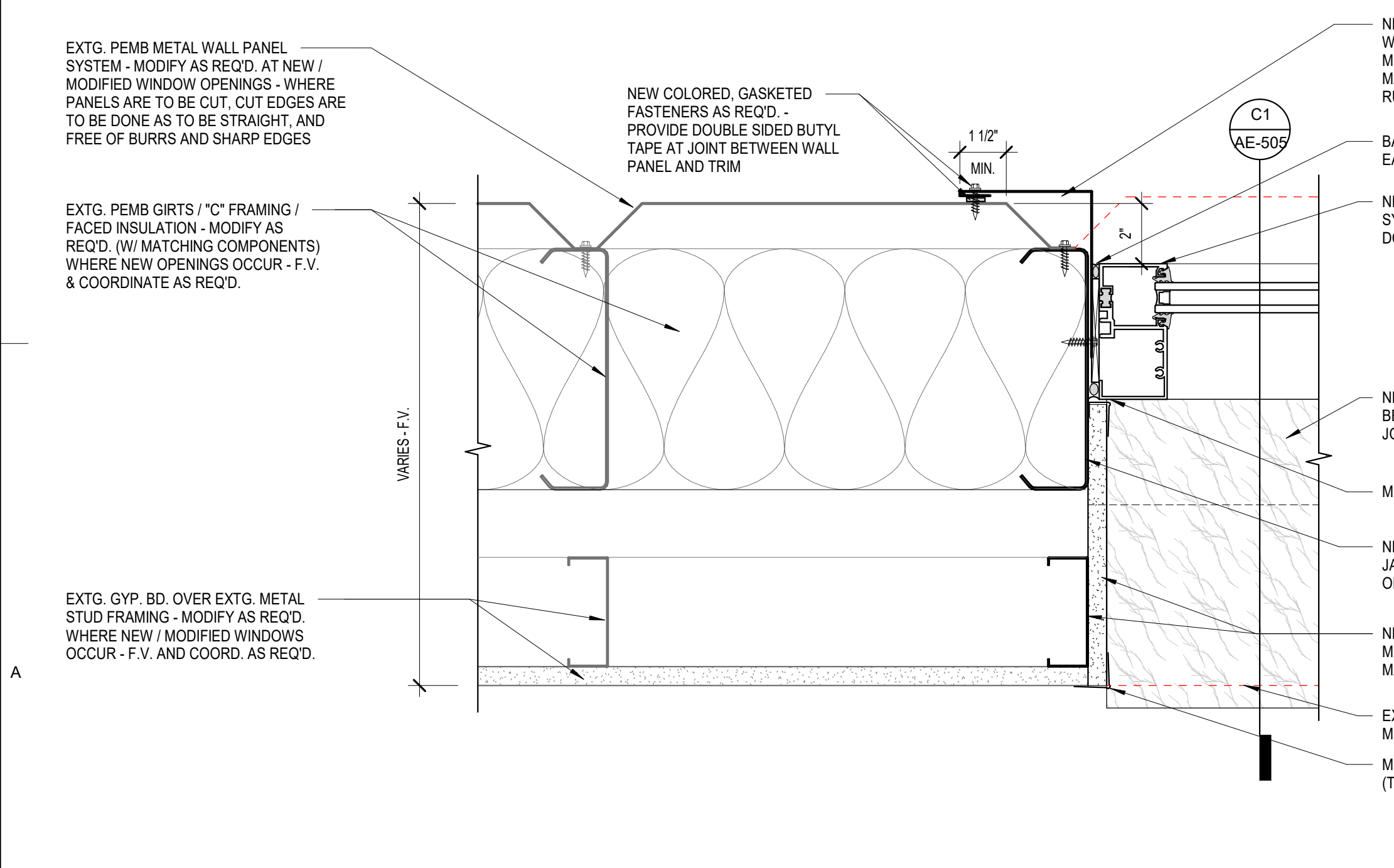
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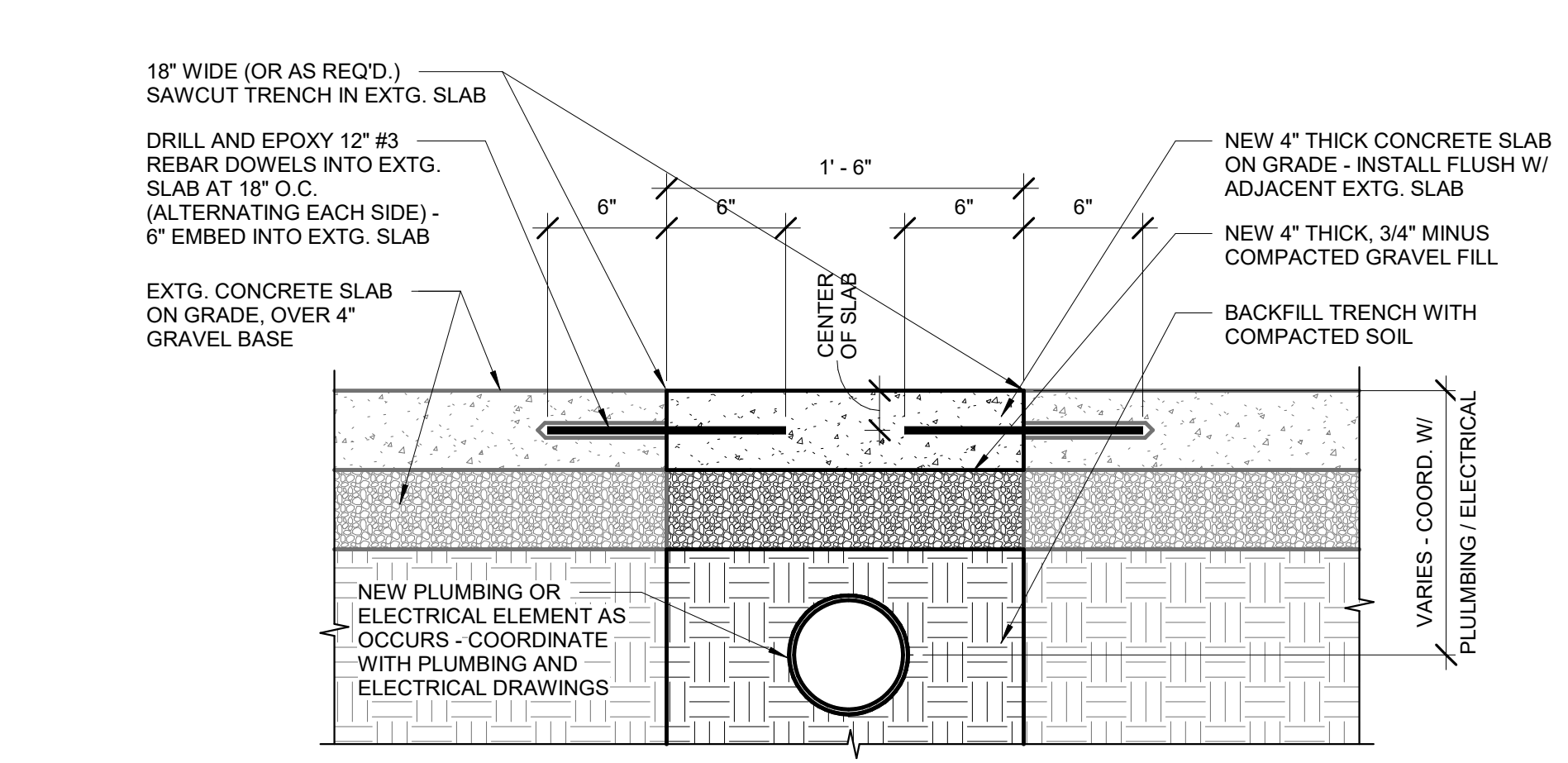
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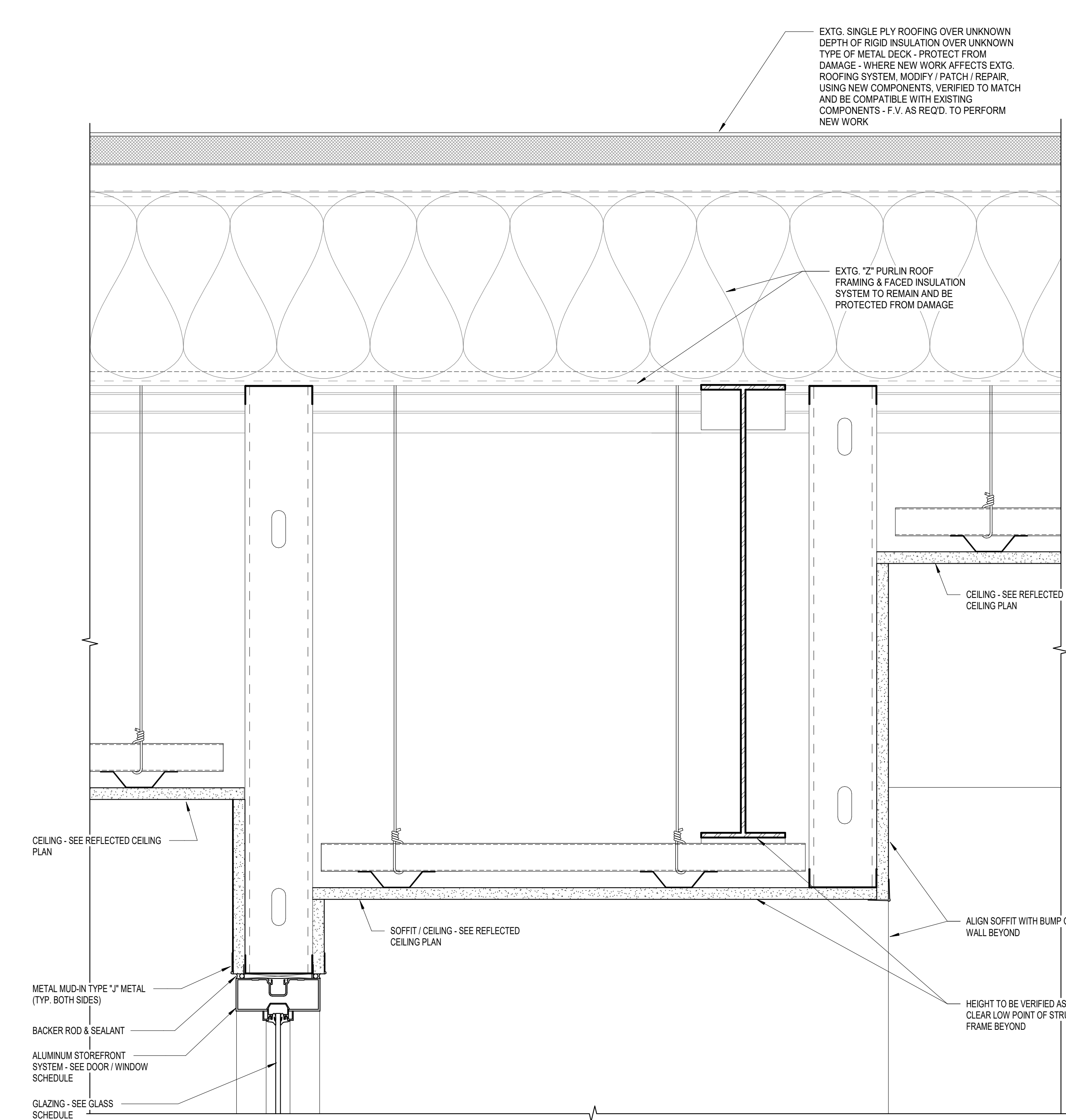
C1 ALUM. WINDOW - PEMB  
3" = 1'-0"



A1 ALUM. WINDOW JAMB - PEMB  
3" = 1'-0"



D3 CONCRETE TRENCH INFILL  
1 1/2" = 1'-0"



A3 WINDOW HEAD @ EAST ENTRY  
3" = 1'-0"

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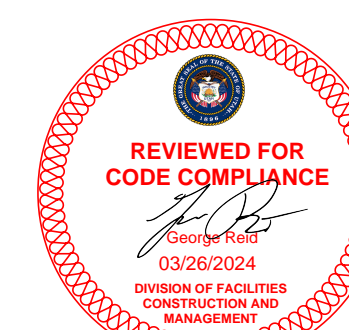
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P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
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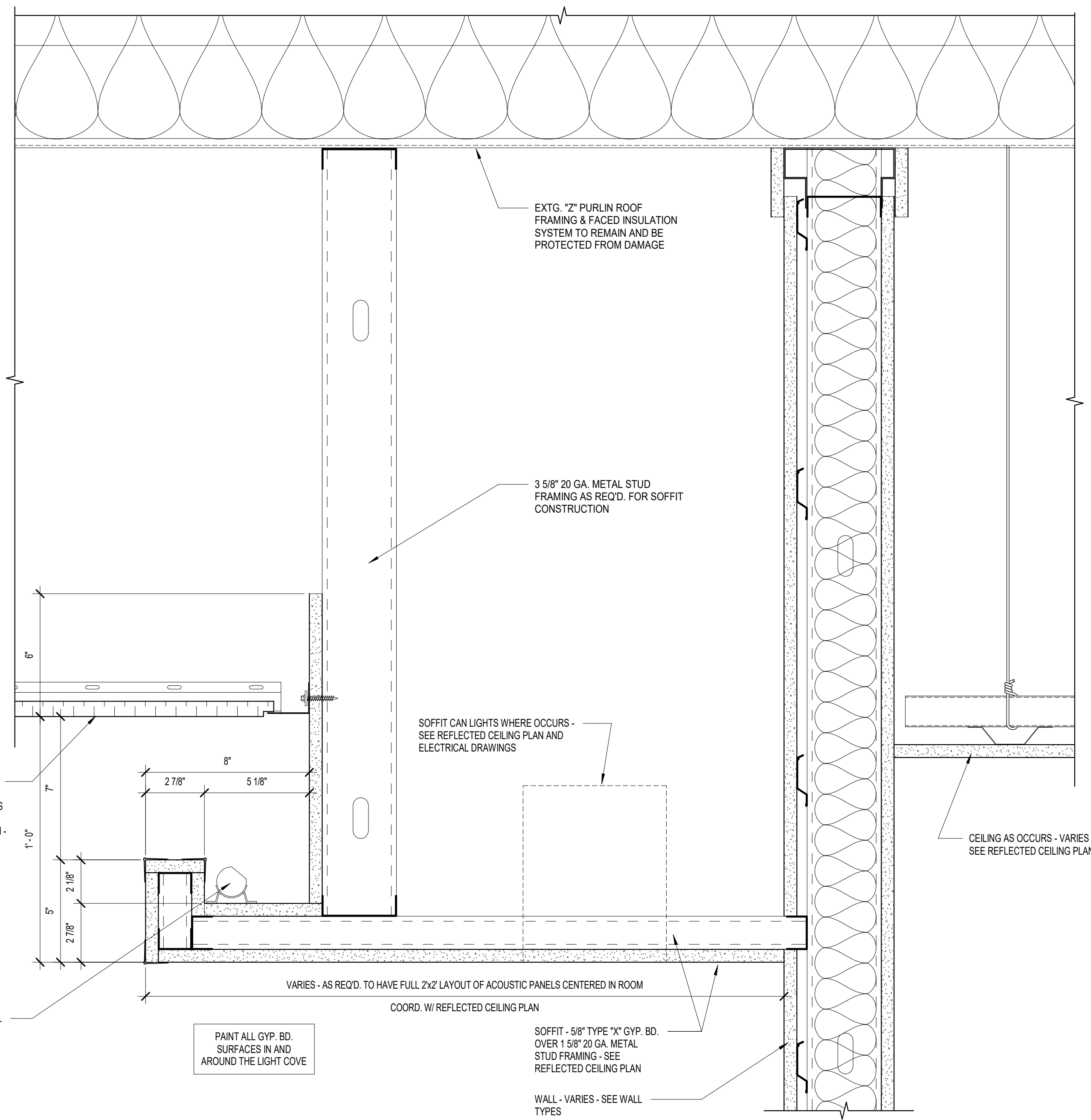
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A1 LIGHT COVE DETAIL

3" = 1'-0"

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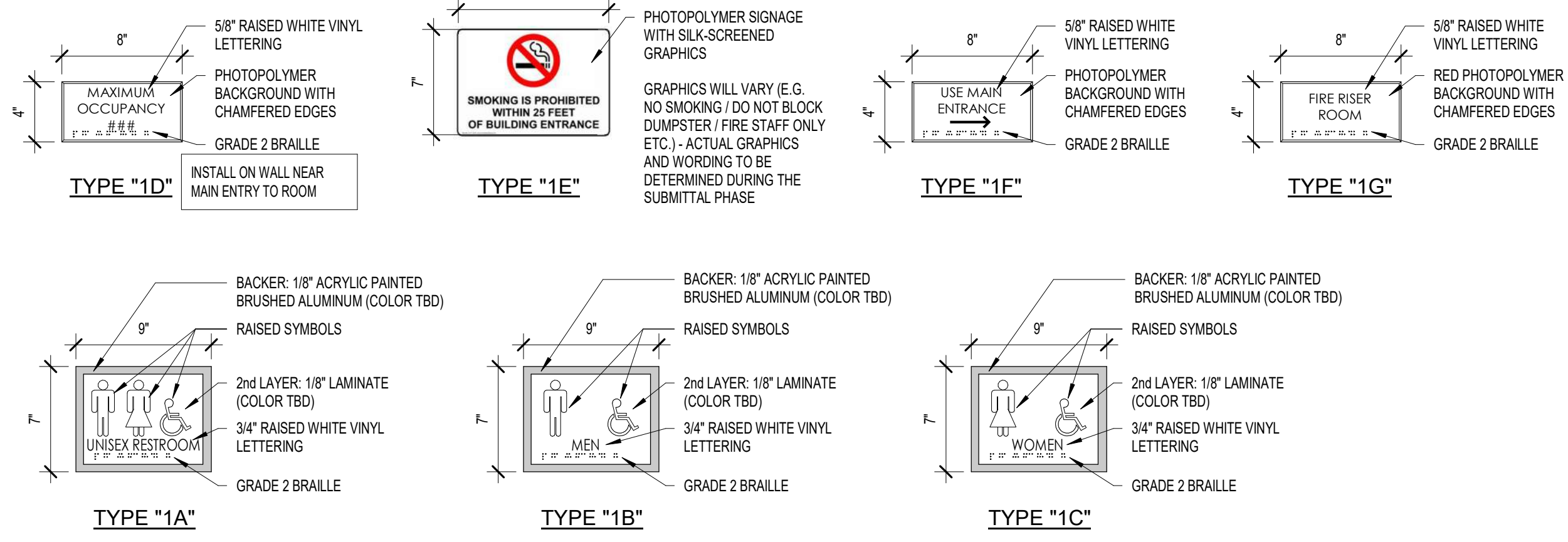


### DOOR SCHEDULE

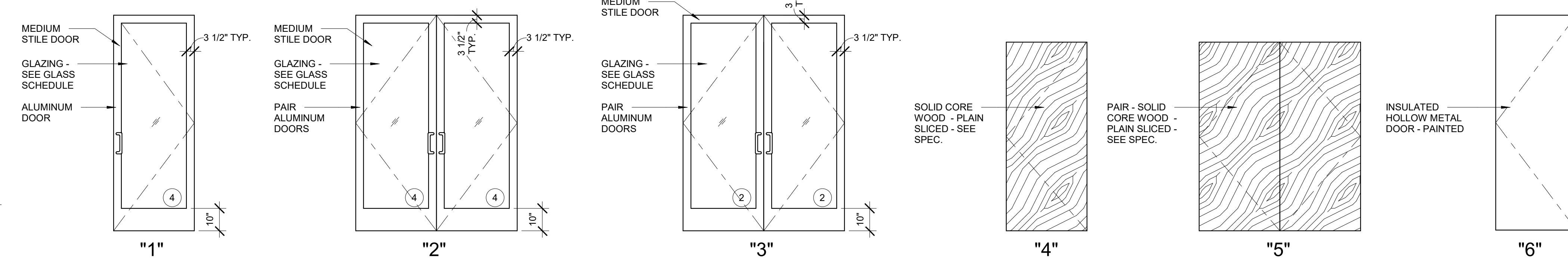
| DOOR # | DOOR  |        | DOOR      |           | FINISH                 | FIRE RATING   | HARDWARE SETS |      | FRAME    |              | THRESHOLD / SILL | SIGNAGE TYPE   | COMMENTS       |                |                       |            |         |  |
|--------|-------|--------|-----------|-----------|------------------------|---------------|---------------|------|----------|--------------|------------------|----------------|----------------|----------------|-----------------------|------------|---------|--|
|        | WIDTH | HEIGHT | DOOR TYPE | THICKNESS |                        |               | MATERIAL      | TYPE | MATERIAL | FINISH       |                  |                |                | FRAME (L) JAMB | FRAME (R) JAMB        | FRAME HEAD |         |  |
| 101    | 3'-0" | 8'-0"  | 1         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 2.0  | A        | ALUMINUM     | CLEAR ANODIZE    | C3/AE-504 SIM  | C3/AE-504      | D3/AE-504      | A1/AE-503 / D3/AE-503 | 1F         |         |  |
| 102    | 6'-0" | 8'-0"  | 2         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 11.0 | B        | ALUMINUM     | CLEAR ANODIZE    | D2/AE-503 SIM  | A1/AE-503      | A1/AE-503      | A1/AE-503 / D3/AE-503 | 1E         |         |  |
| 103    | 6'-0" | 8'-0"  | 3         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 4.0  | C        | ALUMINUM     | CLEAR ANODIZE    | B4/AE-503      | C4/AE-503      | C5/AE-503      | A1/AE-503 / D4/AE-503 | 1E         |         |  |
| 104    | 6'-0" | 8'-0"  | 2         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 1.0  | D        | ALUMINUM     | CLEAR ANODIZE    | D2/AE-503 SIM  | D2/AE-503 SIM  | A4/AE-305      | A1/AE-503             |            | 1E      |  |
| 105    | 6'-0" | 8'-0"  | 3         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 4.0  | E        | ALUMINUM     | CLEAR ANODIZE    | C4/AE-503      | B4/AE-503      | D6/AE-503 SIM  | A1/AE-503 / D4/AE-503 |            | 1E / 1F |  |
| 106    | 6'-0" | 8'-0"  | 2         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 1.0  | F        | ALUMINUM     | CLEAR ANODIZE    | D2/AE-503 SIM  | D2/AE-503 SIM  | D3/AE-504      | A1/AE-503             |            | 1E / 1F |  |
| 107    | 6'-0" | 8'-0"  | 3         | 1 3/4"    | ALUM / GLASS           | CLEAR ANODIZE | NONE          | 4.0  | G        | ALUMINUM     | CLEAR ANODIZE    | B4/AE-503      | D5/AE-503 SIM  | A1/AE-503      |                       |            | 1E / 1F |  |
| 108    | 3'-0" | 8'-0"  | 6         | 1 3/4"    | INSULATED HOLLOW METAL | PAINT         | NONE          | 3.0  | O        | HOLLOW METAL | PAINT            | C1/AE-504      | C1/AE-504      | D1/AE-504      | A1/AE-503             |            | 1G      |  |
| 109    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 110    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 111    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 112    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 113    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 114    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | J        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 115    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 116    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 117    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 118    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 119    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 120    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 121    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | O        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 122    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 5.0  | K        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 123    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 9.0  | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503             |            |         |  |
| 124    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 125    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 11.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1A      |  |
| 126    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 11.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1A      |  |
| 127    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 11.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1A      |  |
| 128    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 11.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1A      |  |
| 129    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 11.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1A      |  |
| 130    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 11.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1A      |  |
| 131    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 9.0  | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503             |            |         |  |
| 132    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 133    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 134    | 3'-0" | 7'-0"  | 5         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 6.0  | N        | HOLLOW METAL | PAINT            | B3/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 135    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 5.0  | K        | HOLLOW METAL | PAINT            | B3/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            | 1D      |  |
| 136    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 6.0  | N        | HOLLOW METAL | PAINT            | B3/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 137    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 14.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1C      |  |
| 138    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 14.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A3/AE-503             |            | 1B      |  |
| 139    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 9.0  | H        | HOLLOW METAL | PAINT            | B1/AE-503      | B1/AE-503      | C2/AE-503      |                       |            |         |  |
| 140    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 12.0 | H        | HOLLOW METAL | PAINT            | B1/AE-503      | B1/AE-503      | C2/AE-503      |                       |            |         |  |
| 141    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 9.0  | H        | HOLLOW METAL | PAINT            | B1/AE-503      | B1/AE-503      | C2/AE-503      |                       |            |         |  |
| 142    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | M        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 143    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 144    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 145    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 146    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 147    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 148    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 149    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 150    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 151    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 152    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 7.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 153    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503             |            |         |  |
| 154    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 155    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 8.0  | L        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 156    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 5.0  | K        | HOLLOW METAL | PAINT            | B2/AE-503      | B3/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            | 1D      |  |
| 157    | 6'-0" | 7'-0"  | 7         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 6.0  | H        | HOLLOW METAL | PAINT            | A1/AE-504      | A1/AE-504      | A4/AE-504      | A2/AE-503             |            |         |  |
| 158    | 6'-0" | 7'-0"  | 5         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 10.0 | H        | HOLLOW METAL | PAINT            | B1/AE-503      | A1/AE-504      | A2/AE-503      |                       |            |         |  |
| 159    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 5.0  | K        | HOLLOW METAL | PAINT            | B3/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503 / D4/AE-503 |            |         |  |
| 160    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 14.0 | H        | HOLLOW METAL | PAINT            | B1/AE-503 F.V. | B1/AE-503 F.V. | C2/AE-503 F.V. | A3/AE-503             |            | 1B      |  |
| 161    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 14.0 | H        | HOLLOW METAL | PAINT            | B1/AE-503 F.V. | B1/AE-503 F.V. | C2/AE-503 F.V. | A3/AE-503             |            | 1C      |  |
| 162    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 9.0  | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503             |            |         |  |
| 163    | 3'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 12.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503             |            |         |  |
| 164    | 2'-0" | 7'-0"  | 4         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 13.0 | H        | HOLLOW METAL | PAINT            | B2/AE-503      | B2/AE-503      | C3/AE-503      | A2/AE-503             |            |         |  |
| 165    | 6'-0" | 7'-0"  | 5         | 1 3/4"    | SOLID CORE WOOD        | TRANSPARENT   | NONE          | 10.0 | H        | HOLLOW METAL | PAINT            | B1/AE-503      | B1/AE-503      | C2/AE-503      | A2/AE-503             |            |         |  |

NOTE THAT ADDITIONAL SIGNAGE (NOT SHOWN ON THIS SHEET) SHALL BE BY OWNER

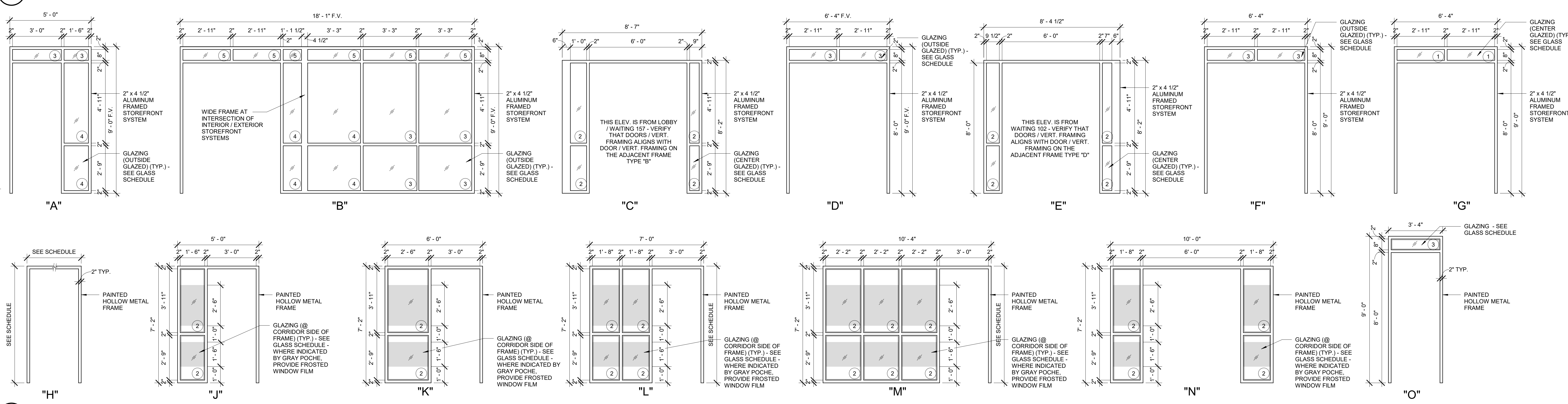
NOTE THAT THE TYPICAL FONT FOR PANEL SIGNS SHALL BE CENTURY GOTHIC UNLESS NOTED OTHERWISE - EXACT TEXT AND GRAPHICS SHALL BE DETERMINED DURING THE SUBMITTAL PROCESS - SIGNS (DESIGN & INSTALLATION) MUST MEET ALL APPLICABLE CODES - SEE G1-007 FOR INSTALLATION LOCATIONS



### PANEL SIGNAGE LEGEND



### DOOR TYPES LEGEND





# WINDOW SCHEDULE

| WINDOW # | R.O.  |        | SILL HEIGHT | WINDOW TYPE | MATERIAL     | FINISH        | GLAZING        |             |           | OPERABLE | GLAZING   |      | COMMENTS   |
|----------|-------|--------|-------------|-------------|--------------|---------------|----------------|-------------|-----------|----------|-----------|------|--|
|          | WIDTH | HEIGHT |             |             |              |               | HEAD           | JAMB        | SILL      |          | THICKNESS | TYPE |  |
| 101      |       |        |             | C           | ALUMINUM     | CLEAR ANODIZE | D3/AE-504      | C3/AE-504   | D3/AE-503 | NONE     |           |      |  |
| 101.1    |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A1/AE-504      | D2/AE-503   | D3/AE-503 | NONE     |           |      |  |
| 101.2    |       |        |             | G           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D2/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 102      |       |        |             | B           | ALUMINUM     | CLEAR ANODIZE | A2/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 103      |       |        |             | B           | ALUMINUM     | CLEAR ANODIZE | A2/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 104      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 105      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 106      |       |        |             | B           | ALUMINUM     | CLEAR ANODIZE | A2/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 107      |       |        |             | B           | ALUMINUM     | CLEAR ANODIZE | A2/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 108      |       |        |             | B           | ALUMINUM     | CLEAR ANODIZE | A2/AE-504      | D1/AE-503   | A2/AE-304 | NONE     |           |      |  |
| 109      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 110      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 111      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 112      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 113      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 114      |       |        |             | G           | ALUMINUM     | CLEAR ANODIZE | A1/AE-504      | D2/AE-503   | D3/AE-503 | NONE     |           |      |  |
| 115      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-504      | D1/AE-503   | A4/AE-304 | NONE     |           |      |  |
| 116      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 117      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 118      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 119      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 120      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 121      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | A4/AE-503      | * C3/AE-504 | A4/AE-503 | NONE     |           |      | * = INTERIOR WALL TO RUN CONT. BEHIND WINDOW - SEE A4/AE-503 |
| 122      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 123      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 124      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 125      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 126      |       |        |             | A           | ALUMINUM     | CLEAR ANODIZE | C1/AE-505      | C3/AE-504   | C1/AE-505 | NONE     |           |      |  |
| 127      |       |        |             | D           | ALUMINUM     | CLEAR ANODIZE | C1/AE-503      | C4/AE-503   | D4/AE-503 | NONE     |           |      |  |
| 128      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 129      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 130      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 131      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 132      |       |        |             | E           | ALUMINUM     | CLEAR ANODIZE | A3/AE-505      | C4/AE-503   | D4/AE-503 | NONE     |           |      |  |
| 133      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 134      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 135      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 136      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 137      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 138      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |
| 139      |       |        |             | F           | HOLLOW METAL | PAINT         | C3/AE-503 SIM. | B3/AE-503   | C1/AE-503 | NONE     |           |      |  |

## GLASS SCHEDULE

1. 1/4" CLEAR ANNEALED GLASS
2. 1/4" CLEAR ANNEALED TEMPERED GLASS
3. 1" INSULATED LOW-E GLASS - OUTSIDE LITE TO BE 1/4" BRONZE TINT, ANNEALED GLASS, LOW-E COATING ON #2 SURFACE, 1/2" ARGON SPACE, INSIDE LITE TO BE 1/4" CLEAR ANNEALED GLASS - GLASS IS TO BE EQUAL TO VITRO "SOLARBAN 70" SOLAR CONTROL LOW-E GLASS
4. 1" INSULATED LOW-E GLASS - OUTSIDE LITE TO BE 1/4" BRONZE TINT, TEMPERED GLASS, LOW-E COATING ON #2 SURFACE, 1/2" ARGON SPACE, INSIDE LITE TO BE 1/4" CLEAR TEMPERED GLASS - GLASS IS TO BE EQUAL TO VITRO "SOLARBAN 70" SOLAR CONTROL LOW-E GLASS
5. 1" INSULATED LOW-E GLASS - BRONZE TINT, SPANDREL GLAZING SYSTEM - SPANDREL GLAZING TO MATCH THE NON-SPANDREL GLAZING APPEARANCE / COLOR ETC. - GLASS IS TO BE EQUAL TO VITRO "SOLARBAN 70" SOLAR CONTROL LOW-E GLASS
6. 1" INSULATED LOW-E GLASS, BRONZE TINT, TEMPERED, SPANDREL GLAZING SYSTEM - SPANDREL GLAZING TO MATCH THE NON-SPANDREL GLAZING APPEARANCE / COLOR ETC. - GLASS IS TO BE EQUAL TO VITRO "SOLARBAN 70" SOLAR CONTROL LOW-E GLASS

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t: 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

STATE OF UTAH  
 PAUL J. POMA  
 PROFESSIONAL ENGINEER  
 NO. 118114  
 02/05/2024

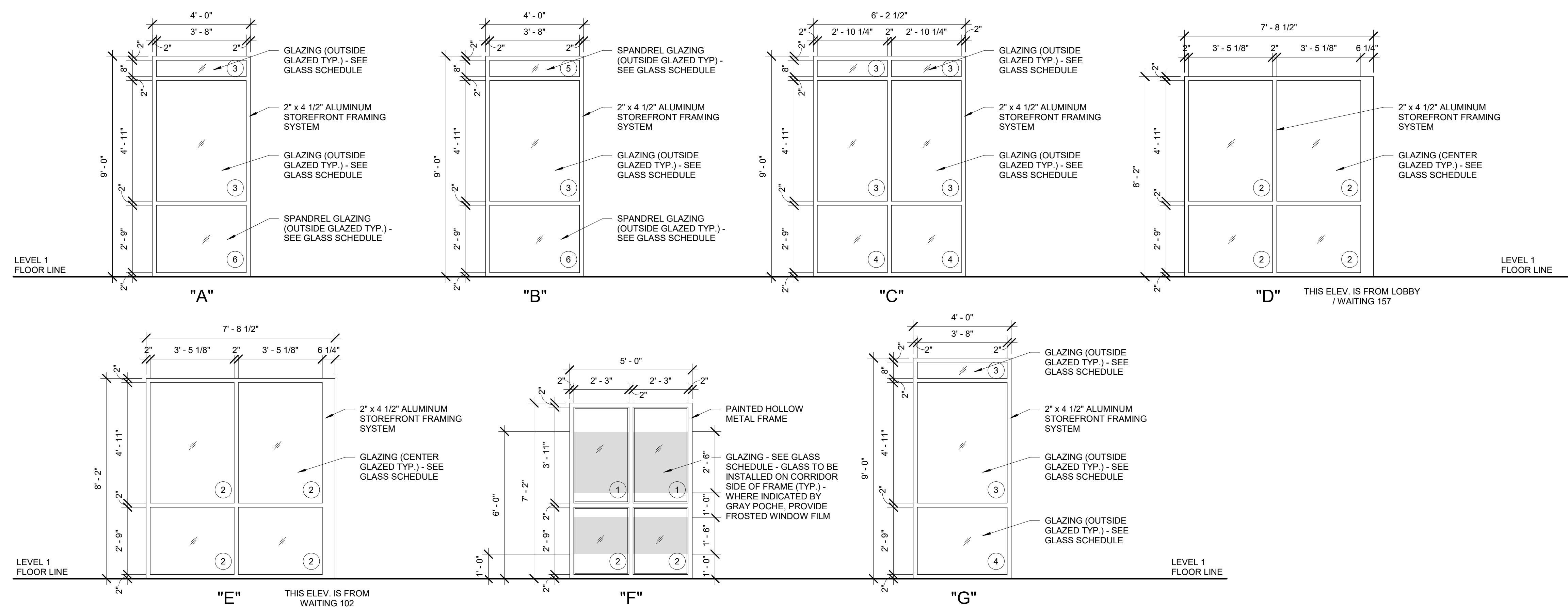
CODE OFFICIAL STAMP

REVIEWED FOR  
 CODE COMPLIANCE  
 03/26/2024  
 OFFICE OF THE CITY CLERK  
 CONSTRUCTION AND  
 MANAGEMENT

PROJECT NAME

BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
 LOGAN, UTAH 84301



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |
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ISSUED:

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |
|     |          |             |
|     |          |             |

OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: GTE  
 CHECKED BY: SPE  
 DESIGNED BY: SPE  
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WINDOW SCHEDULE

AE-602

SHEET NUMBER



ROOM FINISH SCHEDULE

| ROOM # | ROOM NAME               | FLOOR FINISH         | BASE     | BASE FINISH | NORTH WALL MATERIAL  | NORTH WALL FINISH        | EAST WALL MATERIAL   | EAST WALL FINISH | SOUTH WALL MATERIAL  | SOUTH WALL FINISH | WEST WALL MATERIAL   | WEST WALL FINISH | CEILING MATERIAL           | CEILING FINISH | CEILING HEIGHT | COMMENTS  |
|--------|-------------------------|----------------------|----------|-------------|----------------------|--------------------------|----------------------|------------------|----------------------|-------------------|----------------------|------------------|----------------------------|----------------|----------------|---|
| 101    | VEST.                   | WALK OFF CARPET TILE | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | GYP. BD.                   | PAINT          |                |   |
| 102    | WAITING                 | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | GYP. BD.                   | PAINT          |                |   |
| 103    | RECEPTION               | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | GYP. BD.                   | PAINT          |                | * = PROVIDE MAT BLACK PLASTIC LAMINATE ON ENTIRE WALL PRIOR TO INSTALLING BATTEN SYSTEM                               |
| 104    | COPY                    | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | GYP. BD.                   | PAINT          |                |   |
| 105    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD. / EXTG. CMU | PAINT                    | GYP. BD.             | PAINT            | GYP. BD. / TILE      | PAINT             | GYP. BD. / EXTG. CMU | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 106    | ALCOVE                  | LUXURY VINYL PLANK   | RUBBER   | NONE        | OPEN                 | -                        | GYP. BD.             | PAINT            | GYP. BD. / TILE      | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 107    | VEST.                   | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | TILE           |                |   |
| 108    | VEST.                   | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | TILE           |                |   |
| 109    | MEN                     | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | TILE           |                |   |
| 110    | WOMEN                   | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | TILE           |                |   |
| 111    | OFFICE                  | EXTG. CARPET         | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | GYP. BD.             | PAINT            | EXTG. GYP. BD.       | PAINT             | EXTG. GYP. BD.       | PAINT            | EXTG. GYP. BD.             | PAINT          |                |   |
| 112    | FUTURE INNOVATION LAB   | EXTG. EPOXY          | * RUBBER | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | GYP. BD.             | PAINT            | EXTG. GYP. BD.       | NONE              | EXTG. GYP. BD.       | NONE             | EXTG. CMU                  | NONE           |                | * = @ NEW WALLS ONLY  |
| 113    | FUTURE HALL             | EXTG. EPOXY          | * RUBBER | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | OPEN                 | OPEN              | OPEN                 | OPEN             | OPEN TO STRUCTURE          | NONE           |                | * = @ NEW WALLS ONLY  |
| 114    | STORAGE                 | SEALED CONCRETE      | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 115    | JAN.                    | SEALED CONCRETE      | RUBBER   | NONE        | GYP. BD.             | PAINT / TILE             | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT / TILE     | OPEN TO STRUCTURE          | NONE           |                |   |
| 116    | ELECT.                  | SEALED CONCRETE      | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 117    | FUTURE FLEX SPACE       | EXTG. EPOXY          | * RUBBER | NONE        | GYP. BD.             | PAINT                    | EXTG. GYP. BD.       | * PAINT          | EXTG. GYP. BD.       | NONE              | GYP. BD. / OPEN      | * PAINT          | OPEN TO STRUCTURE          | NONE           |                | * = @ NEW WALLS ONLY ** = EXTENT OF FINISHES ON EXTG. WALLS TO BE AS MINIMAL AS POSSIBLE TO BLEND WITH EXTG. FINISHES |
| 118    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | OPEN                 | -                        | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 119    | CONF.                   | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 120    | CONF.                   | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 121    | CLASSROOM               | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 122    | CLASSROOM               | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 123    | CLASSROOM               | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 124    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | NEW & EXTG. GYP. BD. | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 124.1  | LOUNGE                  | LUXURY VINYL PLANK   | RUBBER   | NONE        | ALUM. BATTENS        | * PRE-FINISHED WOOD LOOK | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | GYP. BD.                   | PAINT          |                | * = PROVIDE MAT BLACK PLASTIC LAMINATE ON ENTIRE WALL PRIOR TO INSTALLING BATTEN SYSTEM                               |
| 125    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | OPEN                 | -                        | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | NEW & EXTG. GYP. BD. | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 125.1  | ELEC.                   | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 126    | PASSAGE                 | LUXURY VINYL PLANK   | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | EXTG. GYP. BD.       | PAINT            | EXTG. GYP. BD.       | PAINT             | EXTG. GYP. BD.       | PAINT            | EXTG. GYP. BD.             | PAINT          |                |   |
| 127    | MEN                     | TILE                 | TILE     | NONE        | EXTG. GYP. BD.       | TILE                     | EXTG. GYP. BD.       | TILE             | NEW & EXTG. GYP. BD. | PAINT / TILE      | EXTG. GYP. BD.       | TILE             | EXTG. GYP. BD.             | PAINT          |                |   |
| 128    | WOMEN                   | TILE                 | TILE     | NONE        | NEW & EXTG. GYP. BD. | PAINT / TILE             | EXTG. GYP. BD.       | TILE             | EXTG. GYP. BD.       | TILE              | EXTG. GYP. BD.       | TILE             | EXTG. GYP. BD.             | PAINT          |                |   |
| 129    | FUTURE KITCHEN / DINING | EXTG. VCT            | * RUBBER | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | GYP. BD.             | * PAINT          | EXTG. GYP. BD.       | NONE              | EXTG. GYP. BD.       | NONE             | OPEN TO STRUCTURE          | NONE           |                | * = @ NEW WALLS ONLY ** = EXTENT OF FINISHES ON EXTG. WALLS TO BE AS MINIMAL AS POSSIBLE TO BLEND WITH EXTG. FINISHES |
| 130    | CLASSROOM               | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 131    | RISER                   | SEALED CONCRETE      | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 132    | VEST.                   | WALK OFF CARPET TILE | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | EXTG. GYP. BD.       | PAINT             | GYP. BD.             | PAINT            | GYP. BD.                   | PAINT          |                |   |
| 133    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 134    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 135    | I.T.                    | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 136    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 137    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 138    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 139    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 140    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 141    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 142    | CLASSROOM               | CARPET TILE PLANK    | RUBBER   | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | EXTG. GYP. BD.       | PAINT            | * EXTG. LAY-IN AC PANEL    | NONE           |                | * = MODIFY EXTG. WHERE AFFECTED BY NEW WORK   |
| 142.1  | PRV. CLOSET             | SEALED CONCRETE      | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 143    | CONF. / MEETING         | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 144    | CONF.                   | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | NEW & EXTG. GYP. BD. | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 145    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | OPEN                 | -                 | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 146    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | EXTG. GYP. BD.       | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 147    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | EXTG. GYP. BD.       | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 148    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | NEW & EXTG. GYP. BD. | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 149    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | EXTG. GYP. BD.       | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 150    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | EXTG. GYP. BD.       | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 151    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | NEW & EXTG. GYP. BD. | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 152    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 153    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 154    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | OPEN                 | -                | LAY-IN AC PANEL            | NONE           |                |   |
| 155    | CONF.                   | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 156    | VEST.                   | WALK OFF CARPET TILE | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | GYP. BD.             | PAINT            | GLASS                | NONE              | GLASS                | NONE             | GYP. BD.                   | PAINT          |                |   |
| 157    | LOBBY / WAITING         | LUXURY VINYL PLANK   | RUBBER   | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | GYP. BD.                   | PAINT          |                |   |
| 158    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | OPEN                 | OPEN             | GYP. BD.             | PAINT             | NEW & EXTG. GYP. BD. | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 159    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 160    | OFFICE                  | CARPET TILE PLANK    | RUBBER   | NONE        | NEW & EXTG. GYP. BD. | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | NEW & EXTG. GYP. BD. | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 161    | WORK RM.                | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | EXTG. GYP. BD.       | PAINT             | EXTG. GYP. BD.       | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 162    | ELEC.                   | SEALED CONCRETE      | RUBBER   | NONE        | EXTG. GYP. BD.       | PAINT                    | GYP. BD.             | PAINT            | EXTG. GYP. BD.       | PAINT             | EXTG. GYP. BD.       | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 163    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL / GYP. BD. | PAINT GYP. BD. |                |   |
| 164    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | PAINT / TILE         | GYP. BD.          | PAINT                | GYP. BD.         | LAY-IN AC PANEL            | NONE           |                |   |
| 165    | T.R.                    | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | PAINT          |                |   |
| 166    | T.R.                    | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | PAINT          |                |   |
| 167    | T.R.                    | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | PAINT          |                |   |
| 168    | T.R.                    | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | PAINT          |                |   |
| 169    | T.R.                    | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | PAINT          |                |   |
| 170    | T.R.                    | TILE                 | TILE     | NONE        | GYP. BD.             | TILE                     | GYP. BD.             | TILE             | GYP. BD.             | TILE              | GYP. BD.             | TILE             | GYP. BD.                   | PAINT          |                |   |
| 171    | CORRIDOR                | LUXURY VINYL PLANK   | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | LAY-IN AC PANEL            | NONE           |                |   |
| 172    | I.T.                    | CARPET TILE PLANK    | RUBBER   | NONE        | GYP. BD.             | PAINT                    | GYP. BD.             | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 173    | JAN.                    | SEALED CONCRETE      | RUBBER   | NONE        | GYP. BD.             | PAINT                    | NEW & EXTG. GYP. BD. | PAINT            | GYP. BD.             | PAINT             | GYP. BD.             | PAINT            | OPEN TO STRUCTURE          | NONE           |                |   |
| 174    | PIPE CHASE              | CONCRETE             | NONE     | NONE        | EXPOSED MTL. STUDS   | NONE                     | EXPOSED MTL. STUDS   | NONE             | EXPOSED MTL. STUDS   | NONE              | EXPOSED MTL. STUDS   | NONE             | OPEN TO STRUCTURE          | NONE           |                |   |

**FINISHES OF EXISTING SURFACES NOTE:**  
NOTE THAT ANY EXISTING SURFACES / MATERIALS SCHEDULED FOR NEW FINISHES SHALL BE MODIFIED, PATCHED, REPAIRED AS REQ'D. FOR A FLUSH, FINISHED FINAL APPEARANCE - FIELD VERIFY ALL SUCH RELATED WORK AND COORDINATE AS REQUIRED

**ACCENT WALL PAINT NOTE:**  
THE ARCHITECT SHALL BE ALLOWED 1/3 OF THE TOTAL WALL AREA TO BE PAINTED WITH AN ACCENT PAINT COLOR(S). THE LOCATION OF THE ACCENT WALLS WILL BE DETERMINED DURING CONSTRUCTION.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

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PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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**FINISH SCHEDULE**

SHEET NUMBER:  
**AF-601**





D1 LOUNGE VIEW 01



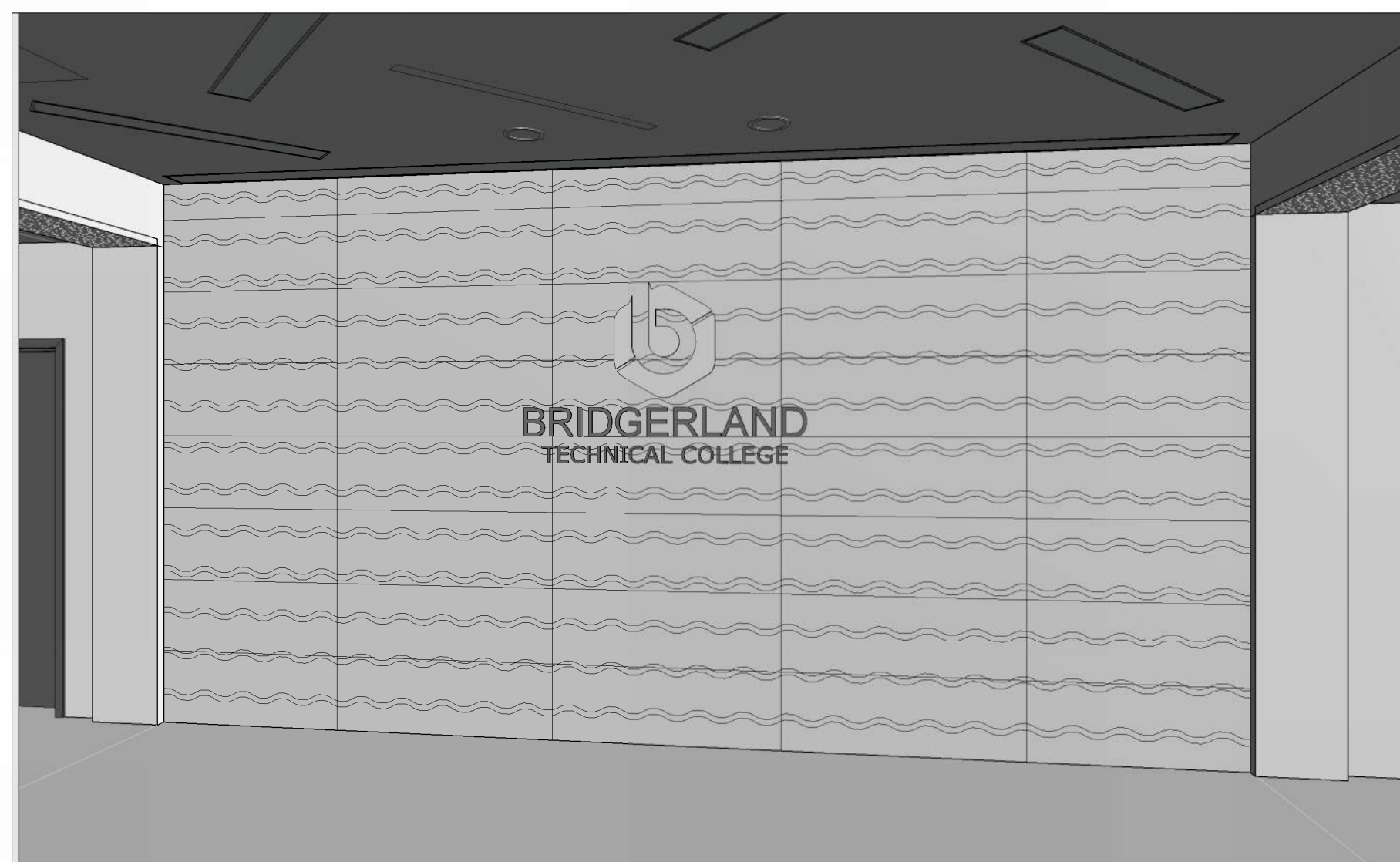
D2 LOUNGE VIEW 02



B1 RECEPTION VIEW 01



B2 EVENT SPACE ENTRY



A1 NORTH LOBBY VIEW



A2 LARGE MENS RESTROOM



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com



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**3D IMAGES**

SHEET NUMBER:  
**AE-901**



## MECHANICAL LEGEND

| SYMBOL              | ABR.   | DESCRIPTION  | SYMBOL   | ABR. | DESCRIPTION                        | SYMBOL   | ABR. | DESCRIPTION                     | SYMBOL   | ABR.  | DESCRIPTION                      |
|---------------------|--------|--|----------|------|------------------------------------|----------|------|---------------------------------|----------|-------|----------------------------------|
| GENERAL TERMINOLOGY |        |  | AIR SIDE |      |                                    | WET SIDE |      |                                 | WET SIDE |       |                                  |
|                     |        | SECTION LETTER DESIGNATION<br>SECTION DRAWN ON THIS SHEET                      |          |      | EXISTING AIR DUCT TO BE REMOVED    |          |      | PUMP                            |          |       | PITCH DOWN                       |
|                     |        | DETAIL NUMBER DESIGNATION<br>CORRESPONDING WITH GRID<br>LOCATION               |          |      | EXISTING AIR DUCT TO REMAIN        |          |      | REGULATOR                       |          |       | ELBOW UP/DN                      |
|                     |        | MECHANICAL EQUIPMENT DESIGNATION<br>EQUIPMENT ITEM DESIGNATION                 |          |      | NEW AIR DUCT                       |          |      | UNION                           |          |       | TEE UP/DN                        |
|                     |        | REGISTER, GRILLE OR DIFFUSER<br>DESIGNATION WITH BALANCING CFM<br>LISTED BELOW |          |      | RECT TO RECT AIR DUCT TAKE-OFF     |          |      | MANUAL ACTUATOR                 |          |       | EXISTING PIPING TO BE REMOVED    |
|                     |        | GRILLE OR LOUVER DESIGNATION<br>WHERE BALANCING NOT REQUIRED                   |          |      | RECT TO RND AIR DUCT TAKE-OFF      |          |      | PNEUMATIC DIAPHRAM ACTUATOR     |          |       | EXISTING PIPING TO REMAIN        |
|                     |        | REVISION DESIGNATOR AND NUMBER   |          |      | RND TO RND AIR DUCT TAKE-OFF       |          |      | ELECTRIC MOTOR ACTUATOR         |          |       | NEW PIPING                       |
|                     |        | KEY NOTE DESIGNATOR AND NUMBER   |          |      | MEDIUM PRESSURE TAKE-OFF           |          |      | SOLENOID ACTUATOR               |          |       | PIPE CAP OR PLUG                 |
|                     | POC    | POINT OF CONNECTION  |          |      | FLEXIBLE AIR DUCT                  |          |      | BUTTERFLY VALVE                 |          |       | REDUCER - CONCENTRIC / ECCENTRIC |
|                     | POR    | POINT OF REMOVAL   |          |      | LINED DUCT                         |          |      | GATE VALVE                      |          |       | EXPANSION JOINT                  |
|                     | AFF    | ABOVE FINISHED FLOOR   |          |      | RADIUS ELBOW                       |          |      | GLOBE VALVE - STRAIGHT PATTERN  |          |       | FLEXIBLE CONNECTION              |
|                     | AP     | ACCESS PANEL   |          |      | ECCENTRIC DUCT TRANSITION          |          |      | GLOBE VALVE - ANGLE PATTERN     |          |       | ANCHOR POINT                     |
|                     | C EL   | CENTERLINE ELEVATION   |          |      | CONCENTRIC DUCT TRANSITION         |          |      | MOTORIZED 2-WAY CONTROL VALVE   |          | CD    | CONDENSATE DRAIN                 |
|                     | GC     | GENERAL CONTRACTOR   |          |      | VOLUME DAMPER                      |          |      | MOTORIZED 3-WAY CONTROL VALVE   |          | G     | NATURAL GAS PIPING               |
|                     | MC     | MECHANICAL CONTRACTOR  |          |      | SUPPLY AIR DIFFUSER                |          |      | PRV                             |          | CF    | CHEMICAL FEED LINE               |
|                     | ATC    | CONTROLS CONTRACTOR  |          |      | RETURN & TRANSFER AIR GRILLE       |          |      | CHECK VALVE                     |          | GF    | GLYCOL FILL LINE                 |
|                     | EC     | ELECTRICAL CONTRACTOR  |          |      | EXHAUST GRILLE OR CEILING EXH. FAN |          |      | CIRCUIT BALANCING VALVE         |          | MU    | MAKE-UP WATER LINE               |
|                     | FPC    | FIRE PROTECTION CONTRACTOR   |          |      | RETURN & OUTSIDE AIR DUCT UP/DN    |          |      | BALL VALVE                      |          | CW    | CULINARY COLD WATER              |
|                     | NIC    | NOT IN CONTRACT  |          |      | RETURN & OA ROUND DUCT UP/DN       |          |      | PRESSURE RELIEF VALVE           |          | HW    | CULINARY HOT WATER               |
|                     | NTS    | NOT TO SCALE   |          |      | SUPPLY AIR DUCT UP/DN              |          |      | THERMAL RELIEF VALVE            |          | HWREC | CULINARY HOT WATER RECIRC        |
|                     | VCP    | VITRIFIED CLAY PIPE  |          |      | SUPPLY AIR ROUND DUCT UP/DN        |          |      | SAFETY RELIEF VALVE             |          | HWS   | HEATING WATER SUPPLY             |
|                     | C      | COMMON   |          |      | EXHAUST AIR DUCT UP/DN             |          |      | PLUG VALVE                      |          | HWR   | HEATING WATER RETURN             |
|                     | NC     | NORMALLY CLOSED  |          |      | EXHAUST AIR ROUND DUCT UP/DN       |          |      | NEEDLE VALVE                    |          | CHWS  | CHILLED WATER SUPPLY             |
|                     | NO     | NORMALLY OPEN  |          |      | ACCESS PANEL                       |          |      | TRIPLE DUTY VALVE               |          | CHWR  | CHILLED WATER RETURN             |
|                     | EA     | EXHAUST AIR  |          |      | EXISTING EQUIPMENT TO BE REMOVED   |          |      | AUTOMATIC AIR VENT              |          | HTWS  | HIGH TEMP HEATING WATER SUPPLY   |
|                     | OA     | OUTSIDE AIR  |          |      | EXISTING EQUIPMENT TO REMAIN       |          |      | MANUAL AIR VENT                 |          | HTWR  | HIGH TEMP HEATING WATER RETURN   |
|                     | MA     | MIXED AIR  |          |      | NEW EQUIPMENT                      |          |      | STRAINER                        |          | LPS   | LOW PRESSURE STEAM               |
|                     | RF     | RELIEF AIR   |          |      | SUPPLY AIR                         |          |      | STRAINER W/ PLUG BLOW OFF       |          | LPR   | LOW PRESSURE STEAM RETURN        |
|                     | FO     | FLAT OVAL  |          |      | RETURN AIR                         |          |      | VENTURI                         |          | HPS   | HIGH PRESSURE STEAM              |
|                     | MVD    | MOTORIZED VOLUME DAMPER  |          |      | EXHAUST AIR                        |          |      | PRESSURE GAUGE W/ COCK - WATER  |          | HPR   | HIGH PRESSURE STEAM RETURN       |
|                     | BD     | BACKDRAFT DAMPER   |          |      | OUTSIDE AIR                        |          |      | PRESSURE GAUGE W/ COCK - STEAM  |          | CS    | CONDENSER SUPPLY                 |
|                     | FD     | FIRE DAMPER  |          |      | MIXED AIR                          |          |      | THERMOMETER & THERMOWELL        |          | CR    | CONDENSER RETURN                 |
|                     | SD     | SMOKE DAMPER   |          |      | RELIEF AIR                         |          |      | WATER TEMP SENSOR & THERMOWELL  |          | PC    | PUMPED CONDENSATE                |
|                     | FS     | FIRE & SMOKE DAMPER  |          |      | FLAT OVAL                          |          |      | FLOW SWITCH                     |          | L     | REFRIGERANT LIQUID               |
|                     | T-STAT | WALL MOUNTED THERMOSTAT  |          |      | MOTORIZED VOLUME DAMPER            |          |      | PRESSURE SWITCH                 |          | S     | REFRIGERANT SUCTION              |
|                     | S      | WALL MOUNTED TEMP. SENSOR  |          |      | BACKDRAFT DAMPER                   |          |      | THERMOWELL                      |          | HG    | REFRIGERANT HOT GAS              |
|                     | H-STAT | WALL MOUNTED HUMIDISTAT  |          |      | FIRE DAMPER                        |          |      | PRESSURE & TEMP TAP             |          | FOS   | FUEL OIL SUPPLY                  |
|                     | F-STAT | WALL MOUNTED FIRESTAT  |          |      | SMOKE DAMPER                       |          |      | INVERTED BUCKET STEAM TRAP      |          | FOR   | FUEL OIL RETURN                  |
|                     | F-STAT | WALL MOUNTED FIRESTAT  |          |      | FIRE & SMOKE DAMPER                |          |      | THERMOSTATIC STEAM TRAP         |          | FOV   | FUEL OIL VENT                    |
|                     | F-STAT | WALL MOUNTED FIRESTAT  |          |      | WALL MOUNTED TEMP. SENSOR          |          |      | FLOAT & THERMOSTATIC STEAM TRAP |          |       |                                  |
|                     | F-STAT | WALL MOUNTED FIRESTAT  |          |      | WALL MOUNTED HUMIDISTAT            |          |      | DIRECTION OF FLOW               |          |       |                                  |
|                     | F-STAT | WALL MOUNTED FIRESTAT  |          |      | WALL MOUNTED FIRESTAT              |          |      | BACKFLOW PREVENTING VALVE       |          |       |                                  |

### GENERAL NOTES

**G-1** - MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION OF THE EXISTING BUILDING AND SITE CONDITIONS, EXISTING PIPING, EXISTING ELECTRICAL, AND EXISTING SUPPORTS.

**A** - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

**B** - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

**C** - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

**D** - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

**E** - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

**G-2** - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

**G-3** - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

**G-4** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

**G-5** - THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

**G-6** - MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

**G-7** - SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

**G-8** - PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

**G-9** - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

**G-10** - PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

**G-11** - THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

**G-12** - THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

**G-13** - C.F.M. LISTED IS ACTUAL AIR.

**G-14** - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

**G-15** - CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

**G-16** - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2021 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

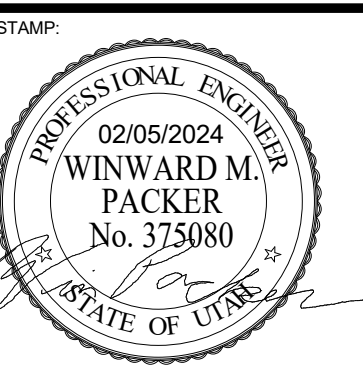
**G-17** - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND REFILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN REFILLING THE SYSTEM.

**G-18** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

**G-19** - PROVIDE FIRE SPRINKLER MODIFICATIONS PER PERFORMANCE SPECIFICATION THROUGH NICET LEVEL 3 CERTIFIED DESIGN BUILD FIRE SPRINKLER CONTRACTOR.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com



PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

840 WEST 1400 NORTH  
LOGAN, UTAH 84321

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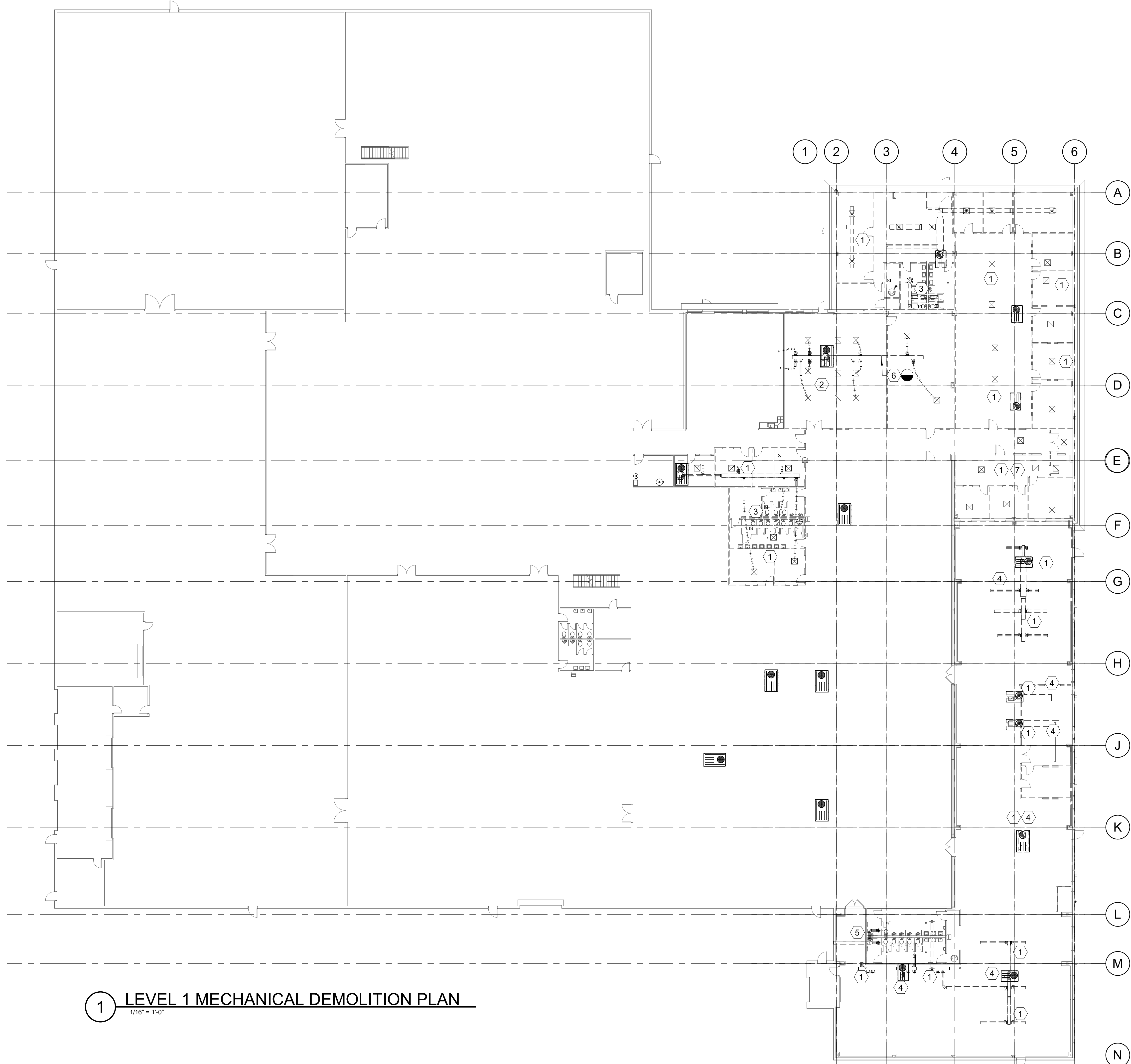
**MECHANICAL  
LEGEND AND  
GENERAL NOTES**

SHEET NUMBER:  
**MG001**



**WHW  
ENGINEERING LLC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
1818 Sandy Parkway, Suite 101  
SANDY, UTAH 84073  
(801)966-4025 FAX 801-966-5058  
EMAIL: wwh@whw-engineering.com



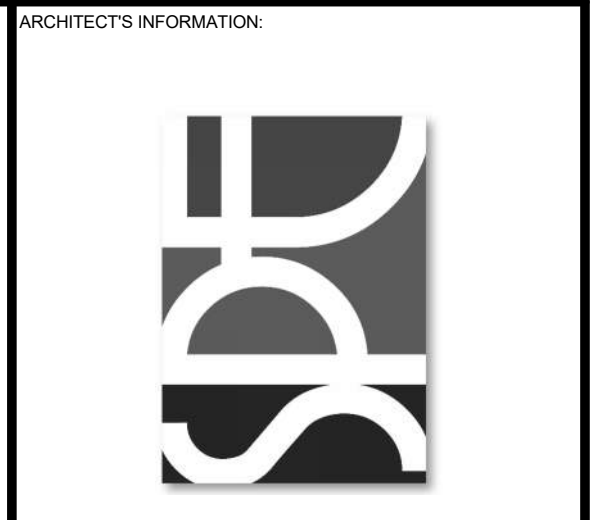


**1 LEVEL 1 MECHANICAL DEMOLITION PLAN**  
1/16" = 1'-0"

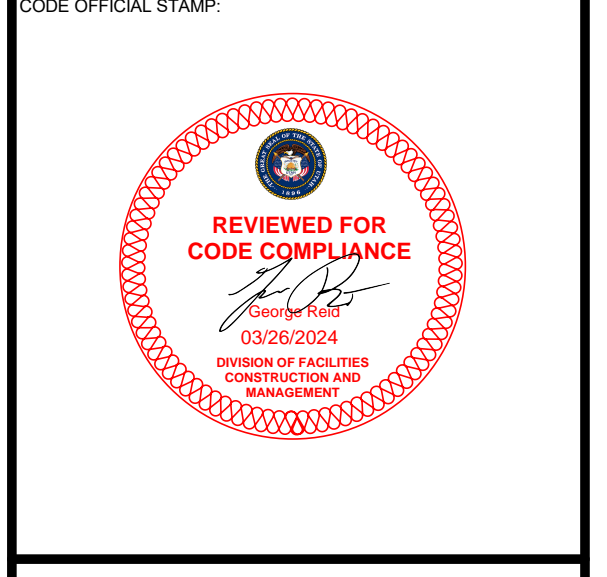
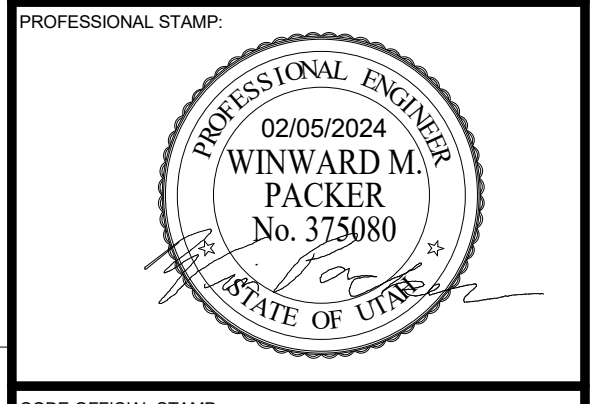
**SHEET NOTES**

- 1 REMOVE ALL EXISTING SUPPLY DUCTWORK AND ALL ASSOCIATED ITEMS IN THE APPROXIMATE LOCATION BACK TO THE AIR HANDLER ON THE ROOF. FIELD VERIFY.
- 2 ALL DUCT WORK AND ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION SHALL REMAIN.
- 3 REMOVE ALL EXISTING EXHAUST DUCTWORK AND ALL ASSOCIATED ITEMS BACK TO EXHAUST FAN ON THE ROOF. FIELD VERIFY.
- 4 REMOVE ALL EXISTING RETURN DUCTWORK AND ALL ASSOCIATED ITEMS BACK TO AIR HANDLER ON ROOF. FIELD VERIFY.
- 5 REMOVE ALL EXISTING EXHAUST DUCTWORK AND ALL ASSOCIATED ITEMS BACK TO SIDE WALL EXHAUST FAN. FIELD VERIFY.
- 6 REMOVE SUPPLY DUCTWORK AND ALL ASSOCIATED ITEMS BACK TO THIS APPROXIMATE LOCATION AND CAP. FIELD VERIFY EXACT ROUTING AND POINTS OF REMOVAL.
- 7 EXISTING PIPING IN THIS APPROXIMATE LOCATION SHALL BE RAISED TO FIT WITHIN THE NEW CEILING HEIGHTS AS NEEDED. FIELD VERIFY.

**GENERAL NOTES:**  
1. NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1366  
info@spe-architect.com  
www.spe-architect.com



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**MECHANICAL DEMOLITION LEVEL 1**

SHEET NUMBER:  
**MD101**



**WHW ENGINEERING LLC**  
PROFESSIONAL MECHANICAL ENGINEERING  
1819 Sandy Parkway, Suite 101  
SANDY, UTAH 84070  
(801)966-4022 FAX 801-966-5028  
EMAIL: wwh@whw-engineering.com









**1 LEVEL 1 MECHANICAL FLOOR PLAN**  
1/16" = 1'-0"

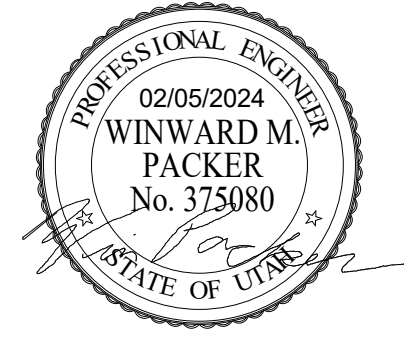
**SHEET NOTES**

**ARCHITECTS INFORMATION**




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1366  
info@spe-architect.com  
www.spe-architect.com

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**MECHANICAL FLOOR PLANS**

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**WHW  
ENGINEERING LLC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
1819 Sandy Parkway, Suite 101  
SANDY, UTAH 84070  
(801)966-4022 FAX 801-966-5028  
EMAIL: wwh@whw-engineering.com





1 MECHANICAL GRD PLAN  
1/16" = 1'-0"

SHEET NOTES

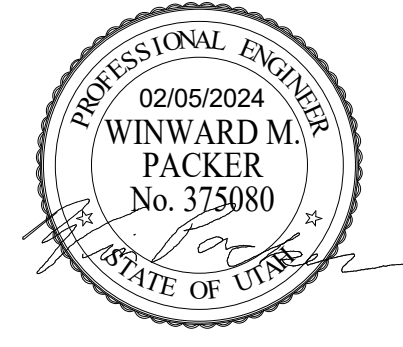
#

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP



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PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: AE  
CHECKED BY: WP  
DESIGNED BY: WP  
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SHEET TITLE

**MECHANICAL  
GRD PLAN**

SHEET NUMBER

**ME101.2**

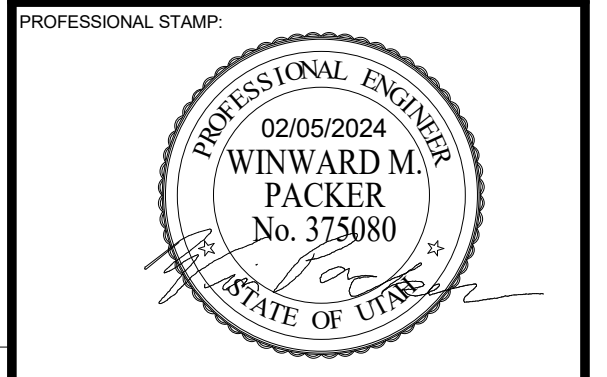


**WHW  
ENGINEERING LLC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
1819 Sandy Parkway, Suite 101  
SANDY, UTAH 84070  
(801) 586-4025 FAX 801-586-5028  
EMAIL: wwh@whw-engineering.com



**SHEET NOTES** #

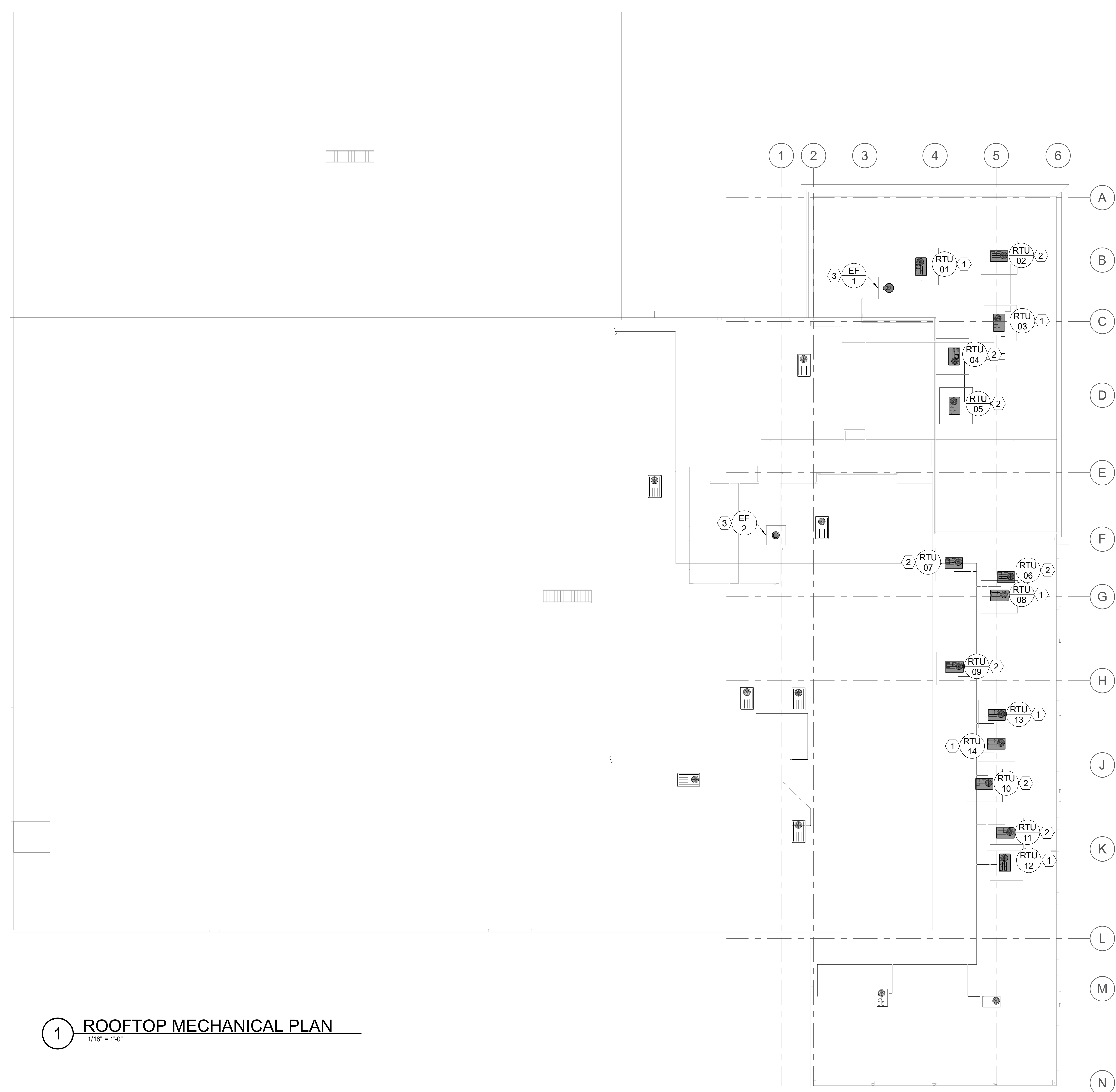
- 1 PROVIDE NEW PACKAGED ROOFTOP HVAC UNIT IN SAME LOCATION AS EXISTING UNIT THAT WAS REMOVED. PROVIDE WITH ALL NEW CURB AND COORDINATE WITH ARCHITECT FOR ROOF PATCHING AND REPAIRS.
- 2 PROVIDE NEW PACKAGED ROOFTOP HVAC UNIT IN NEW LOCATION. COORDINATE WITH ARCHITECT AND STRUCTURAL FOR ROOF CUTTING, PATCHING, REPAIR AND STRUCTURAL SUPPORTS.
- 3 PROVIDE NEW EXHAUST FAN IN THE SAME LOCATION AS THE EXISTING UNIT THAT WAS REMOVED. PROVIDE WITH ALL NEW CURB AND COORDINATE WITH ARCHITECT FOR ROOF PATCHING AND REPAIRS.



PROJECT NAME:

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**1 ROOFTOP MECHANICAL PLAN**  
 1/16" = 1'-0"

REVISIONS

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SHEET TITLE:

**ROOFTOP MECHANICAL FLOOR PLANS**

SHEET NUMBER:

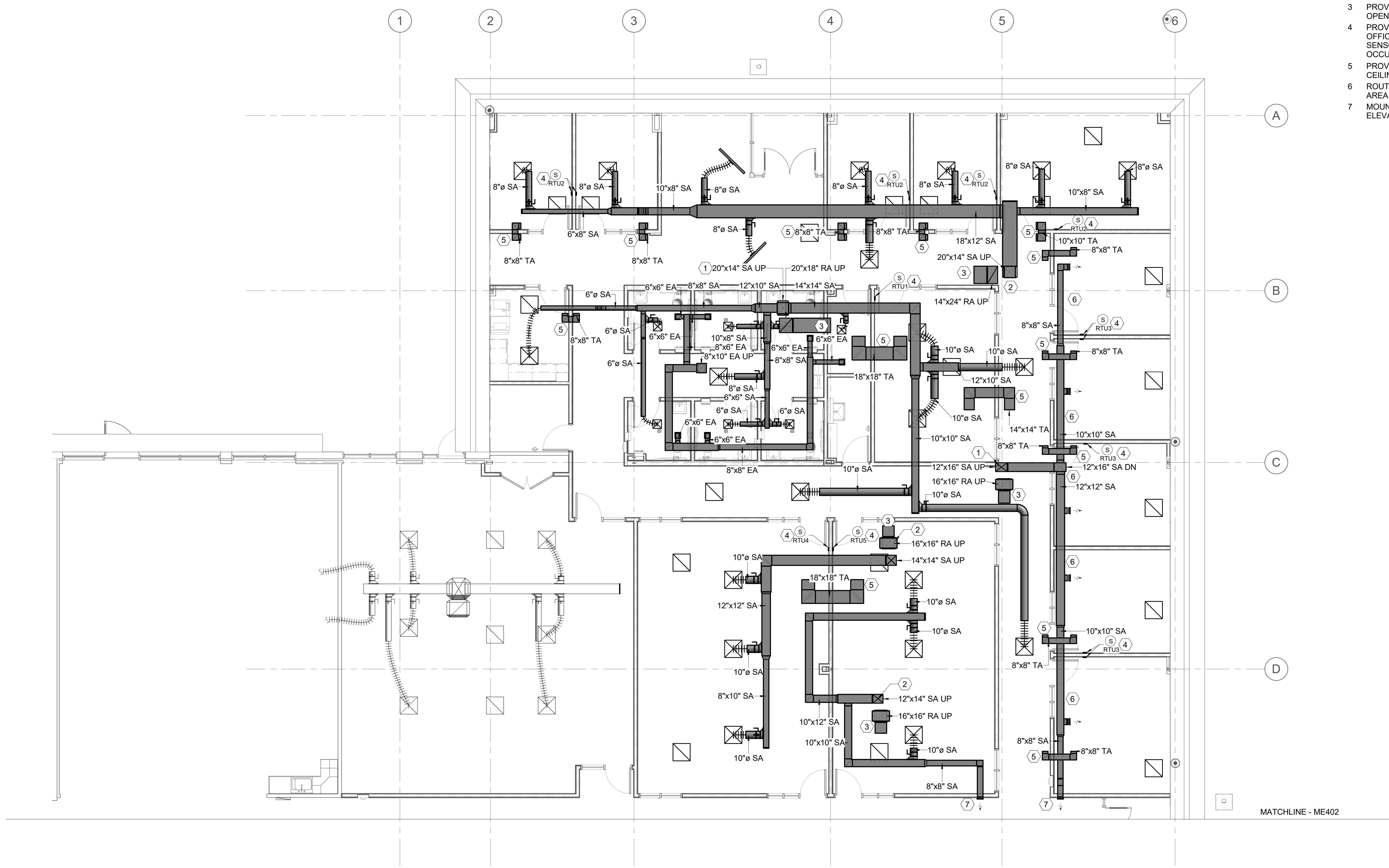
**ME102**



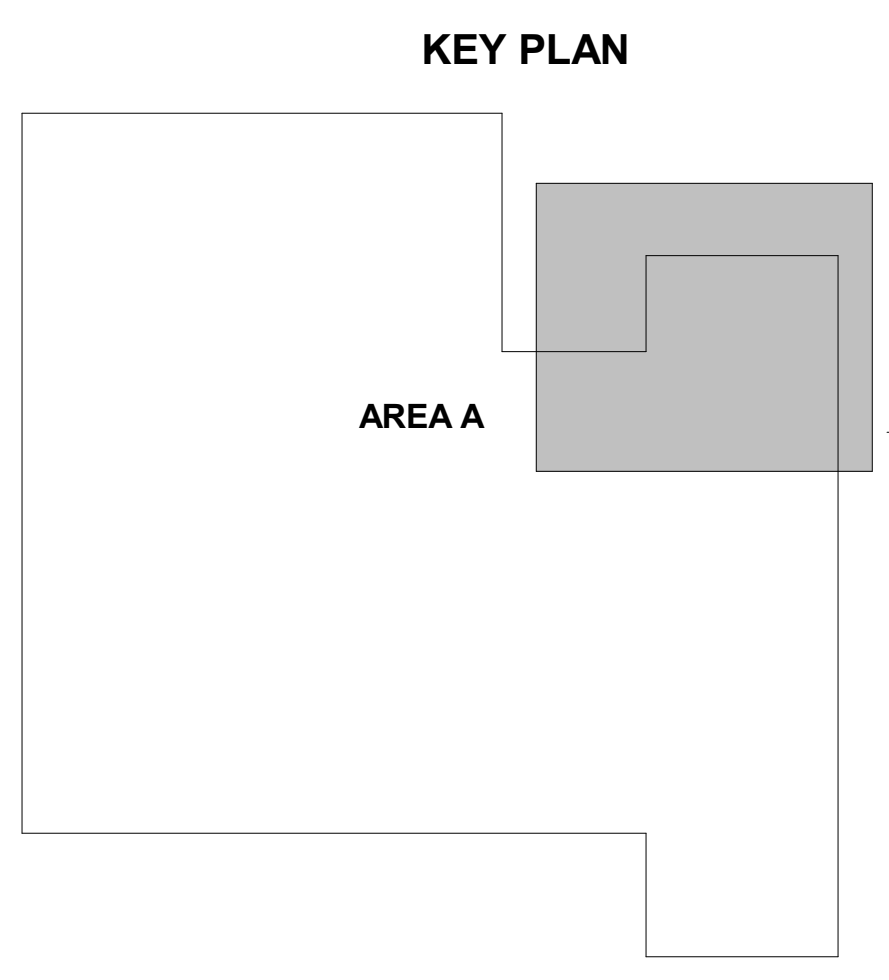


**SHEET NOTES**

- PROVIDE NEW DUCT DROPS FROM NEW RTU AT EXISTING ROOF PENETRATION LOCATIONS. SEE SHEET ME102 FOR ROOF MECHANICAL PLAN.
- PROVIDE NEW DUCT DROPS FROM NEW RTU AT NEW LOCATIONS. SEE SHEET ME102 FOR ROOF MECHANICAL PLAN.
- PROVIDE RETURN AIR SOUND BOOT FROM RTU AND OPEN TO RA PLENUM ABOVE CEILING.
- PROVIDE REMOTE DDC MASTER SENSOR FOR EACH OFFICE - NO ADJUSTMENT. REMOTE DDC AVERAGING SENSOR FOR EACH OFFICE - WITH PUSH BUTTON OCCUPANCY - 3 HOUR OVER RIDE.
- PROVIDE LINED RETURN AIR SOUND BOOT ABOVE CEILING.
- ROUTE DUCTWORK IN ARCHITECTURAL SOFFET IN THIS AREA. COORDINATE WITH ARCH PLANS.
- MOUNT SIDEWALL SUPPLY GRILLES AT SAME ELEVATION.



**1** LARGE SCALE MECHANICAL FLOOR PLAN - AREA A  
 3/16" = 1'-0"



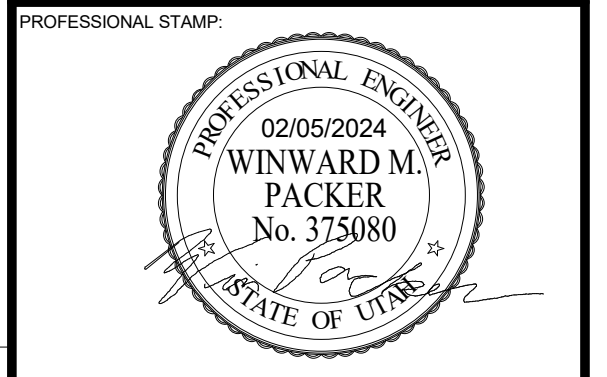






**SHEET NOTES**

- BALANCE DIFFUSER TO CFM SHOWN.
- MOVE EXISTING DIFFUSERS AND GRILLES AS NEEDED IN THIS APPROXIMATE LOCATION TO MATCH CEILING GRID.



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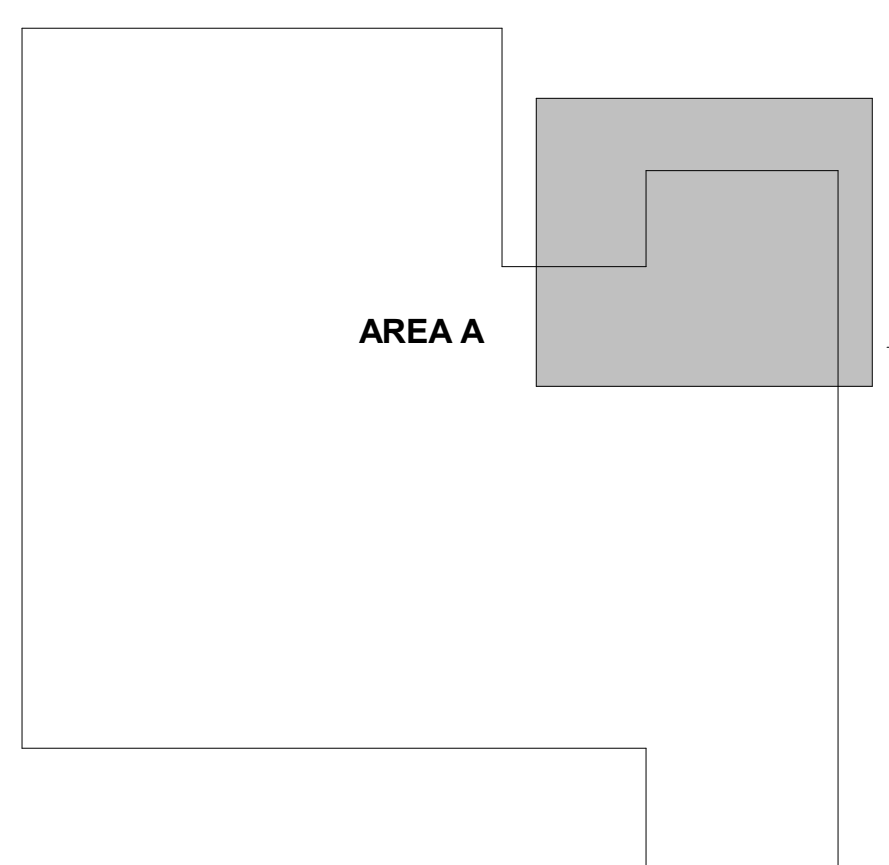
SHEET TITLE:  
**MECHANICAL  
 LARGE SCALE  
 PLANS**

SHEET NUMBER:  
**ME403**



**1** LARGE SCALE MECHANICAL GRD PLAN - AREA A  
 3/16" = 1'-0"

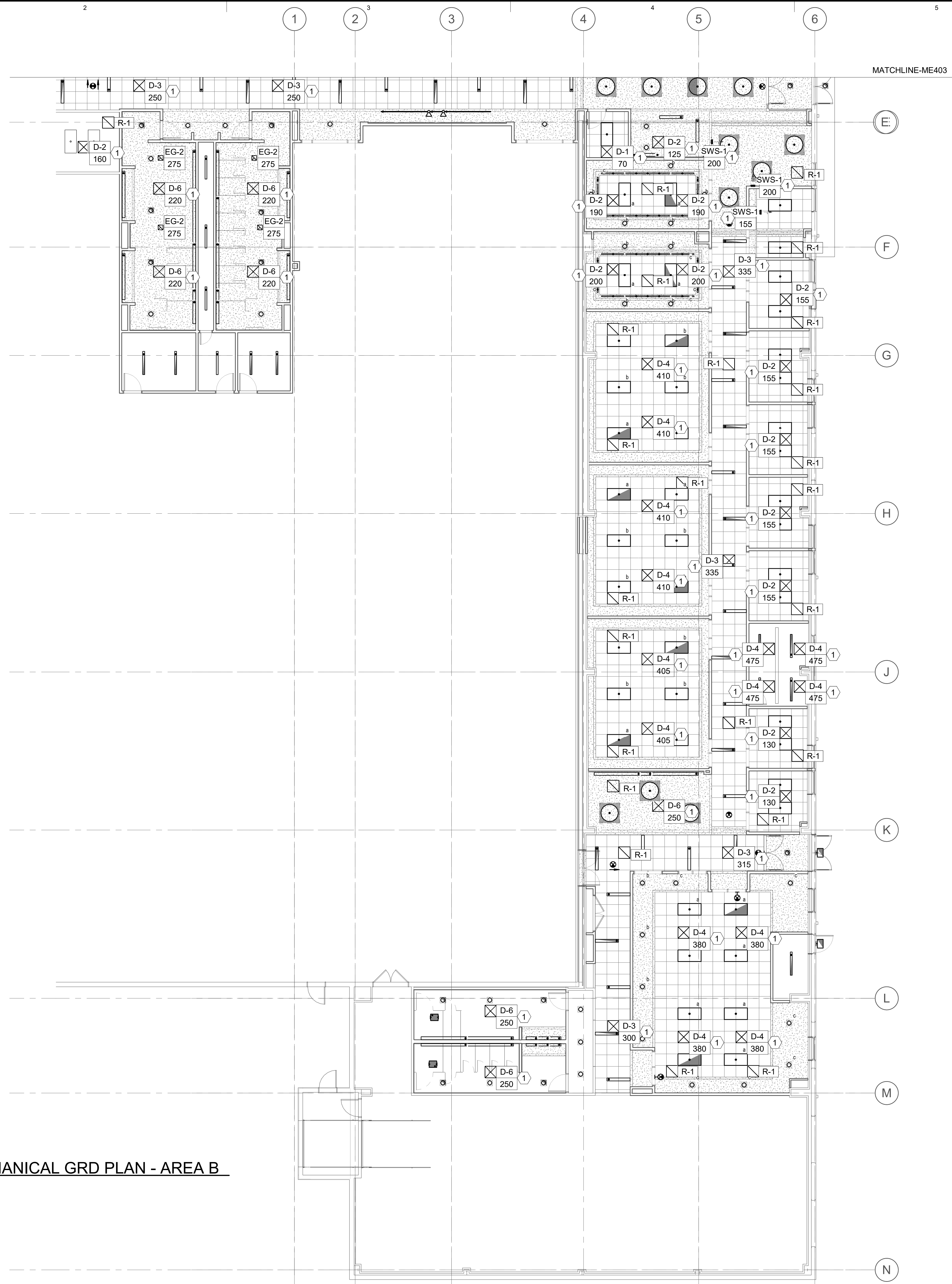
**KEY PLAN**



MATCHLINE-ME404



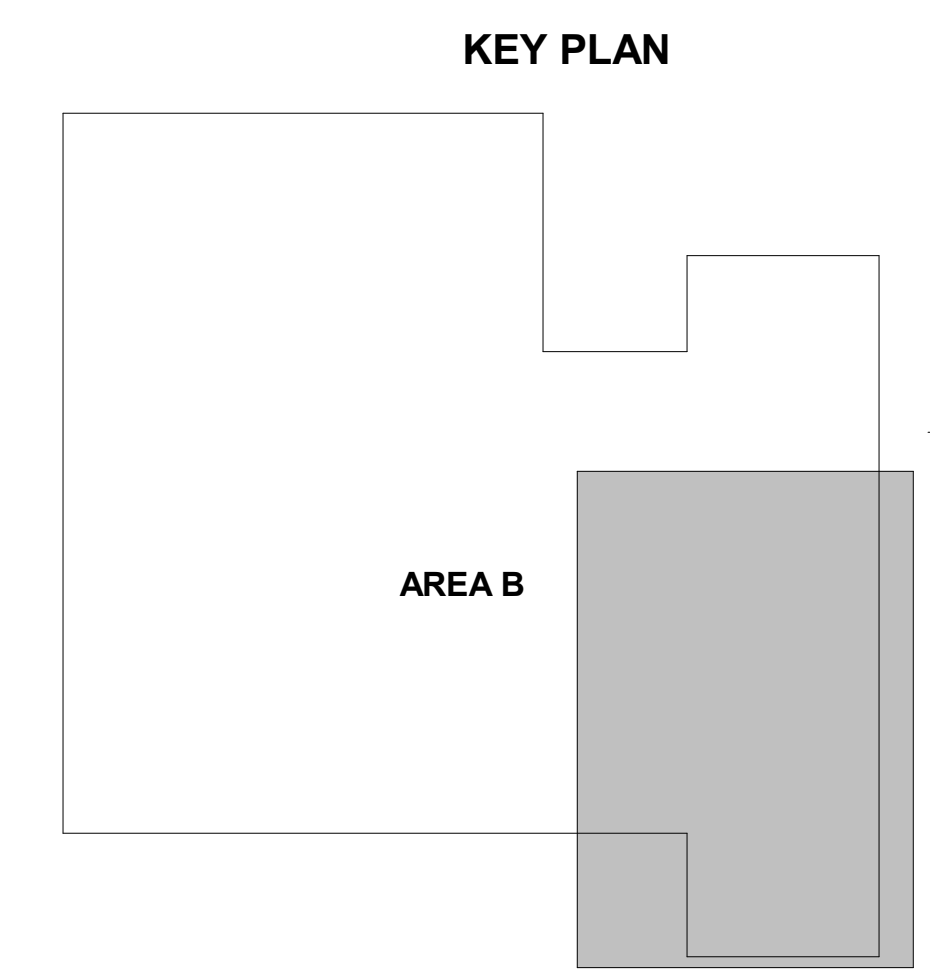




**SHEET NOTES**

1 BALANCE DIFFUSER TO CFM SHOWN.

**1** LARGE SCALE MECHANICAL GRD PLAN - AREA B  
1/8" = 1'-0"



ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1369  
info@spe-architect.com  
www.spe-architect.com

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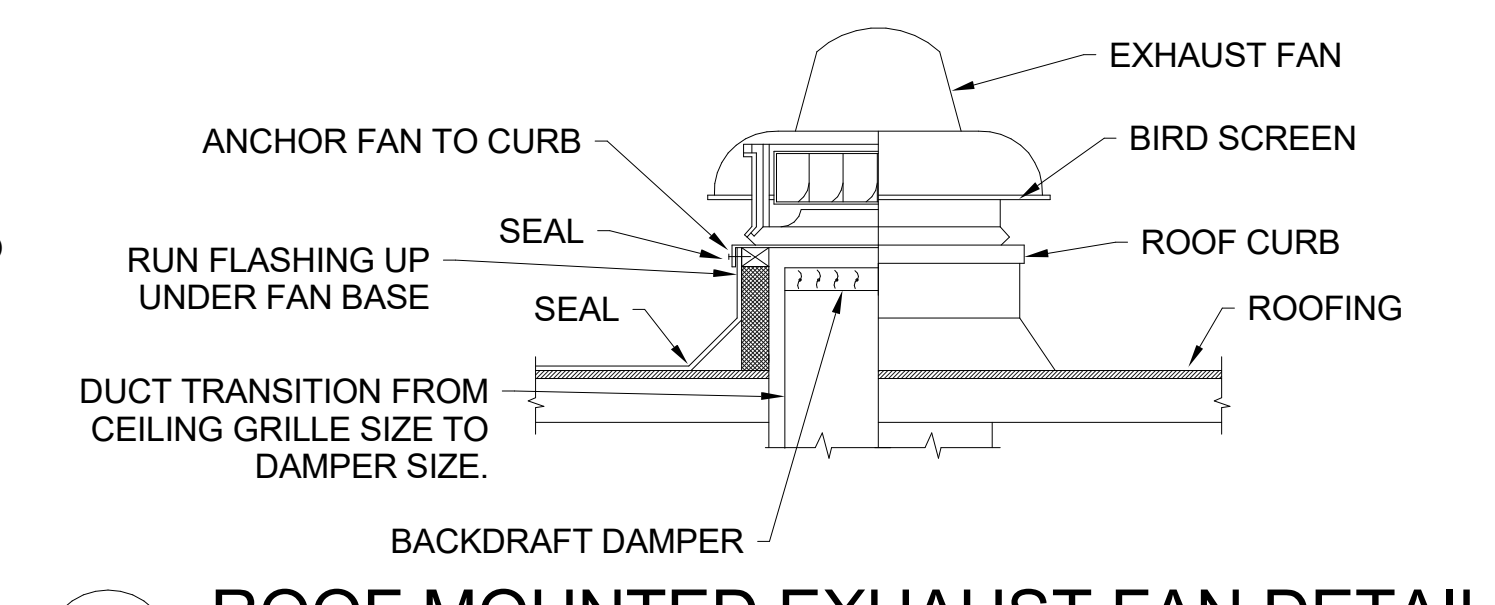
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**MECHANICAL  
LARGE SCALE  
PLANS**

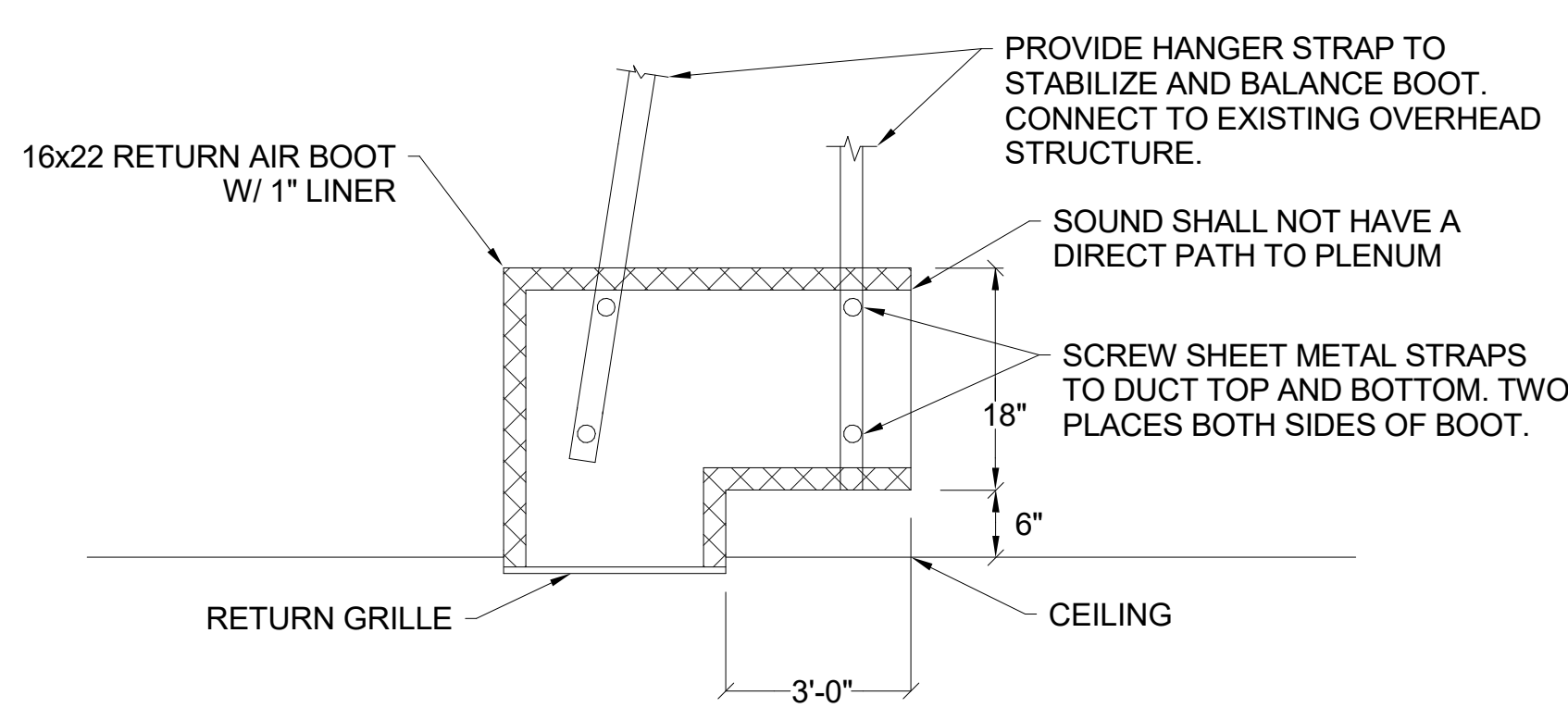
SHEET NUMBER:  
**ME404**

**WHW  
ENGINEERING LLC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
1819 Sandy Parkway, Suite 101  
SANDY, UTAH 84070  
(801)966-4021 FAX 801-966-5028  
EMAIL: wwh@whw-engineering.com

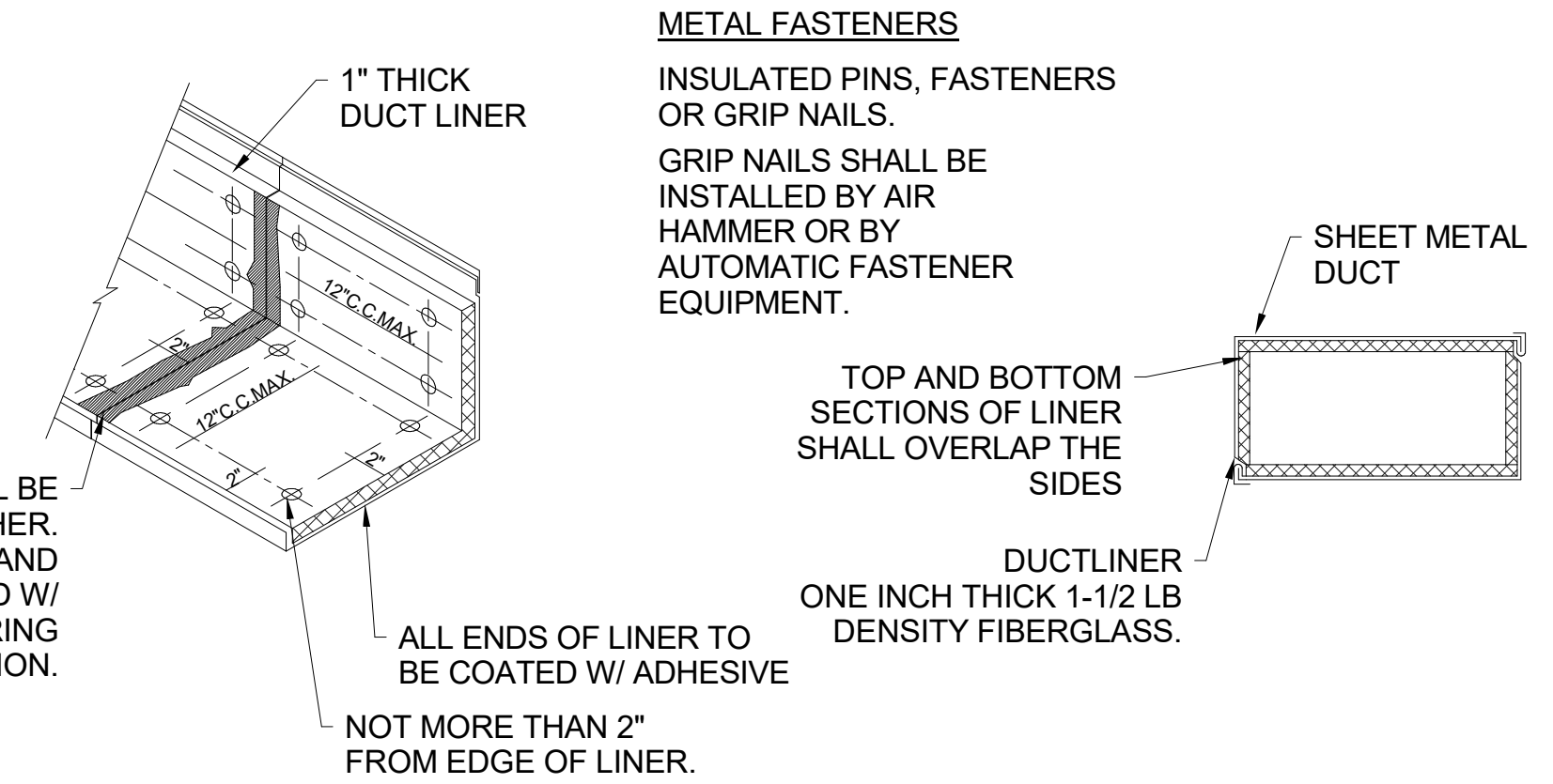




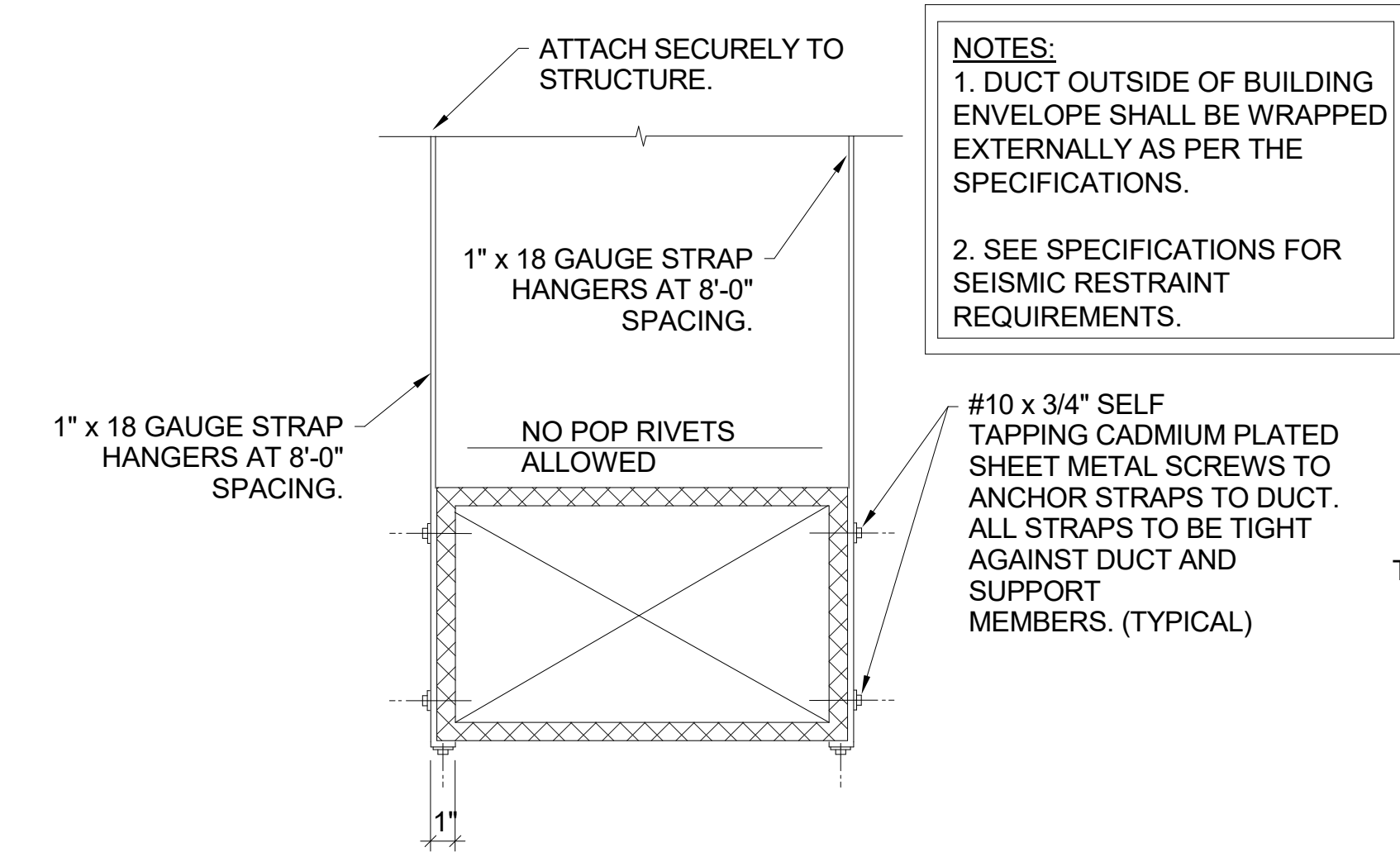
**D5 ROOF MOUNTED EXHAUST FAN DETAIL**  
 SCALE: NONE



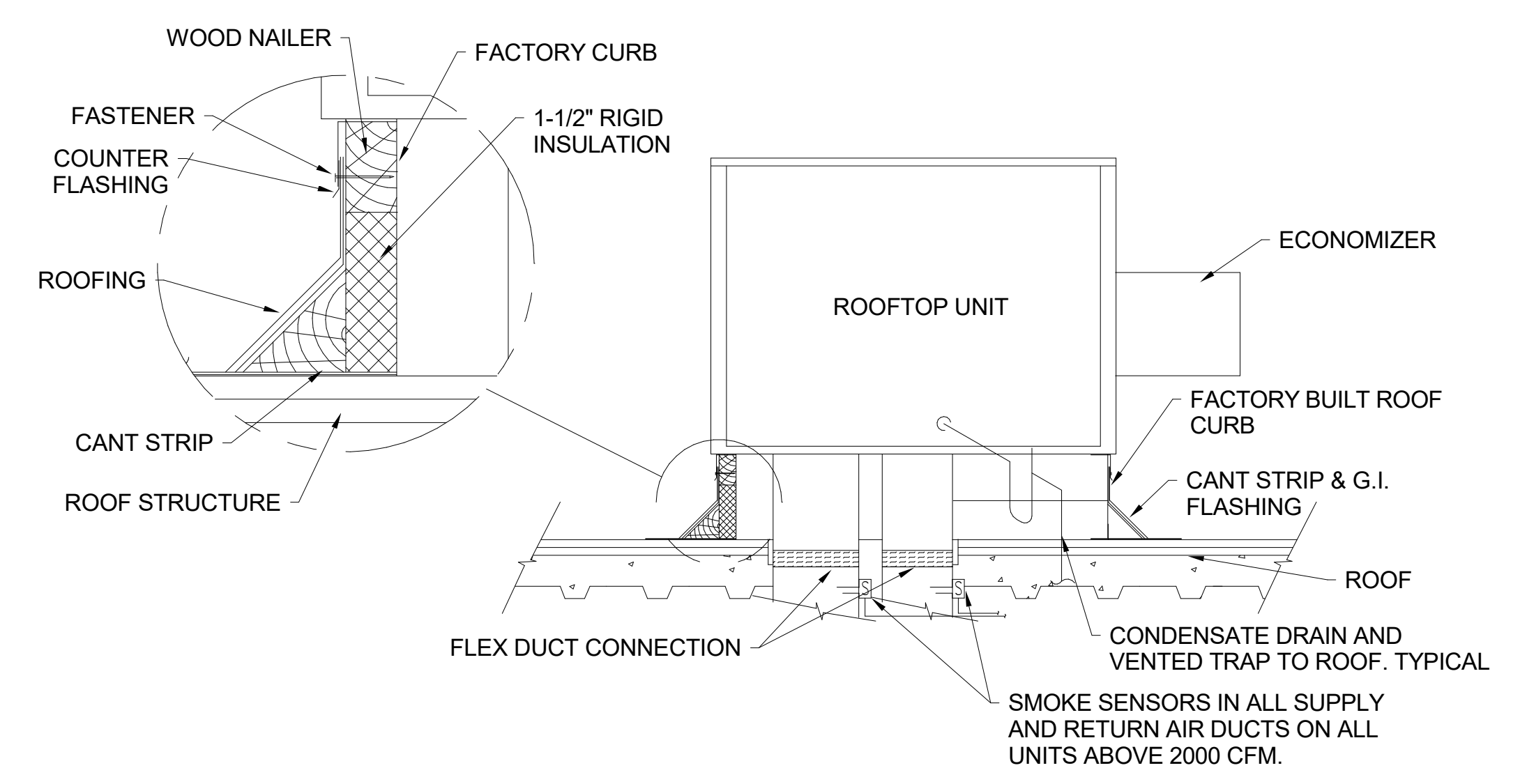
**D4 RETURN AIR BOOT DETAIL**  
 SCALE: NONE



**D3 DUCT LINER DETAIL**  
 SCALE: NONE

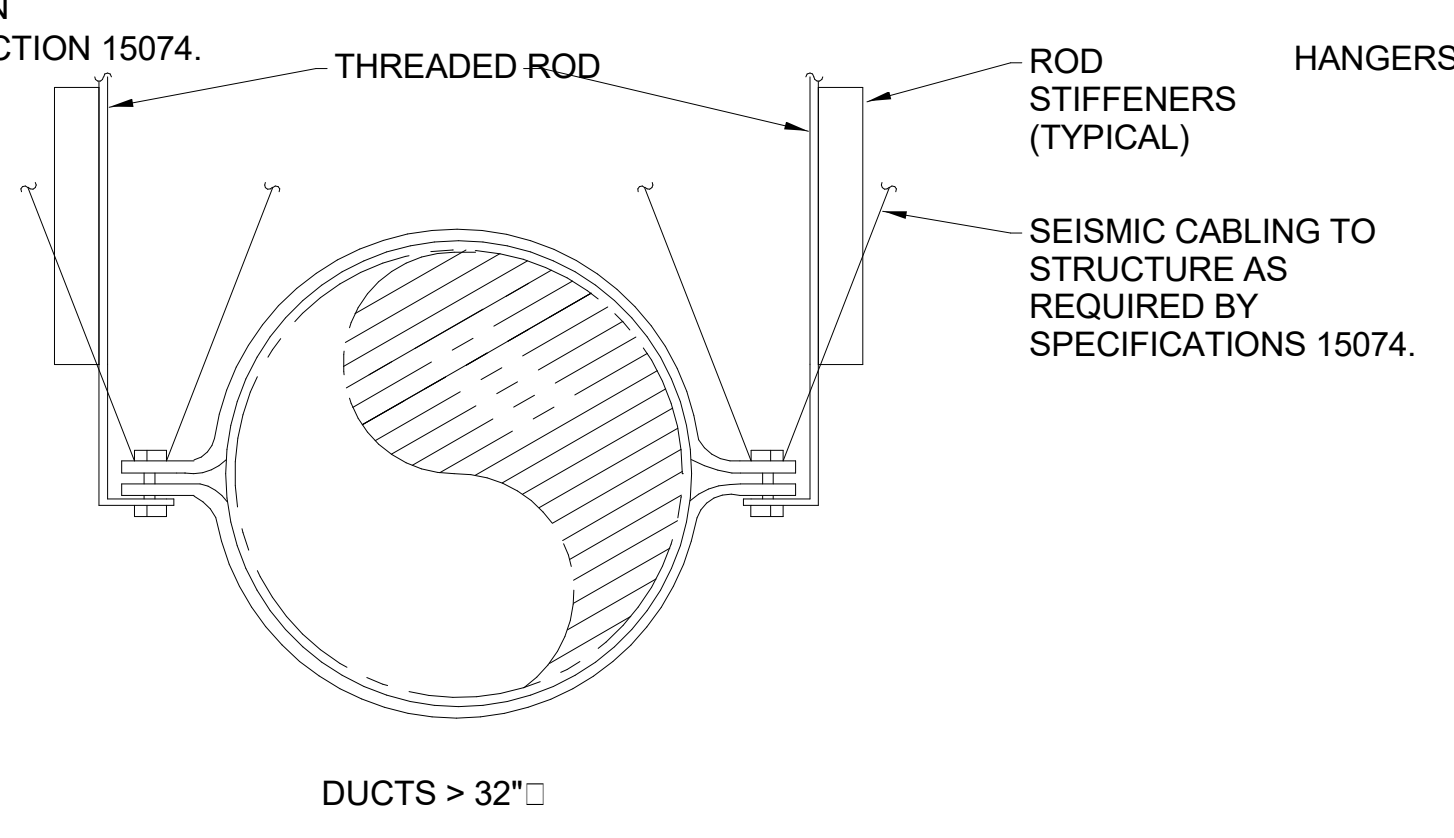


**D1 DUCT STRAP HANGER DETAIL**  
 SCALE: NONE

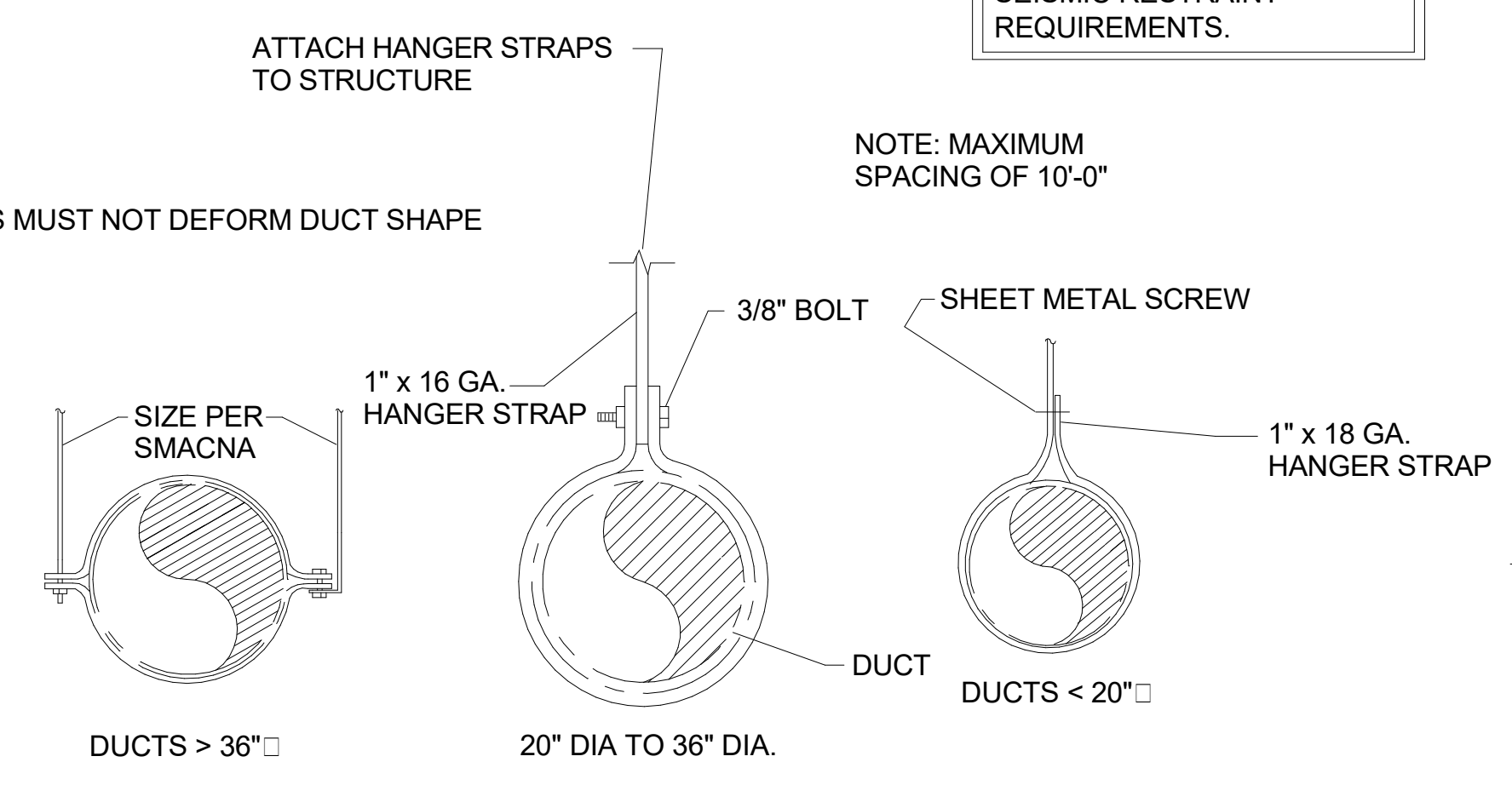


**C2 ROOFTOP UNIT DETAIL**  
 SCALE: NONE

DETAIL NOTES:  
 1. HANGERS MUST NOT DEFORM DUCT SHAPE.  
 2. SIZING AND SPACING OF ROD STIFFENERS AND SEISMIC CABLING SHALL BE PROVIDED BY APPROVED SEISMIC VENDOR IN SPECIFICATION SECTION 15074.

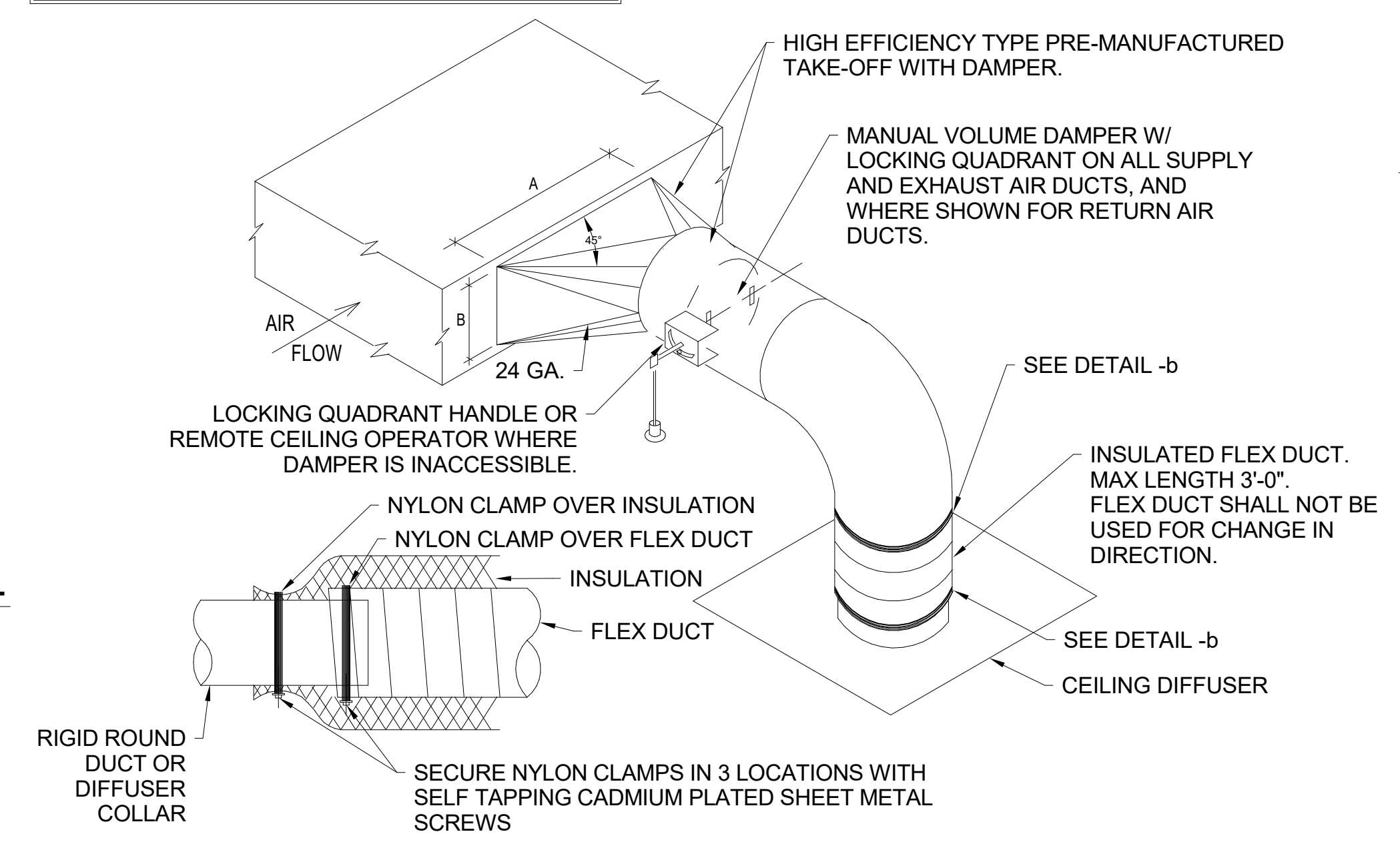


**C4 ROUND DUCT SUPPORT DETAIL**  
 SCALE: NONE

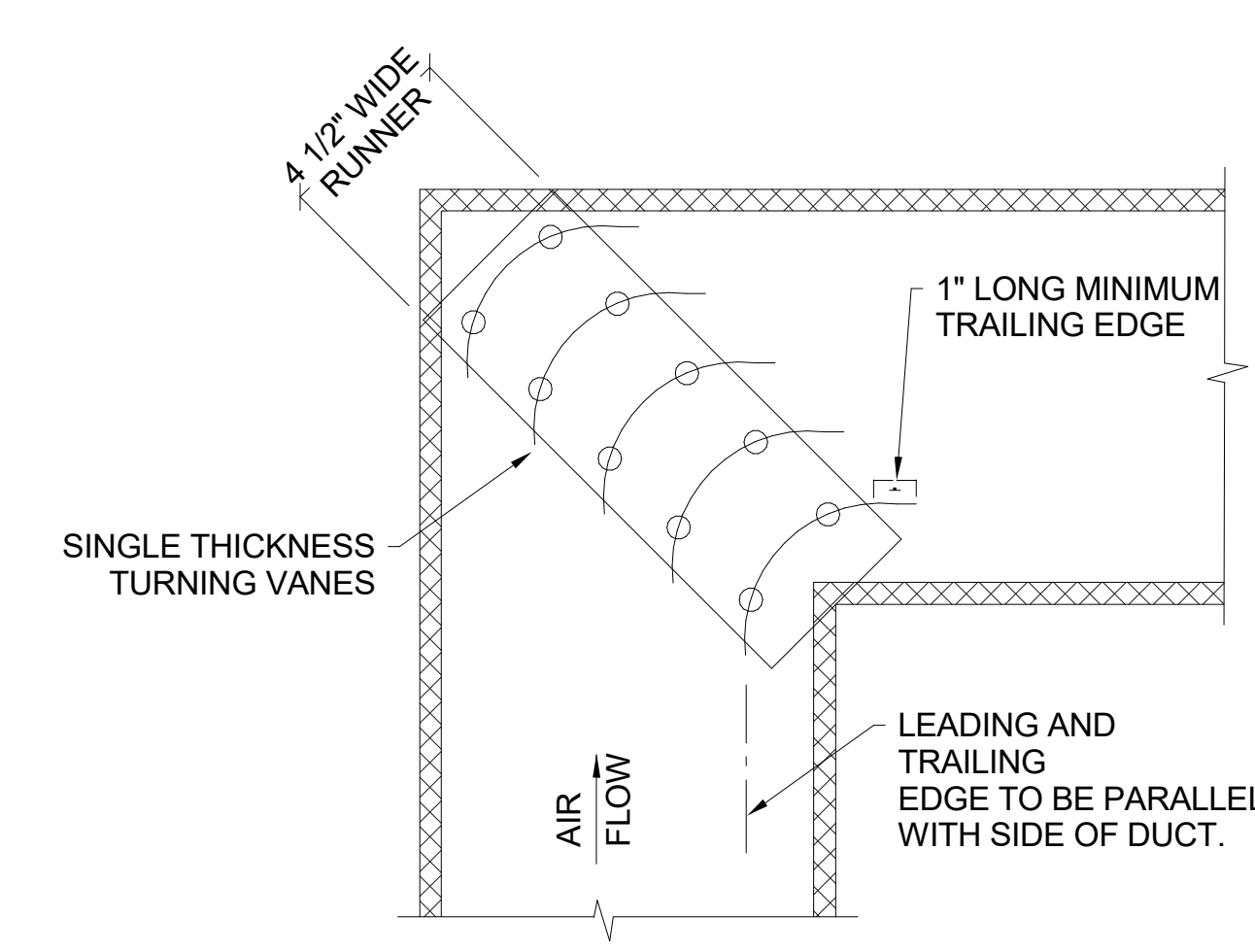


**C5 ROUND DUCT SUPPORT DETAIL**  
 SCALE: NONE

NOTES:  
 1. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.  
 2. AREA OF A x B SHALL BE EQUAL TO 1.5x AREA BRANCH DUCT



**A5 SQUARE-TO-ROUND TAKE-OFF DETAIL**  
 SCALE: NONE



**B3 SINGLE THICKNESS TURNING VANE DETAIL**  
 SCALE: NONE



| ROOF TOP UNIT SCHEDULE |      |      |           |               |                |                 |          |             |                     |         |       |           |                                  |                  |               |                        |                         |
|------------------------|------|------|-----------|---------------|----------------|-----------------|----------|-------------|---------------------|---------|-------|-----------|----------------------------------|------------------|---------------|------------------------|-------------------------|
| TAG                    | TYPE | #    | CFM       | ESP           | HEATING        |                 | COOLING  |             | ELECTRICAL          |         |       |           | SEER (3-5 TON)<br>EER (7.5+ TON) | OPERATING WEIGHT | MANUF & MODEL | SCHEDULE NOTES         |                         |
|                        |      |      |           |               | INPUT (BTU/HR) | OUTPUT (BTU/HR) | EAT (DB) | EAT (WB)    | TOTAL LOAD (BTU/HR) | VOLTAGE | PHASE | FREQUENCY |                                  |                  |               |                        | MCA                     |
| RTU                    | 01   | 1800 | 0.5 in-wg | 126,000 Btu/h | 102,060 Btu/h  | 80 °F           | 67 °F    | 57460 Btu/h | 208 V               | 3       | 60 Hz | 29.8 A    | 45 A                             | 16.2             | 655 lb        | DAIKIN DRG0603DH00119C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 02   | 1800 | 0.5 in-wg | 126,000 Btu/h | 102,060 Btu/h  | 80 °F           | 67 °F    | 57460 Btu/h | 208 V               | 3       | 60 Hz | 29.8 A    | 45 A                             | 16.2             | 655 lb        | DAIKIN DRG0603DH00119C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 03   | 1200 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 37140 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 04   | 1200 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 37140 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 05   | 1100 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 37140 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 06   | 1800 | 0.5 in-wg | 126,000 Btu/h | 102,060 Btu/h  | 80 °F           | 67 °F    | 57460 Btu/h | 208 V               | 3       | 60 Hz | 29.8 A    | 45 A                             | 16.2             | 655 lb        | DAIKIN DRG0603DH00119C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 07   | 1200 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 37140 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 08   | 1080 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 35720 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 09   | 1080 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 35720 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 10   | 1200 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 37140 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 11   | 1080 | 0.5 in-wg | 103,500 Btu/h | 83,840 Btu/h   | 80 °F           | 67 °F    | 35720 Btu/h | 208 V               | 3       | 60 Hz | 21.2 A    | 30 A                             | 16.4             | 572 lb        | DAIKIN DRG0363DH00113C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 12   | 1600 | 0.5 in-wg | 126,000 Btu/h | 102,060 Btu/h  | 80 °F           | 67 °F    | 47090 Btu/h | 208 V               | 3       | 60 Hz | 25.4 A    | 35 A                             | 16.4             | 647 lb        | DAIKIN DRG0483DH00096C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 13   | 1995 | 0.5 in-wg | 126,000 Btu/h | 102,060 Btu/h  | 80 °F           | 67 °F    | 57460 Btu/h | 208 V               | 3       | 60 Hz | 29.8 A    | 45 A                             | 16.2             | 655 lb        | DAIKIN DRG0603DH00119C | 1,2,3,4,5,6,7,8,9,10,11 |
| RTU                    | 14   | 1995 | 0.5 in-wg | 126,000 Btu/h | 102,060 Btu/h  | 80 °F           | 67 °F    | 57460 Btu/h | 208 V               | 3       | 60 Hz | 29.8 A    | 45 A                             | 16.2             | 655 lb        | DAIKIN DRG0603DH00119C | 1,2,3,4,5,6,7,8,9,10,11 |

1. PROVIDE SMOKE DETECTOR IN SUPPLY AND RETURN AIR FOR ALL UNITS OVER 2,000 CFM.
2. RATED MINIMUM INPUT AT SEA LEVEL.
3. PROVIDE ONE 15 AMP, 120 VOLT, DUPLEX GFCI SERVICE OUTLET. FACTORY INSTALLED, FIELD WIRED.
4. ESP DOES NOT INCLUDE LOSSES THROUGH ACCESSORIES.
5. PROVIDE 100% OUTSIDE AIR ECONOMIZER.
6. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
7. PROVIDE FACTORY INSTALLED ELECTRO-MECHANICAL CONTROLS AND BACNET INTERFACE.
8. PROVIDE FACTORY INSTALLED TWO STAGED COOLING MODES.
9. PROVIDE LOW-LEAK DOWNFLOW ECONOMIZER W/ DRY BULB SENSOR.
10. PROVIDE WITH 18" ROOF CURB.
11. PROVIDE WITH HIGH ALTITUDE KIT.

| EXHAUST FAN SCHEDULE |      |           |            |       |         |       |            |         |     |                    |               |                |
|----------------------|------|-----------|------------|-------|---------|-------|------------|---------|-----|--------------------|---------------|----------------|
| TAG                  | TYPE | #         | CFM        | ESP   | VOLTAGE | PHASE | ELECTRICAL |         |     | SONES              | MANUF & MODEL | SCHEDULE NOTES |
|                      |      |           |            |       |         |       | FREQUENCY  | RPM     | HP  |                    |               |                |
| EF                   | 1    | 600 CFM   | 0.50 in-wg | 120 V | 1       | 60 Hz | 1651       | 0.05 hp | 8.2 | GREENHECK G-090-VG | 1             |                |
| EF                   | 2    | 1,200 CFM | 0.50 in-wg | 120 V | 1       | 60 Hz | 1087       | 0.25 hp | 8.3 | GREENHECK GB-130   | 1             |                |
| EF                   | 3    | 300 CFM   | 0.50 in-wg | 120 V | 1       | 60 Hz | 1000       | 0.13 hp | 5   | COOK GC            | 1             |                |
| EF                   | 4    | 300 CFM   | 0.50 in-wg | 120 V | 1       | 60 Hz | 1000       | 0.13 hp | 5   | COOK GC            | 1             |                |

1. RUN CONTINUOUSLY DURING OCCUPIED HOURS. TIE INTO CLOSEST THERMOSTAT FOR OCCUPANCY SCHEDULE.

| DIFFUSER AND GRILLE SCHEDULE |           |           |       |                  |       |              |              |                |        |               |                |
|------------------------------|-----------|-----------|-------|------------------|-------|--------------|--------------|----------------|--------|---------------|----------------|
| TAG                          | MAX FLOW  | FACE SIZE |       | NECK SIZE        |       | CEILING TYPE | BLOW PATTERN | THROW @ 50 FPM | MAX NC | MANUF & MODEL | SCHEDULE NOTES |
|                              |           | LENGTH    | WIDTH | LENGTH/ DIAMETER | WIDTH |              |              |                |        |               |                |
|                              |           |           |       |                  |       |              |              |                |        |               |                |
| D-1                          | 200 CFM   | 24"       | 24"   | 6"               | 0"    | LAY-IN       | 4 WAY        | 8'             | 25     | PRICE SPD     | 1,2            |
| D-2                          | 325 CFM   | 24"       | 24"   | 8"               | 0"    | LAY-IN       | 4 WAY        | 10'            | 25     | PRICE SPD     | 1,2            |
| D-3                          | 450 CFM   | 24"       | 24"   | 10"              | 0"    | LAY-IN       | 4 WAY        | 11'            | 25     | PRICE SPD     | 1,2            |
| D-4                          | 600 CFM   | 24"       | 24"   | 12"              | 0"    | LAY-IN       | 4 WAY        | 13'            | 25     | PRICE SPD     | 1,2            |
| D-5                          | 180 CFM   | 12"       | 12"   | 6"               | 0"    | HARD         | 4 WAY        | 10'            | 25     | PRICE SPD     | 1,2            |
| D-6                          | 450 CFM   | 24"       | 24"   | 10"              | 0"    | HARD         | 4 WAY        | 11'            | 25     | PRICE SPD     | 1,2            |
| EG-1                         | 180 CFM   | 8"        | 8"    | 8"               | 8"    | HARD         | N/A          | 0'             | 25     | PRICE 635     | 1,2            |
| EG-2                         | 250 CFM   | 10"       | 10"   | 10"              | 10"   | HARD         | N/A          | 0'             | 25     | PRICE 535     | 1,2            |
| R-1                          | 1,200 CFM | 24"       | 24"   | 24"              | 24"   | LAY-IN       | N/A          | 0'             | 25     | PRICE 535     | 1,2            |
| SDS-1                        | 0 CFM     | 48"       | 3"    | 7"               | 0"    | HARD         | 1 WAY        | 26"            | 27     | PRICE SDS100  | 1,2            |
| SWS-1                        | 310 CFM   | 8"        | 8"    | 0"               | 0"    | SIDEWALL     | 1 WAY        | 12"            | 24     | PRICE RCG     | 1,2            |

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
2. FINISH SHALL BE STANDARD WHITE.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

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PROFESSIONAL ENGINEER  
02/05/2024  
WINWARD M. PACKER  
No. 375080  
STATE OF UTAH

---



REVIEWED FOR CODE COMPLIANCE  
03/26/2024  
WINWARD M. PACKER  
CONSTRUCTION AND MANAGEMENT

---

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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REVISIONS:

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DESIGNED BY: WP  
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**WHW ENGINEERING LLC**  
PROFESSIONAL MECHANICAL ENGINEERING  
1815 Sandy Parkway, Suite 101  
BANDY, UTAH 84013  
(801)966-4021 FAX 801-966-5058  
EMAIL: wwh@whw-engineering.com

---

**MECHANICAL SCHEDULES**

SHEET NUMBER:  
**ME601**



| PLUMBING LEGEND              |                        |                               |                        |
|------------------------------|------------------------|-------------------------------|------------------------|
| MEANING                      | SYMBOL OR ABBREVIATION | MEANING                       | SYMBOL OR ABBREVIATION |
| HOT WATER LINE               | — HW —                 | WALL CLEANOUT                 | WCO                    |
| COLD WATER LINE              | — CW —                 | CLEANOUT                      | CO                     |
| HOT WATER RECIRCULATING LINE | — HWREC —              | CLEANOUT TO GRADE             | COTG                   |
| VENT LINE                    | — V —                  | FLOOR CLEANOUT                | FCO                    |
| WASTE LINE                   | — SS —                 | BALL VALVE                    | ⊕                      |
| GAS LINE                     | G                      | UNION                         | — — —                  |
| VENT THRU ROOF               | VTR                    | CONNECTION TO EXISTING PIPING | ⊕                      |
| UNDER FLOOR                  | UF                     | REGULATOR                     | Ⓜ                      |
| SANITARY SEWER               | SS                     | SOFT WATER                    | SW                     |
| PRIMARY ROOF DRAIN           | PRD                    | SECONDARY ROOF DRAIN          | SRD                    |
| FIXTURE CALLOUT              | Ⓜ WC-1                 | FIXTURE CALLOUT ABOVE         | wc                     |

**PLUMBING GENERAL NOTES**

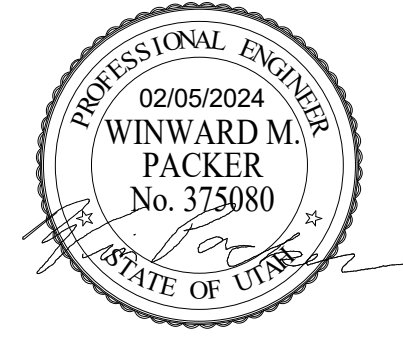
- G-1** - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2021 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
  - G-2** - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC, OR NFPA CODES OR BY LOCAL AUTHORITY.
  - G-3** - GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.
  - G-4** - ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.
  - G-5** - PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.
  - G-6** - ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING SPECIFICATIONS, ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
  - G-7** - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
  - G-8** - COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
  - G-9** - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
  - G-10** - GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.
  - G-11** - ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANS/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
  - G-12** - WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.
  - G-13** - WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.
- WATER HAMMER ARRESTOR SCHEDULE:**  
 TYPE A 1-11 FIXTURE UNITS  
 TYPE B 12-32 FIXTURE UNITS  
 TYPE C 33-60 FIXTURE UNITS  
 TYPE D 61-113 FIXTURE UNITS
- G-14** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t: 801-298-1366  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



CODE OFFICIAL STAMP



PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

REVISIONS:

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OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
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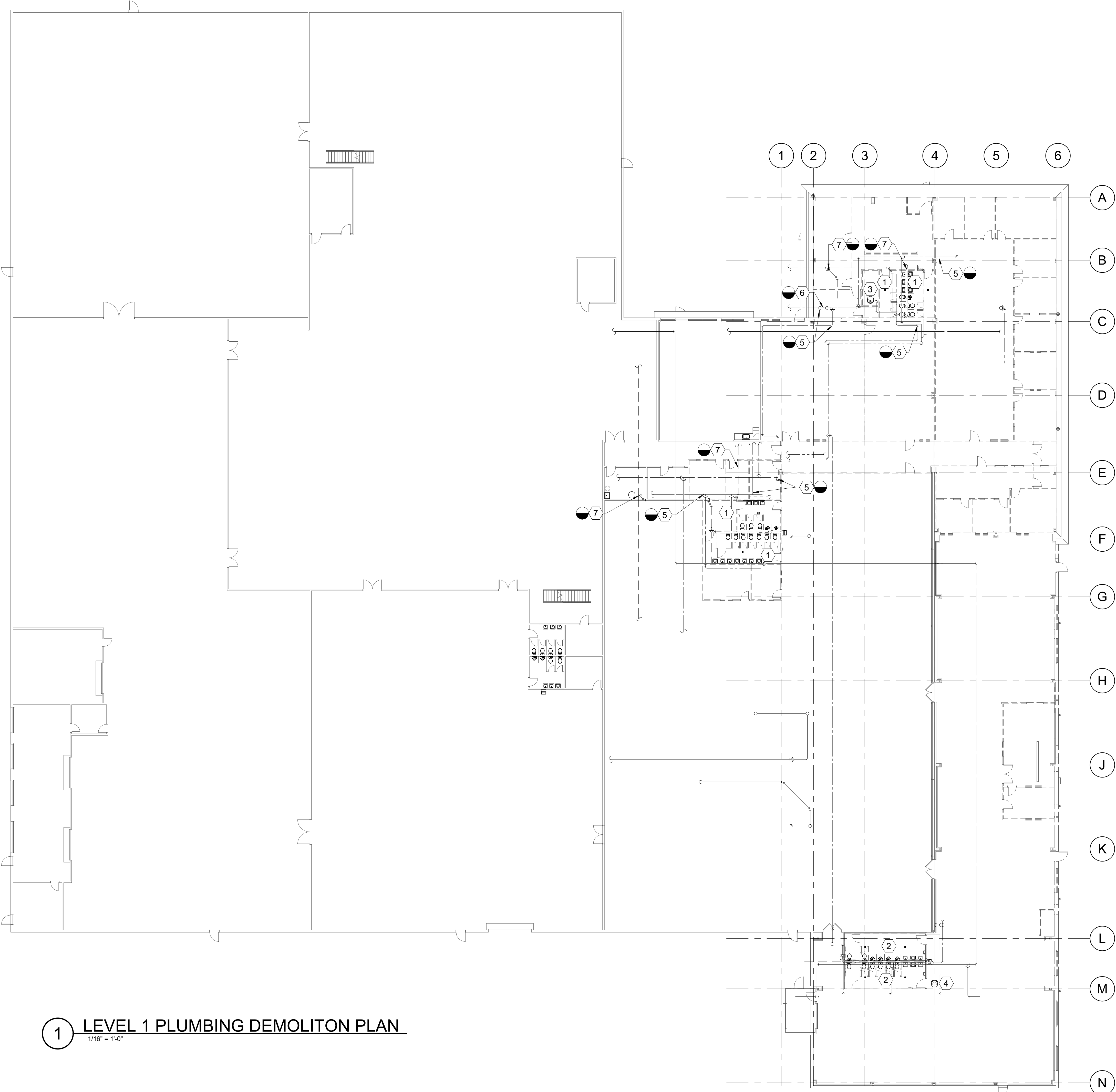
SHEET TITLE:  
**PLUMBING  
 LEGEND AND  
 GENERAL NOTES**

SHEET NUMBER:  
**PG001**



**WHW  
 ENGINEERING LLC.**  
 PROFESSIONAL MECHANICAL ENGINEERING  
 819 Sandy Parkway, Suite 101  
 SANDY, UTAH 84070  
 (801) 586-4025 FAX 801-586-5028  
 EMAIL: wwh@whw-engineering.com





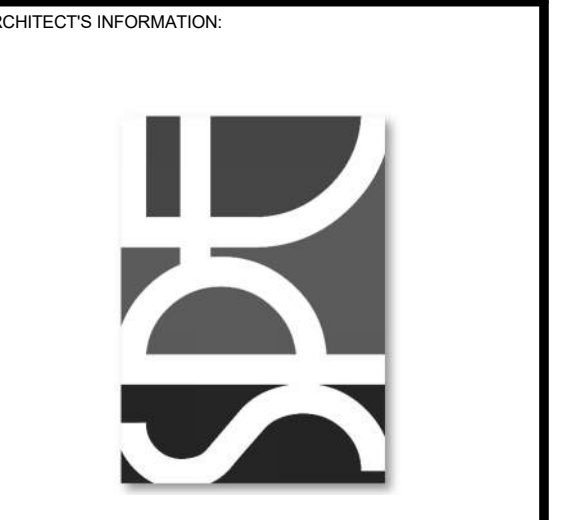
**1 LEVEL 1 PLUMBING DEMOLITION PLAN**  
1/16" = 1'-0"

**SHEET NOTES**

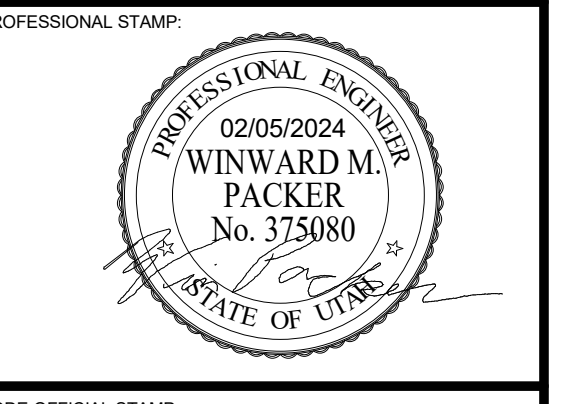
- 1 REMOVE AND REPLACE ALL PLUMBING FIXTURES IN THIS APPROXIMATE LOCATION. REMOVE ALL PIPING BACK TO SOURCE AND CAP. EXISTING SLAB IS TO BE SAWCUT, PATCHED, REPAIRED AS REQUIRED TO INSTALL NEW FIXTURES. FIELD VERIFY.
- 2 REMOVE AND REPLACE ALL PLUMBING FIXTURES IN THIS APPROXIMATE LOCATION. TAKE ALL DOMESTIC WATER PIPING TO SOURCE AND CAP. WASTE PIPING AND VENT PIPING WILL BE USED FOR NEW FIXTURES. EXISTING SLAB IS TO BE SAWCUT, PATCHED, REPAIRED AS REQUIRED TO INSTALL NEW FIXTURES. REFER TO AD-105 FOR SHOWING NEW AND EXISTING OVERLAD. FIELD VERIFY.
- 3 REMOVE AND RELOCATE EXISTING WATER HEATER IN THIS APPROXIMATE LOCATION. FIELD VERIFY.
- 4 REMOVE EXISTING WATER HEATER AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION. FIELD VERIFY.
- 5 REMOVE EXISTING DOMESTIC WATER PIPING BACK TO THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF REMOVAL.
- 6 REMOVE AND REPLACE EXISTING PRV STATION IN THIS APPROXIMATE LOCATION. SEE PE401 FOR NEW LOCATION.
- 7 REMOVE EXISTING SANITARY SEWER PIPING BELOW FLOOR IN RESTROOM BACK TO THIS APPROXIMATE LOCATION. FIELD VERIFY LOCATIONS OF EXISTING DWV PIPING LEAVING THE RESTROOMS. AND RE-CONNECT WITH NEW RESTROOMS. SEE SHEET PE101.2.

**GENERAL NOTES:**

1. NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM - CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE - IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK - IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.
2. NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT / REMOVED OR OTHERWISE MODIFIED (WHETHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAYED / RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR - COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQ'D. TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH / INFILL SAWCUT AREAS PER D3/AE-505 - COORDIANTE WITH MEP DRAWINGS.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com



PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

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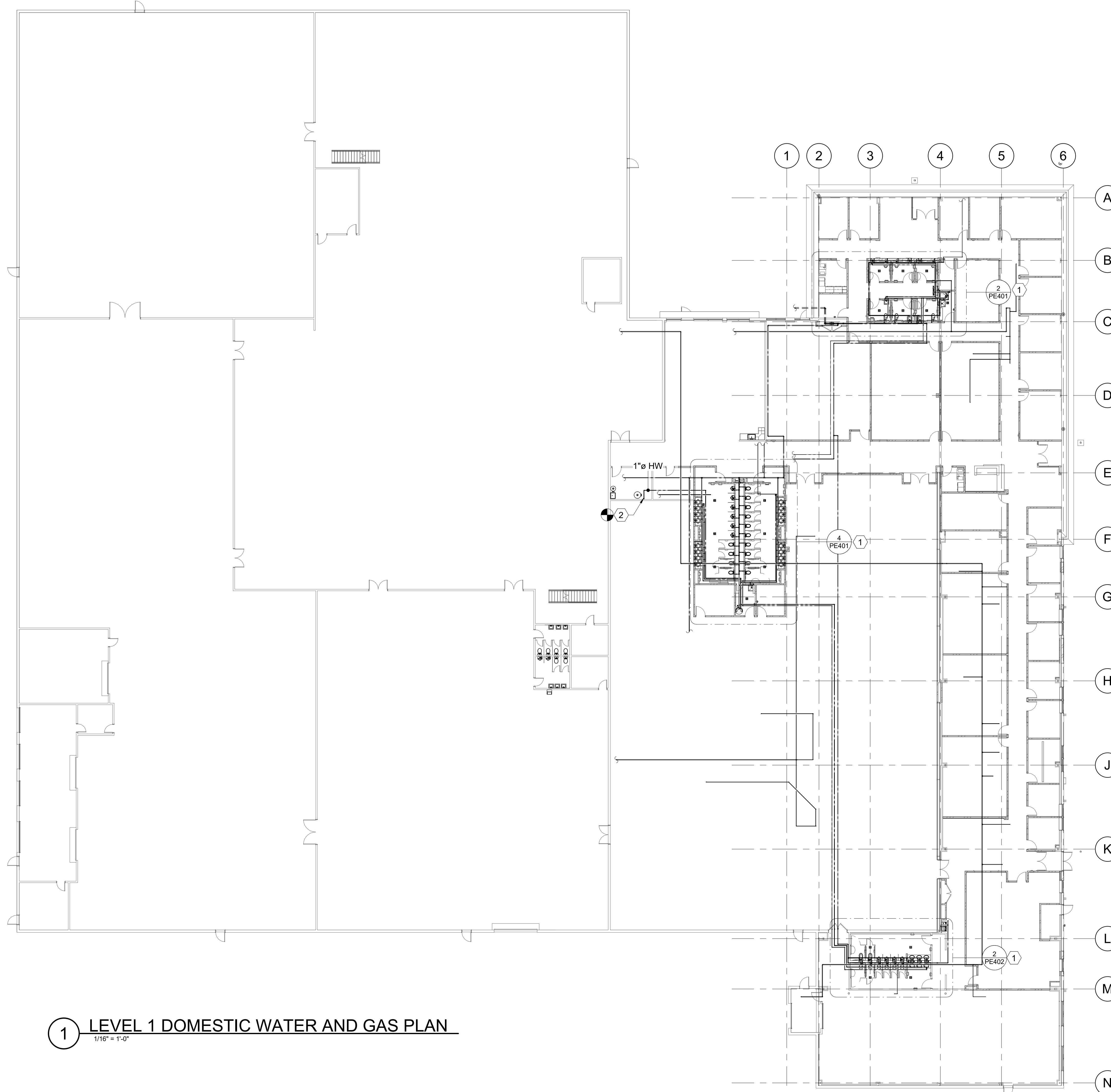
**PLUMBING  
DEMOLITION  
LEVEL 1**

SHEET NUMBER:  
**PD101**



**WHW  
ENGINEERING LLC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
1819 South Parkway, Suite 101  
ANDY, UTAH 84003  
(801)966-4022 FAX 801-966-5058  
EMAIL: wwh@whw-engineering.com





**1 LEVEL 1 DOMESTIC WATER AND GAS PLAN**  
 1/16" = 1'-0"

**SHEET NOTES**

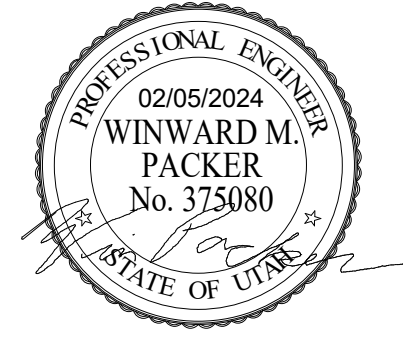
- 1 SEE LARGE SCALE PLANS FOR THIS AREA.
- 2 PROVIDE 1" DHW LINE TO EXISTING HOT WATER MAIN AND RE-CONNECT IN THIS APPROXIMATE LOCATION. FIELD VERIFY.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 1.801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

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PROJECT NAME

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SHEET TITLE

**PLUMBING  
 DOMESTIC  
 WATER AND GAS  
 PLANS**

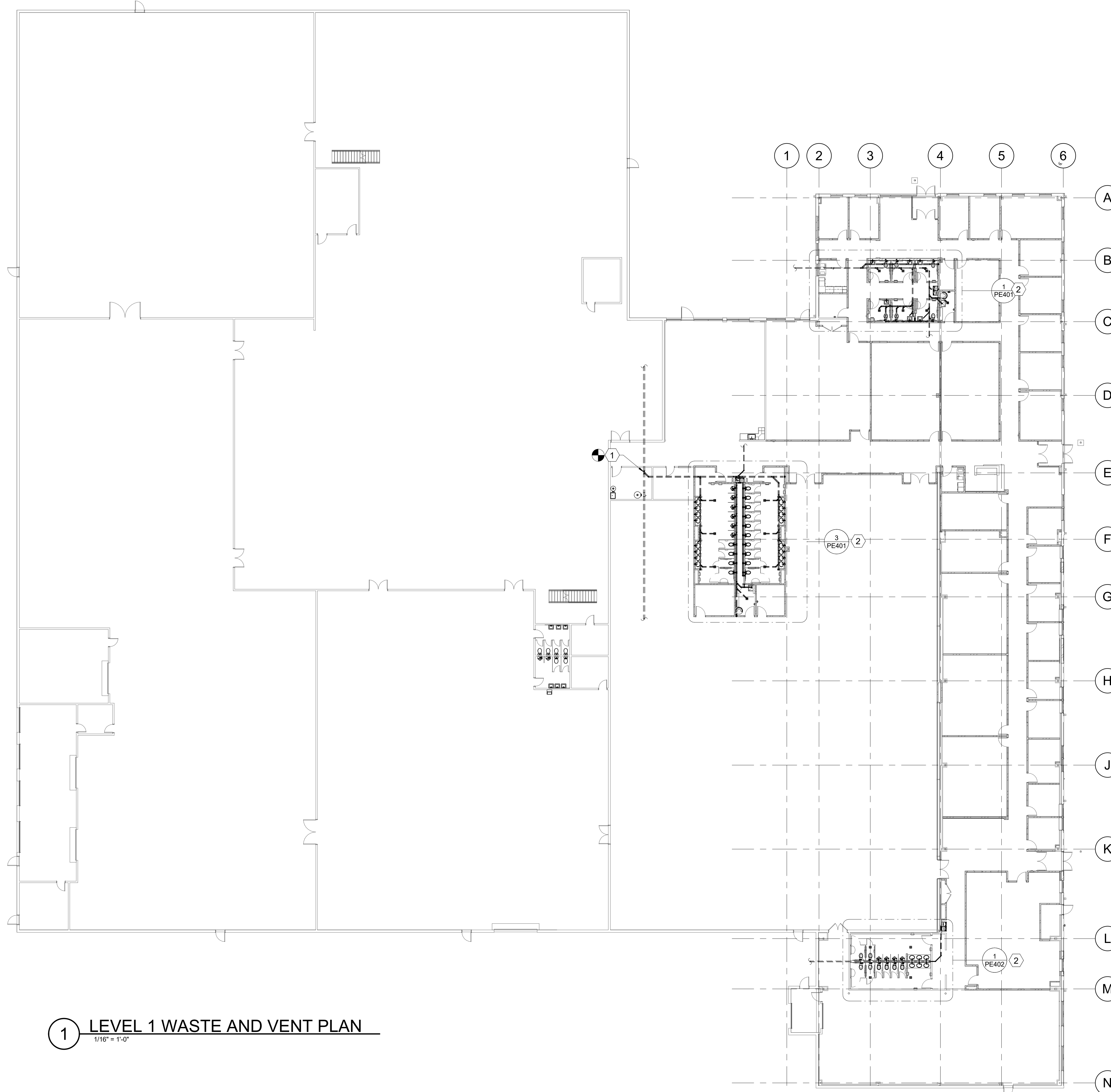
SHEET NUMBER

**PE101.1**



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 ENGINEERING LLC.**  
 PROFESSIONAL MECHANICAL ENGINEERING  
 8195 Sandy Parkway, Suite 101  
 SANDY, UTAH 84070  
 (801)966-4022 FAX 801-966-5028  
 EMAIL: wwh@whw-engineering.com

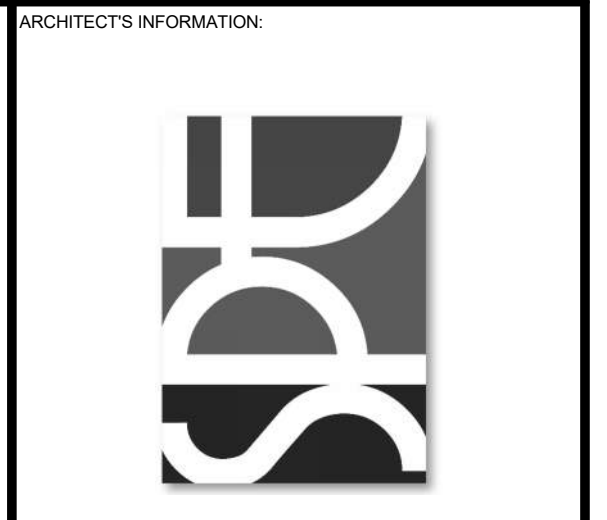




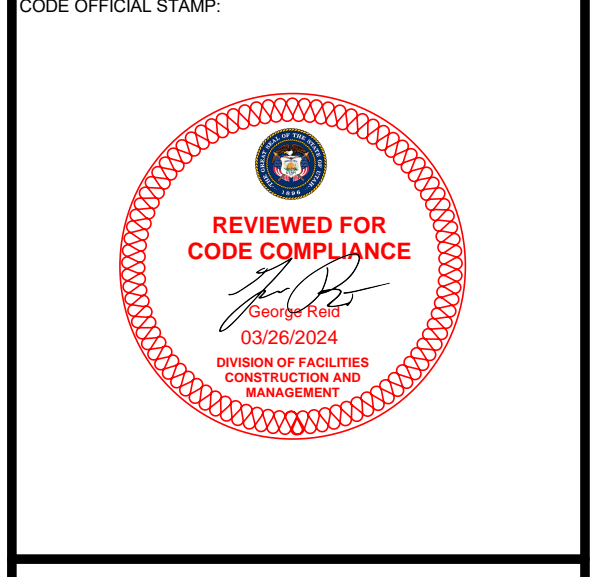
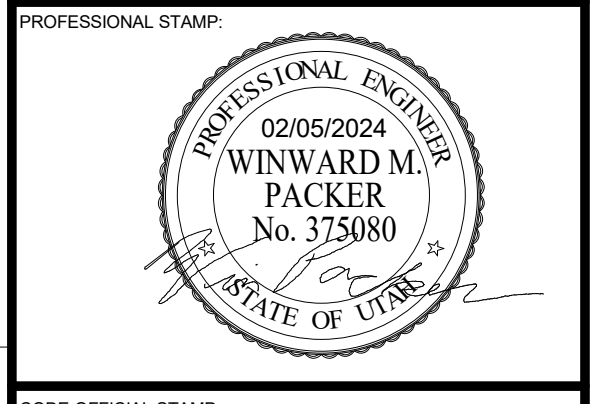
1 LEVEL 1 WASTE AND VENT PLAN  
1/16" = 1'-0"

**SHEET NOTES**

- 1 TIE INTO EXISTING UNDERGROUND WASTE PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY WITH CAMERA SCOPE EXACT ROUTING AND POINTS OF CONNECTION.
- 2 SEE LARGE SCALE PLANS FOR THIS AREA.



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1369  
info@spe-architect.com  
www.spe-architect.com



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**PLUMBING  
WASTE AND  
VENT PLANS**

SHEET NUMBER:  
**PE101.2**

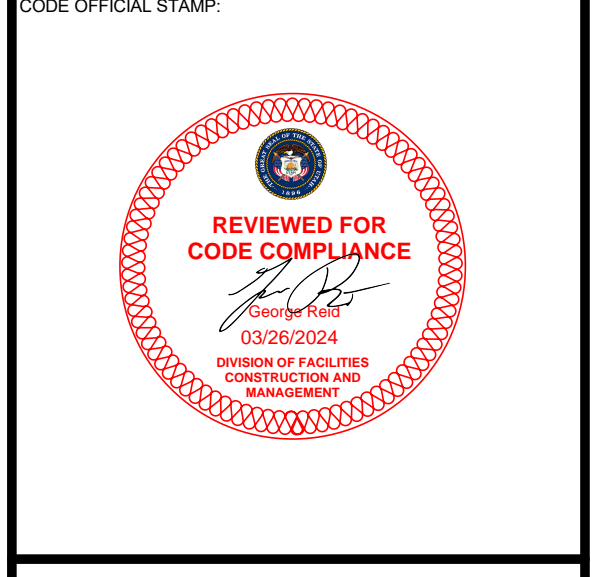
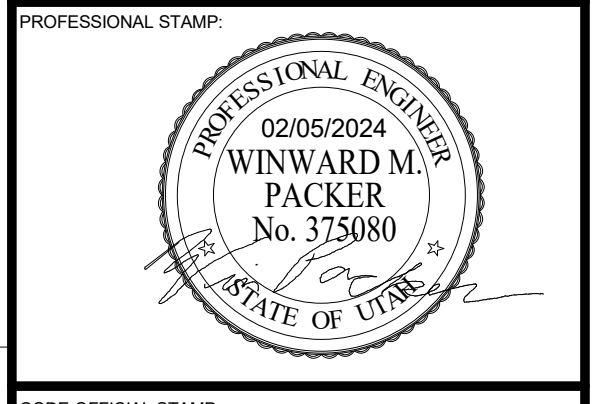


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ENGINEERING LLC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
1819 Sandy Parkway, Suite 101  
SANDY, UTAH 84073  
(801)966-4022 FAX 801-966-5028  
EMAIL: wester@whw-engineering.com



**SHEET NOTES** #

- 1 PROVIDE NEW ROOF HYDRANT IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION OF THE WATER PIPING IN THE CEILING SPACE BELOW.
- 2 TIE INTO EXISTING GAS PIPING ON THE ROOF IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION. PROVIDE GAS PIPING WITH FLEX CONNECTOR, DIRT LEG AND REGULATOR AT EACH RTU. SEE DETAIL A4/PE501.
- 3 TIE INTO EXISTING GAS PIPING IN THE CEILING BELOW IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION. PROVIDE GAS PIPING WITH FLEX CONNECTOR, DIRT LEG AND REGULATOR AT EACH RTU. SEE DETAIL A4/PE501.



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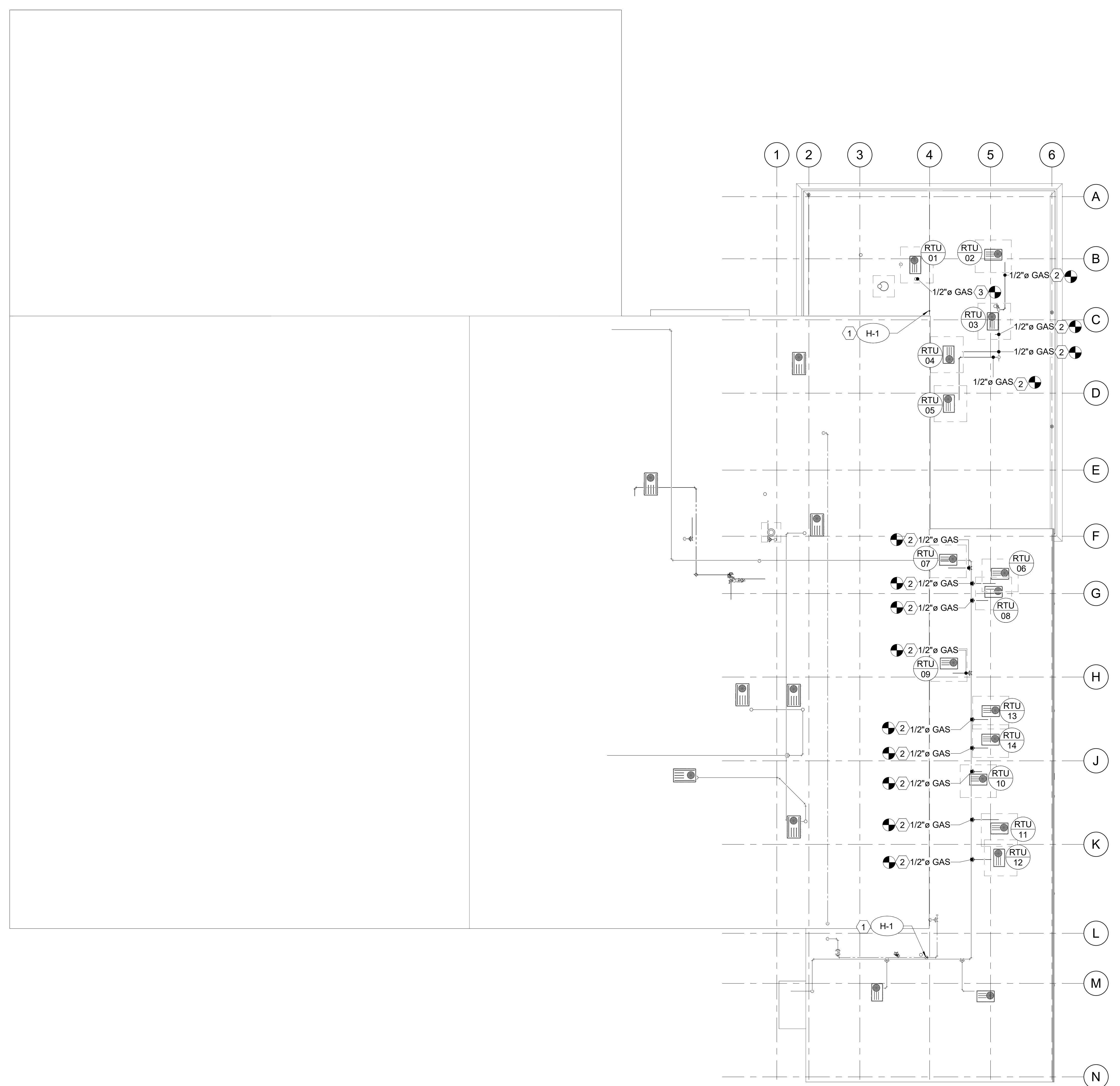
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SHEET TITLE:

**ROOFTOP  
 PLUMBING PLAN**

SHEET NUMBER:

**PE102**



**1 ROOFTOP PLUMBING PLAN**  
 1/16" = 1'-0"





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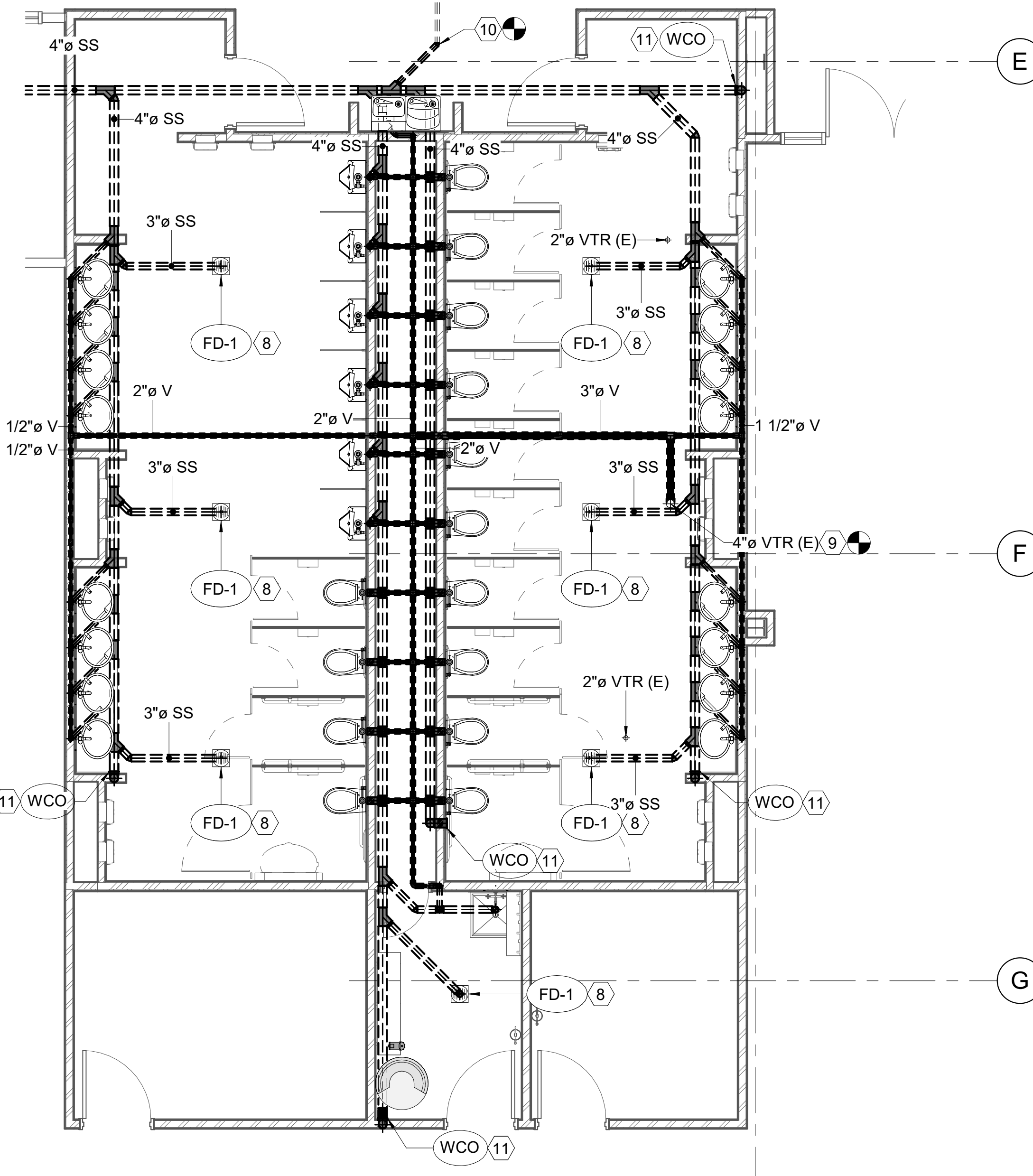
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PLUMBING  
LARGE SCALE  
PLANS

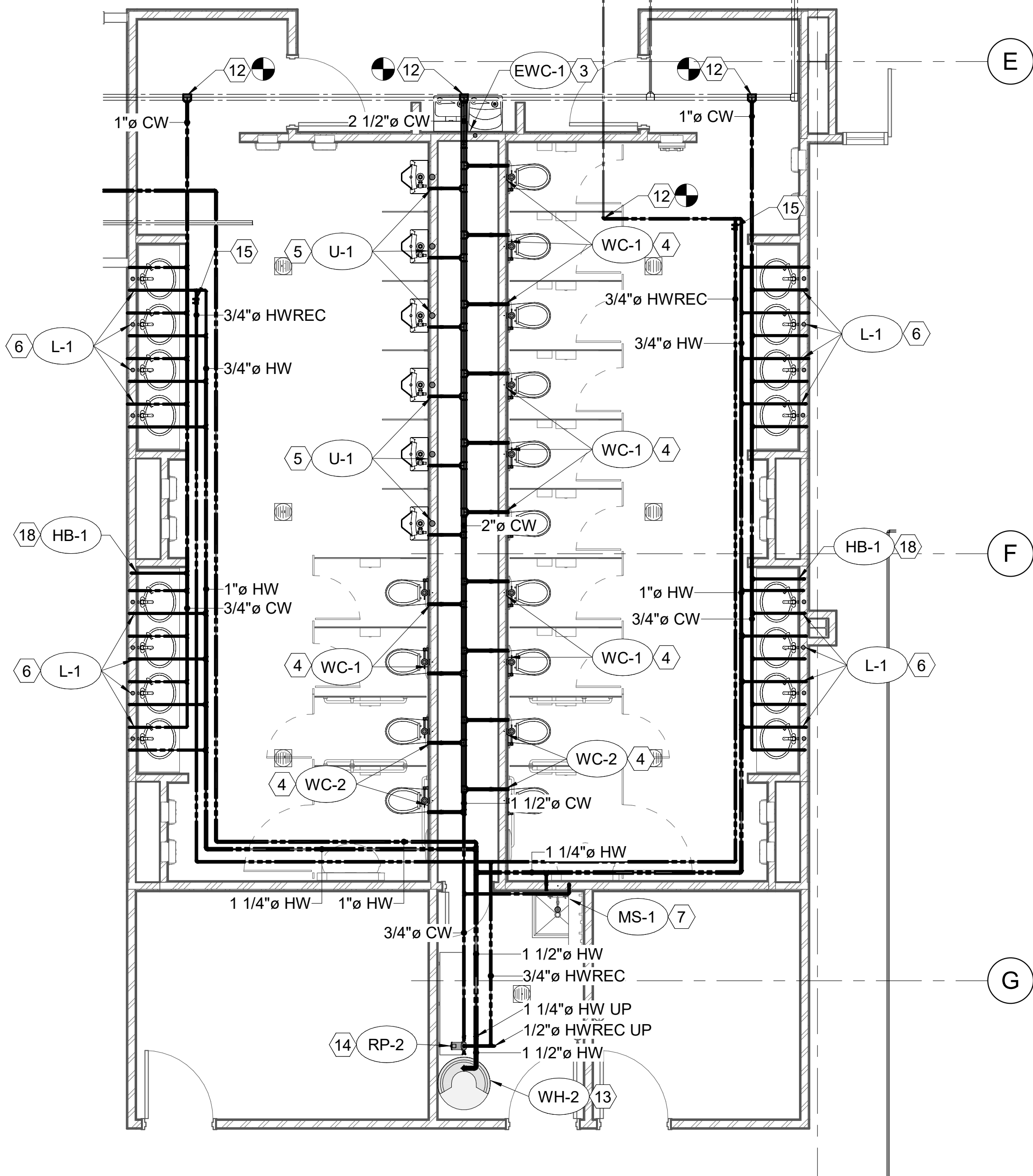
SHEET NUMBER  
PE401

SHEET NOTES

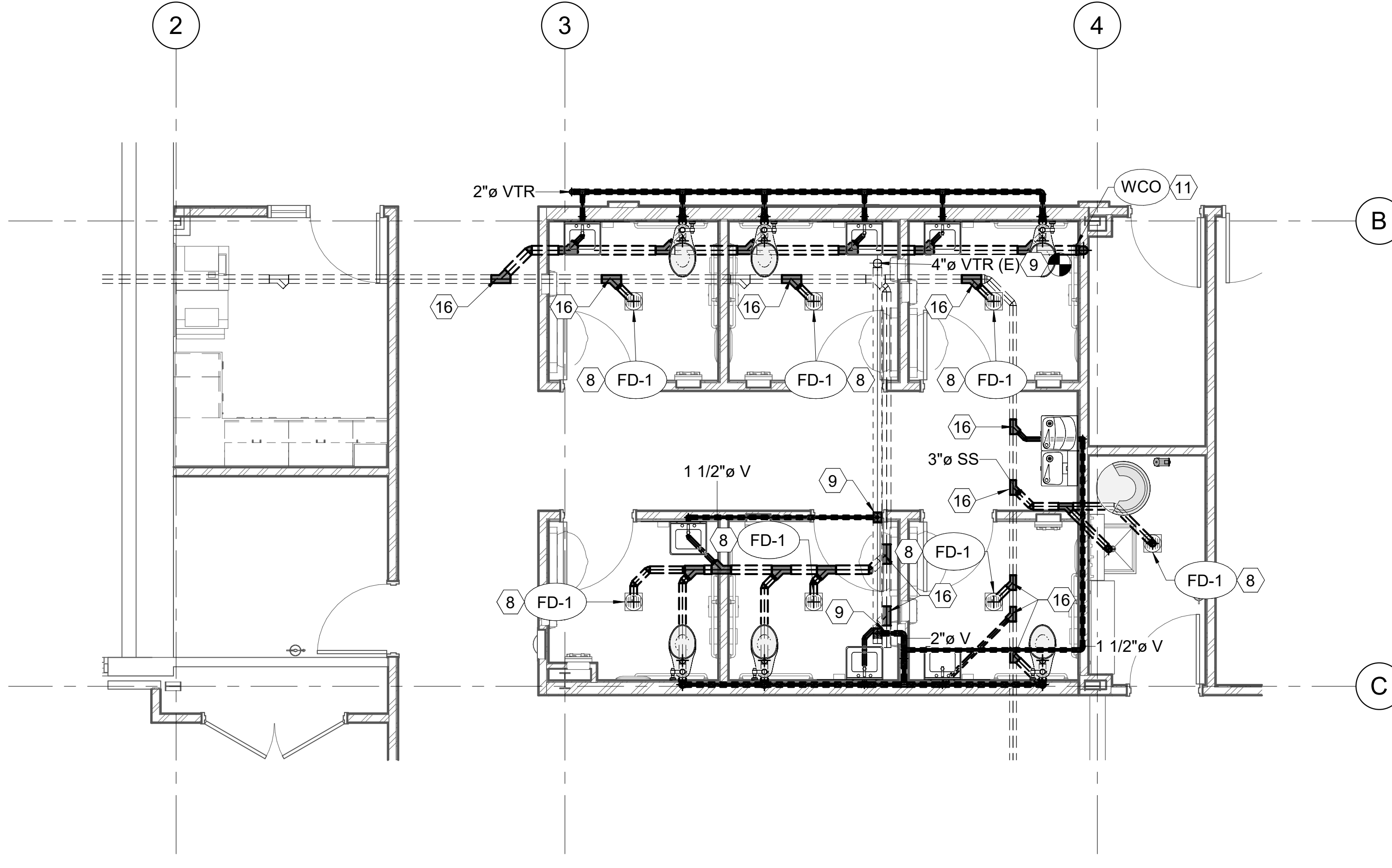
- TIE INTO EXISTING UNDERGROUND COLD WATER PIPING IN THIS APPROXIMATE LOCATION. COORDINATE WITH ARCHITECT AND G.C. TO CUT AND PATCH FLOOR TO ALLOW NEW WATER LINE TO PRV CLOSET. COORDINATE WITH ARCHITECT FOR ACCESS PANEL.
- PROVIDE NEW PRV STATION AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION. SEE PE501 FOR PIPING DETAILS.
- PROVIDE NEW ELECTRIC WATER COOLER AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- PROVIDE NEW WATER CLOSET AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- PROVIDE NEW URINAL AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- PROVIDE NEW LAVATORY AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- PROVIDE NEW MOP SINK AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- PROVIDE NEW FLOOR DRAIN IN THIS APPROXIMATE LOCATION.
- TIE INTO EXISTING VENT PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTIONS.
- CONNECT EXISTING WASTE PIPING TO NEW WASTE PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION.
- PROVIDE WALL CLEAN OUT IN THIS APPROXIMATE LOCATION.
- TIE INTO DOMESTIC WATER PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT POINTS OF CONNECTION.
- PROVIDE NEW WATER HEATER AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION. SEE PE501 FOR PIPING DETAILS.
- PROVIDE NEW RECIRCULATION PUMP IN THIS APPROXIMATE LOCATION. SEE WATER HEATER DETAIL ON PE501 FOR PIPING DETAIL.
- PROVIDE CIRCUIT SETTER IN THIS APPROXIMATE LOCATION. SET TO 0.5 GPM.
- TIE INTO EXISTING UNDERGROUND WASTE PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY WITH CAMERA SCOPE EXACT ROUTING AND POINTS OF CONNECTION.
- TIE INTO EXISTING GAS PIPING ON THE ROOF IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION. PROVIDE GAS PIPING WITH FLEX CONNECTOR, DIRT LEG AND REGULATOR AT EACH RTU. SEE DETAIL A4/PE501.
- PROVIDE NEW HOSE BIB IN THIS APPROXIMATE LOCATION.



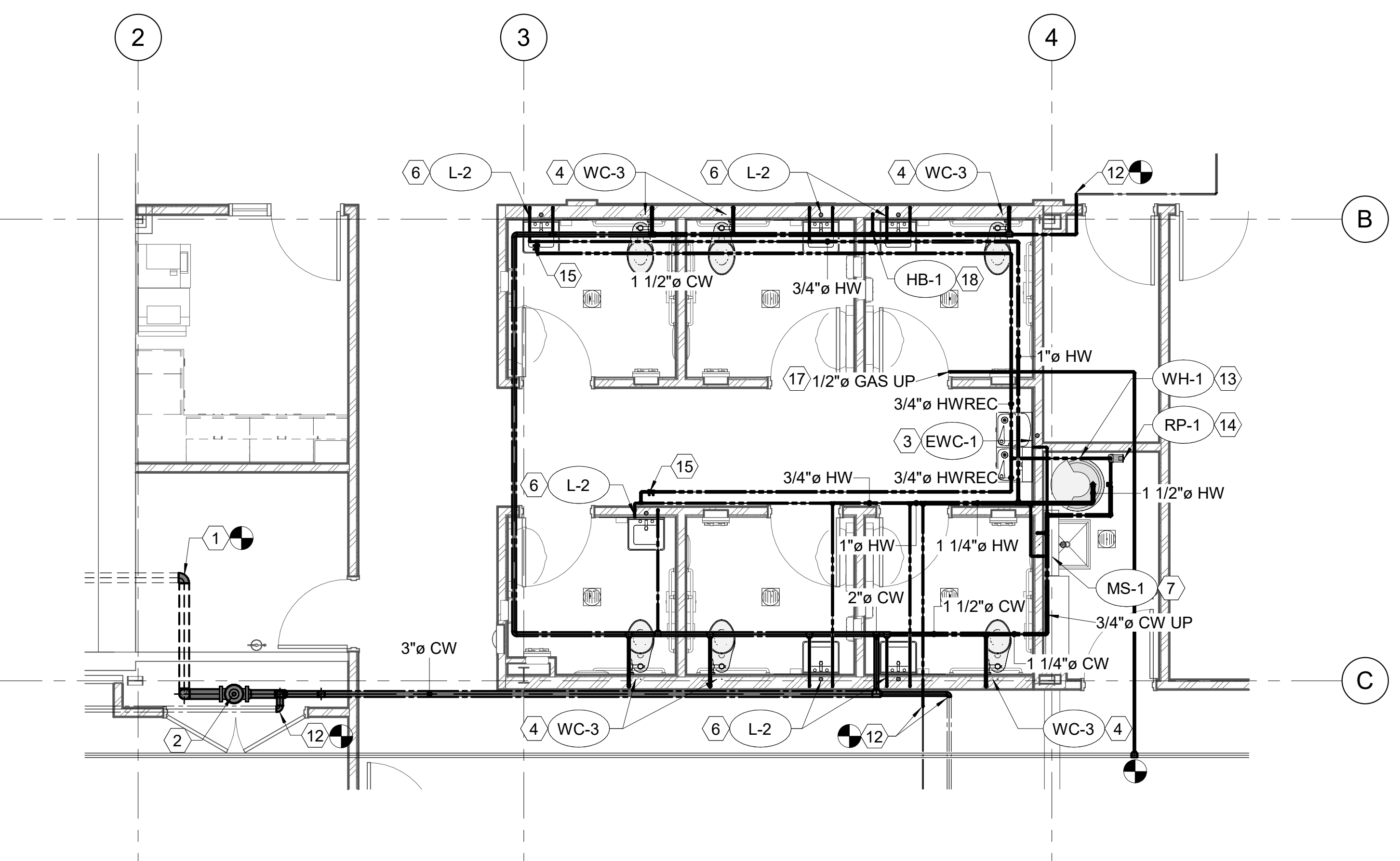
3 LEVEL 1 WASTE AND VENT PLAN - AREA B  
1/4" = 1'-0"



4 LEVEL 1 DOMESTIC WATER AND GAS PLAN - AREA B  
1/4" = 1'-0"



1 LEVEL 1 WASTE AND VENT PLAN - AREA A  
1/4" = 1'-0"



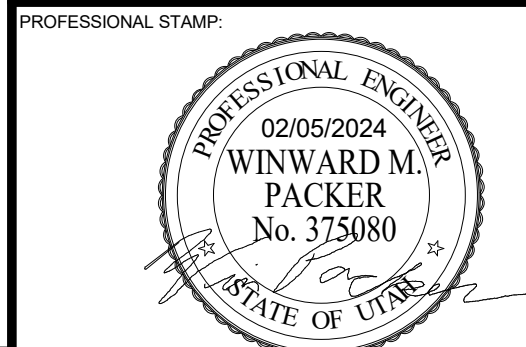
2 LEVEL 1 DOMESTIC WATER AND GAS PLAN - AREA A  
1/4" = 1'-0"





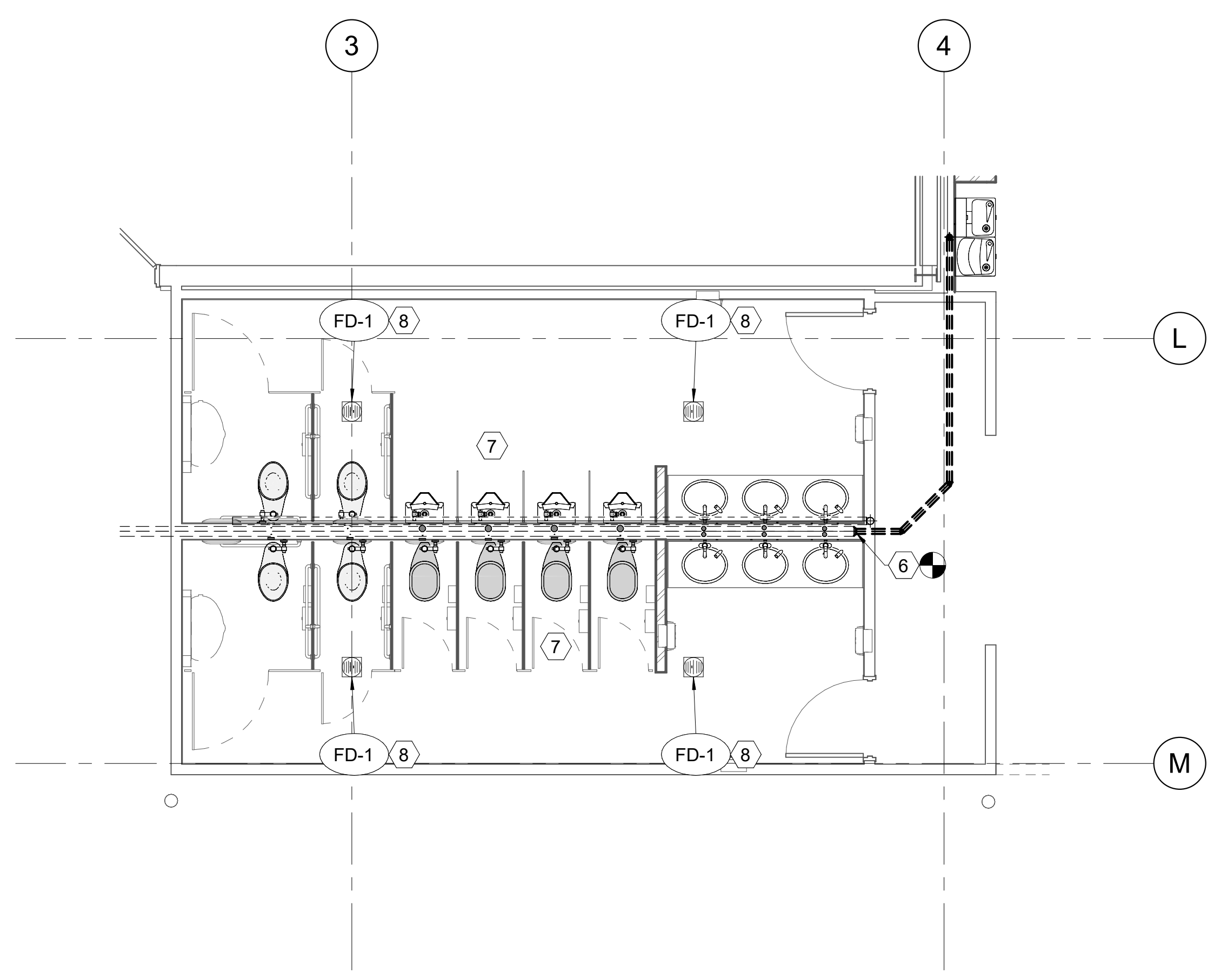


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 Kaysville, Utah 84037  
 1-801-298-1369  
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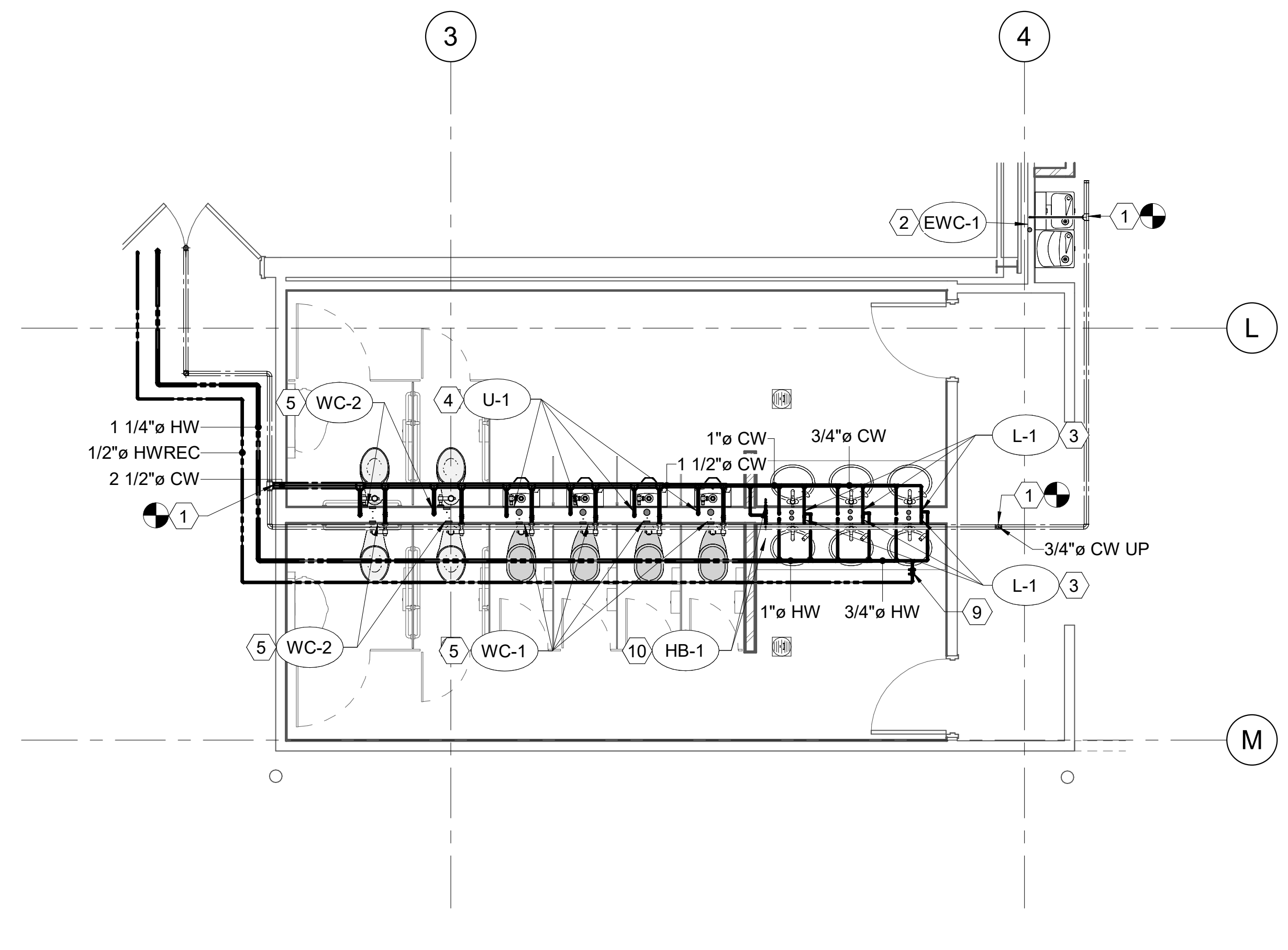


**SHEET NOTES**

- 1 TIE INTO DOMESTIC WATER PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT POINTS OF CONNECTION.
- 2 PROVIDE NEW ELECTRIC WATER COOLER AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- 3 PROVIDE NEW LAVATORY AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- 4 PROVIDE NEW URINAL AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- 5 PROVIDE NEW WATER CLOSET AND ALL ASSOCIATED ITEMS IN THIS APPROXIMATE LOCATION.
- 6 CONNECT EXISTING WASTE PIPING TO NEW WASTE PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION.
- 7 TIE NEW PLUMBING FIXTURES TO EXISTING WASTE PIPING AND VENT PIPING. FIELD VERIFY EXACT ROUTING AND POINTS OF CONNECTION.
- 8 PROVIDE NEW FLOOR DRAIN IN THIS APPROXIMATE LOCATION.
- 9 PROVIDE CIRCUIT SETTER IN THIS APPROXIMATE LOCATION. SET TO 0.5 GPM.
- 10 PROVIDE NEW HOSE BIB IN THIS APPROXIMATE LOCATION.



**1 LEVEL 1 WASTE AND VENT PLAN - AREA C**  
 1/4" = 1'-0"



**2 LEVEL 1 DOMESTIC WATER AND GAS PLAN - AREA C**  
 1/4" = 1'-0"

PROJECT NAME:  
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| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | AE                    |
| CHECKED BY:      | WP                    |
| DESIGNED BY:     | WVP                   |
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SHEET TITLE:  
**PLUMBING  
 LARGE SCALE  
 PLANS**  
 SHEET NUMBER:  
**PE402**



**WHW  
 ENGINEERING LLC.**  
 PROFESSIONAL, MECHANICAL ENGINEERING  
 819 South Parkway, Suite 101  
 SANDY, UTAH 84070  
 (801)966-4022 FAX 801-966-5028  
 EMAIL: wwh@whw-engineering.com







| PLUMBING FIXTURE SCHEDULE |   |                     |        |        |            |           |                            |                 |   |
|---------------------------|---|---------------------|--------|--------|------------|-----------|----------------------------|-----------------|---|
| EQUIPMENT NUMBER          | FIXTURE   | PLUMBING PIPE SIZES |        |        |            |           | POINT OF USE MIXING VALVE? | MAX OUTLET TEMP | REMARKS   |
|                           |   | TRAP                | WASTE  | VENT   | COLD WATER | HOT WATER |                            |                 |   |
| EWC-1                     | ELECTRIC WATER COOLER WITH BOTTLE FILLER          | 1 1/2"              | 1 1/2" | 1 1/2" | 1/2"       |           | No                         |                 | ELECTRIC BI-LEVEL DRINKING FOUNTAIN WITH INTEGRATED BOTTLE FILLING STATION. ELKAY LZSTL8WLSK OR EQUAL.  |
| FD-1                      | FLOOR DRAIN                                       | 3"                  | 3"     | 1 1/2" | 0"         | 0"        | No                         |                 | FLOOR DRAIN WITH TRAP GUARD. WATTS FD-100-A OR EQUAL.   |
| H-1                       | FREEZE PROOF ROOF HYDRANT                         | 0"                  | 0"     | 0"     | 3/4"       | 0"        | No                         |                 | KEYED FREEZE PROOF ROOF HYDRANT WITH ANTI-SYPHON DEVICE. MOUNT 24" ABOVE FINISHED GRADE. WOODFORD OR EQUAL.   |
| HB-1                      | HOSE BIBB   | 0"                  | 0"     | 0"     | 1/2"       | 0"        | No                         |                 | HOSE BIBB. KEYED HOSE BIBB WITH ANTI-SYPHON DEVICE. WOODFORD 24 OR EQUAL.   |
| L-1                       | UNDER COUNTER MOUNTED LAVATORY WITH SENSOR FAUCET | 1 1/2"              | 1 1/2" | 1 1/2" | 1/2"       | 1/2"      | Yes                        | 110 °F          | COUNTER MOUNTED DROP-IN SINK WITH HARD WIRED SENSOR FAUCET. PROVIDE UNDER LAV GUARDS. FAUCET TO BE CHROME FINISHED. PROVIDE THERMOSTATIC AND PRESSURE MIXING VALVE. KOHLER K-2196-4 WITH SYMMONS S-6080 SENSOR FAUCET OR EQUAL.                     |
| L-2                       | WALL MOUNTED LAVATORY WITH SENSOR FAUCET          | 1 1/2"              | 1 1/2" | 1 1/2" | 1/2"       | 1/2"      | Yes                        | 110 °F          | WALL MOUNTED SINK WITH HARD WIRED SENSOR FAUCET. PROVIDE UNDER LAV GUARDS. FAUCET TO BE CHROME FINISHED. PROVIDE THERMOSTATIC AND PRESSURE MIXING VALVE. KOHLER GREENWICH K-2032 WITH SYMMONS S-6080 SENSOR FAUCET OR EQUAL.                        |
| MS-1                      | CORNER MOUNTED MOP SINK                           | 3"                  | 3"     | 2"     | 3/4"       | 3/4"      | Yes                        | 120 °F          | CORNER-MOUNTED MOP SINK. PROVIDE WITH DRAIN FITTING. SERVICE SINK FAUCET WITH VACUUM BREAKER, THREADED HOSE CONNECTION, HOSE, 3 STATION MOP HOLDER, HOSE HANGER, AND STAINLESS STEEL SPLASH GUARD. KOHLER K6710 WITH CHICAGO 540-LD897SCP OR EQUAL. |
| RP-1                      | RECIRC PUMP                                       | 0"                  | 0"     | 0"     | 0"         | 3/4"      | No                         |                 | PROVIDE B&G PL-55 OR EQUAL. MEETS WITH NSF61. 120 V, SINGLE PHASE, 1/6 HP.  |
| RP-2                      | RECIRC PUMP                                       | 0"                  | 0"     | 0"     | 0"         | 3/4"      | No                         |                 | PROVIDE B&G PL-55 OR EQUAL. MEETS WITH NSF61. 120 V, SINGLE PHASE, 1/6 HP.  |
| U-1                       | SENSOR FLUSH URINAL                               | 3"                  | 3"     | 2"     | 3/4"       | 0"        | No                         |                 | WALL-MOUNTED FLUSH VALVE URINAL. PROVIDE 0.5 GALLON FLUSH VALVE WITH HARD WIRED SENSOR. AMERICAN STANDARD WASHBROOK 6590001.020 WITH SLOAN REGAL 186 SMO OR EQUAL.  |
| WC-1                      | WALL MOUNTED WATER CLOSET WITH SENSOR FLUSH       | 3"                  | 3"     | 2"     | 1"         | 0"        | No                         |                 | WALL-MOUNTED WATER CLOSET WITH HARD WIRED SENSOR FLUSH VALVE. PROVIDE 1.6 GPF WATER CLOSET WITH FLUSH CONTROLS INSTALLED ON OPEN SIDE OF WATER CLOSET. KOHLER KINGSTON K-4325 WITH SLOAN REGAL 111 DFSM OR EQUAL.                                   |
| WC-2                      | WALL MOUNTED ADA WATER CLOSET WITH SENSOR FLUSH   | 3"                  | 3"     | 2"     | 1"         | 0"        | No                         |                 | ADA COMPLIANT WALL-MOUNTED WATER CLOSET WITH HARD WIRED SENSOR FLUSH VALVE. PROVIDE 1.6 GPF WATER CLOSET WITH FLUSH CONTROLS INSTALLED ON OPEN SIDE OF WATER CLOSET. KOHLER KINGSTON K-4325 WITH SLOAN SMOOTH 111 OR EQUAL.                         |
| WC-3                      | FLOOR MOUNTED ADA WATER CLOSET WITH SENSOR FLUSH  | 3"                  | 3"     | 2"     | 1"         | 0"        | No                         |                 | ADA COMPLIANT FLOOR-MOUNTED WATER CLOSET WITH BATTERY SENSOR FLUSH VALVE. PROVIDE 1.6 GPF WATER CLOSET WITH FLUSH CONTROLS INSTALLED ON OPEN SIDE OF WATER CLOSET. AMERICAN STANDARD MADERA WITH SLOAN SMOOTH 111 OR EQUAL.                         |

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.

| WATER HEATER (GAS) SCHEDULE |                |                 |                      |                  |                                    |                   |                               |        |                  |                 |                |  |
|-----------------------------|----------------|-----------------|----------------------|------------------|------------------------------------|-------------------|-------------------------------|--------|------------------|-----------------|----------------|--|
| EQUIPMENT NUMBER            | INPUT (BTU/HR) | OUTPUT (BTU/HR) | GPH RECOVERY @ 100 F | STORAGE CAPACITY | RELIEF VALVE BTU / PRESSURE RATING | TANK STORAGE TEMP | MASTER MIXING VALVE REQUIRED? | FLUE   | OPERATING WEIGHT | MANUF & MODEL   | SCHEDULE NOTES |  |
| WH-1                        | 120,000 Btu/h  | 114,000 Btu/h   | 138                  | 60 gal           | PER MANUFACTURERS RECOMMENDATIONS  | 140 °F            | No                            | 3" PVC | 960 lb           | AO SMITH BTH120 | 1,2,3          |  |
| WH-2                        | 120,000 Btu/h  | 114,000 Btu/h   | 138                  | 60 gal           | PER MANUFACTURERS RECOMMENDATIONS  | 140 °F            | No                            | 3" PVC | 960 lb           | AO SMITH BTH120 | 1,2,3          |  |

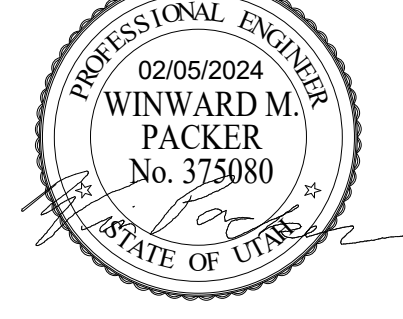
1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.  
 2. 120/1/60 - 30 AMP BREAKER  
 3. HIGH ALTITUDE MODEL.

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t: 801-298-1366  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



PROFESSIONAL ENGINEER  
 02/05/2024  
 WINWARD M. PACKER  
 No. 375080  
 STATE OF UTAH

CODE OFFICIAL STAMP



REVIEWED FOR CODE COMPLIANCE  
 03/06/2024  
 WWW.PENPACKER.COM  
 CONSTRUCTION AND MECHANICAL

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

REVISIONS

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

ISSUED:

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/09/24 | PERMIT SET  |

|                  |                       |
|------------------|-----------------------|
| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | AE                    |
| CHECKED BY:      | WP                    |
| DESIGNED BY:     | WP                    |
| COPYRIGHT:       | © 2023 SPE ARCHITECTS |

SHEET TITLE:  
**PLUMBING SCHEDULES**

SHEET NUMBER:  
**PE601**



**WHW ENGINEERING LLC.**  
 PROFESSIONAL MECHANICAL ENGINEERING  
 819 South Parkway, Suite 101  
 SANDY, UTAH 84070  
 (801) 466-4222 FAX 801-466-5258  
 EMAIL: wwh@whw-engineering.com



| ONE-LINE SYMBOLS |                                    | DESCRIPTION |  | LIGHTING SYMBOLS   |  |                          |  | WIRING DEVICE SYMBOLS |                               |          |   | GENERAL SYMBOLS |                           |          |         | ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES   |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
|------------------|------------------------------------|-------------|--|--|--|--------------------------|--|-----------------------|-------------------------------|----------|---|-----------------|---------------------------|----------|---------|--|---|---|---------|---|---------------|----|----------------------|-----|----------------|------|------------------------------------|-----|----------|-----|--------------------------------------|-----|----------------------|-----|---------------------|----|---------------------------|-----|----------------------|-----|---------------------------|-----|----------------------|-----|-----------|-----|----------------|-----|---------------------|----|----------------|-----|----------------------------|----|-----------|------|----------|----|-----------------|------|----------|-----|------------------------|----|-----------------|-----|-----------------|----|----------------|----|-------------|----|---------|----|---------------|----|---------------------|----|----------------|-----|----------------|------|-------------------------|-----|--------|------|--------------------------------|----|--------|----|----------------|-----|----------------------------|----|-------|----|----|----|--------------|----|------|-----|-------|----|------------------|-----|----------|-----|-------------------------------|---|--------|------|------------|-----|--------------|----|-----------|-----|--------------|-----|--------------------------|-----|-----------------------------------|-----|-----------------------------|-----|---------------------|-----|-----------|-----|----------------------|-----|-----------------------|-----|---------------------------|-----|-----------------|---|---------------------|----|------------|---|-----------------|------|--------------------------|-----|-----------------------|-----|------------------------|-----|------------------------|-----|-------------|-----|---------------|----|-------------|-----|--------------------------|-----|-------------------|----|------------------------|-----|-------------------|------|----------------------------|-----|-------------------------------|-----|-------------------------------------|------|----------------|------|--|-----|---------------|----|------------------|-----|---------------|-----|--------------------------|-----|---------------|----|-------------|----|---------------------|----|-------------|-----|-----------|-----|------------------------|-----|-----------|-----|----------------------|-----|-----------|-----|---------------------------|-----|-----------|---|------|-----|-----------|----|---------|-------|-------------------|----|---------------|-----|-------------------|----|-------------------|----|-----------|-----|-------------------------------|------|-------------------------------|--|--|
| SYMBOL           | DESCRIPTION                        | SYMBOL      | DESCRIPTION                              | SYMBOL   | DESCRIPTION                                    | MOUNTING                 | REMARKS  | SYMBOL                | DESCRIPTION                   | MOUNTING | REMARKS                                 | SYMBOL          | DESCRIPTION               | MOUNTING | REMARKS | SYMBOL   | DESCRIPTION   | MOUNTING  | REMARKS |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| [Symbol]         | LIGHTING AND APPLIANCE PANEL BOARD | [Symbol]    | DISTRIBUTION PANEL                       | <p>1. LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.</p> <p>2. ARROWS INDICATE AIMING DIRECTION.</p> |  |                          |  | [Symbol]              | SPLIT-WIRED DUPLEX RECEPTACLE | +18"     |   | [Symbol]        | KEYED NOTE                |          |         |  | [Symbol]  | 1. MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX. |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| [Symbol]         | CIRCUIT BREAKER                    | [Symbol]    | CIRCUIT BREAKER ENCLOSED                 | [Symbol]   | ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE | AS SPECIFIED OR DETAILED |  | [Symbol]              | SIMPLEX RECEPTACLE            | +18"     |   | [Symbol]        | DETAIL REFERENCE          |          |         | [Symbol]   | 2. WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.  |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| [Symbol]         | SPARE                              | [Symbol]    | THERMAL OVERLOAD                         | [Symbol]   | ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE | AS SPECIFIED OR DETAILED |  | [Symbol]              | DUPLEX RECEPTACLE             | +18"     |   | [Symbol]        | ELEVATION REFERENCE       |          |         | [Symbol]   | 3. WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH MOUNT AT 4" ABOVE BACK SPLASH, REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER. |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| [Symbol]         | MOTOR                              | [Symbol]    | KEY INTERLOCK                            | [Symbol]   | POST-TOP SINGLE-HEAD LIGHT FIXTURE AND POLE    | AS SPECIFIED OR DETAILED |  | [Symbol]              | FOURPLEX RECEPTACLE           | +18"     |   | [Symbol]        | SECTION REFERENCE         |          |         | [Symbol]   | 4. NOT ALL ELECTRICAL SYMBOLS MAY BE USED.  |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| [Symbol]         | SURGE SUPPRESSION DEVICE           | [Symbol]    | DISCONNECT SWITCH FUSED                  | [Symbol]   | WALL-MOUNTED LIGHT FIXTURE                     | AS SPECIFIED OR DETAILED | REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT | [Symbol]              | 125/250V RECEPTACLE           | +18"     | RANGE - NEMA 14-30R DRYER - NEMA 14-30R | [Symbol]        | ARCHITECTURAL ROOM NUMBER |          |         | <p><b>ABBREVIATION SCHEDULE</b></p> <p>NOTE: NOT ALL ABBREVIATIONS MAY BE USED.</p> <table border="1"> <tr> <td>A</td><td>ABOVE COUNTER</td> <td>LS</td><td>LONG-TIME SHORT-TIME</td> </tr> <tr> <td>ACC</td><td>ACCESS CONTROL</td> <td>LSIG</td><td>LONG-TIME SHORT-TIME INSTANTANEOUS</td> </tr> <tr> <td>ADJ</td><td>ADJACENT</td> <td>LTG</td><td>LONG-TIME INSTANTANEOUS GROUND FAULT</td> </tr> <tr> <td>AHJ</td><td>ABOVE FINISHED FLOOR</td> <td>MBJ</td><td>MAIN BONDING JUMPER</td> </tr> <tr> <td>AL</td><td>AUTOMATIC TRANSFER SWITCH</td> <td>MCA</td><td>MINIMUM CIRCUIT AMPS</td> </tr> <tr> <td>ATS</td><td>AUTOMATIC TRANSFER SWITCH</td> <td>MCB</td><td>MAIN CIRCUIT BREAKER</td> </tr> <tr> <td>AUX</td><td>AUXILIARY</td> <td>MLO</td><td>MAIN LUGS ONLY</td> </tr> <tr> <td>AVG</td><td>AMERICAN WIRE GAUGE</td> <td>MV</td><td>MEDIUM VOLTAGE</td> </tr> <tr> <td>BAS</td><td>BUILDING AUTOMATION SYSTEM</td> <td>MW</td><td>MICROWAVE</td> </tr> <tr> <td>BLDG</td><td>BUILDING</td> <td>NC</td><td>NORMALLY CLOSED</td> </tr> <tr> <td>BLDG</td><td>BUILDING</td> <td>NEC</td><td>NATIONAL ELECTRIC CODE</td> </tr> <tr> <td>CB</td><td>CIRCUIT BREAKER</td> <td>NIC</td><td>NOT IN CONTRACT</td> </tr> <tr> <td>CD</td><td>COMMUNICATIONS</td> <td>NL</td><td>NIGHT LIGHT</td> </tr> <tr> <td>CG</td><td>CEILING</td> <td>NO</td><td>NORMALLY OPEN</td> </tr> <tr> <td>CO</td><td>CONVENIENCE OUTLETS</td> <td>OC</td><td>OVER CENTER(S)</td> </tr> <tr> <td>COM</td><td>COMMUNICATIONS</td> <td>OCPD</td><td>OVER CURRENT PROTECTION</td> </tr> <tr> <td>COP</td><td>COPPER</td> <td>OCPD</td><td>OVER CURRENT PROTECTION DEVICE</td> </tr> <tr> <td>CU</td><td>COPPER</td> <td>PA</td><td>PUBLIC ADDRESS</td> </tr> <tr> <td>DAS</td><td>DISTRIBUTED ANTENNA SYSTEM</td> <td>PH</td><td>PHASE</td> </tr> <tr> <td>DB</td><td>DB</td> <td>PH</td><td>PHOTOVOLTAIC</td> </tr> <tr> <td>EA</td><td>EACH</td> <td>PWR</td><td>POWER</td> </tr> <tr> <td>EG</td><td>EQUIPMENT GROUND</td> <td>QTY</td><td>QUANTITY</td> </tr> <tr> <td>EIP</td><td>EQUIPMENT GROUNDING CONDUCTOR</td> <td>R</td><td>REMOVE</td> </tr> <tr> <td>ELEC</td><td>ELECTRICAL</td> <td>REF</td><td>REFRIGERATOR</td> </tr> <tr> <td>EM</td><td>EMERGENCY</td> <td>REQ</td><td>REQUIREMENTS</td> </tr> <tr> <td>EMT</td><td>ELECTRIC METALLIC TUBING</td> <td>REC</td><td>RIGID GALVANIZED METALLIC CONDUIT</td> </tr> <tr> <td>ENT</td><td>ELECTRIC NONMETALLIC TUBING</td> <td>RMC</td><td>RIGID METAL CONDUIT</td> </tr> <tr> <td>EQU</td><td>EQUIPMENT</td> <td>RMP</td><td>ROCKY MOUNTAIN POWER</td> </tr> <tr> <td>EWC</td><td>ELECTRIC WATER COOLER</td> <td>RNC</td><td>RIGID NONMETALLIC CONDUIT</td> </tr> <tr> <td>EXP</td><td>EXPLOSION PROOF</td> <td>R</td><td>REMOVE AND RELOCATE</td> </tr> <tr> <td>FA</td><td>FIRE ALARM</td> <td>S</td><td>SURFACE MOUNTED</td> </tr> <tr> <td>FACP</td><td>FIRE ALARM CONTROL PANEL</td> <td>SBJ</td><td>SYSTEM BONDING JUMPER</td> </tr> <tr> <td>FAM</td><td>FLEXIBLE METAL CONDUIT</td> <td>SCP</td><td>SECURITY CONTROL PANEL</td> </tr> <tr> <td>FIB</td><td>FIBER OPTIC</td> <td>SFL</td><td>SUB-FEED LUSS</td> </tr> <tr> <td>FO</td><td>FIBER OPTIC</td> <td>SPD</td><td>SURGE SUPPRESSION DEVICE</td> </tr> <tr> <td>FTL</td><td>FEED-THROUGH LUGS</td> <td>SS</td><td>SECURITY CONTROL PANEL</td> </tr> <tr> <td>FTL</td><td>FEED-THROUGH LUGS</td> <td>SSBJ</td><td>SUPPLY SIDE BONDING JUMPER</td> </tr> <tr> <td>GND</td><td>GROUNDING ELECTRODE CONDUCTOR</td> <td>TGB</td><td>TELECOMMUNICATION GROUNDING BUS BAR</td> </tr> <tr> <td>HOSP</td><td>HOSPITAL GRADE</td> <td>TMBG</td><td>TELECOMMUNICATION MAIN GROUNDING BUS BAR</td> </tr> <tr> <td>HZA</td><td>HAND-OFF AUTO</td> <td>TR</td><td>TAMPER RESISTANT</td> </tr> <tr> <td>HZA</td><td>HAND-OFF AUTO</td> <td>TYP</td><td>TELEPHONE TERMINAL BOARD</td> </tr> <tr> <td>HZA</td><td>HAND-OFF AUTO</td> <td>UF</td><td>UNDER FLOOR</td> </tr> <tr> <td>ID</td><td>INTRUSION DETECTION</td> <td>UG</td><td>UNDERGROUND</td> </tr> <tr> <td>INS</td><td>INSULATED</td> <td>UNO</td><td>UNLESS NOTED OTHERWISE</td> </tr> <tr> <td>INS</td><td>INSULATED</td> <td>USB</td><td>UNIVERSAL SERIAL BUS</td> </tr> <tr> <td>INS</td><td>INSULATED</td> <td>VSS</td><td>VIDEO SURVEILLANCE SYSTEM</td> </tr> <tr> <td>INS</td><td>INSULATED</td> <td>W</td><td>WITH</td> </tr> <tr> <td>INS</td><td>INSULATED</td> <td>WO</td><td>WITHOUT</td> </tr> <tr> <td>KCMIL</td><td>KILO CIRCULAR MIL</td> <td>WP</td><td>WEATHER PROOF</td> </tr> <tr> <td>KVA</td><td>KILO VOLT AMPERES</td> <td>WR</td><td>WEATHER RESISTANT</td> </tr> <tr> <td>KW</td><td>KILOWATTS</td> <td>WTR</td><td>WEATHER RESISTANT TRANSFORMER</td> </tr> <tr> <td>LFNC</td><td>LIQUID-TIGHT NONMETAL CONDUIT</td> <td></td><td></td> </tr> </table> |   |   |         | A | ABOVE COUNTER | LS | LONG-TIME SHORT-TIME | ACC | ACCESS CONTROL | LSIG | LONG-TIME SHORT-TIME INSTANTANEOUS | ADJ | ADJACENT | LTG | LONG-TIME INSTANTANEOUS GROUND FAULT | AHJ | ABOVE FINISHED FLOOR | MBJ | MAIN BONDING JUMPER | AL | AUTOMATIC TRANSFER SWITCH | MCA | MINIMUM CIRCUIT AMPS | ATS | AUTOMATIC TRANSFER SWITCH | MCB | MAIN CIRCUIT BREAKER | AUX | AUXILIARY | MLO | MAIN LUGS ONLY | AVG | AMERICAN WIRE GAUGE | MV | MEDIUM VOLTAGE | BAS | BUILDING AUTOMATION SYSTEM | MW | MICROWAVE | BLDG | BUILDING | NC | NORMALLY CLOSED | BLDG | BUILDING | NEC | NATIONAL ELECTRIC CODE | CB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT | CD | COMMUNICATIONS | NL | NIGHT LIGHT | CG | CEILING | NO | NORMALLY OPEN | CO | CONVENIENCE OUTLETS | OC | OVER CENTER(S) | COM | COMMUNICATIONS | OCPD | OVER CURRENT PROTECTION | COP | COPPER | OCPD | OVER CURRENT PROTECTION DEVICE | CU | COPPER | PA | PUBLIC ADDRESS | DAS | DISTRIBUTED ANTENNA SYSTEM | PH | PHASE | DB | DB | PH | PHOTOVOLTAIC | EA | EACH | PWR | POWER | EG | EQUIPMENT GROUND | QTY | QUANTITY | EIP | EQUIPMENT GROUNDING CONDUCTOR | R | REMOVE | ELEC | ELECTRICAL | REF | REFRIGERATOR | EM | EMERGENCY | REQ | REQUIREMENTS | EMT | ELECTRIC METALLIC TUBING | REC | RIGID GALVANIZED METALLIC CONDUIT | ENT | ELECTRIC NONMETALLIC TUBING | RMC | RIGID METAL CONDUIT | EQU | EQUIPMENT | RMP | ROCKY MOUNTAIN POWER | EWC | ELECTRIC WATER COOLER | RNC | RIGID NONMETALLIC CONDUIT | EXP | EXPLOSION PROOF | R | REMOVE AND RELOCATE | FA | FIRE ALARM | S | SURFACE MOUNTED | FACP | FIRE ALARM CONTROL PANEL | SBJ | SYSTEM BONDING JUMPER | FAM | FLEXIBLE METAL CONDUIT | SCP | SECURITY CONTROL PANEL | FIB | FIBER OPTIC | SFL | SUB-FEED LUSS | FO | FIBER OPTIC | SPD | SURGE SUPPRESSION DEVICE | FTL | FEED-THROUGH LUGS | SS | SECURITY CONTROL PANEL | FTL | FEED-THROUGH LUGS | SSBJ | SUPPLY SIDE BONDING JUMPER | GND | GROUNDING ELECTRODE CONDUCTOR | TGB | TELECOMMUNICATION GROUNDING BUS BAR | HOSP | HOSPITAL GRADE | TMBG | TELECOMMUNICATION MAIN GROUNDING BUS BAR | HZA | HAND-OFF AUTO | TR | TAMPER RESISTANT | HZA | HAND-OFF AUTO | TYP | TELEPHONE TERMINAL BOARD | HZA | HAND-OFF AUTO | UF | UNDER FLOOR | ID | INTRUSION DETECTION | UG | UNDERGROUND | INS | INSULATED | UNO | UNLESS NOTED OTHERWISE | INS | INSULATED | USB | UNIVERSAL SERIAL BUS | INS | INSULATED | VSS | VIDEO SURVEILLANCE SYSTEM | INS | INSULATED | W | WITH | INS | INSULATED | WO | WITHOUT | KCMIL | KILO CIRCULAR MIL | WP | WEATHER PROOF | KVA | KILO VOLT AMPERES | WR | WEATHER RESISTANT | KW | KILOWATTS | WTR | WEATHER RESISTANT TRANSFORMER | LFNC | LIQUID-TIGHT NONMETAL CONDUIT |  |  |
| A                | ABOVE COUNTER                      | LS          | LONG-TIME SHORT-TIME                     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| ACC              | ACCESS CONTROL                     | LSIG        | LONG-TIME SHORT-TIME INSTANTANEOUS       |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| ADJ              | ADJACENT                           | LTG         | LONG-TIME INSTANTANEOUS GROUND FAULT     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| AHJ              | ABOVE FINISHED FLOOR               | MBJ         | MAIN BONDING JUMPER                      |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| AL               | AUTOMATIC TRANSFER SWITCH          | MCA         | MINIMUM CIRCUIT AMPS                     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| ATS              | AUTOMATIC TRANSFER SWITCH          | MCB         | MAIN CIRCUIT BREAKER                     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| AUX              | AUXILIARY                          | MLO         | MAIN LUGS ONLY                           |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| AVG              | AMERICAN WIRE GAUGE                | MV          | MEDIUM VOLTAGE                           |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| BAS              | BUILDING AUTOMATION SYSTEM         | MW          | MICROWAVE                                |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| BLDG             | BUILDING                           | NC          | NORMALLY CLOSED                          |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| BLDG             | BUILDING                           | NEC         | NATIONAL ELECTRIC CODE                   |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| CB               | CIRCUIT BREAKER                    | NIC         | NOT IN CONTRACT                          |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| CD               | COMMUNICATIONS                     | NL          | NIGHT LIGHT                              |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| CG               | CEILING                            | NO          | NORMALLY OPEN                            |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| CO               | CONVENIENCE OUTLETS                | OC          | OVER CENTER(S)                           |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| COM              | COMMUNICATIONS                     | OCPD        | OVER CURRENT PROTECTION                  |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| COP              | COPPER                             | OCPD        | OVER CURRENT PROTECTION DEVICE           |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| CU               | COPPER                             | PA          | PUBLIC ADDRESS                           |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| DAS              | DISTRIBUTED ANTENNA SYSTEM         | PH          | PHASE                                    |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| DB               | DB                                 | PH          | PHOTOVOLTAIC                             |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EA               | EACH                               | PWR         | POWER                                    |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EG               | EQUIPMENT GROUND                   | QTY         | QUANTITY                                 |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EIP              | EQUIPMENT GROUNDING CONDUCTOR      | R           | REMOVE                                   |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| ELEC             | ELECTRICAL                         | REF         | REFRIGERATOR                             |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EM               | EMERGENCY                          | REQ         | REQUIREMENTS                             |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EMT              | ELECTRIC METALLIC TUBING           | REC         | RIGID GALVANIZED METALLIC CONDUIT        |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| ENT              | ELECTRIC NONMETALLIC TUBING        | RMC         | RIGID METAL CONDUIT                      |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EQU              | EQUIPMENT                          | RMP         | ROCKY MOUNTAIN POWER                     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EWC              | ELECTRIC WATER COOLER              | RNC         | RIGID NONMETALLIC CONDUIT                |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| EXP              | EXPLOSION PROOF                    | R           | REMOVE AND RELOCATE                      |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FA               | FIRE ALARM                         | S           | SURFACE MOUNTED                          |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FACP             | FIRE ALARM CONTROL PANEL           | SBJ         | SYSTEM BONDING JUMPER                    |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FAM              | FLEXIBLE METAL CONDUIT             | SCP         | SECURITY CONTROL PANEL                   |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FIB              | FIBER OPTIC                        | SFL         | SUB-FEED LUSS                            |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FO               | FIBER OPTIC                        | SPD         | SURGE SUPPRESSION DEVICE                 |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FTL              | FEED-THROUGH LUGS                  | SS          | SECURITY CONTROL PANEL                   |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| FTL              | FEED-THROUGH LUGS                  | SSBJ        | SUPPLY SIDE BONDING JUMPER               |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| GND              | GROUNDING ELECTRODE CONDUCTOR      | TGB         | TELECOMMUNICATION GROUNDING BUS BAR      |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| HOSP             | HOSPITAL GRADE                     | TMBG        | TELECOMMUNICATION MAIN GROUNDING BUS BAR |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| HZA              | HAND-OFF AUTO                      | TR          | TAMPER RESISTANT                         |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| HZA              | HAND-OFF AUTO                      | TYP         | TELEPHONE TERMINAL BOARD                 |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| HZA              | HAND-OFF AUTO                      | UF          | UNDER FLOOR                              |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| ID               | INTRUSION DETECTION                | UG          | UNDERGROUND                              |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| INS              | INSULATED                          | UNO         | UNLESS NOTED OTHERWISE                   |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| INS              | INSULATED                          | USB         | UNIVERSAL SERIAL BUS                     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| INS              | INSULATED                          | VSS         | VIDEO SURVEILLANCE SYSTEM                |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| INS              | INSULATED                          | W           | WITH                                     |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| INS              | INSULATED                          | WO          | WITHOUT                                  |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| KCMIL            | KILO CIRCULAR MIL                  | WP          | WEATHER PROOF                            |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| KVA              | KILO VOLT AMPERES                  | WR          | WEATHER RESISTANT                        |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| KW               | KILOWATTS                          | WTR         | WEATHER RESISTANT TRANSFORMER            |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |
| LFNC             | LIQUID-TIGHT NONMETAL CONDUIT      |             |  |  |  |                          |  |                       |                               |          |   |                 |                           |          |         |  |   |   |         |   |               |    |                      |     |                |      |                                    |     |          |     |                                      |     |                      |     |                     |    |                           |     |                      |     |                           |     |                      |     |           |     |                |     |                     |    |                |     |                            |    |           |      |          |    |                 |      |          |     |                        |    |                 |     |                 |    |                |    |             |    |         |    |               |    |                     |    |                |     |                |      |                         |     |        |      |                                |    |        |    |                |     |                            |    |       |    |    |    |              |    |      |     |       |    |                  |     |          |     |                               |   |        |      |            |     |              |    |           |     |              |     |                          |     |                                   |     |                             |     |                     |     |           |     |                      |     |                       |     |                           |     |                 |   |                     |    |            |   |                 |      |                          |     |                       |     |                        |     |                        |     |             |     |               |    |             |     |                          |     |                   |    |                        |     |                   |      |                            |     |                               |     |                                     |      |                |      |  |     |               |    |                  |     |               |     |                          |     |               |    |             |    |                     |    |             |     |           |     |                        |     |           |     |                      |     |           |     |                           |     |           |   |      |     |           |    |         |       |                   |    |               |     |                   |    |                   |    |           |     |                               |      |                               |  |  |

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
1.801.298.1366  
info@spe-architect.com  
www.spe-architect.com

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GENERAL NOTES AND SYMBOLS LISTS

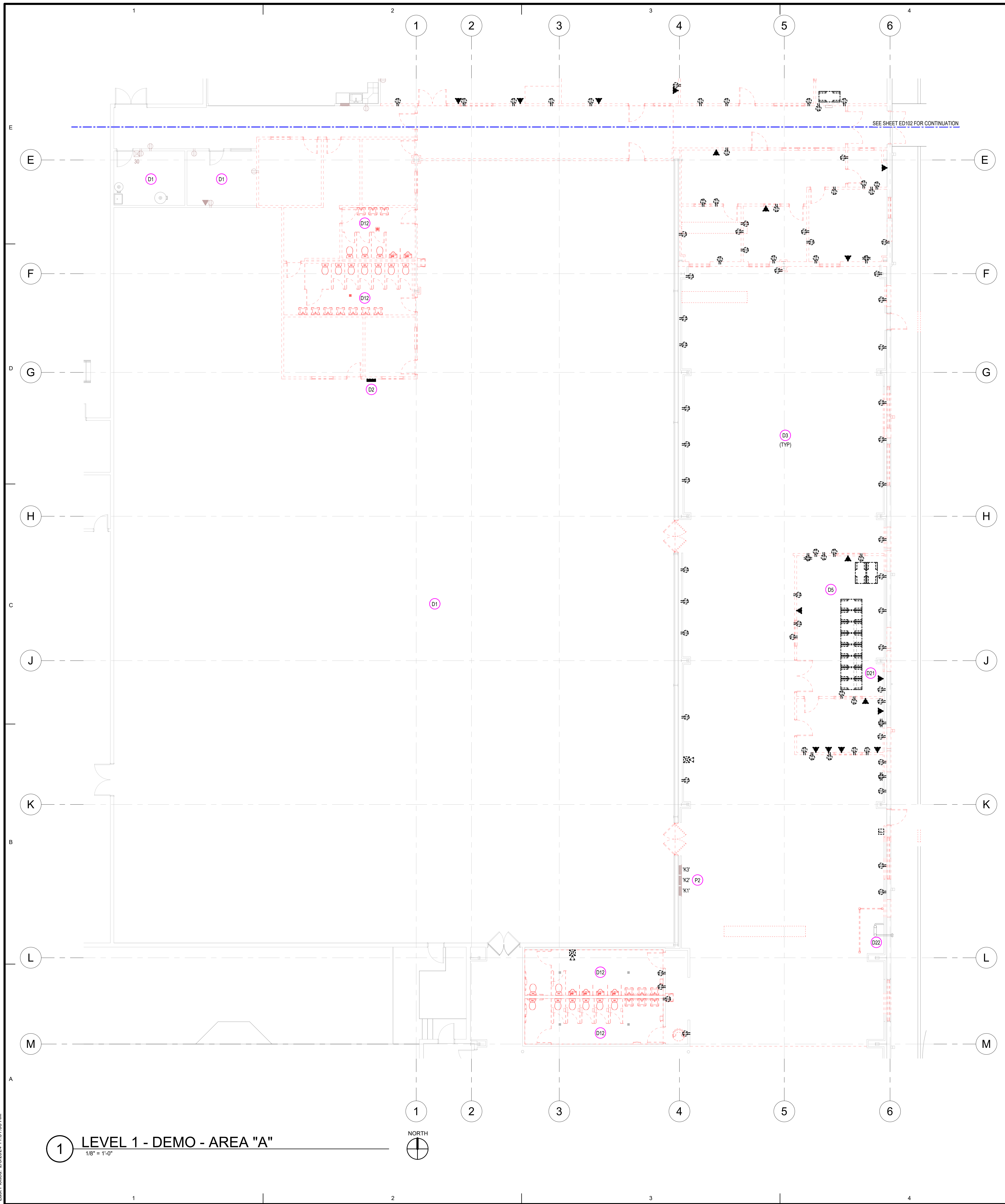
ENVISSION ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P: (801) 534-1080  
www.envisioneng.com

**GENERAL PROJECT NOTES:**

- DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THESE DEFICIENCIES. THERE WILL BE NO EXCEPTIONS.
- THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING. AT THEIR DISCRETION WITH THE ELECTRICAL ENGINEER AND REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
- THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS. THESE ITEMS DO NOT REPRESENT ALL ITEMS AND THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THE SPECIFICATIONS:
  - INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
  - A DEDICATED NEUTRAL CONDUCTOR WILL BE PROVIDED FOR ALL LIGHTING AND POWER CIRCUITS.
  - THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
  - THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL AND NATIONAL CODE.
- THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT THE APPROVAL FROM THE ELECTRICAL ENGINEER.
- THE CONTRACTOR SHALL INSTALL THE WIRE SIZES AS CALLED OUT ON THE ONE-LINE DIAGRAM. EQUIPMENT SCHEDULES, VOLTAGE DROP TABLES, AND ELECTRICAL SPECIFICATIONS HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS SIZED LARGE ENOUGH TO ALLOW FOR VOLTAGE DROP.
- THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB. PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT, CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO EXTRA PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR SHALL MAKE SURE THAT ALL BRANCH CIRCUITS THAT ARE AFFECTED BY THIS PROJECT ARE NOT OVERLOADED. PROVIDE ADDITIONAL BRANCH CIRCUITS FROM EXISTING PANELS AS NECESSARY TO COMPLY WITH THE BRANCH CIRCUIT LOADING REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR AS NECESSARY FOR A COMPLETE AND OPERATING SYSTEM.
- PROVIDE UPDATED, TYPED PANELBOARD SCHEDULE(S) TO REFLECT ALL THE CHANGES MADE INCLUDING EXISTING LOADS. THE EXISTING LOADS SHALL BE NAMED THE SAME AS LISTED ON THE EXISTING PANELBOARD SCHEDULE.

EG001





**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM. CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE. IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK. IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS, WITH THE ARCHITECT (FOR RESOLUTION), BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**EXISTING CONCRETE MODIFICATIONS (TYPICAL):**

NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT/REMOVED OR OTHERWISE MODIFIED (WEATHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAY/RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING UNDER SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR. COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQD. TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH/FILL SAWCUT AREAS PER D3/AE-55 - COORDINATE WITH MEP DRAWINGS.

**GENERAL DEMOLITION NOTES:**

- UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
  - DISCONNECT AND REMOVE ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
  - RELOCATE, REWIRE, AND/OR RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
  - LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
  - REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
  - EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
  - CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
  - DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
  - COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
  - FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
- ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

**KEYED NOTES**

- D1 THIS AREA IS NOT WITHIN THE SCOPE OF THIS PROJECT. EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE IS TO REMAIN AND BE REUSED.
- D2 PANELBOARD 'A' TO BE REMOVED AND RELOCATED TO NEW ELECTRICAL ROOM 114. REUSE AND REROUTE ALL CONDUIT AND CABLING TO NEW LOCATION. IF NECESSARY, INSTALL WIRE GUTTER TO PROVIDE A SPLICE POINT AT THE END OF SHORTEST RUN OF THE NEW CONDUIT ROUTE TO ENSURE ALL BRANCH CIRCUITS REACH THE NEW LOCATION OF PANEL 'A'. FIELD VERIFY.
- D3 REMOVE AND DISPOSE OF ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT WITHIN THE REMODELED AREA. REMOVE ALL EXISTING CONDUITS AND CABLING BACK TO NEAREST SOURCE.
- D5 REMOVE AND RETURN EXISTING DATA RACKS AND ACTIVE AND PASSIVE CORRESPONDING DATA EQUIPMENT, TO OWNER IT DEPARTMENT.
- D12 ALL EXISTING ELECTRICAL FIXTURES AND DEVICES IN BATHROOM ARE TO BE REMOVED AND DISPOSED OF.
- D21 EXISTING COMMUNICATION SYSTEM DEMARK LOCATION. ALL CONDUIT AND CABLING ENTERING THE BUILDING FOR THE DEMARK TO REMAIN AND BE REUSED.
- D22 EXISTING FIRE SPRINKLER RISER, EXISTING WATER FLOW INDICATORS, TAMPER SWITCHES, AND MONITOR MODULES TO REMAIN AND BE REUSED.
- P2 EXISTING ELECTRICAL PANEL TO REMAIN AND BE REUSED.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t 801-298-1366  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



CODE OFFICIAL STAMP



PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE, SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1180  
 www.envisioneng.com

ENV-2023-220

REVISIONS

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| ISSUED: | NO. | DATE     | DESCRIPTION |
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|         | 01  | 02/05/24 | PERMIT SET  |

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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
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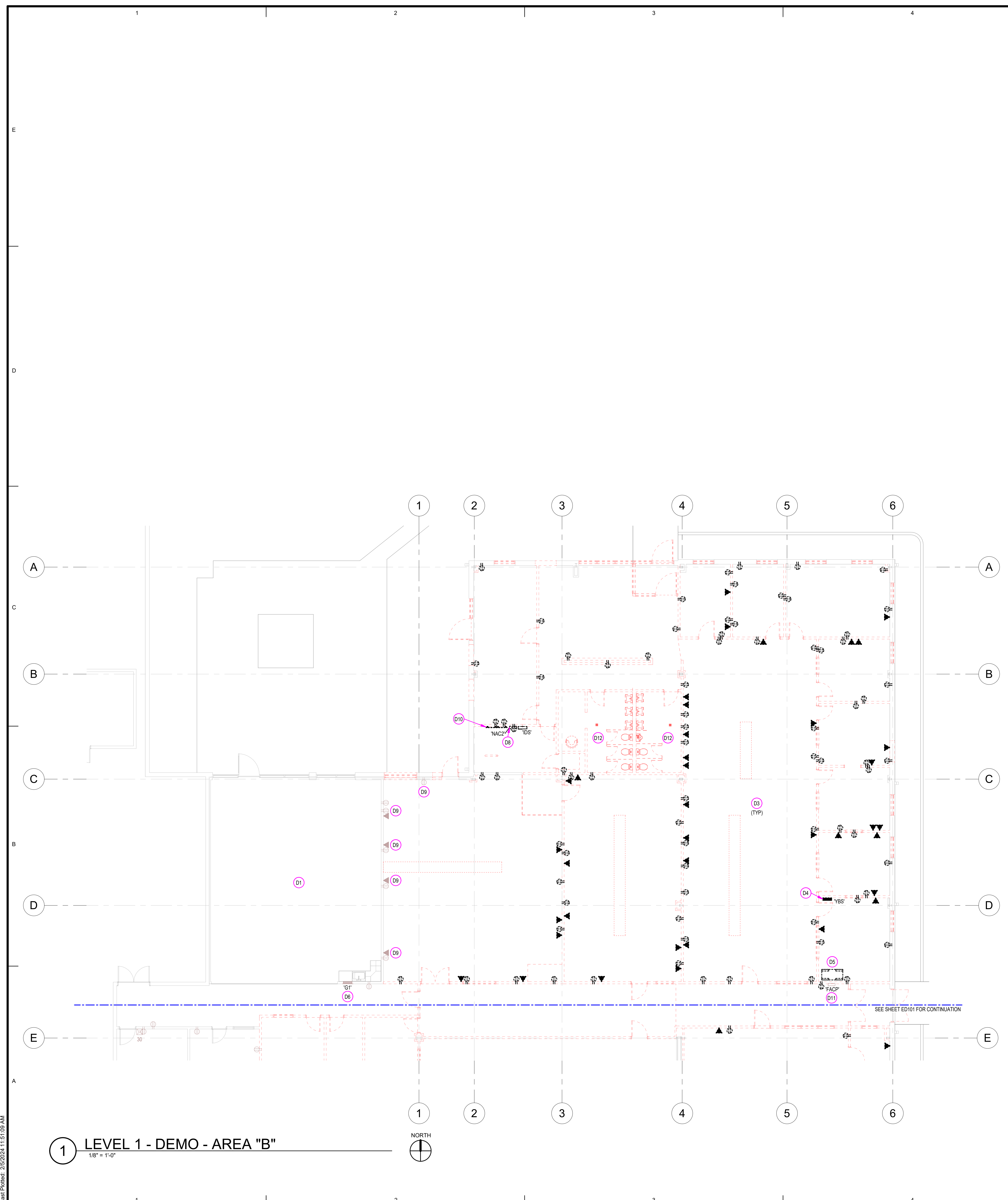
SHEET TITLE

**LEVEL 1 -  
 DEMOLITION -  
 AREA "A"**

SHEET NUMBER

**ED101**





**EXISTING CONDITIONS NOTE (TYPICAL):**

NOTE THAT DUE TO THE ABSENCE OF ACCURATE RECORD DRAWINGS FOR THE ORIGINAL BUILDING DESIGN, MANY DESIGN DECISIONS MADE FOR THIS PROJECT HAVE BEEN BASED ON ASSUMPTIONS AND VISUAL INSPECTIONS OF EXISTING SITE CONDITIONS BY THE DESIGN TEAM. CONSEQUENTLY, DISPARITIES BETWEEN ASSUMED AND ACTUAL EXISTING CONDITIONS MAY ARISE. IT IS IMPERATIVE THAT THE CONTRACTOR CAREFULLY VERIFIES ALL EXISTING CONDITIONS AND COORDINATES THEM WITH THE NEW WORK. IF THE EXISTING CONDITIONS ARE FOUND TO DEVIATE FROM THE ASSUMPTIONS MADE IN THE DESIGN, RESULTING IN CONFLICTS, THE CONTRACTOR IS REQUIRED TO COORDINATE THE VERIFIED SITE CONDITIONS AS WELL AS THE RESULTING CONFLICTS WITH THE ARCHITECT FOR RESOLUTION, BEFORE PROCEEDING WITH THE INSTALLATION OF NEW WORK.

**EXISTING CONCRETE MODIFICATIONS (TYPICAL):**

NOTE THAT WHEREVER EXISTING CONCRETE FLOOR SLABS ARE BEING SAWCUT/REMOVED OR OTHERWISE MODIFIED (WEATHER OR NOT SPECIFICALLY SHOWN ON PLANS), THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE AREAS WHERE SLAB MODIFICATIONS OCCUR BE X-RAY/RADAR SCANNED AS TO UNDERSTAND WHERE EXISTING UNDER SLAB UTILITIES OR OTHER POTENTIAL CONFLICTS MAY OCCUR. COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK AS REQD. TO MINIMIZE THE POTENTIAL OF DAMAGING EXISTING BUILDING SYSTEMS NOT SCHEDULED FOR DEMOLITION - PATCH/WALL SAWCUT AREAS PER D3/AE-55 - COORDINATE WITH MEP DRAWINGS.

- GENERAL DEMOLITION NOTES:**
- UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
    - DISCONNECT AND REMOVE ANYALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
    - RELOCATE, REWIRE, AND/OR RECONNECT ANYALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
    - LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
    - REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
    - EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
    - CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
    - DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
    - COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
    - FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
  - ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

- KEYED NOTES**
- THIS AREA IS NOT WITHIN THE SCOPE OF THIS PROJECT. EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE IS TO REMAIN AND BE REUSED.
  - REMOVE AND DISPOSE OF ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT WITHIN THE REMODELED AREA. REMOVE ALL EXISTING CONDUITS AND CABLING BACK TO NEAREST SOURCE.
  - REMOVE AND DISPOSE OF EXISTING ELECTRICAL PANEL. ALL BRANCH CIRCUITS WITHIN THE EXISTING REMODELED SPACE ARE TO BE DEMOLISHED COMPLETE. ALL BRANCH CIRCUITS OUTSIDE OF THE REMODELED SPACE THAT ARE PART OF THIS PANEL AND TO REMAIN ARE TO BE REROUTED TO NEW ELECTRICAL PANEL P2. CONTRACTOR IS RESPONSIBLE TO CAREFULLY PROTECT EXISTING CIRCUITS TO BE RELOCATED AND TRACE THEM TO CONFIRM EXISTING AND NEW ROUTING.
  - REMOVE AND RETURN EXISTING DATA RACKS AND ACTIVE AND PASSIVE CORRESPONDING DATA EQUIPMENT, TO OWNER IT DEPARTMENT.
  - EXISTING ELECTRICAL PANEL TO REMAIN AND BE REUSED.
  - FIRE ALARM "NACZ" PANEL IS TO BE REMOVED AND RELOCATED TO NEW ELECTRICAL ROOM 102 (SEE SHEET EP102). REROUTE ALL CONDUIT AND CABLING TO NEW LOCATION. IF NECESSARY, INSTALL WIRE GUTTER TO PROVIDE A SPLICE POINT AT THE END OF SHORTEST RUN OF THE NEW CONDUIT ROUTE TO ENSURE ALL BRANCH CIRCUITS REACH THE NEW THE LOCATION OF "NACZ" PANEL. FIELD VERIFY.
  - EXISTING ELECTRICAL DEVICES ARE TO REMAIN AND BE REUSED.
  - REMOVE AND DISPOSE OF EXISTING LOW VOLTAGE CABLING TERMINATION BLOCKS AND ACCESSIBLE TELEPHONE CABLES COMPLETE.
  - EXISTING FIRE ALARM CONTROL PANEL (FACP) TO REMAIN AND BE REUSED. CAREFULLY PROTECT FACP DURING CONSTRUCTION.
  - ALL EXISTING ELECTRICAL FIXTURES AND DEVICES IN BATHROOM ARE TO BE REMOVED AND DISPOSED OF.

ARCHITECTS INFORMATION

SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISION ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P (801) 534-1130  
F (801) 534-1180  
www.envisioneng.com

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| NO. | DATE     | DESCRIPTION |
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OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: MH  
CHECKED BY: SH  
DESIGNED BY: MH  
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SHEET TITLE

**LEVEL 1 -  
DEMOLITION -  
AREA "B"**

SHEET NUMBER

**ED102**





**GENERAL DEMOLITION NOTES:**

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
  - A. DISCONNECT AND REMOVE ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
  - B. RELOCATE, REWIRE, AND/OR RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
  - C. LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED. IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
  - D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
  - E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
  - F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
  - G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
  - H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
  - I. FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
2. ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

**KEYED NOTES**

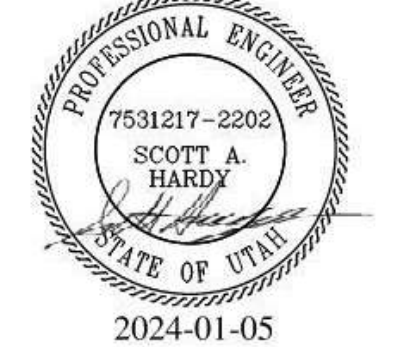
- D13 THIS AREA IS NOT WITHIN THE SCOPE OF THIS PROJECT. EXISTING LIGHT FIXTURES AND ASSOCIATED LIGHTING CONTROLS ARE TO REMAIN AND BE REUSED.
- D14 REMOVE AND DISPOSE OF ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THE REMODELED AREA UNLESS OTHERWISE SPECIFIED. REMOVE ALL EXISTING CONDUITS AND CABLING BACK TO NEAREST SOURCE. CONTRACTOR TO REMOVE AND DISASSEMBLE LIGHT FIXTURES. ALL BALLASTS AND INCANDESCENT BULBS TO BE SET ASIDE FOR THE STATES ABATEMENT CONTRACTOR REMOVAL. LIGHT HOUSING IS TO BE DISPOSED OF BY THE CONTRACTOR. ANY EXISTING TO REMAIN ELEMENTS THAT ARE CONFLICT WITH NEW INFRASTRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO MODIFY TO FIT WITHIN NEW INFRASTRUCTURE.
- D17 EXISTING EXTERIOR LIGHT FIXTURE TO REMAIN AND BE REUSED. REFER TO NEW LIGHTING PLAN FOR LIGHTING CONTROL UPDATES.

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



PROFESSIONAL ENGINEER  
 7531217-2200  
 SCOTT A. HARDY  
 STATE OF UTAH  
 2024-01-05

CODE OFFICIAL STAMP



REVIEWED FOR  
 CODE COMPLIANCE  
 03/26/2024  
 REVIEWED BY: [Signature]  
 CONSTRUCTION AND  
 INSPECTION

PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENGINEERING



**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1080  
 www.envisioneng.com

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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
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SHEET TITLE

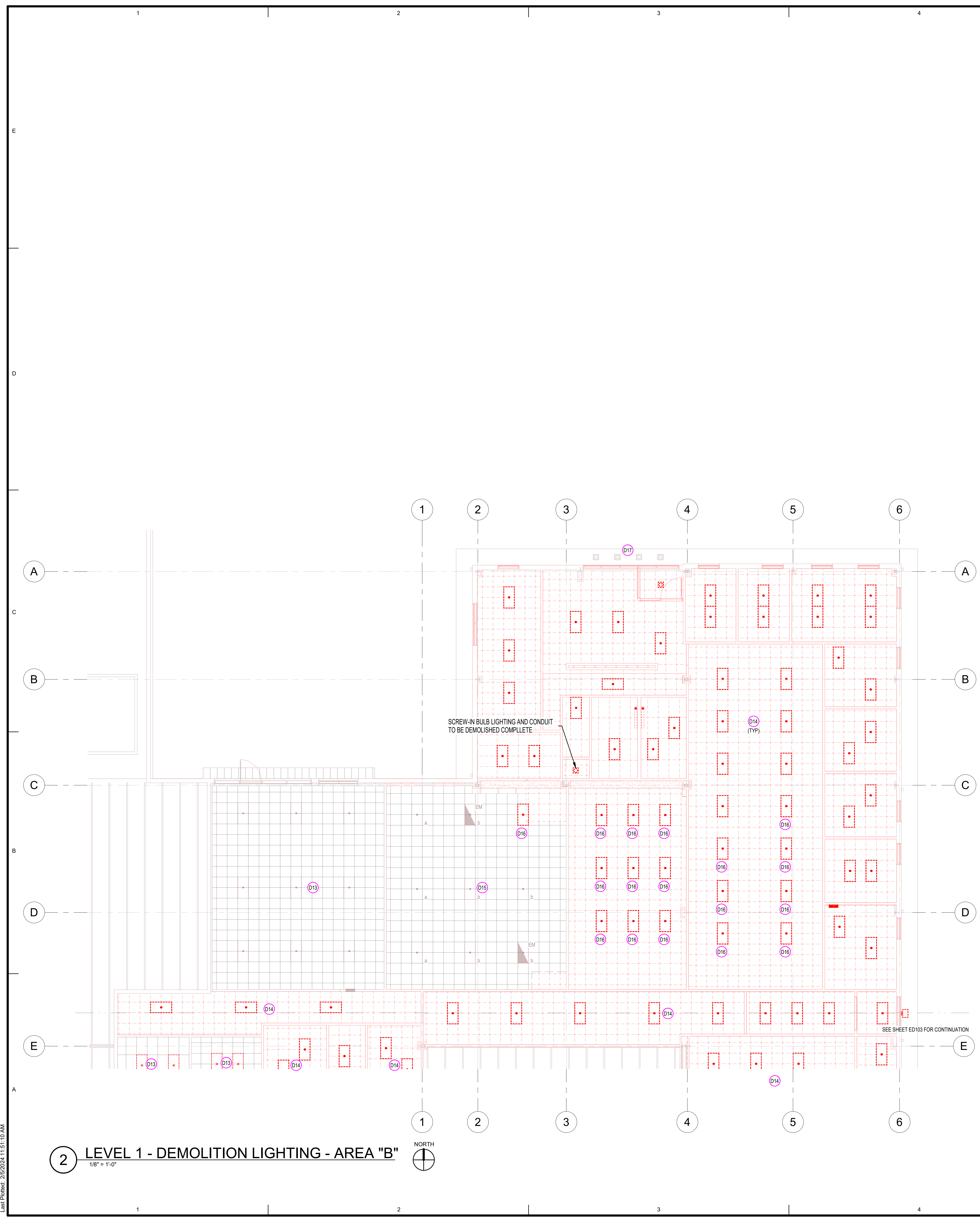
**LEVEL 1 -  
 DEMOLITION  
 LIGHTING - AREA  
 "A"**

SHEET NUMBER

**ED103**

Last Pooled: 2/26/2024 11:51:10 AM





**GENERAL DEMOLITION NOTES:**

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
  - A. DISCONNECT AND REMOVE ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
  - B. RELOCATE, REWIRE, AND/OR RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
  - C. LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
  - D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
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  - H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
  - I. FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
2. ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

**KEYED NOTES**

- D13 THIS AREA IS NOT WITHIN THE SCOPE OF THIS PROJECT. EXISTING LIGHT FIXTURES AND ASSOCIATED LIGHTING CONTROLS ARE TO REMAIN AND BE REUSED.
- D14 REMOVE AND DISPOSE OF ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THE REMODELED AREA UNLESS OTHERWISE SPECIFIED. REMOVE ALL EXISTING CONDUITS AND CABLING BACK TO NEAREST SOURCE. CONTRACTOR TO REMOVE AND DISASSEMBLE LIGHT FIXTURES. ALL BALLASTS AND INCANDESCENT BULBS TO BE SET ASIDE FOR THE STATES ABATEMENT CONTRACTOR REMOVAL. LIGHT HOUSING IS TO BE DISPOSED OF BY THE CONTRACTOR. ANY EXISTING TO REMAIN ELEMENTS THAT ARE CONFLICT WITH NEW INFRASTRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO MODIFY TO FIT WITHIN NEW INFRASTRUCTURE.
- D15 UNLESS OTHERWISE NOTED, LIGHT FIXTURES AND ASSOCIATED LIGHTING CONTROLS IN THIS SPACE ARE TO REMAIN AND BE REUSED.
- D16 CAREFULLY REMOVE AND PROTECT EXISTING LIGHT FIXTURE. FIXTURE TO BE REUSED IN NEW LAYOUT. REFER TO NEW LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- D17 EXISTING EXTERIOR LIGHT FIXTURE TO REMAIN AND BE REUSED. REFER TO NEW LIGHTING PLAN FOR LIGHTING CONTROL UPDATES.

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801-298-1369  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P. (801) 534-1130  
 F. (801) 534-1180  
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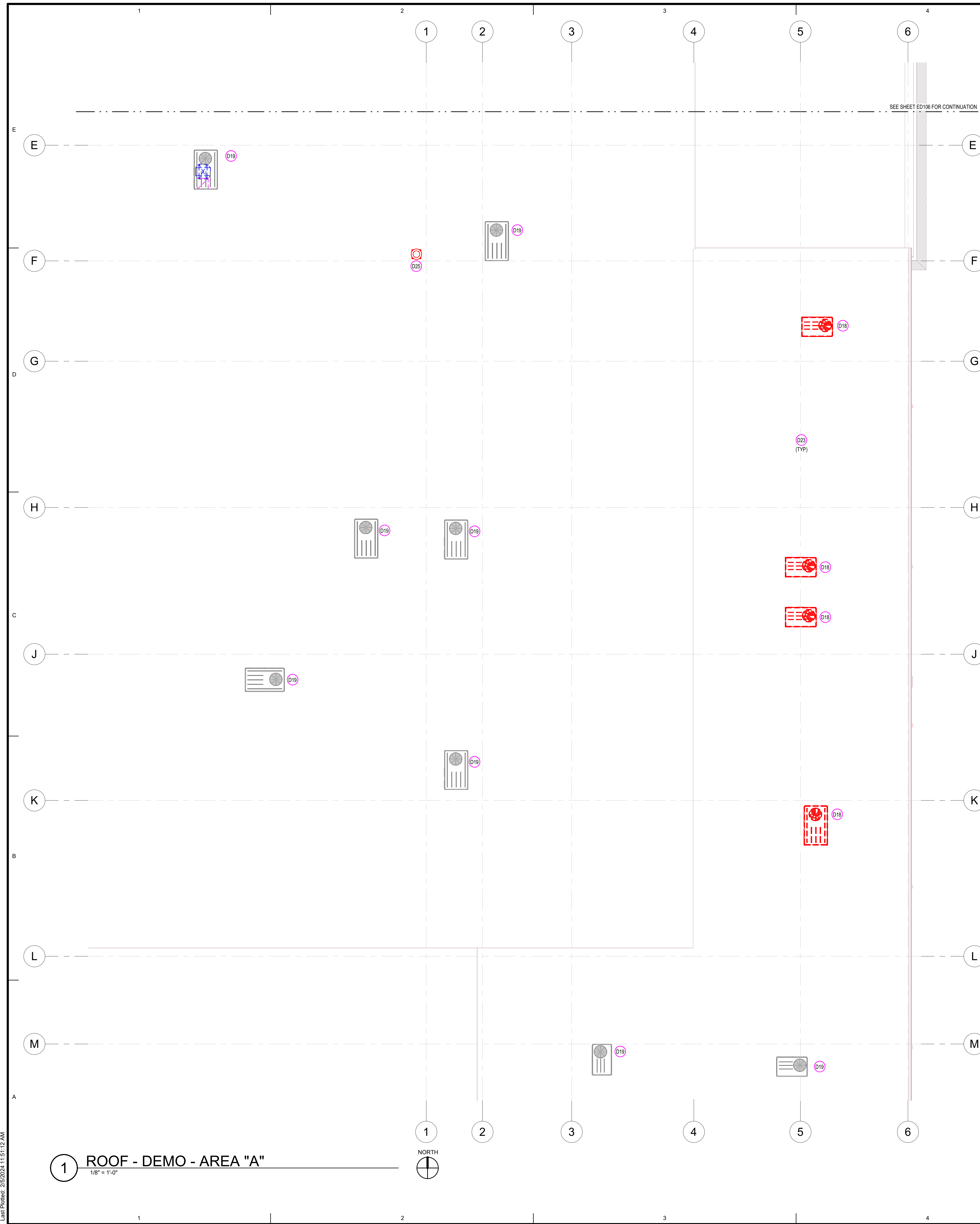
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| ISSUED:          |                       |
| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
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SHEET TITLE:  
**LEVEL 1 -  
 DEMOLITION  
 LIGHTING - AREA  
 "B"**

SHEET NUMBER:  
**ED104**

Last Pooled: 2/5/2024 11:51:10 AM





SEE SHEET ED106 FOR CONTINUATION

**GENERAL DEMOLITION NOTES:**

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
  - A. DISCONNECT AND REMOVE ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
  - B. RELOCATE, REWIRE, AND/OR RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
  - C. LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
  - D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
  - E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
  - F. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
  - G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
  - H. COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
  - I. FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
2. ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

**KEYED NOTES** (F)

- D18 EXISTING UNIT TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CABLE IS TO BE REMOVED AND DISPOSED OF TO SOURCE. REMOVE AND DISPOSE OF EXISTING DISCONNECT SAFETY SWITCH. REFER TO NEW ROOF PLAN FOR ADDITIONAL INFORMATION.
- D19 EXISTING ROOF TOP UNIT ELECTRICAL INFRASTRUCTURE TO REMAIN AND BE REUSED.
- D23 REMOVE AND DISPOSE OF ALL EXISTING MAINTENANCE RECEPTACLES, CONDUITS, AND CABLING THAT ARE ATTACHED TO DEMOLISHED ROOFTOP UNITS.
- D25 EXISTING UNIT TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CABLE IS TO BE REUSED FOR NEW EXHAUST FAN. REFER TO NEW ROOF PLAN FOR ADDITIONAL INFORMATION.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801-298-1366  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



SCOTT A. HARDY  
 7531217-2201  
 STATE OF UTAH  
 2024-01-05

CODE OFFICIAL STAMP



REVIEWED FOR  
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 03/26/2024  
 BRIDGERLAND TECHNICAL COLLEGE  
 TRANSSCHILL BUILDING REMODEL

PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENGINEERING



**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE, SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1180  
 www.envisioneng.com

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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
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SHEET TITLE

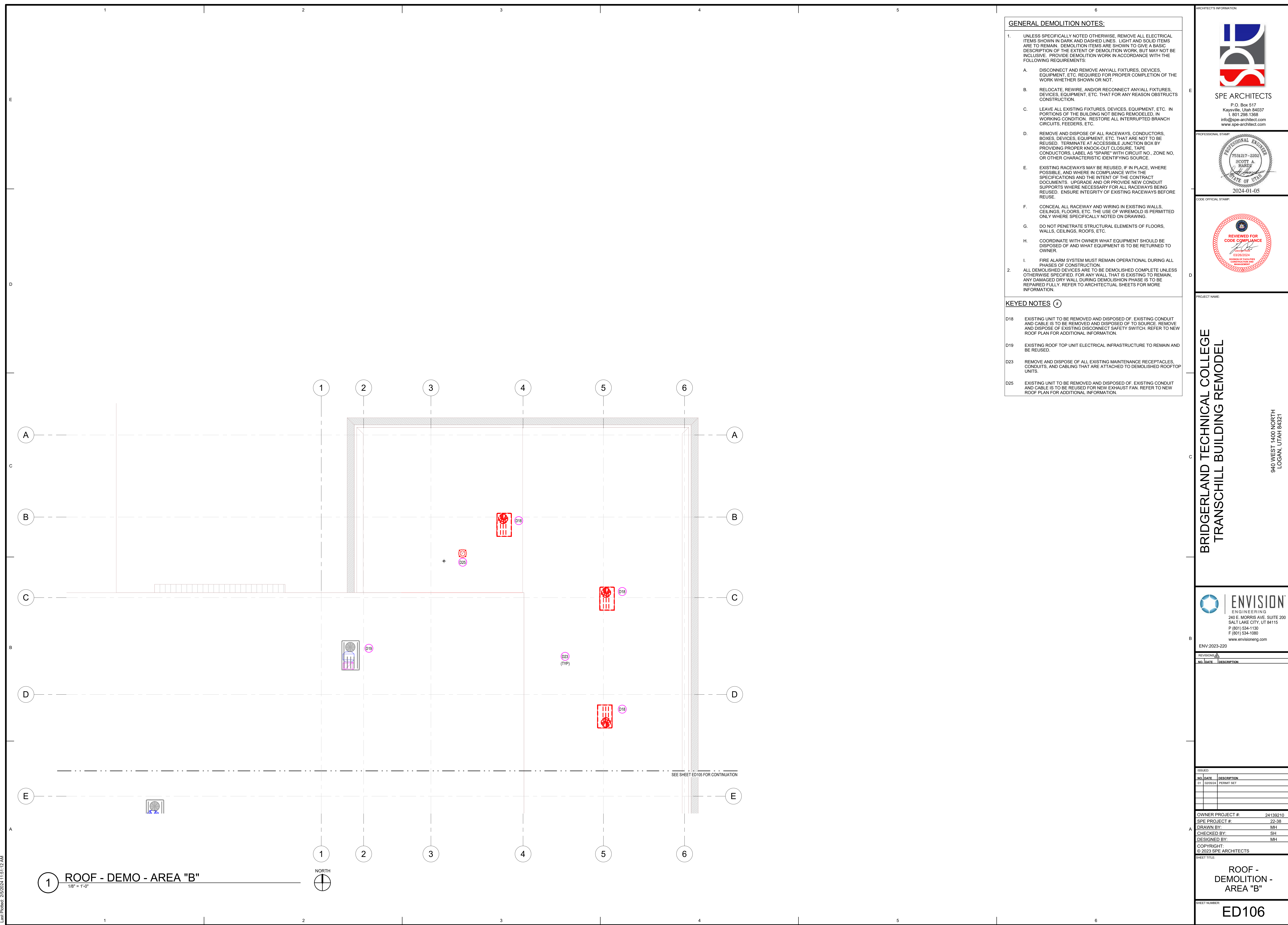
**ROOF -  
 DEMOLITION -  
 AREA "A"**

SHEET NUMBER

**ED105**

Last Pooled: 2/5/2024 11:51:12 AM





**GENERAL DEMOLITION NOTES:**

- UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
  - DISCONNECT AND REMOVE ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.
  - RELOCATE, REWIRE, AND/OR RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
  - LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
  - REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
  - EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
  - CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.
  - DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
  - COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.
  - FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
- ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

**KEYED NOTES**

- D18 EXISTING UNIT TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CABLE IS TO BE REMOVED AND DISPOSED OF TO SOURCE. REMOVE AND DISPOSE OF EXISTING DISCONNECT SAFETY SWITCH. REFER TO NEW ROOF PLAN FOR ADDITIONAL INFORMATION.
- D19 EXISTING ROOF TOP UNIT ELECTRICAL INFRASTRUCTURE TO REMAIN AND BE REUSED.
- D23 REMOVE AND DISPOSE OF ALL EXISTING MAINTENANCE RECEPTACLES, CONDUITS, AND CABLING THAT ARE ATTACHED TO DEMOLISHED ROOFTOP UNITS.
- D25 EXISTING UNIT TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CABLE IS TO BE REUSED FOR NEW EXHAUST FAN. REFER TO NEW ROOF PLAN FOR ADDITIONAL INFORMATION.

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801-298-1360  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP  
  
 PROFESSIONAL ENGINEER  
 7531217-2200  
 SCOTT A. HARDY  
 STATE OF UTAH  
 2024-01-05

CODE OFFICIAL STAMP  
  
 REVIEWED FOR  
 CODE COMPLIANCE  
 03/26/2024  
 UTAH DEPARTMENT OF CONSTRUCTION AND  
 OCCUPANCY

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENVISION  
 ENGINEERING  
 240 E. MORRIS AVE, SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1180  
 www.envisioneng.com

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 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
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SHEET TITLE:  
**ROOF -  
 DEMOLITION -  
 AREA "B"**

SHEET NUMBER:  
**ED106**

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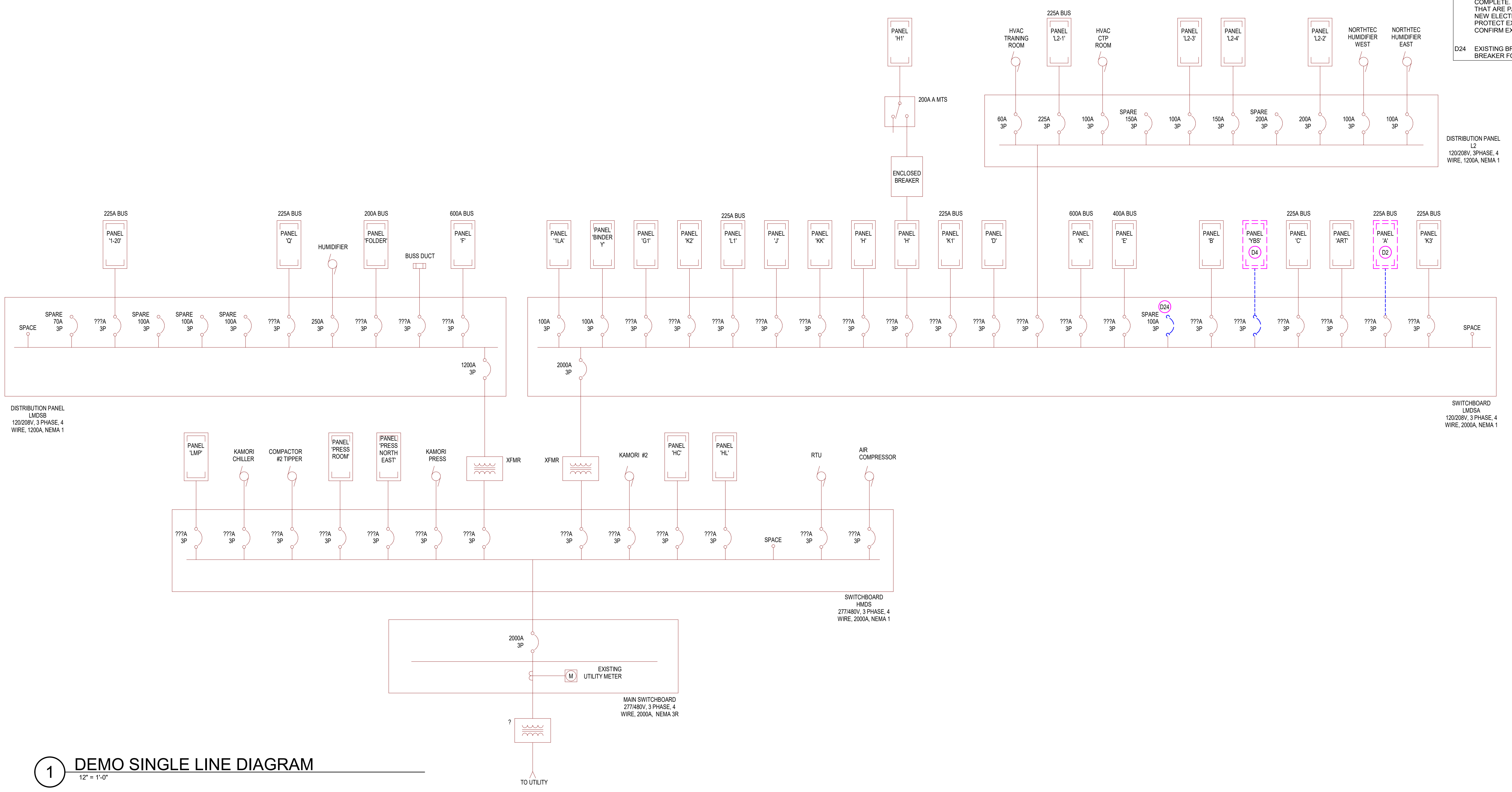
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| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
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**GENERAL DEMOLITION NOTES:**

1. UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
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  - B. RELOCATE, REWIRE, AND/OR RECONNECT ANY ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
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  - D. REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE. TAP CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO. OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.
  - E. EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE.
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  - G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
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  - I. FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
2. ALL DEMOLISHED DEVICES ARE TO BE DEMOLISHED COMPLETE UNLESS OTHERWISE SPECIFIED. FOR ANY WALL THAT IS EXISTING TO REMAIN, ANY DAMAGED DRY WALL DURING DEMOLITION PHASE IS TO BE REPAIRED FULLY. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.

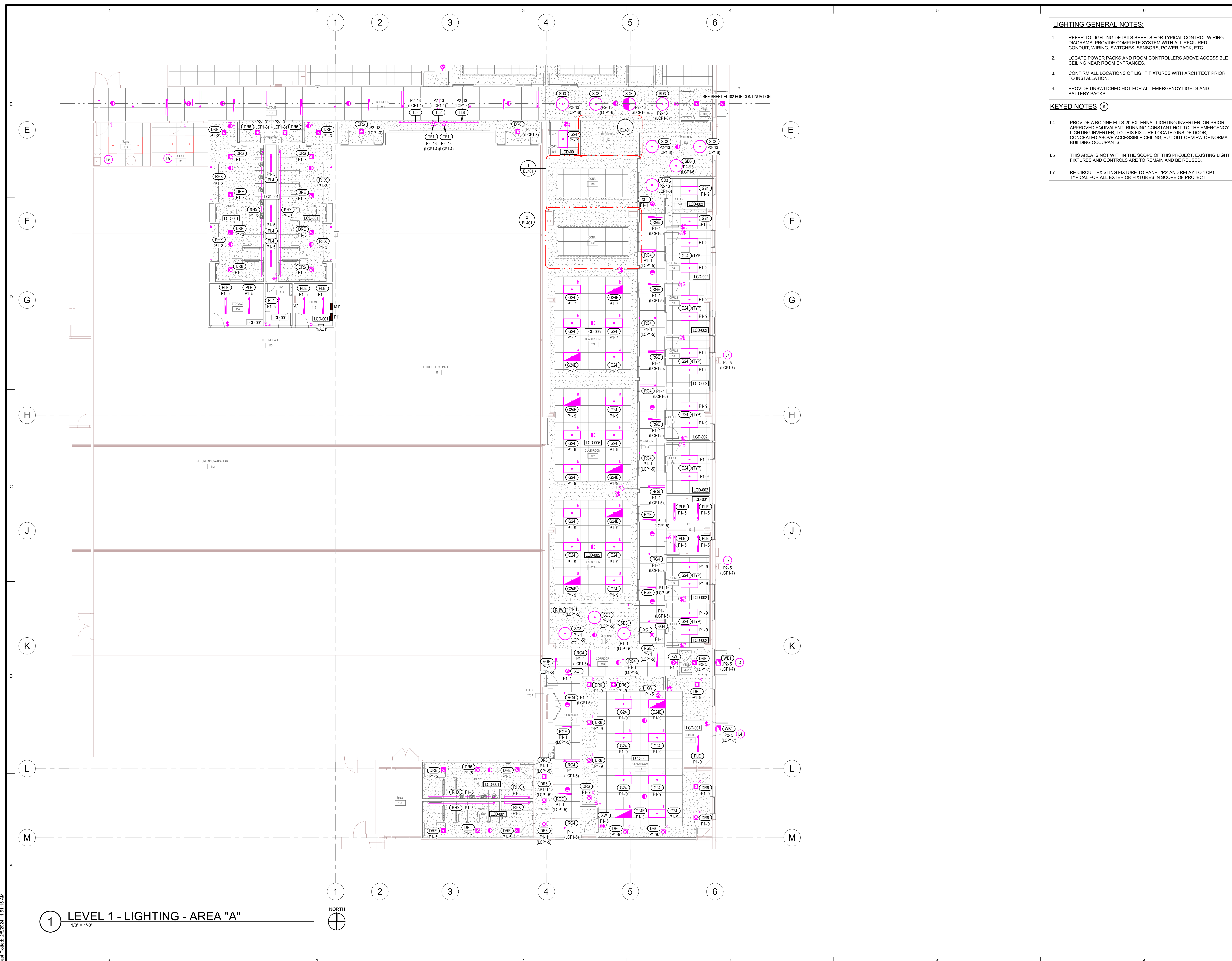
**KEYED NOTES**

- D2 PANELBOARD 'A' TO BE REMOVED AND RELOCATED TO NEW ELECTRICAL ROOM 114. REUSE AND REROUTE ALL CONDUIT AND CABLE TO NEW LOCATION. IF NECESSARY, INSTALL WIRE GUTTER TO PROVIDE A SPLICE POINT AT THE END OF SHORTEST RUN OF THE NEW CONDUIT ROUTE TO ENSURE ALL BRANCH CIRCUITS REACH THE NEW LOCATION OF PANEL 'A'. FIELD VERIFY.
- D4 REMOVE AND DISPOSE OF EXISTING ELECTRICAL PANEL. ALL BRANCH CIRCUITS WITHIN THE EXISTING REMODELED SPACE ARE TO BE DEMOLISHED COMPLETE. ALL BRANCH CIRCUITS OUTSIDE OF THE REMODELED SPACE THAT ARE PART OF THIS PANEL AND TO REMAIN ARE TO BE REROUTED TO NEW ELECTRICAL PANEL P2. CONTRACTOR IS RESPONSIBLE TO CAREFULLY PROTECT EXISTING CIRCUITS TO BE RELOCATED AND TRACE THEM TO CONFIRM EXISTING AND NEW ROUTING.
- D24 EXISTING BREAKER IS TO BE REMOVED AND REPLACED WITH A LARGER BREAKER FOR NEW PANEL. SEE SHEET EP701 FOR MORE INFORMATION.

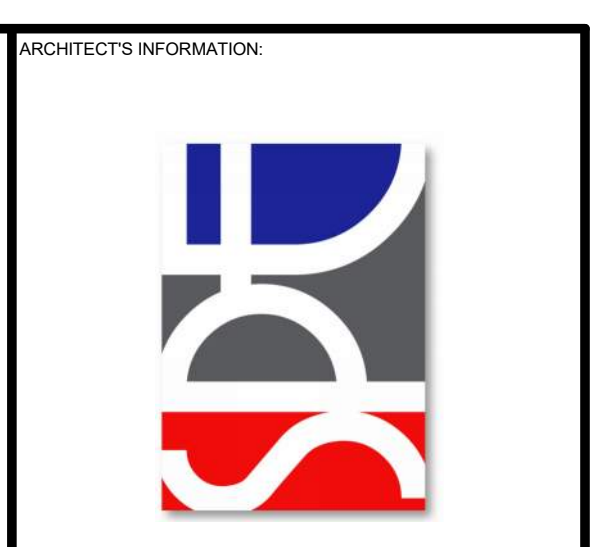


**1 DEMO SINGLE LINE DIAGRAM**  
 12" = 1'-0"

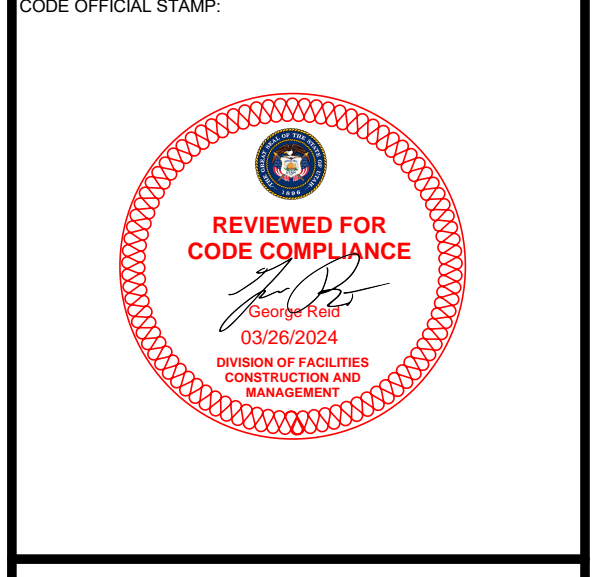




- LIGHTING GENERAL NOTES:**
- REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
  - LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
  - CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
  - PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND BATTERY PACKS.
- KEYED NOTES**
- PROVIDE A BODINE ELI-S-20 EXTERNAL LIGHTING INVERTER, OR PRIOR APPROVED EQUIVALENT, RUNNING CONSTANT HOT TO THE EMERGENCY LIGHTING INVERTER. TO THIS FIXTURE LOCATED INSIDE DOOR CONCEALED ABOVE ACCESSIBLE CEILING, BUT OUT OF VIEW OF NORMAL BUILDING OCCUPANTS.
  - THIS AREA IS NOT WITHIN THE SCOPE OF THIS PROJECT. EXISTING LIGHT FIXTURES AND CONTROLS ARE TO REMAIN AND BE REUSED.
  - RE-CIRCUIT EXISTING FIXTURE TO PANEL 'P2' AND RELAY TO LCP1'. TYPICAL FOR ALL EXTERIOR FIXTURES IN SCOPE OF PROJECT.



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kayville, Utah 84037  
 T 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com



PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321



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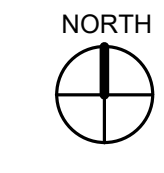
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| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
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**LEVEL 1 - LIGHTING - AREA "A"**

**EL101**

**1 LEVEL 1 - LIGHTING - AREA "A"**  
 1/8" = 1'-0"



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**LIGHTING GENERAL NOTES:**

- REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
- LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
- CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND BATTERY PACKS.

**KEYED NOTES**

L4 PROVIDE A BODINE ELI-S-20 EXTERNAL LIGHTING INVERTER, OR PRIOR APPROVED EQUIVALENT. RUNNING CONSTANT HOT TO THE EMERGENCY LIGHTING INVERTER. TO THIS FIXTURE LOCATED INSIDE DOOR CONCEALED ABOVE ACCESSIBLE CEILING, BUT OUT OF VIEW OF NORMAL BUILDING OCCUPANTS.

L9 USE THE (16) SAVED 2X4 GRID FIXTURES FROM THE DEMOLITION PHASE OF PROJECT IN THIS SPACE. ENSURE FIXTURES ARE CLEANED AND IN PROPER CONDITION TO BE REUSED.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP



PROFESSIONAL ENGINEER  
7531217-2200  
SCOTT A. HARDY  
STATE OF UTAH  
2024-01-05

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PROJECT NAME:

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TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISION  
ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P (801) 534-1190  
F (801) 534-1080  
www.envisioneng.com

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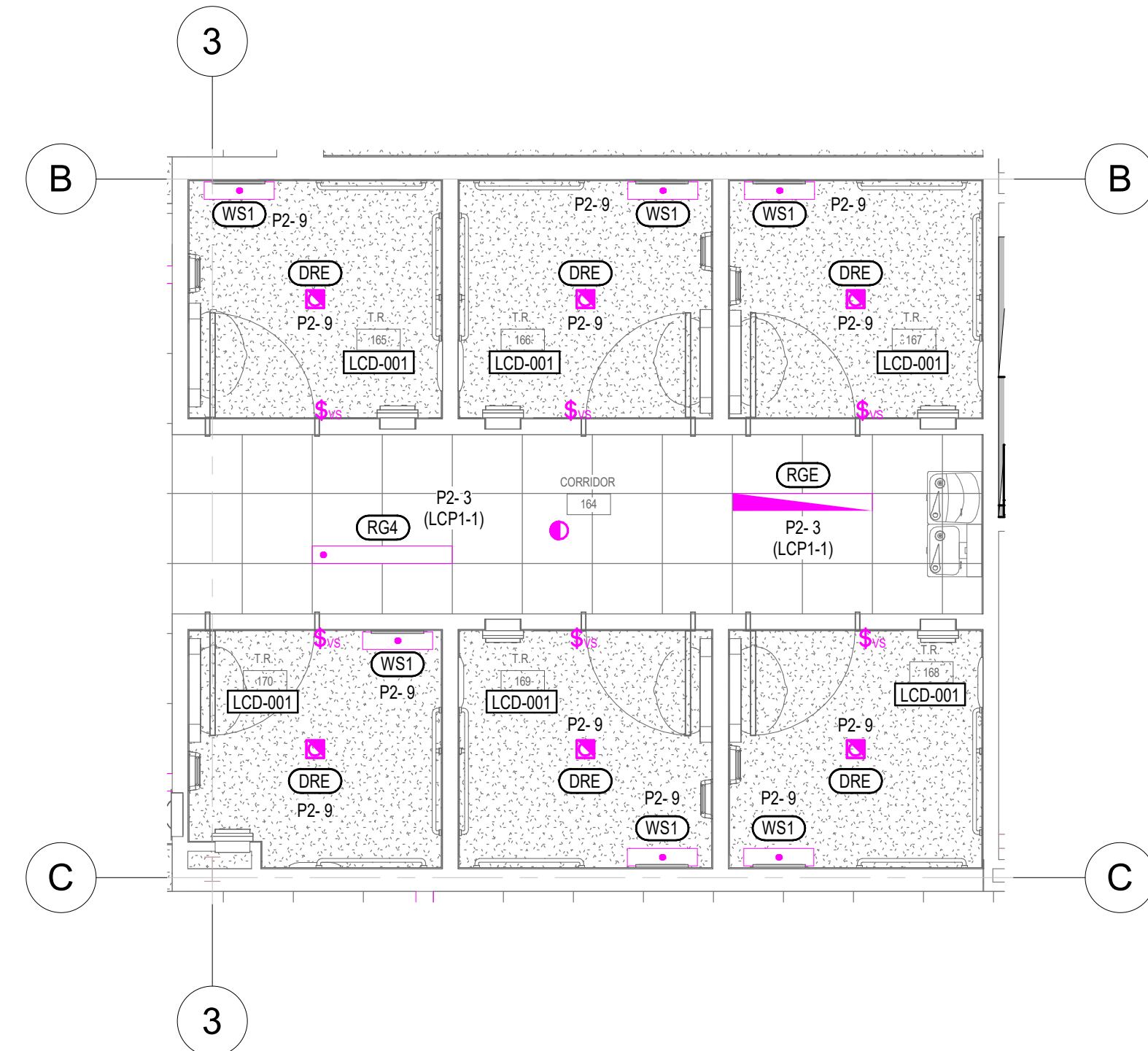
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SPE PROJECT #: 22-38  
DRAWN BY: MH  
CHECKED BY: SH  
DESIGNED BY: MH  
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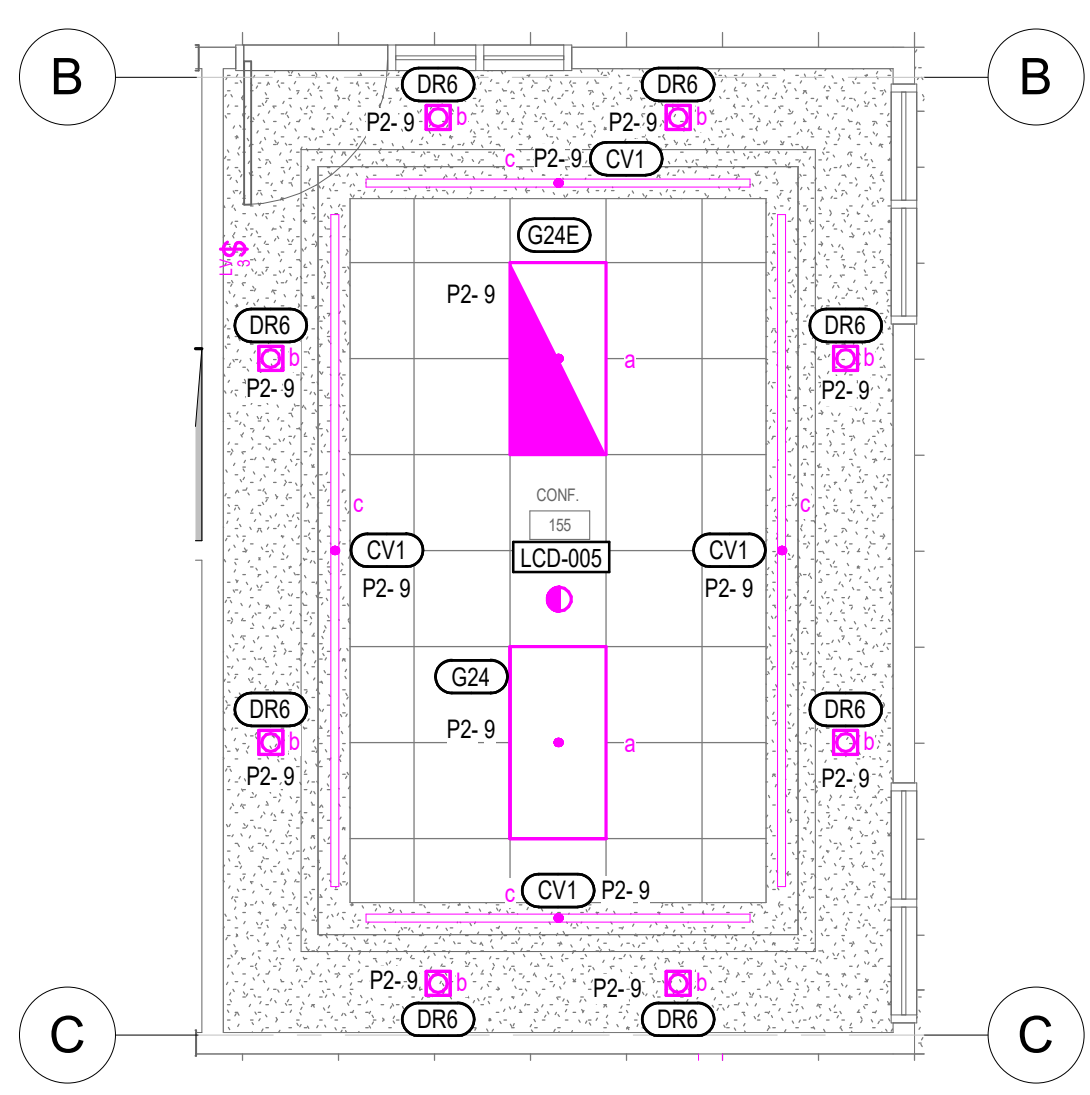
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LIGHTING**

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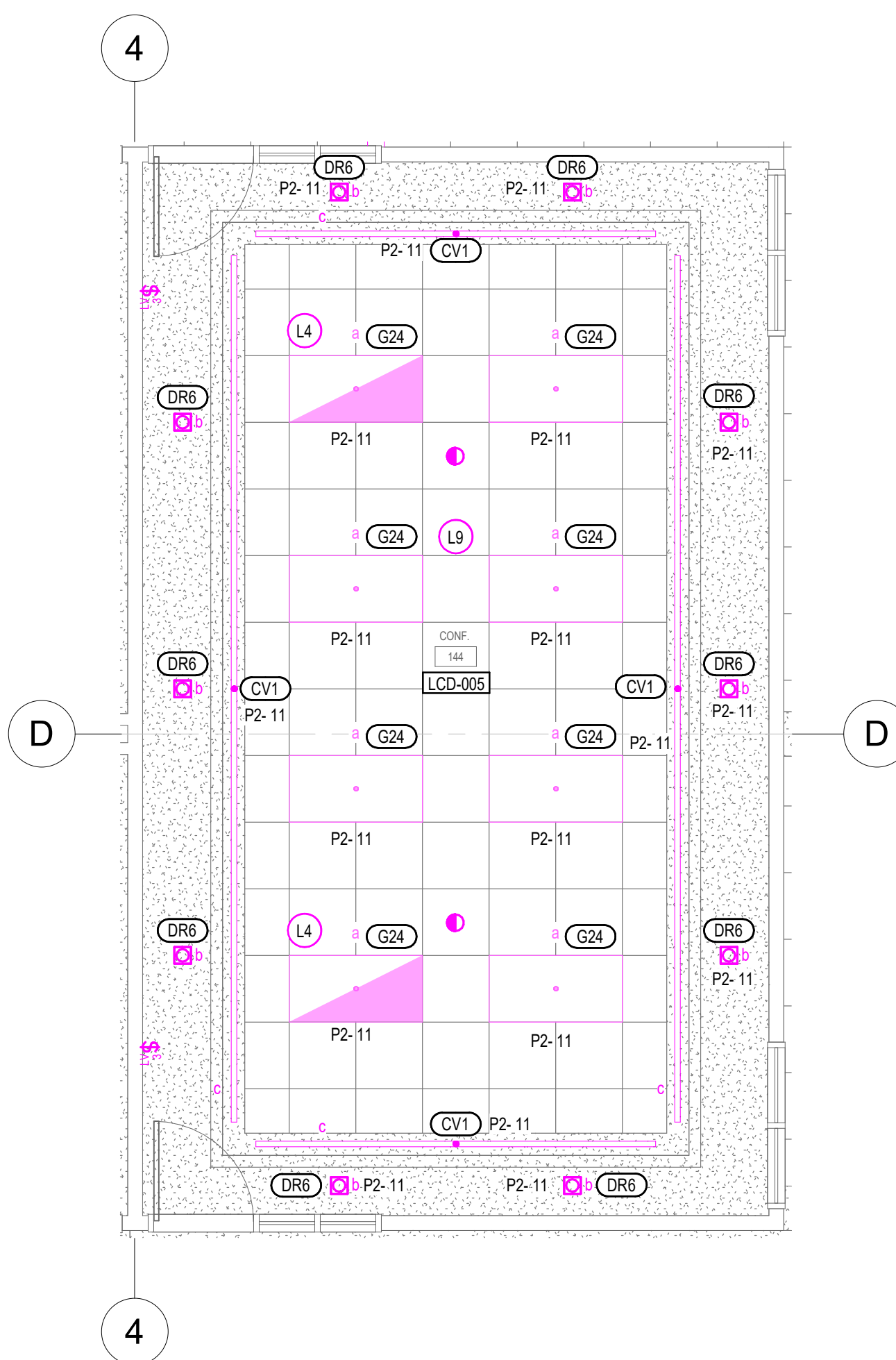
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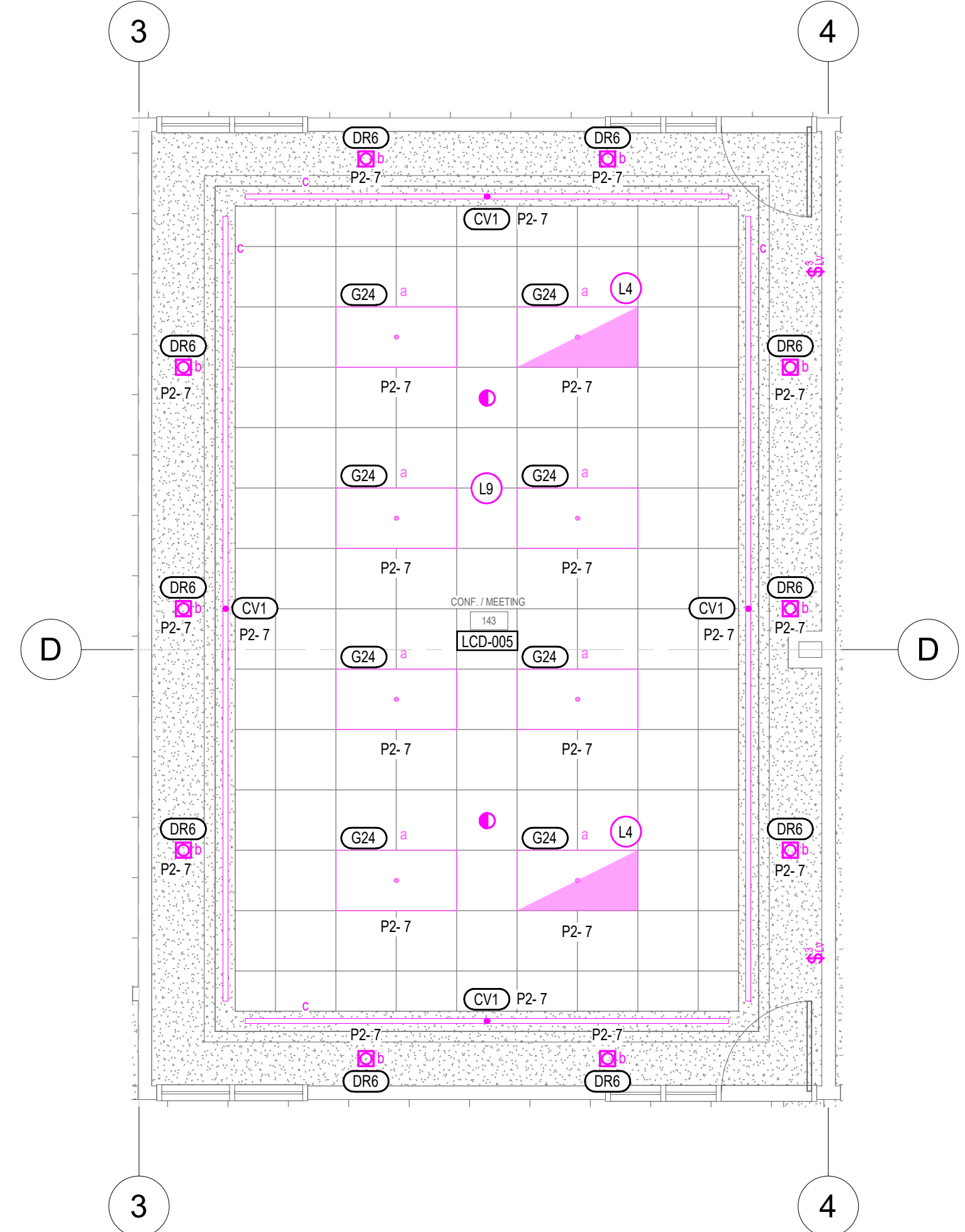
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1/4" = 1'-0"



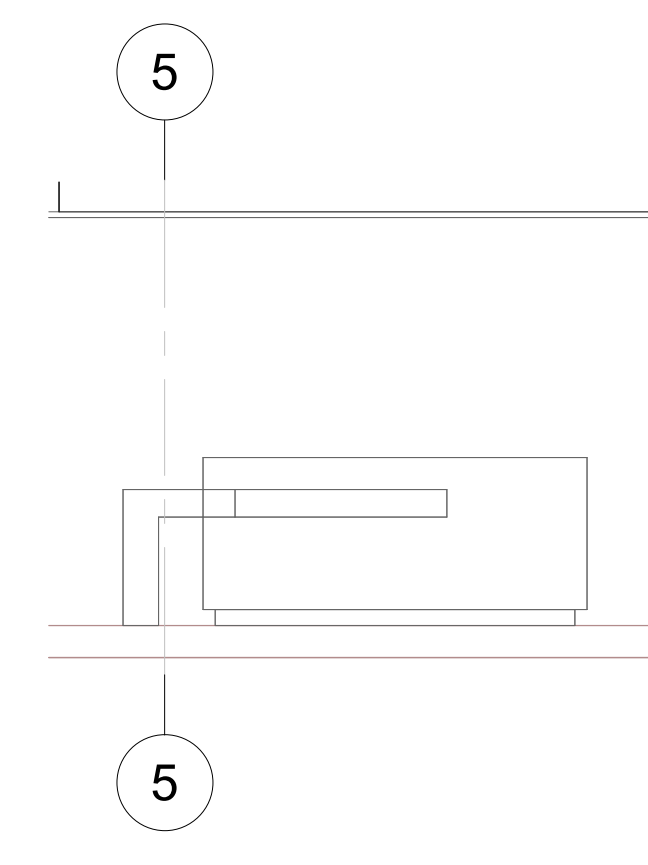
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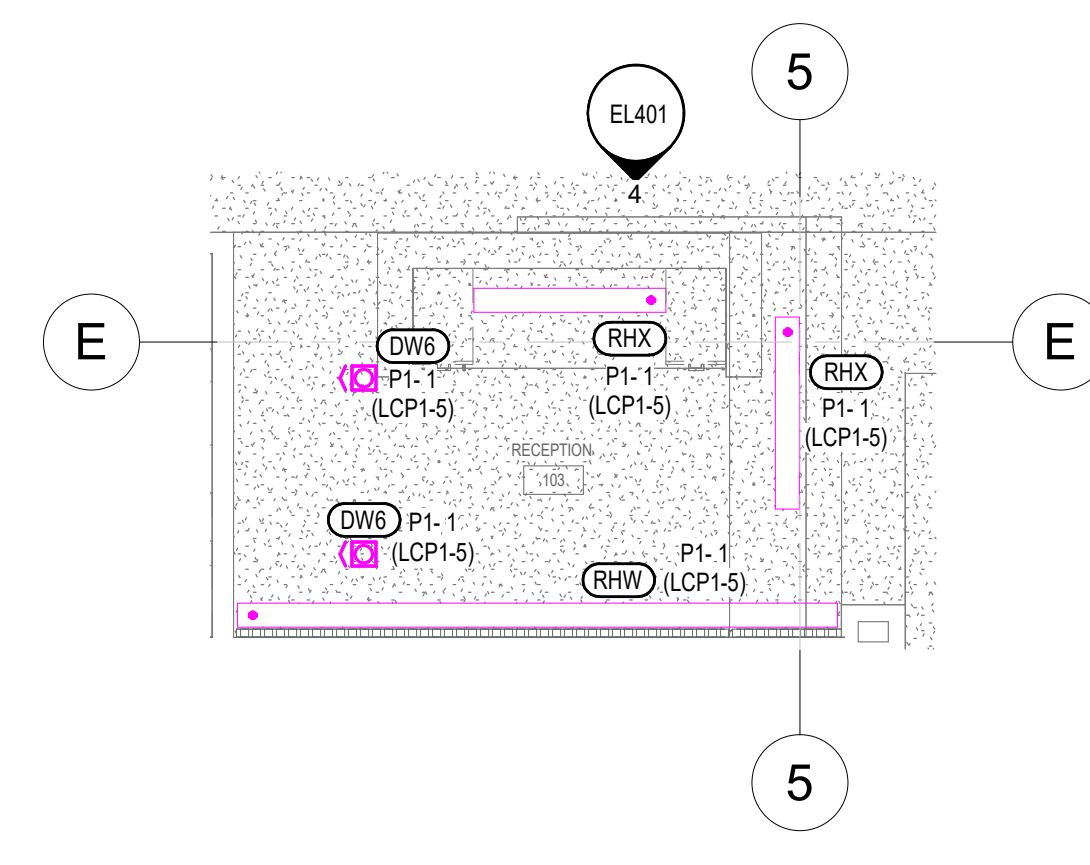
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1/4" = 1'-0"



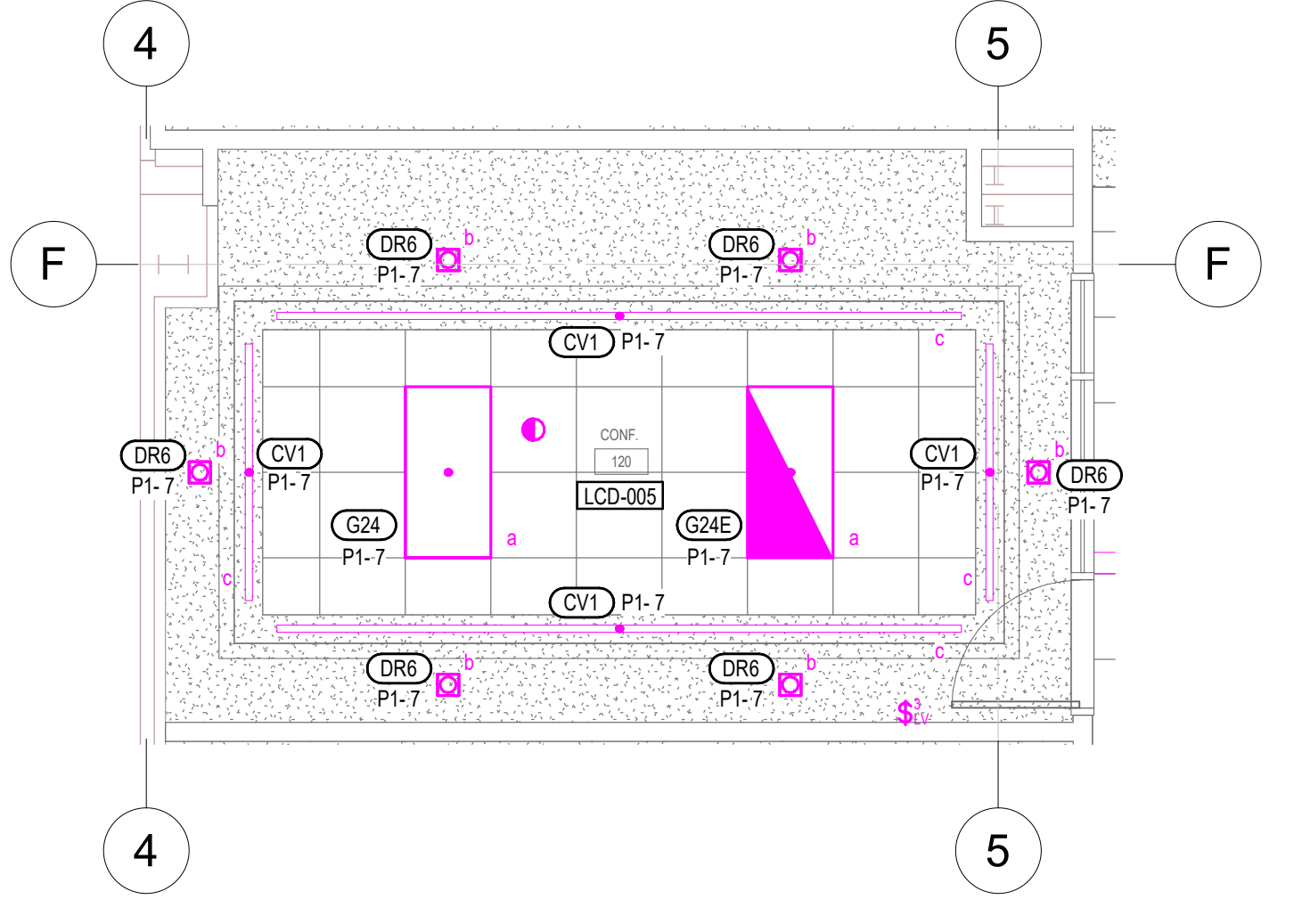
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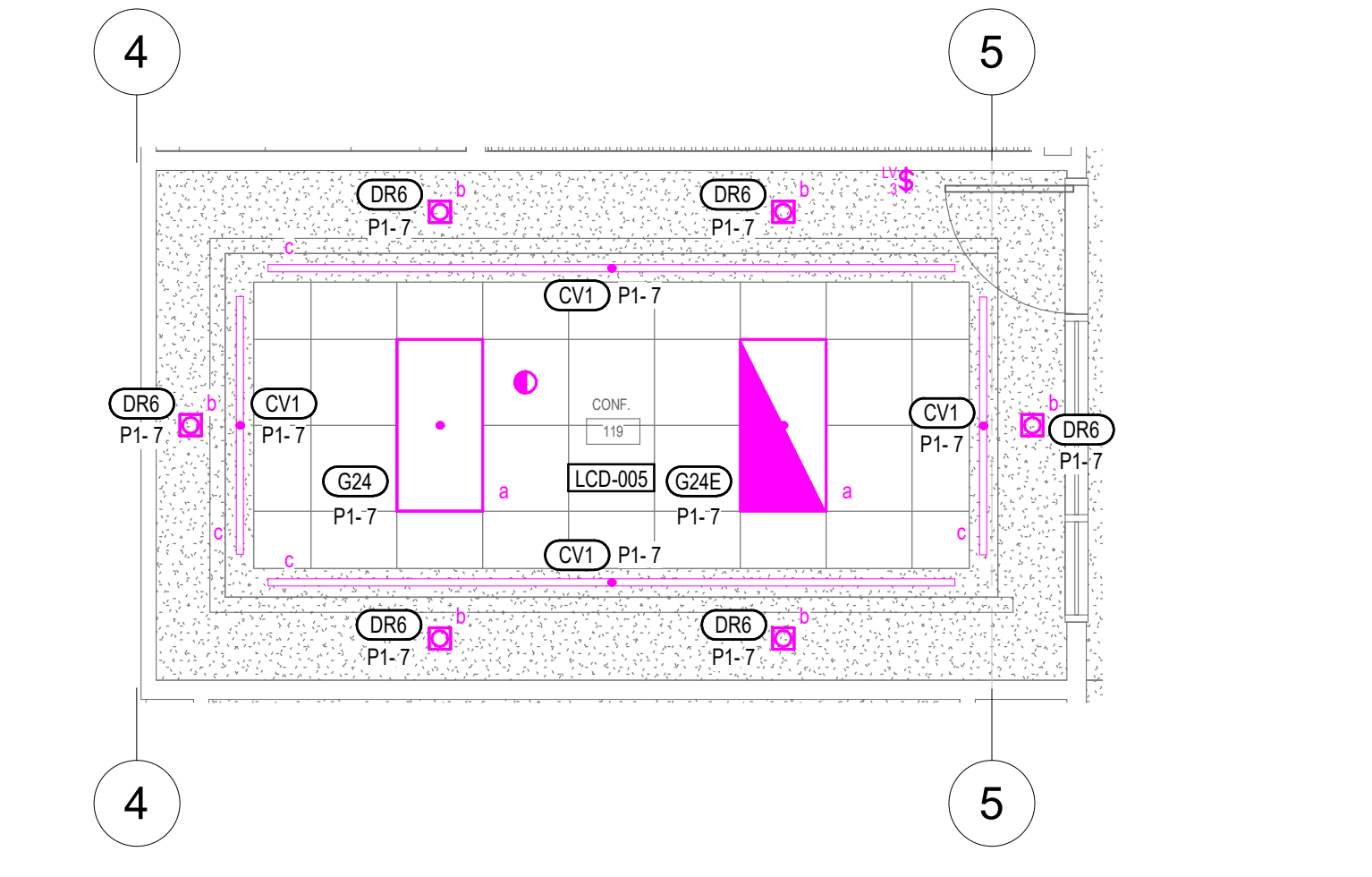
**4 RECEPTION 103 ELEVATION**  
1/4" = 1'-0"



**3 ENLARGED RECEPTION 103**  
1/4" = 1'-0"



**2 ENLARGED CONFERENCE ROOM 120**  
1/4" = 1'-0"

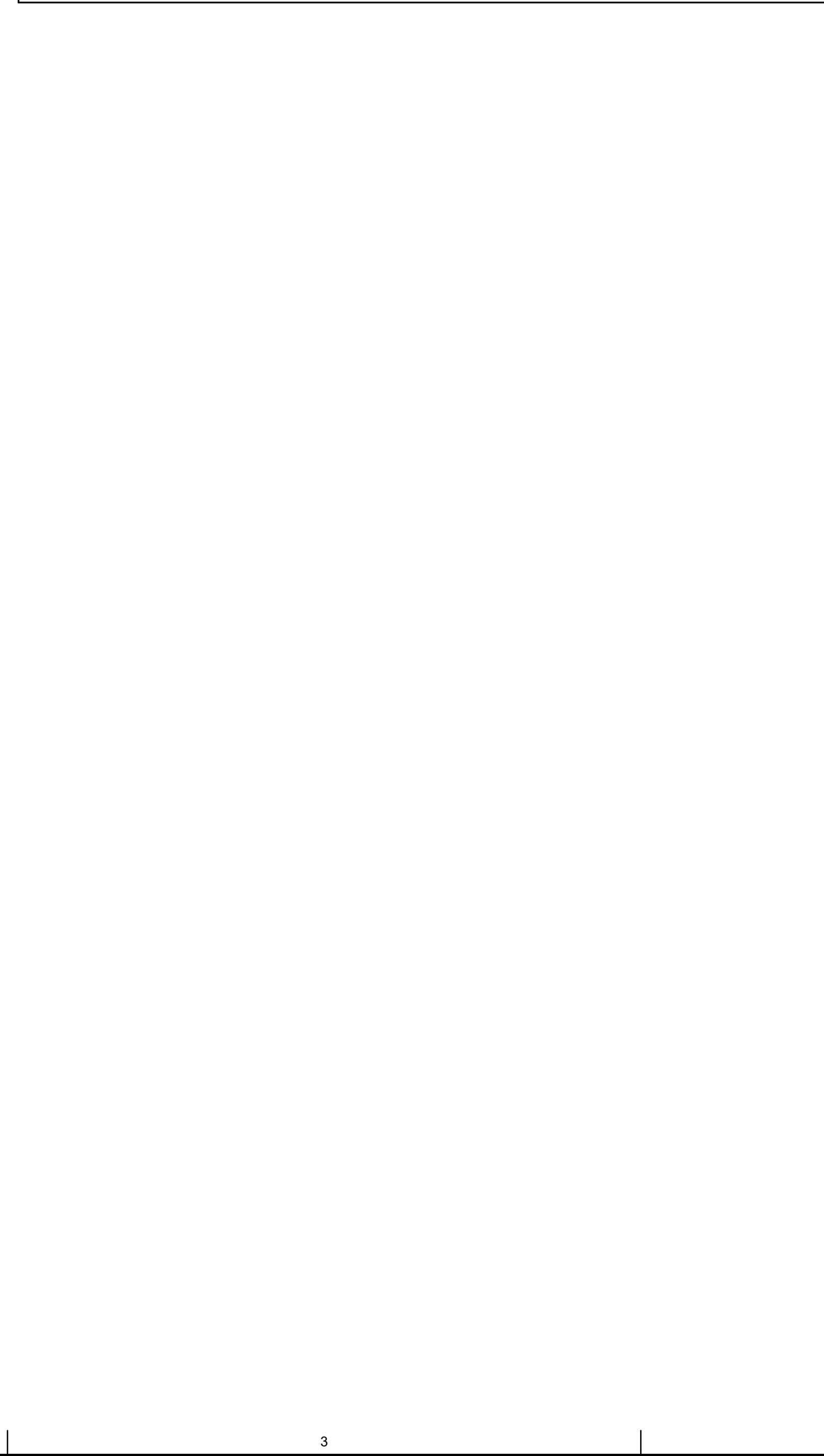
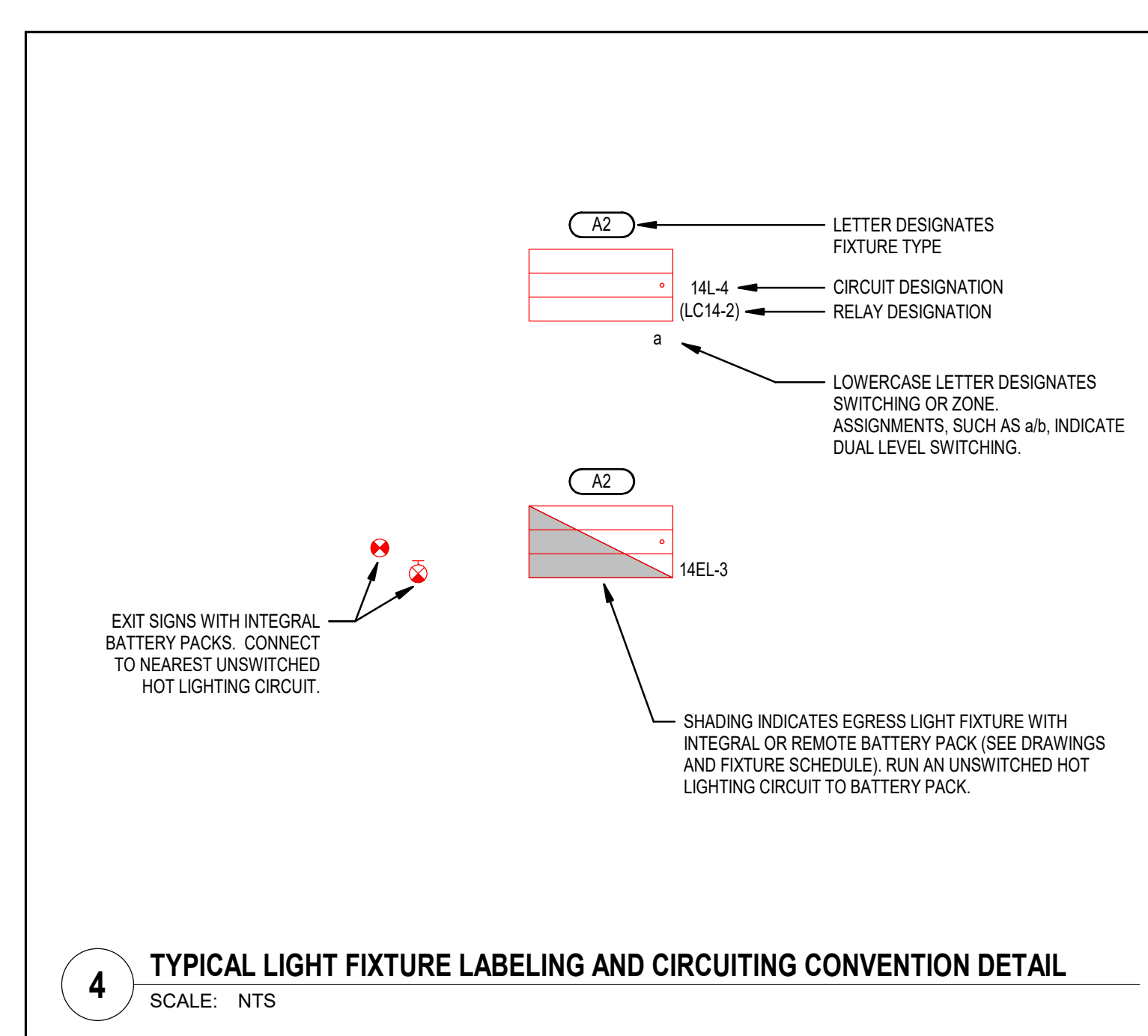
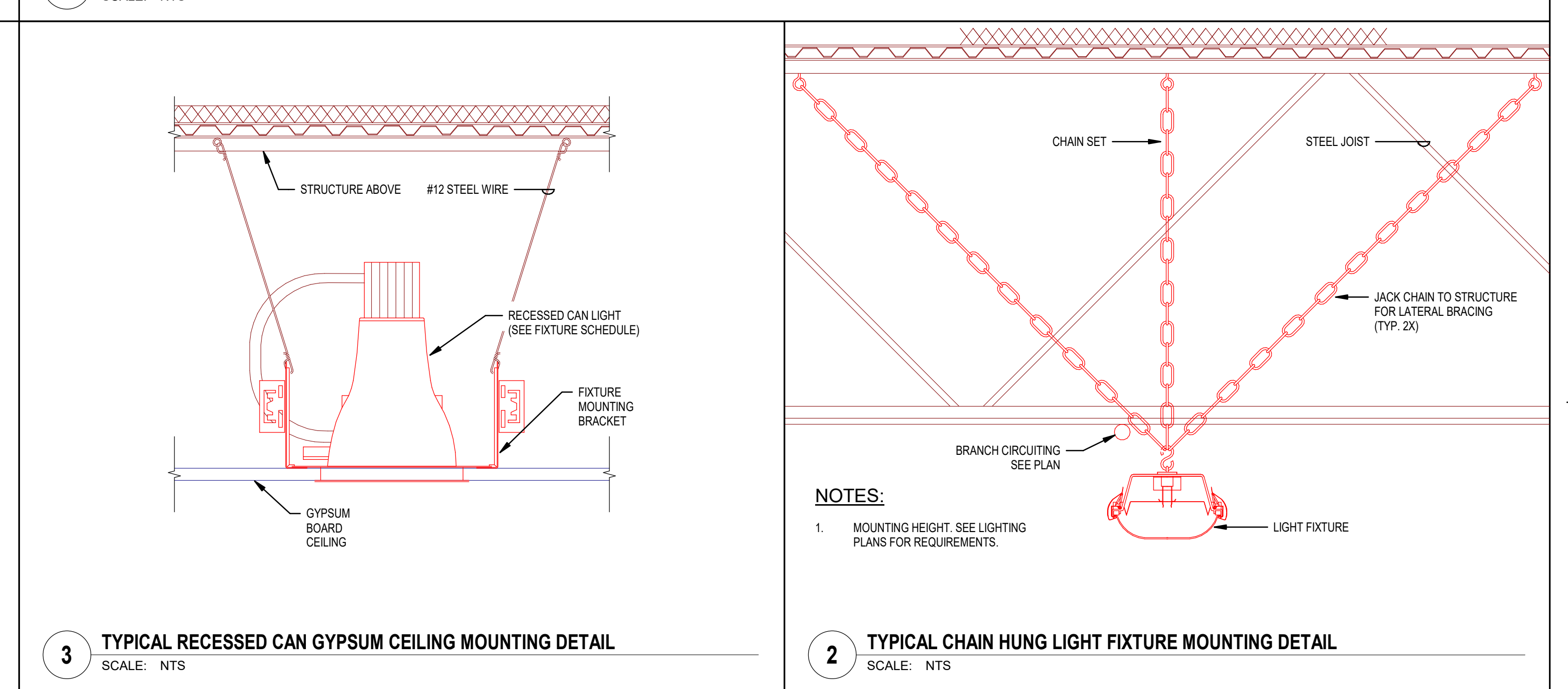
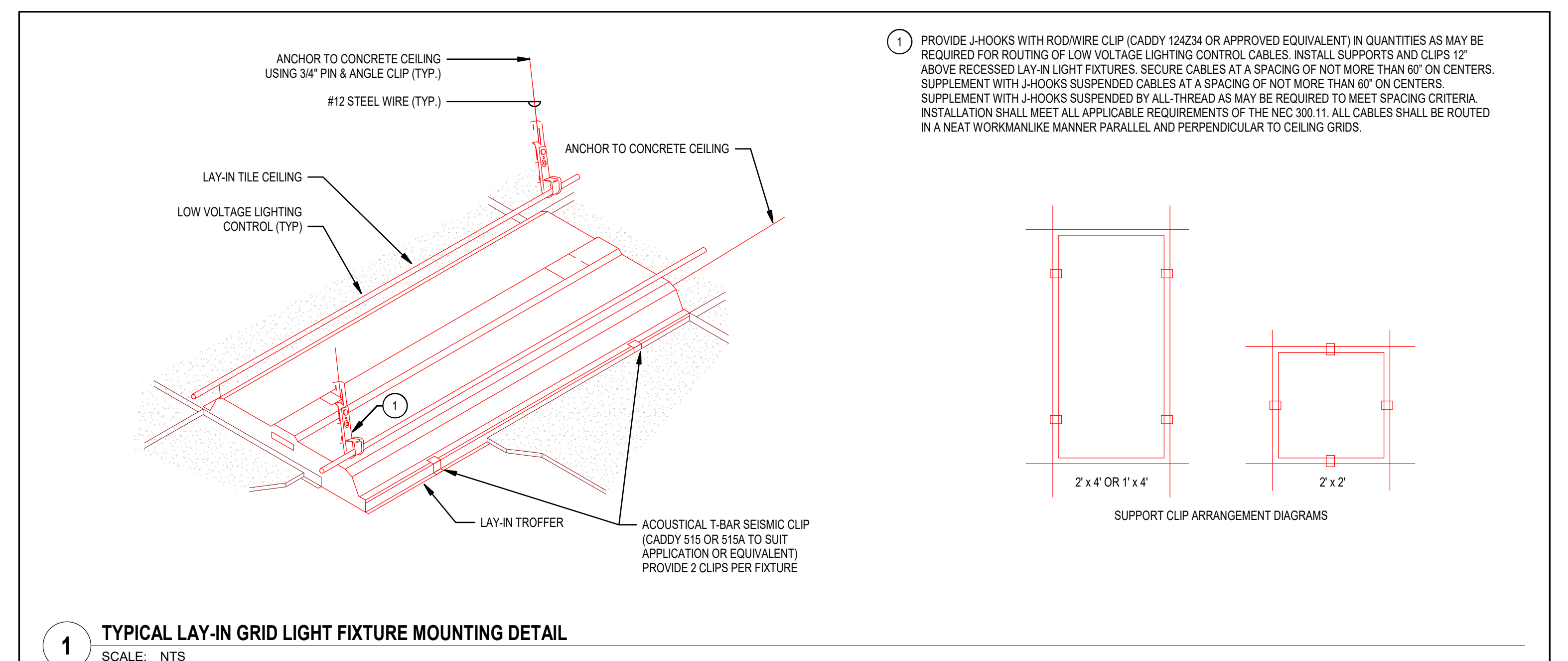


**1 ENLARGED CONFERENCE ROOM 119**  
1/4" = 1'-0"



| NO. | DATE     | DESCRIPTION |
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| 01  | 02/05/24 | PERMIT SET  |
|     |          |             |
|     |          |             |
|     |          |             |

|                  |                       |
|------------------|-----------------------|
| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
| COPYRIGHT:       | © 2023 SPE ARCHITECTS |





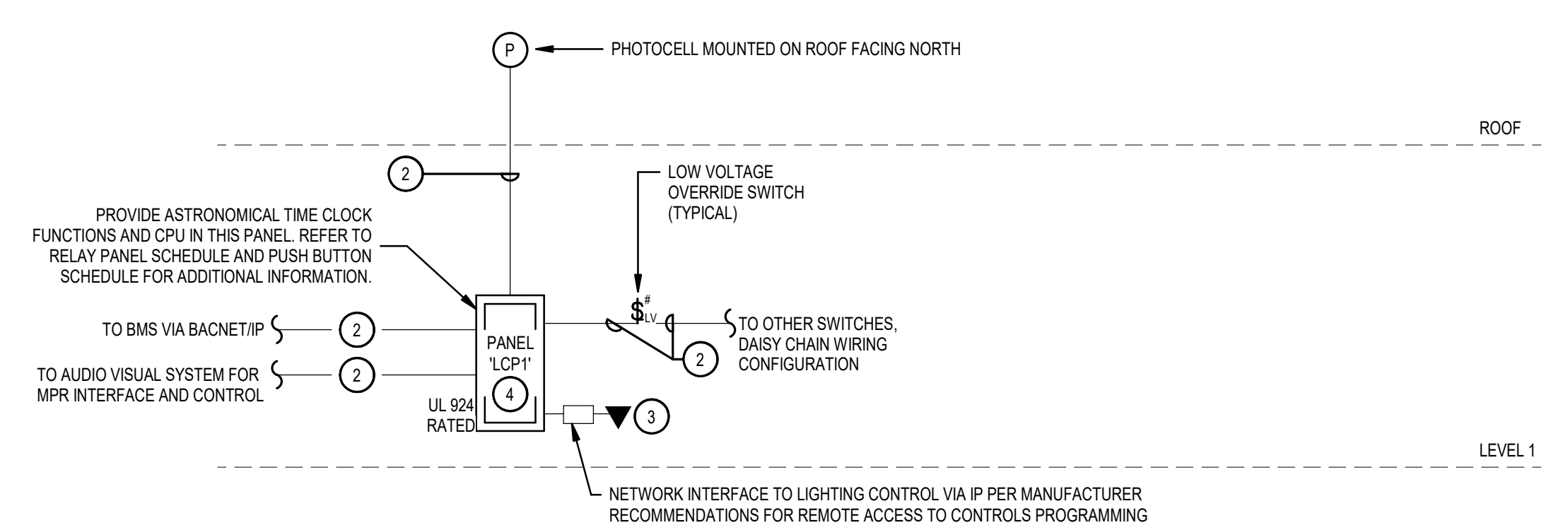
| LIGHTING WIRING DIAGRAMS |  |                          |   |
|--------------------------|--|--------------------------|---|
| SYMBOL                   | DESCRIPTION  | MOUNTING                 | REMARKS   |
|                          | LIGHT SWITCH   | +48"                     |   |
|                          | LOW VOLTAGE LIGHT SWITCH   | +48"                     |   |
|                          | WALL MOUNT GRAPHIC TOUCH PAD CONTROLLER                                      | +48"                     |   |
|                          | OCCUPANCY SENSOR OR VACANCY SENSOR (AS NOTED ON PLANS)                       | CEILING                  |   |
|                          | DIGITAL DAYLIGHT SENSOR  | CEILING                  |   |
|                          | NORMAL POWER LIGHTING LOAD   | CEILING                  | "Y" LOWER CASE LETTER SPECIFIES ZONE  |
|                          | EMERGENCY POWER LIGHTING LOAD  | CEILING                  | "Y" LOWER CASE LETTER SPECIFIES ZONE  |
|                          | RP- RELAY PACK<br>RP-D: DIMMING RELAY PACK<br>LC: RECEPTACLE LOAD CONTROLLER | ABOVE ACCESSIBLE CEILING | RELAYS MAY BE COMBINED IN ROOM CONTROLLER OR POWER PACKS.   |
|                          | ER- EMERGENCY RELAY PACK<br>ER-D: EMERGENCY DIMMING RELAY PACK               | ABOVE ACCESSIBLE CEILING | RELAYS MAY BE COMBINED IN ROOM CONTROLLER OR POWER PACKS. MUST BE UL 824 RATED FOR EMERGENCY LOADS. |
|                          | 3/4" WITH LIGHTING BRANCH CIRCUIT WIRING                                     |                          |   |
|                          | 3/4" WITH 0-10V DIMMING WIRING   |                          |   |
|                          | 3/4" WITH CAT 5 CABLING  |                          |   |

**GENERAL NOTES:**

- MANUFACTURER CERTIFIED TECHNICIAN SHALL PERFORM ALL ONSITE LIGHTING CONTROL SYSTEM PROGRAMMING AND COMMISSIONING.
- LIGHTING CONTROL SUBMITTALS SHALL BE PREPARED BY MANUFACTURER THROUGH MANUFACTURER PROJECT ENGINEERING SERVICE.
- CONTRACTOR SHALL SUBMIT COMPLETION DOCUMENTATION ONCE STARTUP IS COMPLETED.
- WHERE CABLE IS ACCESSIBLE FREE AIR IS ACCEPTABLE.

**KEYED NOTES:**

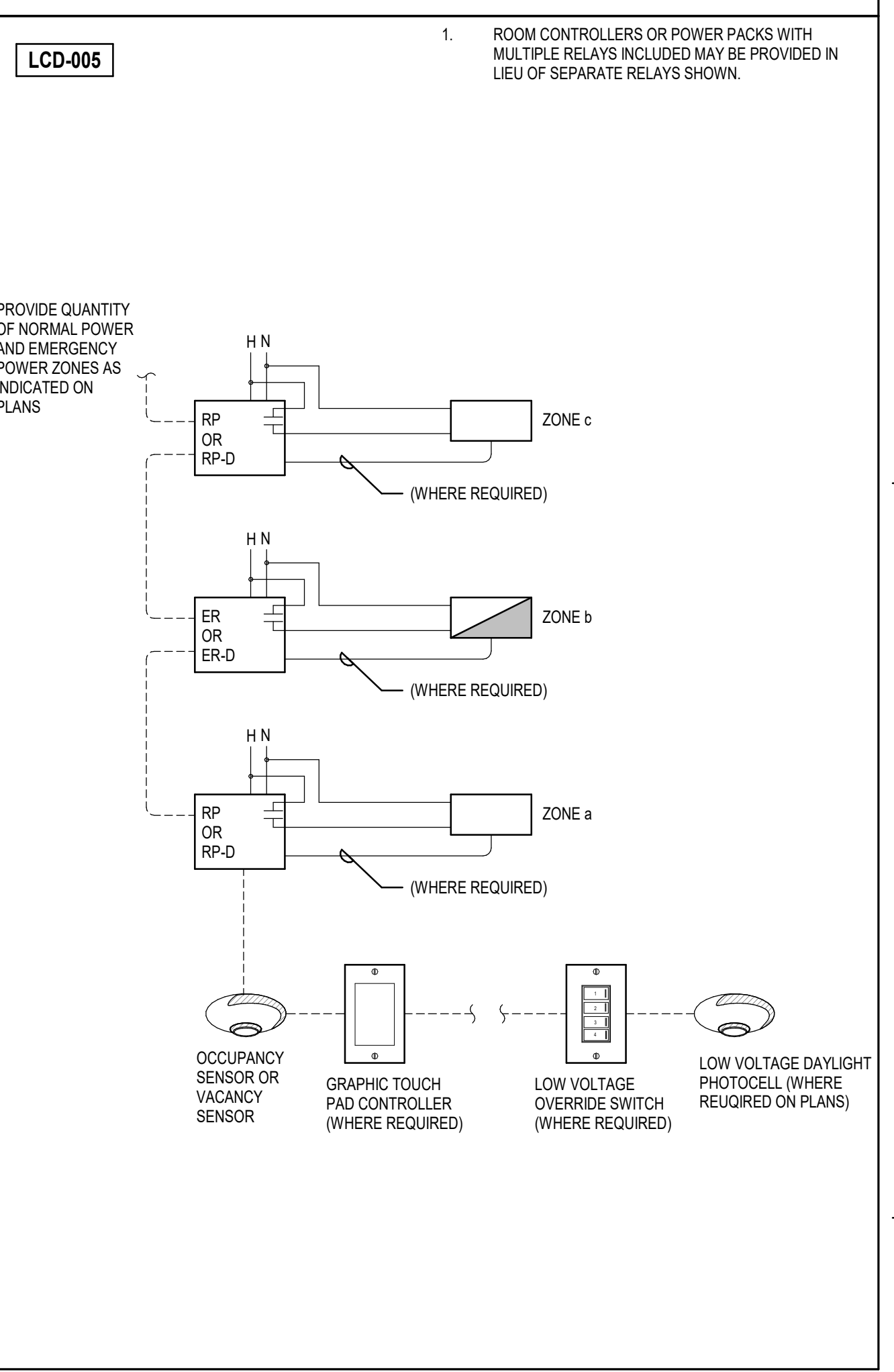
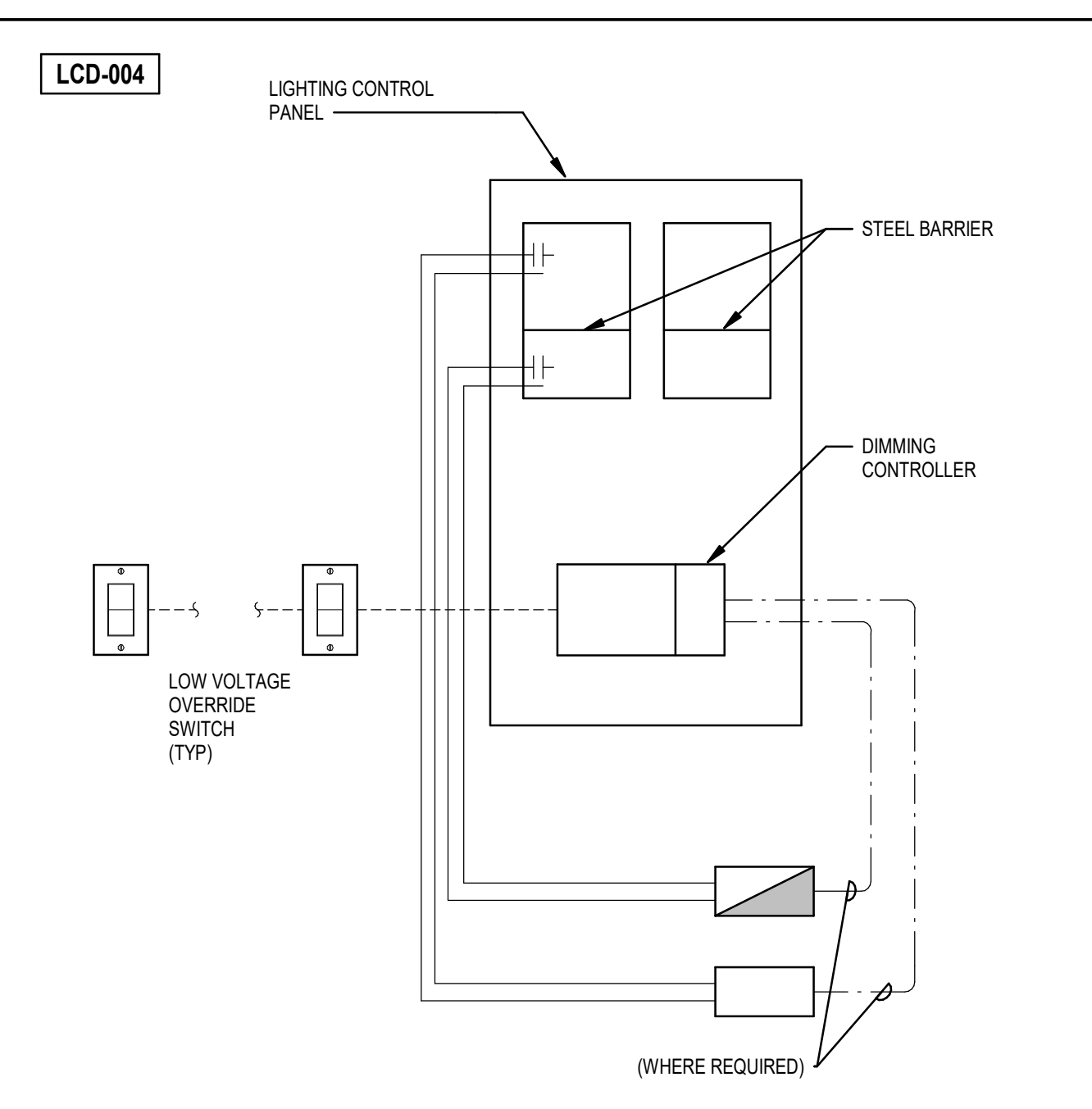
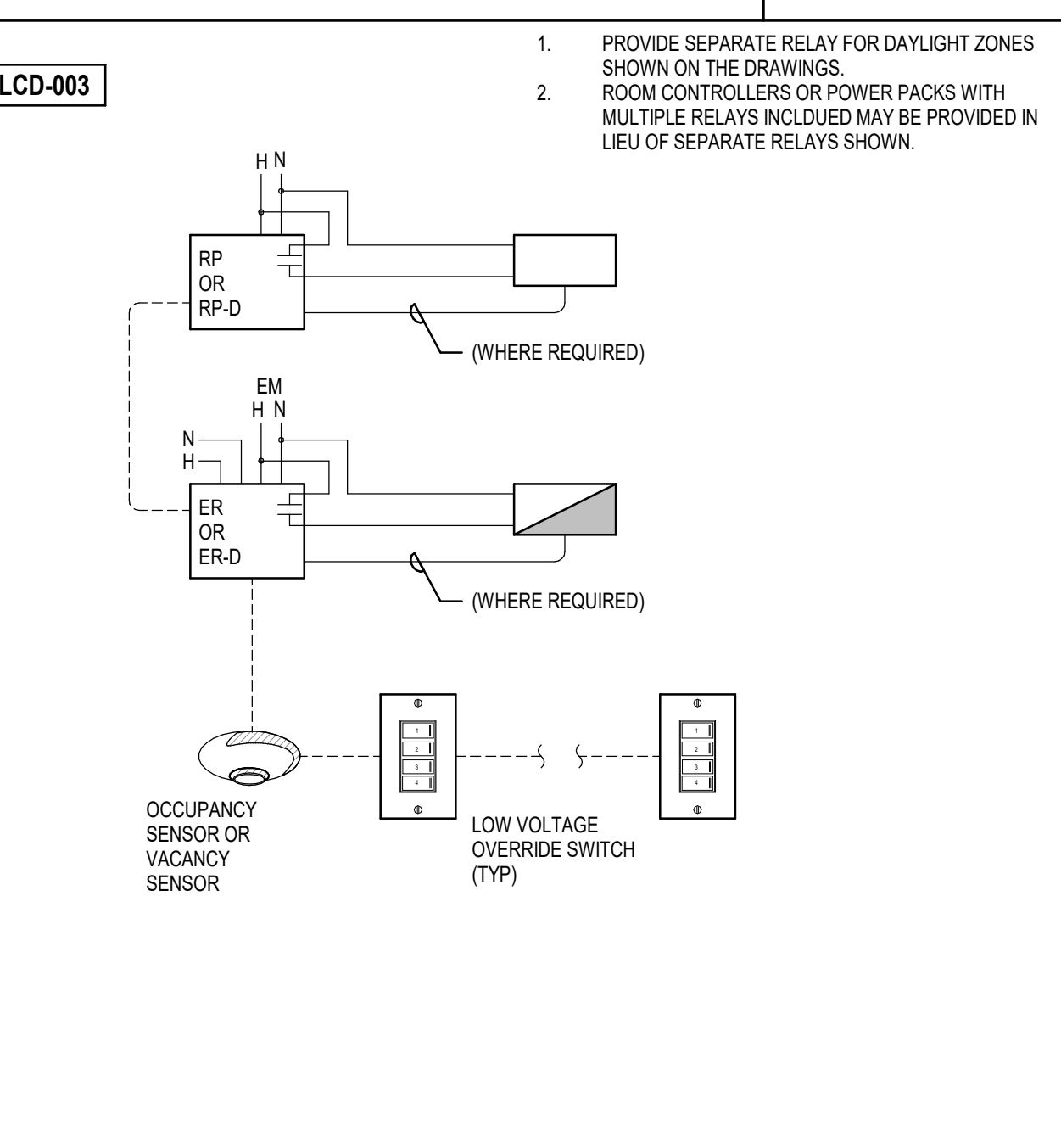
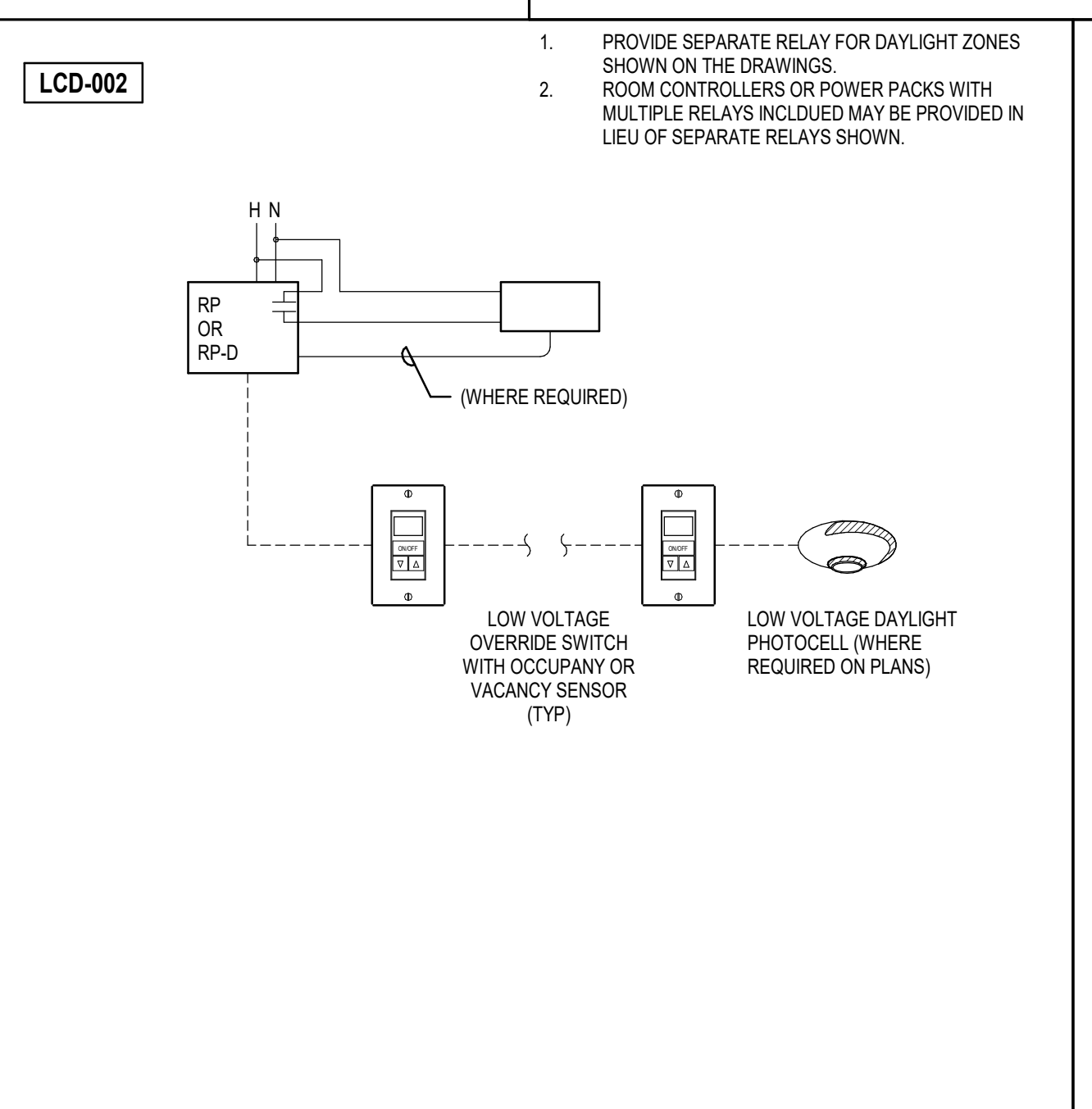
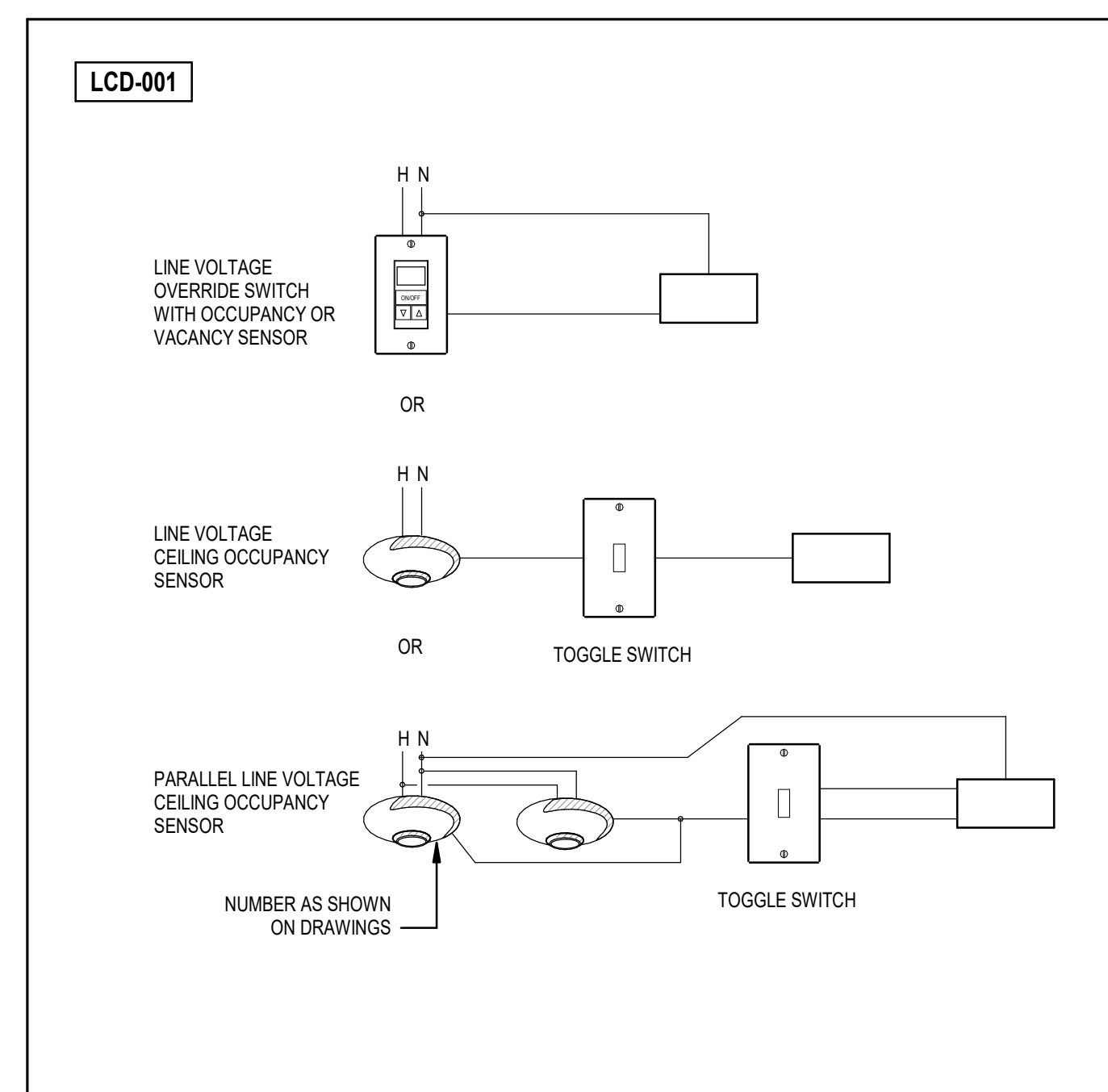
- REFER TO PLANS AND RELAY SCHEDULE FOR CIRCUITING INFORMATION.
- 3/4" CONDUIT (WHERE NOT ACCESSIBLE) WITH CONTROL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS.
- CAT5 ETHERNET PATCH CABLE PER SPECIFICATIONS. PROVIDE TWO DATA DROPS TO A SINGLE DATA OUTLET ADJACENT TO THE LIGHTING CONTROL PANEL.



**1 LIGHTING CONTROL PANEL RISER DIAGRAM**  
SCALE: NTS

**LIGHTING CONTROL NOTES**

- PROGRAMMING SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO SUBSTANTIAL COMPLETION.
- CONTRACTOR SHALL MODIFY PROGRAMMING AND PRESET SCENES AS REQUESTED BY OWNER.
- PROVIDE FINE TUNING PROGRAMMING MODIFICATIONS AS REQUESTED BY THE OWNER WITHIN 6 MONTHS AFTER BUILDING OCCUPANCY.
- IN ADDITION TO PRESET SCENES PROVIDE INDIVIDUAL CONTROL FOR EACH ZONE.
- ALL WIRING DIAGRAMS ARE GENERAL IN NATURE. SPECIFIC CONFIGURATION AND QUANTITIES DUE TO MANUFACTURER AVAILABILITY WILL VARY. CONTRACTOR MUST PROVIDE ALL REQUIRED PARTS OF THE SYSTEM TO PERFORM AS INTENDED.
- REFER TO FLOOR PLANS FOR EXACT DEVICE COUNT, DEVICE TYPE, QUANTITY OF POWER PACKS, AND PHOTOCELL SETTINGS.



ARCHITECTS INFORMATION

SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1360  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME

BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISSION ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P. (801) 534-1130  
F. (801) 534-1080  
www.envisioneng.com

ENVY-2023-220

| NO. | DATE     | DESCRIPTION |
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| 01  | 02/05/24 | PERMIT SET  |

ISSUED:

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: MH  
CHECKED BY: SH  
DESIGNED BY: MH  
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SHEET TITLE

DETAILS - LIGHTING WIRING DIAGRAM

SHEET NUMBER

EL502



## LOW VOLTAGE PUSHBUTTON SCHEDULE

| SWITCH ID | SWITCH CONFIGURATION | B-1           | B-2             | B-3           | B-4        | B-5        | B-6             | B-7             | B-8 | PROGRAMMING NOTES: |
|-----------|----------------------|---------------|-----------------|---------------|------------|------------|-----------------|-----------------|-----|--------------------|
| 2         | 6 BUTTON             | ALL ON/OFF    | ZONE A ON/OFF   | ZONE B ON/OFF | ZONE A DIM | ZONE B DIM | ALL DIM UP/DOWN |                 |     |                    |
| 3         | 7 BUTTON             | ZONE A ON/OFF | ZONE B ON/OFF   | ZONE C ON/OFF | ZONE A DIM | ZONE B DIM | ZONE C DIM      | ALL DIM UP/DOWN |     |                    |
| VS        | 2 BUTTON             | ALL ON/OFF    | ALL DIM UP/DOWN |               |            |            |                 |                 |     | <varies>           |

## LIGHTING CONTROL PANEL LCP1

| ELECTRICAL INFO |       |     | LOCATION                  | CONTROL | PROGRAMMING | DIMMING |
|-----------------|-------|-----|---------------------------|---------|-------------|---------|
| RELAY           | PANEL | CKT |                           |         |             |         |
| LCP1-1          | P2    | 3   | NORTH CORRIDOR LIGHTING   | VS, TC  | A           | 0-10V   |
| LCP1-2          | P2    | 3   | NORTH LOBBY/WAITING AREA  | VS, TC  | A           | 0-10V   |
| LCP1-3          | P2    | 13  | NORTH CORRIDOR LIGHTING   | VS, TC  | A           | 0-10V   |
| LCP1-4          | P2    | 13  | SPECIALTY LIGHTING        | TC      | B           | 0-10V   |
| LCP1-5          | P1    | 1   | SOUTH CORRIDOR LIGHTING   | VS, TC  | A           | 0-10V   |
| LCP1-6          | P2    | 13  | SOUTH LOBBY/WAITING AREAS | VS, TC  | A           | 0-10V   |
| LCP1-7          | P2    | 5   | EXTERIOR LIGHTING         | TC, PC  | C           | 0-10V   |
| LCP1-8          |       |     | SPARE                     |         |             |         |
| LCP1-9          |       |     | SPARE                     |         |             |         |
| LCP1-10         |       |     | SPARE                     |         |             |         |
| LCP1-11         |       |     | SPARE                     |         |             |         |
| LCP1-12         |       |     | SPARE                     |         |             |         |

### CONTROLS LEGEND

|    |                            |
|----|----------------------------|
| VS | OCCUPANCY / VACANCY SENSOR |
| TC | ASTRONOMICAL TIME CLOCK    |
| WS | LOCAL WALL SWITCH          |
| DS | INTERIOR DAYLIGHT SENSOR   |
| PC | EXTERIOR PHOTOCCELL        |

### DIMMING LEGEND

|       |                      |
|-------|----------------------|
| N     | NONE                 |
| 0-10V | 0-10 VOLT DIMMING    |
| D     | LINE VOLTAGE DIMMING |

| PROGRAMMING | LOAD DESCRIPTION            | PROGRAM REQUIREMENTS  |
|-------------|-----------------------------|---|
| A           | CORRIDOR AND LOBBY LIGHTING | ON AT TIME SPECIFIED BY OWNER, OFF AT TIME SPECIFIED BY OWNER, DIM TO 50% WHEN UNOCCUPIED AFTER 20 MINUTES. |
| B           | SPECIALTY LIGHTING          | ON AT TIME SPECIFIED BY OWNER, OFF AT TIME SPECIFIED BY OWNER   |
| C           |                             |   |
| D           |                             |   |
| E           |                             |   |
| F           |                             |   |
| G           |                             |   |
| H           |                             |   |

**GENERAL NOTES:**  
 1. PROGRAM SYSTEM TO MEET REQUIREMENTS OF 2021 IBC & 2021 IECC.  
 2. CONFIRM SWITCHING SCHEME WITH OWNER PRIOR TO PROGRAMMING SYSTEM.  
 3. INCLUDE A FINE TUNING VISIT WITHIN 3 MONTHS OF BUILDING OCCUPANCY AT OWNER'S REQUEST TO MAKE MINOR ADJUSTMENTS.  
 4. PROVIDE METAL STRIP BARRIER TO DIVIDE THE EMERGENCY LIGHTING FROM NORMAL LIGHTING.

## LIGHT FIXTURE SCHEDULE

| TYPE                     | DESCRIPTION  | SOURCE   | ELECTRICAL |      | APPROVED MANUFACTURERS  | CATALOG INFORMATION CATALOG NUMBER / SERIES   | COMMENTS / NOTES   |
|--------------------------|--|--|------------|------|---|---|--|
|                          |  |  | VOLTAGE    | LOAD |   |   |  |
| CV1                      | COVE LIGHTING<br>FIELD VERIFY LENGTH TO NEAREST 1/4" (")<br>SURFACE MOUNTED<br>120 DEGREE LENS REFLECTOR   | LED<br>700 LUMENS/FT<br>0-10V DIMMING<br>3500K       | 120 V      | 10   | NO LED<br>INSIGHT LIGHTING<br>OR PRIOR APPROVED EQUIVALENT                                    | CS-SL85CT-120-ID-UNV-W-SA-STD-F-CS-JHAR02-***<br>PCM 10 35K "A" ASYU SM "UNV DIM MG<br>OR PRIOR APPROVED EQUIVALENT                                 | LOAD IS 10 WATTS PER FOOT<br>FIELD VERIFY LENGTH TO NEAREST 1/4" (")<br>FIELD VERIFY POWER FEED LOCATION (")<br>FIELD VERIFY JUMPER LENGTH FOR CORNERS (")   |
| Downlight_Pendant_Single | DESCRIPTION:<br>DIMENSION:<br>MOUNTING:<br>MATERIAL: COLOR:<br>LENS MATERIAL:<br>LENS REFLECTOR DISTRIBUTION TYPE:   | LAMP TYPE: LED<br>LUMENS:<br>DIMMING:<br>COLOR TEMP: | 120 V      | 32   |   |   |  |
| DR6                      | LED RECESSED DOWNLIGHT<br>6" ROUND APERTURE<br>MOUNTING: RECESSED<br>COLOR: WHITE<br>MEDIUM BEAM ANGLE   | LED<br>2000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 20   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>PRESCOLITE  | HCR20D10 HM60525835 61MDW<br>LBR6 NCH 20LM 35K AR TRW LSS MWD MVOLT UGZ<br>LBRP-MJLSSLCSA8LBRP-4RD-T-WCLB-6R-F-TG<br>PRESCOLITE                     |  |
| DRE                      | LED RECESSED DOWNLIGHT<br>6" ROUND APERTURE<br>MOUNTING: RECESSED<br>COLOR: WHITE<br>MEDIUM BEAM ANGLE<br>INTEGRAL BATTERY PACK  | LED<br>2000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 20   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>PRESCOLITE  | HCR20D10 IEM14 HM60525835 61MDW<br>LBR6 NCH 20LM 35K AR TRW LSS MWD MVOLT UGZ E10WCP<br>LBRP-MJLSSLCS9-EM14LBRP-4RD-T-DLB-6R-F-TG-EMR*              |  |
| DW6                      | LED RECESSED DOWNLIGHT, WALL WASH<br>6" ROUND APERTURE<br>MOUNTING: RECESSED<br>COLOR: WHITE<br>WALL WASH DISTRIBUTION   | LED<br>2000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 20   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>PRESCOLITE  | HCR20D10 HM60525835 61RWWH<br>LBR6W NCH 20LM 35K AR LSS WW MVOLT UGZ<br>LFR-6R1W-A-20L35K-LW-WM-DIM-LFR-6R-W-LW-W-SLFR-6R-D-H                       |  |
| G24                      | 2X4 LED TROFFER<br>GRID MOUNTED<br>WHITE FINISH<br>ACRYLIC LENS<br>GENERAL REFLECTOR DISTRIBUTION  | LED<br>4000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 35   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>H.E. WILLIAMS   | W24Z-40-UNV-L835-CD1-U<br>STAK 2X4 4000LM 80CRI 35K COL MIN10 ZT MVOLT<br>LT-24-L40835-AF-DIM-UNV   |  |
| G24E                     | 2X4 LED TROFFER<br>GRID MOUNTED<br>WHITE FINISH<br>ACRYLIC LENS<br>GENERAL REFLECTOR DISTRIBUTION<br>INTEGRAL BATTERY PACK   | LED<br>4000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 35   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>H.E. WILLIAMS   | W24Z-40-UNV-EL14W5-L835-CD1-U<br>STAK 2X4 4000LM 80CRI 35K COL MIN10 ZT MVOLT E15W1LCP<br>LT-24-L40835-AF-EM12W-DIM-UNV                             |  |
| OLD                      | DESCRIPTION:<br>DIMENSION:<br>MOUNTING:<br>MATERIAL: COLOR:<br>LENS MATERIAL:<br>LENS REFLECTOR DISTRIBUTION TYPE:   | LAMP TYPE: LED<br>LUMENS:<br>DIMMING:<br>COLOR TEMP: | 120 V      | 5    |   |   |  |
| PL4                      | LED BACK OF HOUSE PENDANT STRIP LIGHT<br>4 (L) X 3 (W)<br>FITTURE TO BE HUNG AT 8FT ABOVE LEVEL<br>ACRYLIC LENS<br>WIDE LENS REFLECTOR                                 | LED<br>4800 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 10   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>H.E. WILLIAMS   | 45N-48SLLW-UNV-L835-CD1-U<br>CSS L48 4000LM MVOLT 35K 80CRI<br>75R-4-L50940-VB1-2-DMA-UNV   | CHAINS ARE TO BE USED TO HANG PENDANT<br>FITTURE. CONTRACTOR TO FIELD VERIFY AND<br>PROVIDE LENGTH OF CHAINS NEEDED TO MEET<br>FITTURE HEIGHT REQUIREMENT IN EACH ROOM<br>REQUIRED.                              |
| PLE                      | LED BACK OF HOUSE PENDANT STRIP LIGHT<br>4 (L) X 3 (W)<br>FITTURE TO BE HUNG AT 8FT ABOVE LEVEL<br>ACRYLIC LENS<br>WIDE LENS REFLECTOR<br>INTEGRAL BATTERY PACK        | LED<br>4800 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 10   | COOPER LIGHTING<br>LITHONIA LIGHTING<br>H.E. WILLIAMS   | 45N-48SLLW-UNV-L835-CD1-EL14W-U<br>CSS L48 4000LM MVOLT 35K 80CRI IE10WPCHE<br>75R-4-L50940-VB1-2-EM10WLP-DIM-UNV                                   | LOAD IS 10 WATTS PER FOOT<br>CHAINS ARE TO BE USED TO HANG PENDANT<br>FITTURE. CONTRACTOR TO FIELD VERIFY AND<br>PROVIDE LENGTH OF CHAINS NEEDED TO MEET<br>FITTURE HEIGHT REQUIREMENT IN EACH ROOM<br>REQUIRED. |
| RG4                      | LED RECESSED LINEAR FIXTURE<br>4 (L) X 6 (W)<br>RECESSED, GRID MOUNTED<br>ACRYLIC LENS<br>WHITE FINISH   | LED<br>3000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 10   | COOPER LIGHTING<br>MARK ARCHITECTURAL<br>LIGHTING<br>H.E. WILLIAMS                            | 4RBG6-100D-L835<br>SL6L LOP 4FT FLP TG 80CRI 35K 900LMF MIN10 120 ZT<br>LRX5-G-4-L12835-DMA-DIM-UNV   | LOAD IS 10 WATTS PER FOOT<br>LOAD IS 10 WATTS PER FOOT   |
| RGE                      | LED RECESSED LINEAR FIXTURE<br>4 (L) X 6 (W)<br>RECESSED, GRID MOUNTED<br>ACRYLIC LENS<br>WHITE FINISH<br>INTEGRAL BATTERY PACK  | LED<br>3000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 10   | COOPER LIGHTING<br>MARK ARCHITECTURAL<br>LIGHTING<br>H.E. WILLIAMS                            | 4RBG6-100-EL14W-L835<br>SL6L LOP 4FT FLP TG 80CRI 35K 900LMF MIN10 120 IE10W1LCP ZT<br>LRX5-G-4-L12835-DMA-EM10WLP-DIM-UNV                          | LOAD IS 10 WATTS PER FOOT  |
| RHE                      | LED RECESSED LINEAR FIXTURE<br>FIELD VERIFY LENGTH TO NEAREST 2FT (")<br>RECESSED, HARD LID CEILING MOUNTED<br>ACRYLIC LENS<br>WHITE FINISH<br>INTEGRAL BATTERY PACK   | LED<br>900 LUMENS/FT<br>0-10V DIMMING<br>3500K       | 120 V      | 8    | MARK ARCHITECTURAL<br>LIGHTING<br>H.E. WILLIAMS<br>OR PRIOR APPROVED EQUIVALENT               | SL6L LOP "FT FLP FL 80CRI 35K 900LMF MIN10 120 "IE10WCP ZT<br>LRX5-F-L12835-DMA-EM10WLP-DIM-UNV<br>OR PRIOR APPROVED EQUIVALENT                     | LOAD IS 8 WATTS PER FOOT<br>FIELD VERIFY LENGTH TO NEAREST 2FT (")<br>NUMBER OF 4FT EMERGENCY SECTIONS WITH<br>BATTERY PACK (")  |
| RHW                      | LED RECESSED LINEAR FIXTURE, WALL WASH<br>FIELD VERIFY LENGTH TO NEAREST 1FT (")<br>RECESSED, HARD LID CEILING MOUNTED<br>ACRYLIC LENS                                 | LED<br>900 LUMENS/FT<br>0-10V DIMMING<br>3500K       | 120 V      | 8    | MARK ARCHITECTURAL<br>LIGHTING<br>OR PRIOR APPROVED EQUIVALENT                                | SL6L LOP "FT FLP FL 80CRI 35K 900LMF WW MIN10 120 ZT<br>OR PRIOR APPROVED EQUIVALENT  | LOAD IS 8 WATTS PER FOOT<br>FIELD VERIFY LENGTH TO NEAREST 1FT (")   |
| RHX                      | LED RECESSED LINEAR FIXTURE<br>FIELD VERIFY LENGTH TO NEAREST 2FT (")<br>RECESSED, HARD LID CEILING MOUNTED<br>ACRYLIC LENS  | LED<br>900 LUMENS/FT<br>0-10V DIMMING<br>3500K       | 120 V      | 8    | MARK ARCHITECTURAL<br>LIGHTING<br>H.E. WILLIAMS<br>OR PRIOR APPROVED EQUIVALENT               | SL6L LOP "FT FLP FL 80CRI 35K 900LMF MIN10 120 ZT<br>LRX5-F-L12835-DMA-DIM-UNV<br>OR PRIOR APPROVED EQUIVALENT                                      | LOAD IS 8 WATTS PER FOOT<br>FIELD VERIFY LENGTH TO NEAREST 2FT (")   |
| SD3                      | LED DECORATIVE RING LIGHT<br>3FT DIAMETER<br>SURFACE MOUNTED<br>WHITE FINISH   | LED<br>4250 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 50   | LUMENWERX<br>LUMENWERX<br>ARANCIA LIGHTING<br>OR PRIOR APPROVED EQUIVALENT                    | RL-DSL-S-9-35K-3-STD-SCBA<br>CURVWRIS-D-3FT-HLO-NA-SW-80CRI-750LMF-NA-35K-UNV-RD1-1C-DRC-W<br>C89-3-N-B-1-U-0-SB-WH<br>RL-DSL-S-9-35K-3-STD-WH-EM15 |  |
| SDE                      | LED DECORATIVE RING LIGHT<br>3FT DIAMETER<br>SURFACE MOUNTED<br>WHITE FINISH<br>INTEGRAL BATTERY PACK  | LED<br>4250 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 50   | LUMENWERX<br>OR PRIOR APPROVED EQUIVALENT   | CURVWRIS-D-3FT-HLO-NA-SW-80CRI-750LMF-NA-35K-UNV-RD1-1C-DRC-W<br>OR PRIOR APPROVED EQUIVALENT   |  |
| TF1                      | LED SMALL SPOT MODULE<br>1.4" (W) X 6" (L) - 1.4" DIAMETER<br>RECESSED, HARD LID CEILING MOUNTED<br>WHITE FINISH<br>MAGNETICALLY HELD<br>91 DEGREE ADJUSTABLE ROTATION | LED<br>328 LUMENS<br>3500K                           | 120 V      | 5    | CORONET<br>OR PRIOR APPROVED EQUIVALENT   | MAG-SP-SM-35K-MED-W-FL-NA<br>OR PRIOR APPROVED EQUIVALENT   |  |
| TL2                      | LED RECESSED LINEAR FIXTURE, WALL WASH<br>1.4" (W) X 2 (L)<br>RECESSED, HARD LID CEILING MOUNTED<br>WHITE FINISH<br>RIBBED LENS  | LED<br>330 LUMENS/FT<br>3500K                        | 120 V      | 8    | CORONET<br>OR PRIOR APPROVED EQUIVALENT   | MAG-WW-2-35-MED-W-NA<br>OR PRIOR APPROVED EQUIVALENT  | LOAD IS 8 WATTS PER FOOT<br>FIELD VERIFY LENGTH TO NEAREST 1FT (")   |
| TL8                      | LED RECESSED LINEAR FIXTURE, WALL WASH<br>1.4" (W) X 8 (L)<br>RECESSED, HARD LID CEILING MOUNTED<br>WHITE FINISH<br>RIBBED LENS  | LED<br>330 LUMENS/FT<br>3500K                        | 120 V      | 8    | CORONET<br>OR PRIOR APPROVED EQUIVALENT   | MAG-WW-8-35-MED-W-NA<br>OR PRIOR APPROVED EQUIVALENT  | LOAD IS 8 WATTS PER FOOT<br>FIELD VERIFY LENGTH TO NEAREST 1FT (")   |
| WB1                      | EXTERIOR WALL PACK<br>WALL MOUNTED<br>CARBON BRONZE  | LED<br>2103 LUMENS<br>4000K                          | 120 V      | 18   | LUMARK<br>OR PRIOR APPROVED EQUIVALENT  | XTOR2B W PC1<br>OR PRIOR APPROVED EQUIVALENT  | FIXTURE SHALL MATCH EXISTING FIXTURES  |
| WS1                      | DECORATIVE LED BATHROOM VANITY<br>2(L) X 3(W)<br>WALL MOUNTED ABOVE MIRROR (FT ABOVE LEVEL)<br>GENERAL DISTRIBUTION TYPE<br>WHITE FINISH                               | LED<br>3000 LUMENS<br>0-10V DIMMING<br>3500K         | 120 V      | 23   | PACO LIGHTING<br>WAC LIGHTING<br>OR PRIOR APPROVED EQUIVALENT                                 | PUCO-2F-30-35-MV-D<br>WS-77624-35K-AL<br>OR PRIOR APPROVED EQUIVALENT   |  |
| XC                       | CEILING MOUNTED SINGLE FACE EXIT SIGN  | LED  | 120 V      | 2    | COPPER LIGHTING<br>LITHONIA LIGHTING<br>DUAL LITE<br>OR PRIOR APPROVED EQUIVALENT             | REURA18R<br>LRP 1 RC 120277<br>LECSRXWE<br>OR PRIOR APPROVED EQUIVALENT   | PROVIDE INTEGRAL BATTERY BACKUP  |
| XW                       | WALL MOUNTED SINGLE FACE EXIT SIGN<br><b>LIGHT FIXTURE GENERAL NOTES</b>   | LED  | 120 V      | 2    | COPPER LIGHTING<br>LITHONIA LIGHTING<br>DUAL LITE<br>LECSRXWE<br>OR PRIOR APPROVED EQUIVALENT | REURA18R<br>LRP 1 RC 120277<br>LECSRXWE<br>OR PRIOR APPROVED EQUIVALENT   | PROVIDE INTEGRAL BATTERY BACKUP  |

**LIGHT FIXTURE GENERAL NOTES**  
 1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.  
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS AND / OR ARCHITECT PRIOR TO BIDDING.  
 3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE REQUIREMENTS.  
 4. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL NOTED CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.  
 5. ALL LIGHT FIXTURES ARE TO BE 3500K FOR INTERIOR APPLICATIONS AND 4000K FOR EXTERIOR APPLICATIONS, UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.  
 6. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.  
 7. ALL LED SOURCES MUST MEET 1.80 AT 50,000 HRS MINIMUM UNLESS OTHERWISE NOTED.  
 8. CONFIRM ALL MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO RELEASE.  
 9. ALL LIGHT FIXTURES ARE TO HAVE AN EFFICACY OF 80 LUMENS PER WATT MINIMUM.

**BIDDING REQUIREMENTS**  
 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.  
 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED AND MUST BE BID SEPARATELY. I.E. LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.  
 3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.  
 4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

**LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS**  
 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.  
 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.  
 3. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVALS WILL NOT BE GIVEN ON ANY ITEM.  
 4. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.  
 5. PRIOR APPROVALS SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.  
 6. LIGHTING PACKAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLIANCE ONLY. AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS. ANY FIXTURES THAT ARE NOT TRULY EQUAL, AND / OR DO NOT COMPLY WITH ALL OF THE REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS, WILL NOT BE APPROVED. IF EQUIPMENT IS DISAPPROVED FOR BIDDING, CONTRACTOR SHALL SUPPLY SPECIFIED EQUIPMENT AT NO EXTRA COST TO THE OWNER.

**ARCHITECTS INFORMATION**



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kayville, Utah 84037  
 t. 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



7531217-2200  
**SCOTT A. HARDY**  
 PROFESSIONAL ENGINEER  
 STATE OF UTAH  
 2024-01-05

CODE OFFICIAL STAMP



REVIEWED FOR  
**CODE COMPLIANCE**  
 03/26/2024  
 [Signature]  
 BRIDGERLAND TECHNICAL COLLEGE  
 TRANSSHILL BUILDING REMODEL

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSSHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**ENVISION**  
ENGINEERING

240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P (801) 534-1130  
F (801) 534-1080  
www.envisioneng.com

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OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
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**LIGHT FIXTURE SCHEDULE**

SHEET NUMBER  
**EL601**

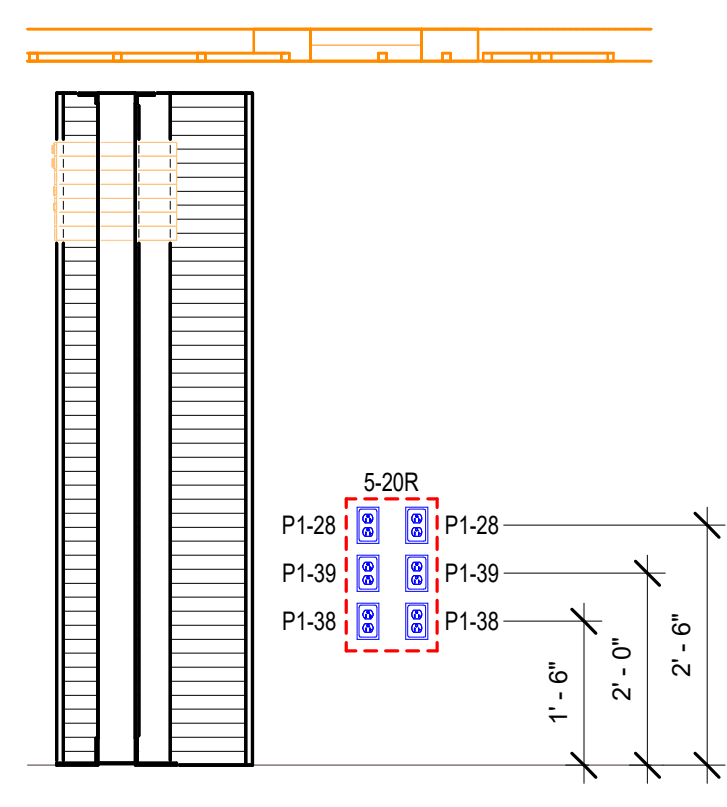




**BID ALTERNATE #1:**  
 PROVIDE LINE ITEM PRICING FOR THE FOLLOWING SCOPE OF WORK:  
**CLASSROOM 130**  
 1. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.  
**CLASSROOM 142**  
 2. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.

- POWER GENERAL NOTES:**
- ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.
  - THE DIVISION 26 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS AND CONDUIT RUNS.
- TELECOMMUNICATION GENERAL NOTES:**
- NO EXPOSED COMMUNICATIONS CONDUIT ALLOWED IN BUILDING UNLESS APPROVED IN ADVANCED BY OWNER/ARCHITECT.
  - ALL TELECOMMUNICATIONS OUTLETS SHALL BE LABELED IN ACCORDANCE WITH TIA/EIA 606-B. LABELING SHALL BE PROVIDED AT BOTH THE OUTLET AND THE TERMINATING END IN THE COMMUNICATIONS ROOM.
  - ALL DATA OUTLETS SHALL COMPLY WITH TIA/EIA 568 1-D, AND TIA/EIA 568-D, AND BE WIRED IN ACCORDANCE WITH TIA/EIA T568-2.
  - ALL CONDUIT FOR TELECOMMUNICATIONS PURPOSES SHALL BE EMT AND SHALL BE SIZED PER ANSI/TIA/EIA 568-D. MINIMUM CONDUIT SIZE FOR ANY TELECOMMUNICATIONS CABLE SHALL BE 1". CONDUIT SHALL NOT BE FILLED TO GREATER THAN 50% OF ITS MAXIMUM CABLE CARRYING CAPACITY.
  - THE DIVISION 27 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, CONDUIT, AND CABLE TRAY RUNS.
  - DATA/COMMUNICATION CONDUITS TO BE RAN SUCH THAT MAXIMUM DATA CABLE LENGTH (NOT CONDUIT LENGTH) IS NOT TO EXCEED 90 METERS BETWEEN DATA OUTLET AND NEAREST DATA ROOM.
  - EXISTING DATA/COMMUNICATION CABLES IN EXISTING TO REMAIN AREAS ARE TO BE PROTECTED AND RECONNECTED TO NEW DATA RACKS. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH OWNER.
  - THERE ARE THREE DIFFERENT AND SEPERATE NETWORKS/RACKS TO BE PROVIDED:
    - BUSINESS
    - SCHOOL
    - AUXILIARY
- COORDINATE WITH OWNER PRIOR TO INSTALL TO CONFIRM CABLING AND CONNECTIONS AND DATA REQUIREMENTS.

- KEYED NOTES**
- RELOCATED PANELBOARD 'A'. REROUTE ALL CONDUIT AND CABLING TO NEW LOCATION. REUSE EXISTING CONDUIT AND FEEDER. PROVIDE NEW CONDUIT AND NEC SIZED WIRING AS NEEDED TO NEW LOCATION. EXISTING BREAKER TO REMAIN.
  - SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.
  - PROVIDE FOURPLEX RECEPTACLE IN AV CEILING ENCLOSURE. REFER TO AV DRAWINGS FOR EXACT LOCATION.
  - REFER TO MECHANICAL PLANS FOR EXHAUST FAN CONTROL REQUIREMENTS.
  - THIS AREA IS NOT WITHIN THE SCOPE OF THIS PROJECT. EXISTING POWER AND COMMUNICATION DEVICES ARE TO REMAIN AND BE REUSED.
  - PROVIDE 3/4" CONDUIT, WIRE AND JUNCTION BOXES FOR ADA PUSH BUTTON SYSTEM AND PUSH BUTTONS PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
  - FURNISH AND INSTALL BACK BOXES AND CONDUIT WITH PULL STRING FOR FUTURE DATA CONNECTION LOCATIONS. PROVIDE BLANK PLATE COVERS TO COVER BACK BOXES.
  - JUNCTION BOX FOR LOW VOLTAGE WIRING WITH POLISHED CHROME COVER PLATE LOCATED NEXT TO EACH URINAL OR TOILET VALVE. DO NOT INSTALL JUNCTION BOXES UNTIL THE EXACT LOCATIONS AND FINISHES ARE APPROVED BY THE ARCHITECT.
  - PROVIDE A GFCI RECEPTACLE UNDER THE COUNTER FOR AUTO SINK FAUCET. PLUMBING CONTRACTOR SHALL PROVIDE AC TRANSFORMER PLUG WITH NECESSARY LOW VOLTAGE WIRING. RECEPTACLE WILL ALSO PROVIDE POWER FOR SOAP DISPENSERS.
  - PROVIDE A JUNCTION BOX UNDER THE COUNTER FOR AUTO FLUSH TOILETS. PLUMBING CONTRACTOR SHALL PROVIDE TRANSFORMER WITH LOW VOLTAGE WIRING.
  - PROVIDE A JUNCTION BOX UNDER THE COUNTER FOR AUTO FLUSH URINALS. PLUMBING CONTRACTOR SHALL PROVIDE TRANSFORMER WITH LOW VOLTAGE WIRING.
  - PROVIDE A JUNCTION BOX IN THE PLUMBING CHASE FOR AUTO FLUSH TOILETS. PLUMBING CONTRACTOR SHALL PROVIDE TRANSFORMER WITH LOW VOLTAGE WIRING.
  - PROVIDE A JUNCTION BOX IN THE PLUMBING CHASE FOR AUTO FLUSH URINALS. PLUMBING CONTRACTOR SHALL PROVIDE TRANSFORMER WITH LOW VOLTAGE WIRING.
  - JUNCTION BOX FOR LOW VOLTAGE WIRING WITH COVER PLATE LOCATED IN PLUMBING CHASE, BEHIND EACH URINAL OR TOILET.



**2 DATA RACK OUTLET ELEVATIONS**  
 1/2" = 1'-0"

**1 LEVEL 1 - POWER - AREA "A"**  
 1/8" = 1'-0"

**ARCHITECTS INFORMATION**

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kayville, Utah 84037  
 T 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

**PROFESSIONAL STAMP**

**CODE OFFICIAL STAMP**

**PROJECT NAME:**  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION ENGINEERING**  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1080  
 www.envisioneng.com

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 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
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**SHEET TITLE:**  
**LEVEL 1 - POWER  
 - AREA "A"**

**SHEET NUMBER:**  
**EP101**

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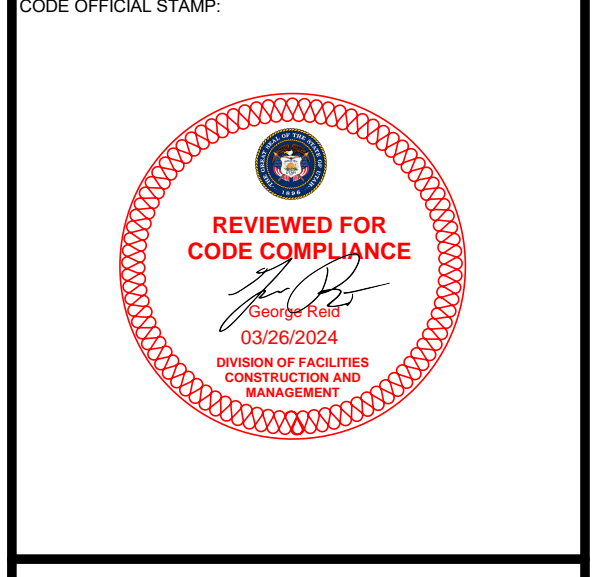


**BID ALTERNATE #1:**  
 PROVIDE LINE ITEM PRICING FOR THE FOLLOWING SCOPE OF WORK:

**CLASSROOM 130**  
 1. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.

**CLASSROOM 142**  
 2. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.

- POWER GENERAL NOTES:**
- ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.
  - THE DIVISION 26 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS AND CONDUIT RUNS.
- TELECOMMUNICATION GENERAL NOTES:**
- NO EXPOSED COMMUNICATIONS CONDUIT ALLOWED IN BUILDING UNLESS APPROVED IN ADVANCED BY OWNER/ARCHITECT.
  - ALL TELECOMMUNICATIONS OUTLETS SHALL BE LABELED IN ACCORDANCE WITH TIA/EIA 606-B. LABELING SHALL BE PROVIDED AT BOTH THE OUTLET AND THE TERMINATING END IN THE COMMUNICATIONS ROOM.
  - ALL DATA OUTLETS SHALL COMPLY WITH TIA/EIA 568 1-D, AND TIA/EIA 569-D, AND BE WIRED IN ACCORDANCE WITH TIA/EIA 568-C.2.
  - ALL CONDUIT FOR TELECOMMUNICATIONS PURPOSES SHALL BE EMT AND SHALL BE SIZED PER ANSI/TIA/EIA 569-D. MINIMUM CONDUIT SIZE FOR ANY TELECOMMUNICATIONS CABLE SHALL BE 1". CONDUIT SHALL NOT BE FILLED TO GREATER THAN 50% OF ITS MAXIMUM CABLE CARRYING CAPACITY.
  - THE DIVISION 27 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, CONDUIT, AND CABLE TRAY RUNS.
  - DATA/COMMUNICATION CONDUITS TO BE RAN SUCH THAT MAXIMUM DATA CABLING LENGTH (NOT CONDUIT LENGTH) IS NOT TO EXCEED 90 METERS BETWEEN DATA OUTLET AND NEAREST DATA ROOM.
  - EXISTING DATA/COMMUNICATION CABLING IN EXISTING TO REMAIN AREAS ARE TO BE PROTECTED AND RECONNECTED TO NEW DATA RACKS. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH OWNER.
  - THERE ARE THREE DIFFERENT AND SEPERATE NETWORKS/RACKS TO BE PROVIDED:
    - BUISNESS
    - SCHOOL
    - AUXILIARY
- COORDINATE WITH OWNER PRIOR TO INSTALL TO CONFIRM CABLING AND CONNECTIONS AND DATA REQUIREMENTS.
- KEYED NOTES**
- P3 RELOCATED 'NAC2' PANEL.
- P5 PROVIDE 1" CONDUIT STUB FROM AV BACK BOX TO NEAREST CABLE TRAY
- P6 SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.
- P7 PROVIDE FOURPLEX RECEPTACLE IN AV CEILING ENCLOSURE. REFER TO AV DRAWINGS FOR EXACT LOCATION.
- P9 PROVIDE POWER FOR AUTOMATIC PROJECTOR SCREEN. REFER TO AV DRAWINGS FOR ADDITIONAL INFORMATION.
- P14 PROVIDE 3/4" CONDUIT, WIRE AND JUNCTION BOXES FOR ADA PUSH BUTTON SYSTEM AND PUSH BUTTONS PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION. COORDINATE EXACT PULL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- P15 FURNISH AND INSTALL BACK BOXES AND CONDUIT WITH PULL STRING FOR FUTURE DATA CONNECTION LOCATIONS. PROVIDE BLANK PLATE COVERS TO COVER BACK BOXES.
- P23 PROVIDE A GFCI RECEPTACLE UNDER THE SINK FOR AUTO SINK FAUCET. PLUMBING CONTRACTOR SHALL PROVIDE AC TRANSFORMER PLUG WITH NECESSARY LOW VOLTAGE WIRING. RECEPTACLE WILL ALSO PROVIDE POWER FOR SOAP DISPENSERS.



PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321



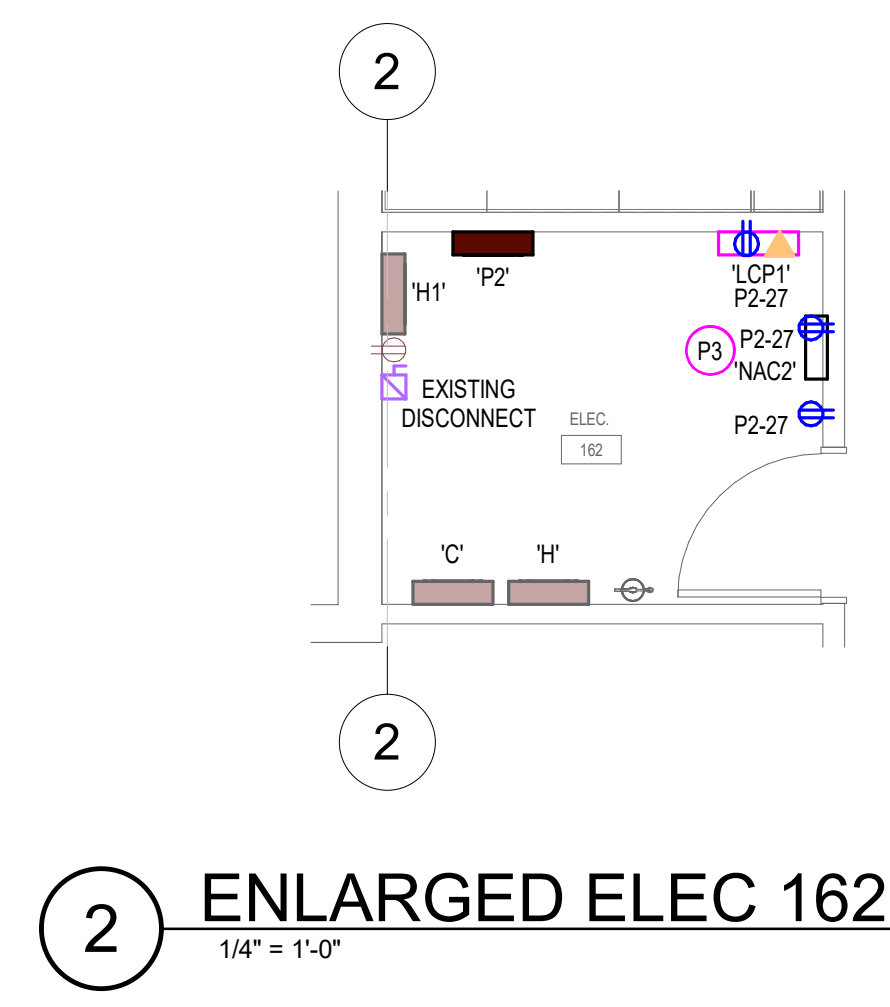
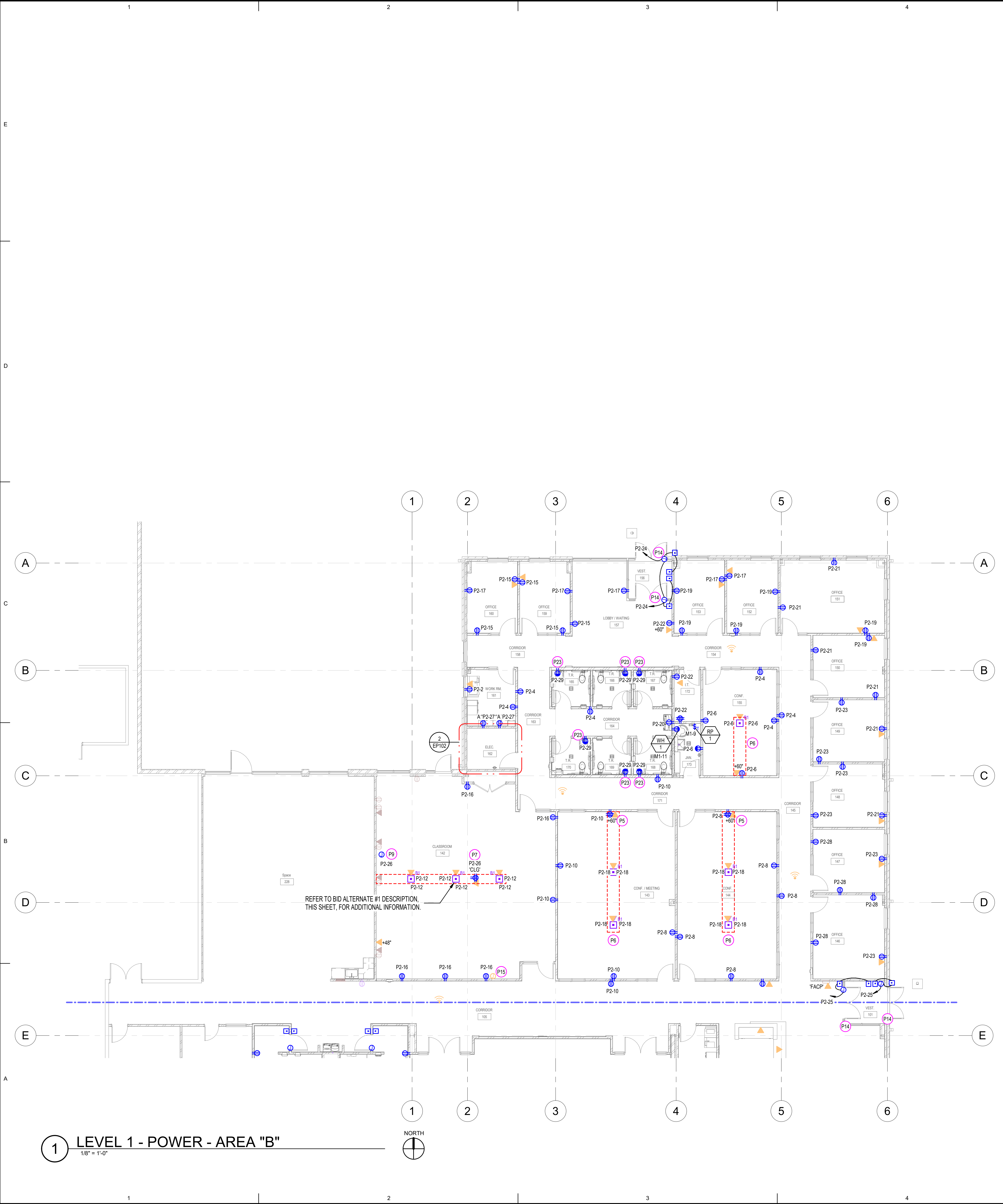
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| SPE PROJECT #:   | 22-38                 |      |             |
| DRAWN BY:        | MH                    |      |             |
| CHECKED BY:      | SH                    |      |             |
| DESIGNED BY:     | MH                    |      |             |
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SHEET TITLE:  
**LEVEL 1 - POWER  
 - AREA "B"**

SHEET NUMBER:  
**EP102**



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**IMPORTANT NOTE:**  
 ALL NEW CONDUIT, CABLEING, ETC. RELATED TO THE NEW RTU AND RELATED EQUIPMENT ARE TO BE RUN BENEATH THE ROOF DECK.

**POWER GENERAL NOTES:**

- ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.
- THE DIVISION 26 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS AND CONDUIT RUNS.

**KEYED NOTES** Ⓟ

P13 EXISTING CIRCUIT TO BE REUSED FOR NEW EXHAUST FAN. REFER TO MECHANICAL PLANS FOR CONTROL INFORMATION.

ARCHITECTS INFORMATION




**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



PROFESSIONAL ENGINEER  
 7531217-2201  
 SCOTT A. HARDY  
 STATE OF UTAH  
 2024-01-05

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 WALTER H. HATCHER  
 CONSTRUCTION AND  
 MANAGEMENT INC.

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENVISION<sup>®</sup>  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1180  
 www.envisioneng.com

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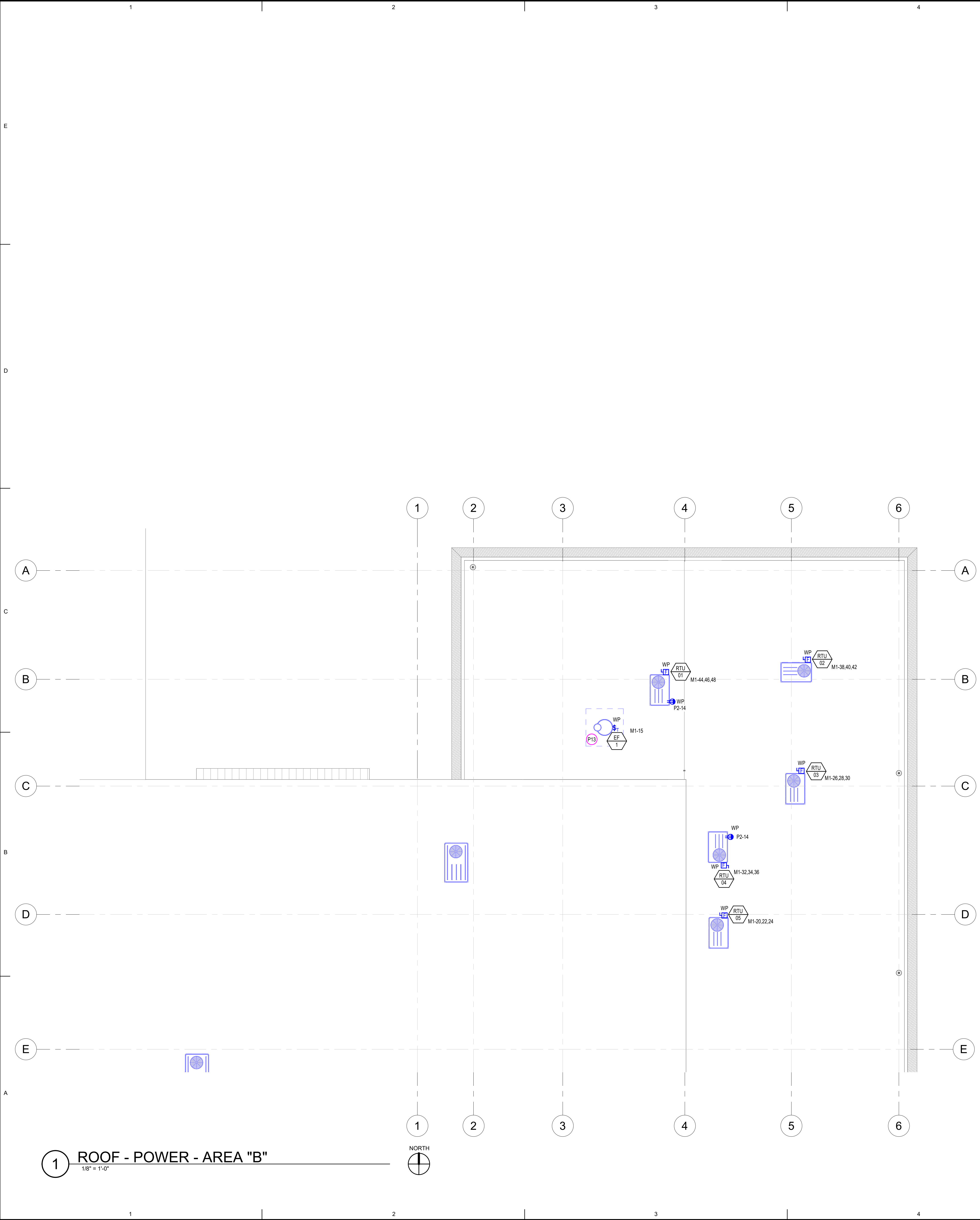
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 SPE PROJECT #: 22-38  
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SHEET TITLE:  
**ROOF - POWER - AREA "B"**

SHEET NUMBER:  
**EP104**

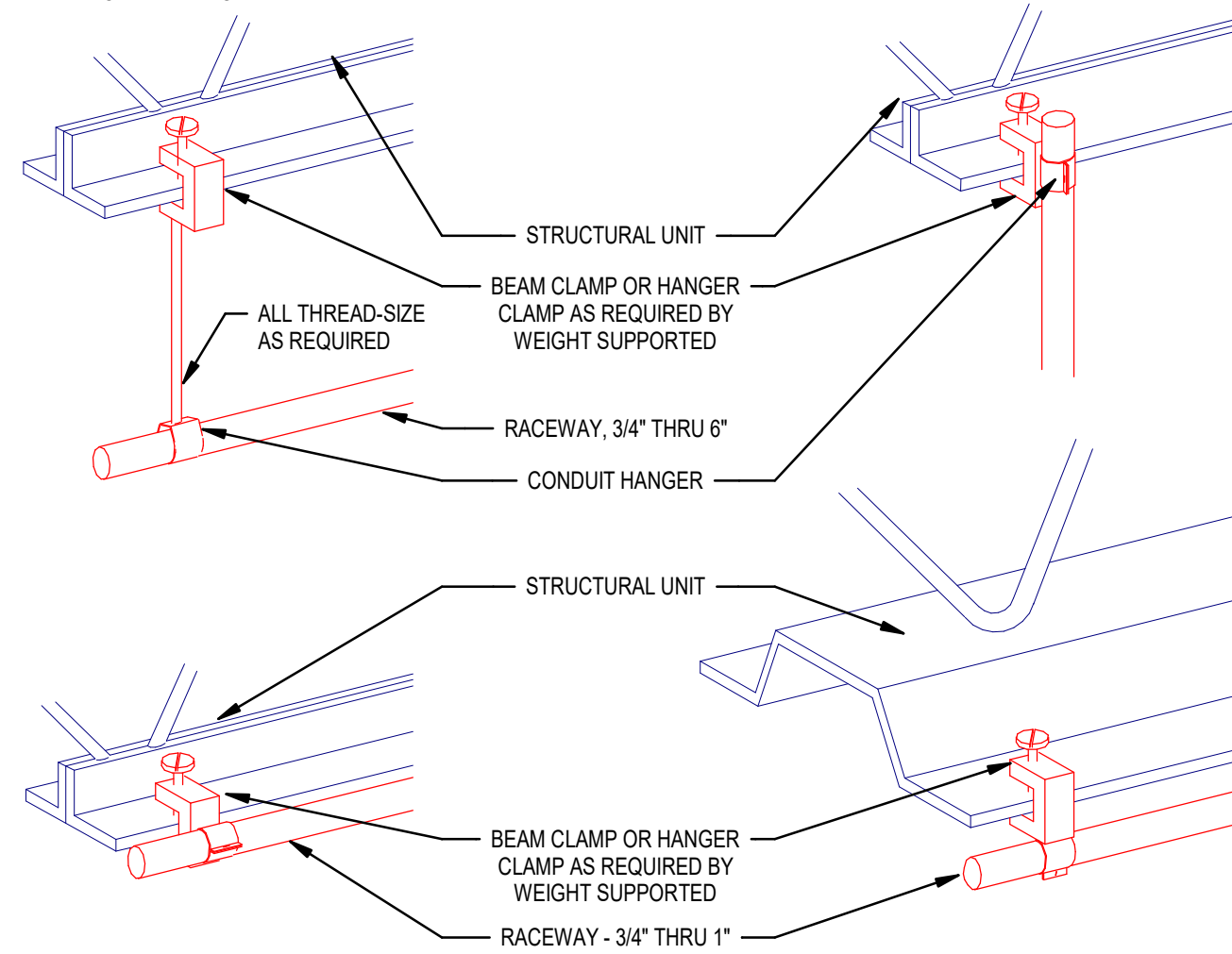


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**NOTES:**

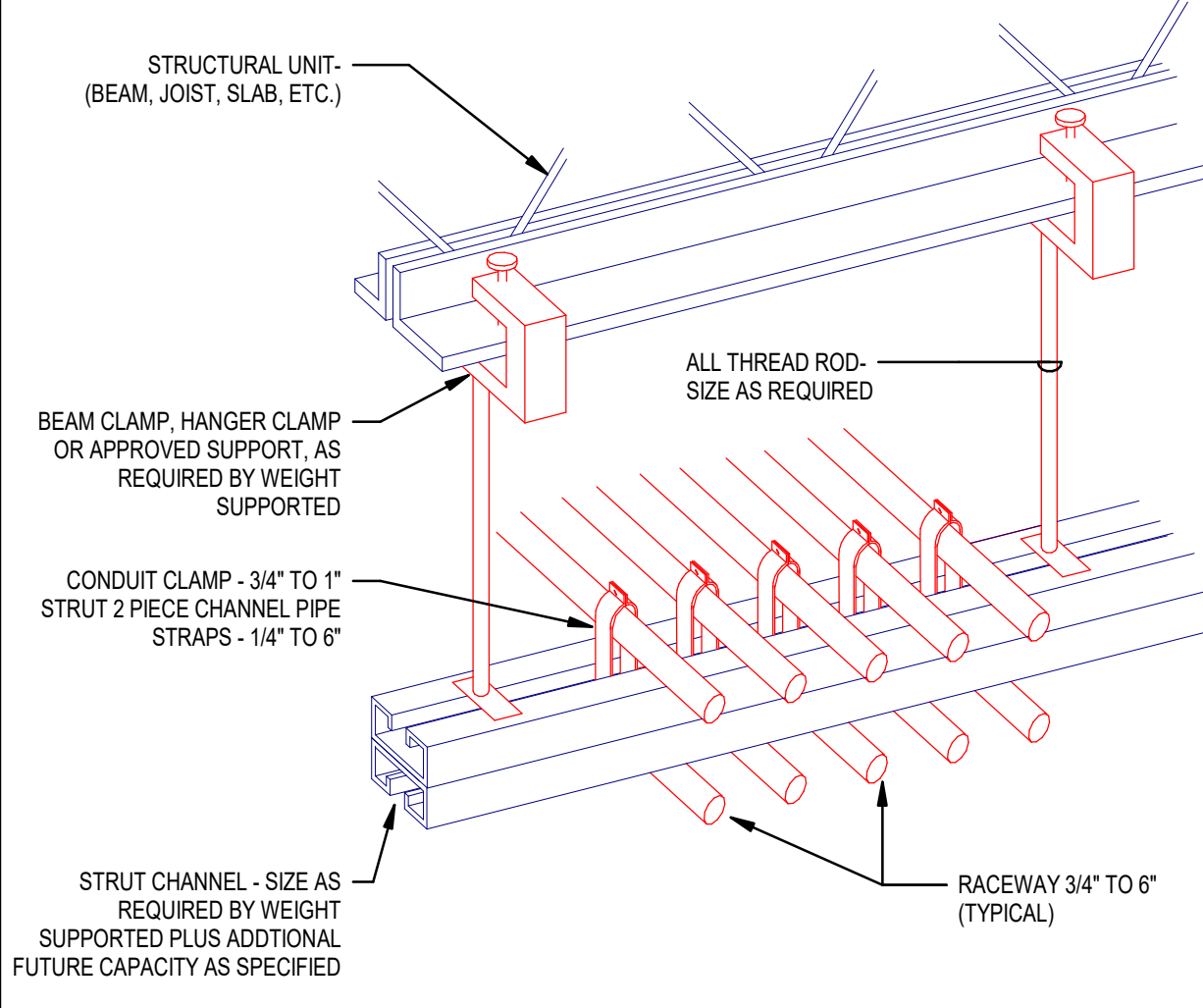
- THE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.



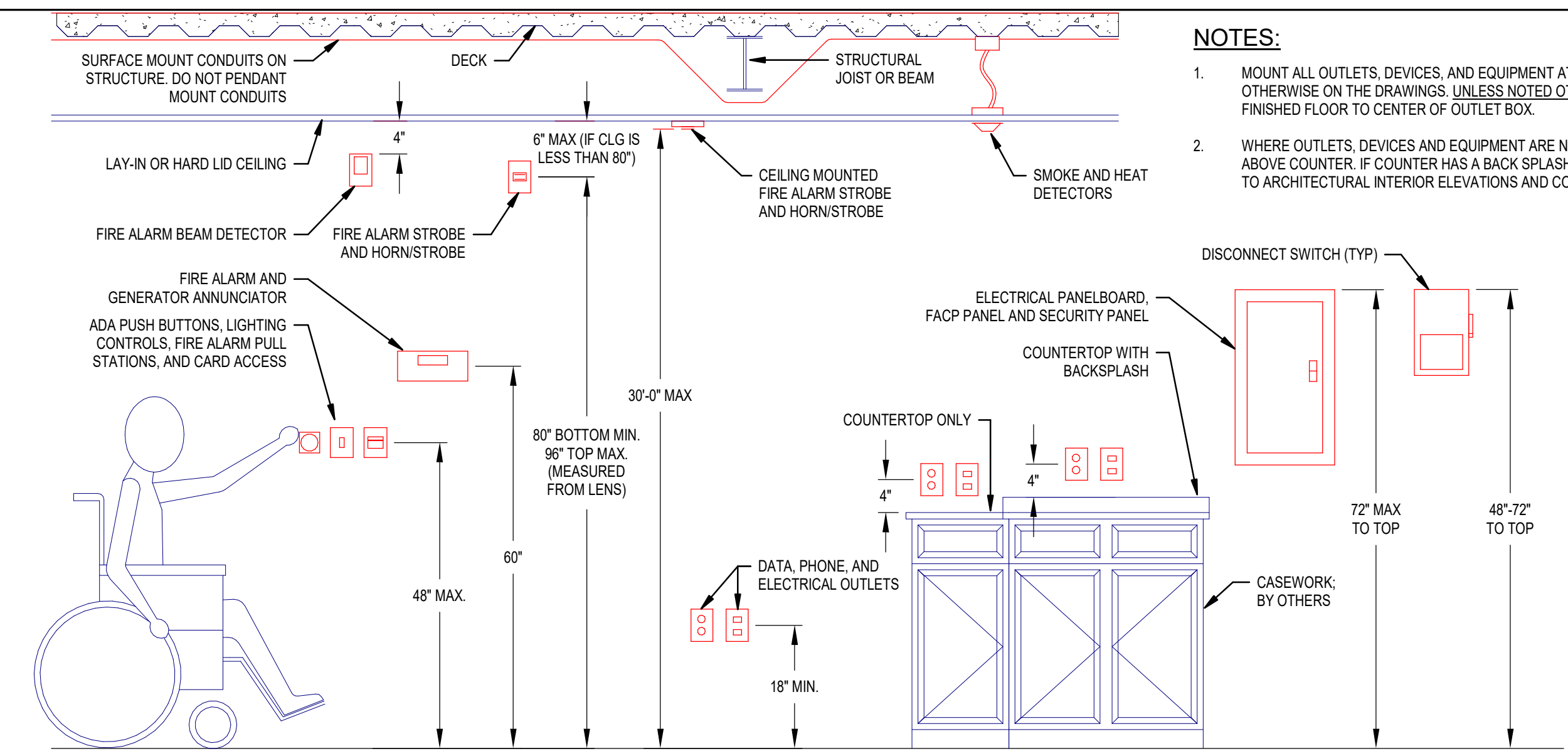
**3 TYPICAL SINGLE RACEWAY SUPPORT DETAILS**  
SCALE: NTS

**NOTES:**

- PROVIDE SUPPORT EVERY 8' OF CONDUIT RUN.



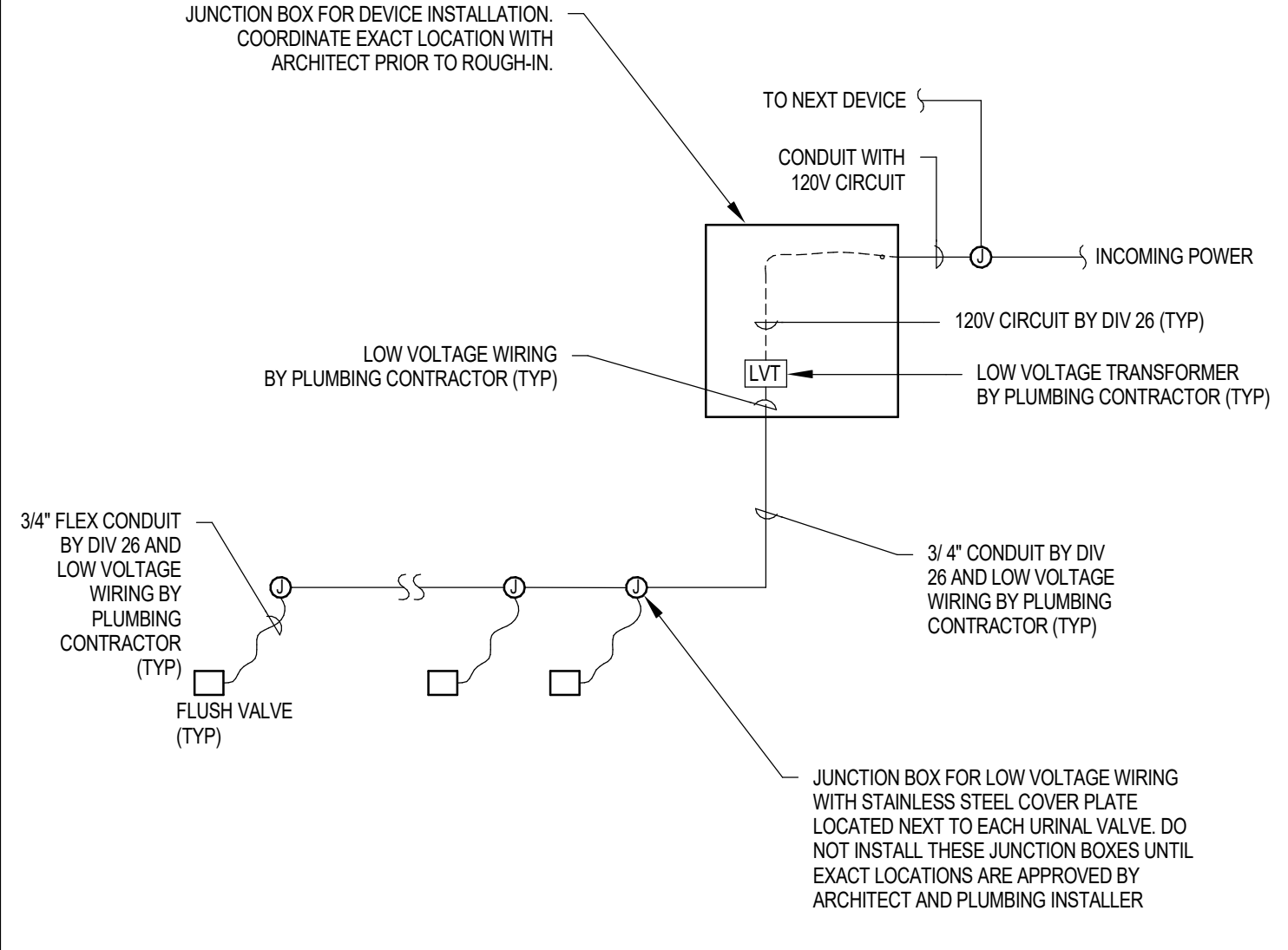
**2 TYPICAL MULTIPLE RACEWAY SUPPORT DETAIL**  
SCALE: NTS



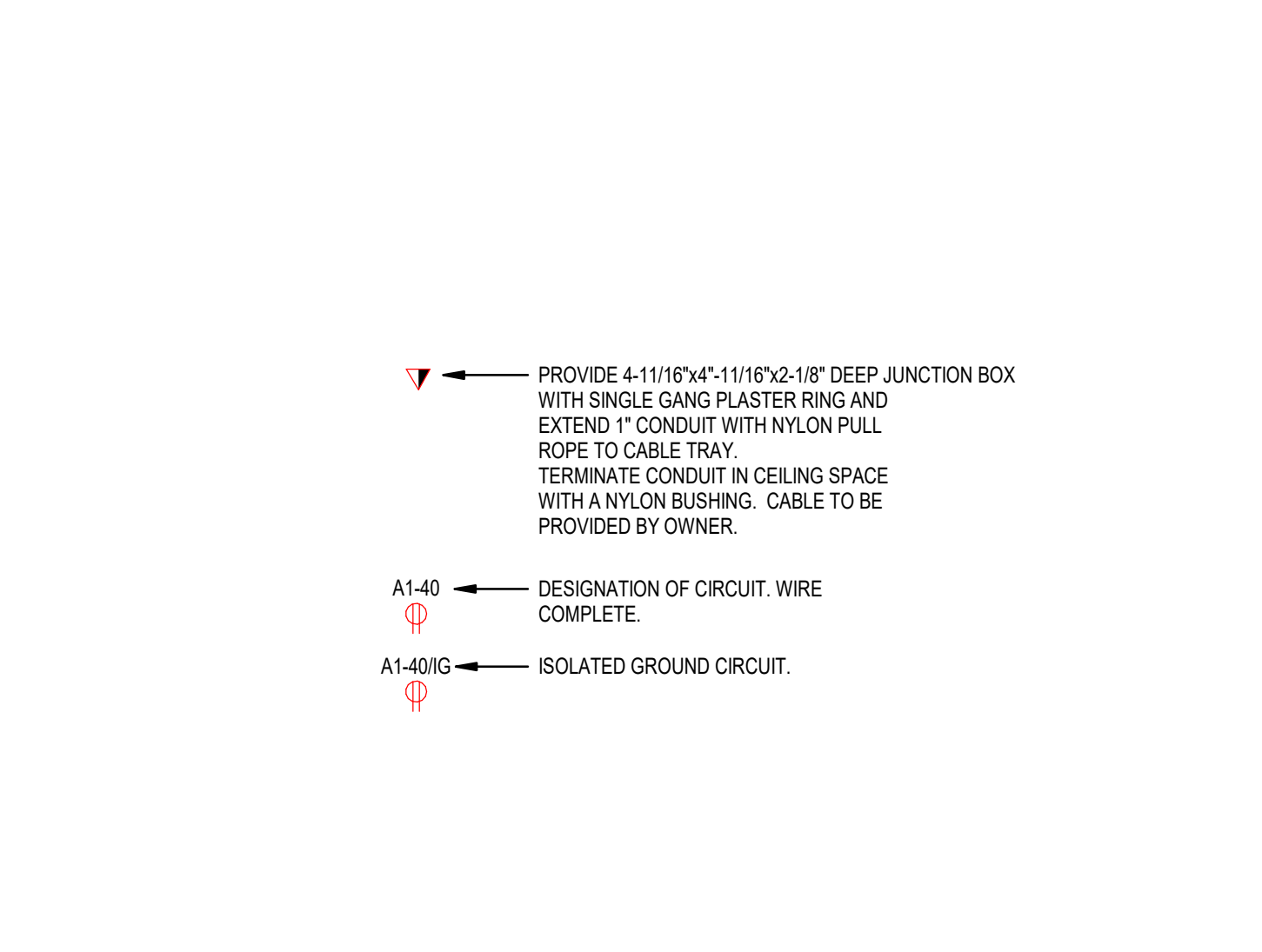
**NOTES:**

- MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW. UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
- WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'N', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.

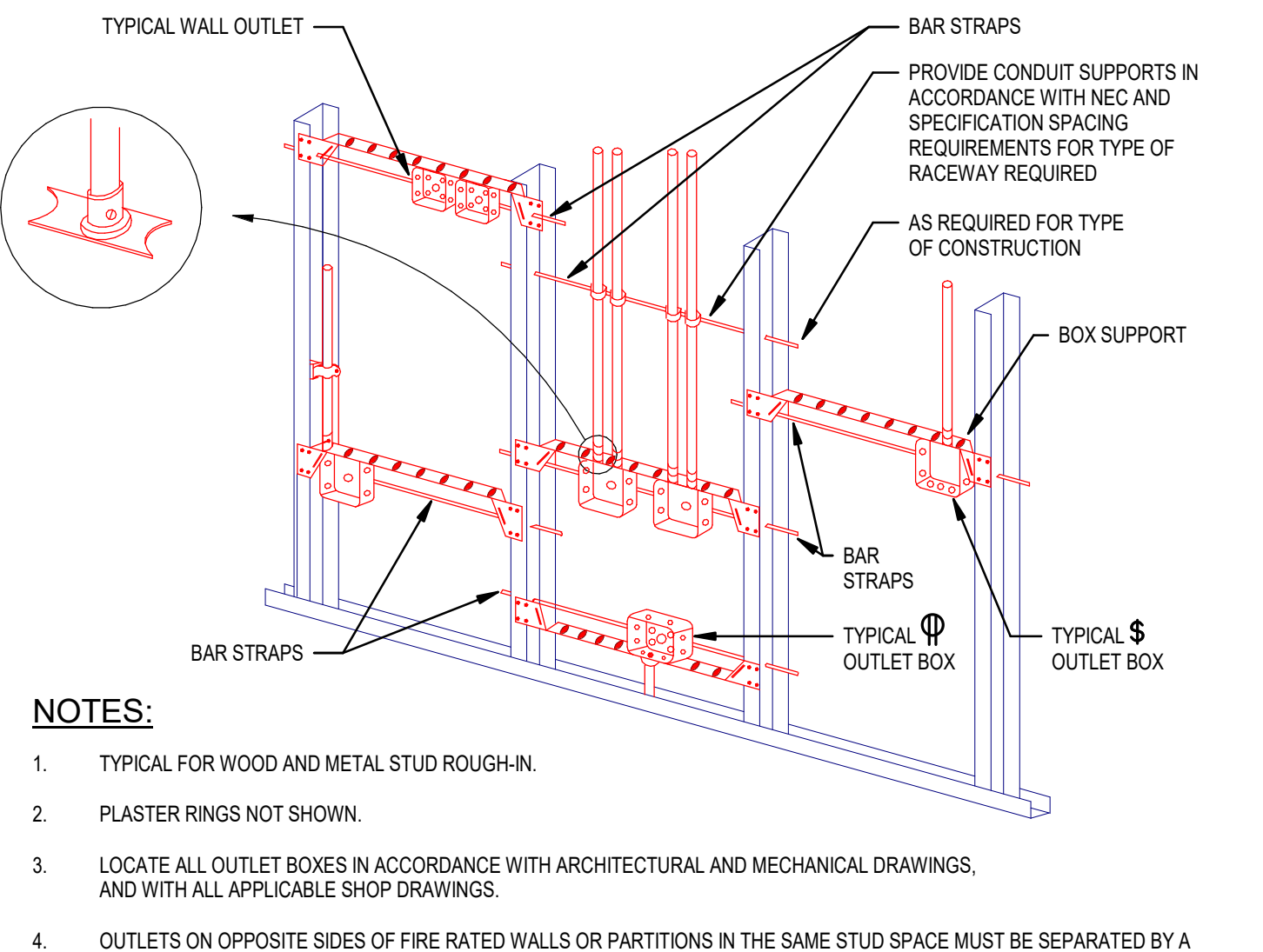
**1 TYPICAL ADA AND EQUIPMENT MOUNTING HEIGHT DETAIL**  
SCALE: NTS



**6 LOW VOLTAGE WIRING DIAGRAM**  
SCALE: NTS



**5 TYPICAL OUTLET CONVENTION**  
SCALE: NTS



**NOTES:**

- TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
- PLASTER RINGS NOT SHOWN.
- LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
- OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.

**4 TYPICAL ROUGH-IN REQUIREMENTS**  
SCALE: NTS

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1366  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

PROFESSIONAL ENGINEER  
7531217-2200  
SCOTT A. HARDY  
STATE OF UTAH  
2024-01-05

CODE OFFICIAL STAMP

REVIEWED FOR CODE COMPLIANCE  
03/26/2024  
SCOTT A. HARDY  
ARCHITECT

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**ENVISION**  
ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P: (801) 534-1130  
F: (801) 534-1180  
www.envisioneng.com

ENV-2023-220

| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

|                  |                       |
|------------------|-----------------------|
| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
| COPYRIGHT:       | © 2023 SPE ARCHITECTS |

SHEET TITLE:

**POWER DETAILS  
- TYPICAL**

SHEET NUMBER:

**EP501**



### PANELBOARD SCHEDULE

**PANEL NAME: M1**

MOUNTING: SURFACE      LOCATION: ELECT. 116      FEED FROM:      SPD: NONE  
ENCLOSURE: NEMA 1      VOLTAGE: 120/208 Wye      MAIN TYPE: MLO      BUS RATING: 100%  
DOOR TYPE: STANDARD      PHASE: 3      BUS RATING: N/A      NEUTRAL RATING: 100%  
Min. A.I.C. RATING: 42K      WIRES: 4      MCB RATING: N/A      ISOLATED GROUND: NONE  
BUS MATERIAL: COPPER

| BRANCH BREAKERS                                 |                           |      |      |           |       |          |          |          |         |           |      |      |                     |            |
|---|---------------------------|------|------|-----------|-------|----------|----------|----------|---------|-----------|------|------|---------------------|------------|
| KEYED NOTE                                      | CIRCUIT DESCRIPTION       | AMP  | POLE | Load Type | CKT # | A        | B        | C        | CKT #   | Load Type | POLE | AMP  | CIRCUIT DESCRIPTION | KEYED NOTE |
|   | RECIRC PUMP - JAN. 115    | 15 A | 1    | M         | 1     | 528 VA   | 2522 VA  |          | 2       | M         | 3    | 30 A | RTU 08              |            |
|   | WATER HEATER - JAN. 115   | 30 A | 1    | M         | 3     |          | 2880 VA  | 2522 VA  | 4       |           |      |      |                     |            |
|   | EXHAUST FAN 3 - MEN 127   | 20 A | 1    | M         | 5     |          |          | 1176 VA  | 2522 VA | 6         |      |      |                     |            |
|   | EXHAUST FAN 4 - WOMEN 128 | 20 A | 1    | M         | 7     | 1176 VA  | 3603 VA  |          | 8       | M         | 3    | 40 A | RTU 06              |            |
|   | RECIRC PUMP - JAN. 173    | 15 A | 1    | M         | 9     |          | 528 VA   | 3603 VA  | 10      |           |      |      |                     |            |
|   | WATER HEATER - JAN. 173   | 30 A | 1    | M         | 11    |          |          | 2880 VA  | 3603 VA | 12        |      |      |                     |            |
|   | EXHAUST FAN 2 - ROOF      | 20 A | 1    | M         | 13    | 1176 VA  | 2522 VA  |          | 14      | M         | 3    | 30 A | RTU 07              |            |
|   | EXHAUST FAN 1 - ROOF      | 20 A | 1    | M         | 15    |          | 1176 VA  | 2522 VA  | 16      |           |      |      |                     |            |
|   | RTU 12                    | 35 A | 3    | M         | 17    |          |          | 3122 VA  | 2522 VA | 18        |      |      |                     |            |
|   |                           |      |      |           | 19    | 3122 VA  | 2522 VA  |          | 20      | M         | 3    | 30 A | RTU 05              |            |
|   |                           |      |      |           | 21    |          | 3122 VA  | 2522 VA  | 22      |           |      |      |                     |            |
|   | RTU 11                    | 30 A | 3    | M         | 23    |          |          | 2522 VA  | 2522 VA | 24        |      |      |                     |            |
|   |                           |      |      |           | 25    | 2522 VA  | 2522 VA  |          | 26      | M         | 3    | 30 A | RTU 03              |            |
|   |                           |      |      |           | 27    |          | 2522 VA  | 2522 VA  | 28      |           |      |      |                     |            |
|   | RTU 10                    | 30 A | 3    | M         | 29    |          |          | 2522 VA  | 2522 VA | 30        |      |      |                     |            |
|   |                           |      |      |           | 31    | 2522 VA  | 2522 VA  |          | 32      | M         | 3    | 30 A | RTU 04              |            |
|   |                           |      |      |           | 33    |          | 2522 VA  | 2522 VA  | 34      |           |      |      |                     |            |
|   | RTU 16                    | 40 A | 3    | M         | 35    |          |          | 3603 VA  | 2522 VA | 36        |      |      |                     |            |
|   |                           |      |      |           | 37    | 3603 VA  | 3603 VA  |          | 38      | M         | 3    | 40 A | RTU 02              |            |
|   |                           |      |      |           | 39    |          | 3603 VA  | 3603 VA  | 40      |           |      |      |                     |            |
|   | RTU 15                    | 40 A | 3    | M         | 41    |          |          | 3603 VA  | 3603 VA | 42        |      |      |                     |            |
|   |                           |      |      |           | 43    | 3603 VA  | 3603 VA  |          | 44      | M         | 3    | 40 A | RTU 01              |            |
|   |                           |      |      |           | 45    |          | 3603 VA  | 3603 VA  | 46      |           |      |      |                     |            |
|   | RTU 09                    | 30 A | 3    | M         | 47    |          |          | 2522 VA  | 3603 VA | 48        |      |      |                     |            |
|   |                           |      |      |           | 49    | 2522 VA  |          |          | 50      |           | 1    |      | -SPACE ONLY-        |            |
|   |                           |      |      |           | 51    |          | 2522 VA  |          | 52      |           | 1    |      | -SPACE ONLY-        |            |
|   | -SPARE-                   | 20 A | 1    |           | 53    |          |          | 0 VA     | 0 VA    | 54        |      | 1    | 20 A                | -SPARE-    |
|   | -SPARE-                   | 20 A | 1    |           | 55    | 0 VA     | 0 VA     |          | 56      |           | 1    | 20 A | -SPARE-             |            |
|   | -SPARE-                   | 20 A | 1    |           | 57    |          | 0 VA     | 0 VA     | 58      |           | 1    | 20 A | -SPARE-             |            |
|   | -SPARE-                   | 20 A | 1    |           | 59    |          | 0 VA     | 0 VA     | 60      |           | 1    | 20 A | -SPARE-             |            |
|   | -SPARE-                   | 20 A | 1    |           | 61    | 0 VA     | 0 VA     |          | 62      |           | 1    | 20 A | -SPARE-             |            |
|   | -SPARE-                   | 20 A | 1    |           | 63    |          | 0 VA     | 0 VA     | 64      |           | 1    | 20 A | -SPARE-             |            |
| <b>TOTAL CONNECTED LOAD PER PHASE (VA)</b>      |                           |      |      |           |       | 44191 VA | 45895 VA | 45367 VA |         |           |      |      |                     |            |
| <b>TOTAL CONNECTED CURRENT PER PHASE (AMPS)</b> |                           |      |      |           |       | 368 A    | 384 A    | 380 A    |         |           |      |      |                     |            |

| TYPE | LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS                            |
|------|---------------------|----------------|---------------|------------------|---|
| P    | Panel               | 0 VA           | 0.00%         | 0 VA             |   |
| R    | Receptacle          | 0 VA           | 0.00%         | 0 VA             |   |
| L    | Lighting            | 0 VA           | 0.00%         | 0 VA             |   |
| C    | Continuous          | 0 VA           | 0.00%         | 0 VA             |   |
| E    | Equipment           | 0 VA           | 0.00%         | 0 VA             |   |
| M    | Motor               | 135452 VA      | 101.99%       | 138154 VA        | <b>Total Conn. Load: 135452 VA</b>      |
| K    | Kitchen             | 0 VA           | 0.00%         | 0 VA             | <b>25% OF LARGEST MOTOR:</b>            |
| O    | Other               | 0 VA           | 0.00%         | 0 VA             | <b>Total Est. Demand: 138154 VA</b>     |
|      |                     |                |               |                  | <b>Total Conn. Current: 376 A</b>       |
|      |                     |                |               |                  | <b>Total Est. Demand Current: 383 A</b> |

### PANELBOARD SCHEDULE

**PANEL NAME: P1**

MOUNTING: SURFACE      LOCATION: ELECT. 116      FEED FROM: LMDSA      SPD: NONE  
ENCLOSURE: NEMA 1      VOLTAGE: 120/208 Wye      MAIN TYPE: MLO      BUS RATING: 225 A  
DOOR TYPE: STANDARD      PHASE: 3      BUS RATING: N/A      NEUTRAL RATING: 100%  
Min. A.I.C. RATING: 35K      WIRES: 4      MCB RATING: N/A      ISOLATED GROUND: NONE  
BUS MATERIAL: COPPER

| BRANCH BREAKERS                                 |                                 |      |      |           |       |          |          |          |         |           |      |      |                              |                            |                          |  |
|---|---------------------------------|------|------|-----------|-------|----------|----------|----------|---------|-----------|------|------|------------------------------|----------------------------|--------------------------|--|
| KEYED NOTE                                      | CIRCUIT DESCRIPTION             | AMP  | POLE | Load Type | CKT # | A        | B        | C        | CKT #   | Load Type | POLE | AMP  | CIRCUIT DESCRIPTION          | KEYED NOTE                 |                          |  |
|   | LIGHTING - ROOM 132, 118, 12... | 20 A | 1    | L         | 1     | 1446 VA  | 1440 VA  |          | 2       | R         | E    | 1    | 20 A                         | RECIP - ROOM 137, 138      |                          |  |
|   | LIGHTING - ROOM 109, 110        | 20 A | 1    | L         | 3     |          | 936 VA   | 1080 VA  | 4       | R         | E    | 1    | 20 A                         | RECIP - ROOM 118, 123      |                          |  |
|   | LIGHTING - ROOM 135, 131, 11... | 20 A | 1    | L         | 5     |          |          | 956 VA   | 1440 VA | 6         | R    | E    | 1                            | 20 A                       | RECIP - ROOM 133, 134    |  |
|   | LIGHTING - ROOM 104, 119, 120   | 20 A | 1    | L         | 7     | 1505 VA  | 720 VA   |          | 8       | R         | E    | 1    | 20 A                         | RECIP - CLASSROOM 123      |                          |  |
|   | LIGHTING - ROOM 130, 123, 12... | 20 A | 1    | L         | 9     |          | 1500 VA  | 720 VA   | 10      | R         | E    | 1    | 20 A                         | EQUIP - CLASSROOM 123      |                          |  |
| 1   | RECIP - ROOM 114, 115, 116      | 20 A | 1    | R         | 11    |          |          | 540 VA   | 900 VA  | 12        | E    | 1    | 20 A                         | EQUIP - CLASSROOM 123      |                          |  |
|   | RECIP - ROOM 103, 104           | 20 A | 1    | R         | 13    | 720 VA   | 900 VA   |          | 14      | E         | 1    | 20 A | EQUIP - CLASSROOM 123        |                            |                          |  |
|   | EQUIP - COPY 104                | 20 A | 1    | E         | 15    |          | 1500 VA  | 900 VA   | 16      | E         | 1    | 20 A | EQUIP - CLASSROOM 123        |                            |                          |  |
|   | RECIP - ROOM 119, 141           | 20 A | 1    | R         | 17    |          |          | 1080 VA  | 860 VA  | 18        | R    | E    | 1                            | 20 A                       | RECIP - ROOM 124.1, 123  |  |
|   | EQUIP - ROOM 102, 103           | 20 A | 1    | E         | 19    | 1220 VA  | 540 VA   |          | 20      | R         | E    | 1    | 20 A                         | RECIP - ROOM 126, 125, 124 |                          |  |
|   | RECIP - ROOM 140, 120           | 20 A | 1    | R         | 21    |          | 1080 VA  | 900 VA   | 22      | R         | E    | 1    | 20 A                         | RECIP - CLASSROOM 130      |                          |  |
|   | RECIP - CONF. 119               | 20 A | 1    | R         | 23    |          |          | 860 VA   | 1080 VA | 24        | R    | E    | 1                            | 20 A                       | RECIP - ROOM 130, 131    |  |
|   | RECIP - CONF. 120               | 20 A | 1    | R         | 25    | 860 VA   | 720 VA   |          | 26      | E         | 1    | 20 A | EWV ALCOVE 106               | 1                          |                          |  |
|   | RECIP - CLASSROOM 121           | 20 A | 1    | R         | 27    |          | 1080 VA  | 1200 VA  | 28      | R         | E    | 1    | 20 A                         | RECIP - I.T. 135           | 1                        |  |
|   | RECIP - CLASSROOM 122           | 20 A | 1    | R         | 29    |          |          | 1080 VA  | 720 VA  | 30        | E    | 1    | 20 A                         | EWV PASSAGE 126            | 1                        |  |
|   | RECIP - ROOM 118, 139           | 20 A | 1    | R         | 31    | 900 VA   | 540 VA   |          | 32      | R         | E    | 1    | 20 A                         | RECIP - ROOF               |                          |  |
|   | EQUIP - ROOM 121, 122           | 20 A | 1    | E         | 33    |          | 1000 VA  | 1000 VA  | 34      | E         | 1    | 20 A | EQUIPMENT ROOM 126, 127, 128 |                            |                          |  |
|   | RECIP - ROOM 135, 136           | 20 A | 1    | R         | 35    |          |          | 1260 VA  | 1000 VA | 36        | E    | 1    | 20 A                         | EQUIPMENT ROOM 124, 132    |                          |  |
|   | EQUIP - ROOM 106, 107           | 20 A | 1    | E         | 37    | 1000 VA  | 1200 VA  |          | 38      | R         | E    | 1    | 20 A                         | RECIP - I.T. 135           |                          |  |
|   | RECIP - I.T. 135                | 20 A | 1    | R         | 39    |          | 1200 VA  | 700 VA   | 40      | R         | E    | 1    | 20 A                         | SCREEN CLASS 130           |                          |  |
|   | WOMEN 110                       | 20 A | 1    | R         | 41    |          |          | 1260 VA  | 1080 VA | 42        | R    | E    | 1                            | 20 A                       | RECEPTACLE ROOM 128, 127 |  |
|   | MEN 109                         | 20 A | 1    | R         | 43    | 1260 VA  |          |          | 44      |           | 1    |      | -SPACE ONLY-                 |                            |                          |  |
|   | RECEPTACLE CLASSROOM 130        |      | 1    |           | 45    |          | 720 VA   |          | 46      |           | 1    |      | -SPACE ONLY-                 |                            |                          |  |
|   | -SPACE ONLY-                    |      | 1    |           | 47    |          |          |          | 48      |           | 1    |      | -SPACE ONLY-                 |                            |                          |  |
|   | -SPACE ONLY-                    |      | 1    |           | 49    |          |          |          | 50      |           | 1    |      | -SPACE ONLY-                 |                            |                          |  |
|   | -SPACE ONLY-                    |      | 1    |           | 51    |          |          |          | 52      |           | 1    |      | -SPACE ONLY-                 |                            |                          |  |
|   | -SPARE-                         | 20 A | 1    |           | 53    |          |          | 0 VA     | 0 VA    | 54        |      | 1    | 20 A                         | -SPARE-                    |                          |  |
|   | -SPARE-                         | 20 A | 1    |           | 55    | 0 VA     | 0 VA     |          | 56      |           | 1    | 20 A | -SPARE-                      |                            |                          |  |
|   | -SPARE-                         | 20 A | 1    |           | 57    |          | 0 VA     | 0 VA     | 58      |           | 1    | 20 A | -SPARE-                      |                            |                          |  |
|   | -SPARE-                         | 20 A | 1    |           | 59    |          | 0 VA     | 0 VA     | 60      |           | 1    | 20 A | -SPARE-                      |                            |                          |  |
|   | -SPARE-                         | 20 A | 1    |           | 61    | 0 VA     | 0 VA     |          | 62      |           | 1    | 20 A | -SPARE-                      |                            |                          |  |
|   | -SPARE-                         | 20 A | 1    |           | 63    |          | 0 VA     | 0 VA     | 64      |           | 1    | 20 A | -SPARE-                      |                            |                          |  |
| <b>TOTAL CONNECTED LOAD PER PHASE (VA)</b>      |                                 |      |      |           |       | 14971 VA | 15518 VA | 14116 VA |         |           |      |      |                              |                            |                          |  |
| <b>TOTAL CONNECTED CURRENT PER PHASE (AMPS)</b> |                                 |      |      |           |       | 126 A    | 130 A    | 118 A    |         |           |      |      |                              |                            |                          |  |

| TYPE | LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS                            |
|------|---------------------|----------------|---------------|------------------|---|
| P    | Panel               | 0 VA           | 0.00%         | 0 VA             |   |
| R    | Receptacle          | 20340 VA       | 74.58%        | 15170 VA         | <b>Total Conn. Load: 44603 VA</b>       |
| L    | Lighting            | 6343 VA        | 125.00%       | 7929 VA          | <b>25% OF LARGEST MOTOR:</b>            |
| C    | Continuous          | 0 VA           | 0.00%         | 0 VA             | <b>Total Est. Demand: 41089 VA</b>      |
| E    | Equipment           | 17720 VA       | 100.00%       | 17720 VA         | <b>Total Conn. Current: 124 A</b>       |
| M    | Motor               | 200 VA         | 125.00%       | 250 VA           | <b>Total Est. Demand Current: 114 A</b> |
| K    | Kitchen             | 0 VA           | 0.00%         | 0 VA             |   |
| O    | Other               | 0 VA           | 0.00%         | 0 VA             |   |

### MECHANICAL EQUIPMENT SCHEDULE

| UNIT NAME | DESCRIPTION   | ELECTRICAL INPUT |      |       |       | FEEDER |     |              |           | STARTER / DISCONNECT / CONNECTION AT UNIT |      |              |                 | REMARKS |       |           |  |  |
|-----------|---------------|------------------|------|-------|-------|--------|-----|--------------|-----------|---|------|--------------|-----------------|---------|-------|-----------|--|--|
|           |               | LOAD             | TYPE | VOLTS | PHASE | AMPS   | QTY | CONDUIT SIZE | WIRE SIZE | EQPT GND                                  | NOTE | STARTER SIZE | DISCONNECT SIZE |         | POLES | ENCLOSURE |  |  |
| EF 1      | EXHAUST FAN   | 9.8              | FLA  | 120 V | 1     | 9.8 A  | 1   | 3/4"         | 12        | 12  | 12   | 1A           |                 |         |       |           |  |  |
| EF 2      | EXHAUST FAN   | 9.8              | FLA  | 120 V | 1     | 9.8 A  | 1   | 3/4"         | 2         | 12  | 12   | 1A           |                 |         |       |           |  |  |
| EF 3      | EXHAUST FAN   | 9.8              | FLA  | 120 V | 1     | 9.8 A  | 1   | 3/4"         | 2         | 12  | 12   | 1A           |                 |         |       |           |  |  |
| EF 4      | EXHAUST FAN   | 9.8              | FLA  | 120 V | 1     | 9.8 A  | 1   | 3/4"         | 2         | 12  | 12   | 1A           |                 |         |       |           |  |  |
| RP 1      | RECIRC PUMP   | 4.4              | FLA  | 120 V | 1     | 4.4 A  | 2   | 3/4"         | 2         | 12  | 12   | 1A           |                 |         |       |           |  | RP-1 HAS A TOTAL (2) UNITS WITHIN SCOPE OF PROJECT |
| RTU 01    | ROOF TOP UNIT | 30               | MCA  | 208 V | 3     | 30 A   | 1   | 3/4"         | 3         | 8   | 10   | 10A          |                 |         |       |           |  |  |
| RTU 02    | ROOF TOP UNIT | 30               | MCA  | 208 V | 3     | 30 A   | 1   | 3/4"         | 3         | 8   | 10   | 10A          |                 |         |       |           |  |  |
| RTU 03    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 04    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 05    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 06    | ROOF TOP UNIT | 30               | MCA  | 208 V | 3     | 30 A   | 1   | 3/4"         | 3         | 8   | 10   | 10A          |                 |         |       |           |  |  |
| RTU 07    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 08    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 09    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 10    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 11    | ROOF TOP UNIT | 21               | MCA  | 208 V | 3     | 21 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 12    | ROOF TOP UNIT | 26               | MCA  | 208 V | 3     | 26 A   | 1   | 3/4"         | 3         | 10  | 10   | 10A          |                 |         |       |           |  |  |
| RTU 15    | ROOF TOP UNIT | 30               | MCA  | 208 V | 3     | 30 A   | 1   | 3/4"         | 3         | 8   | 10   | 10A          |                 |         |       |           |  |  |
| RTU 16    | ROOF TOP UNIT | 30               | MCA  | 208 V | 3     | 30 A   | 1   | 3/4"         | 3         | 8   | 10   | 10A          |                 |         |       |           |  |  |
| WH 1      | WATER HEATER  | 24               | MCA  | 120 V | 1     | 24 A   | 2   | 3/4"         | 2         | 10  | 10   | 10A          |                 |         |       |           |  | WH-1 HAS A TOTAL (2) UNITS WITHIN SCOPE OF PROJECT |

**STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:**

- MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL.
- COMBINATION MAGNETIC STARTER / FUSED DISCONNECT.
- COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP).
- COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP).
- REDUCED VOLTAGE STARTER.
- COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT.
- COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP).
- NON-FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.

**GENERAL NOTES:**


- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLIED.
- ALL CONDUCTORS USED SHALL BE COPPER.
- ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
- ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

### FLOOR BOX SCHEDULE


| TYPE | DEVICE CAPACITY | CONDUIT OPENINGS | G1 | G2 | G3 | G4 | G5 | G6 | MANUFACTURER | CAT. # (OR APPROVED EQUAL) | COMMENTS |
|------|-----------------|------------------|----|----|----|----|----|----|--------------|----------------------------|----------|
| B1   | 6 GANG          |                  |    |    |    |    |    |    |              |                            |          |




ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t: 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP  
  
 7531217-2200  
 SCOTT A. HARDY  
 STATE OF UTAH  
 2024-01-05

CODE OFFICIAL STAMP  
  
 REVIEWED FOR  
 CODE COMPLIANCE  
 3/26/2024  
 BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHELL BUILDING REMODEL

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHELL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENVISION  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P: (801) 534-1130  
 F: (801) 534-1080  
 www.envisioneng.com

ENV-2023-220

| NO. | DATE     | DESCRIPTION |
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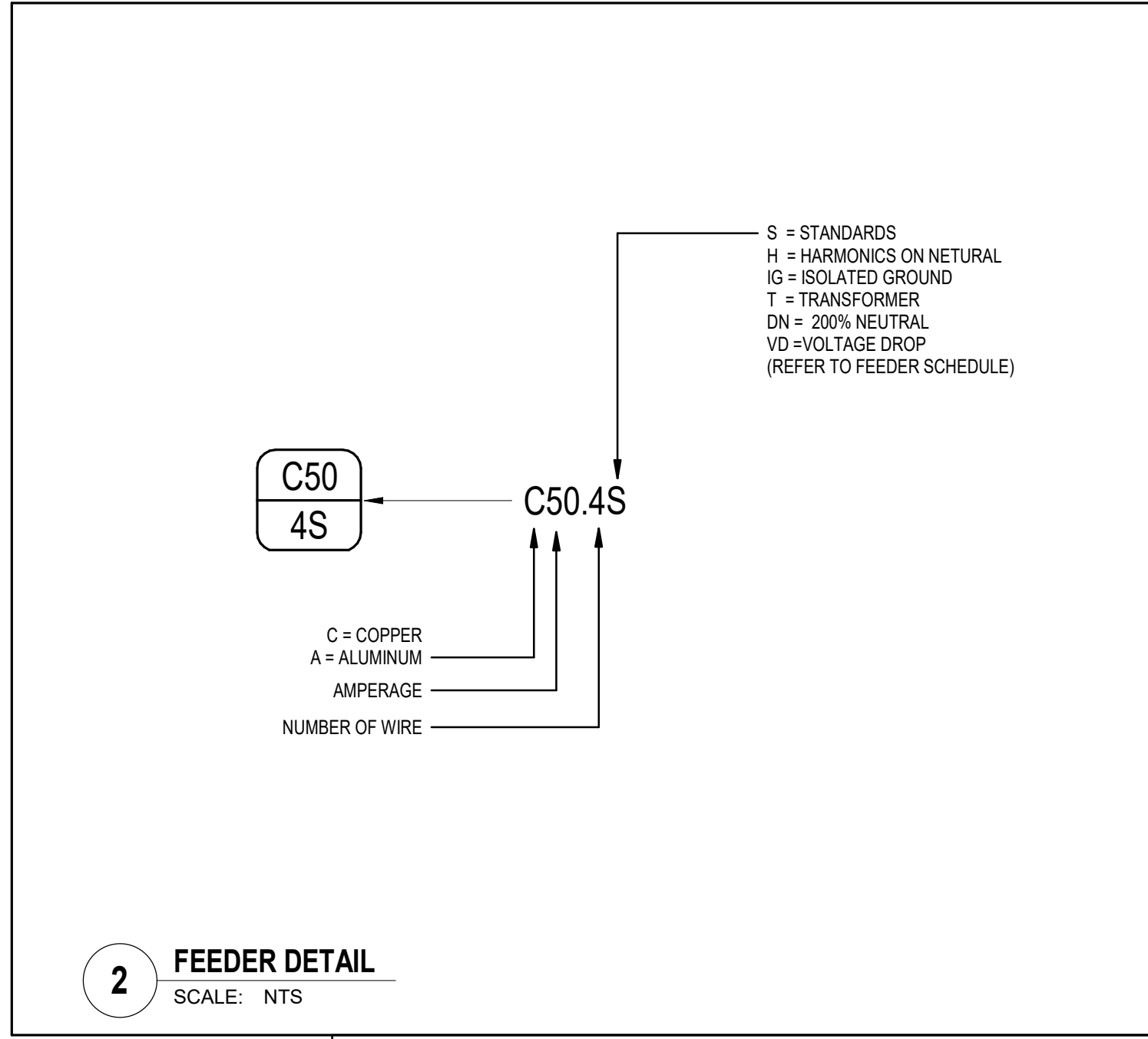
| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
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SHEET TITLE:  
**ONE-LINE  
 DIAGRAM -  
 POWER**

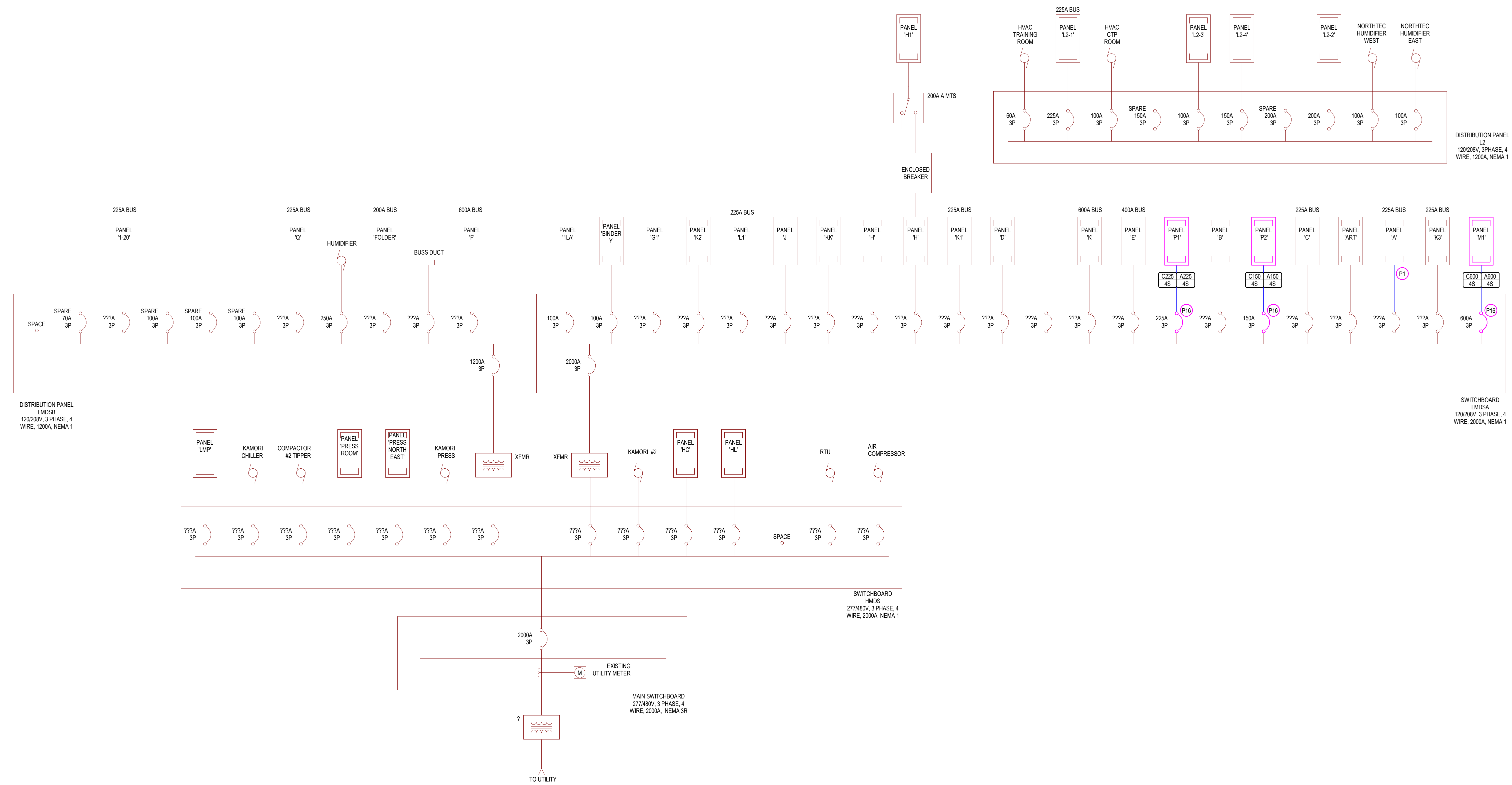
SHEET NUMBER:  
**EP701**

- GENERAL ONE-LINE NOTES:**
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE OWNER PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATING ACCORDINGLY. SUBMIT FAULT CURRENT CALCULATIONS WITH SHOP DRAWINGS SUBMITTAL.
  - PROVIDE FULL LENGTH VERTICAL BUSSING IN ALL SWITCHBOARDS, DISTRIBUTION PANELBOARDS, AND PANELBOARDS.
  - COORDINATE SPACE WITH ALL OTHER TRADES TO MAINTAIN ALL CODE-REQUIRED CLEARANCES.
  - EXISTING SERVICE AND DISTRIBUTION ARE ADEQUATE DUE TO EXISTING LOADS TO BE REMOVED BEING LARGER THAN NEW LOADS.
- FEEDER GENERAL NOTES:**
- CONTRACTOR SHALL REVIEW ONE-LINE DIAGRAM AND CONFIRM FEEDER WIRE SIZES. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID. IF DISCREPANCIES EXIST, CONTRACTOR SHALL PROVIDE CORRECT WIRE SIZE BASED ON ACTUAL BREAKER SIZE AND ANY VOLTAGE DROP ADJUSTMENTS. SEE NEC 210.10, 215.2, 250.112, AND 310.15.
  - ALL GROUNDING WIRES SHOWN IN FEEDER SCHEDULE ARE COPPER WIRES.
  - ALL SYSTEM BONDING JUMPER CONDUCTORS SHOWN ARE TO BE RUN IN EACH PARALLEL FEEDER SET.
- KEYED NOTES**
- P1 RELOCATED PANELBOARD 'A'; REROUTE ALL CONDUIT AND CABLING TO NEW LOCATION. REUSE EXISTING CONDUIT AND FEEDER. PROVIDE NEW CONDUIT AND NEC SIZED WIRING AS NEEDED TO NEW LOCATION. EXISTING BREAKER TO REMAIN.
- P16 NEW BREAKER IS TO MATCH EXISTING SWITCHBOARD MANUFACTURE. 'GE' NEW BREAKER IS TO MATCH EXISTING SWITCHBOARD AIC RATING AND ENSURE COMPATIBILITY WITH EXISTING EQUIPMENT.



**FEEDER SCHEDULE**

| FEEDER | TYPE | # OF SETS | CONDUIT DIAMETER | CONDUCTOR # | CONDUCTOR SIZE | EQ GND COND | ISOLATED GROUND | SYSTEM BONDING |
|--------|------|-----------|------------------|-------------|----------------|-------------|-----------------|----------------|
| A150   | 4S   | 1         | 2-1/2"           | 4           | 3/0            | 6           | -               | -              |
| A225   | 4S   | 1         | 3"               | 4           | 3/0            | 4           | -               | -              |
| A600   | 4S   | 3         | 2-1/2"           | 4           | 250            | 1           | -               | -              |
| C150   | 4S   | 1         | 2"               | 4           | 1/0            | 6           | -               | -              |
| C225   | 4S   | 1         | 2-1/2"           | 4           | 4/0            | 4           | -               | -              |
| C600   | 4S   | 2         | 3"               | 4           | 350            | 1           | -               | -              |



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**BID ALTERNATE #1:**  
 PROVIDE LINE ITEM PRICING FOR THE FOLLOWING SCOPE OF WORK:

**CLASSROOM 130**  
 1. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.

**CLASSROOM 142**  
 2. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.

**TELECOMMUNICATION GENERAL NOTES:**

- NO EXPOSED COMMUNICATIONS CONDUIT ALLOWED IN BUILDING UNLESS APPROVED IN ADVANCED BY OWNER/ARCHITECT.
- ALL TELECOMMUNICATIONS OUTLETS SHALL BE LABELED IN ACCORDANCE WITH TIA/EIA 608-B. LABELING SHALL BE PROVIDED AT BOTH THE OUTLET AND THE TERMINATING END IN THE COMMUNICATIONS ROOM.
- ALL DATA OUTLETS SHALL COMPLY WITH TIA/EIA 568 1-D, AND TIA/EIA 569-D, AND BE WIRED IN ACCORDANCE WITH TIS/EIA 568-C.2.
- ALL CONDUIT FOR TELECOMMUNICATIONS PURPOSES SHALL BE EMT AND SHALL BE SIZED PER ANS/TIA/EIA 569-D. MINIMUM CONDUIT SIZE FOR ANY TELECOMMUNICATIONS CABLE SHALL BE 1". CONDUIT SHALL NOT BE FILLED TO GREATER THAN 50% OF ITS MAXIMUM CABLE CARRYING CAPACITY.
- THE DIVISION 27 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, CONDUIT, AND CABLE TRAY RUNS.
- DATA/COMMUNICATIONS CONDUITS TO BE RAN SUCH THAT MAXIMUM DATA CABLE LENGTH (NOT CONDUIT LENGTH) IS NOT TO EXCEED 90 METERS BETWEEN DATA OUTLET AND NEAREST DATA ROOM.
- EXISTING DATA/COMMUNICATION CABLEING IN EXISTING TO REMAIN AREAS ARE TO BE PROTECTED AND RECONNECTED TO NEW DATA RACKS. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH OWNER.
- THERE ARE THREE DIFFERENT AND SEPERATE NETWORKS/RACKS TO BE PROVIDED:
  - BUSINESS
  - SCHOOL
  - AUXILIARY

COORDINATE WITH OWNER PRIOR TO INSTALL TO CONFIRM CABLEING AND CONNECTIONS AND DATA REQUIREMENTS.

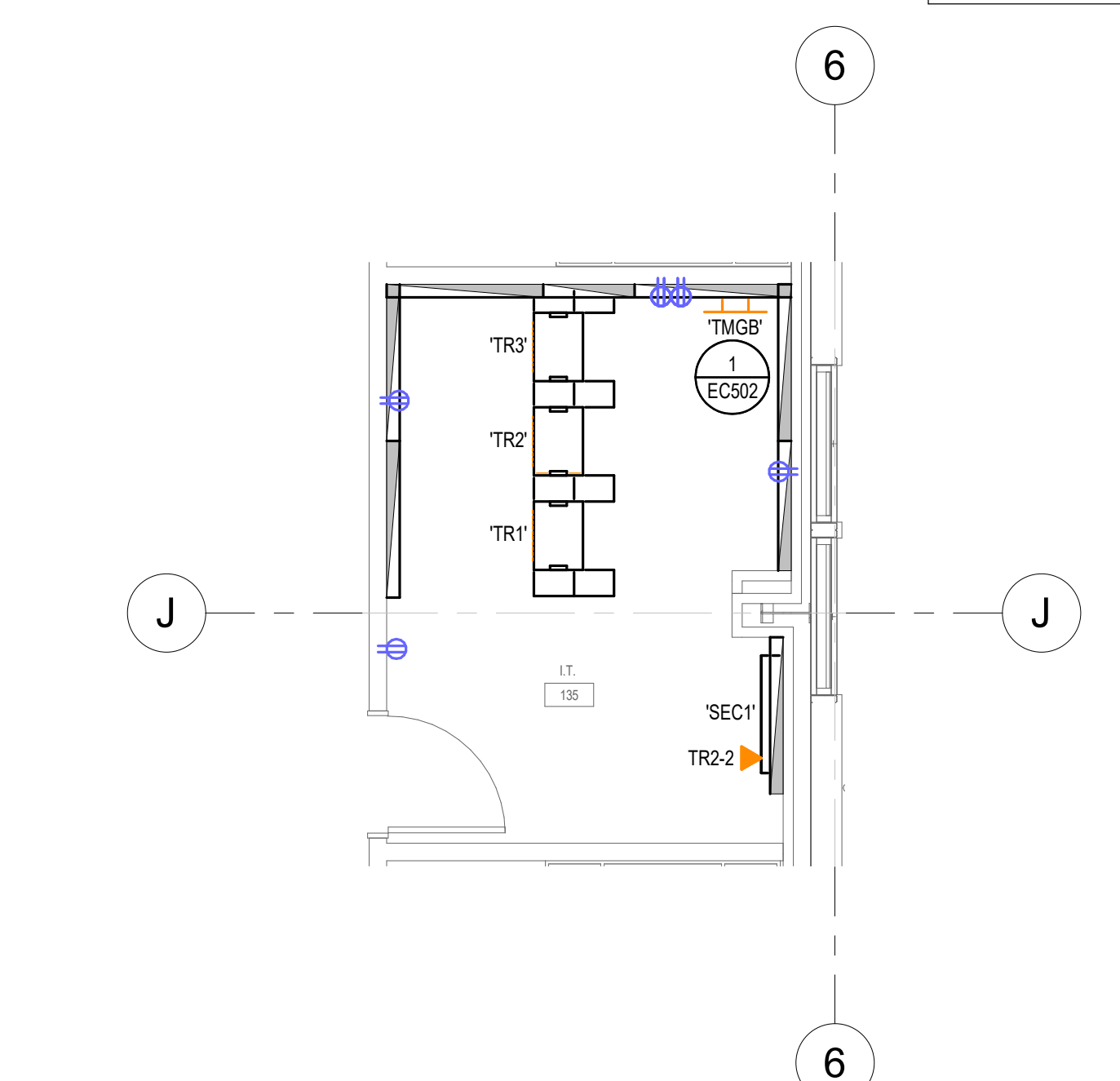
**KEYED NOTES**

C1 FURNISH AND INSTALL BACK BOXES AND CONDUIT WITH PULL STRING TO CABLE TRAY FOR FUTURE DATA CONNECTION LOCATIONS. PROVIDE BLANK FACE PLATE COVERS TO COVER BACK BOXES.

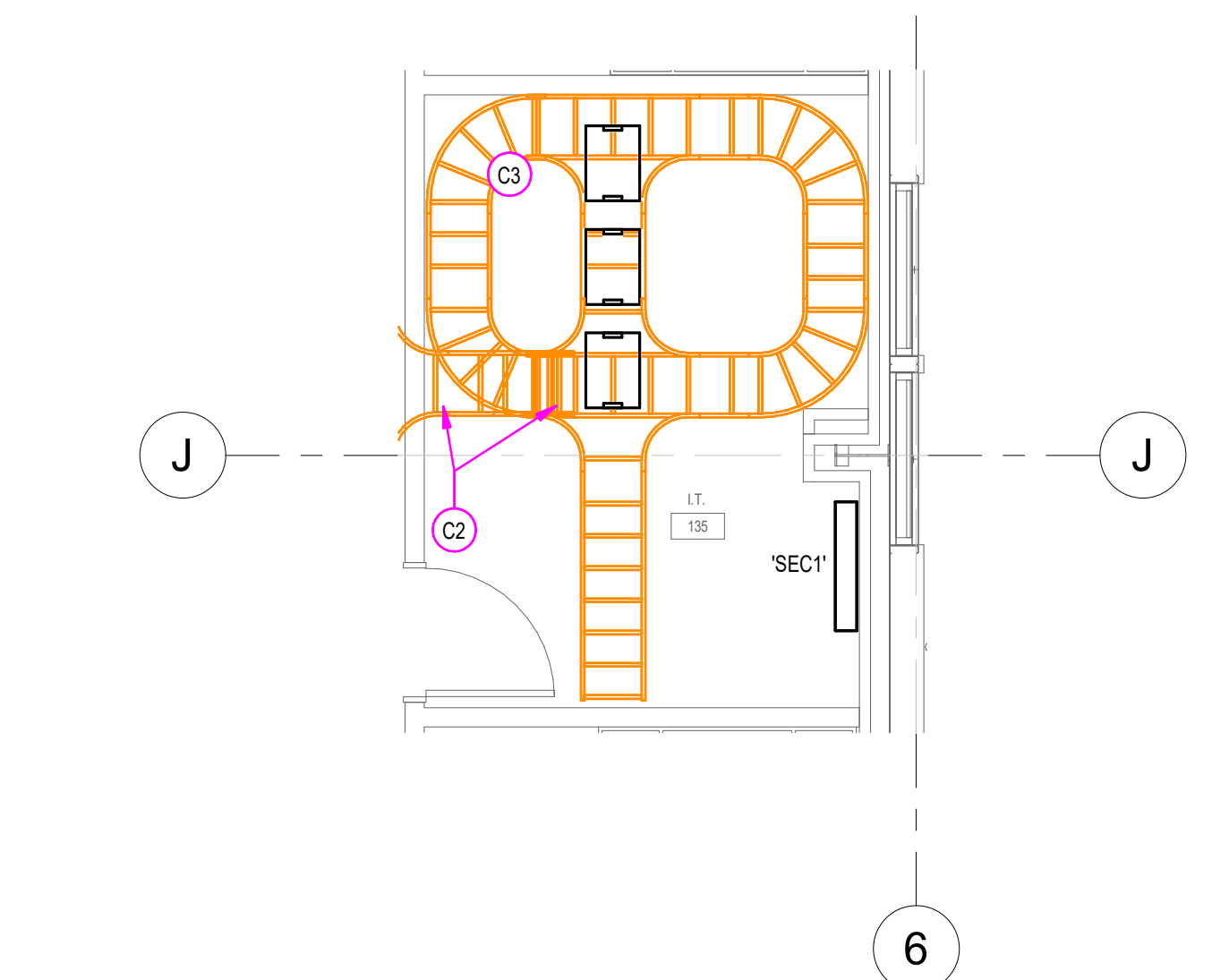
C2 CABLE TRAY TO WATERFALL DOWN TO CABLE RUNWAY IN ROOM AND DOWN TO DATA RACK.

C3 18" CABLE RUNWAY MOUNTED ABOVE RACKS AND ALONG WALLS AS INDICATED. PROVIDE VERTICAL RUNWAY TO CONNECT FLOOR CONDUITS TO UPPER RUNWAY SYSTEM.

P7 PROVIDE FOURPLEX RECEPTACLE IN AV CEILING ENCLOSURE. REFER TO AV DRAWINGS FOR EXACT LOCATION.

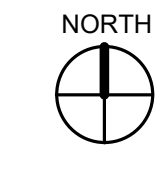


**2 ENLARGED IT ROOM 135**  
 1/4" = 1'-0"



**3 ENLARGED IT ROOM 135 - CABLE TRAY**  
 1/4" = 1'-0"

**1 LEVEL 1 - COMMUNICATION - AREA "A"**  
 1/8" = 1'-0"



ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 T 801-298-1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:  
**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1190  
 F (801) 534-1080  
 www.envisioneng.com

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OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
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SHEET TITLE:  
**LEVEL 1 - COMMUNICATION - AREA "A"**

SHEET NUMBER:  
**EC101**

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**BID ALTERNATE #1:**  
PROVIDE LINE ITEM PRICING FOR THE FOLLOWING SCOPE OF WORK:

**CLASSROOM 130**  
1. SAW CUT FLOOR IN OUTLINE SHOWN. FURNISH AND INSTALL FLOOR BOX WITH (1) 1" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV. CONDUIT SHALL ROUTE FROM BACKBOX BEHIND THE TV TO FLOOR BOX. WHERE TWO OR THREE FLOOR BOXES ARE FURNISHED, PROVIDE POWER (1"), DATA (1"), AND AV (1-1/2") CONDUITS BETWEEN FLOOR BOXES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DAMAGED FLOOR. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.

**CLASSROOM 142**  
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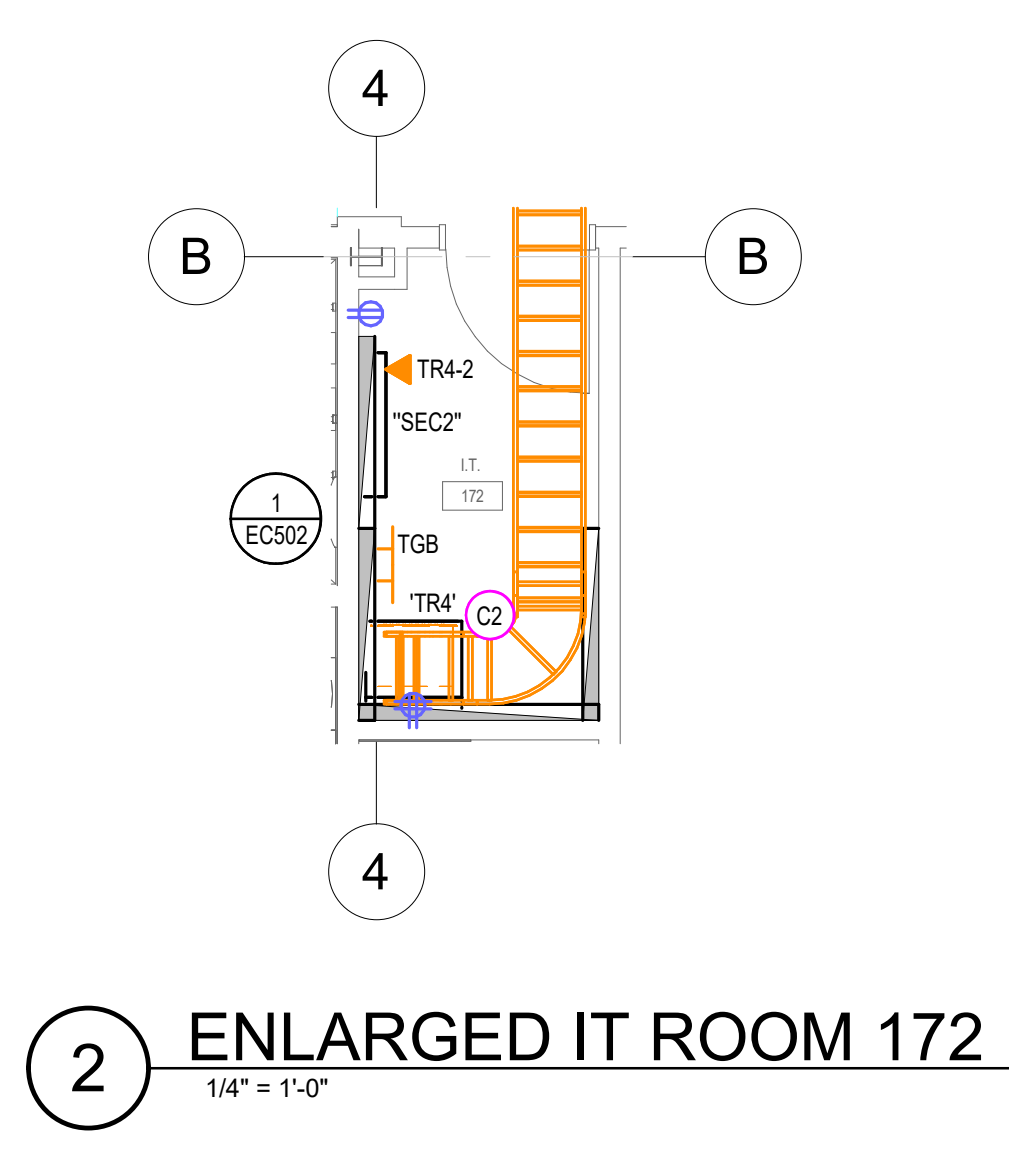
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**KEYED NOTES**

C1 FURNISH AND INSTALL BACK BOXES AND CONDUIT WITH PULL STRING TO CABLE TRAY FOR FUTURE DATA CONNECTION LOCATIONS. PROVIDE BLANK FACE PLATE COVERS TO COVER BACK BOXES.

C2 CABLE TRAY TO WATERFALL DOWN TO CABLE RUNWAY IN ROOM AND DOWN TO DATA RACK.



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**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
T: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

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940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**ENVISION**  
ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P: (801) 534-1130  
F: (801) 534-1180  
www.envisioneng.com

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OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: MH  
CHECKED BY: SH  
DESIGNED BY: MH  
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SHEET TITLE:  
**LEVEL 1 - COMMUNICATION - AREA "B"**

SHEET NUMBER:  
**EC102**

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| TELECOM CABLE SCHEDULE |                      |               |        |              | TELECOM CABLE SCHEDULE |                   |               |        |              |      |
|------------------------|----------------------|---------------|--------|--------------|------------------------|-------------------|---------------|--------|--------------|------|
| CONNECTION TYPE        | ROOM NAME            | CABLE QTY     | LENGTH | TOTAL LENGTH | CONNECTION TYPE        | ROOM NAME         | CABLE QTY     | LENGTH | TOTAL LENGTH |      |
| TR1                    | Student Workstations | CLASSROOM 123 | 4      | 30'          | 161'                   | Workstations      | RECEPTION 103 | 2      | 126'         | 272' |
| Student Workstations   | CLASSROOM 123        | 4             | 35'    | 181'         | TR2                    | TR2 19            | 31            | 118'   | 2812'        |      |
| Student Workstations   | CLASSROOM 123        | 4             | 40'    | 201'         | TR3                    |                   |               |        |              |      |
| Student Workstations   | CLASSROOM 123        | 2             | 61'    | 141'         | PROJECTOR              | CLASSROOM 130     | 4             | 74'    | 336'         |      |
| Student Workstations   | CLASSROOM 123        | 2             | 56'    | 131'         |                        |                   |               |        |              |      |
| Student Workstations   | CLASSROOM 130        | 1             | 103'   | 113'         |                        |                   |               |        |              |      |
| TV                     | CLASSROOM 123        | 2             | 54'    | 128'         | TV                     | CONF 119          | 2             | 121'   | 262'         |      |
|                        |                      |               |        |              | TV                     | CONF 120          | 2             | 108'   | 236'         |      |
| WAP                    | WAITING 102          | 1             | 102'   | 112'         | TR3                    | WAITING 102       | 2             | 127'   | 275'         |      |
| WAP                    | CORRIDOR 118         | 1             | 21'    | 31'          | TR3                    |                   |               |        |              |      |
| WAP                    | CORRIDOR 125         | 1             | 89'    | 99'          | TR4                    |                   |               |        |              |      |
| WAP                    | CORRIDOR 118         | 1             | 67'    | 77'          | FLOORBOX               | CONF MTG 143      | 2             | 56'    | 133'         |      |
| TR1: 11                |                      | 23            | 87'    | 1376'        | FLOORBOX               | CONF MTG 143      | 2             | 67'    | 153'         |      |
|                        |                      |               |        |              | FLOORBOX               | CONF 144          | 2             | 53'    | 126'         |      |
| TR2                    |                      |               |        |              | FLOORBOX               | CONF 144          | 2             | 63'    | 146'         |      |
|                        |                      |               |        |              | FLOORBOX               | CLASSROOM 142     | 2             | 99'    | 217'         |      |
|                        |                      |               |        |              | FLOORBOX               | CLASSROOM 142     | 2             | 90'    | 200'         |      |
| FLOORBOX               | CONF 119             | 2             | 116'   | 252'         | FLOORBOX               | CLASSROOM 142     | 2             | 82'    | 184'         |      |
| FLOORBOX               | CONF 120             | 2             | 103'   | 227'         | FLOORBOX               | CONF 155          | 2             | 30'    | 80'          |      |
| Office Appliances      | COPY 104             | 2             | 132'   | 284'         | Office Appliances      | WORK RM 161       | 2             | 64'    | 147'         |      |
| Security Panel         | IT 135               | 2             | 26'    | 72'          | PROJECTOR              | CLASSROOM 142     | 4             | 79'    | 357'         |      |
| Student Workstations   | CLASSROOM 122        |               | 66'    |              | Security Panel         | ELEC 162          | 2             | 50'    | 121'         |      |
| TV                     | CLASSROOM 121        | 2             | 67'    | 154'         | Security Panel         | IT 172            | 2             | 21'    | 62'          |      |
| WAP                    | CORRIDOR 105         | 1             | 189'   | 199'         | Security Panel         | CORRIDOR 105      | 2             | 94'    | 206'         |      |
| Workstations           | OFFICE 141           | 2             | 99'    | 218'         | Student Workstations   | CLASSROOM 142     | 1             | 115'   | 125'         |      |
| Workstations           | OFFICE 140           | 2             | 82'    | 184'         | TV                     | CONF / MTG 144    | 2             | 49'    | 107'         |      |
| Workstations           | OFFICE 139           | 2             | 70'    | 159'         | TV                     | CONF / MTG 143    | 2             | 43'    | 107'         |      |
| Workstations           | OFFICE 138           | 2             | 55'    | 130'         | TV                     | CONF 155          | 2             | 35'    | 90'          |      |
| Workstations           | OFFICE 137           | 2             | 48'    | 116'         | TV                     | LOBBY WAITING 157 | 2             | 33'    | 85'          |      |
| Workstations           | OFFICE 136           | 2             | 30'    | 80'          | WAP                    | CORRIDOR 145      | 1             | 61'    | 71'          |      |
| Workstations           | OFFICE 134           | 2             | 37'    | 95'          | WAP                    | CORRIDOR 171      | 1             | 45'    | 55'          |      |
| Workstations           | OFFICE 133           | 2             | 50'    | 119'         | WAP                    | CORRIDOR 154      | 1             | 32'    | 42'          |      |
|                        |                      |               |        |              | Workstations           | OFFICE 160        | 2             | 74'    | 168'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 159        | 2             | 74'    | 168'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 153        | 2             | 52'    | 123'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 152        | 2             | 54'    | 127'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 151        | 2             | 68'    | 156'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 150        | 2             | 69'    | 158'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 149        | 2             | 57'    | 135'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 148        | 2             | 74'    | 168'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 147        | 2             | 82'    | 184'         |      |
|                        |                      |               |        |              | Workstations           | OFFICE 146        | 2             | 101'   | 227'         |      |
|                        |                      |               |        |              | TR4                    | TR4 31            | 60            |        | 4417'        |      |
|                        |                      |               |        |              | GRAND TOTAL            |                   | 124           |        | 9714'        |      |

| TR1-TR4 RACKS - EQUIPMENT LIST |                              |                    |                    |             |
|--------------------------------|------------------------------|--------------------|--------------------|-------------|
| RACK                           | DESCRIPTION                  | MANUFACTURER       | CATALOG NUMBER     | PROVIDED BY |
| TR1                            | 1U 48 PORT CAT6A PATCH PANEL | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR1                            | 1U 48 PORT SWITCH            | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR1                            | 1U 110 BLOCK                 | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR1                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR1                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR1                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR1                            | 1U COMPLEX FIBER LIU         | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR1                            | POWER DISTRIBUTION PDU       | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR2                            | 1U 48 PORT CAT6A PATCH PANEL | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR2                            | 1U 48 PORT SWITCH            | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR2                            | 1U 110 BLOCK                 | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR2                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR2                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR2                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR2                            | 1U COMPLEX FIBER LIU         | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR2                            | POWER DISTRIBUTION PDU       | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR3                            | 1U 48 PORT CAT6A PATCH PANEL | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR3                            | 1U 48 PORT SWITCH            | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR3                            | 1U 110 BLOCK                 | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR3                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR3                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR3                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR3                            | 1U COMPLEX FIBER LIU         | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR3                            | POWER DISTRIBUTION PDU       | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR4                            | 1U 48 PORT CAT6A PATCH PANEL | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U 48 PORT CAT6A PATCH PANEL | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U 48 PORT CAT6A PATCH PANEL | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U 48 PORT SWITCH            | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR4                            | 1U 48 PORT SWITCH            | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR4                            | 1U 48 PORT SWITCH            | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR4                            | 1U 110 BLOCK                 | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U 110 BLOCK                 | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U 110 BLOCK                 | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U CABLE MANAGEMENT          | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U COMPLEX FIBER LIU         | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U COMPLEX FIBER LIU         | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | 1U COMPLEX FIBER LIU         | SEE SPECIFICATIONS | SEE SPECIFICATIONS | CONTRACTOR  |
| TR4                            | POWER DISTRIBUTION PDU       | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR4                            | POWER DISTRIBUTION PDU       | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |
| TR4                            | POWER DISTRIBUTION PDU       | SEE SPECIFICATIONS | SEE SPECIFICATIONS | OWNER       |

**TELECOMMUNICATION GENERAL NOTES:**

- NO EXPOSED COMMUNICATIONS CONDUIT ALLOWED IN BUILDING UNLESS APPROVED IN ADVANCED BY OWNER/ARCHITECT.
- ALL TELECOMMUNICATIONS OUTLETS SHALL BE LABELED IN ACCORDANCE WITH TIA/EIA 606-B. LABELING SHALL BE PROVIDED AT BOTH THE OUTLET AND THE TERMINATING END IN THE COMMUNICATIONS ROOM.
- ALL DATA OUTLETS SHALL COMPLY WITH TIA/EIA 568 1-D, AND TIA/EIA 569-D, AND BE WIRED IN ACCORDANCE WITH TIA/EIA 568-C.2.
- ALL CONDUIT FOR TELECOMMUNICATIONS PURPOSES SHALL BE EMT AND SHALL BE SIZED PER ANSI/TIA/EIA 569-D. MINIMUM CONDUIT SIZE FOR ANY TELECOMMUNICATIONS CABLE SHALL BE 1". CONDUIT SHALL NOT BE FILLED TO GREATER THAN 50% OF ITS MAXIMUM CABLE CARRYING CAPACITY.
- THE DIVISION 27 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, CONDUIT, AND CABLE TRAY RUNS.
- DATA/COMMUNICATION CONDUITS TO BE RAN SUCH THAT MAXIMUM DATA CABLING LENGTH (NOT CONDUIT LENGTH) IS NOT TO EXCEED 90 METERS BETWEEN DATA OUTLET AND NEAREST DATA ROOM.
- EXISTING DATA/COMMUNICATION CABLING IN EXISTING TO REMAIN AREAS ARE TO BE PROTECTED AND RECONNECTED TO NEW DATA RACKS. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH OWNER.
- THERE ARE THREE DIFFERENT AND SEPERATE NETWORKS/RACKS TO BE PROVIDED:
  - BUSINESS
  - SCHOOL
  - AUXILIARY
 COORDINATE WITH OWNER PRIOR TO INSTALL TO CONFIRM CABLING AND CONNECTIONS AND DATA REQUIREMENTS.

**GENERAL NOTES:**

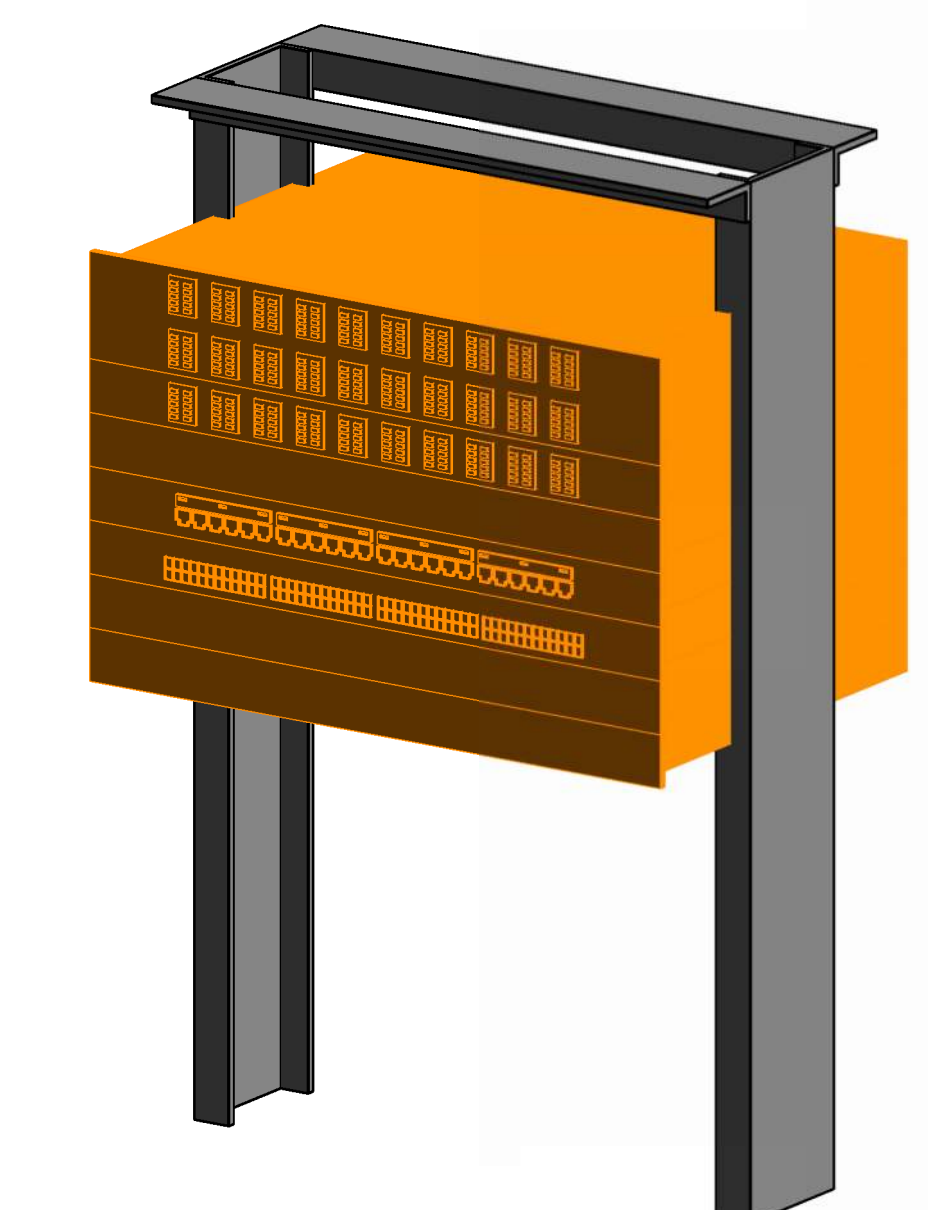
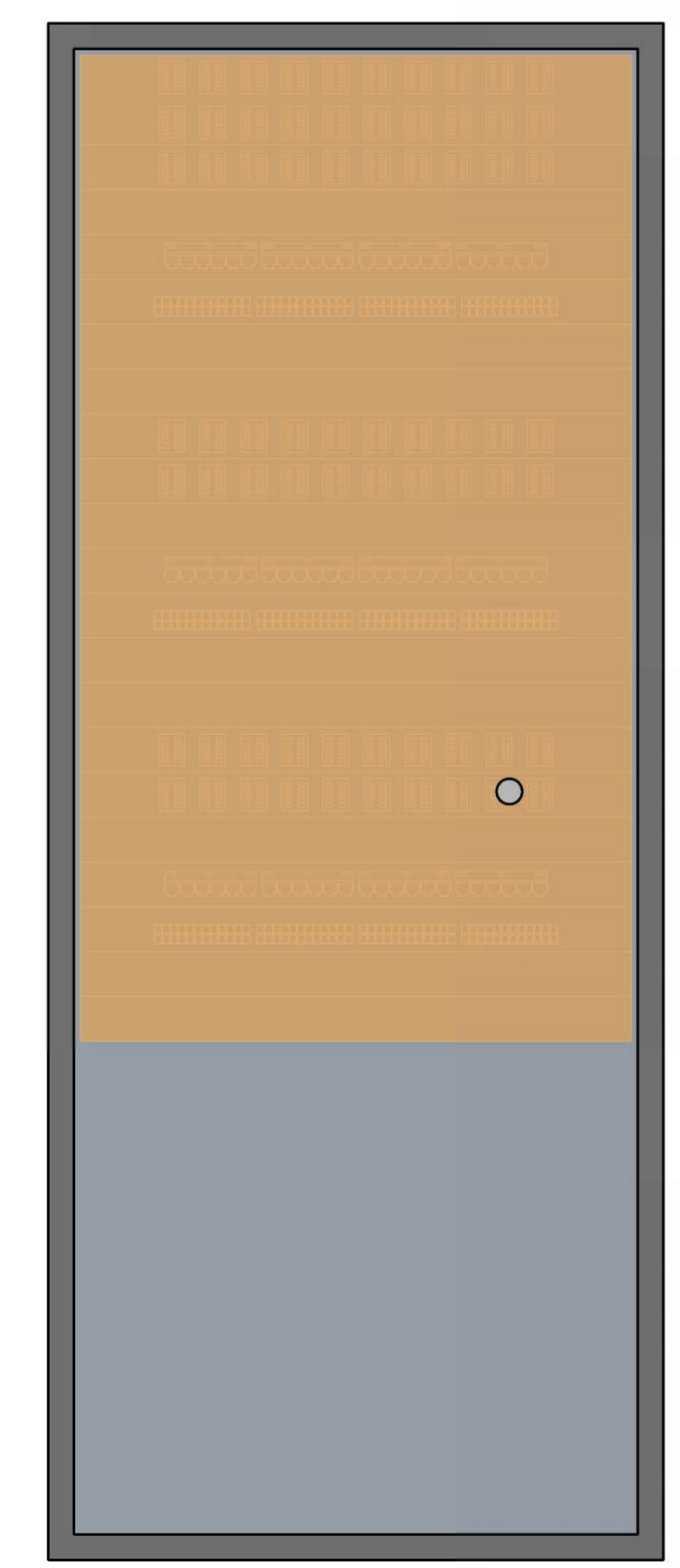
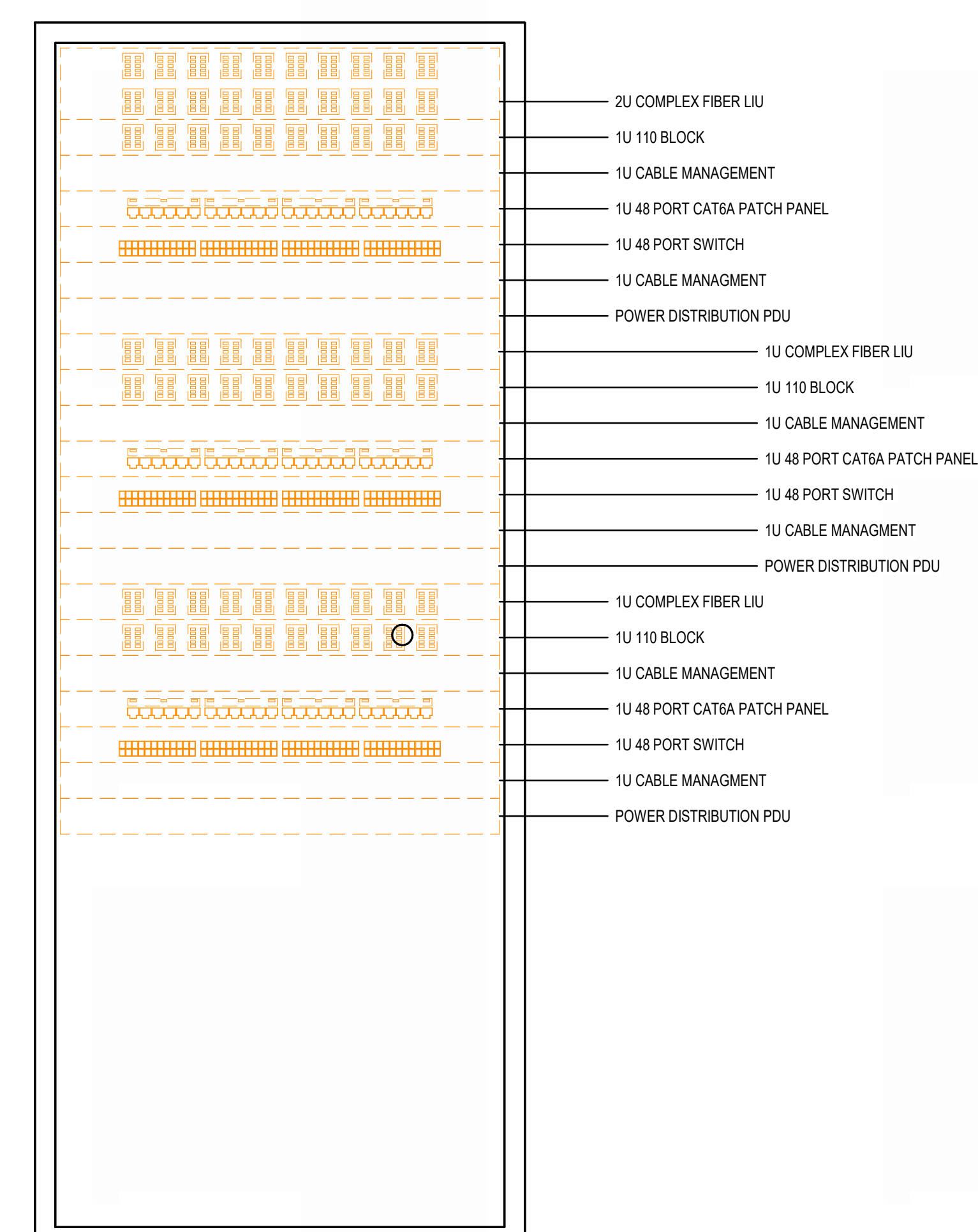
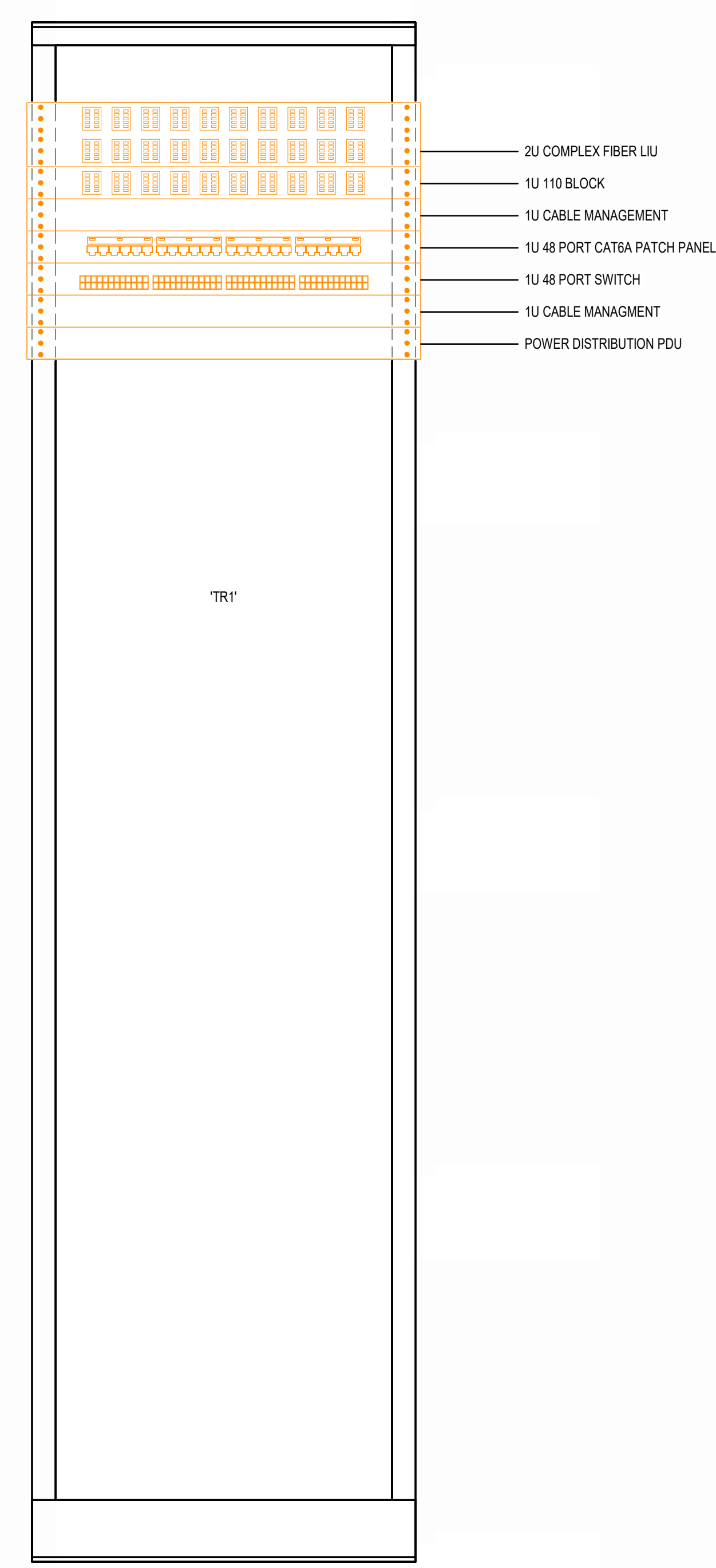
- PROVIDE 48 PORT PATCH PANELS AS REQUIRED PLUS 25% SPARE CAPACITY FOR FUTURE.
- PROVIDE SURGE PROTECTION FOR CABLE QUANTITY AS REQUIRED FOR ALL COPPER CABLING ENTERING BUILDING.
- ALL EQUIPMENT, CABINETS WIRE MANAGEMENT, ETC. IS PROVIDED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- PROVIDE TALLER WALL MOUNTED CABINET AS NECESSARY FOR REMOTE TRS BASED UPON TOTAL RACK UNITS (RU) SPACE REQUIRED. LIU = LIGHT INTERFACE UNIT.

**GENERAL TELECOM CABLE SCHEDULE NOTES:**

- TELECOM CABLE DROP SCHEDULES AND SUMMARIES ARE SHOWN FOR REFERENCE ONLY AND NOT TO BE USED FOR BIDDING PURPOSES OR TAKE-OFFS. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE ALL CABLING REQUIREMENTS AND SHALL PREPARE THEIR OWN SET OF QUANTITIES, LENGTHS, ETC. TO MAKE SURE THAT A COMPLETE TELECOMMUNICATION SYSTEM IS PROVIDED MEETING ALL REQUIREMENTS.
- COUNTS AND LENGTHS ARE ROUGH APPROXIMATIONS ONLY AND DO NOT INCLUDE ANY EXCESS/WASTE CABLE APPROXIMATIONS.

**KEYED NOTES**

| TELECOM CABLE SUMMARY SCHEDULE |           |                 |
|--------------------------------|-----------|-----------------|
| TELECOM RACK                   | CABLE QTY | TOTAL LENGTH    |
| TR1                            | 23        | 1606' - 6"      |
| TR2                            | 31        | 3121' - 8"      |
| TR3                            | 10        | 1208' - 10 1/4" |
| TR4                            | 60        | 5077' - 1 3/4"  |
| TR4 TOTAL                      | 124       | 10954' - 1 3/4" |



1 TR1-TR3 TYPICAL ELEVATION  
1:6

2 TR4 ELEVATION  
1:6

3 TR4 ISOMETRIC

4 TR1-TR3 TYPICAL ISOMETRIC

ARCHITECTS INFORMATION

SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t 801.298.1366  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

2024-01-05

CODE OFFICIAL STAMP

PROJECT NAME

BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISSION ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P (801) 534-1130  
F (801) 534-1080  
www.envisioneng.com

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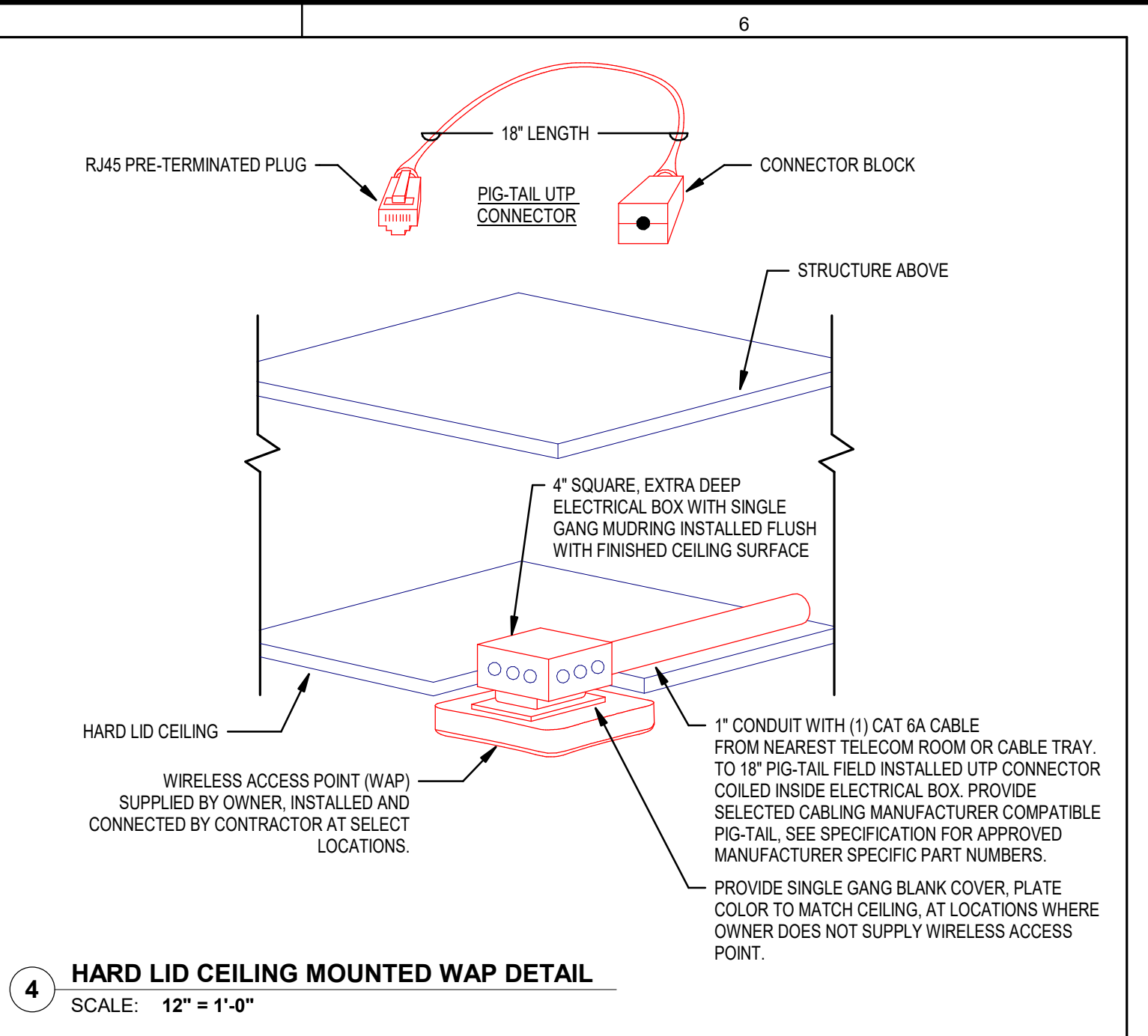
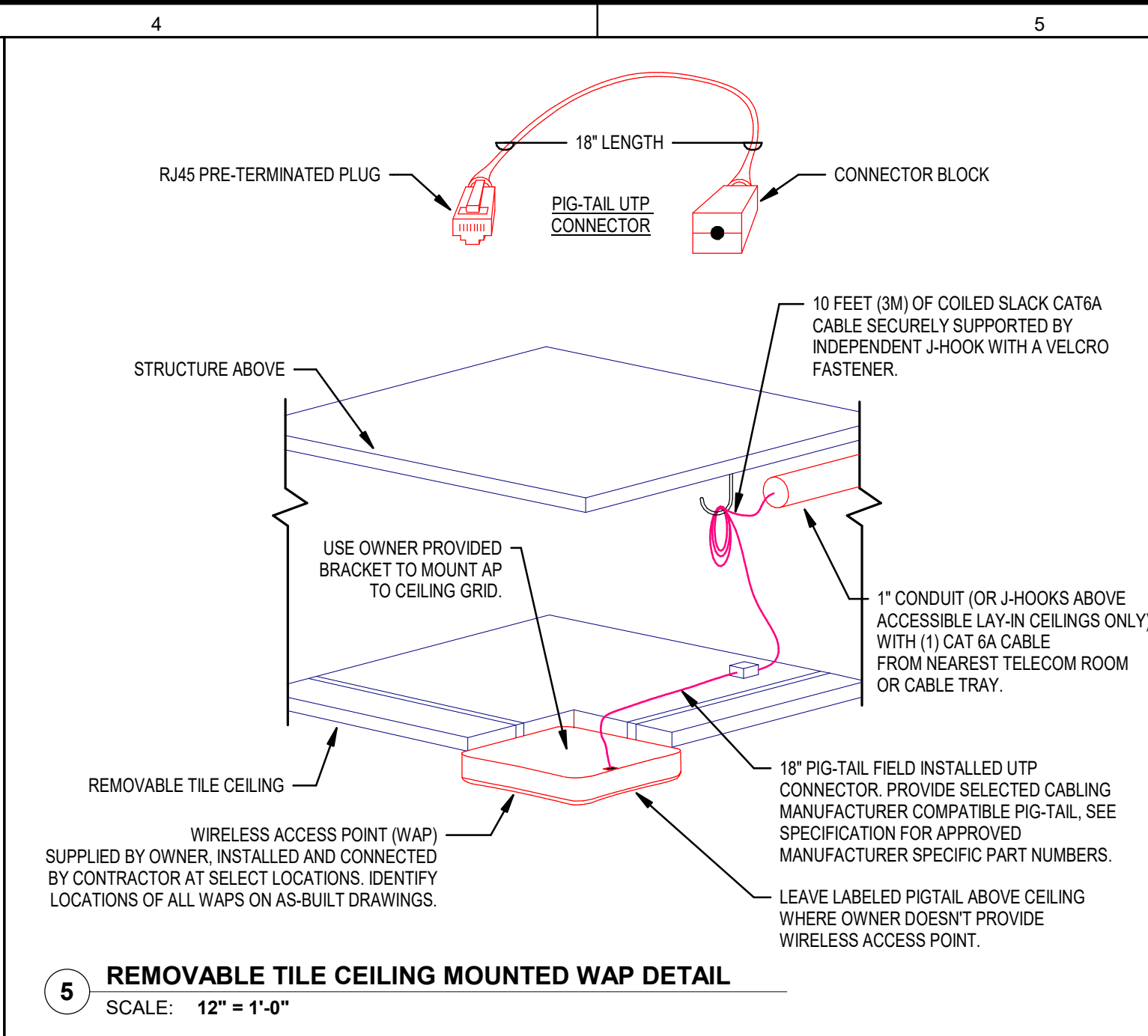
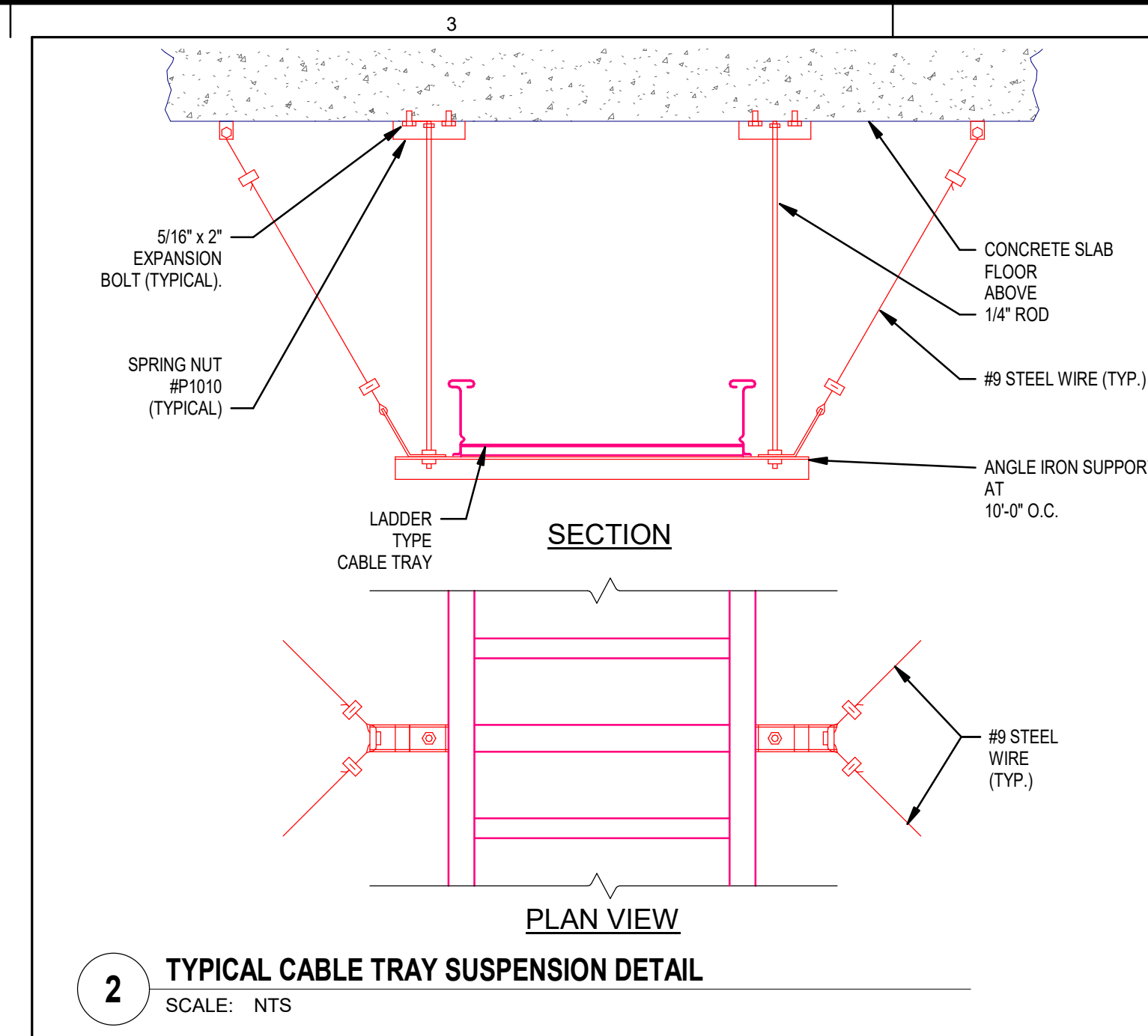
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RACK DETAILS AND CABLE SCHEDULES

SHEET NUMBER

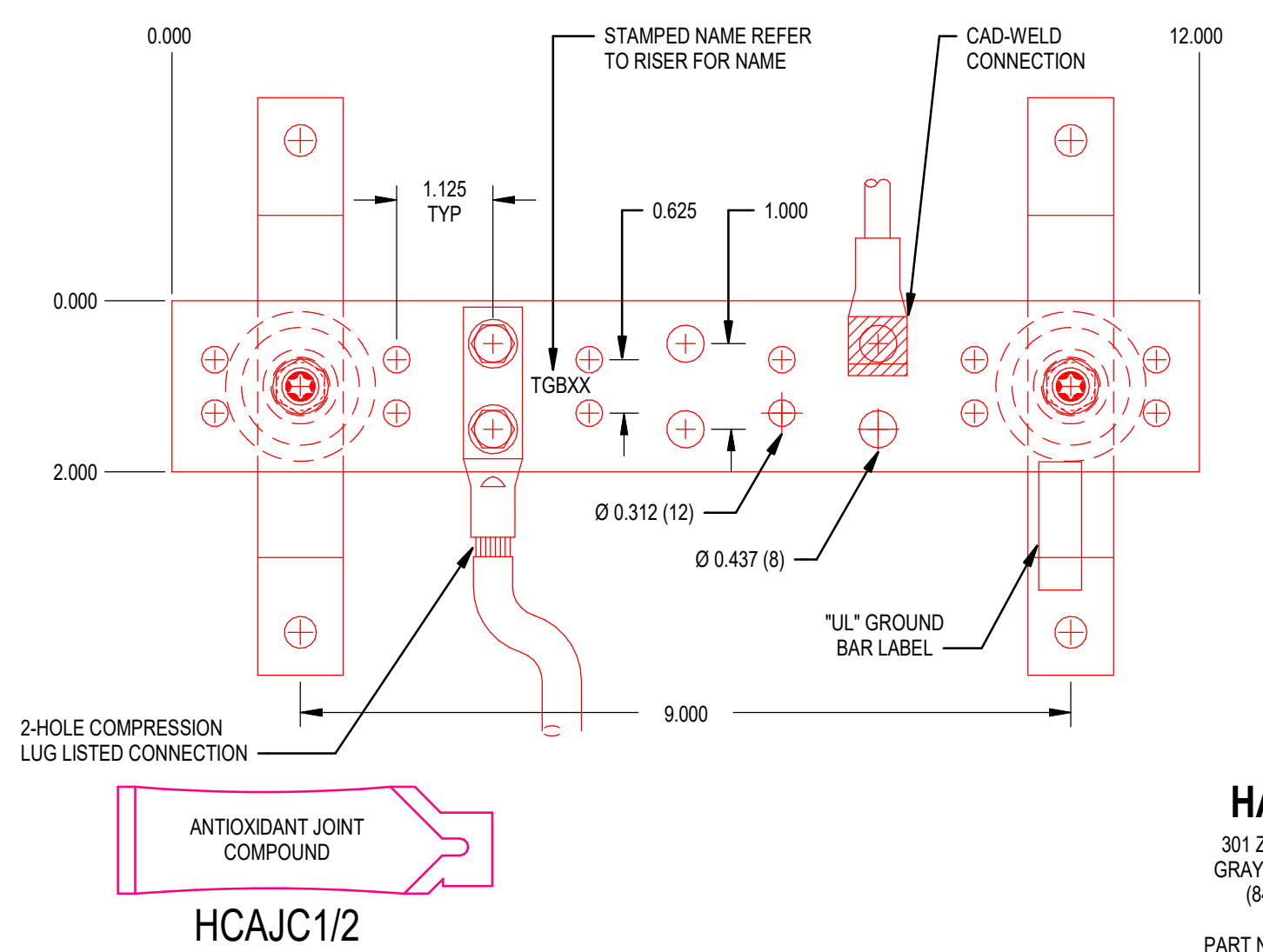
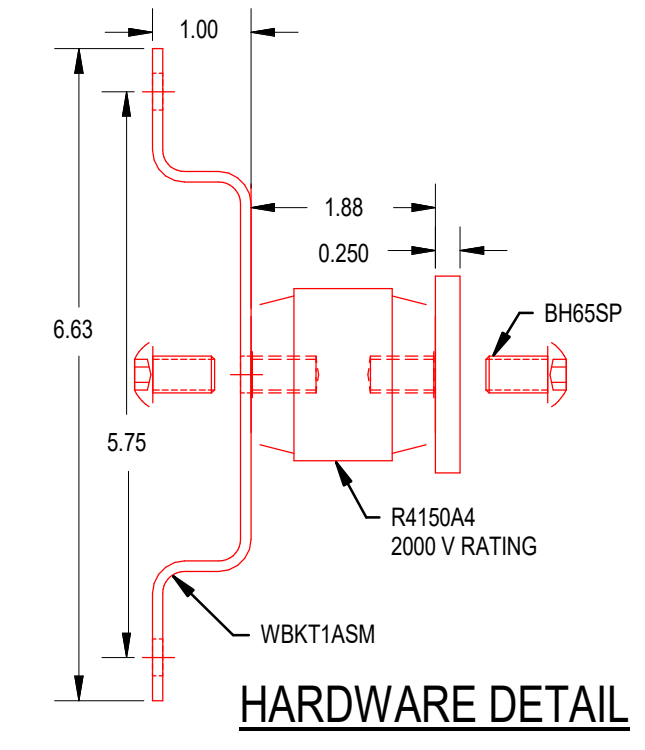
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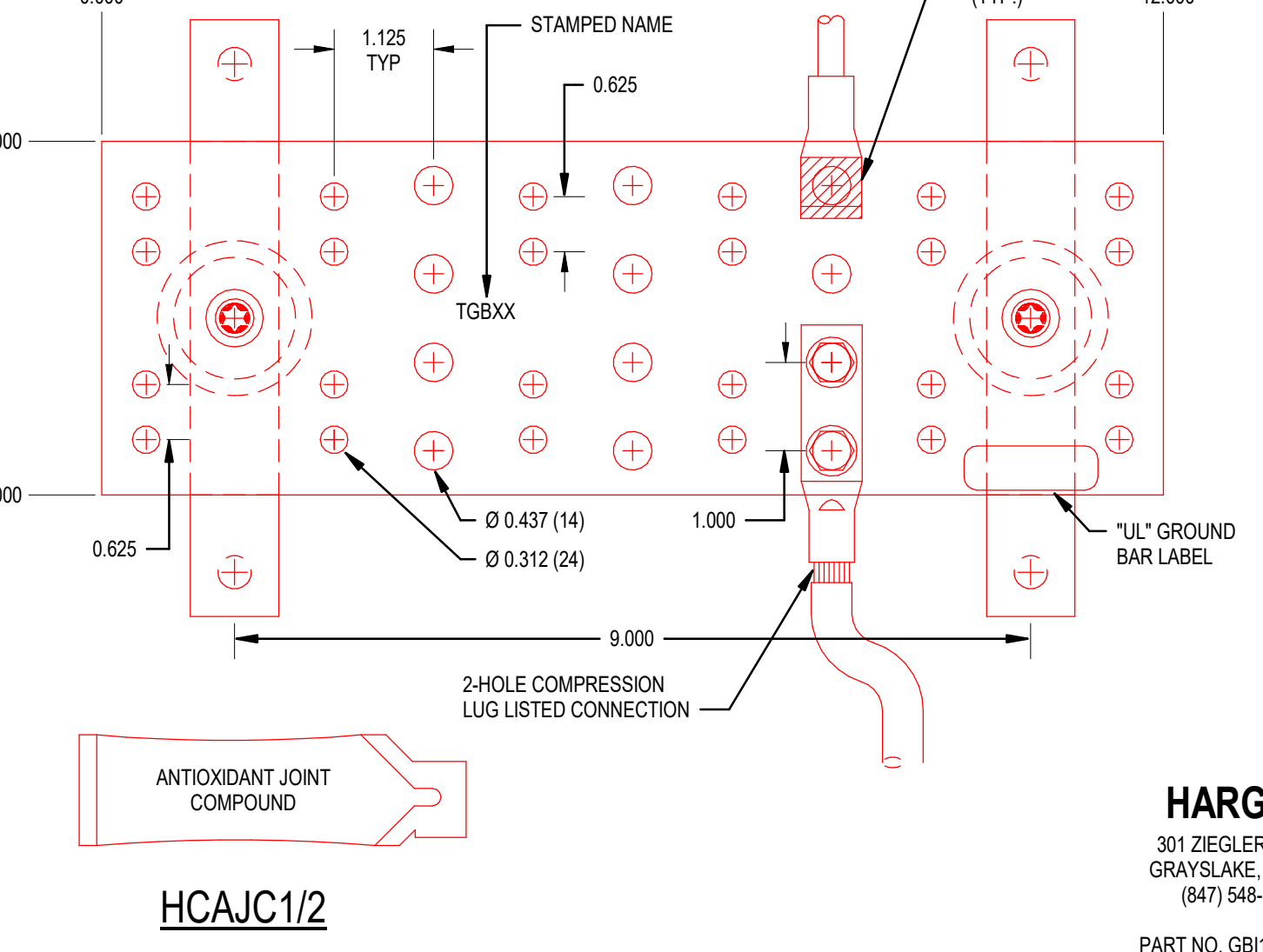
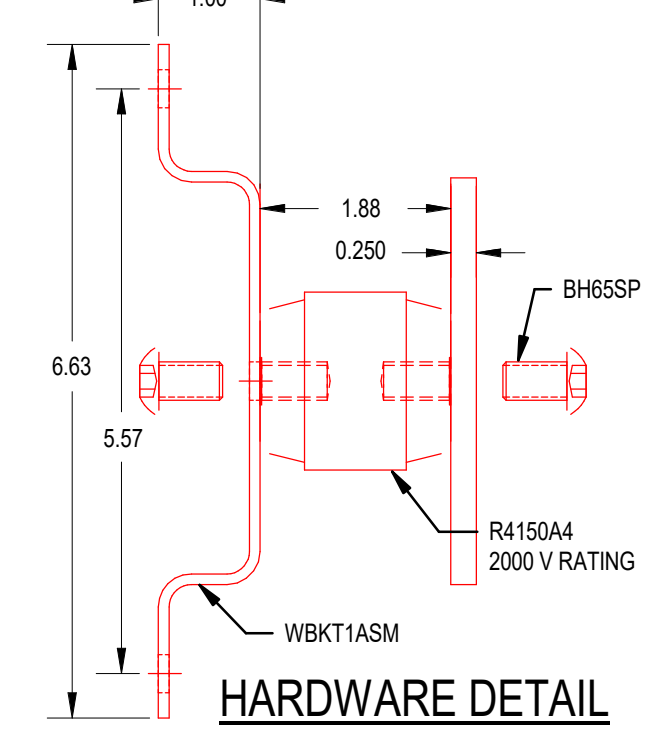
- SUPPORT FROM WALL 12 INCHES ABOVE FINISHED GRADE, UNLESS NOTED OTHERWISE.
- PROVIDE IN EACH TELECOMMUNICATIONS ROOM.
- EXTEND BONDING CONDUCTOR BACK TO TMGB AND CONNECT TO TELECOMMUNICATIONS BONDING BACKBONE.
- SEE SPECIFICATION SECTION 260452 FOR DETAILS. PROVIDE MANUFACTURER AND PART NUMBER INDICATED OR APPROVED EQUIVALENT.



**HARGER**  
 301 ZIEGLER DRIVE  
 GRAYSLAKE, IL 60030  
 (847) 548-8700  
 PART NO. GBH4212TGB  
 BCSI CU GROUND BAR ASSEMBLY

**NOTES:**

- SUPPORT FROM WALL 12 INCHES ABOVE FINISHED GRADE, UNLESS NOTED OTHERWISE.
- PROVIDE IN MAIN TELECOMMUNICATION ROOM.
- EXTEND BONDING CONDUCTOR BACK TO MAIN ELECTRICAL SERVICE SERVICE BONDING BAR.
- SEE SPECIFICATION SECTION 260452 FOR DETAILS. PROVIDE MANUFACTURER AND PART NUMBER INDICATED OR APPROVED EQUIVALENT.

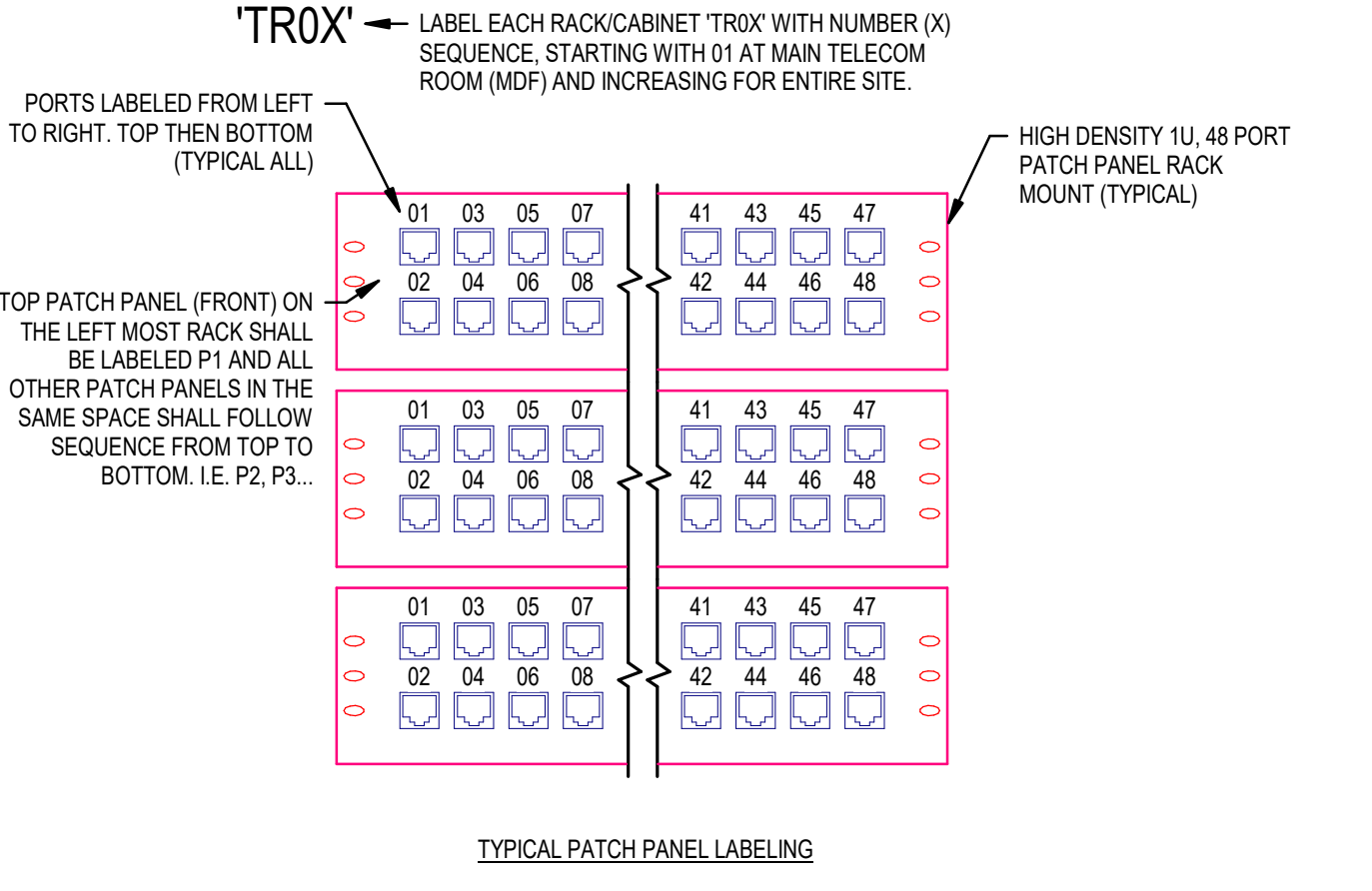
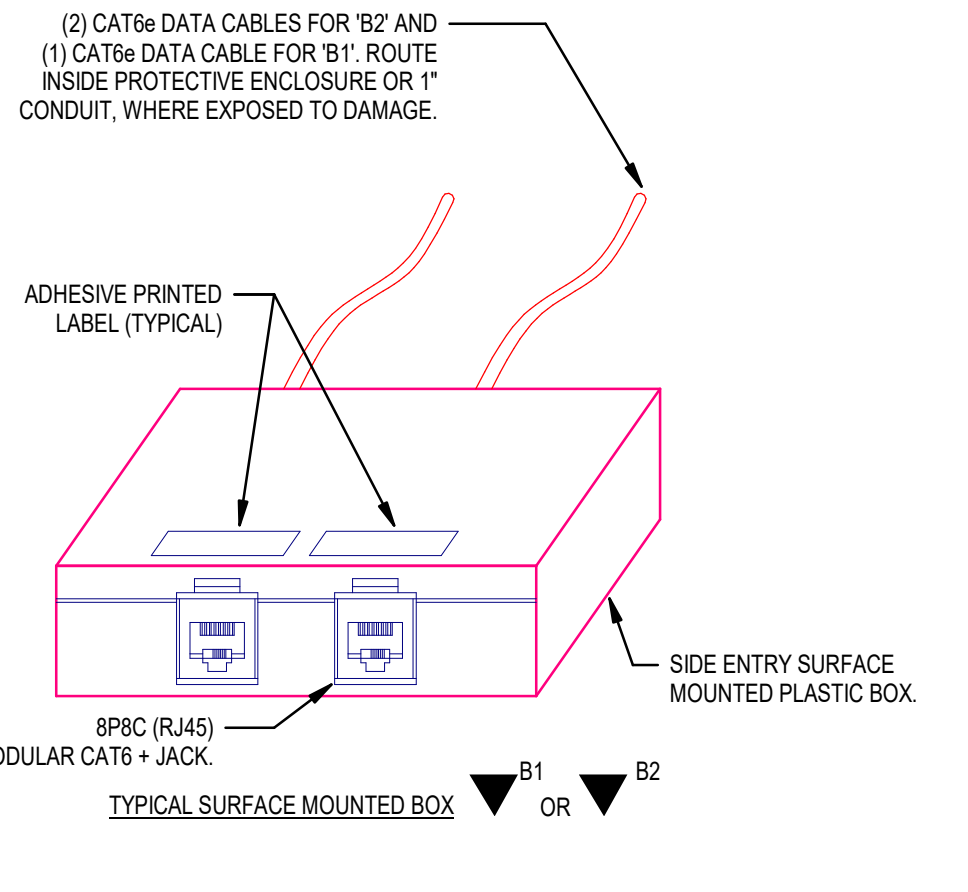
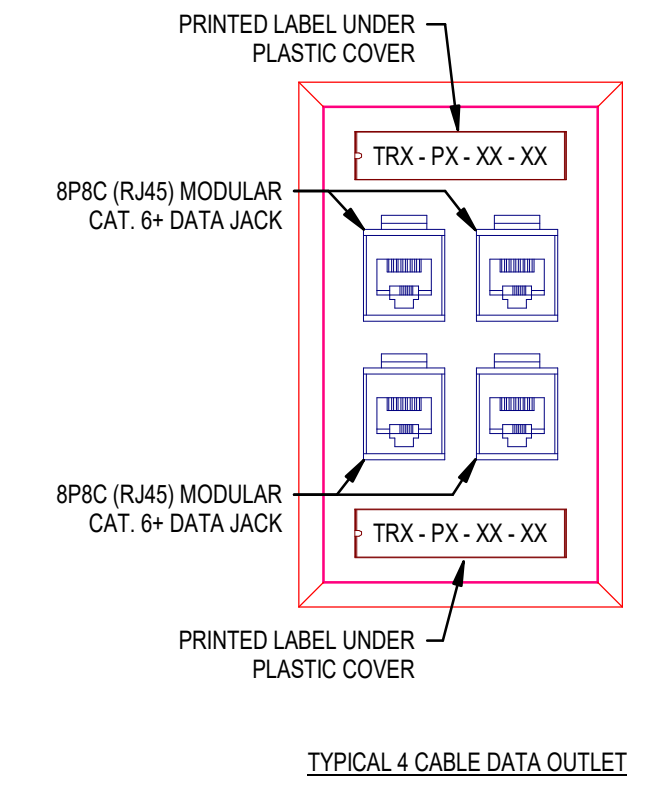
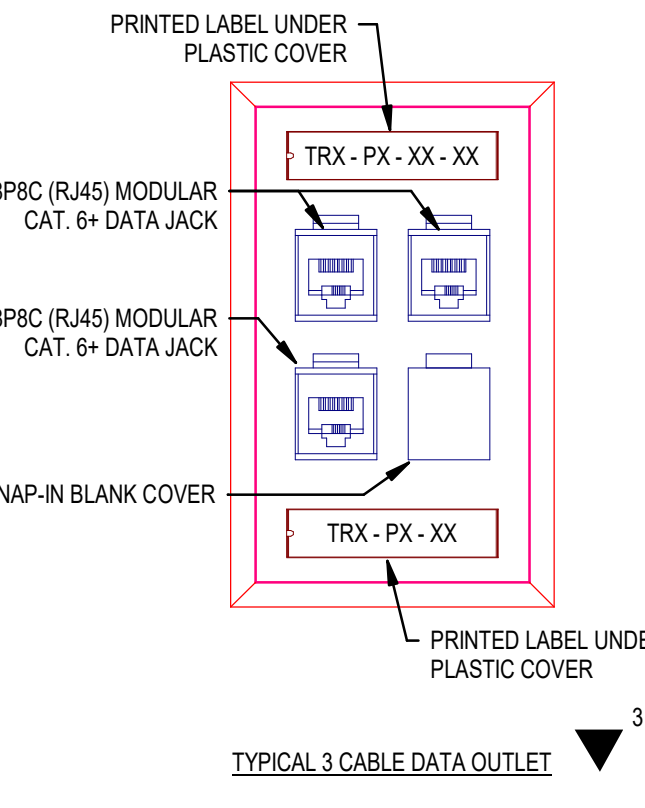
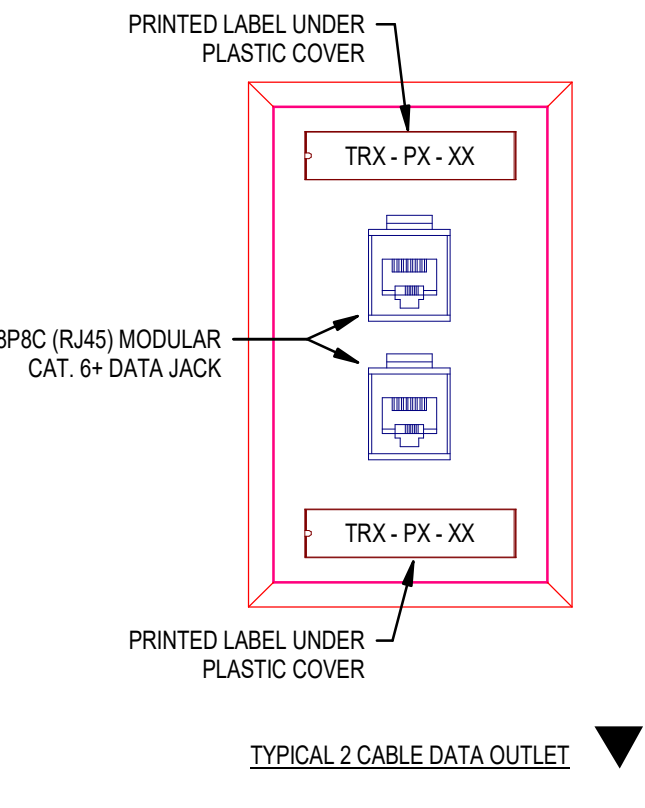
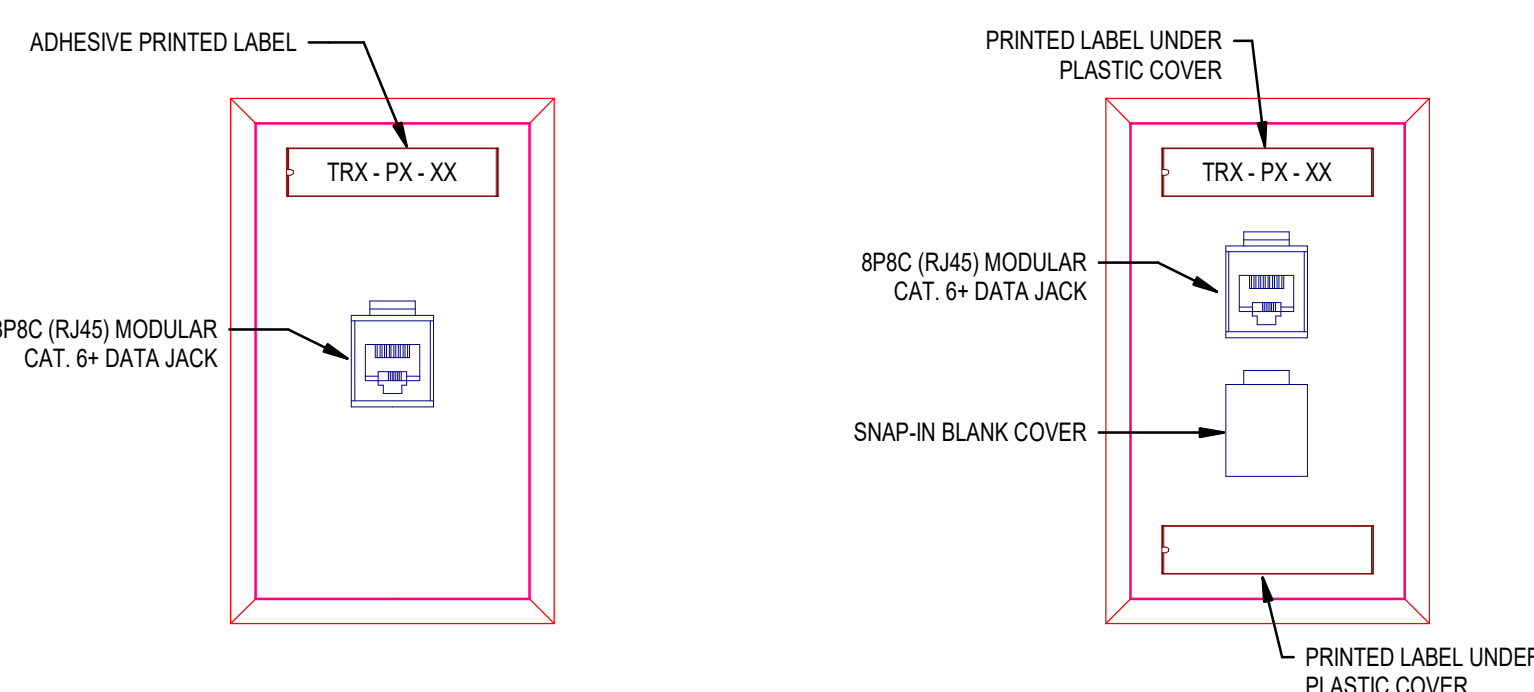


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 301 ZIEGLER DRIVE  
 GRAYSLAKE, IL 60030  
 (847) 548-8700  
 PART NO. GBH4212TGB  
 BCSI CU GROUND BAR ASSEMBLY

**NOTES:**

- PROVIDE SNAP-IN BLANKS IN ALL UNUSED PORTS.
- COORDINATE THE DATA FACEPLATE AND JACK COLOR WITH THE ELECTRICAL CONTRACTOR SUCH THAT THEY MATCH EXACTLY THAT OF THE ADJACENT ELECTRICAL RECEPTACLE COVER PLATE. COLOR SELECTED BY ARCHITECT.
- COORDINATE WITH ELECTRICAL CONTRACTOR AND APPROVED FLOOR BOXES SUCH THAT ALL NECESSARY ACCESSORIES AND PROPER FACEPLATES COMPATIBLE WITH FLOOR BOXES ARE PROVIDED.
- SEE COMMUNICATIONS SPECIFICATION FOR DETAILS AND ADDITIONAL REQUIREMENTS.

- ALL MUST BE LABELED TO THIS STANDARD: TELECOMMUNICATION ROOM (TRX) PATCH PANEL NUMBER (PX) PATCH PANEL PORT (XX)
- EXAMPLES  
 \* TR01 - P2 - 02  
 \* TR02 - P1 - 14  
 \* TR03 - P1 - 22
- ALL LABELS SHALL BE MACHINE GENERATED AND APPROVED BY OWNER. PROVIDE LABELS FOR ALL RACKS, PATCH PANELS, CABLES AND OUTLET FACE PLATES.



**6 PATCH PANEL, DATA/PHONE FACEPLATE AND BOX LABELING**  
 SCALE: NTS

**NOTES:**

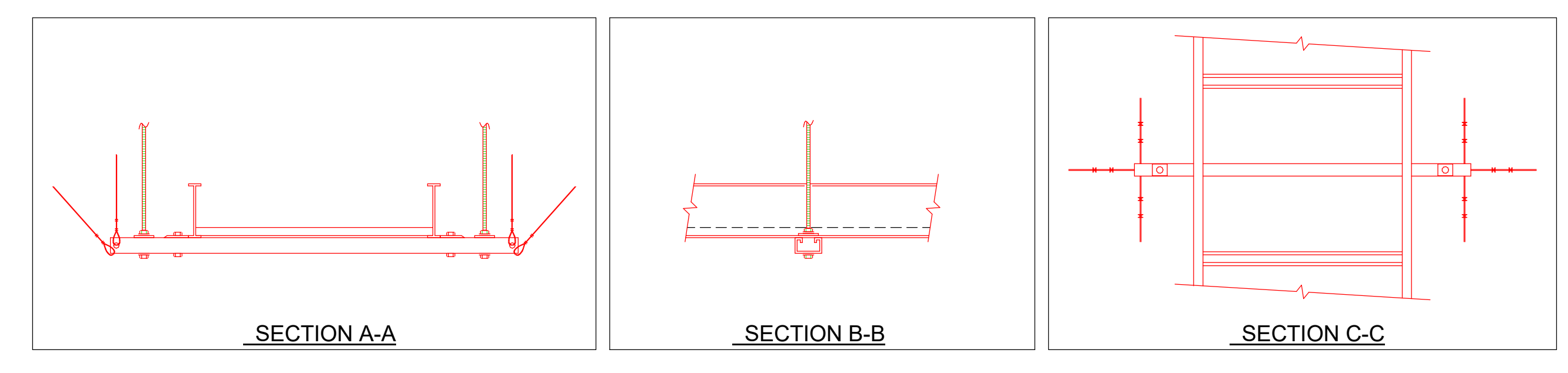
- PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

| MAXIMUM CABLE TRAY PLUS CABLE WT. | VERTICAL SUPPORT SPACING | LATERAL SUPPORT SPACING | LONGITUDINAL SUPPORT SPACING | ROD DIAMETER | CABLE BRACE SWIVEL ANCHOR & CABLE |
|-----------------------------------|--------------------------|-------------------------|------------------------------|--------------|-----------------------------------|
| POUNDS/FOOT                       | FEET                     | FEET                    | FEET                         | INCHES       | SCB2                              |
| 25                                | 10                       | 10                      | 20                           | 0.375        | SCB2                              |
| 50                                | 10                       | 10                      | 20                           | 0.500        | SCB3                              |

- PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS 14". STIFFENER CLIP SPACING SHALL BE 12".
- SEE SPECIFICATIONS FOR APPROVED FITTINGS FOR ATTACHMENT TO STRUCTURE.

**GENERAL NOTES:**

- COORDINATE ROUTING OF CABLE TRAYS AND SUPPORT SYSTEMS WITH ALL DIVISIONS.
- DO NOT SUPPORT FROM BOTTOM CORD OF TRUSSES.
- WHERE CABLE TRAYS ARE ROUTING ABOVE SUSPENDED CEILINGS, INSTALL TRAY NO MORE THAN 6" FROM CEILING TO BOTTOM OF TRAY.



**3 SEISMIC BRACING FOR CABLE TRAY/CABLES**  
 SCALE: NTS





SPE ARCHITECTS

P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP



CODE OFFICIAL STAMP



PROJECT NAME:

BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321



ENVISSION ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P. (801) 534-1190  
F. (801) 534-1180  
www.envisioneng.com

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SHEET TITLE:

TELECOM RISER DIAGRAMS

SHEET NUMBER:

EC701

- TELECOM RISER KEYED NOTES:
- CONDUITS/SLEEVES SHALL BE STUBBED 3" ABOVE AND BELOW THE FLOOR AND THREADED FOR COLLARS. LOCATE IMMEDIATELY ADJACENT TO THE WALL (NO MORE THAN 2"). ALLOWING ROOM FOR BUSHINGS OR CAPS.
  - CAP OR PLUG ALL UNUSED SERVICE CONDUITS TO PREVENT ENTRY OF WATER AND/OR DEBRIS.
  - EXTEND CONDUIT TO NEAREST CABLE TRAY AND PROVIDE BUSHING.

- TELECOM RISER BLOCK DEFINITIONS
- RACK LIU**: RACK MOUNTED LIGHT INTERFACE UNIT
  - COPPER**: RACK MOUNTED BACKBONE COPPER PATCH PANEL
  - BEP**: WALL MOUNTED BUILDING ENTRANCE PROTECTOR (SURGE PROTECTION)
  - RACK PATCH**: RACK MOUNTED PATCH PANELS

TELECOMMUNICATIONS STANDARDS/GUIDELINES:  
CONTRACTOR SHALL FOLLOW ALL OF THE STANDARDS/REQUIREMENTS BELOW. TIA STANDARDS AND INSTALLATION PRACTICES. SEE SPECIFICATIONS SECTION 271500 FOR ADDITIONAL REQUIREMENTS. THESE GUIDELINES ARE MEANT AS A REFERENCE ONLY AND NOT AS A COMPLETE SET OF STANDARDS.

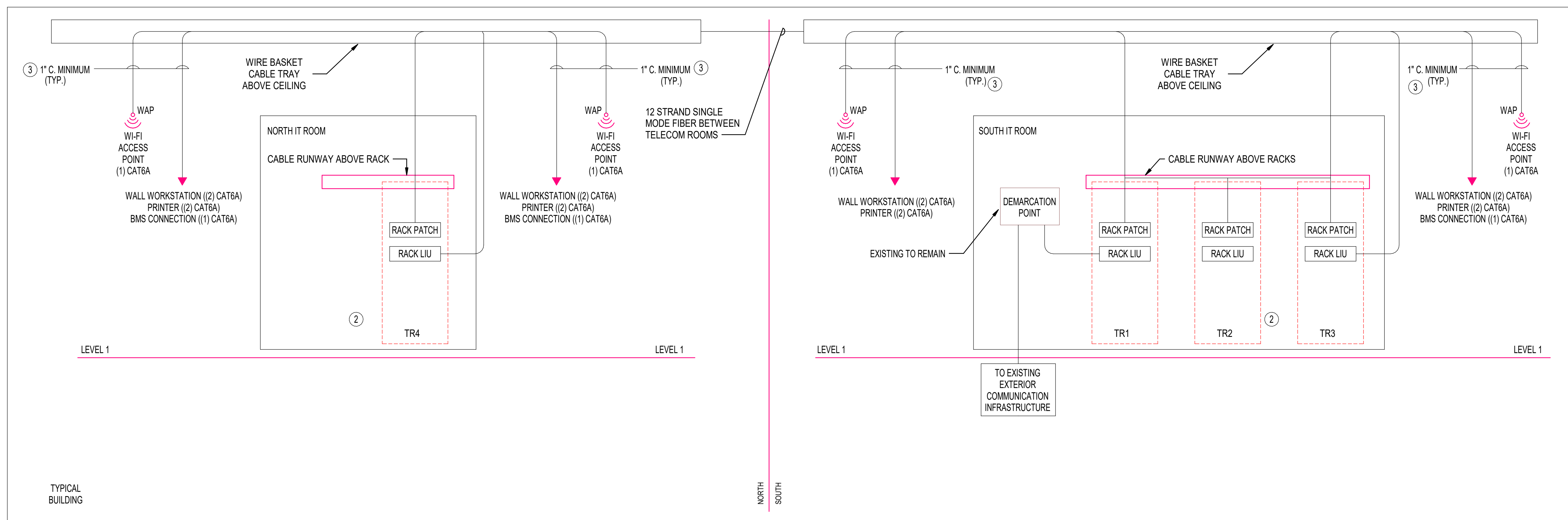
- GENERAL ITEMS
- ALL TELECOM ROOMS SHALL BE LINED WITH 3/4" A/C OR BETTER PLYWOOD EXTENDING 8" HIGH WITH OUTLETS EXTENDING FLUSH WITH THE SURFACE OF THE WOOD AT 6 FT ABOVE FINISHED FLOOR.
  - ALL CONDUITS EXTENDING FROM THE FLOOR SHOULD EXTEND 1-3" AFF AND NO MORE THAN 2" OFF ANY WALL.
  - CONDUIT ROWS SHOULD NOT EXCEED TWO DEEP.
  - CONDUITS THAT ENTER A TELECOM ROOM SHOULD TERMINATE NEAR THE CORNERS TO ALLOW FOR PROPER RACKING.
  - ALL PATHWAYS MUST NOT EXCEED 295' FROM THE TELECOM RACK TO THE DATA OUTLET.
  - ALL PENETRATIONS THROUGH FIRE RATED WALL SHALL BE PROVIDED WITH FIRE RATED PATHWAYS, PUTTY PADS AND FIRE CAULKING SUCH THAT THE WALL RATING IS MAINTAINED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - REFER TO DRAWINGS AND SPECIFICATIONS FOR ALL OUTLET/DEVICE INSTALLATION REQUIREMENTS AND LOCATIONS.
  - UNLESS OTHERWISE NOTED, ALL CABLE SHALL BE INSTALLED IN CONDUIT WITH THE EXCEPTION OF PATCH CABLES. PROVIDE CONTINUOUS CONDUIT AT OPEN CEILINGS.

- ACCEPTABLE CONDUIT RUNS
- MUST NOT HAVE A BEND OVER 90 DEGREES OR AN AGGREGATE OF BENDS IN EXCESS OF 180 DEGREES BETWEEN PULL POINTS.
  - CONDUIT SEGMENTS SHALL NOT EXCEED 100' WITHOUT A PULL POINT.
  - CONDUIT RUNS SHOULD BE LIMITED TO LESS THAN 150'.
  - ALL EMPTY CONDUITS SHALL BE EQUIPPED WITH A PULL CORD THAT HAS A MINIMUM RATING OF 200 LBS.
  - ALL CONDUIT LOCATED BELOW GRADE OR IN THE SLAB SHALL BE OF THE WET LOCATION LISTED TYPE.
  - ALL CONDUIT RUNS SHALL BE SINGLE CONTINUOUS RUNS FROM THE VOICE/DATA OUTLET TO THE NEAREST CABLE TRAY. JUNCTION BOXES ARE ALLOWED IN ACCESSIBLE LOCATIONS ONLY.
  - FLEXIBLE METALLIC AND FLEXIBLE NONMETALLIC CONDUIT ARE PROHIBITED.

- PATHWAYS AND CABLE SUPPORT
- PATHWAYS MUST HAVE ADEQUATE SUPPORT TO WITHSTAND PULLING THE CABLES.
  - PATHWAYS SHOULD BE INSTALLED AT LEAST 3" OF CLEAR VERTICAL SPACE ABOVE THE CEILING TILES AND T-BARS TO ENSURE ACCESSIBILITY, AND SHOULD AT NO POINT REST OR BE SUPPORTED BY ANY COMPONENT OF THE SUSPENDED CEILING.
  - J-HOOKS SHOULD AT NO POINT EXCEED 4" FOR ADEQUATE SUPPORT.
  - PROVIDE CABLE TRAYS AS INDICATED ON THE DRAWINGS. FOR AREAS EXCEEDING 75 DATA CABLES, NOT WITH CABLE TRAY, ADDITIONAL CABLE TRAY SHALL BE PROVIDED FOR ADEQUATE SUPPORT.

- CABLE TRAYS / BASKET TRAY
- ALL CABLE TRAYS MUST BE INSTALLED TO MEET NATIONAL AND LOCAL BUILDING CODES.
  - THE INSIDE OF A CABLE TRAY MUST BE FREE OF BURRS, SHARP EDGES, OR PROJECTIONS THAT CAN DAMAGE THE CABLE DURING INSTALLATION.
  - ELEVATION CHANGES AND OFFSETS MUST BE KEPT TO A MINIMUM.
  - CONDUIT SHOULD EXTEND FROM THE TELECOM OUTLET LOCATED IN THE WORK AREA WITH A 90 DEGREE BEND AT TOP OF WALL DIRECTED TOWARDS NEAREST CABLE TRAY. CONDUIT SHALL BE USED AT ALL INACCESSIBLE AND OPEN CEILING LOCATIONS. CONDUIT SLEEVES SHALL BE PROVIDED THROUGH ALL WALL PENETRATIONS BETWEEN WHERE CONDUIT ENTERS CEILING FROM OUTLET BELOW TO NEAREST CABLE TRAY. ACCOUNT FOR TOTAL NUMBER OF CABLES PLUS 50% FUTURE CAPACITY WITH SLEEVES.
  - TRAYS SHOULD BE SUPPORTED EVERY 5' AND WITHIN 24" ON EACH SIDE OF A FITTING (UNLESS OTHERWISE NOTED BY THE MANUFACTURER).
  - ALL METALLIC CABLE TRAYS MUST BE GROUNDED, MARKED AND ALL SECTIONS BONDED IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS AND REGULATIONS.
  - PATHWAYS SHOULD BE KEPT IN COMMON AREAS AS MUCH AS POSSIBLE TO AVOID FUTURE MAINTENANCE OCCURRING IN PRIVATE WORK AREAS OR CLASSROOMS OR CONFERENCE ROOMS.
  - CABLE TRAYS SHOULD BE SIZED TO BE AT 40% FILL MAXIMUM AT THE END OF THE INSTALL, AND NO MORE THAN 60% FILL AT PROJECT COMPLETION. LARGER OR ADDITIONAL CABLE TRAY SHALL BE PROVIDED AS NECESSARY TO MEET THESE REQUIREMENTS.
  - TRAY SHOULD EXTEND AT LEAST 1" INTO THE TELECOM ROOM THEN WATERFALL TO LOWER CABLE RUNWAY SYSTEM TO ACCOMMODATE INTERNAL RACKING.

- GROUNDING AND BONDING
- IF THERE IS A CONFLICT BETWEEN LOCAL SAFETY CODE, OWNER, OR THE MANUFACTURERS REQUIREMENTS, THE CONFLICT SHOULD BE RESOLVED WITH THE AHJ BEFORE PROCEEDING.
  - ENTRANCE FACILITY (EF) MUST CONTAIN THE TMGB (4" WIDE 1/4" THICK AND NO LESS THAN 12" IN LENGTH) THIS WILL SERVE AS THE DEDICATED EXTENSION OF THE BUILDING AC GROUNDING ELECTRODE SYSTEM FOR THE TELECOM INFRASTRUCTURE.
  - THE PLACEMENT OF THIS BUS-BAR MUST BE IN CLOSE PROXIMITY TO THE PRIMARY/ SECONDARY SURGE PROTECTION, CABLE SHEATHS, AND ENTRANCE CONDUITS.
  - THE INSTALLATION OF THE TELECOM BONDING BACKBONE (CONNECTS THE TMGB TO TGB'S AND SHOULD BE RUN AS SHORT AND STRAIGHT AS POSSIBLE).
- LABELING
- ALL CABLES MUST HAVE A PRINTED LABEL THAT WRAPS AROUND THE CABLE AT THE PATCH PANEL AND OUTLET.
  - ALL PATCH PANELS SHALL BE LABELED WITH A PRINTED LABEL SECURED TO PATCH PANEL.
  - ALL COPPER BACKBONE CABLES SHALL HAVE LABELS THAT WRAP AROUND THEM DESIGNATING THEIR DESTINATION AND SOURCE. SEE SPECIFICATION SECTION 270553 - 271500 FOR ADDITIONAL REQUIREMENTS.



1 TELECOMMUNICATIONS RISER DIAGRAM  
1/2" = 1'-0"

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- SYSTEMS GENERAL NOTES:**
- COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
  - DO NOT LOCATE ANY FIRE ALARM DEVICES BEHIND DOORS OR SHELVING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SHELVING LOCATIONS.
  - THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
  - ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
  - CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.
  - ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC., ARE SCHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTIFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.
  - FIRE ALARM, ASSOCIATED CONDUIT, WIRING AND DEVICES ARE TO REMAIN AND TO BE FULLY PROTECTED AND REMAIN FULLY OPERATIONAL DURING CONSTRUCTION PROCESS.

- KEYED NOTES**
- Y1 REFER TO POWER PLANS FOR ADA PUSH-BUTTON REQUIREMENTS.
  - Y2 EXISTING FIRE ALARM CONTROL PANEL (FACP) AND ASSOCIATED CONDUIT AND WIRING TO REMAIN AND BE REUSED. CAREFULLY PROTECT FACP AND ASSOCIATED CONDUIT AND WIRING DURING CONSTRUCTION.
  - Y3 EXISTING RISER, EXISTING WATER FLOW INDICATORS, TAMPER SWITCHES, AND MONITOR MODULES TO REMAIN AND BE REUSED.

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1080  
 www.envisioneng.com

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SHEET TITLE:  
**CEILING PLAN -  
 LEVEL 1 -  
 SYSTEMS - AREA  
 "A"**

SHEET NUMBER:  
**EY101**

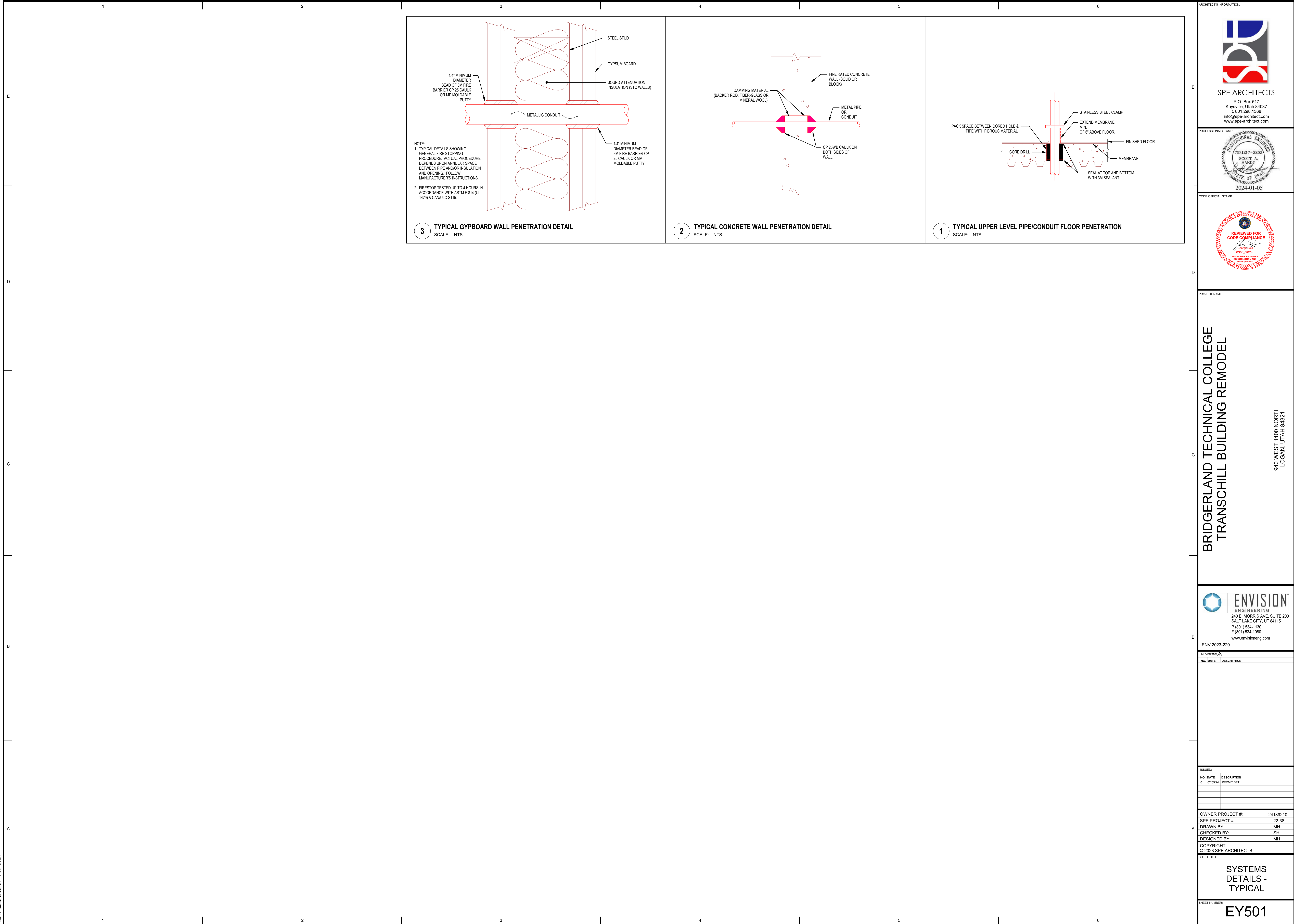
**1 LEVEL 1 - SYSTEMS - AREA "A"**  
 1/8" = 1'-0"

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ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**ENVISION**  
ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P (801) 534-1130  
F (801) 534-1180  
www.envisioneng.com

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OWNER PROJECT #: 24139210  
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DESIGNED BY: MH  
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SHEET TITLE:  
**SYSTEMS  
DETAILS -  
TYPICAL**

SHEET NUMBER:  
**EY501**



**ABBREVIATIONS:**  
 ADO - AUTOMATIC DOOR OPERATOR  
 AFF - ABOVE FINISHED FLOOR  
 AP - ACCESS CONTROL PANEL  
 CR - CARD READER  
 DHS - DOOR HARDWARE SUPPLIER  
 DPS - DOOR POSITION SWITCH  
 EPT - ELECTRIC POWER TRANSFER  
 ES - ELECTRIC STRIKE  
 MAG LOCK - MAGNETIC LOCK  
 RX - EXIT DEVICE  
 PB - DOOR RELEASE PUSH BUTTON (MANUAL REX)  
 REX - REQUEST TO EXIT  
 RFI - REQUEST FOR INFORMATION

**ACCESS CONTROL COORDINATION REQUIREMENTS:**  
 CODE REFERENCES AND REQUIREMENTS:  
 2016 NFPA 101 - LIFE SAFETY CODE  
 • 7.2.1.5.6(5) REQUIRES THAT LOSS OF POWER WILL UNLOCK THE ELECTRICALLY CONTROLLED DOOR HARDWARE.  
 • 7.2.1.6.2(4) REQUIRES THAT ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM UNLOCK ALL DOORS LOCATED IN THE PATH OF EGRESS. 2016 NFPA 80 - FIRE DOORS AND OTHER OPENING PROTECTIVES  
 2016 NFPA 60 - FIRE DOORS AND OTHER OPENING PROTECTIVES  
 • 6.1.3.4 REQUIRES THAT POWER OPERATED FIRE DOORS HAVE A RELEASING DEVICE TO AUTOMATICALLY RELEASE POWER UPON FIRE ALARM.  
 • 6.4.4.3.3 REQUIRES THAT FIRE RATED DOORS BE POSITIVELY LATCHED TO MAINTAIN THE FIRE RATING. ALL ELECTRIC STRIKES USED IN FIRE RATED DOORS MUST BE FAIL SECURE.  
 2012 IBC - INTERNATIONAL BUILDING CODE  
 • 1010.1.9.8 REQUIRES ELECTROMAGNETICALLY LOCKED DOORS HAVE A SENSOR RELEASE SWITCH EITHER AUTOMATIC OR BY A READILY ACCESSIBLE WALL MOUNTED PUSHBUTTON TO RELEASE THE LOCK WITHIN 5' OF THE DOOR.  
**INTEGRATION WITH FIRE ALARM**  
 ALL MAGNETIC LOCKS SHALL BE UNLOCKED DURING A GENERAL FIRE ALARM. THIS ACTION IS NOT REQUIRED IF SYSTEM IS IN ALARM BY MEANS OF A MANUAL PULL STATION. AUTOMATIC DETECTION DEVICES SUCH AS SMOKE DETECTORS OR SPRINKLER FLOW REQUIRE UNLOCKING AND THE DOOR MUST REMAIN UNLOCKED UNTIL FIRE ALARM SYSTEM RESET. CONTRACTOR SHALL INCLUDE ALL FIRE ALARM INTERFACE EQUIPMENT SUCH AS ADDRESSABLE CONTROL MODULES OR BY CONTACT CLOSURE SIGNALING TO THE ACCESS CONTROL PANELS AS NECESSARY TO MEET THE CODE REQUIREMENTS. ALL DOORS IN STAIRWELLS MUST ALLOW FOR RE-ENTRY.  
 \*\*\*TO ENSURE A COMPLETE AND OPERATING ACCESS CONTROL SYSTEM AND TO ELIMINATE DELAYS, INSUFFICIENT OR UNNECESSARY WORK BY ALL OF THE ENTITIES INVOLVED, THE FOLLOWING STEPS SHALL BE COMPLETED. THE FAILURE TO DO SO RESULTING IN ADDED COSTS AND LOST TIME WILL BE BORNE SOLELY BY THE CONTRACTOR. NO ADDITIONAL PAYMENTS WILL BE MADE BY THE OWNER TO COVER WORK DESCRIBED BELOW.\*\*\*

**GENERAL NOTES:**

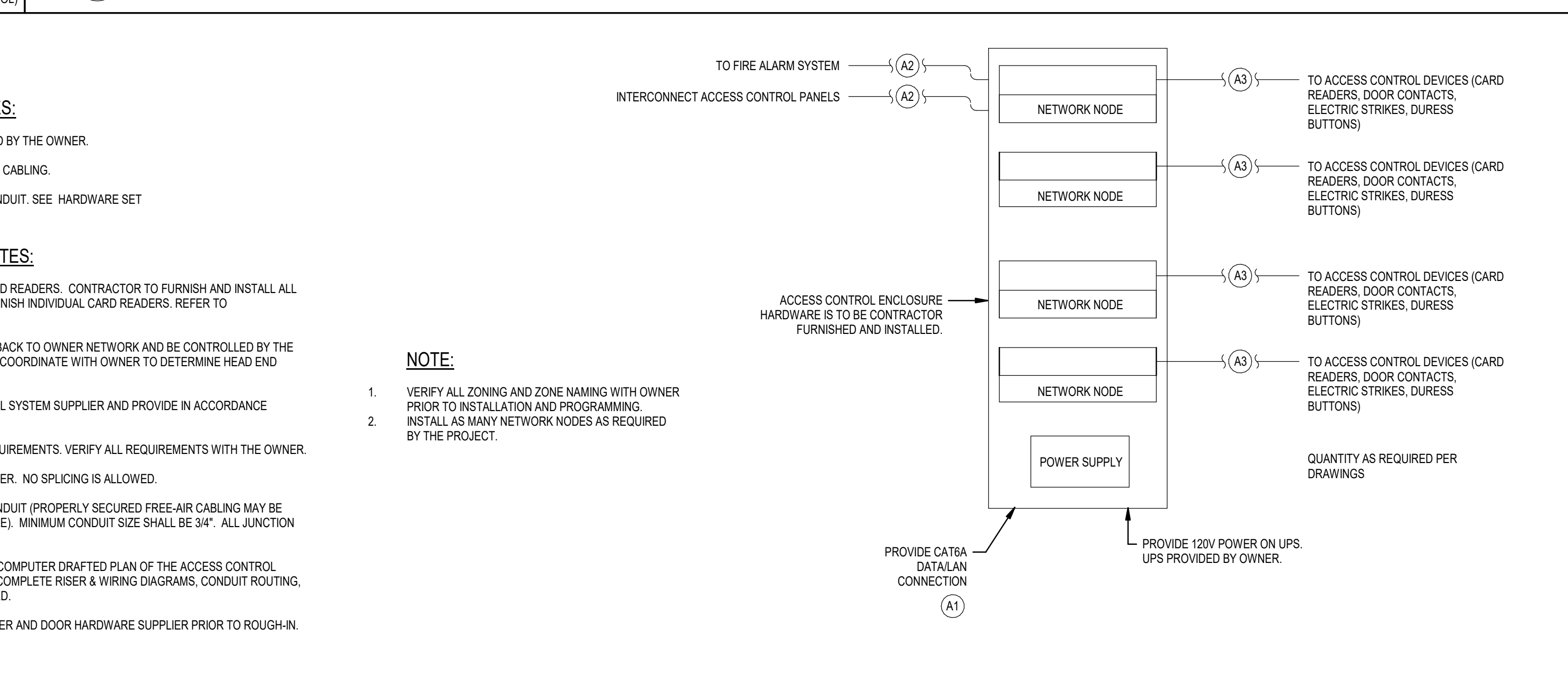
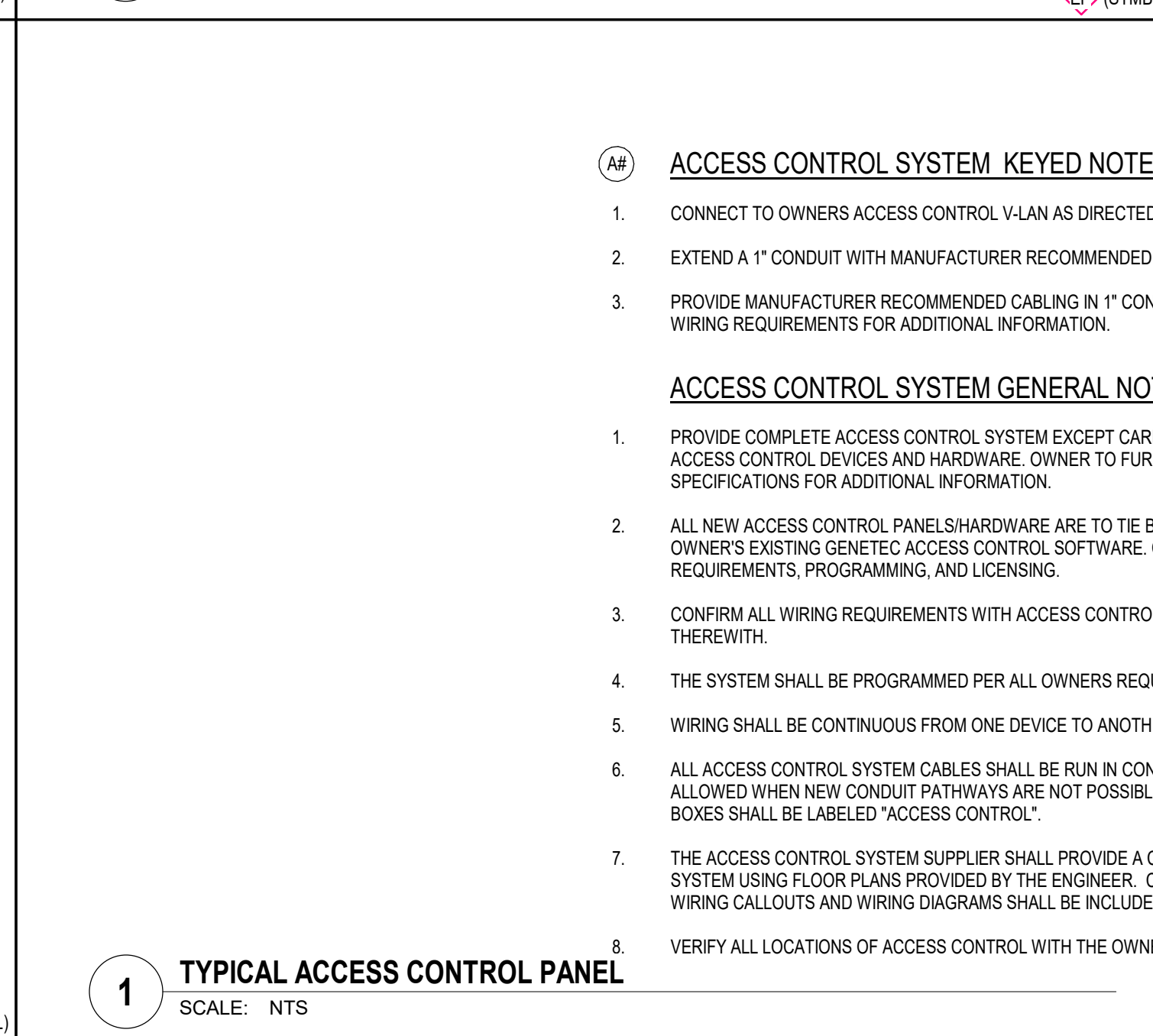
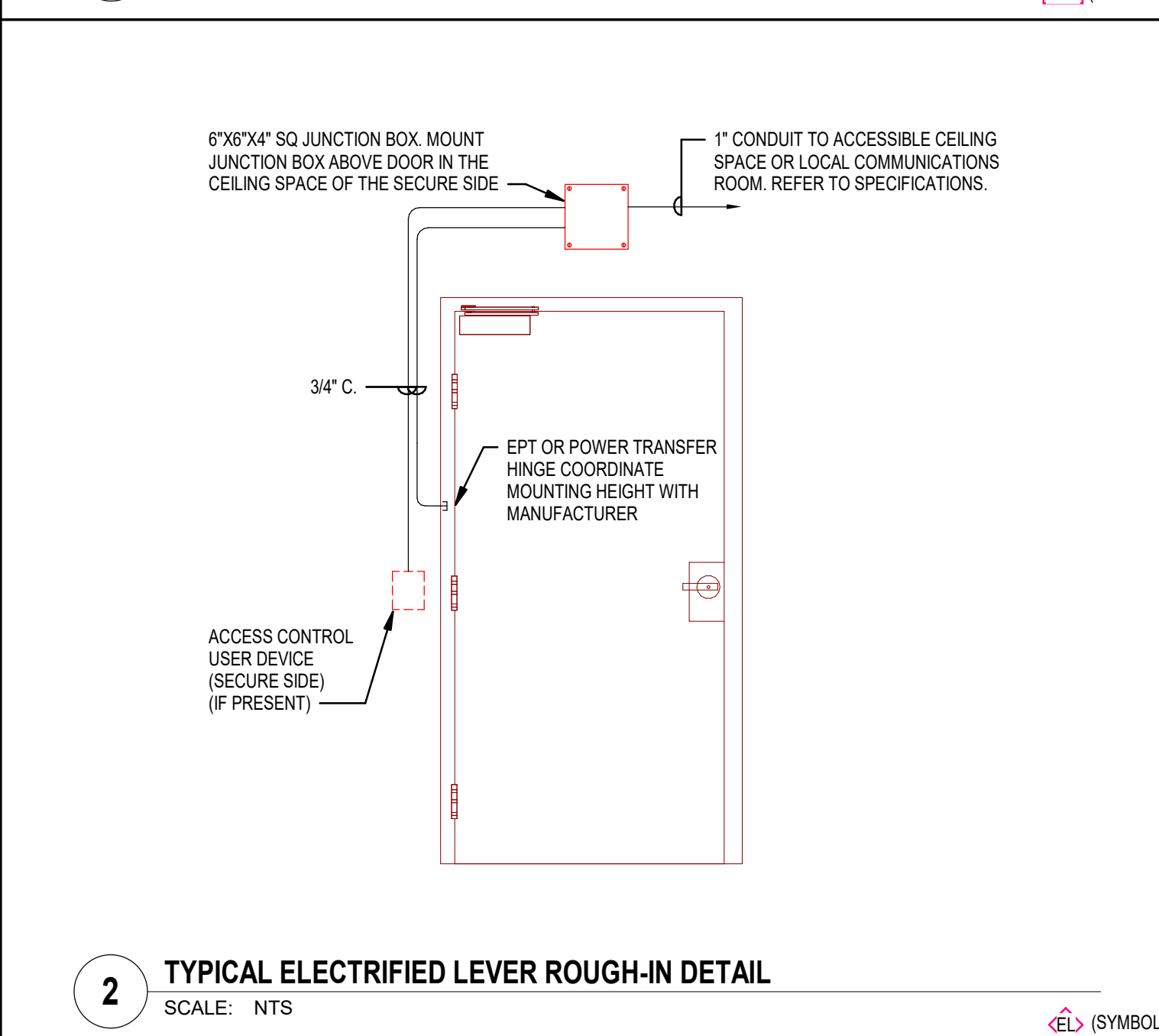
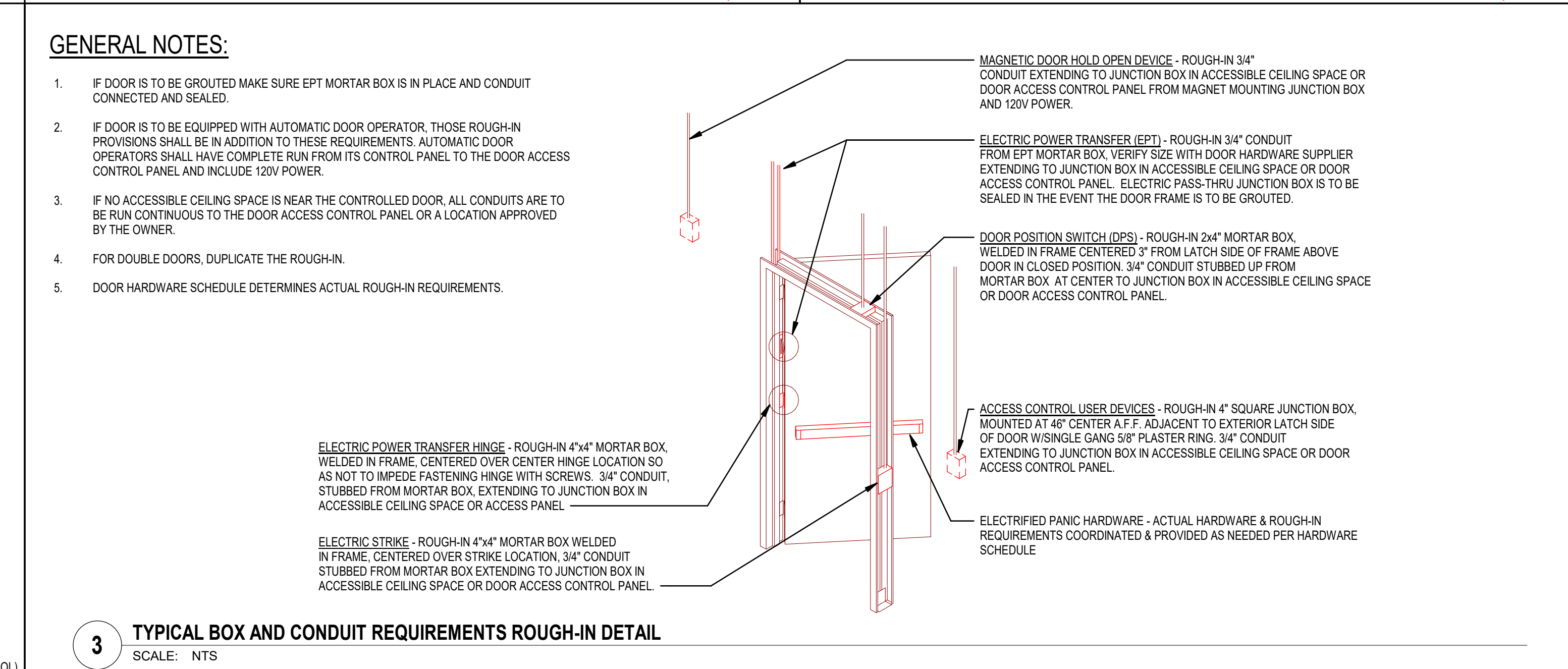
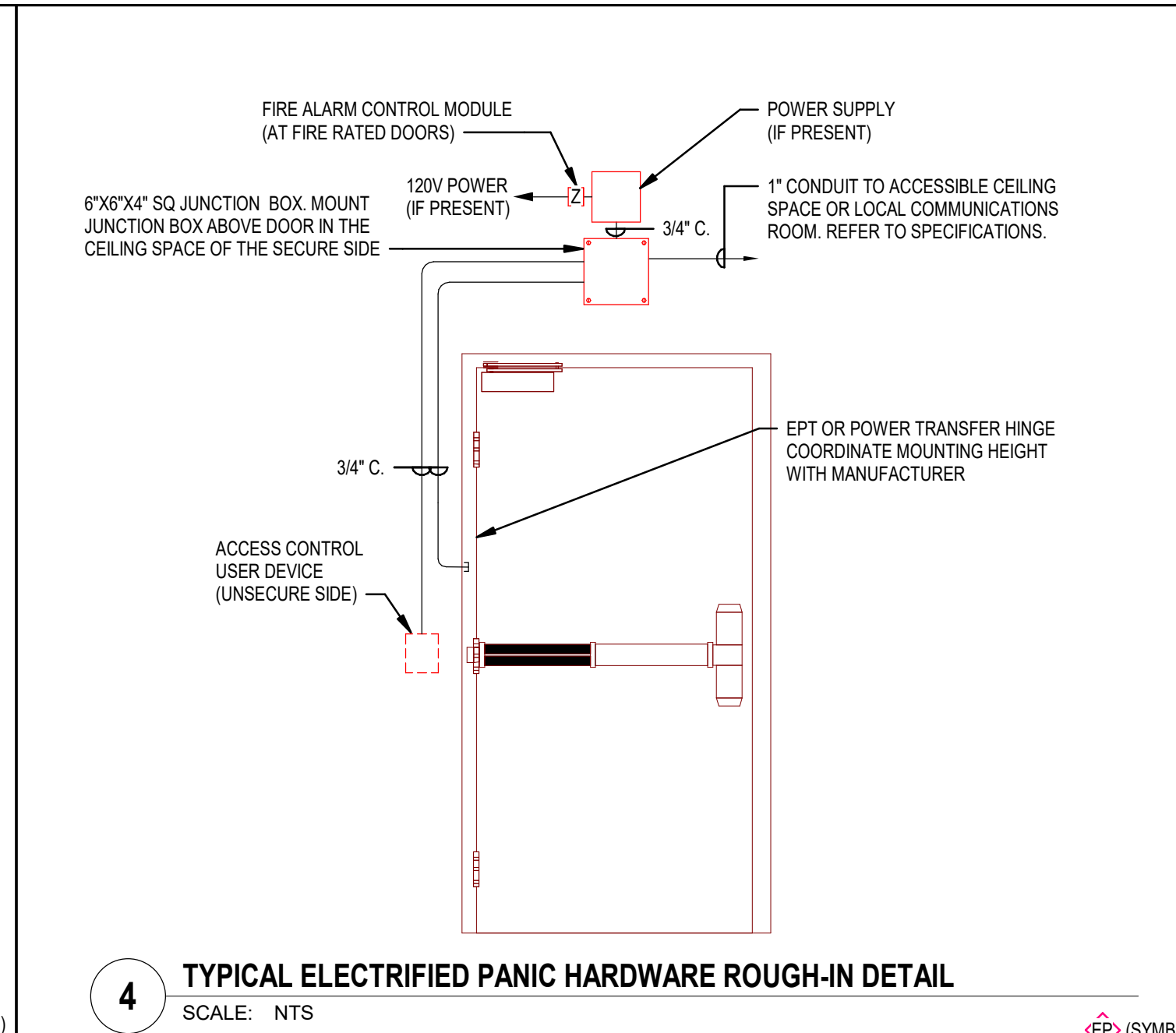
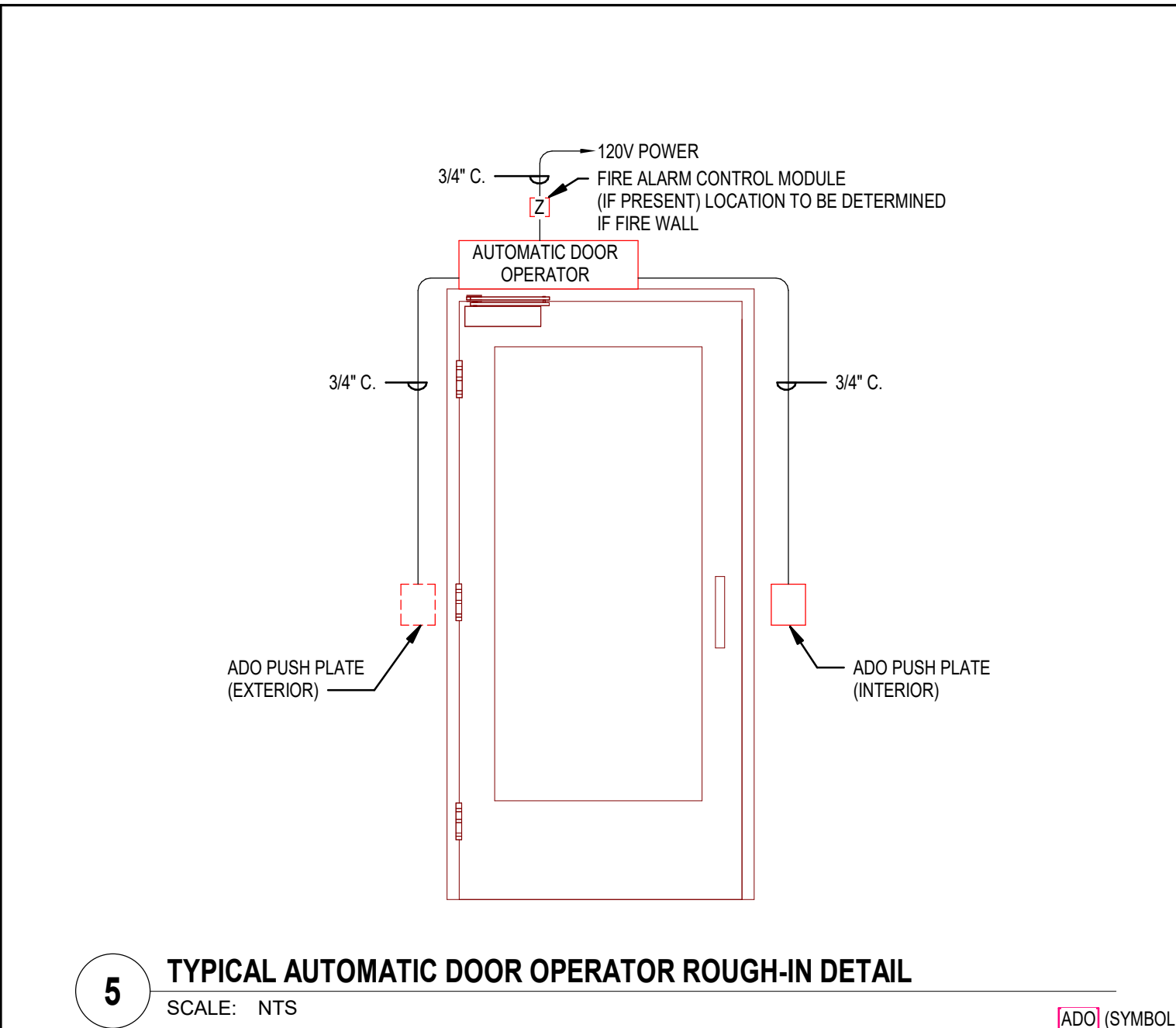
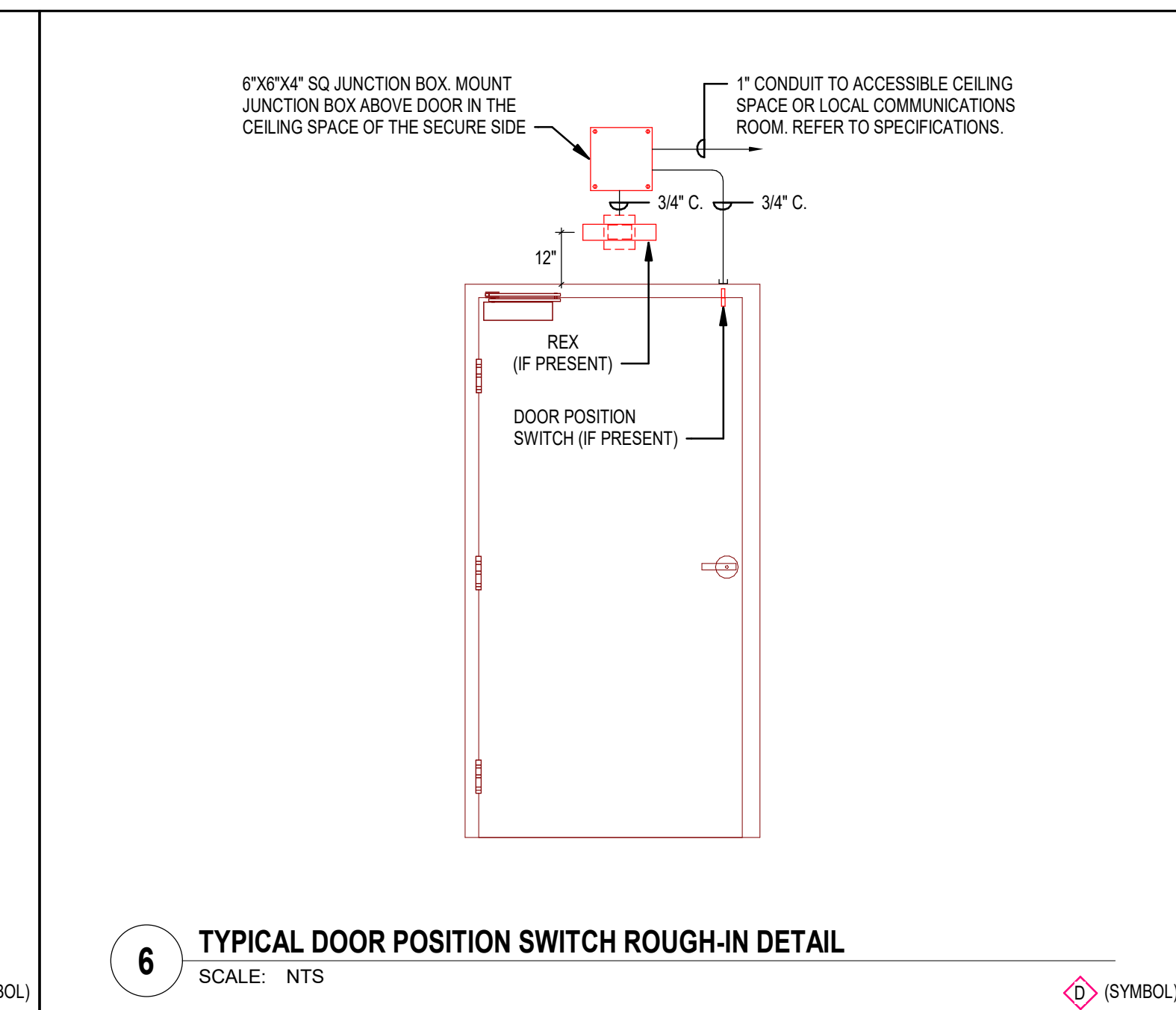
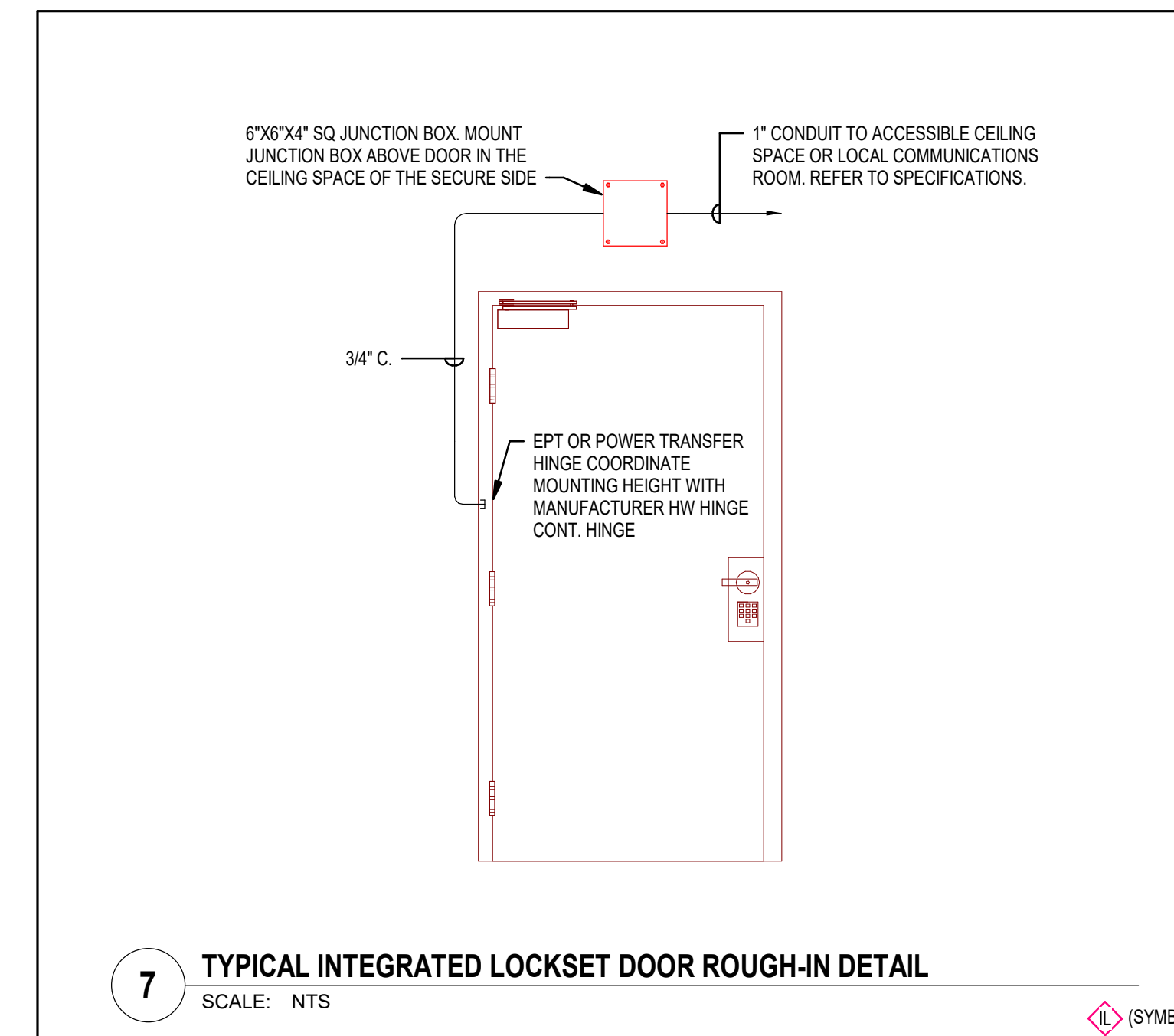
- THE DOOR DETAILS SHOWN BELOW ARE GENERAL ROUGH-IN DETAILS AND NOT ALL DEVICES SHOWN MAY BE PRESENT FOR EACH DOOR. CONTRACTOR SHALL REFER TO THE DOOR HARDWARE SCHEDULE IN THE ARCHITECTS DRAWINGS AND SPECS TO DETERMINE WHAT DEVICES ARE PRESENT FOR EACH DOOR REQUIRING CARD ACCESS DOOR EQUIPMENT.
- NOT ALL DOOR STYLE DETAILS SHOWN BELOW MAY BE INCLUDED IN THE PROJECT.
- ALL CONDUIT SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- THE DOOR ROUGH-IN INFORMATION SHOWN ON THESE DRAWINGS ARE SCHEMATIC IN NATURE AND CANNOT ACCOUNT FOR ALL SPECIFIC VENDOR REQUIREMENTS, OR ACTUAL DOOR HARDWARE PROVIDED. COORDINATE SPECIFIC LOCATIONS WITH SECURITY CONTRACTOR AND APPROVED DOOR HARDWARE SCHEDULES PRIOR TO ROUGH-IN. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE CONDUIT RACEWAY SYSTEM AT THE DOOR AND BACK TO LOCAL ELECTRICAL ROOM.
- IF REX IS NOT INCLUDED IN DOOR HANDLE OR EXIT DEVICE, PROVIDE BOX FOR WALL MOUNTED REX DEVICE. VERIFY WITH DOOR HARDWARE PRIOR TO ROUGH-IN.
- PROVIDE CONDUIT AND DEVICE BACK BOX ROUGH-IN AT ALL CARD READER DOOR LOCATIONS. CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED AND ALL BOXES SHALL BE 4 SQUARE WITH A SINGLE GANG MUD RING FOR DEVICES OR JUST A SINGLE GANG BOX IF INSTALLED AT THE DOOR FRAME.
- A SINGLE FIRE ALARM CONTROL MODULE MAY BE USED TO CONTROL THE POWER TO MULTIPLE DOORS IF COORDINATED WITH THE ACCESS CONTROL SYSTEM VENDOR TO WIRE DOORS SEPARATE FROM OTHER DOORS TOGETHER ON THE SAME POWER SUPPLY LOOP.
- IF NO ACCESSIBLE CEILING SPACE IS NEAR THE CONTROLLED DOOR, ALL CONDUITS ARE TO BE RUN CONTINUOUS TO THE DOOR ACCESS CONTROL PANEL UNLESS A LOCATION IS DETERMINED TO BE ACCEPTABLE TO THE ENGINEER PRIOR TO INSTALLATION.

**DURING THE BIDDING PROCESS:**

- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE FLOORPLAN DRAWINGS AND DETAILS ON THIS SHEET. THE FLOORPLANS WILL INDICATE WHICH DOORS HAVE ACCESS CONTROL EQUIPMENT REQUIRING ROUGH-IN. DEVICE LOCATIONS REQUIRING JUNCTION BOXES WILL BE SHOWN ON THE FLOORPLANS, BUT ALL CONDUIT AND HARDWARE REQUIREMENTS CAN ONLY BE DETERMINED BY REFERRING TO THE SPECIFIC DOOR ROUGH-IN DETAILS AND THE ARCHITECTURAL DOOR HARDWARE SPECIFICATION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE SPECIFICATIONS, AND DEFINED EGRESS PATHS. IDENTIFY ACCESS CONTROLLED DOORS LOCATED IN FIRE RATED WALLS AND IN PATHS OF EGRESS REQUIRING ADDITIONAL CONTROL DEVICES.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY WHICH DOORS USING AN ELECTRIFIED EXIT DEVICE WILL REQUIRE 120V AT THE DOOR. THIS IS MANUFACTURER SPECIFIC AND MUST BE CONFIRMED WITH THE GENERAL CONTRACTOR ACCORDING TO WHICH HARDWARE SUPPLIER BEING USED.

**POST-BID, DURING THE SUBMITTAL PROCESS:**

- DURING THE SUBMITTAL PROCESS, THE ELECTRICAL CONTRACTOR SHALL REVIEW THE APPROVED DOOR HARDWARE SUBMITTAL TO CONFIRM THE FINAL HARDWARE SETS PRIOR TO ANY ROUGH-IN. ANY QUESTIONS SHALL BE ISSUED BY FORMAL RFI.
- MEET WITH THE ACCESS CONTROL VENDOR TO REVIEW ALL FINAL INTEGRATION AND ROUGH-IN REQUIREMENTS. ONLY AFTER CONFIRMING THE FINAL DOOR HARDWARE AND ACCESS CONTROL SYSTEM REQUIREMENTS SHALL ANY ROUGH-IN WORK BEGIN.



**ACCESS CONTROL SYSTEM KEYED NOTES:**

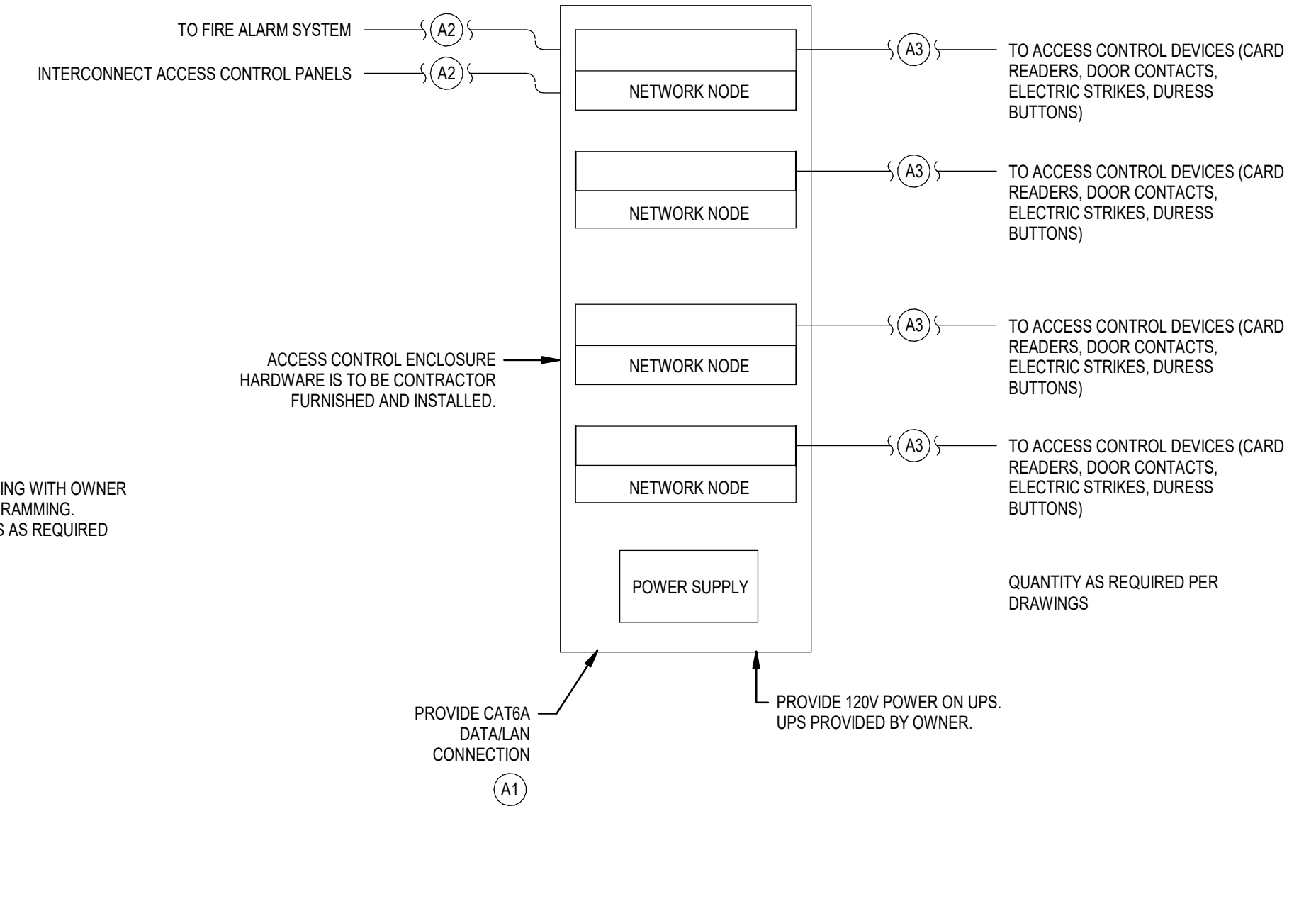
- CONNECT TO OWNERS ACCESS CONTROL V-LAN AS DIRECTED BY THE OWNER.
- EXTEND A 1" CONDUIT WITH MANUFACTURER RECOMMENDED CABLING.
- PROVIDE MANUFACTURER RECOMMENDED CABLING IN 1" CONDUIT. SEE HARDWARE SET WIRING REQUIREMENTS FOR ADDITIONAL INFORMATION.

**ACCESS CONTROL SYSTEM GENERAL NOTES:**

- PROVIDE COMPLETE ACCESS CONTROL SYSTEM EXCEPT CARD READERS. CONTRACTOR TO FURNISH AND INSTALL ALL ACCESS CONTROL DEVICES AND HARDWARE. OWNER TO FURNISH INDIVIDUAL CARD READERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL NEW ACCESS CONTROL PANELS/HARDWARE ARE TO BE BACK TO OWNER NETWORK AND BE CONTROLLED BY THE OWNERS EXISTING GENETEC ACCESS CONTROL SOFTWARE. COORDINATE WITH OWNER TO DETERMINE HEAD END REQUIREMENTS, PROGRAMMING, AND LICENSING.
- CONFIRM ALL WIRING REQUIREMENTS WITH ACCESS CONTROL SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
- THE SYSTEM SHALL BE PROGRAMMED PER ALL OWNERS REQUIREMENTS. VERIFY ALL REQUIREMENTS WITH THE OWNER.
- WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED.
- ALL ACCESS CONTROL SYSTEM CABLES SHALL BE RUN IN CONDUIT (PROPERLY SECURED FREE-AIR CABLING MAY BE ALLOWED WHEN NEW CONDUIT PATHWAYS ARE NOT POSSIBLE). MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL JUNCTION BOXES SHALL BE LABELED "ACCESS CONTROL".
- THE ACCESS CONTROL SYSTEM SUPPLIER SHALL PROVIDE A COMPUTER DRAFTED PLAN OF THE ACCESS CONTROL SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. COMPLETE RISER & WIRING DIAGRAMS, CONDUIT ROUTING, WIRING CALLOUTS AND WIRING DIAGRAMS SHALL BE INCLUDED.
- VERIFY ALL LOCATIONS OF ACCESS CONTROL WITH THE OWNER AND DOOR HARDWARE SUPPLIER PRIOR TO ROUGH-IN.

**NOTE:**

- VERIFY ALL ZONING AND ZONE NAMING WITH OWNER PRIOR TO INSTALLATION AND PROGRAMMING.
- INSTALL AS MANY NETWORK NODES AS REQUIRED BY THE PROJECT.



ARCHITECTS INFORMATION

SPE ARCHITECTS  
 P.O. Box 517  
 Kayville, Utah 84037  
 t. 801.298.1368  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

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PROJECT NAME

BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENVISSION ENGINEERING

240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P. (801) 534-1130  
 F. (801) 534-1180  
 www.envissioneng.com

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 SPE PROJECT #: 22-38  
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SHEET TITLE: ACCESS CONTROL DETAILS

SHEET NUMBER: EY502

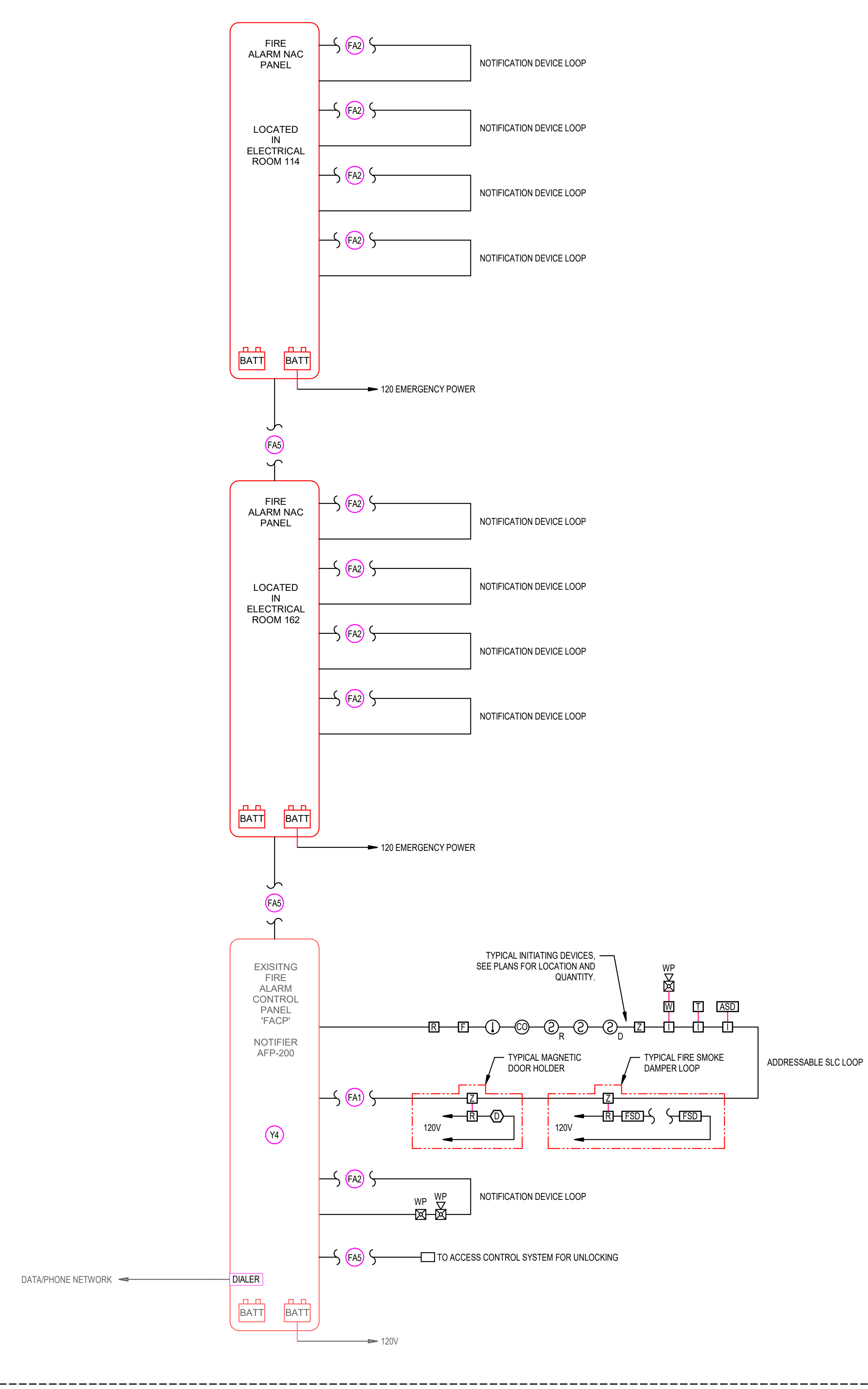


**FIRE ALARM SYSTEM GENERAL NOTES:**

- THE NEW FIRE ALARM DEVICES TO EXISTING ADDRESSABLE FIRE ALARM SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING ZONES AS REQUIRED BY THE FIRE MARSHAL WILL BE ACTIVATED.
- WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPlicing IS ALLOWED. REFER TO THE SPECIFICATIONS FOR THE OWNER CABLING REQUIREMENTS.
- PROVIDE FIRE ALARM MAP OF THE BUILDING SHOWING ALL FIRE ALARM SYSTEM DEVICES. MAP TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
  - EXACT LOCATIONS OF ALL DEVICES, FIRE ALARM CONTROL PANEL AND NAC PANELS.
  - ROOM NAMES
  - ALL DEVICE ADDRESS SHALL BE INDICATED ON THE DRAWINGS.
  - ALL MAPS SHALL BE 11X17. PROVIDE ONE SET IN A SLEEVED 3 RING BINDER. DELIVER 3 RING BINDER WITH MAPS TO THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL AS PART OF THE CLOSE DOCUMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FIRE ALARM RISES CABLING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4" ALL CONDUIT, JUNCTION BOXES AND FITTINGS SHALL BE RED IN COLOR AND LABELED PER ALL OWNER STANDARDS. ALL CABLING SHALL BE RATED FOR USE IN A FIRE ALARM SYSTEM PER ALL NFPA AND NEC REQUIREMENTS.
- THE FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE FIRE ALARM SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS AND ADDRESS, CONDUIT SIZE AND ROUTING AND ALL CONDUIT SIZES (SEE SPEC FOR OWNER STANDARDS). TYPICAL RISERS AND CALCULATIONS WILL NOT BE ACCEPTED. ALL SHOP DRAWINGS SHALL BE PREPARED AND APPROVED BY A NICET CERTIFIED FIRE ALARM TECHNICIAN, LEVEL III OR GREATER.
- ALL NOTIFICATION DEVICE CIRCUIT VOLTAGE DROP CALCULATIONS SHALL BE DONE IN COMPLIANCE WITH NFPA 72. THE FIRE ALARM SYSTEM SUPPLIER TO DETERMINE THE AMOUNT NOTIFICATION DEVICE CIRCUITS THAT ARE REQUIRED BASED ON THE NUMBER OF THE NOTIFICATION DEVICES SHOWN ON THE DRAWINGS. THE FIRE ALARM SUPPLIER SHALL DETERMINE THE AMOUNT OF NAC PANELS THAT WILL BE REQUIRED BASED ON THE QUANTITY OF NOTIFICATION DEVICE CIRCUITS.
- FAN SHUT DOWN RELAYS IN THE AIR HANDLING EQUIPMENT SHALL BE NORMALLY ENERGIZED, AND CONNECTED THROUGH AND CONTROLLED BY A NORMALLY CLOSED CONTACT IN THE FIRE ALARM PANEL, OR A NORMALLY CLOSED CONTACT OF A REMOTE RELAY UNDER SUPERVISION BY THE MAIN PANEL. THE RELAYS WILL TRANSFER ON ALARM, AND SHALL NOT RESTORE UNTIL THE PANEL IS RESET.
- AUDIBLE ANNUNCIATION DEVICES SHALL BE SILENCE-ABLE VIA THE FACP FRONT PANEL WHILE ALLOWING VISUAL ANNUNCIATION DEVICES TO REMAIN IN ALARM.
- SUBMIT TO THE LOCAL AUTHORITY HAVING JURISDICTION, A MINIMUM OF TWO SETS OF PLANS, COMPLETE WITH MANUFACTURER OUT SHEETS, AND BATTERY CALCULATIONS AND FIRE COMMAND CENTER LAYOUT. PLANS MUST BE INK SIGNED BY A NICET LEVEL III OR BETTER IN FIRE ALARM SYSTEMS.
- VERIFY AND COMPLY WITH ALL CURRENT STATE, LOCAL AND NATIONAL CODES. COMPLY WITH ALL NEC AND NFPA REQUIREMENTS.
- UPON CLOSE OUT OF THE PROJECT THE FIRE ALARM SYSTEM SUPPLIER TO PROVIDE A CD(S) WITH CAD AND PDF DRAWINGS OF THE BUILDING FIRE ALARM MAP, CAD AND PDF AS-BUILT DRAWINGS, GENERAL PROGRAMMING, SITE SPECIFIC PROGRAMMING, O&M MANUALS FOR THE FIRE ALARM SYSTEM AND A TUTORIAL ON PROGRAMMING THE SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITRY AS REQUIRED ACCOMMODATING THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
- FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- POWER-LIMITED AND NON-POWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25 AWAY FROM ANY NON-POWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NON-POWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCKOUTS AND/OR SEPARATE CONDUITS.
- MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REGULATIONS.
- WHEN UTILIZING SHIELDED CABLES, TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK TO BACK END OF JUNCTION BOX.
- WHEN UTILIZING CLASS A CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
- FIRE ALARM CABLES INSTALLED IN VERTICAL RUNS AND PENETRATE MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL SHAFTS SHALL BE TYPE FPLR.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- LOCATE SMOKE DETECTORS A MINIMUM OF THREE(3) FEET FROM MECHANICAL DIFFUSERS.
- PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS.
- UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM, PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM INSPECTION.
- INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES. THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.

**SYSTEMS GENERAL NOTES:**

- COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
  - DO NOT LOCATE ANY FIRE ALARM DEVICES BEHIND DOORS OR SHELVING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SHELVEING LOCATIONS.
  - THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
  - ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
  - CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.
  - ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC., ARE SCHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTIFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.
  - FIRE ALARM, ASSOCIATED CONDUIT, WIRING AND DEVICES ARE TO REMAIN AND TO BE FULLY PROTECTED AND REMAIN FULLY OPERATIONAL DURING CONSTRUCTION PROCESS.
- FA1 EXTEND COMMUNICATION CABLES TO ADDRESSABLE FIRE ALARM DEVICES INCLUDING SMOKE AND HEAT DETECTORS, DUCT SMOKE DETECTORS, MONITOR MODULES, CONTROL MODULES, AND MANUAL PULL STATIONS. REFER TO THE FIRE ALARM PLANS FOR QUANTITIES, DEVICE TYPES AND LOCATIONS. INCLUDE 24VDC POWER WIRING AS REQUIRED FOR CONTROL MODULES AND DUCT SMOKE DETECTORS. PROVIDE A MINIMUM OF 20% SPARE CAPACITY, PER ADDRESSABLE LOOP, FOR FUTURE USE.
- FA2 EXTEND NOTIFICATION CABLES TO FIRE ALARM HORN/STROBES AND STROBES. REFER TO THE FIRE ALARM PLANS FOR QUANTITIES, DEVICE TYPES AND LOCATIONS. PROVIDE SYNC MODULES FOR STROBES AS REQUIRED TO COMPLY WITH ALL APPLICABLE ADA CODES. CIRCUIT PER ALL MANUFACTURER'S RECOMMENDATIONS. PROVIDE A MINIMUM OF 20% SPARE CAPACITY, IN FACP AND EACH NAC PANEL, FOR FUTURE USE.
- FA5 EXTEND TWO (2) 1" CONDUITS, ONE FOR COMMUNICATION CABLING AND ONE SPARE.
- Y4 FIRE ALARM, ASSOCIATED CONDUIT, WIRING AND DEVICES ARE TO REMAIN AND TO BE FULLY PROTECTED AND REMAIN FULLY OPERATIONAL DURING CONSTRUCTION PROCESS.



**1 FIRE RISER DIAGRAM HORN ALARM SYSTEM**  
SCALE: NTS

ARCHITECTS INFORMATION

SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t 801-298-1369  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP  
SCOTT A. HARDY  
STATE OF UTAH  
7531217-2200  
2024-01-05

CODE OFFICIAL STAMP  
REVIEWED FOR CODE COMPLIANCE  
03/26/2024  
BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

PROJECT NAME:  
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940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISION ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P (801) 534-1130  
F (801) 534-1080  
www.envisioneng.com

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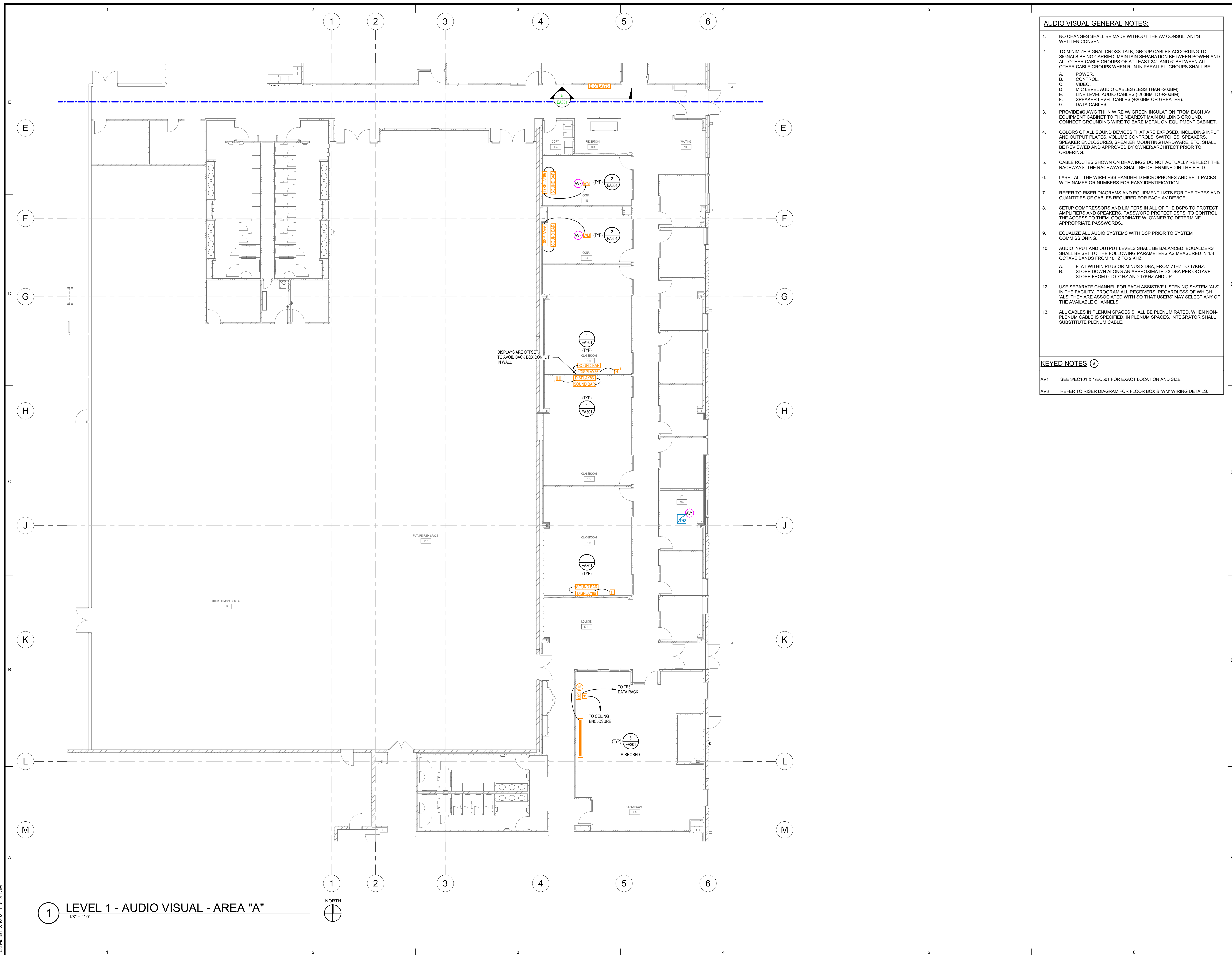
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SHEET TITLE:  
**FIRE RISER  
DIAGRAM HORN  
ALARM SYSTEM**

SHEET NUMBER:  
**EY701**

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**AUDIO VISUAL GENERAL NOTES:**

- NO CHANGES SHALL BE MADE WITHOUT THE AV CONSULTANT'S WRITTEN CONSENT.
- TO MINIMIZE SIGNAL CROSS TALK, GROUP CABLES ACCORDING TO SIGNALS BEING CARRIED. MAINTAIN SEPARATION BETWEEN POWER AND ALL OTHER CABLE GROUPS OF AT LEAST 24" AND 6" BETWEEN ALL OTHER CABLE GROUPS WHEN RUN IN PARALLEL. GROUPS SHALL BE:
  - POWER.
  - CONTROL.
  - VIDEO.
  - MIC LEVEL AUDIO CABLES (LESS THAN +20dBm).
  - LINE LEVEL AUDIO CABLES (+20dBm TO +20dBm).
  - SPEAKER LEVEL CABLES (+20dBm OR GREATER).
  - DATA CABLES.
- PROVIDE #6 AWG THHN WIRE W/ GREEN INSULATION FROM EACH AV EQUIPMENT CABINET TO THE NEAREST MAIN BUILDING GROUND. CONNECT GROUNDING WIRE TO BARE METAL ON EQUIPMENT CABINET.
- COLORS OF ALL SOUND DEVICES THAT ARE EXPOSED, INCLUDING INPUT AND OUTPUT PLATES, VOLUME CONTROLS, SWITCHES, SPEAKERS, SPEAKER ENCLOSURES, SPEAKER MOUNTING HARDWARE, ETC. SHALL BE REVIEWED AND APPROVED BY OWNER/ARCHITECT PRIOR TO ORDERING.
- CABLE ROUTES SHOWN ON DRAWINGS DO NOT ACTUALLY REFLECT THE RACEWAYS. THE RACEWAYS SHALL BE DETERMINED IN THE FIELD.
- LABEL ALL THE WIRELESS HANDHELD MICROPHONES AND BELT PACKS WITH NAMES OR NUMBERS FOR EASY IDENTIFICATION.
- REFER TO RISER DIAGRAMS AND EQUIPMENT LISTS FOR THE TYPES AND QUANTITIES OF CABLES REQUIRED FOR EACH AV DEVICE.
- SETUP COMPRESSORS AND LIMITERS IN ALL OF THE DSPS TO PROTECT AMPLIFIERS AND SPEAKERS. PASSWORD PROTECT DSPS. TO CONTROL THE ACCESS TO THEM. COORDINATE W. OWNER TO DETERMINE APPROPRIATE PASSWORDS.
- EQUALIZE ALL AUDIO SYSTEMS WITH DSP PRIOR TO SYSTEM COMMISSIONING.
- AUDIO INPUT AND OUTPUT LEVELS SHALL BE BALANCED. EQUALIZERS SHALL BE SET TO THE FOLLOWING PARAMETERS AS MEASURED IN 1/3 OCTAVE BANDS FROM 1KHZ TO 2 KHZ.
  - FLAT WITHIN PLUS OR MINUS 2 DBA, FROM 71HZ TO 17KHZ.
  - SLOPE DOWN ALONG AN APPROXIMATED 3 DBA PER OCTAVE SLOPE FROM 0 TO 71HZ AND 17KHZ AND UP.
- USE SEPARATE CHANNEL FOR EACH ASSISTIVE LISTENING SYSTEM 'ALS' IN THE FACILITY. PROGRAM ALL RECEIVERS, REGARDLESS OF WHICH ALS THEY ARE ASSOCIATED WITH SO THAT USERS' MAY SELECT ANY OF THE AVAILABLE CHANNELS.
- ALL CABLES IN PLENUM SPACES SHALL BE PLENUM RATED. WHEN NON-PLENUM CABLE IS SPECIFIED, IN PLENUM SPACES, INTEGRATOR SHALL SUBSTITUTE PLENUM CABLE.

**KEYED NOTES**

AV1 SEE 3/EC101 & 1/EC501 FOR EXACT LOCATION AND SIZE

AV3 REFER TO RISER DIAGRAM FOR FLOOR BOX & 'WM' WIRING DETAILS.

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1366  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1190  
 F (801) 534-1080  
 www.envisioneng.com

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| NO. | DATE     | DESCRIPTION |
|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
 COPYRIGHT: © 2023 SPE ARCHITECTS

SHEET TITLE:

**FLOOR PLAN -  
 LEVEL 1 - AUDIO  
 VISUAL - AREA  
 "A"**

SHEET NUMBER:

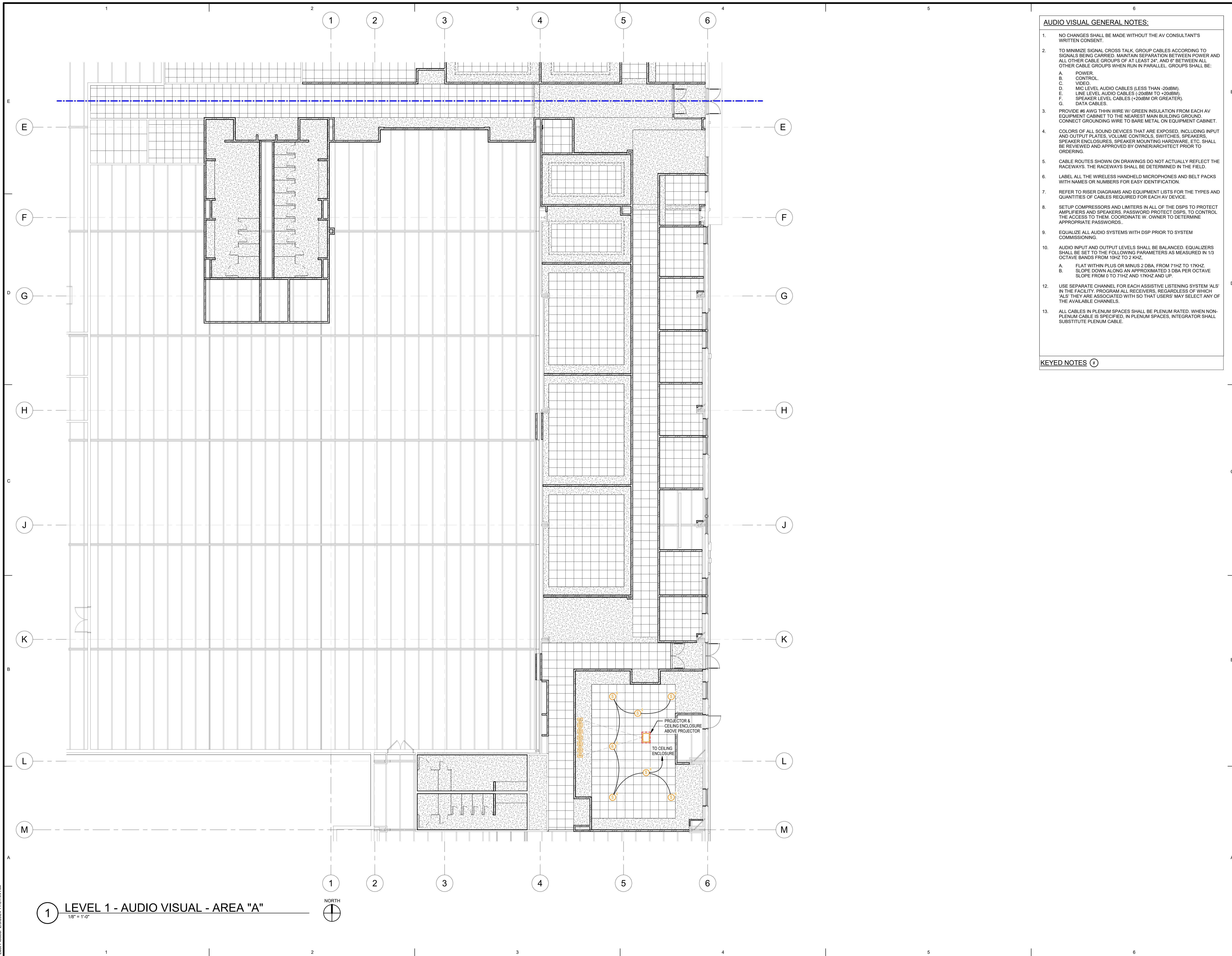
**EA101**

1/8" = 1'-0"

NORTH

Last Printed: 2/5/2024 11:51:44 AM





- AUDIO VISUAL GENERAL NOTES:**
- NO CHANGES SHALL BE MADE WITHOUT THE AV CONSULTANT'S WRITTEN CONSENT.
  - TO MINIMIZE SIGNAL CROSS TALK, GROUP CABLES ACCORDING TO SIGNALS BEING CARRIED. MAINTAIN SEPARATION BETWEEN POWER AND ALL OTHER CABLE GROUPS OF AT LEAST 24" AND 6" BETWEEN ALL OTHER CABLE GROUPS WHEN RUN IN PARALLEL. GROUPS SHALL BE:
    - POWER.
    - CONTROL.
    - VIDEO.
    - MIC LEVEL AUDIO CABLES (LESS THAN -20dBm).
    - LINE LEVEL AUDIO CABLES (-20dBm TO +20dBm).
    - SPEAKER LEVEL CABLES (+20dBm OR GREATER).
    - DATA CABLES.
  - PROVIDE #6 AWG THHN WIRE W/ GREEN INSULATION FROM EACH AV EQUIPMENT CABINET TO THE NEAREST MAIN BUILDING GROUND. CONNECT GROUNDING WIRE TO BARE METAL ON EQUIPMENT CABINET.
  - COLORS OF ALL SOUND DEVICES THAT ARE EXPOSED, INCLUDING INPUT AND OUTPUT PLATES, VOLUME CONTROLS, SWITCHES, SPEAKERS, SPEAKER ENCLOSURES, SPEAKER MOUNTING HARDWARE, ETC. SHALL BE REVIEWED AND APPROVED BY OWNER/ARCHITECT PRIOR TO ORDERING.
  - CABLE ROUTES SHOWN ON DRAWINGS DO NOT ACTUALLY REFLECT THE RACEWAYS. THE RACEWAYS SHALL BE DETERMINED IN THE FIELD.
  - LABEL ALL THE WIRELESS HANDHELD MICROPHONES AND BELT PACKS WITH NAMES OR NUMBERS FOR EASY IDENTIFICATION.
  - REFER TO RISER DIAGRAMS AND EQUIPMENT LISTS FOR THE TYPES AND QUANTITIES OF CABLES REQUIRED FOR EACH AV DEVICE.
  - SETUP COMPRESSORS AND LIMITERS IN ALL OF THE DSPS TO PROTECT AMPLIFIERS AND SPEAKERS, PASSWORD PROTECT DSPS, TO CONTROL THE ACCESS TO THEM. COORDINATE W. OWNER TO DETERMINE APPROPRIATE PASSWORDS.
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  - AUDIO INPUT AND OUTPUT LEVELS SHALL BE BALANCED. EQUALIZERS SHALL BE SET TO THE FOLLOWING PARAMETERS AS MEASURED IN 1/3 OCTAVE BANDS FROM 100HZ TO 2 KHZ.
    - FLAT WITHIN PLUS OR MINUS 2 DBA, FROM 71HZ TO 17KHZ.
    - SLOPE DOWN ALONG AN APPROXIMATED 3 DBA PER OCTAVE SLOPE FROM 0 TO 71HZ AND 17KHZ AND UP.
  - USE SEPARATE CHANNEL FOR EACH ASSISTIVE LISTENING SYSTEM 'ALS' IN THE FACILITY. PROGRAM ALL RECEIVERS, REGARDLESS OF WHICH ALS THEY ARE ASSOCIATED WITH SO THAT USERS' MAY SELECT ANY OF THE AVAILABLE CHANNELS.
  - ALL CABLES IN PLENUM SPACES SHALL BE PLENUM RATED. WHEN NON-PLENUM CABLE IS SPECIFIED, IN PLENUM SPACES, INTEGRATOR SHALL SUBSTITUTE PLENUM CABLE.
- KEYED NOTES** 1

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t 801-298-1369  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



CODE OFFICIAL STAMP



PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISSION ENGINEERING  
 240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1180  
 www.envisioneng.com

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|-----|----------|-------------|
| 01  | 02/05/24 | PERMIT SET  |

OWNER PROJECT #: 24139210  
 SPE PROJECT #: 22-38  
 DRAWN BY: MH  
 CHECKED BY: SH  
 DESIGNED BY: MH  
 COPYRIGHT: © 2023 SPE ARCHITECTS

SHEET TITLE:

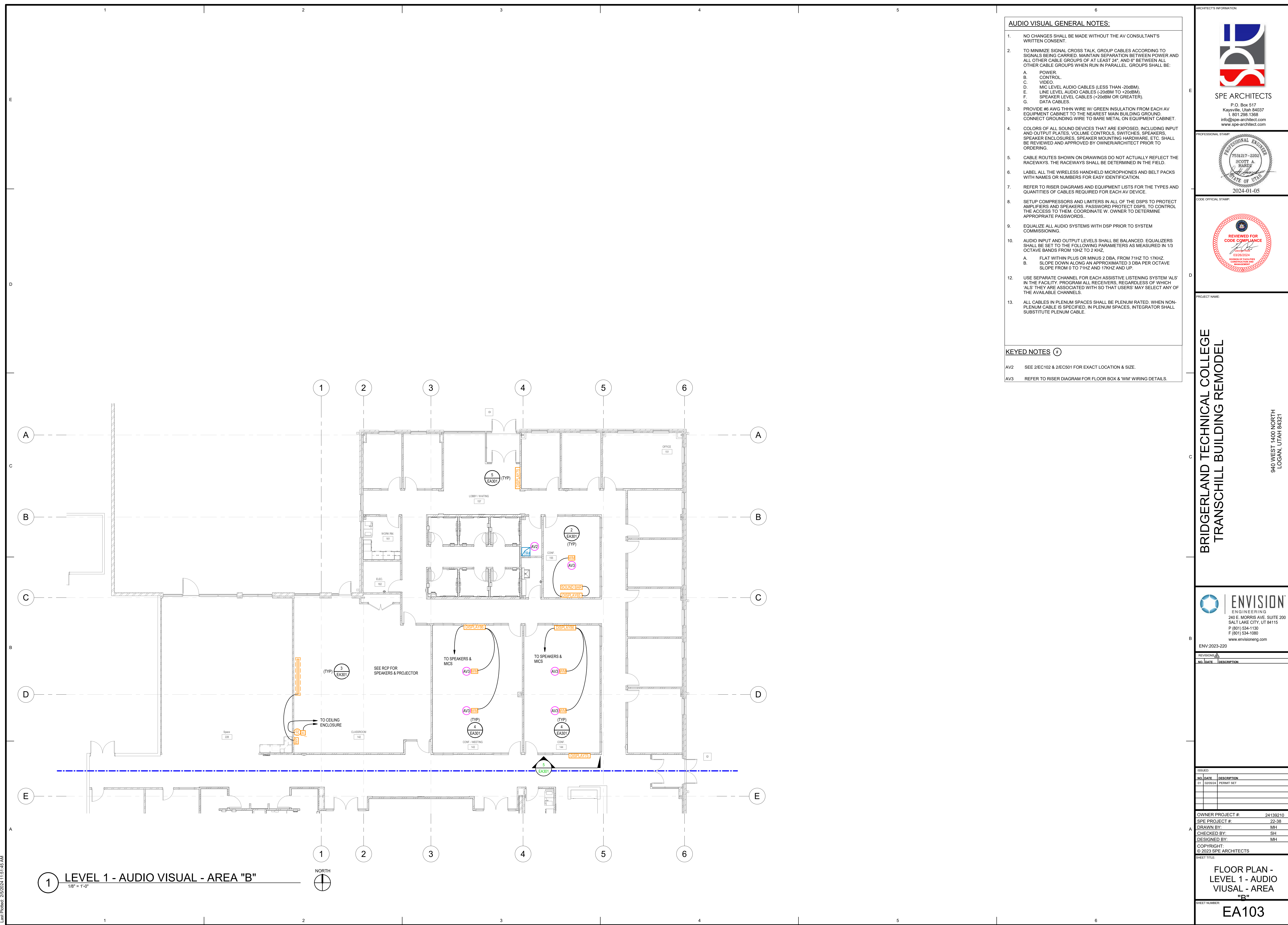
**CEILING PLAN -  
LEVEL 1 - AUDIO  
VIUSAL - AREA  
"A"**

SHEET NUMBER:

**EA102**

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**AUDIO VISUAL GENERAL NOTES:**

- NO CHANGES SHALL BE MADE WITHOUT THE AV CONSULTANT'S WRITTEN CONSENT.
- TO MINIMIZE SIGNAL CROSS TALK, GROUP CABLES ACCORDING TO SIGNALS BEING CARRIED. MAINTAIN SEPARATION BETWEEN POWER AND ALL OTHER CABLE GROUPS OF AT LEAST 24" AND 6" BETWEEN ALL OTHER CABLE GROUPS WHEN RUN IN PARALLEL. GROUPS SHALL BE:
  - POWER.
  - CONTROL.
  - VIDEO.
  - MIC LEVEL AUDIO CABLES (LESS THAN -20dBm).
  - LINE LEVEL AUDIO CABLES (-20dBm TO +20dBm).
  - SPEAKER LEVEL CABLES (+20dBm OR GREATER).
  - DATA CABLES.
- PROVIDE #6 AWG THHN WIRE W/ GREEN INSULATION FROM EACH AV EQUIPMENT CABINET TO THE NEAREST MAIN BUILDING GROUND. CONNECT GROUNDING WIRE TO BARE METAL ON EQUIPMENT CABINET.
- COLORS OF ALL SOUND DEVICES THAT ARE EXPOSED, INCLUDING INPUT AND OUTPUT PLATES, VOLUME CONTROLS, SWITCHES, SPEAKERS, SPEAKER ENCLOSURES, SPEAKER MOUNTING HARDWARE, ETC. SHALL BE REVIEWED AND APPROVED BY OWNER/ARCHITECT PRIOR TO ORDERING.
- CABLE ROUTES SHOWN ON DRAWINGS DO NOT ACTUALLY REFLECT THE RACEWAYS. THE RACEWAYS SHALL BE DETERMINED IN THE FIELD.
- LABEL ALL THE WIRELESS HANDHELD MICROPHONES AND BELT PACKS WITH NAMES OR NUMBERS FOR EASY IDENTIFICATION.
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  - SLOPE DOWN ALONG AN APPROXIMATED 3 DBA PER OCTAVE SLOPE FROM 0 TO 71HZ AND 17KHZ AND UP.
- USE SEPARATE CHANNEL FOR EACH ASSISTIVE LISTENING SYSTEM 'ALS' IN THE FACILITY. PROGRAM ALL RECEIVERS, REGARDLESS OF WHICH ALS THEY ARE ASSOCIATED WITH SO THAT USERS MAY SELECT ANY OF THE AVAILABLE CHANNELS.
- ALL CABLES IN PLENUM SPACES SHALL BE PLENUM RATED. WHEN NON-PLENUM CABLE IS SPECIFIED, IN PLENUM SPACES, INTEGRATOR SHALL SUBSTITUTE PLENUM CABLE.

**KEYED NOTES**

AV2 SEE 2/EC102 & 2/EC501 FOR EXACT LOCATION & SIZE.

AV3 REFER TO RISER DIAGRAM FOR FLOOR BOX & 'WM' WIRING DETAILS.

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t 801-298-1369  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

**ENVISION**  
 ENGINEERING  
 240 E. MORRIS AVE, SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1190  
 F (801) 534-1080  
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|                  |                       |
|------------------|-----------------------|
| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
| COPYRIGHT:       | © 2023 SPE ARCHITECTS |

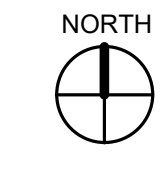
SHEET TITLE:

**FLOOR PLAN -  
 LEVEL 1 - AUDIO  
 VISUAL - AREA  
 "B"**

SHEET NUMBER:

**EA103**

**1 LEVEL 1 - AUDIO VISUAL - AREA "B"**  
 1/8" = 1'-0"



Last Pooled: 2/5/2024 11:51:45 AM



**AUDIO VISUAL GENERAL NOTES:**

1. NO CHANGES SHALL BE MADE WITHOUT THE AV CONSULTANT'S WRITTEN CONSENT.
2. TO MINIMIZE SIGNAL CROSS TALK, GROUP CABLES ACCORDING TO SIGNALS BEING CARRIED. MAINTAIN SEPARATION BETWEEN POWER AND ALL OTHER CABLE GROUPS OF AT LEAST 24" AND 6" BETWEEN ALL OTHER CABLE GROUPS WHEN RUN IN PARALLEL. GROUPS SHALL BE:
  - A. POWER.
  - B. CONTROL.
  - C. VIDEO.
  - D. MIC LEVEL AUDIO CABLES (LESS THAN -20dBm).
  - E. LINE LEVEL AUDIO CABLES (-20dBm TO +20dBm).
  - F. SPEAKER LEVEL CABLES (+20dBm OR GREATER).
  - G. DATA CABLES.
3. PROVIDE #6 AWG THHN WIRE W/ GREEN INSULATION FROM EACH AV EQUIPMENT CABINET TO THE NEAREST MAIN BUILDING GROUND. CONNECT GROUNDING WIRE TO BARE METAL ON EQUIPMENT CABINET.
4. COLORS OF ALL SOUND DEVICES THAT ARE EXPOSED, INCLUDING INPUT AND OUTPUT PLATES, VOLUME CONTROLS, SWITCHES, SPEAKERS, SPEAKER ENCLOSURES, SPEAKER MOUNTING HARDWARE, ETC. SHALL BE REVIEWED AND APPROVED BY OWNER/ARCHITECT PRIOR TO ORDERING.
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9. EQUALIZE ALL AUDIO SYSTEMS WITH DSP PRIOR TO SYSTEM COMMISSIONING.
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  - A. FLAT WITHIN PLUS OR MINUS 2 DBA, FROM 71HZ TO 17KHZ.
  - B. SLOPE DOWN ALONG AN APPROXIMATED 3 DBA PER OCTAVE SLOPE FROM 0 TO 71HZ AND 17KHZ AND UP.
12. USE SEPARATE CHANNEL FOR EACH ASSISTIVE LISTENING SYSTEM 'ALS' IN THE FACILITY. PROGRAM ALL RECEIVERS, REGARDLESS OF WHICH ALS THEY ARE ASSOCIATED WITH SO THAT USERS MAY SELECT ANY OF THE AVAILABLE CHANNELS.
13. ALL CABLES IN PLENUM SPACES SHALL BE PLENUM RATED. WHEN NON-PLENUM CABLE IS SPECIFIED, IN PLENUM SPACES, INTEGRATOR SHALL SUBSTITUTE PLENUM CABLE.

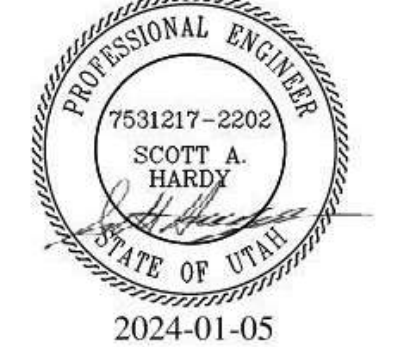
**KEYED NOTES** 

ARCHITECTS INFORMATION



**SPE ARCHITECTS**  
 P.O. Box 517  
 Kaysville, Utah 84037  
 t. 801.298.1369  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP



PROFESSIONAL NUMBER  
 7531217-2201  
 SCOTT A. HARDY  
 STATE OF UTAH  
 2024-01-05

CODE OFFICIAL STAMP



REVIEWED FOR  
 CODE COMPLIANCE  
 03/26/2024  
 BRIDGERLAND TECHNICAL COLLEGE  
 TRANSSCHILL BUILDING REMODEL

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
 TRANSSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
 LOGAN, UTAH 84321

ENVISION ENGINEERING

240 E. MORRIS AVE. SUITE 200  
 SALT LAKE CITY, UT 84115  
 P (801) 534-1130  
 F (801) 534-1180  
 www.envisioneng.com

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| NO. DATE DESCRIPTION   |                       |
| 01 02/05/24 PERMIT SET |                       |
| OWNER PROJECT #:       | 24139210              |
| SPE PROJECT #:         | 22-38                 |
| DRAWN BY:              | MH                    |
| CHECKED BY:            | SH                    |
| DESIGNED BY:           | MH                    |
| COPYRIGHT:             | © 2023 SPE ARCHITECTS |

SHEET TITLE:

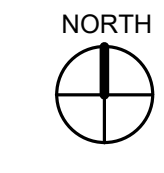
**CEILING PLAN -  
 LEVEL 1 - AUDIO  
 VIUSAL - AREA  
 "B"**

SHEET NUMBER:

**EA104**

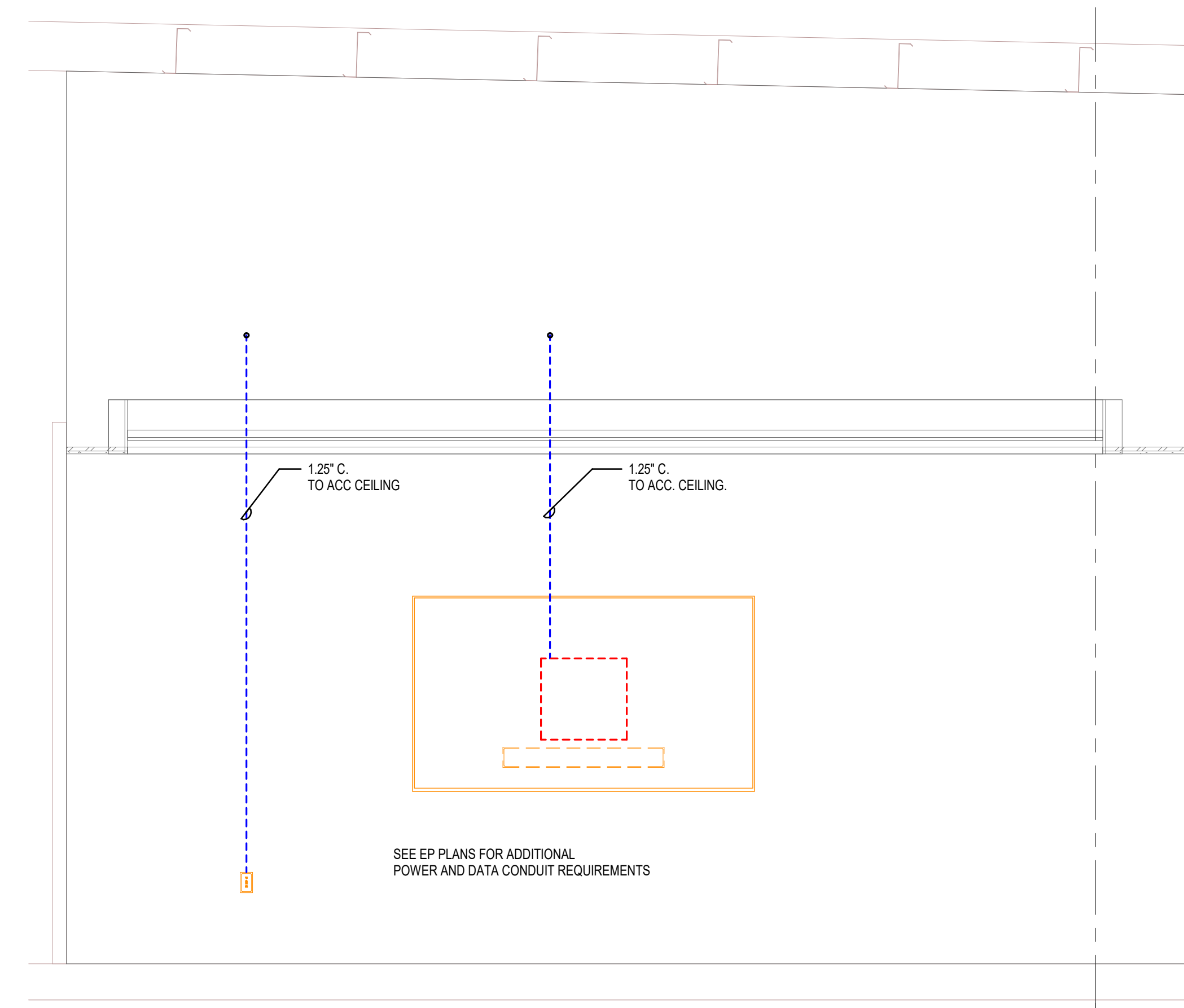


**1 LEVEL 1 - AUDIO VISUAL - AREA "B"**  
 1/8" = 1'-0"

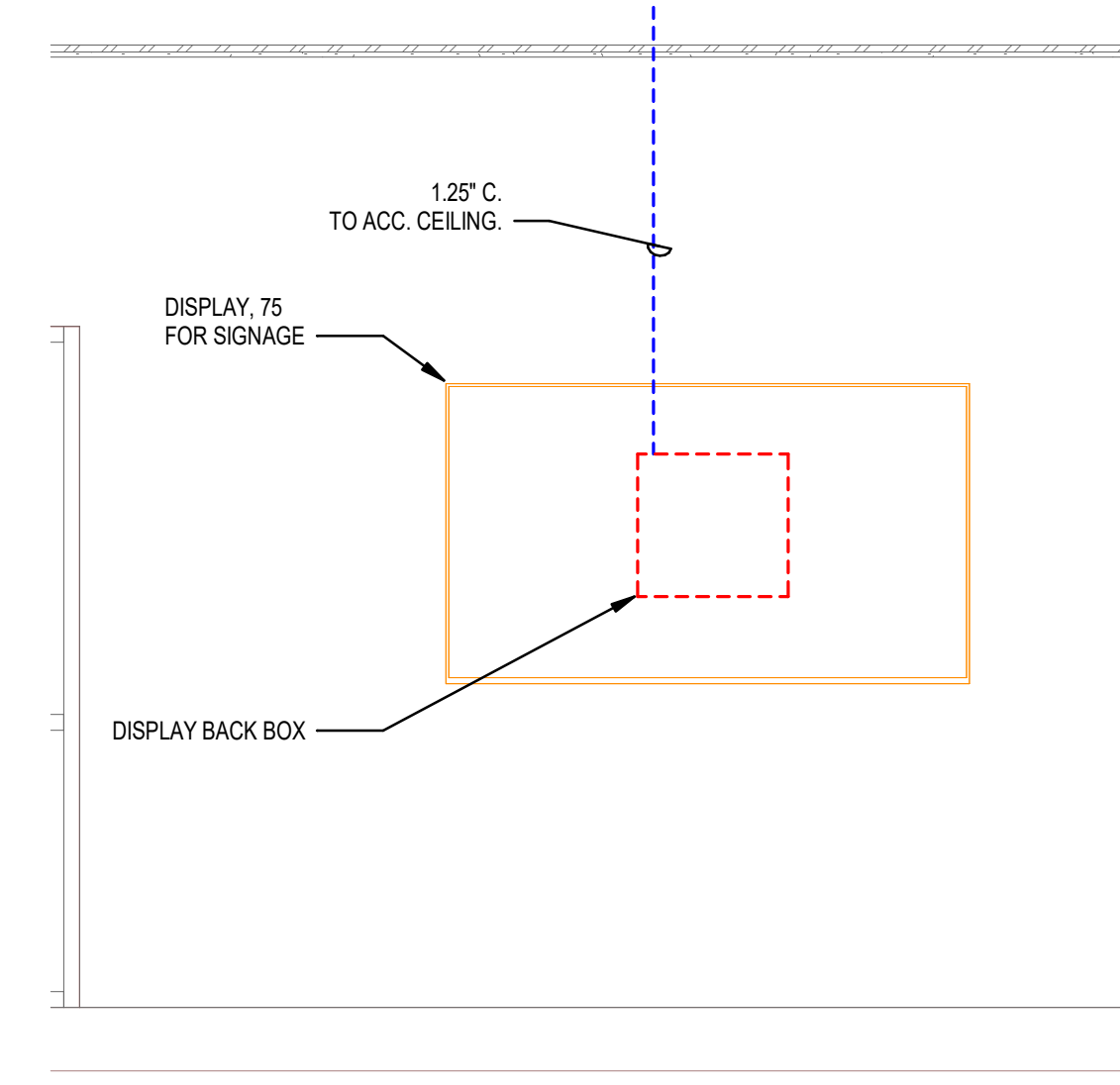


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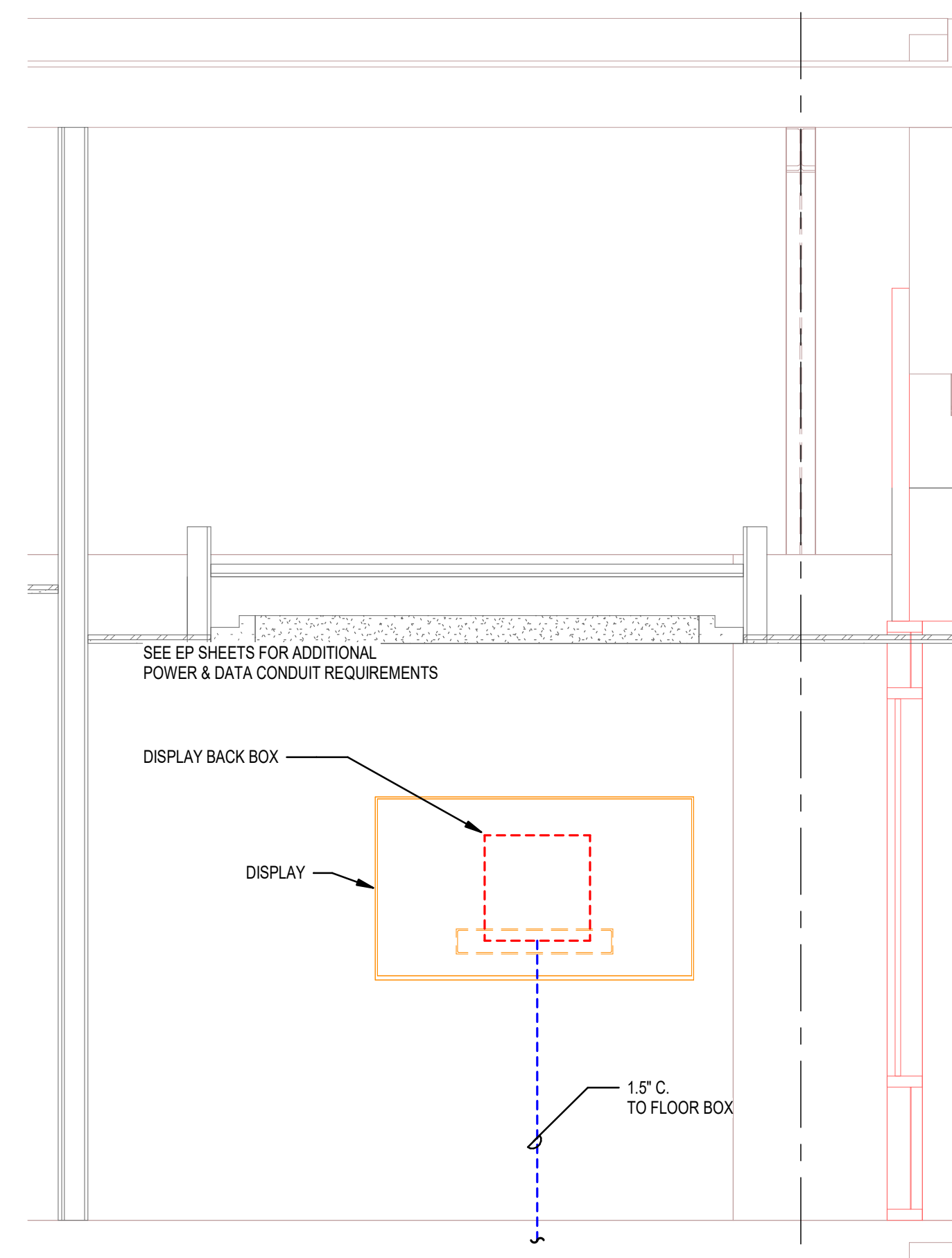




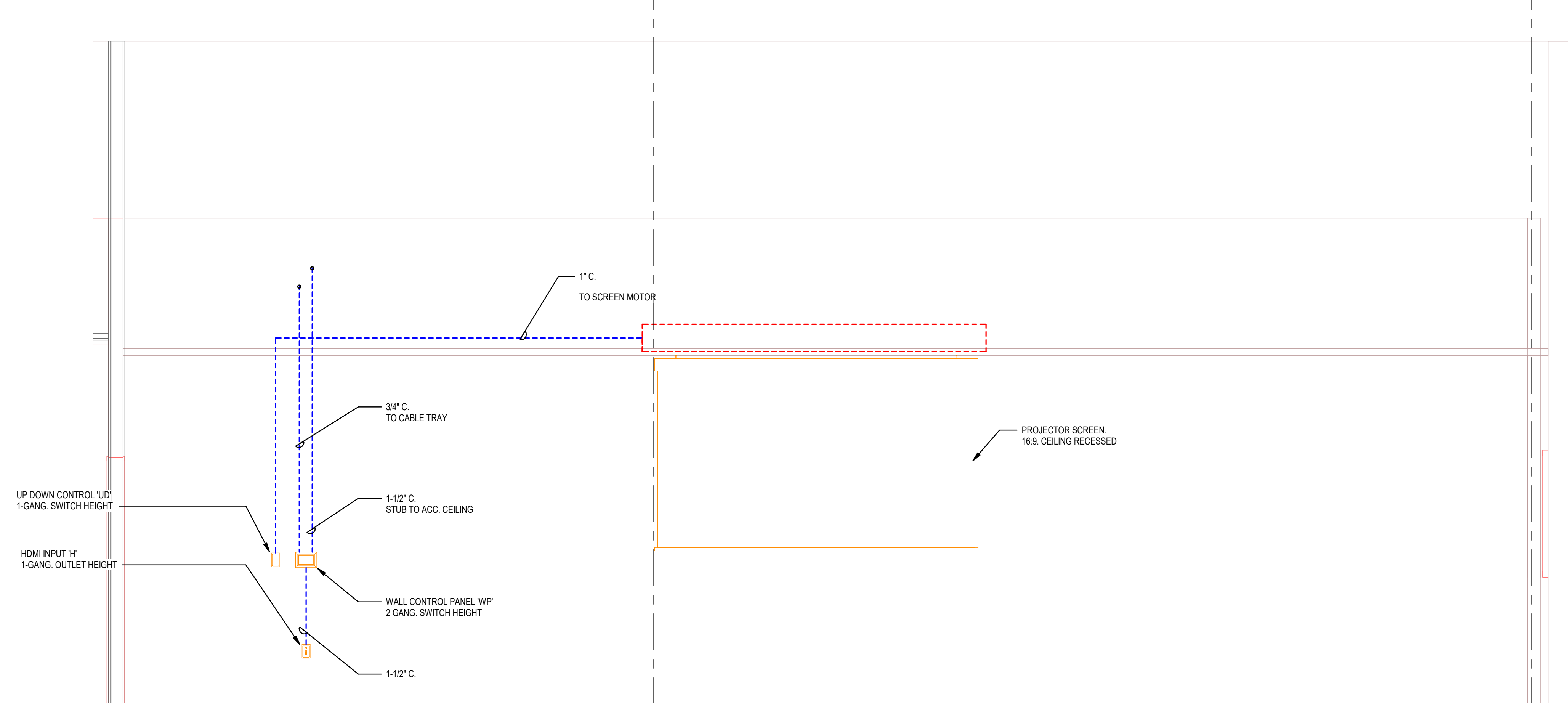
1 SMALL CLASSROOM DISPLAY ELEVATION (TYP)  
SCALE: 1/2" = 1'-0"



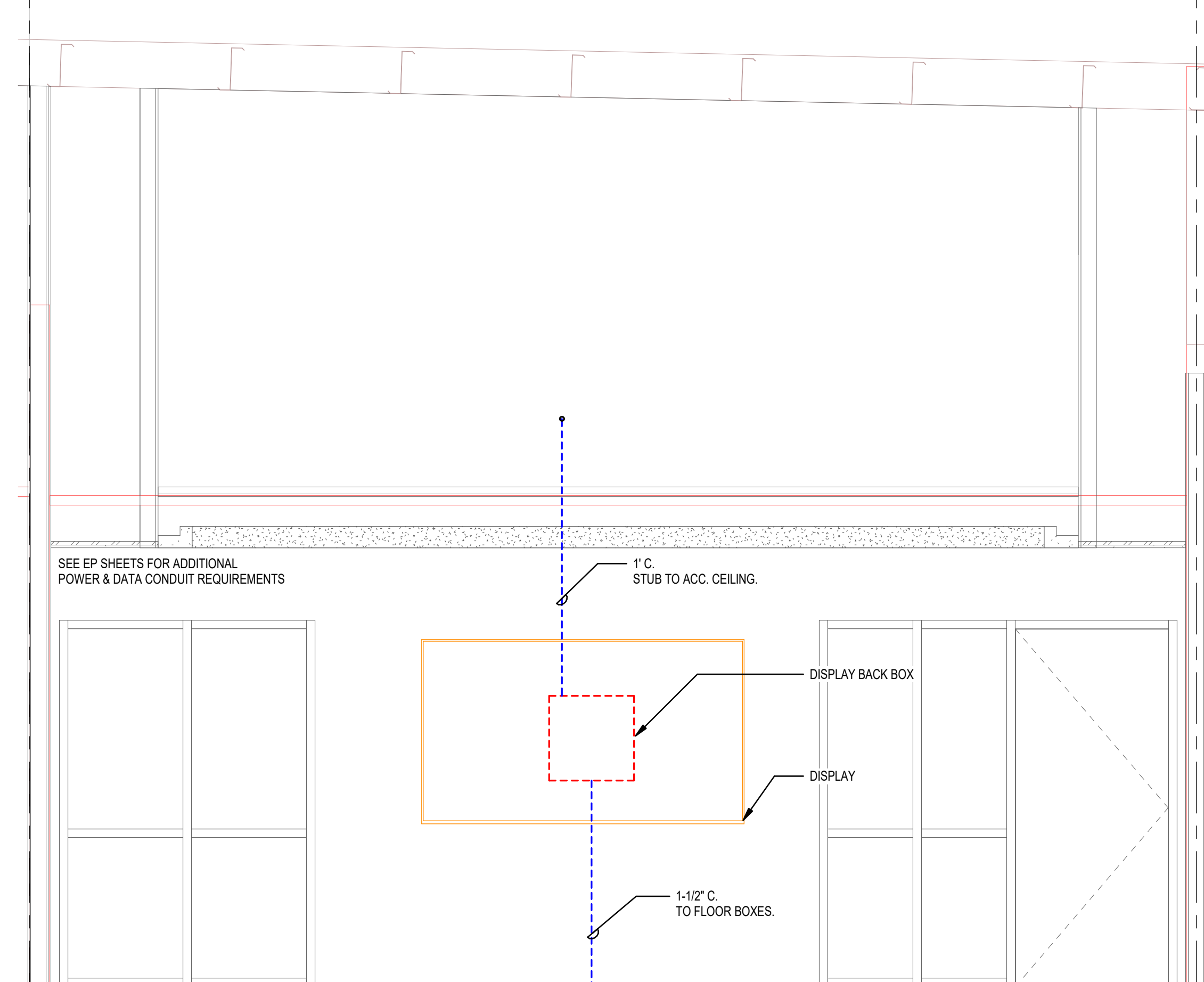
5 DIGITAL SIGNAGE, DISPLAY SECTION (TYP)  
SCALE: 1/2" = 1'-0"



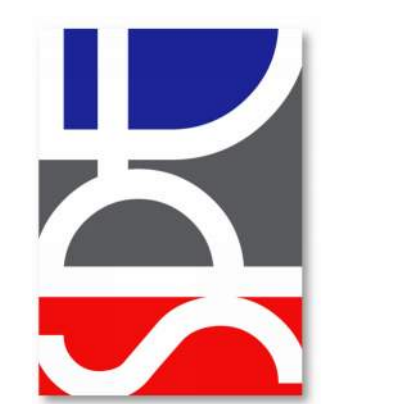
2 SMALL CONFERENCE ROOM ELEVATION (TYP)  
SCALE: 1/2" = 1'-0"



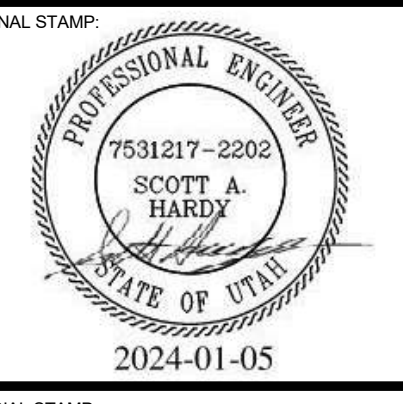
3 LARGE CLASSROOM, SCREEN ELEVATION (TYP)  
SCALE: 1/2" = 1'-0"



4 LARGE CONFERENCE ROOM DISPLAY ELEVATION (TYP)  
SCALE: 1/2" = 1'-0"



**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
T: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com



BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

**ENVISION**  
ENGINEERING  
240 E. MORRIS AVE. SUITE 200  
SALT LAKE CITY, UT 84115  
P: (801) 534-1130  
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ISSUED:  
OWNER PROJECT #: 24139210  
SPE PROJECT #: 22-38  
DRAWN BY: MH  
CHECKED BY: SH  
DESIGNED BY: MH  
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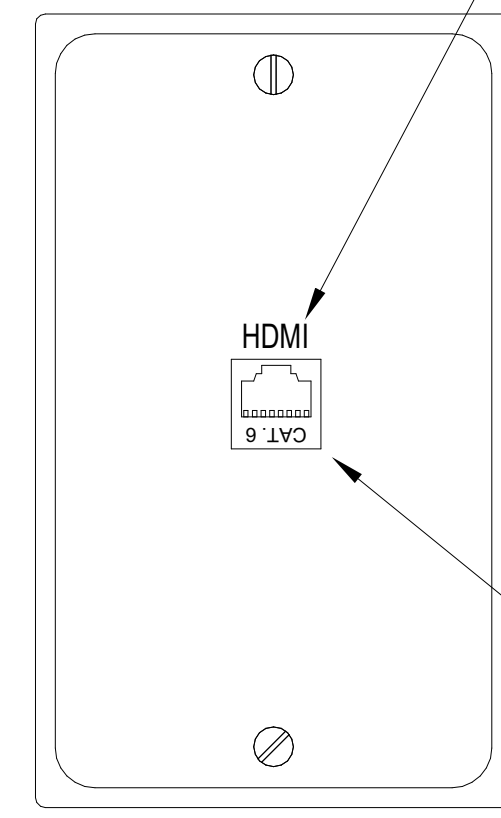
SHEET TITLE:  
**ENLARGED AV SECTIONS & ELEVATIONS**

SHEET NUMBER:  
**EA301**



NOT USED

1 UNUSED  
SCALE: NONE

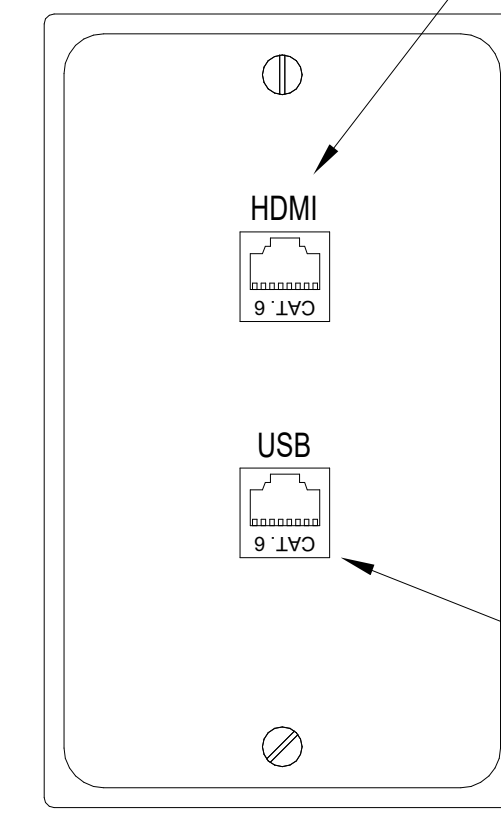


CUSTOM ENGRAVED TEXT,  
FILLED CONTRASTING COLOR.  
(TYP)

1 GANG PLATE, 1/16" ALUMINUM  
COORDINTE COLOR W/ ARCHITECT

KEystone JACK,  
ENSURE OPENING IS SIZED  
FOR CHOSEN JACK BRAND.  
JACK TO MATCH CABLE BRAND

2 'HUPP' HDMI PATCH PLATE  
SCALE: NONE



CUSTOM ENGRAVED TEXT,  
FILLED CONTRASTING COLOR.  
(TYP)

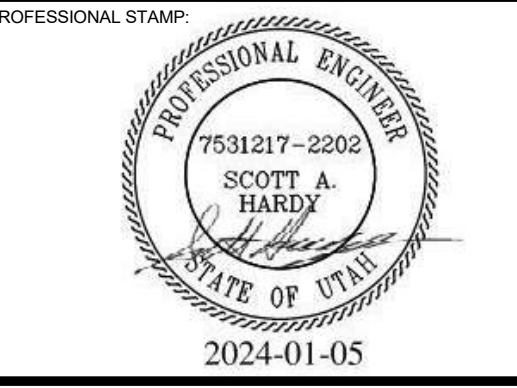
1 GANG PLATE, 1/16" ALUMINUM  
COORDINTE COLOR W/ ARCHITECT

KEystone JACK,  
ENSURE OPENING IS SIZED  
FOR CHOSEN JACK BRAND.  
JACK TO MATCH CABLE BRAND

3 'HUPP' HDMI & USB PATHCH PLATE  
SCALE: NONE



SPE ARCHITECTS  
P.O. Box 517  
Kaysville, Utah 84037  
t: 801-298-1368  
info@spe-architect.com  
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PROJECT NAME:

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TRANSCHILL BUILDING REMODEL

940 WEST 1400 NORTH  
LOGAN, UTAH 84321



ENV-2023-220

REVISIONS:

NO. DATE DESCRIPTION

01 02/05/24 PERMIT SET

ISSUED:

NO. DATE DESCRIPTION

01 02/05/24 PERMIT SET

OWNER PROJECT #:

24139210

SPE PROJECT #:

22-38

DRAWN BY:

MH

CHECKED BY:

SH

DESIGNED BY:

MH

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SHEET TITLE:

ENLARGED AV  
DETAILS

SHEET NUMBER:

EA501



| AV SYSTEM - SMALL CLASSROOM - EQUIPMENT LIST |                         |          |          |              |                                      |                                    |
|--|-------------------------|----------|----------|--------------|--------------------------------------|------------------------------------|
| SYMBOL                                       | DESCRIPTION             | QTY/ROOM | SUPPLIER | MODEL        | ROUGH-IN                             | CABLE                              |
| [H]  | HDMI TX, WALL PLATE     | 1        | KRAMER   | WP-680T      | 2 GANG BOX, DEEP 1-1/4" C TO DISPLAY | WEST PENN 4346AF                   |
| [HDMI RX]                                    | HDMI RX, BOX            | 1        | KRAMER   | TP-580RXR    | 2 GANG BOX, DEEP, BEHIND DISPLAY     | 15' CERTIFIED HDMI HIGHSPEED CABLE |
| [HDMI TX]                                    | HDMI STREAMING RECEIVER | 1        | KRAMER   | VIA CONNECT2 | MOUNT BEHIND DISPLAY                 | 6' HDMI CERTIFIED HIGHSPEED CABLE  |
| [DISPLAY86]                                  | DISPLAY, 86"            | 1        | LG       | 86UR40S      |                                      | GIGABIT PATCHCABLE                 |
|  | DISPLAY MOUNT           | 1        | CHIEF    | XTM1U        |                                      |                                    |
| [SOUND BAR]                                  | SOUND BAR               | 1        | JBL      | PSB-1 PRO    |                                      | INCLUDED                           |

AR = AS REQUIRED; OFP = OBTAIN FROM PLANS; NR = NO REQUIREMENT; OFCI = OWNER FURNISHED CONTRACTOR INSTALLED; OFE = OWNER FURNISHED EQUIPMENT;

| AV SYSTEM - LARGE CLASSROOM - EQUIPMENT LIST |  |          |                |                     |  |   |
|--|--|----------|----------------|---------------------|--|---|
| SYMBOL                                       | DESCRIPTION                                | QTY/ROOM | SUPPLIER       | MODEL               | ROUGH-IN   | CABLE   |
| [H]  | HDMI TX, WALL PLATE                        | 1        | KRAMER         | WP-680T             | 2-GANG BOX, DEEP 1.25" C. TO ACC. CEILING                    | WEST PENN 4246AF OR EQUAL   |
| [HDMI RX]                                    | HDMI RX, BOX                               | 1        | KRAMER         | TP-580RXR           | MOUNT IN CEILING ENCLOSURE                                   | CERTIFIED HDMI HIGHSPEED CABLE, 15'                                     |
| [HDSR]                                       | HDMI STREAMING RECEIVER                    | 1        | KRAMER         | KRAMER VIA CONNECT2 | MOUNT BELOW CEILING ENCLOSURE                                | CERTIFIED HDMI HIGHSPEED CABLE, 3'                                      |
| [PROJECTOR]                                  | PROJECTOR, POLE MOUNT                      | 1        | EPSON          | L520U               |  |   |
|  | PROJECTOR MOUNT PIPE, BLACK, CUT TO LENGTH | 1        | CHIEF          | RPM4U               |  | CERTIFIED HDMI HIGHSPEED CABLE, 10' COIL EXTRA IN CEILING BOX           |
|  | STORAGE BOX, SUSPENDED CEILING, 2X2        | 1        | CHIEF          | CUSTOM              |  |   |
| [CIB]  | CONTROL INTERFACE BOX                      | 1        | BIAMP          | IMPERA TANGO        |  | CERTIFIED TO 6BPS PATCH CABLE WEST PENN 25189B SERIAL CONNECT CABLE, 6' |
|  | PROJECTOR SCREEN, 110V, RECESSED           | 1        | DA-LITE        | 7902SL              | HOLE IN DRYWALL, 110V POWER, SUPPORT FRAMING.                |   |
|  | LOW VOLTAGE CONTROL                        | 1        | DA-LITE        | LVC-IV              | MOUNT IN CEILING   | WEST PENN 25188   |
| [UD]   | UP/DOWN CONTROL                            | 1        | DA-LITE        | INCLUDED W SCREEN   |  |   |
| [MA]   | MIXER AMPLIFIER, DIGITAL CONTROLLED        | 1        | BLAZE          | 112                 | 1-GANG BOX, DEEP 3/4" C TO ACC. CEILING                      |   |
| [WP]   | WALL CONTROL, TOUCH PANEL, 7"              | 1        | BIAMP          | APPRIMO TOUCH 7     | 2 GANG BOX, 3/4" C TO ACC. CEILING                           | WEST PENN 25436A  |
| [S <sub>6</sub> ]                            | SPEAKERS, 70V                              | OFP      | BIAMP          | DX-106              |  | WEST PENN 25225   |
| [WMR]  | WIRELESS MICROPHONE RECEIVER KIT, LAPEL    | 1        | AUDIO TECHNICA | ATW-3211832         | INSTALL MOUNT ANT. IN CEILING BOX BELOW CEILING. SEE DETAIL. | PRE-MADE XLR PATCH CABLE  |

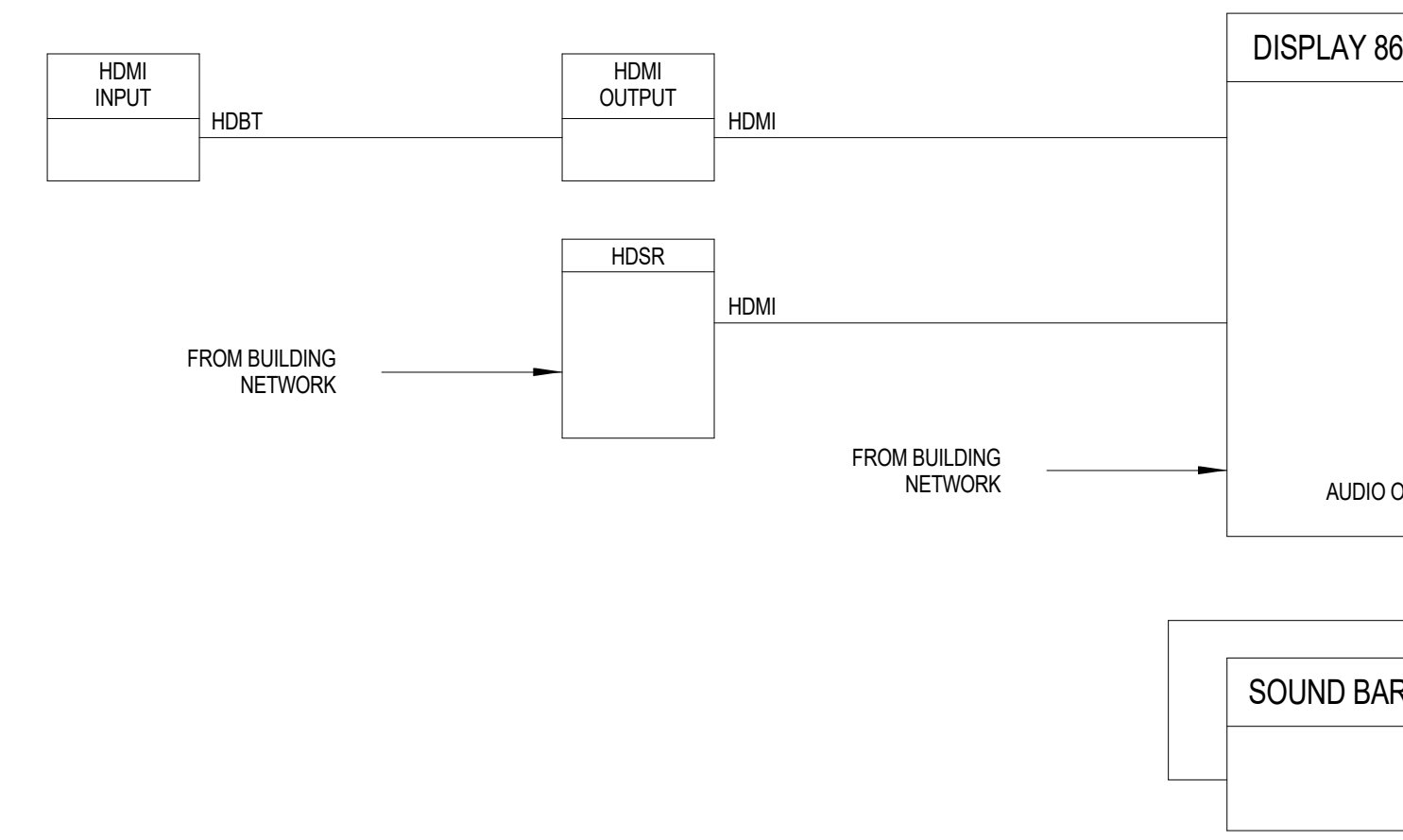
AR = AS REQUIRED; OFP = OBTAIN FROM PLANS; NR = NO REQUIREMENT; OFCI = OWNER FURNISHED CONTRACTOR INSTALLED; OFE = OWNER FURNISHED EQUIPMENT;

| AV SYSTEM - LOBBY DISPLAY SYSTEM - EQUIPMENT LIST |                              |          |          |                    |                     |                                      |
|---|------------------------------|----------|----------|--------------------|---------------------|--------------------------------------|
| SYMBOL  | DESCRIPTION                  | QTY/ROOM | SUPPLIER | MODEL              | ROUGH-IN            | CABLE                                |
| [DSS]   | DIGITAL SIGNAGE SERVER       | 1        | OFCI     | COORDINATE W OWNER |                     | CERTIFIED HDMI HIGHSPEED CABLE 6'    |
|   | DISPLAY, 75" SIGNAGE         | 1        | LG       | 75UR40S            |                     | 1/63 PATCH CABLE, RATED FOR POE+, 6' |
| [DISPLAY75]                                       | DISPLAY MOUNT, SIGNAGE KIOSK | 1        | CHIEF    | LW75UB             | MOUNT OVER BACK BOX |                                      |
|   | BACK BOX                     | 1        | CHIEF    | PAC528FBP4         |                     |                                      |
|   | FAN                          | 1        | CHIEF    | PACFAN1            |                     |                                      |
|   | MOUNTING PLATE               | 1        | CHIEF    | PACL2              |                     |                                      |

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**GENERAL SYSTEM NOTES:**

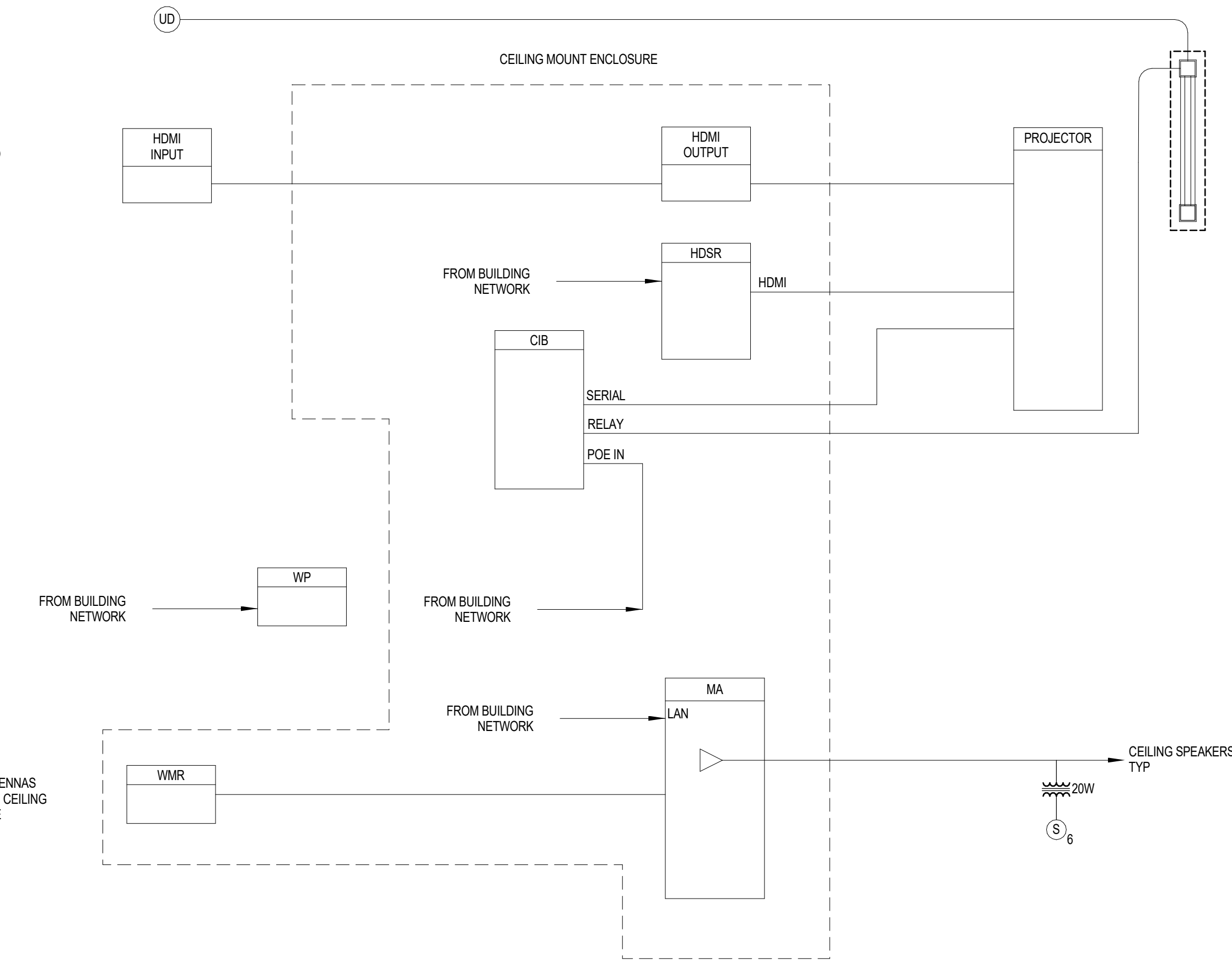
- SYSTEM IS CONTROLLED BY HANDHELD REMOTE PROVIDED WITH DISPLAY.



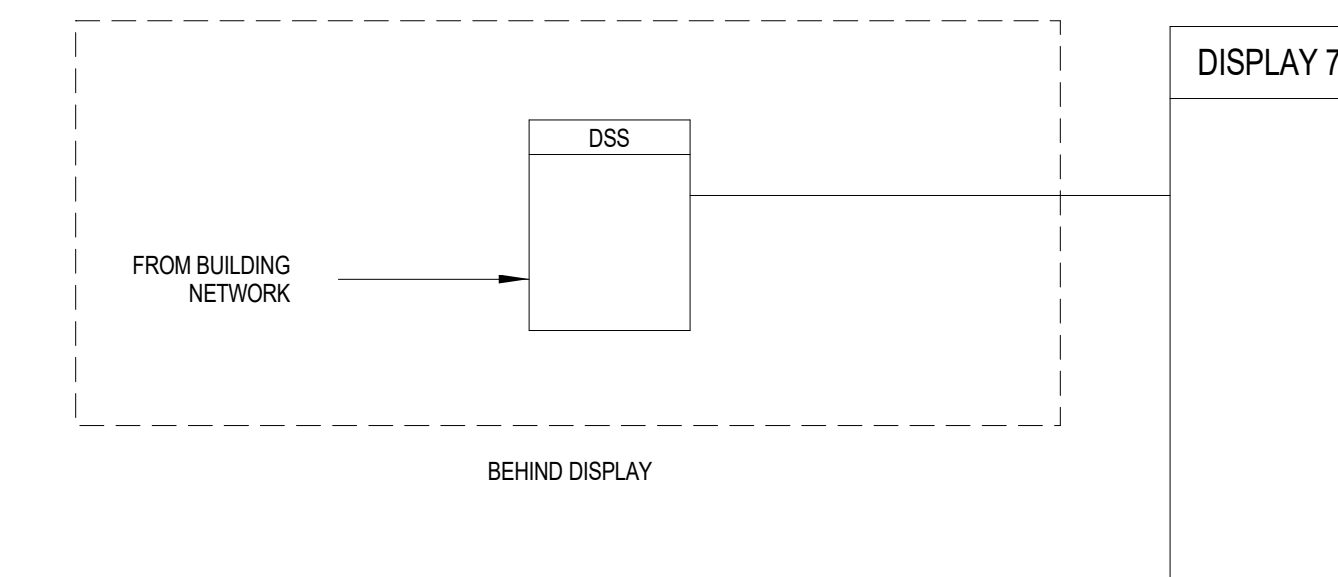
1 AV SYSTEM - SMALL CLASSROOM - RISER  
SCALE: NONE

**GENERAL SYSTEM NOTES:**

- PROGRAM THE CONTROL PANELS TO CONTROL AUDIO LEVELS, VIDEO SOURCE SELECTIONS, PROJECTOR POWER ON/OFF, SCREEN UP/DOWN.
- SYSTEM SHALL INCLUDE 3 MODES: OFF, 'ON-AUDIO ONLY', AND 'ON-AUDIO & VIDEO'. WHEN SYSTEM IS OFF, TOUCH PANEL SHALL SHOW TWO BUTTONS ONE FOR EACH 'ON' MODE, LABELED 'AUDIO ONLY' & 'AUDIO & VIDEO' WHICH SHALL TURN THE SYSTEM ON AND ENGAGE THEIR RESPECTIVE MODES.
- AUDIO ONLY MODE SHALL UNMUTE THE AMPLIFIER, SHOW A VOLUME SLIDER FOR EACH AUDIO INPUT, AND THE ROOMS. A 'AUDIO & VIDEO' BUTTON SHALL ALSO BE SHOWN, WHICH SHALL SWITCH THE SYSTEM TO VIDEO MODE.
- VIDEO MODE: SHALL DROP THE SCREEN, & TURN ON THE PROJECTOR. WHEN IN AUDIO AND VIDEO MODE, THE TOUCH PANEL SHALL ALSO SHOW VIDEO SOURCE BUTTONS, LABELED 'WIRED' & 'WIRELESS' WHICH SHALL SELECT THE APPROPRIATE VIDEO INPUT ON THE PROJECTOR. AN ADDITIONAL VOLUME SLIDER FOR THE PROJECTOR AUDIO SHALL ALSO BE SHOWN.
- SWITCHING G TO 'AUDIO ONLY' MODE FROM 'AUDIO & VIDEO' MODE SHALL INITIATE A PROMPT FOR THE USER TO CONFIRM THE CHOICE. IF CONFIRMED, THE SYSTEM SHALL INITIATE PROJECTOR COOL DOWN, AND RETRACT THE PROJECTOR SCREEN.
- WHEN THE SYSTEM IS TURNED OFF, THE SYSTEM SHALL PROMPT THE USER FOR CONFIRMATION. IF CONFIRMED, THE AMPLIFIER SHALL BE MUTED, ALL VOLUME LEVELS RESET TO THEIR DEFAULT LEVELS, THE PROJECTOR SHUT-DOWN INITIATED, AND THE SCREEN RETRACTED.



2 AV SYSTEM - LARGE CLASSROOM - RISER  
SCALE: NONE



3 AV SYSTEM - LOBBY DISPLAY SYSTEM - RISER  
SCALE: NONE

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
T: 801-298-1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISION ENGINEERING

240 E. MORRIS AVE, SUITE 200  
SALT LAKE CITY, UT 84115  
P: (801) 534-1130  
F: (801) 534-1080  
www.envisioneng.com

ENV-2023-220

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|         | 01  | 02/05/24 | PERMIT SET  |

|                  |                       |
|------------------|-----------------------|
| OWNER PROJECT #: | 24139210              |
| SPE PROJECT #:   | 22-38                 |
| DRAWN BY:        | MH                    |
| CHECKED BY:      | SH                    |
| DESIGNED BY:     | MH                    |
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SHEET TITLE:

**AV RISERS & EQUIP. - LOBBY & CLASSROOMS**

SHEET NUMBER:

**EA701**

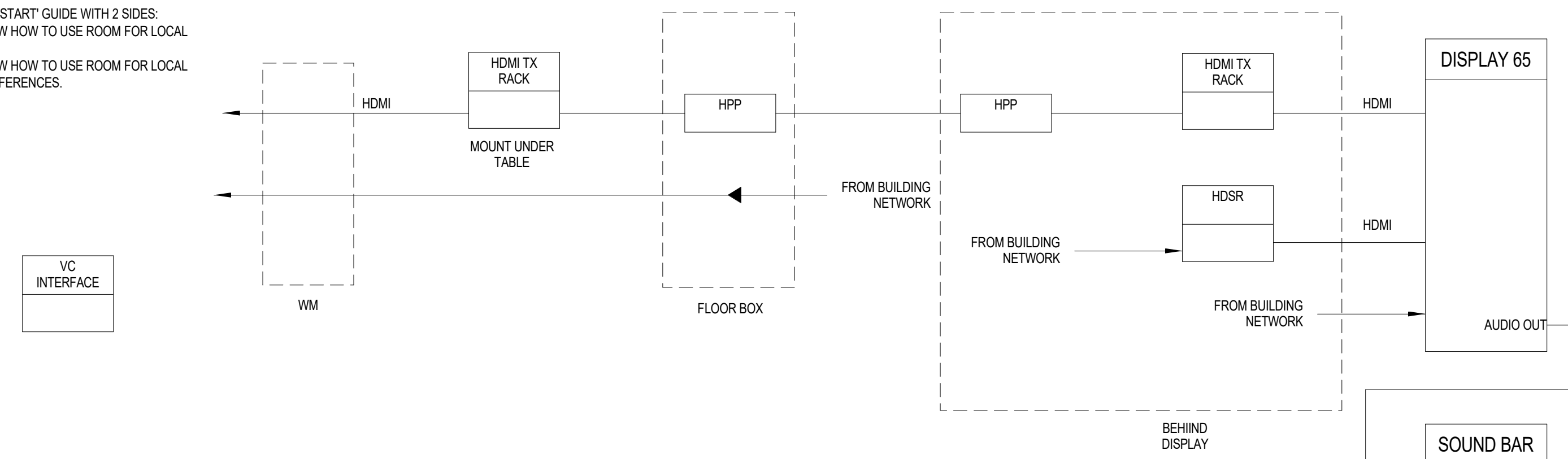


| AV SYSTEM - SMALL CONFERENCE ROOM - EQUIPMENT LIST |   |     |          |                            |                      |   |
|--|---|-----|----------|----------------------------|----------------------|---|
| SYMBOL   | DESCRIPTION   | QTY | SUPPLIER | MODEL                      | ROUGH-IN             | CABLE   |
| [DISPLAY65]  | DISPLAY, 65"  | 1   | LG       | 65UR840S                   | WALL BOX             | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                             |
| [VC INTERFACE]                                     | DISPLAY MOUNT, WALL KICK W/ DISPLAY INTERFACE               | 1   | CHEF     | PWRSKUB PWSBU              |                      |   |
| [HDMI TX]  | VIDEO CONFERENCING APPLIANCE, 380 DEG CAMERA, MIC & SPEAKER | 1   | CHEF     | OVL3                       | SET ON TABLE         |   |
| [HDMI TX]  | HDMI TRANSMITTER, RACK                                      | 1   | EXTRON   | DTP HDMI 4K 230 TX         | MOUNT UNDER TABLE    | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                             |
| [HPP]  | HDMI PATCH PLATE  | 2   | CUSTOM   | SEE DETAIL 2               | MOUNT IN FLOOR BOX   | CERTIFIED GIGABIT PATCH CABLE POE RATED WEST PENN 254246AF, BLACK |
| [HDMI RX]  | HDMI RECEIVER, RACK, HDBT                                   | 1   | EXTRON   | DTP HDMI 4K 230 RX         | MOUNT BEHIND DISPLAY | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                             |
| [HDSR]   | HDMI VIDEO STREAMING RECEIVER                               | 1   | KRAMER   | VIA CONNECT2               | MOUNT BEHIND DISPLAY | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                             |
| [WM]   | WIRE MANAGER, TABLE W/ POWER                                | 1   | EXTRON   | CABLE CUBBY 500 60-1882-02 |                      |   |
| [SOUND BAR]  | SOUND BAR   | 1   | JBL      | PSB-1 PRO                  |                      | 3.5MM AUX TO RCA  |
| [FB]   | FLOOR BOX   | NR  |          | BY DIV 26                  |                      | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                             |

AR = AS REQUIRED, OFP = OBTAIN FROM PLANS, NR = NO REQUIREMENT, OFCI = OWNER FURNISHED CONTRACTOR INSTALLED, OFE = OWNER FURNISHED EQUIPMENT.

**GENERAL SYSTEM NOTES:**

- SYSTEM IS CONTROLLED BY HANDHELD REMOTE PROVIDED WITH DISPLAY.
- PROVIDE 1 PAGE 'QUICKSTART' GUIDE WITH 2 SIDES.
  - SIDE 1 SHALL SHOW HOW TO USE ROOM FOR LOCAL CONFERENCES.
  - SIDE 2 SHALL SHOW HOW TO USE ROOM FOR LOCAL AND REMOTE CONFERENCES.



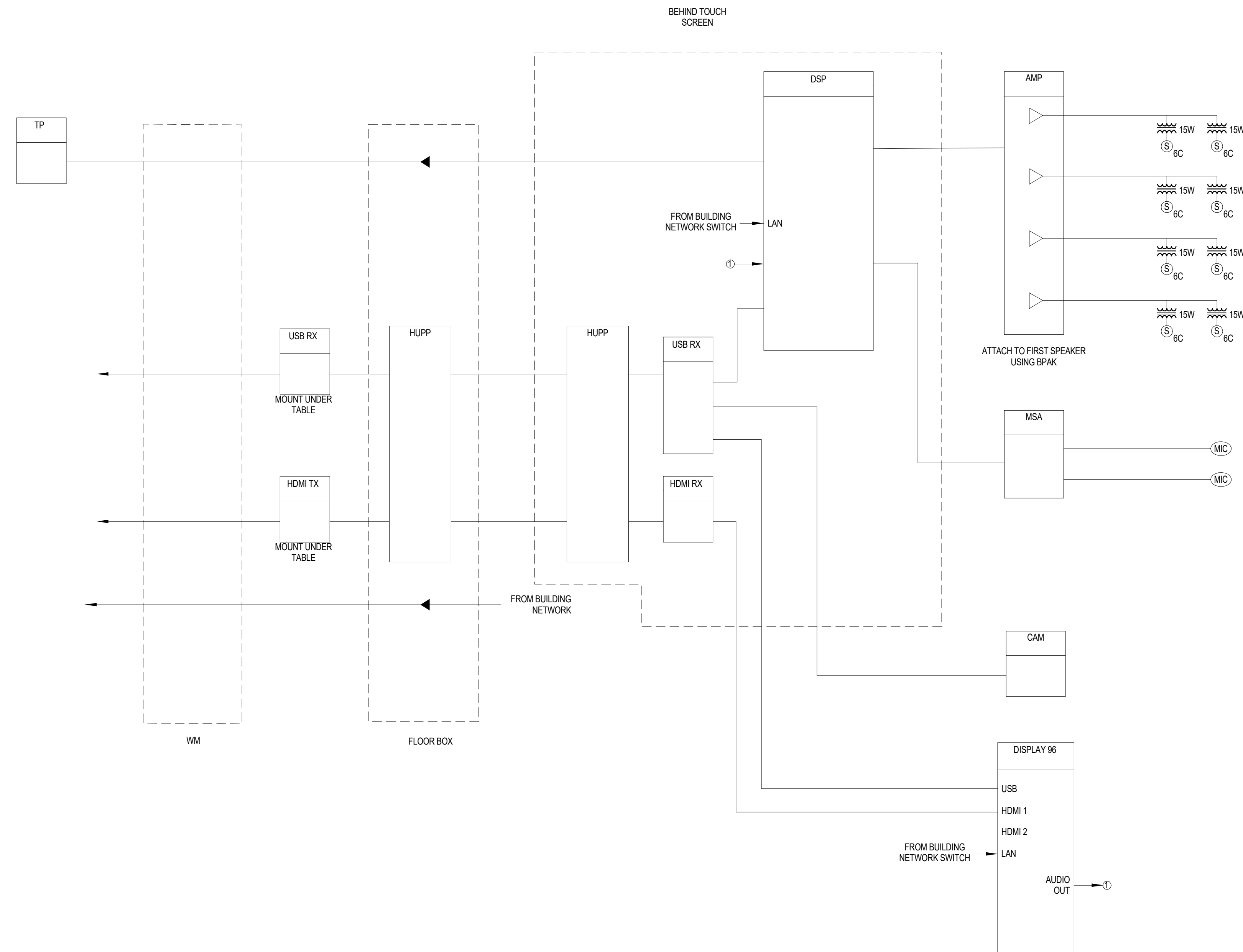
1 AV SYSTEM - SMALL CONF. ROOM - RISER  
SCALE: NONE

| AV SYSTEM - LARGE CONFERENCE ROOM - EQUIPMENT LIST |   |     |          |                            |                            |  |
|--|---|-----|----------|----------------------------|----------------------------|--|
| SYMBOL   | DESCRIPTION   | QTY | SUPPLIER | MODEL                      | ROUGH-IN                   | CABLE  |
| [DISPLAY86]  | DISPLAY, 86"  | 1   | LG       | 86UR840S                   |                            | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |
| [DISPLAY86]  | DISPLAY BACKBOX W/ TRIM KIT                             | 1   | CHEF     | PAC2ZLFW                   |                            |  |
| [DSP]  | VIDEO CONFERENCING AUDIO PROCESSOR (DSP), NETWORK BASED | 1   | CHEF     | PWRSKUB PWSBU              |                            |  |
| [SFC]  | SPEAKER, RECESSED, 6" WHITE                             | 8   | BIAMP    | TESIRA FORTEX 400          | INSTALL BEHIND DISPLAY     |  |
| [AMP]  | AMPLIFIER, IP   | 1   | BIAMP    | TESIRA AMP-4508P           | MOUNT TO SPEAKER WITH BPAK |  |
| [MIC]  | PUCK MICROPHONE, CEILING, WHITE AMPLIFIED               | 1   | BIAMP    | PARLE TCM-X                | MOUNT TO SPEAKER WITH BPAK | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |
| [MIC]  | PUCK MICROPHONE, CEILING, WHITE, EXPANSION              | 1   | BIAMP    | PARLE TCM-XEX              |                            | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |
| [MSA]  | MICROPHONE INTERFACE                                    | 1   | BIAMP    | INCLUDED WITH XEX MICS     |                            | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |
| [MSA]  | MICROPHONE & AMPLIFIER SPEAKER MOUNT                    | 2   | BIAMP    | BPAK                       |                            |  |
| [USB TX]   | USB TRANSMITTER, RECEIVER PAIR                          | 1   | ICRON    | USB 3-2-1 RAVEN 3104 PRO   |                            | WEST PENN 254246AF, BLACK PATCH CABLE                            |
| [HDMI TX]  | HDMI TRANSMITTER, RACK                                  | 1   | EXTRON   | DTP HDMI 4K 230 TX         | MOUNT UNDER TABLE          | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |
| [HUPP]   | HDMI & USB PATCH PLATE                                  | 2   | CUSTOM   | SEE DETAIL 5E1501          | MOUNT IN FLOOR BOX         | CERTIFIED 10GBS PATCH CABLE, POE RATED WEST PENN 254246AF, BLACK |
| [HDMI RX]  | HDMI RECEIVER, RACK, HDBT                               | 1   | EXTRON   | DTP HDMI 4K 230 RX         | MOUNT BEHIND DISPLAY       | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |
| [HDSR]   | HDMI VIDEO STREAMING RECEIVER                           | 1   | KRAMER   | VIA CONNECT2               | MOUNT BEHIND DISPLAY       | CERTIFIED 10GBS PATCH CABLE, POE RATED                           |
| [WM]   | WIRE MANAGER, TABLE W/ POWER                            | 1   | EXTRON   | CABLE CUBBY 500 60-1882-02 | MOUNT IN TABLE             | CERTIFIED 10GBS PATCH CABLE, POE RATED                           |
| [TP]   | TOUCHPANEL, TABLE TOP                                   | 1   | BIAMP    | APPRIMO TOUCH 8I           |                            |  |
| [CAM]  | CAMERA, DISPLAY MOUNTED W SIDE DISPLAY MOUNT            | 1   | BIAMP    | VIDI 250 VMA 200-DM        | MOUNT TO DISPLAY           |  |
| [FB]   | FLOOR BOX   | NR  |          | BY DIV 26                  |                            | CERTIFIED HDMI HIGH-SPEED PATCH CABLE                            |

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**GENERAL SYSTEM NOTES:**

- THIS DESIGN ASSUMES USERS WILL CONNECT THE USB TO THEIR COMPUTER, AND USE ITS SPEAKERS SO THERE IS NOT A NEED TO ROUTE AUDIO FROM THE DISPLAY TO THE OVERHEAD SPEAKERS, SINCE THAT AUDIO IS CARRIED OVER THE USB CONNECTION.
- CONFIGURE SYSTEM TO ALLOW USERS TO:
  - ANNOTATE CONTENT FROM CONNECTED HDMI AND USB CONNECTION VIA TOUCH SCREEN.
  - SHARE ANNOTATED CONTENT TO CONFERENCE CONNECTION.
  - HOLD STANDARD BYOD VIDEO CONFERENCING.
- SYSTEM DOES NOT INTERFERE WITH BUILDING PAGING, OR NURSE CALL SYSTEMS. SEE RCP FOR SPEAKER CONNECTED TO THOSE SYSTEMS.



2 AV SYSTEM - LARGE CONF ROOM - RISER  
SCALE: NONE

ARCHITECTS INFORMATION

**SPE ARCHITECTS**  
P.O. Box 517  
Kaysville, Utah 84037  
t. 801.298.1368  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP

SCOTT A. HARDY  
7531217-220  
STATE OF UTAH  
2024-01-05

CODE OFFICIAL STAMP

REVIEWED FOR  
CODE COMPLIANCE  
03/26/2024  
SCOTT A. HARDY  
ARCHITECT

PROJECT NAME

**BRIDGERLAND TECHNICAL COLLEGE  
TRANSCHILL BUILDING REMODEL**

940 WEST 1400 NORTH  
LOGAN, UTAH 84321

ENVISION ENGINEERING

240 E. MORRIS AVE, SUITE 200  
SALT LAKE CITY, UT 84115  
P. (801) 534-1130  
F. (801) 534-1080  
www.envisioneng.com

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SPE PROJECT #: 22-38  
DRAWN BY: MH  
CHECKED BY: SH  
DESIGNED BY: MH  
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SHEET TITLE

**AV RISERS &  
EQUIP.  
CONFERENCE  
ROOMS**

SHEET NUMBER

**EA702**