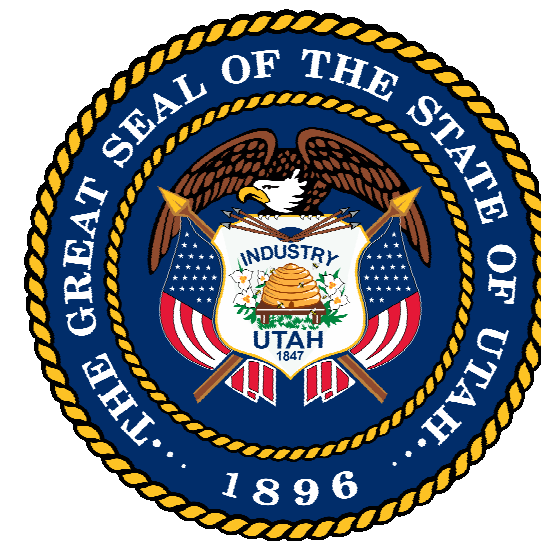


2019 DAVIS TECHNICAL COLLEGE FREEPORT CENTER BUILDING D5 COMPOSITES REMODEL

FREEPORT CENTER
CLEARFIELD, UTAH

12/19/2019
CONSTRUCTION BID SET



STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building / Salt Lake City, Utah 84114 / 801.538.3018 / www.dfcu.utah.gov
DFCM PROJECT NO. 20073220

MECHANICAL ENGINEER



WHW ENGINEERING INC

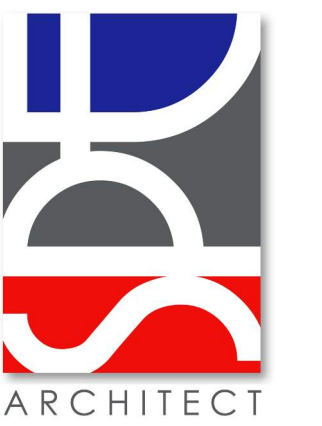
8619 SOUTH SANDY PARKWAY #101 / SANDY, UTAH 84070
801466.4021 / www.whw-engineering.com

ELECTRICAL ENGINEER

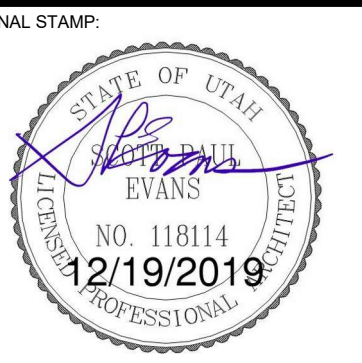


SPECTRUM ENGINEERS

324 SOUTH STATE STREET #400 / SALT LAKE CITY, UTAH
84111 801.328.5151 / www.spdesign.com



**SCOTT P. EVANS ARCHITECT
& ASSOCIATES P.C.**
108 West Center Street
Bountiful, Utah 84010
t: 801.298.1368 - f: 801.298.2192
info@spe-architect.com
www.spe-architect.com



PROJECT NAME:

2019 DAVIS TECHNICAL COLLEGE
FREEPORT CENTER BUILDING D5
COMPOSITES REMODEL

FREEPORT CENTER
CLEARFIELD, UTAH

REVISIONS:

NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

ISSUED:

NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

OWNER PROJECT #: 20073220
SPE PROJECT #: 19-45
DRAWN BY: JBE
CHECKED BY: SPE
DESIGNED BY: SPE
COPYRIGHT:
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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

GI-001

ABBREVIATIONS

<p>@ at ABV above ACOUS acoustical ACT acoustical ceiling tile AD area drain ADJ adjustable AFF above finished floor ALT alternate ALUM aluminum APPROX approximate ARCH architect</p> <p>B.O. bottom of BALC balcony BD board BET between BLDG building BLKG blocking BLW below BM beam BOT bottom BRKT bracket BULKHD bulkhead BUR built up roof</p> <p>C.G. corner guard CAB cabinet CALK caulking CEM cement CER ceramic CJ control joint CLG ceiling CLOS closet CLR clear CO casad opening COL column CONC concrete CONT continuous CPT carpet CT ceramic tile CTR center</p> <p>DBL double DET detail DIA diameter DIM dimension DN down DR door DS down spout DW dishwasher DWG drawing Ø diameter (E) existing</p>	<p>E east EA each EFS exterior insulation & finish system ELEC electrical ELEV elevation EMER emergency ENCL enclosure EOS edge of slab EO equal EQJIP equipment ETR existing to remain EW each way EWC electric water cooler EXP. JT. expansion joint EXTG. existing</p> <p>F.O. face of FA fire alarm FAP fire annunciator panel FD floor drain FE fire extinguisher FEC fire extinguisher cabinet FG finish group FH fire hydrant FHC fire hose cabinet FIN finish FLR floor FLUOR fluorescent FT foot or feet FUR furring FV field verify</p> <p>GAL gallon GALV galvanized GB grab bar GC general contractor GL glass GND ground GWB gypsum board GYP gypsum</p> <p>H.W.H. hot water heater HC handicapped HDWD hardwood HDWR hardware HM hollow metal HORIZ horizontal HR hour HT height ID inner diameter INCAN incandescent INSUL insulation</p>	<p>INT interior JAN janitor JST joint JT joint</p> <p>LAM laminate LAV lavatory LB(S) pounds LDG landing LT light</p> <p>MAX maximum MECH mechanical MEMB membrane MFR manufacturer MIN minimum MISC miscellaneous MO masonry opening MTD mounted MTL metal</p> <p>(N) new N north NIC not in contract NO number NOM nominal NTS not to scale</p> <p>O.P. overflow pipe OA overall OC on center OD outside diameter OFF office OH opposite hand OPG opening OPP opposite</p> <p>PART partition PERM perimeter PG paint grade PLAM plastic laminate PLAS plaster PLYWD plywood PR pair PT paint PTD painted</p> <p>R riser RAD radius RCP reflected ceiling plan RD roof drain RE refer</p>	<p>REF refrigerator REIN'F reinforced REQD required RESIL resilient RM room</p> <p>RO rough opening RTU room top unit (mechanical) S south SAFB sound attenuation fiber batt SC scupper SCHED schedule SEAL sealant SECT section SF square foot SHT sheet SIM similar SEAL sealant SECT section SF square foot SHT sheet SIM similar SPEC specification SQ square SS stainless steel STD standard STL steel STOR storage STRUCT structural SUSP suspended SYM symmetrical</p> <p>T tread T&G tongue & groove TEL telephone TER terrazzo THK thick THR threshold TO top of TOM top of masonry TYP typical</p> <p>UC undercut UNFIN unfinished UNO unless noted otherwise UON unless otherwise noted UTL utility</p> <p>VCT vinyl composition tile VERT vertical VIF verify in field VTR vent termination pipe WVC vinyl wall covering</p> <p>W west W/ with W/O without WC water closet WIN window WP waterproof WS wet stack WSCT weirstock WT weight</p>
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GENERAL NOTES

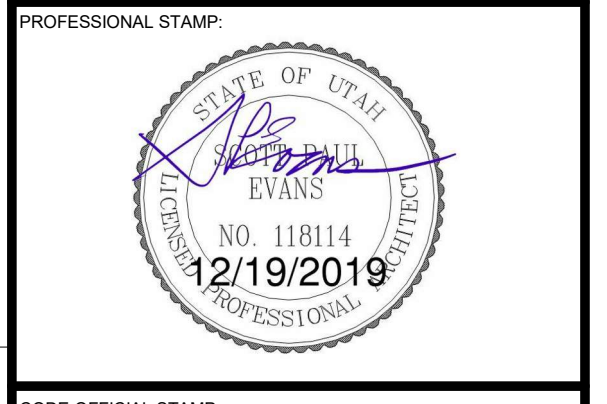
1. THE CONTRACTOR IS TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXTENT OF WORK AND COORDINATE ALL TRADES.
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED - ANY VARIATIONS IN DIMENSIONS ARE TO BE REVIEWED WITH THE ARCHITECT.
3. WHERE EXISTING WALLS ARE REMOVED PATCH REMAINING WALLS AS REQUIRED FOR FLUSH FINISHED APPEARANCE.
4. 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 CONTRACTOR'S RESPONSIBILITY TO VISIT THE JOB SITE PRIOR TO BIDDING AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SUCH WORK THAT WILL BE REQUIRED.
5. CORRIDORS SHALL NOT BE USED FOR STORAGE OF MATERIALS OR STAGING OF THE WORK.
6. PATCH AND REPAIR WALLS AT OUTLETS AND AT OTHER OPENINGS REQUIRED BY THIS REMODELING.
7. GRID LINES ARE ORIGINAL BUILDING GRID LINES.
8. PROTECT EXTG. FINISHES FROM DAMAGE.
9. 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 TO/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 +/-.
10. 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.
11. 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.
12. THE CONTRACTOR IS TO PROVIDE DUST WALL AS REQUIRED TO PERFORM NEW WORK - COORDINATE LOCATION OF DUST WALLS WITH OWNER.
13. CONTRACTOR'S STAGING AREA IS TO BE PROVIDED WITH A SECURE, LOCKED, 6'-0" (PER IBC 3306) 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.

DRAWING INDEX

SHT. #	DRAWING TITLE
GENERAL:	
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
GI-003	DCFM FORMS
GI-004	ADA GENERAL REQUIREMENTS
ARCHITECTURAL:	
AD-101	DEMOLITION PLAN
AE-101	FLOOR PLAN
AE-102	REFLECTED CEILING PLAN
AE-501	DETAILS
AE-601	SCHEDULES
MECHANICAL:	
MG001	MECHANICAL GENERAL NOTES & LEGEND
ME101	MECHANICAL FLOORPLAN
ME501	MECHANICAL SCHEDULES
PG001	PLUMBING GENERAL NOTES & LEGEND
PE101	PLUMBING FLOORPLAN
PE601	PLUMBING SCHEDULES
ELECTRICAL:	
EE001	SHEET INDEX AND GENERAL NOTES
EE002	SYMBOLS LEGEND
EE401	3D PLAN ENLARGED
EE402	3D PLAN OVERALL
EE501	ELECTRICAL DETAILS
EE502	ELECTRICAL DETAILS
EE601	LIGHTING COMCHECK
EE701	TYPICAL MOUNTING HEIGHT DETAILS
ED101	LEVEL 1 ELECTRICAL DEMOLITION PLAN
EP101	LEVEL 1 POWER PLAN
EP102	LEVEL 1 ENLARGED POWER PLAN
EP601	ONE-LINE DIAGRAM
EP602	EQUIPMENT & PANEL SCHEDULE
EL101	LEVEL 1 LIGHTING PLAN
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EL603	LIGHTING CONTROL DETAILS
ETS01	TELECOM DETAILS



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
1.801.298.1368 - f.801.298.2192
info@spe-architect.com
www.spe-architect.com



**2019 DAVIS TECHNICAL COLLEGE
FREERPORT CENTER BUILDING D5
COMPOSITES REMODEL**

FREERPORT CENTER
CLEARFIELD, UTAH

MATERIALS

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

GRAPHIC SYMBOLS

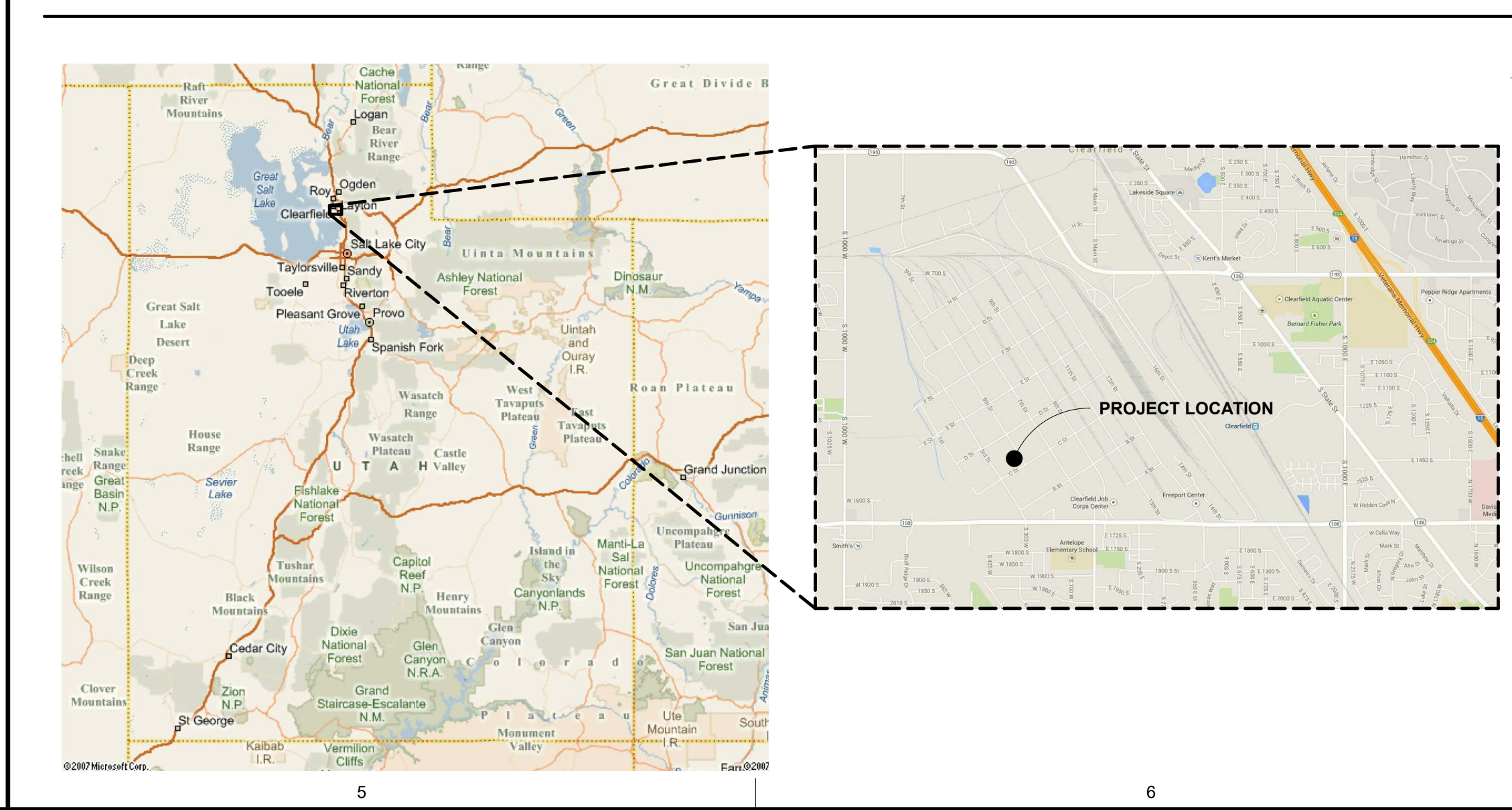
	ROOM NAME
	ROOM NUMBER
	(WHERE OCCURS)
	DETAIL CALLOUT
	BUILDING SECTION
	WALL SECTION
	DETAIL SECTION
	DRAWING REVISION
	REVISION NUMBER
	NORTH ARROW
	GRID REFERENCE
	CENTER LINE
	CEILING HEIGHT
	LEVEL ELEVATION
	SPOT ELEVATION
	DOOR NUMBER
	WALL TYPE
	WINDOW TYPE
	KEYED NOTE
	KEYED NOTE
	GLASS TYPE

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 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 106.3.4.2). Deferred submittals for this project are:

ITEM #1	MODIFICATION TO EXISTING FIRE SUPPRESSION SYSTEM. EXPECTED 3 WEEKS AFTER BID HAS BEEN AWARDED.
ITEM #2	MODIFICATION TO EXISTING FIRE ALARM SYSTEM. EXPECTED 3 WEEKS AFTER BID HAS BEEN AWARDED.

PROJECT LOCATION

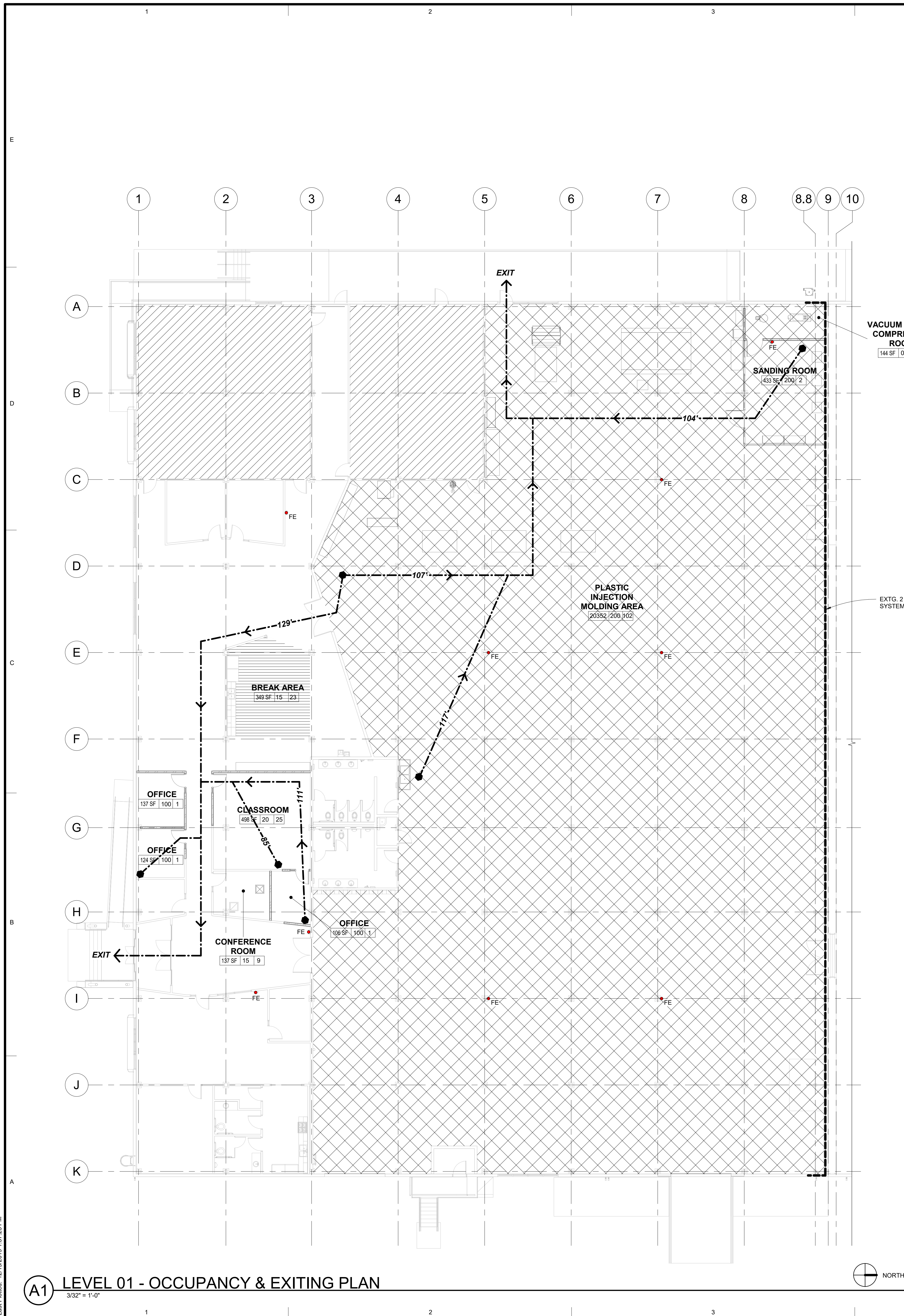


REVISIONS		
NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

ISSUED:	
NO. DATE DESCRIPTION	
01 12/19/19 CONSTRUCTION BID SET	

OWNER PROJECT #:	20073200
SPE PROJECT #:	19-45
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	SPE
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SHEET TITLE:
GENERAL INFORMATION
SHEET NUMBER:
GI-002



A1 LEVEL 01 - OCCUPANCY & EXITING PLAN
3/32" = 1'-0"

OCCUPANCY & EXITING LEGEND

ROOM NAME
 [Hatched Box] # OF OCCUPANTS
 [Hatched Box] SQUARE FOOTAGE PER OCCUPANT
 [Hatched Box] SQUARE FOOTAGE OF ROOM

---T.D. = TRAVEL DISTANCE---

FE FIRE EXTINGUISHER - SEE AE-101

OCCUPANCY "B"
 OCCUPANCY "F-1"
 OCCUPANCY "A-2"
 OCCUPANCY "A-3"

CODE ANALYSIS

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2018	National Electrical Code	2017
International Mechanical Code	2018	Uniform Code for Building Conservation	N.A.
International Plumbing Code	2018	ADA Accessibility Guidelines	2010 ADAAG 2009 ANSI 117.1
International Fire Code	2018		
International Energy Conservation Code	2018		

A. Occupancy and Group: **B** **A-3** **A-2** **F-1**
 Change in Use: Yes No Mixed Occupancy: Yes No
 Special Use and Occupancy (e.g. High Rise, Covered Mall):

B. Seismic Design Category: **D** Design Wind Speed: **90** mph

C. Type of Construction (circle one):
 I II III IV V VI VII VIII IX X XI XII XIII XIV XV XVI XVII XVIII XIX XX XXI XXII XXIII XXIV XXV XXVI XXVII XXVIII XXIX XXX

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: **2** hr. South: **0** East: **0** West: **0**

E. Mixed Occupancies: **YES** Nonseparated Uses: **YES**

F. Sprinklers:
 Required: **YES** Provided: **YES** Type of Sprinkler System: **NFPA 13**

G. Number of Stories: **01** Building Height: **31'-0" +/-**

H. Actual Area per Floor (square feet): **32,710 s.f.**

I. Tabular Area: **N.A.**

J. Area Modifications: **N.A.**

K. Fire Resistance Rating Requirements for Building Elements (hours):

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	N.A.	
Partitions - Permanent	0		Fire Walls	N.A.	
Fire Barriers	0		Fire Partitions	N.A.	
			Smoke Partitions	N.A.	

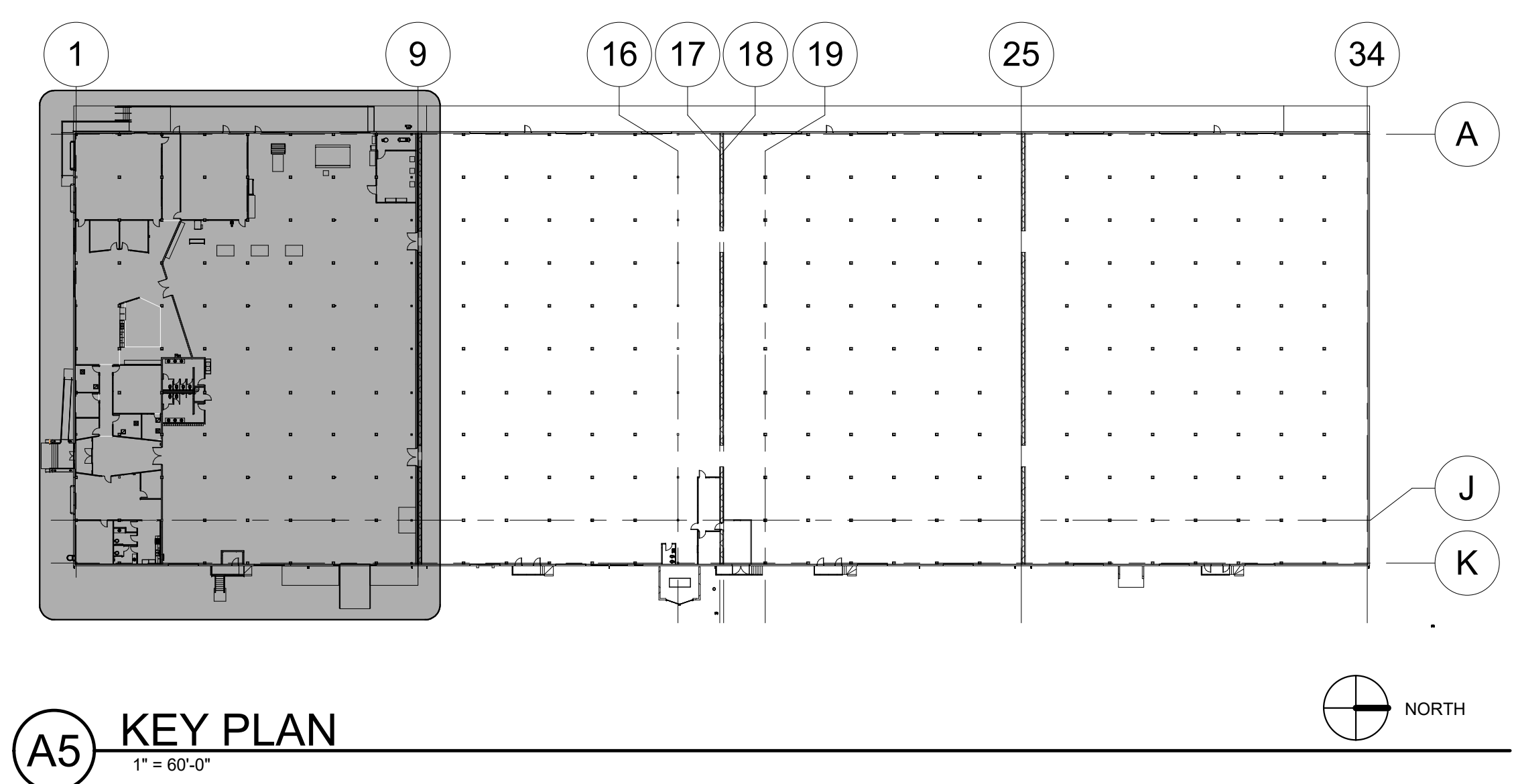
L. Design Occupant Load: **N.A.**
 Exit Width Required: **N.A.** Exit Width Provided: **N.A.**

M. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) **3** (f) **5** Provided (m) **3** (f) **5**
 b) Urinals - Required (m) **2** (f) **3** Provided (m) **3** (f) **4**
 c) Lavatories - Required (m) **4** (f) **4** Provided (m) **4** (f) **4**
 d) Bath Tubs or Showers: **0**
 e) Drinking Fountains: **2** Service Sinks: **1**

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 a) High Rise Requirements.
 b) Atriums.
 c) Performance Based Criteria.
 d) Means or Egress Analysis.
 e) Fire Assembly Locator Sheet.
 f) Exterior and Interior Accessibility Route.
 g) Fire Stopping, Including Tested Design Number.



A5 KEY PLAN
1" = 60'-0"

ARCHITECT'S INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 t: 801.298.1368 - f: 801.298.2192
 info@spe-architect.com
 www.spe-architect.com

PROFESSIONAL STAMP:

CODE OFFICIAL STAMP:

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
 FREERPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

REVISIONS:
 NO. DATE DESCRIPTION

ISSUED:
 NO. DATE DESCRIPTION
 01 12/19/19 CONSTRUCTION BID SET

OWNER PROJECT #: 20073220
 SPE PROJECT #: 19-45
 DRAWN BY: JBE
 CHECKED BY: SPE
 DESIGNED BY: SPE
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CODE COMPLIANCE INFORMATION

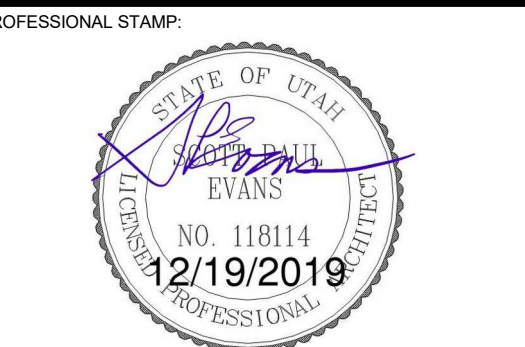
SHEET NUMBER:
GI-003

FREERPORT CENTER
 CLEARFIELD, UTAH

Last Pooled: 12/19/2019 1:57:23 PM



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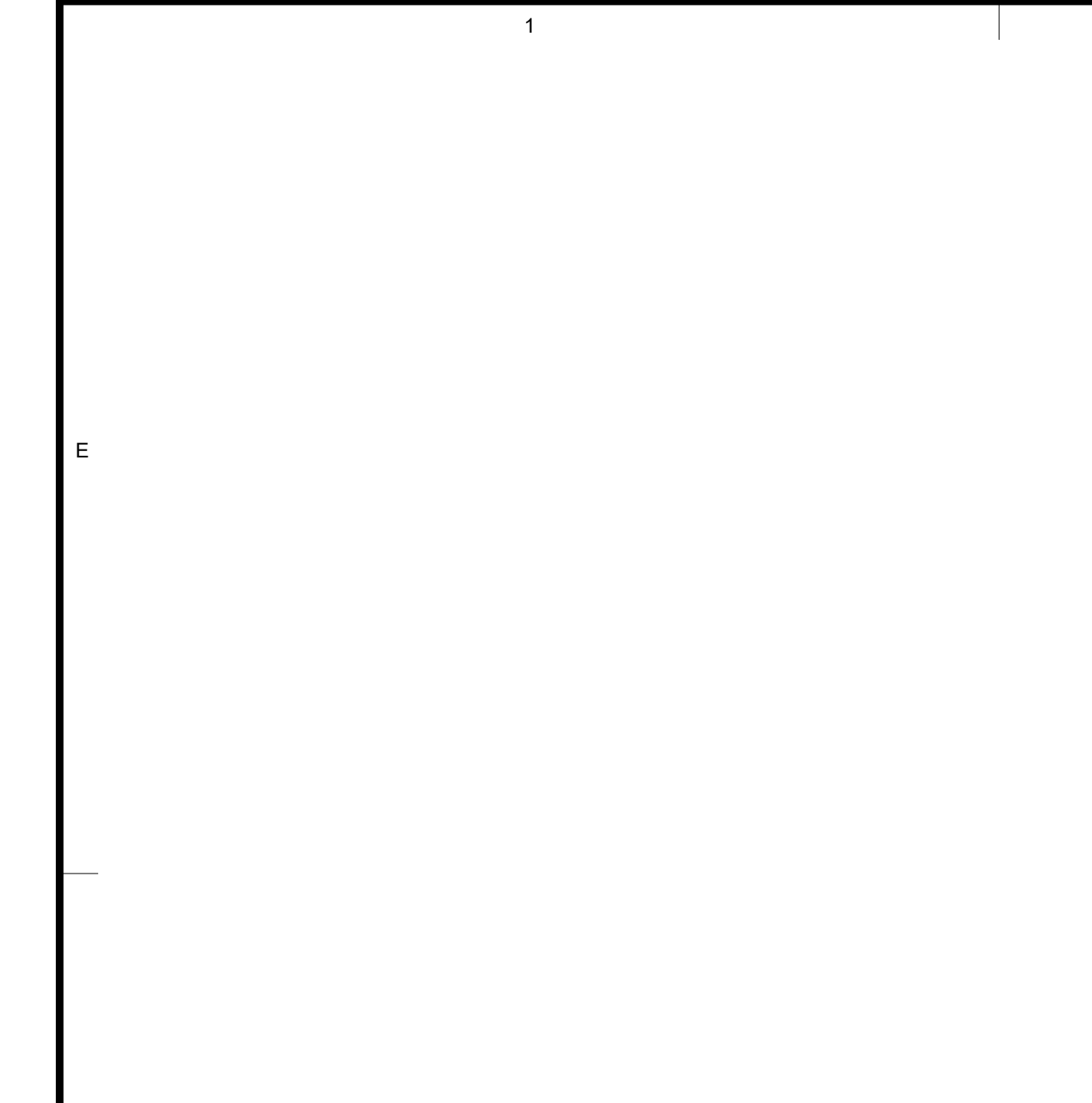
PROJECT NAME: 2019 DAVIS TECHNICAL COLLEGE FREERPORT CENTER BUILDING D5 COMPOSITES REMODEL

REVISIONS: NO. DATE DESCRIPTION

ISSUED: NO. DATE DESCRIPTION

OWNER PROJECT #: 20073220 SPE PROJECT #: 19-45 DRAWN BY: JBE CHECKED BY: SPE DESIGNED BY: SPE COPYRIGHT: © 2019 SCOTT P. EVANS - ARCHITECT

SHEET NUMBER: GI-004



410 State Office Building Salt Lake City, Utah 84114 Phone: (801) 578-3018 Website: http://offcm.utah.gov/

Special Inspection, Material Testing & Structural Observation

Items Required by Chapter 17 of the 2015 IBC. Indicate items requiring special inspection, structural testing, or structural observation by checking the appropriate box. All items not requiring inspection/testing should be reviewed from the form. For items requiring continuous inspection, a special inspector must be present while the performance of the task. In most cases "periodic" inspections shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task.

FABRICATORS (IBC 1705.2.2 & 1705.10)

Table with 2 columns: Fabricator Name, Fabricator plan location. Includes checkboxes for Required Inspect, Inspectors, and Wood Construction.

STRUCTURAL STEEL (IBC 1705.2.1, 1705.12.1 & 1705.13.1)

Table with 2 columns: Item, Continues, Periodic. Includes sections for Welding, Fabrication, and Erection.

Page 1 of 13



Table with 2 columns: Item, Continues, Periodic. Includes sections for Steel Deck Installation, End Connections, and Cold-Formed Steel Construction.

CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.11)

Table with 2 columns: Item, Continues, Periodic. Includes sections for Formwork, Reinforcing Steel, and Walling of Retaining Wall.

Page 2 of 13



Table with 2 columns: Item, Continues, Periodic. Includes sections for Architectural Components, Wood Construction, and Soils Construction.

MECHANICAL & ELECTRICAL COMPONENTS (IBC 1705.12.4, 1705.12.6 & 1705.13.2)

Table with 2 columns: Item, Continues, Periodic. Includes sections for Mechanical and Electrical components.

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Table with 2 columns: Item, Continues, Periodic. Includes sections for Masonry Construction, AS Prepared Work, and Fire-Resistant Materials.

MASONRY CONSTRUCTION (IBC 1705.4)

Table with 2 columns: Item, Continues, Periodic. Includes sections for Masonry construction and AS Prepared Work.

Page 4 of 13



Table with 2 columns: Item, Continues, Periodic. Includes sections for Masonry Construction, AS Prepared Work, and Fire-Resistant Materials.

MECHANICAL & ELECTRICAL COMPONENTS (IBC 1705.12.4, 1705.12.6 & 1705.13.2)

Table with 2 columns: Item, Continues, Periodic. Includes sections for Mechanical and Electrical components.

Page 5 of 13



Table with 2 columns: Item, Continues, Periodic. Includes sections for Masonry Construction, AS Prepared Work, and Fire-Resistant Materials.

MECHANICAL & ELECTRICAL COMPONENTS (IBC 1705.12.4, 1705.12.6 & 1705.13.2)

Table with 2 columns: Item, Continues, Periodic. Includes sections for Mechanical and Electrical components.

Page 6 of 13

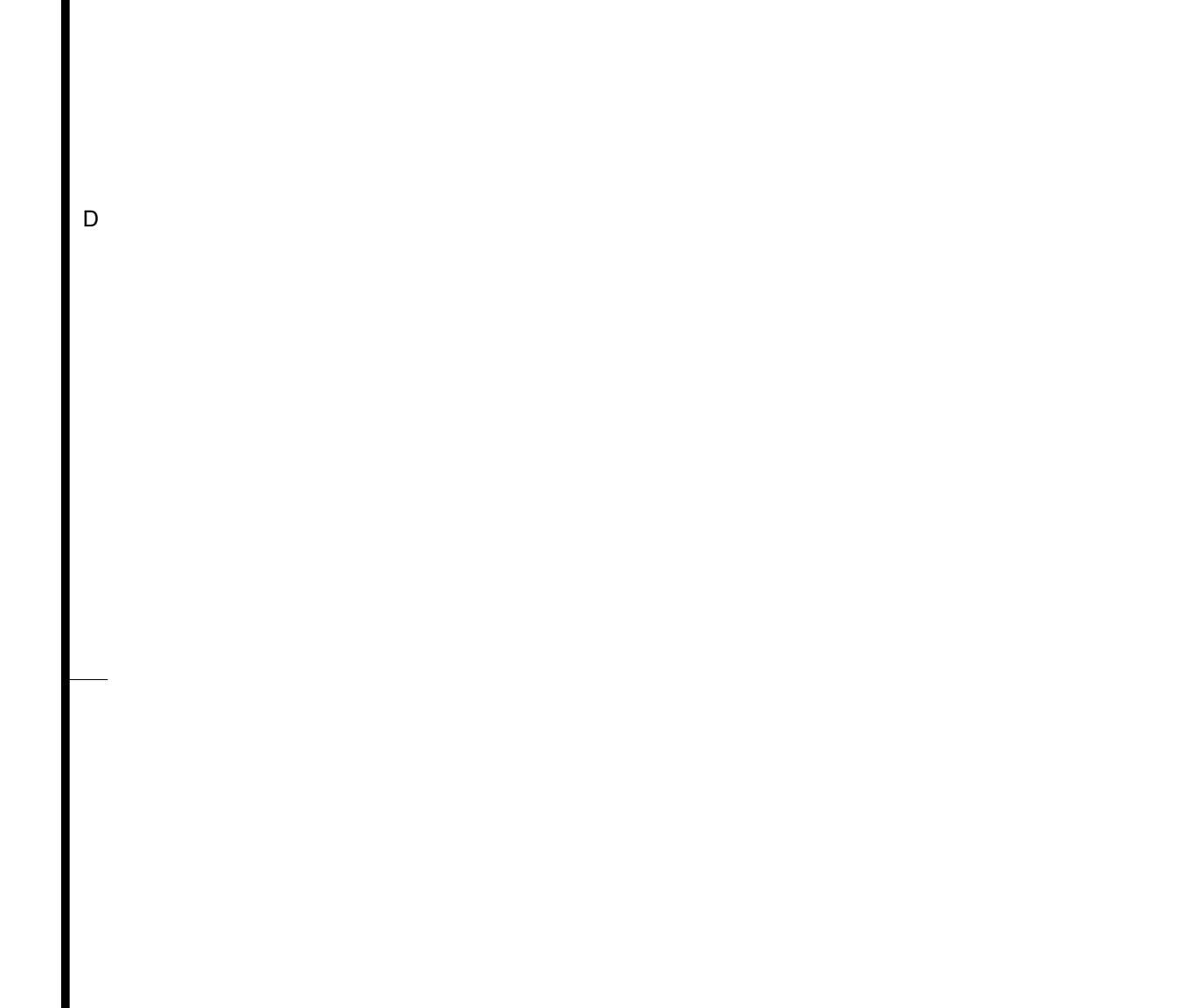


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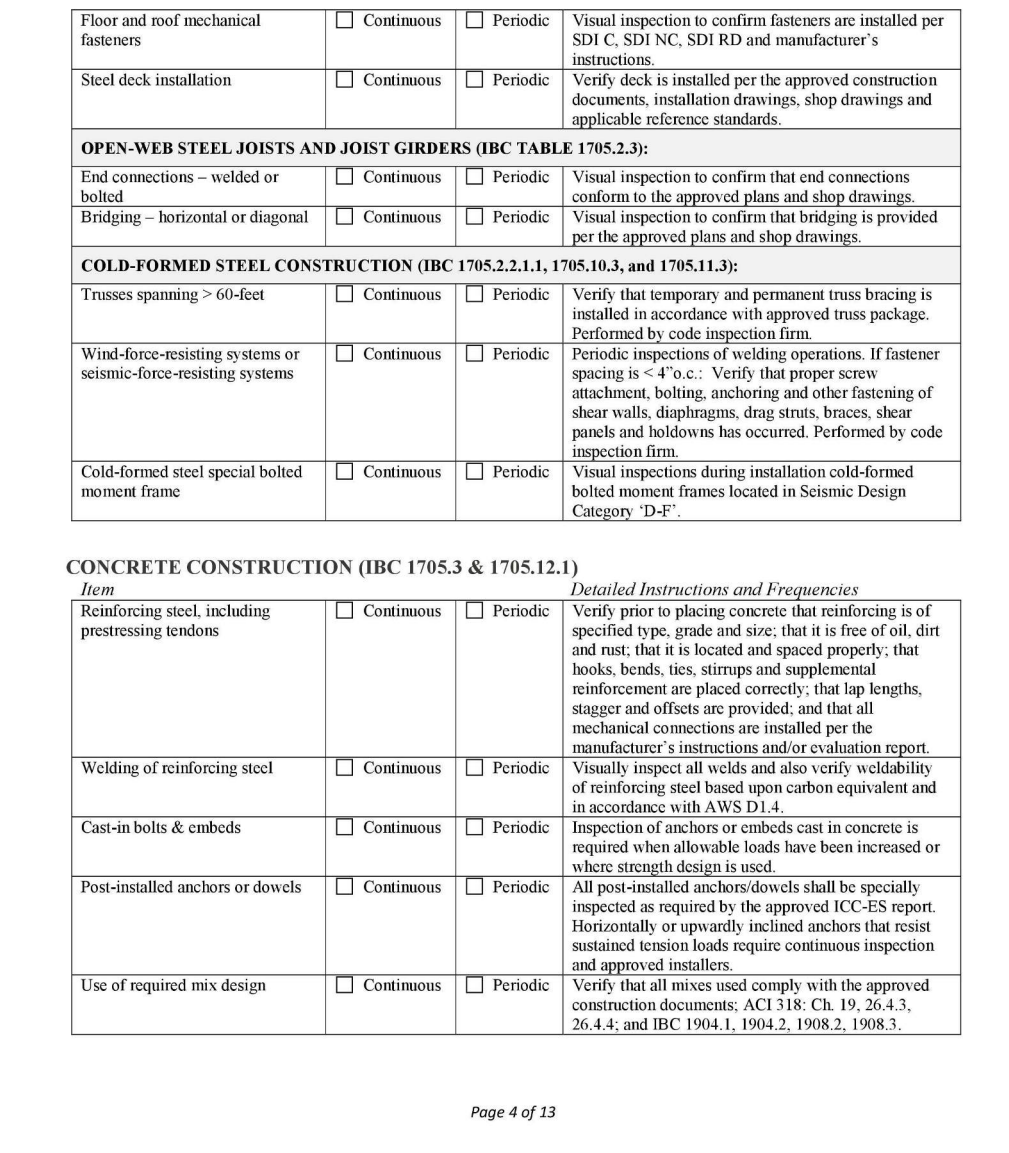


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Page 8 of 13

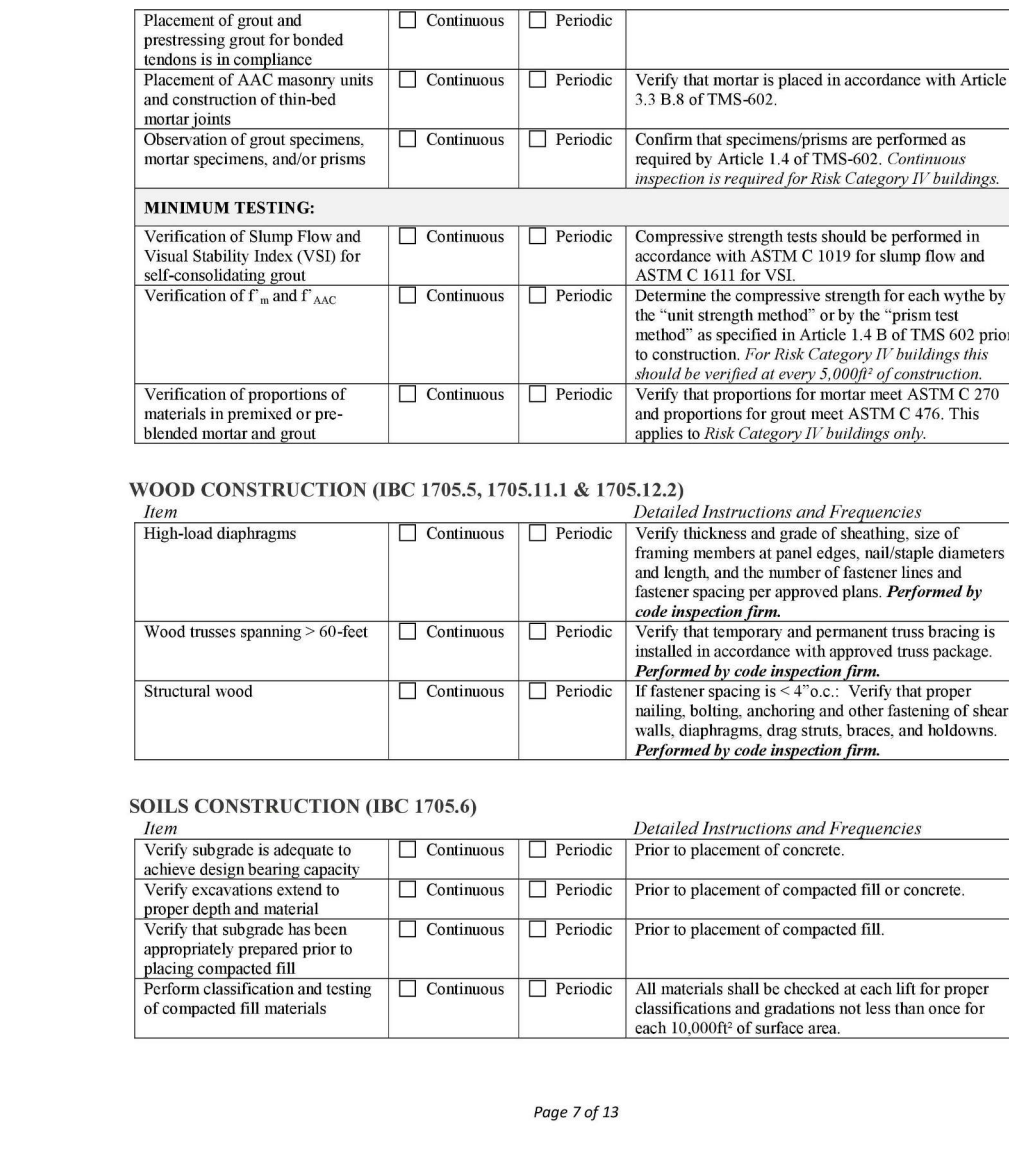


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Page 9 of 13

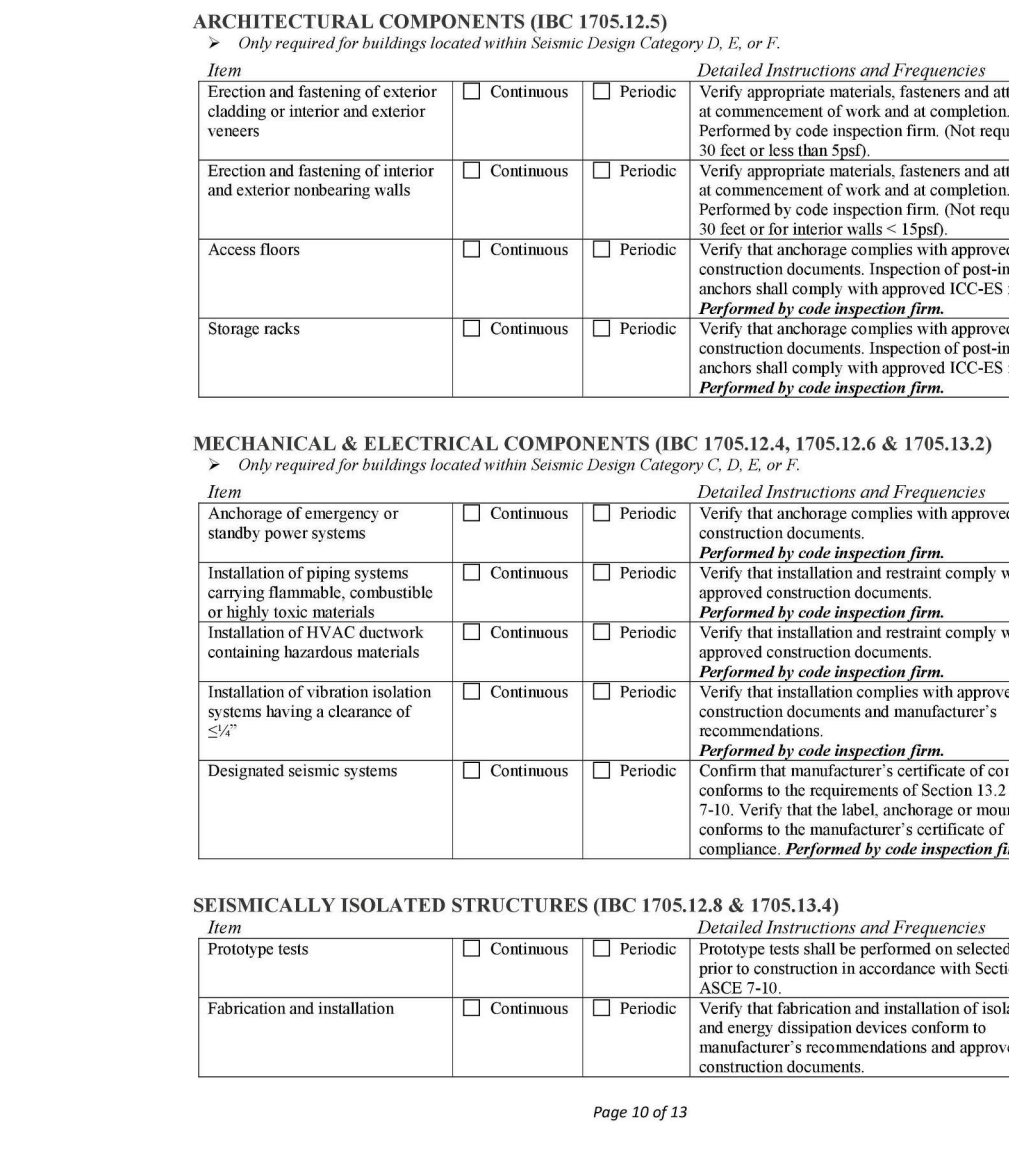


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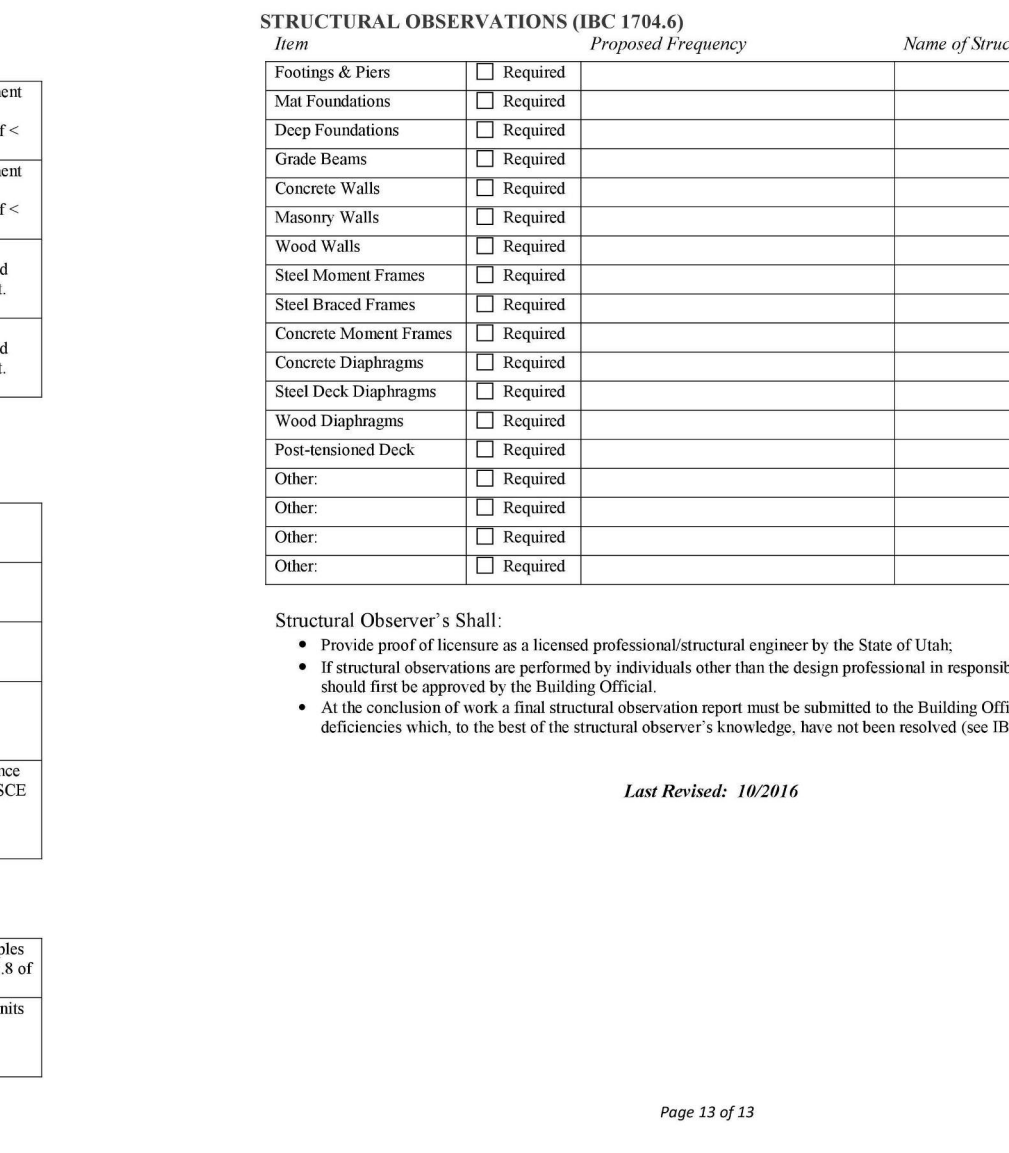


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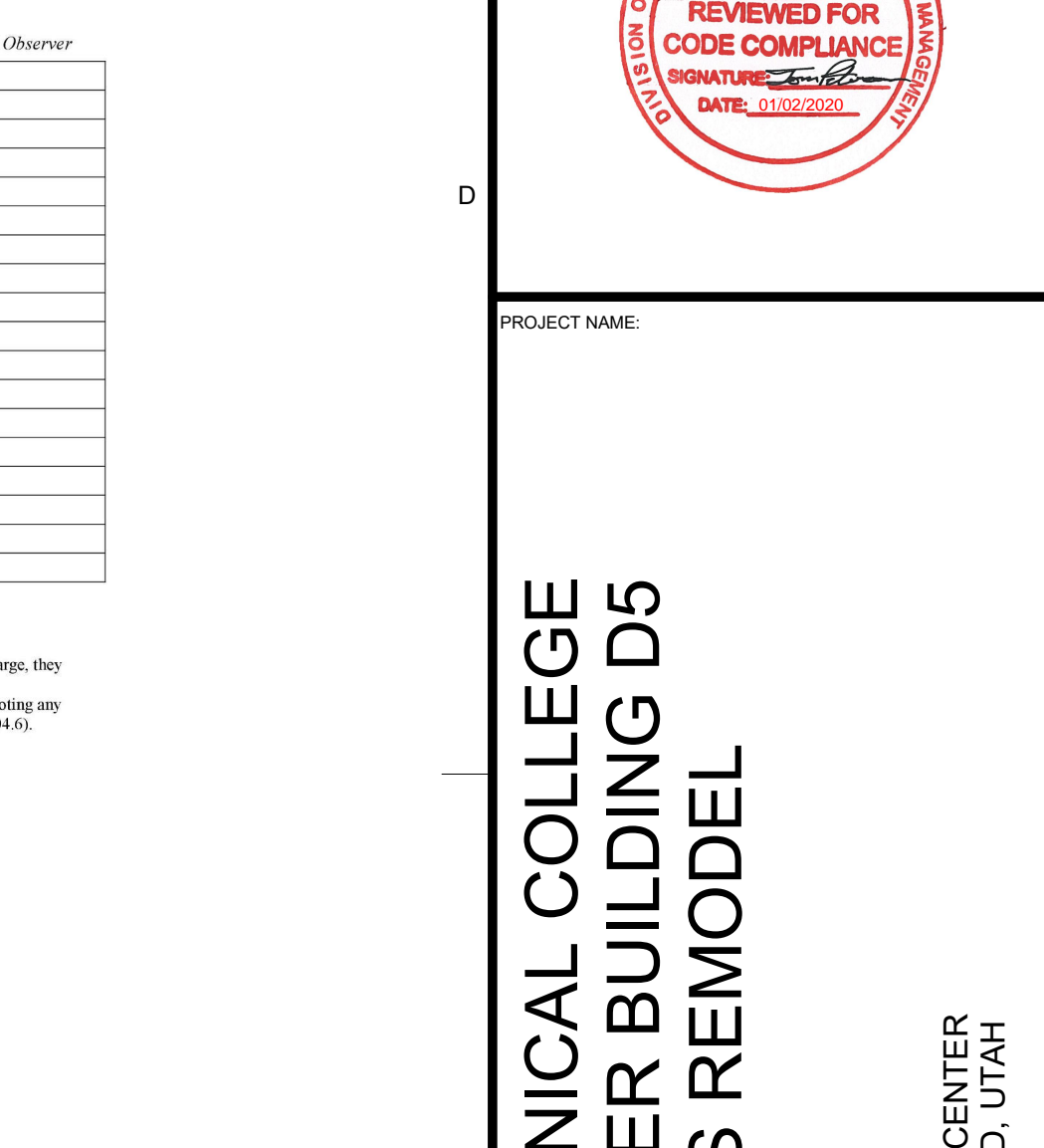


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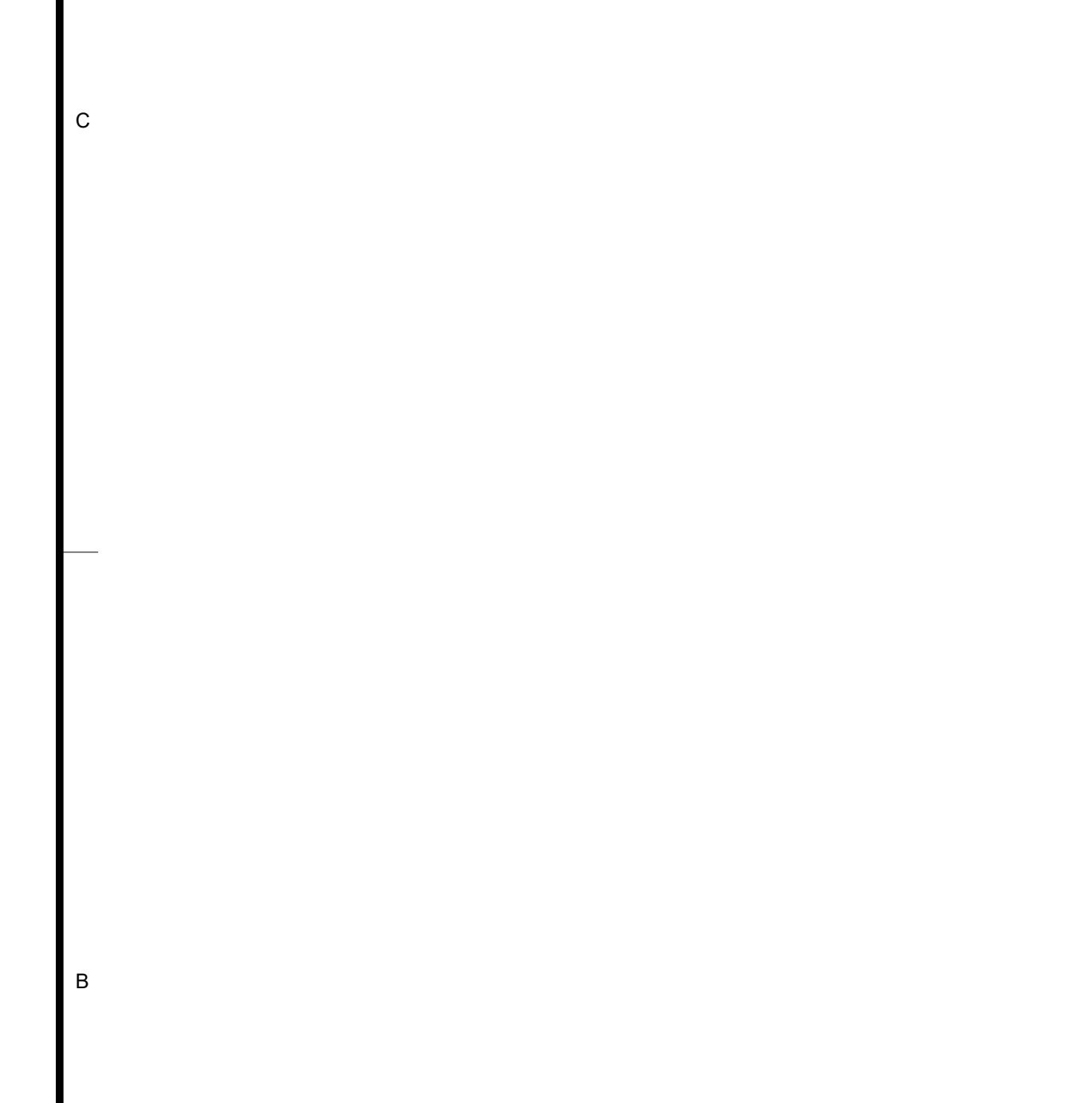


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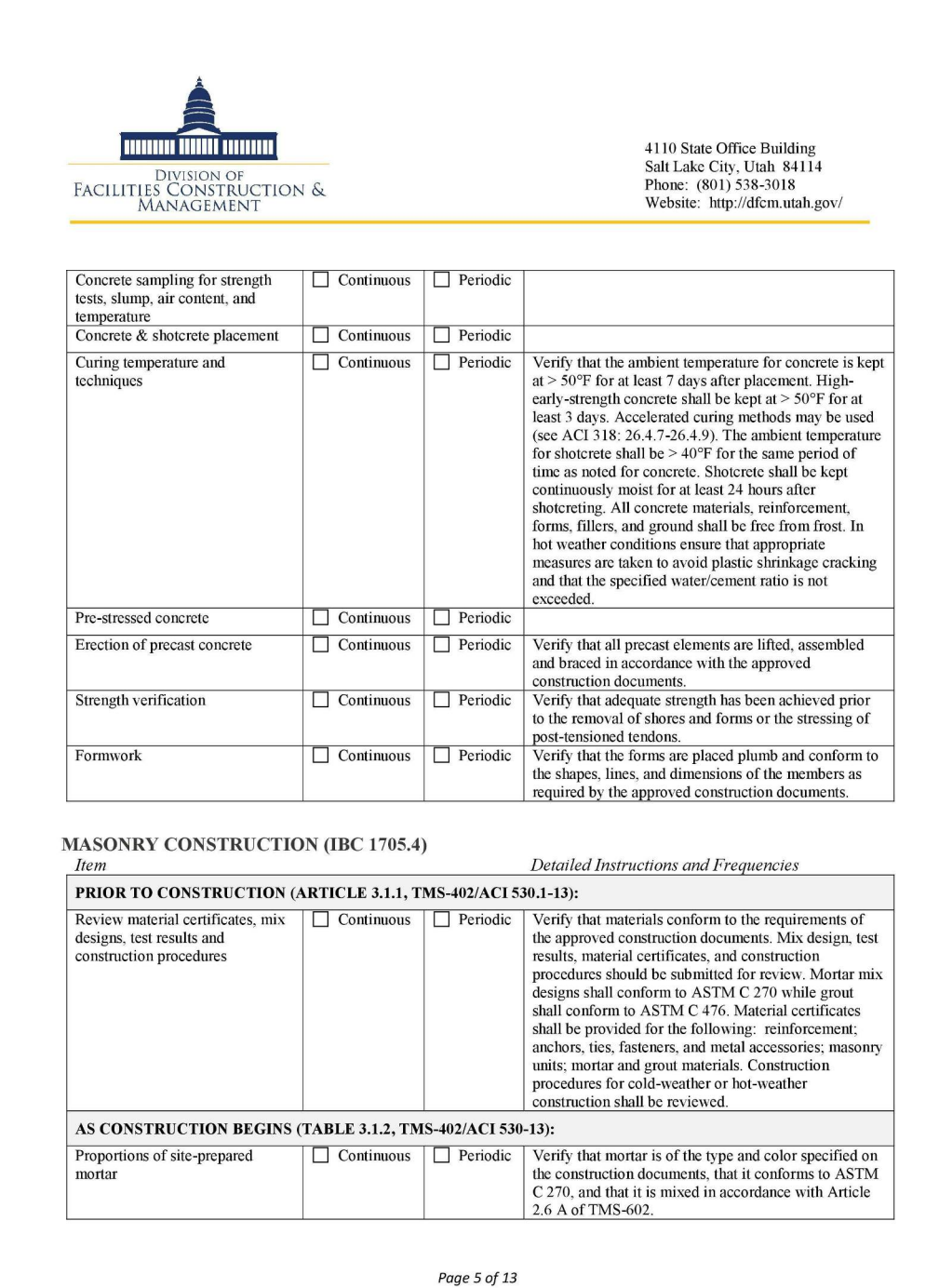


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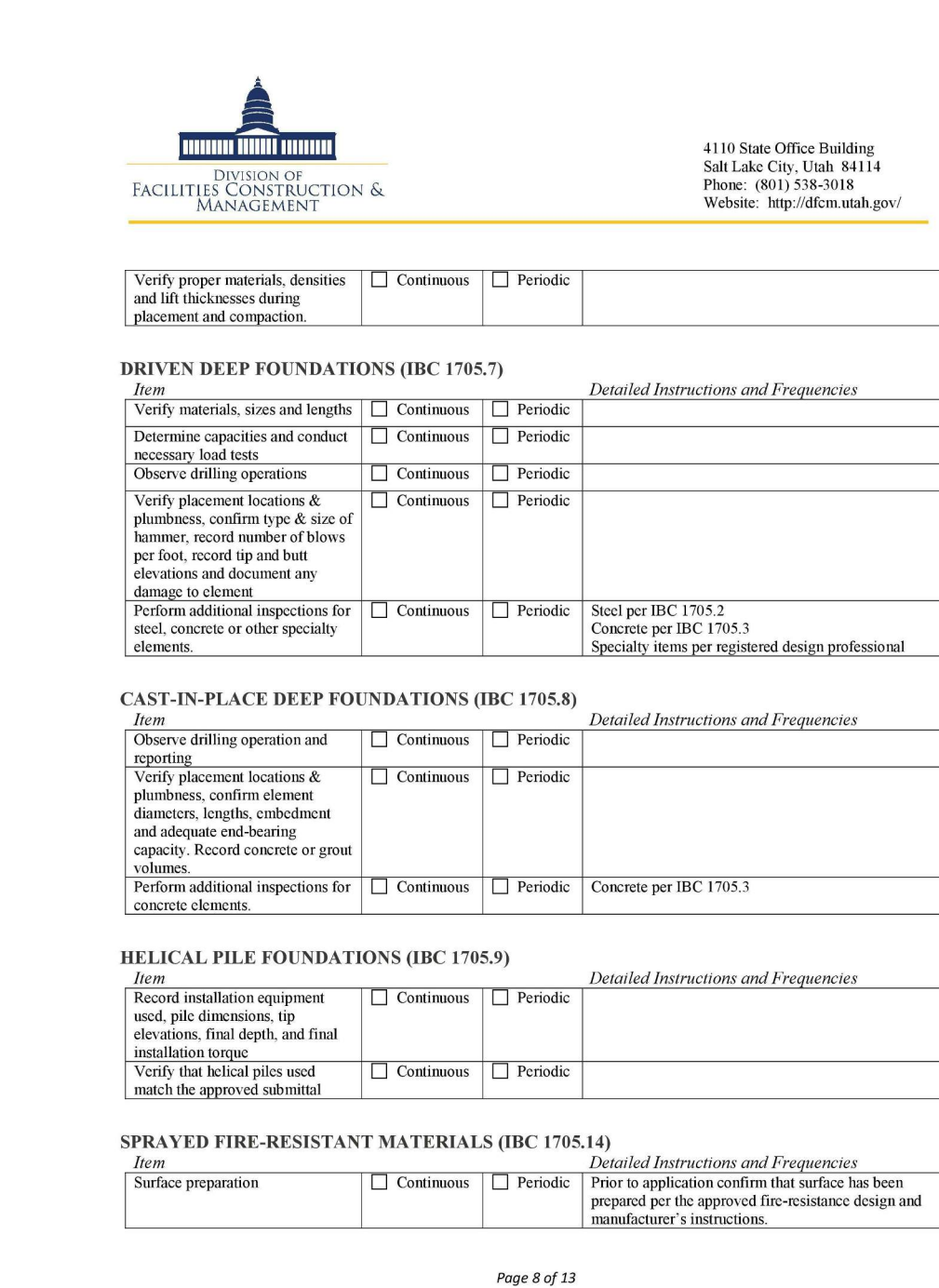


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Page 15 of 13

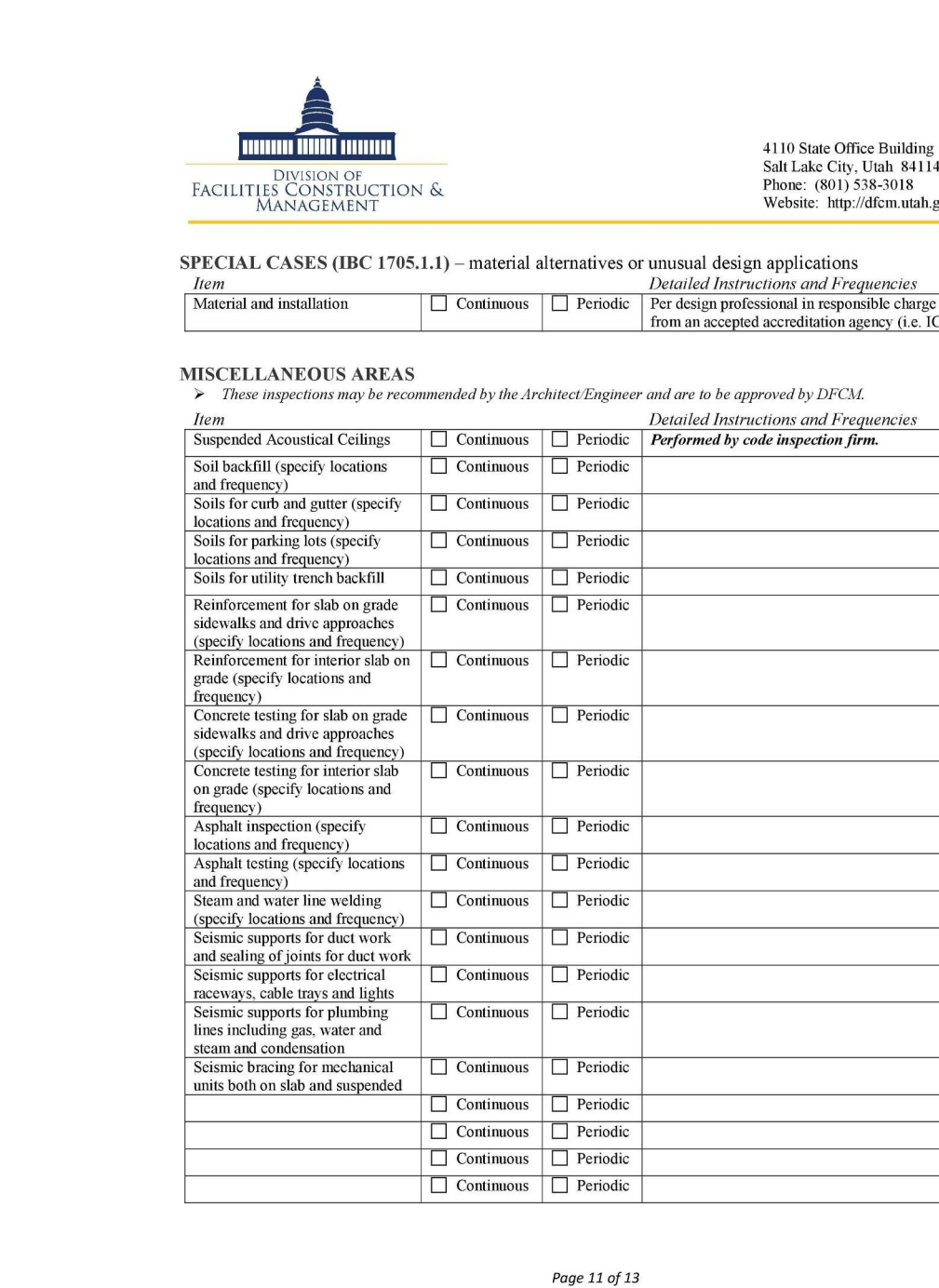


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Page 16 of 13

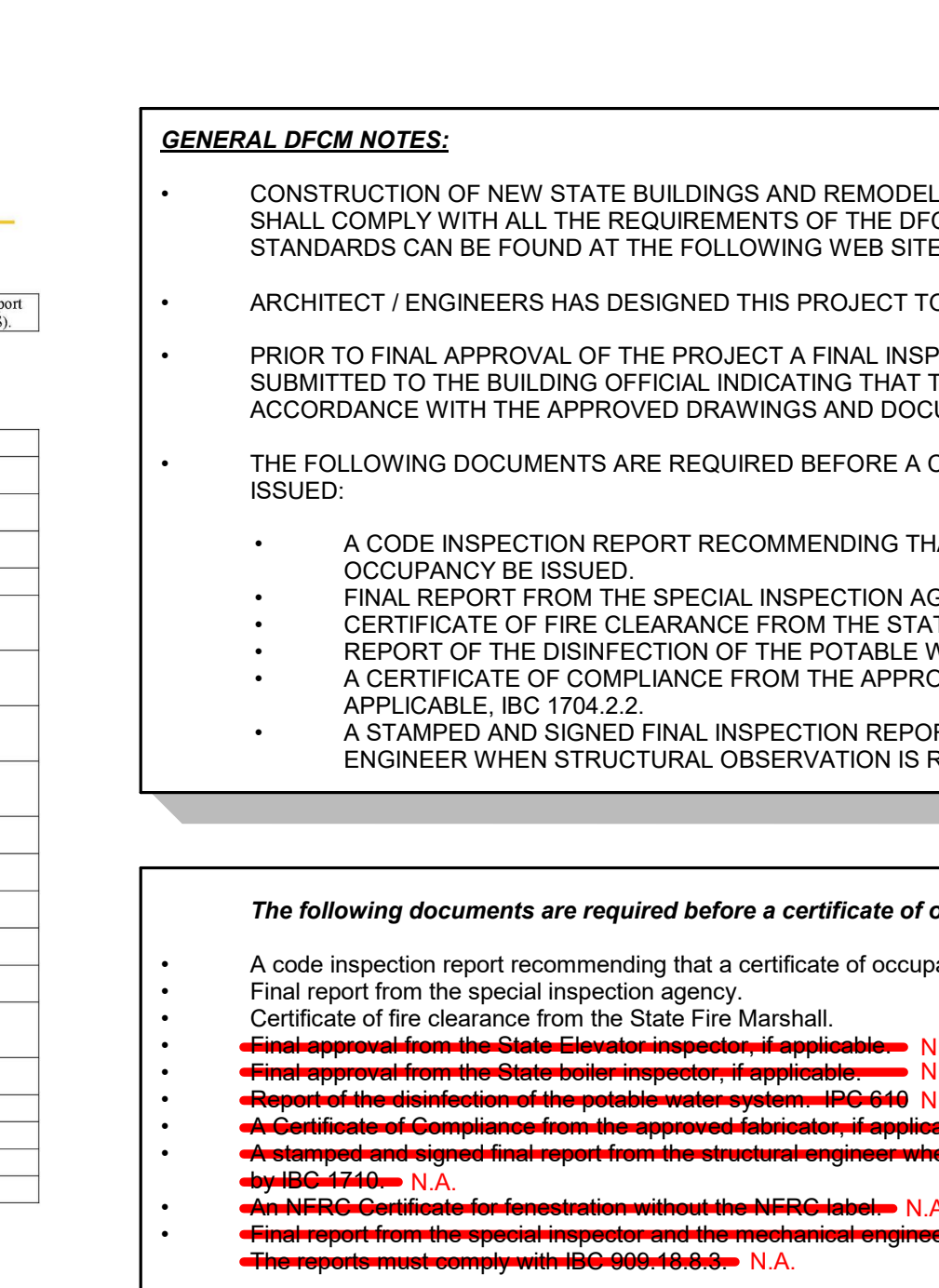


Table with 2 columns: Item, Continues, Periodic. Includes sections for Masonry Construction, AS Prepared Work, and Fire-Resistant Materials.

Page 17 of 13

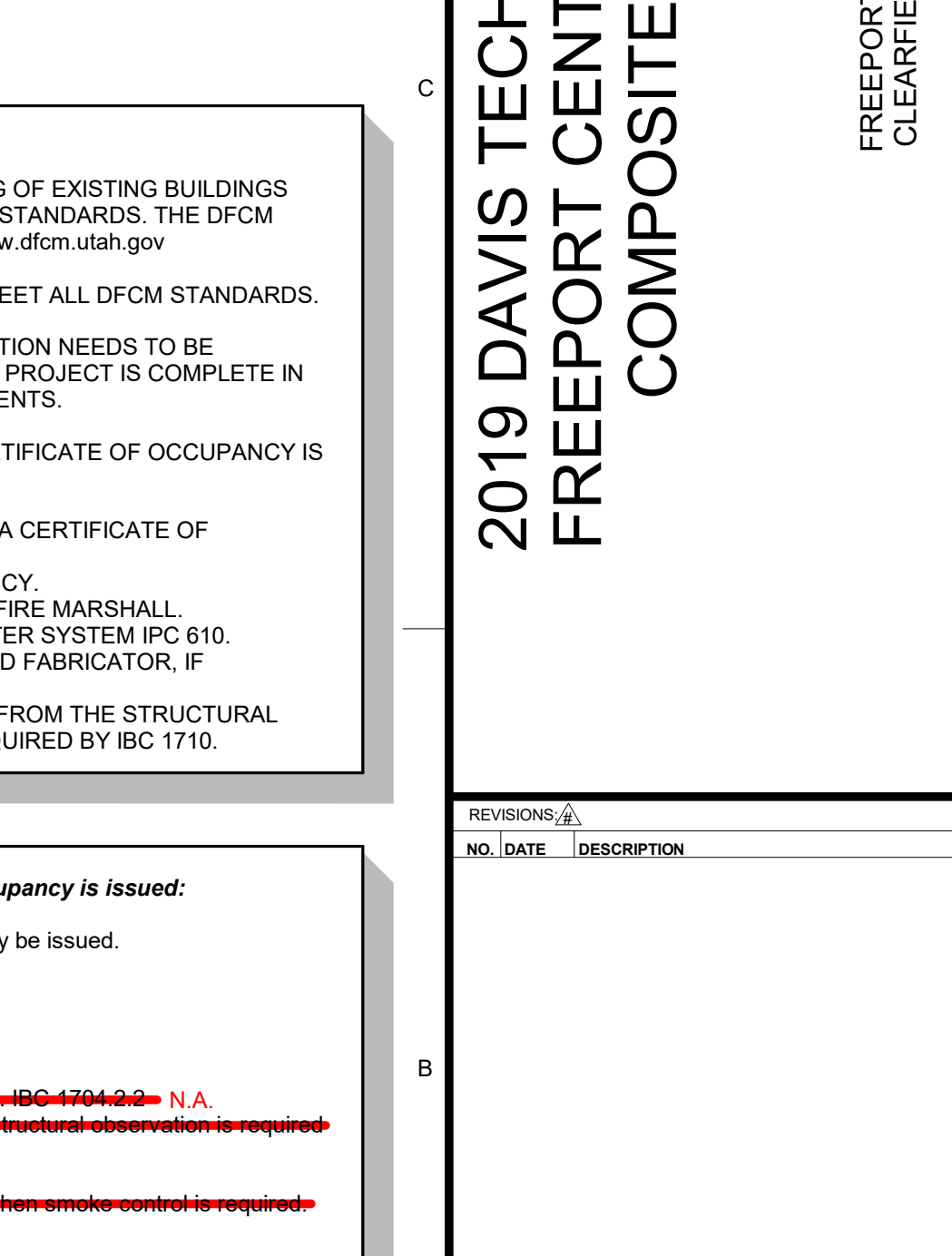


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Page 18 of 13

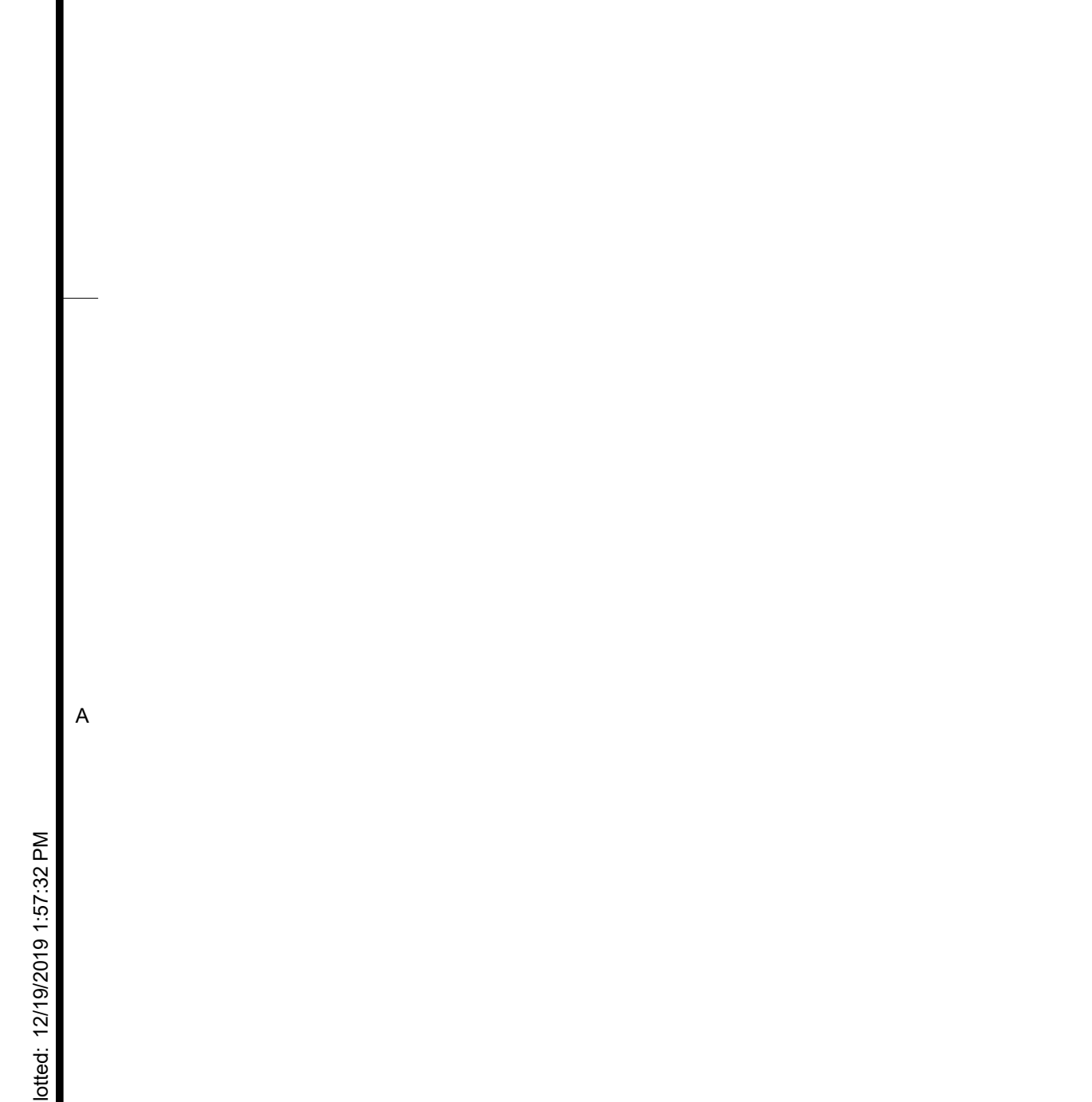


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Page 19 of 13

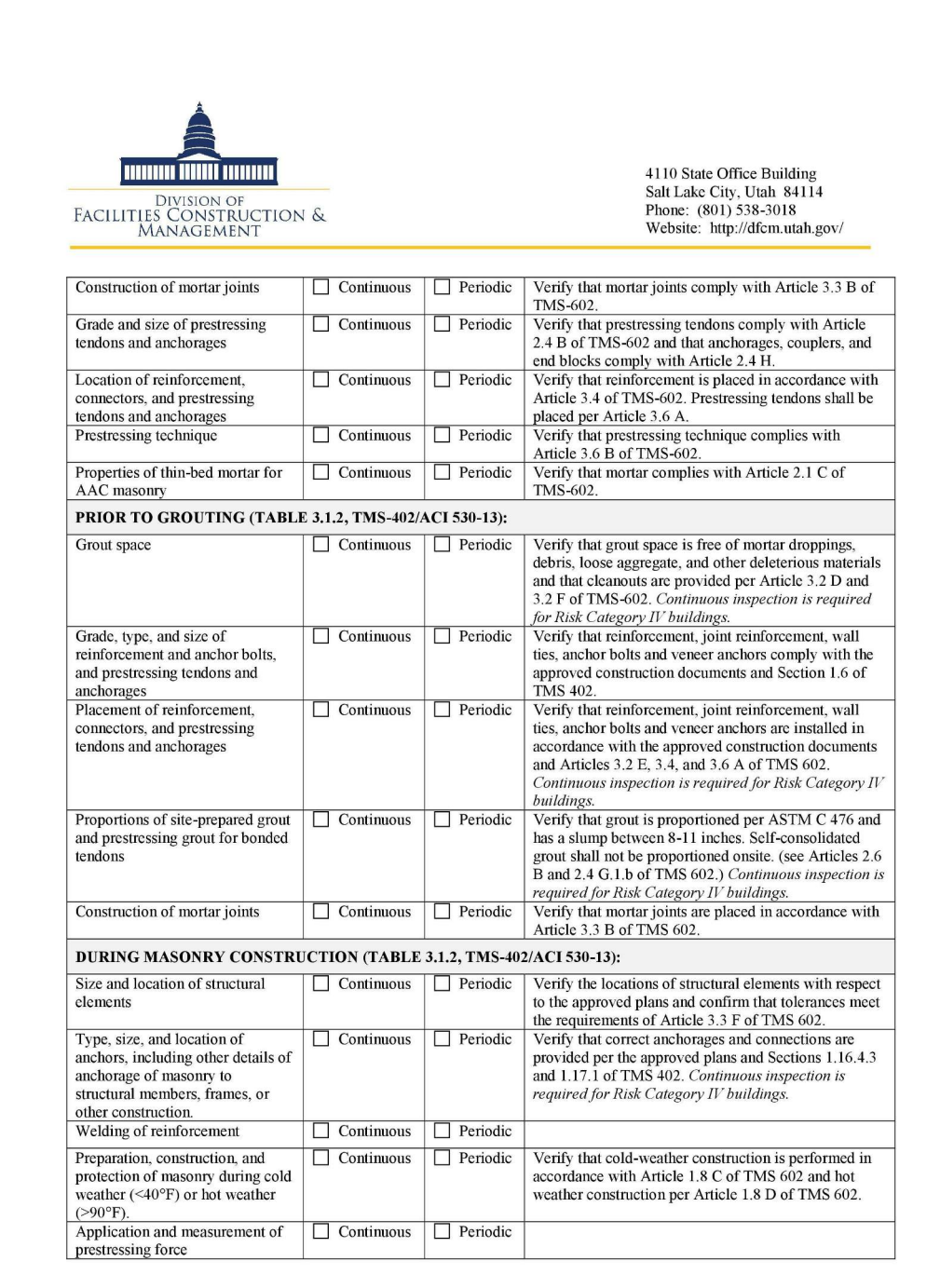


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Page 20 of 13

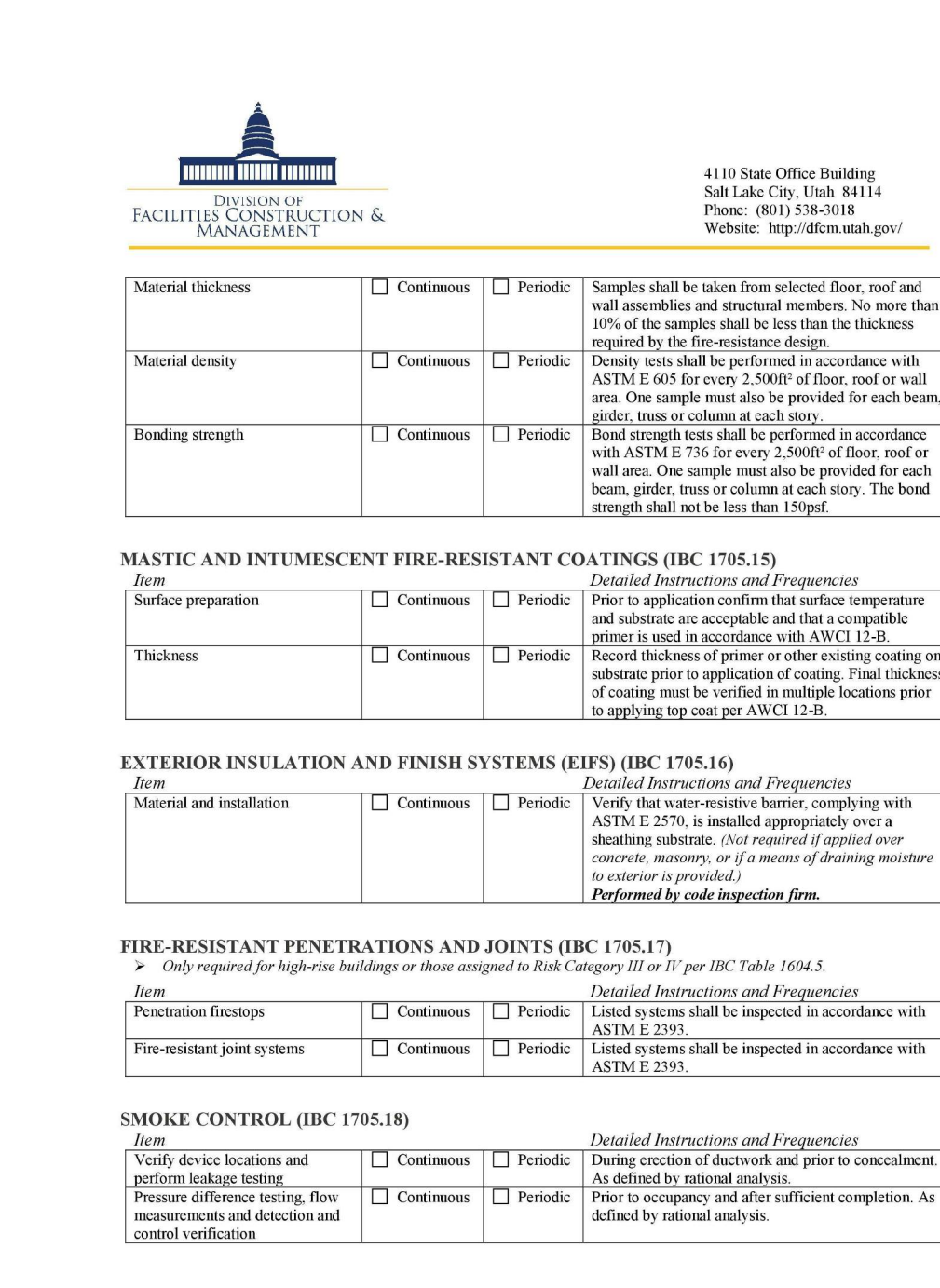


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Page 21 of 13

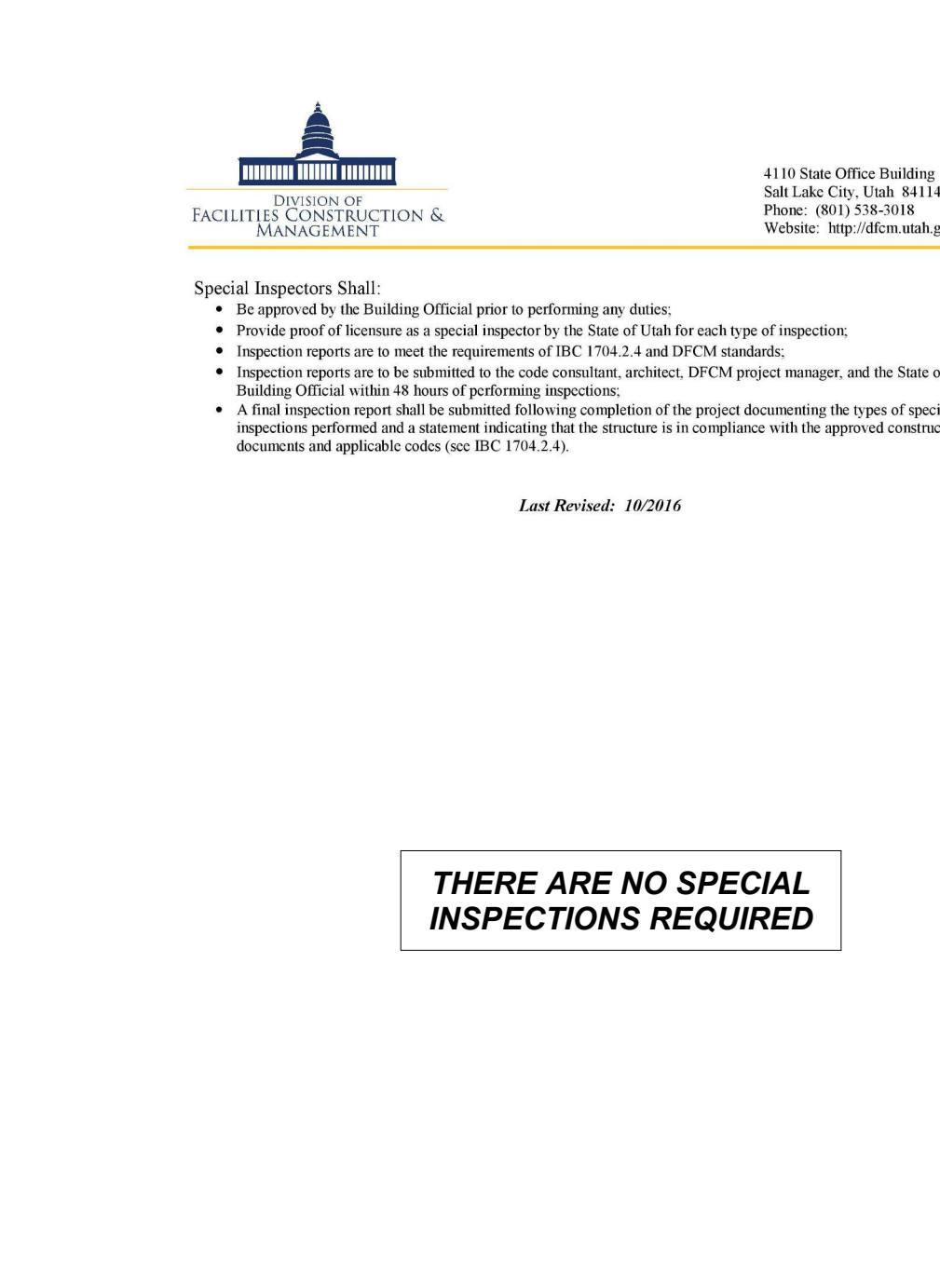


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Page 22 of 13

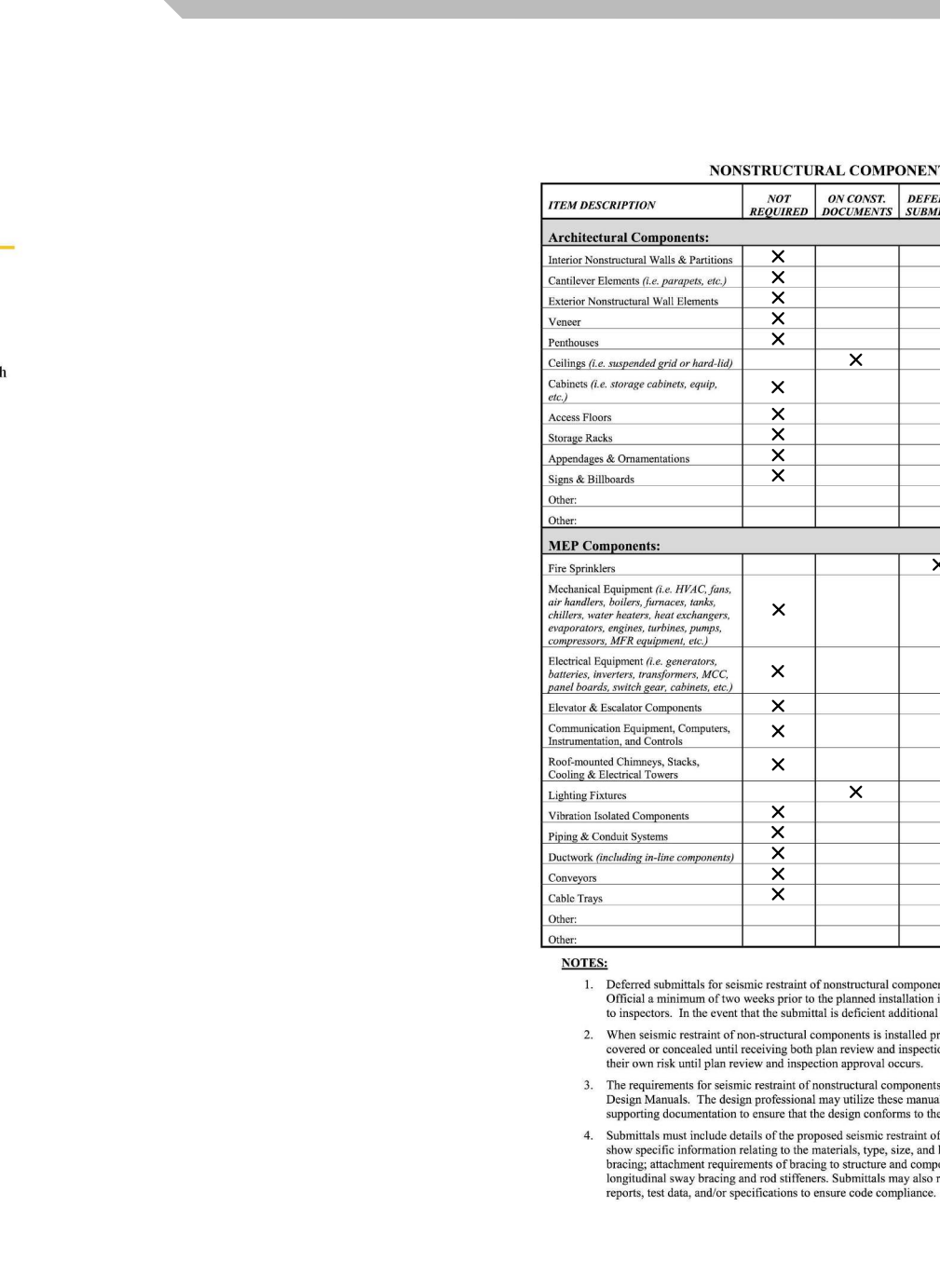


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Page 23 of 13

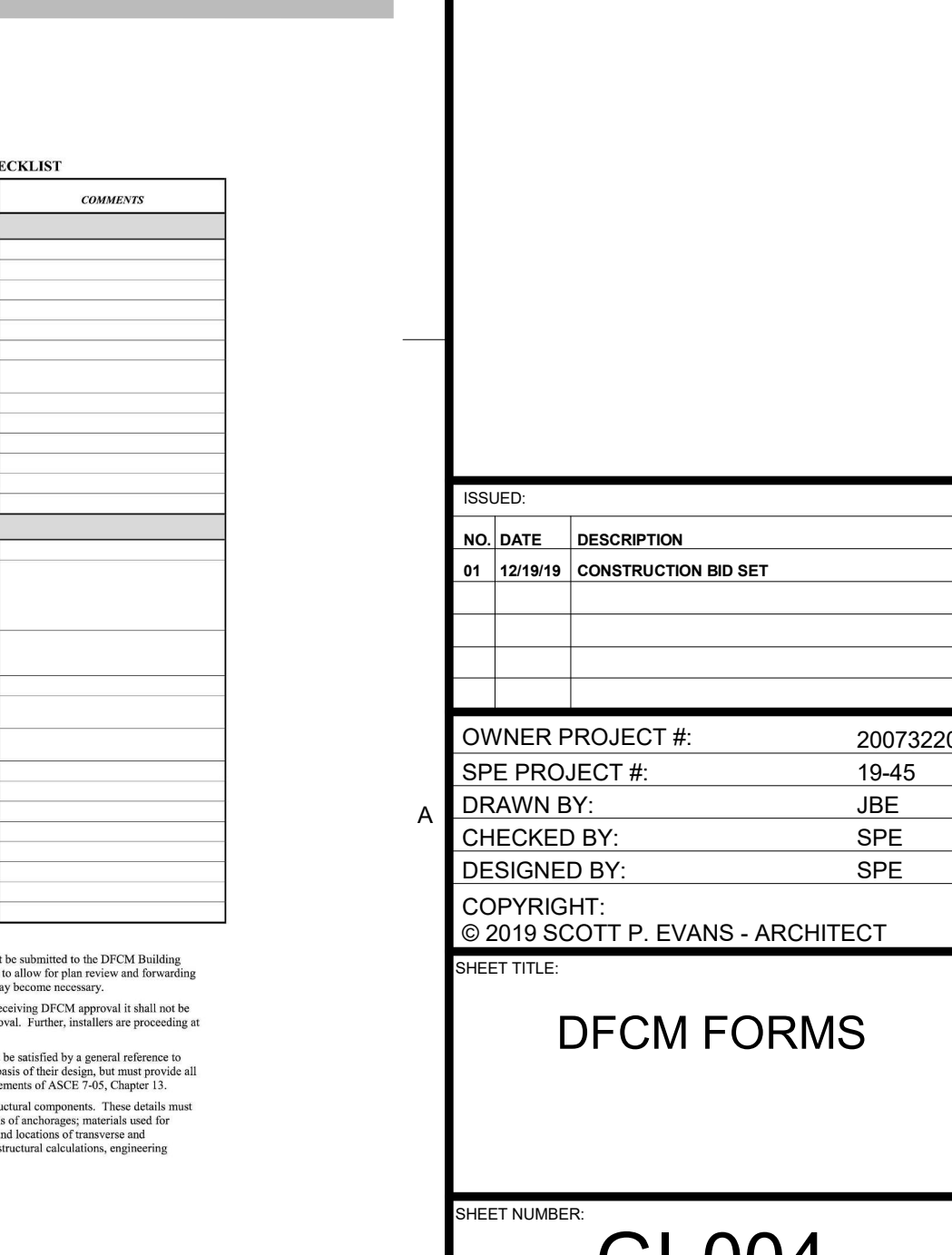


Table with 2 columns: Item, Continues, Periodic. Includes sections for Masonry Construction, AS Prepared Work, and Fire-Resistant Materials.

Page 24 of 13

THESE ARE NO SPECIAL INSPECTIONS REQUIRED

DFCM FORMS

GI-004

REVISIONS

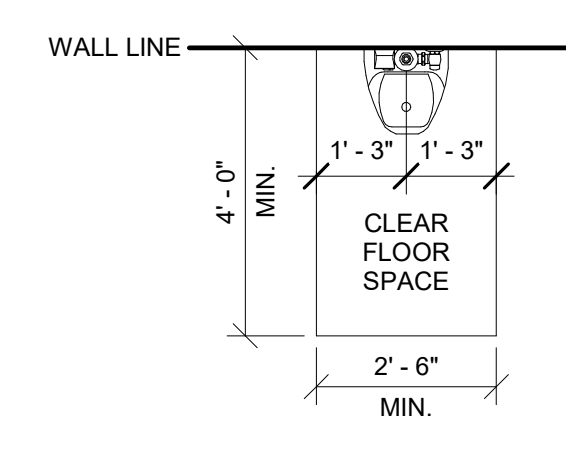
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NO.	DATE	DESCRIPTION
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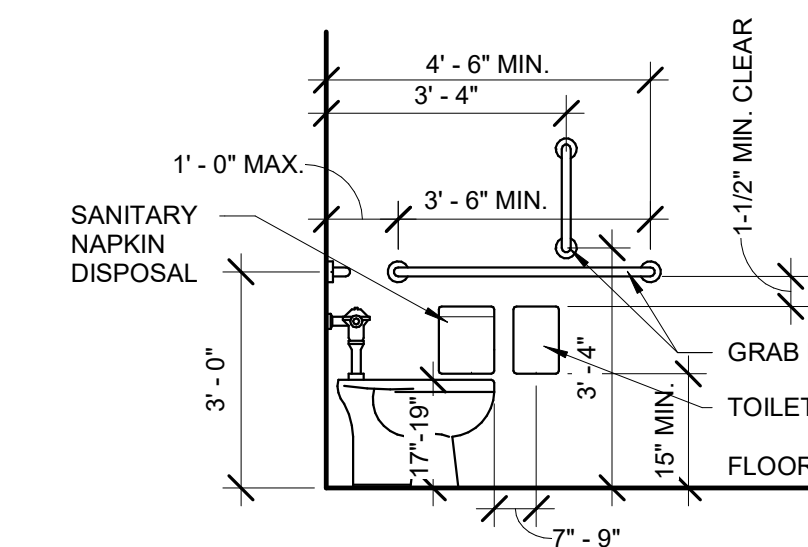
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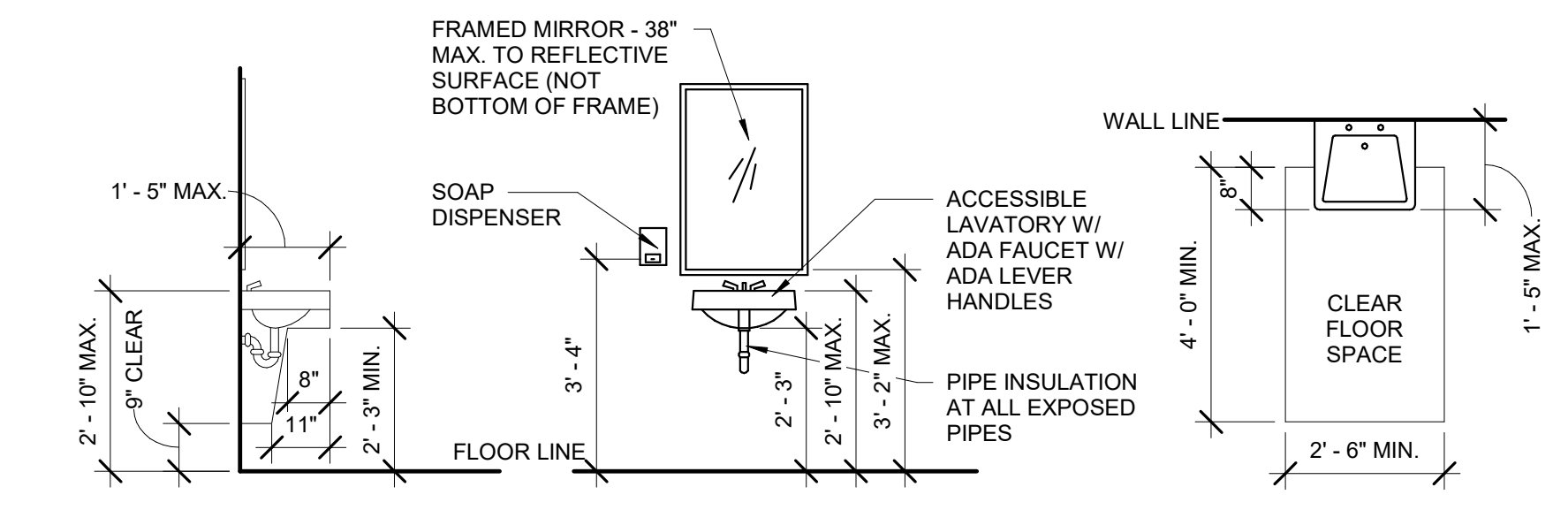
OWNER PROJECT #: 20073220
 SPE PROJECT #: 19-45
 DRAWN BY: JBE
 CHECKED BY: SPE
 DESIGNED BY: SPE
 COPYRIGHT: © 2019 SCOTT P. EVANS - ARCHITECT



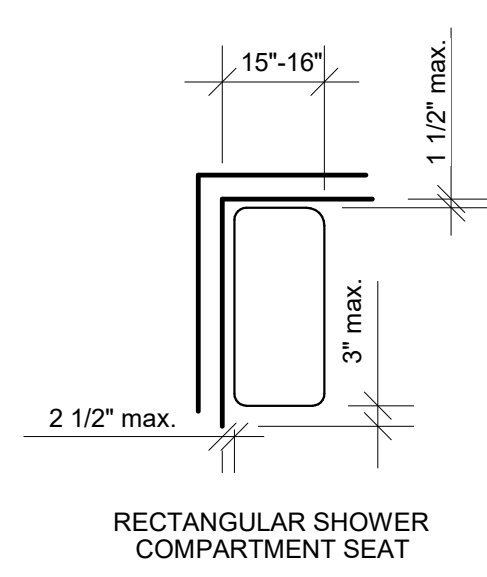
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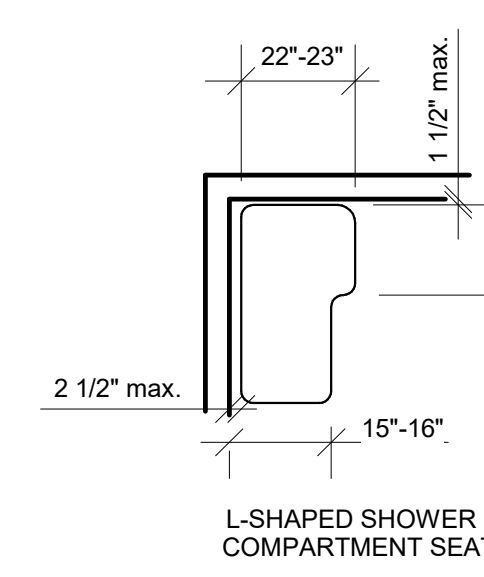
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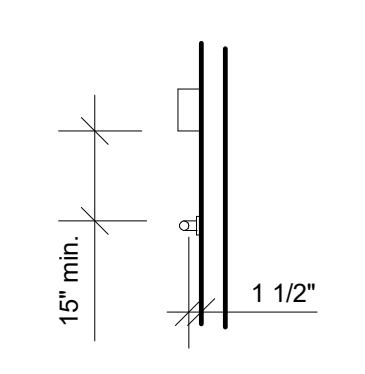
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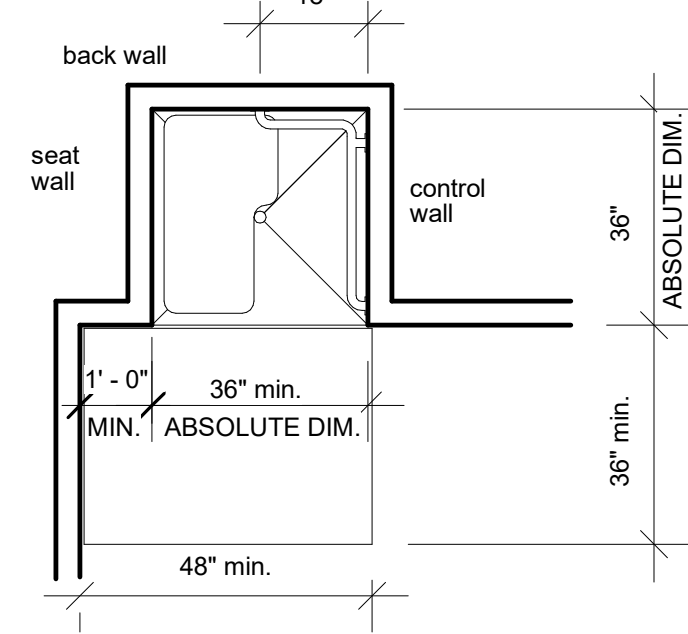
RECTANGULAR SHOWER COMPARTMENT SEAT



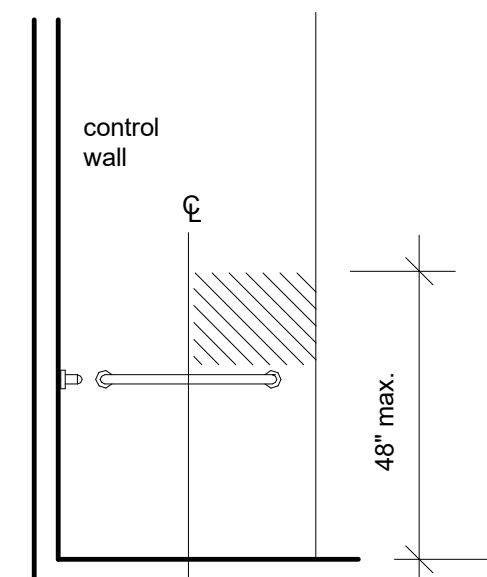
L-SHAPED SHOWER COMPARTMENT SEAT



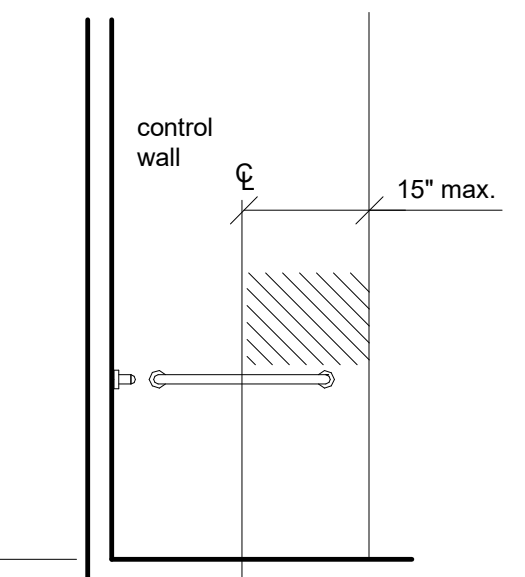
SPACING OF GRAB BARS



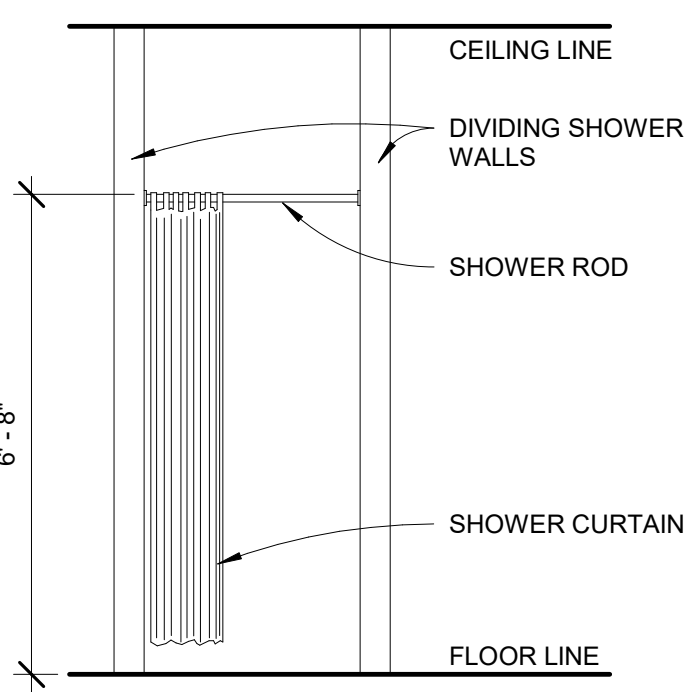
TRANSFER-TYPE SHOWER COMPARTMENT WITH GRAB BARS



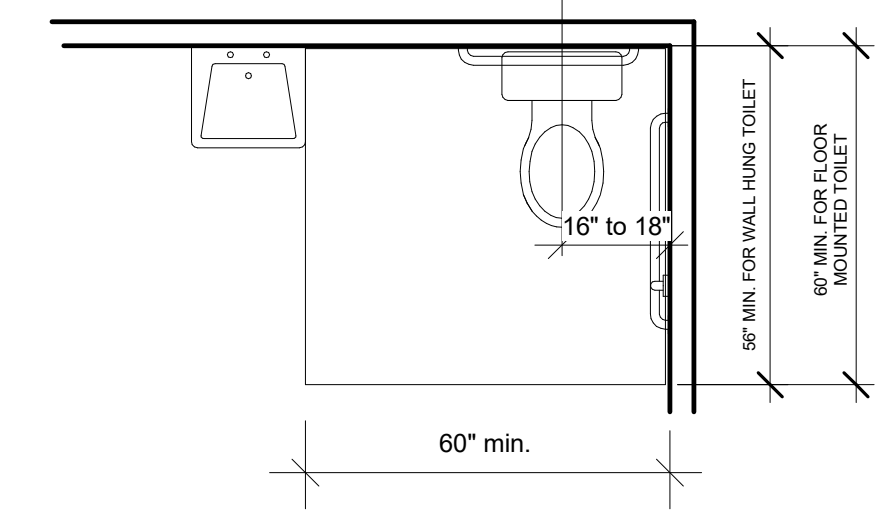
CONTROLS IN TRANSFER-TYPE SHOWER



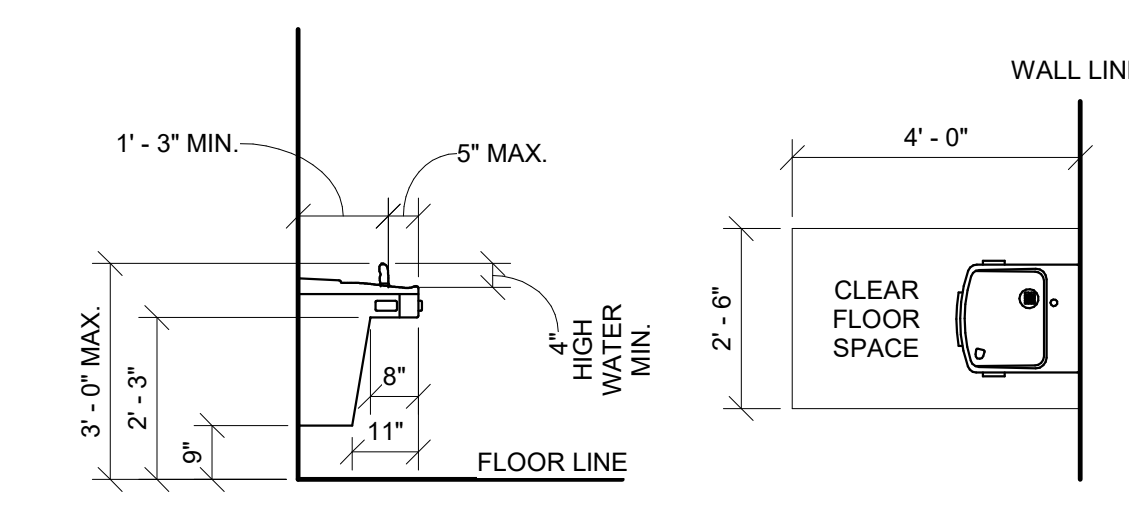
LOCATION OF SHOWER SPRAY UNIT



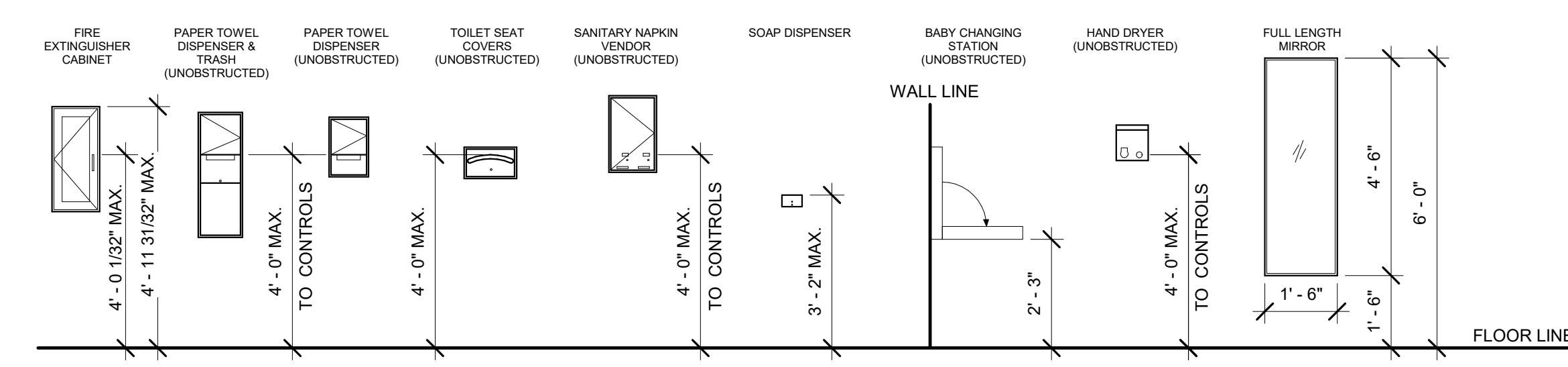
SHOWER ROD AND CURTAIN



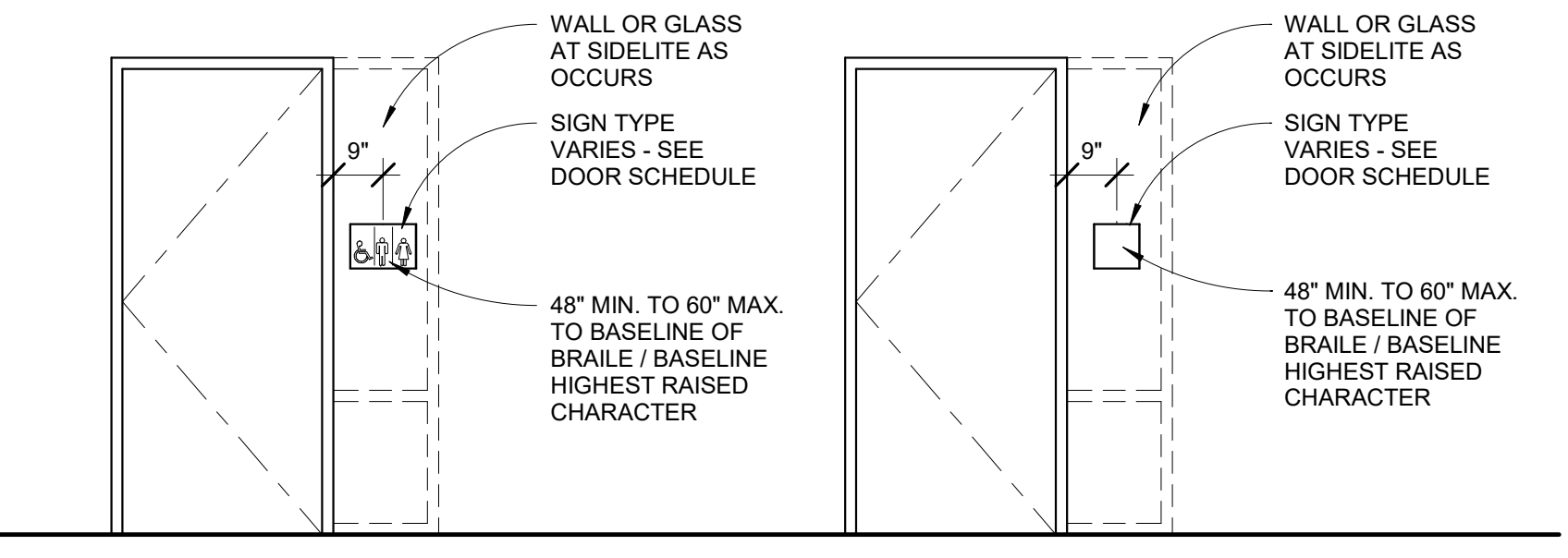
WATER CLOSET LOCATION / CLEAR FLOOR SPACE



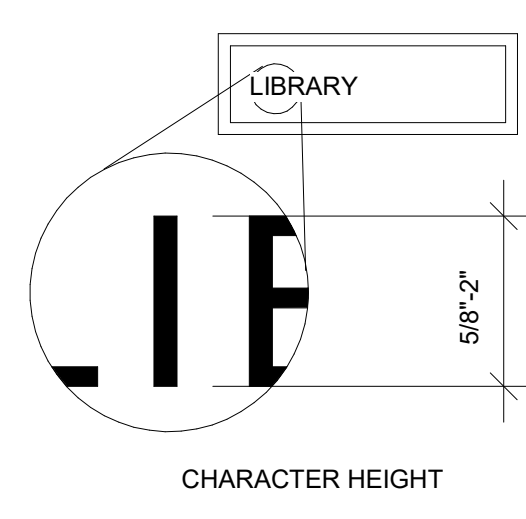
ELECTRIC WATER COOLER



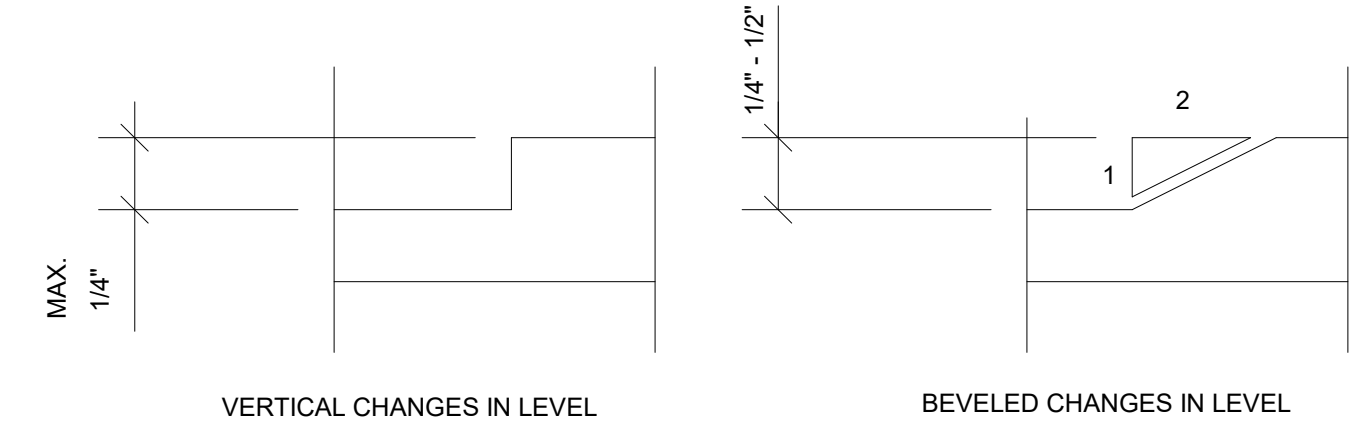
MISC. ACCESSORIES MOUNTING HEIGHT



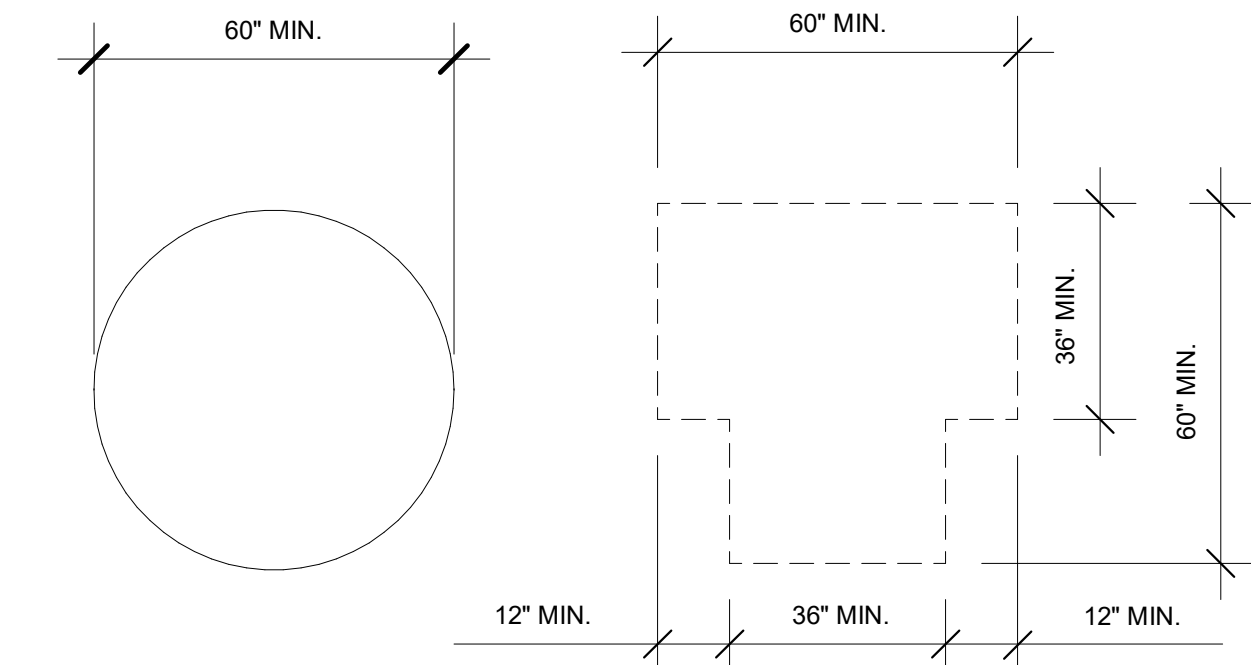
SIGNAGE AT DOORS



CHARACTER HEIGHT

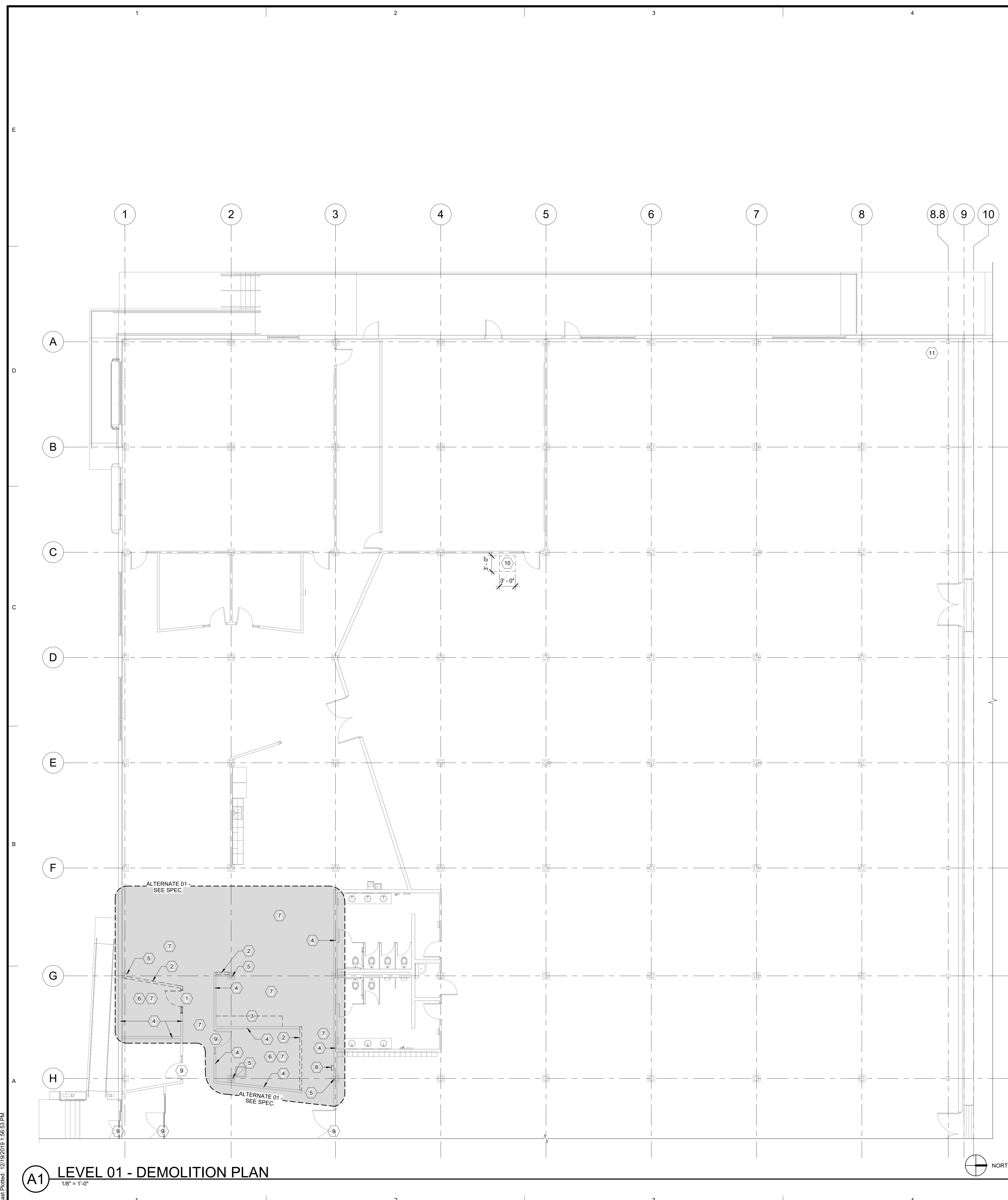


ACCESSIBLE CHANGES IN LEVEL

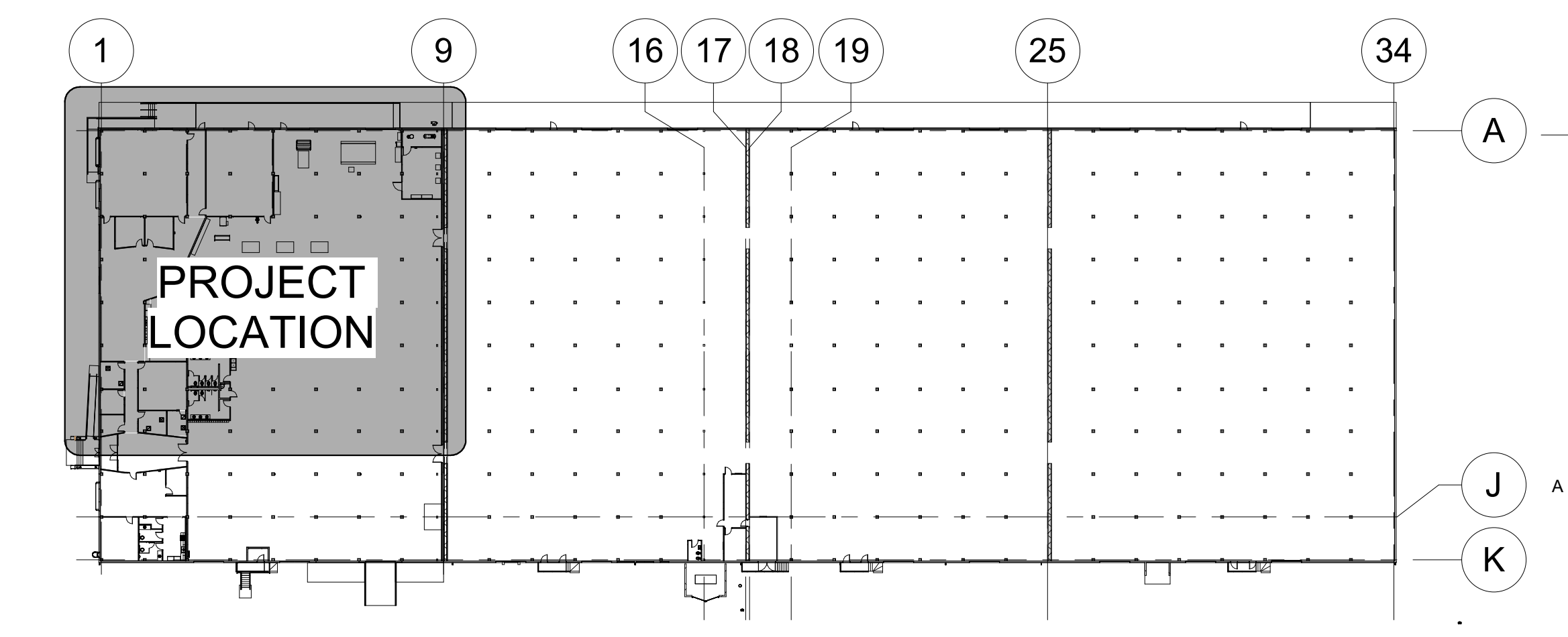


WHEELCHAIR TURNING SPACE

NOTE: INFORMATION ON THIS SHEET INDICATES GENERAL ADA DESIGN REQUIREMENTS AND IS FOR REFERENCE ONLY. ANY DESIGN DRAWINGS ARE TO BE CONSTRUCTED AS INDICATED IN THE DESIGN DRAWINGS. IF ANY QUESTIONS ARISE DUE TO CONFLICTING REQUIREMENTS, CONTACT THE ARCHITECT PRIOR TO PERFORMING WORK. PROVIDE BLOCKING / BACKING AS REQUIRED FOR ALL WALL MOUNTED ACCESSORIES / FIXTURES.



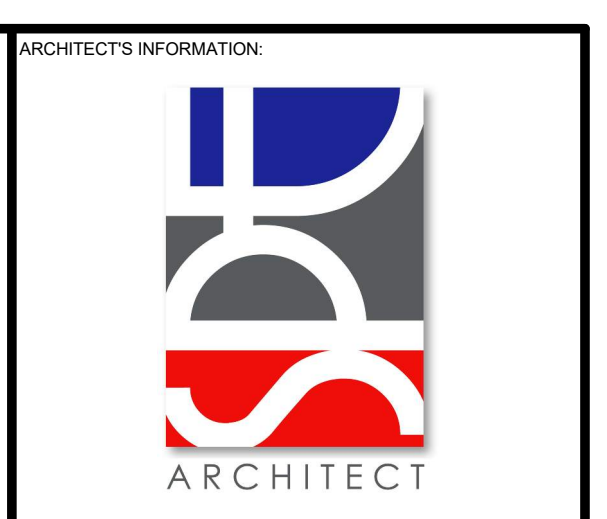
A1 LEVEL 01 - DEMOLITION PLAN
1/8" = 1'-0"



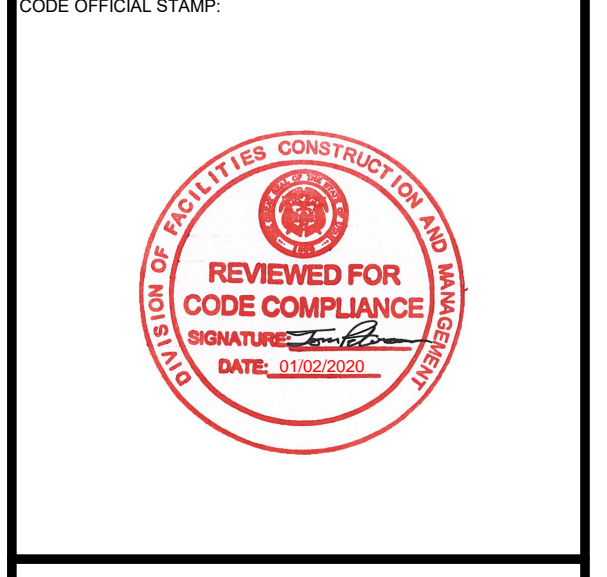
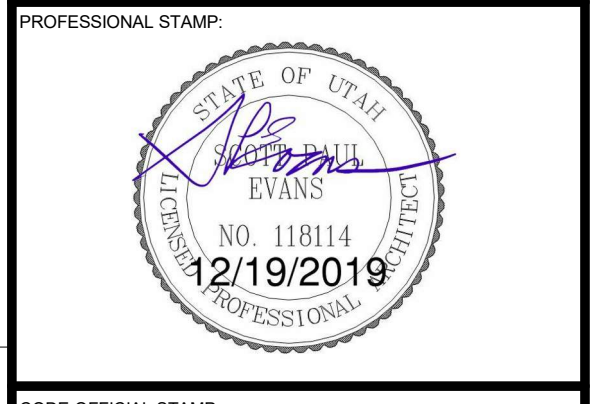
A5 KEY PLAN
1" = 60'-0"

KEYED NOTES

1. REMOVE EXTG. DOOR & ALL RELATED MATERIALS.
2. REMOVE EXTG. WALL & ALL RELATED MATERIALS - REFER TO ELECTRICAL DRAWINGS.
3. REMOVE EXTG. COUNTERTOP.
4. EXTG. GYP. BD. WALL TO REMAIN PROTECT FROM DAMAGE - REFER TO AE-101 & WALL TYPES FOR ANY NEW WORK.
5. EXTG. WOOD COLUMN TO REMAIN PROTECT FROM DAMAGE.
6. REMOVE / MODIFY EXTG. CEILING SYSTEM IN THIS ROOM - REFER TO AE-102 FOR NEW WORK.
7. EXTG. CARPET FLOORING IN THIS ROOM TO REMAIN OR BE MODIFIED AS REQUIRED - PATCH WITH NEW AS REQUIRED - REFER TO AE-101 FOR NEW WORK.
8. REMOVE EXTG. FIRE EXTINGUISHER CABINET - PATCH WALL AS REQUIRED - PAINT.
9. EXTG. DOOR SYSTEM TO REMAIN - PROTECT FROM DAMAGE.
10. SAWCUT & REMOVE EXTG. CONCRETE SLAB, GRAVEL & EARTH - REFER TO AE-101 FOR NEW WORK.
11. SAWCUT & REMOVE EXTG. CONCRETE SLAB AS REQUIRED TO INSTALL NEW FLOOR DRAIN - REFER TO AE-101 & PLUMBING DRAWINGS.



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
t: 801.298.1368 - f: 801.298.2192
info@spe-architect.com
www.spe-architect.com



2019 DAVIS TECHNICAL COLLEGE
FREERPORT CENTER BUILDING D5
COMPOSITES REMODEL

FREERPORT CENTER
CLEARFIELD, UTAH

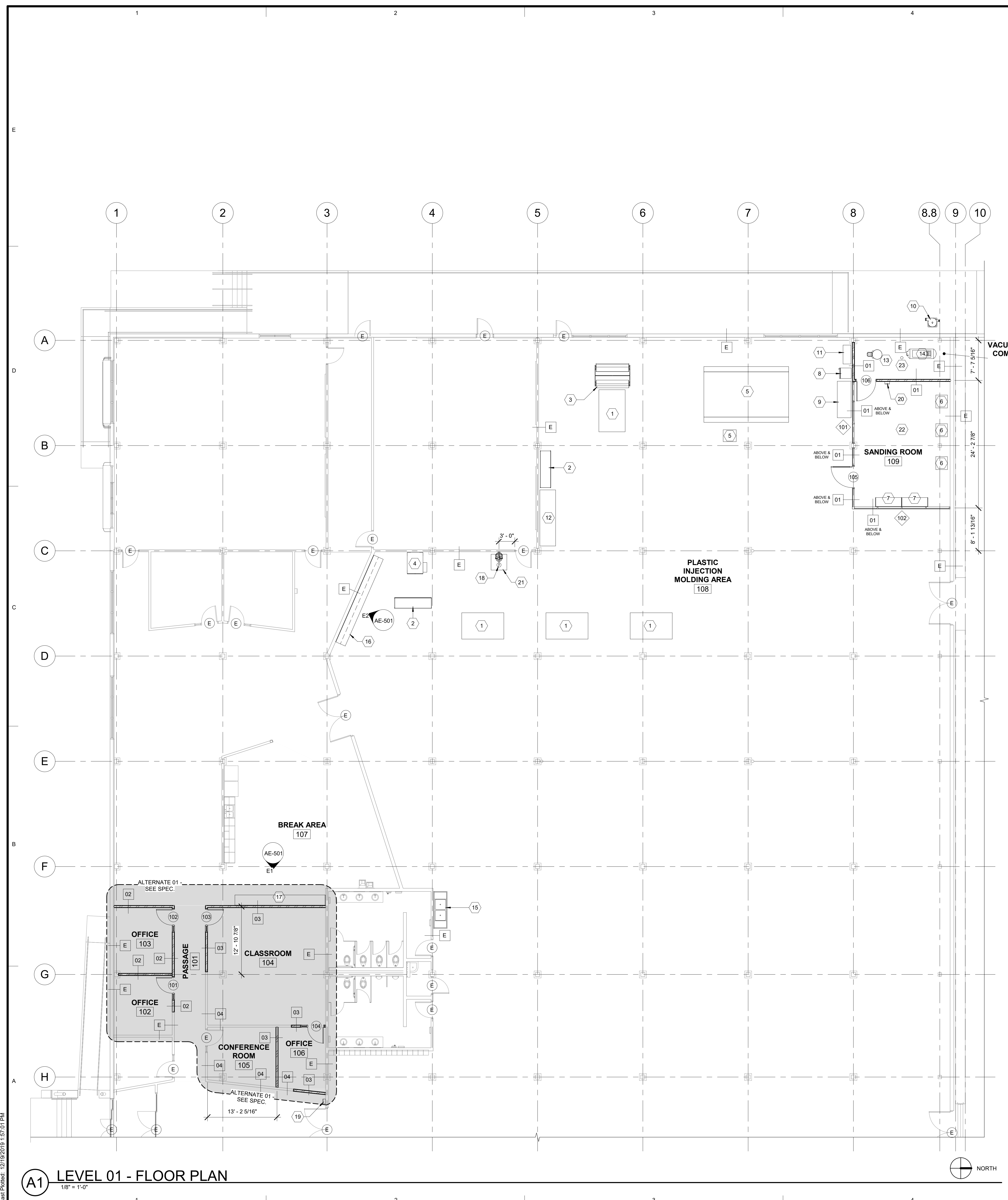
NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

OWNER PROJECT #:	20073220
SPE PROJECT #:	19-45
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	SPE
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DEMOLITION PLAN

SHEET NUMBER:
AD-101

Last Pooled: 12/19/2019 1:56:53 PM

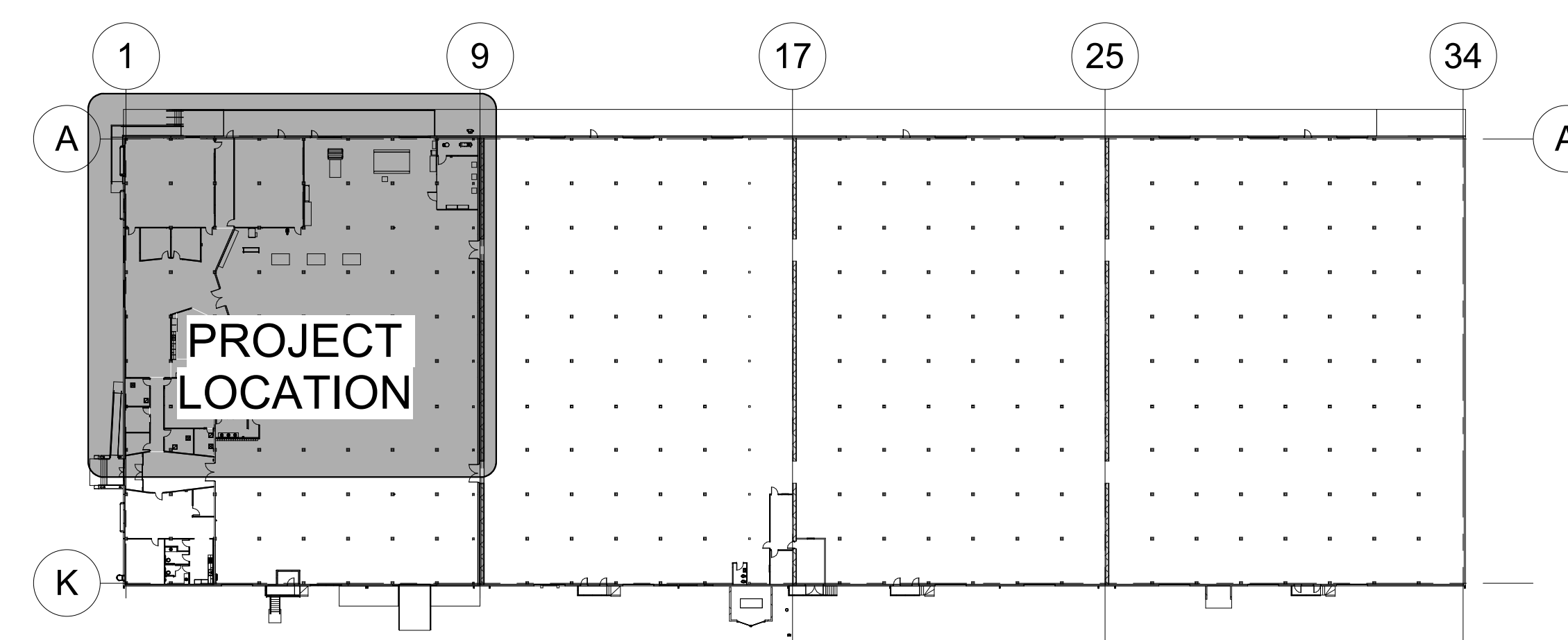


WALL TYPES LEGEND

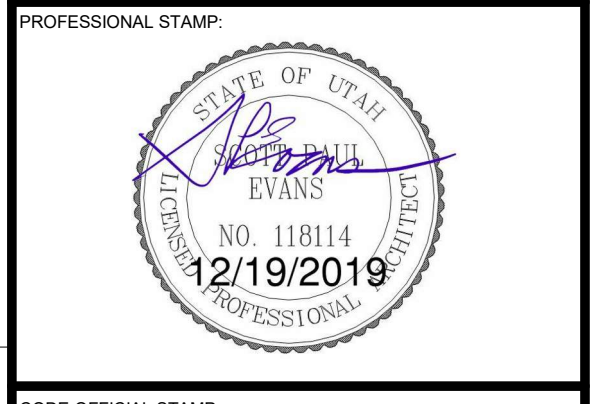
MARK	DESIGNATION	DESCRIPTION	SOUND RATING	FIRE RATING	ACTUAL WIDTH
01	[Hatched Box]	3-5/8" 20 ga. metal studs at 16" O.C. with 5/8" type "X" gypsum board each side - Provide 3" sound attenuation blankets between studs - run wall roof deck above - work around extg. duct work as required - refer to detail D1/AE-501	Yes	None	4 7/8"
02	[Hatched Box]	362S162-43 metal studs at 16" O.C. with 5/8" type "X" gypsum board each side - Provide 3" sound attenuation blankets between studs - run walls to 9'-0" high - refer to detail C2/AE-501	Yes	None	4 7/8"
03	[Hatched Box]	362S162-43 metal studs at 16" O.C. with 5/8" type "X" gypsum board each side - Provide 3" sound attenuation blankets between studs - run walls to 10'-0" high - refer to detail C2/AE-501	Yes	None	4 7/8"
04	[White Box]	Extg. metal stud wall up to 9'-0" to remain protect from damage - build new wall (from top of extg. wall up to 10'-0") w/ 362S162-43 metal studs at 16" O.C. with 5/8" type "X" gypsum board each side - Provide 3" sound attenuation blankets between studs - refer to detail C3/AE-501.	Yes	None	4 7/8"
E	varies	extg. wall type to remain - refer to finish schedule for any work.	n/a	n/a	varies

- ### KEYED NOTES
- 8'x5' WORK TABLE - BY OWNER - PROVIDE & INSTALL NEW DROP DOWN POWER - REFER TO ELECTRICAL DRAWINGS.
 - STORAGE SHELVES - BY OWNER.
 - SIX ROLL FABRIC RACK SYSTEM - BY OWNER.
 - INSTALL OWNER PROVIDED BENCH OWEN - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - INSTALL OWNER PROVIDED CUTTER MACHINE - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - INSTALL OWNER PROVIDED STANDING DISC SANDER - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - INSTALL OWNER PROVIDED DOWNDRAFT TABLE - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - UPRIGHT FREEZER - BY OWNER - REFER TO ELECTRICAL DRAWINGS.
 - CHEST FREEZER - BY OWNER - REFER TO ELECTRICAL DRAWINGS.
 - INSTALL OWNER PROVIDED HIGH VACUUM CYCLONE DUST COLLECTOR - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - FLAMMABLE STORAGE CABINET - BY OWNER - REFER TO MECHANICAL DRAWINGS.
 - ROLLING WORKBENCH WITH TOOLS - BY OWNER - REFER & ELECTRICAL DRAWINGS.
 - INSTALL OWNER PROVIDED AIR COMPRESSOR - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - INSTALL OWNER PROVIDED VACUUM PUMP - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - PROVIDE & INSTALL NEW 2-BAY SINK - SAWCUT & REMOVE EXTG. CONCRETE SLAB AS REQUIRED TO INSTALL NEW PLUMBING - PATCH WITH NEW CONCRETE (MATCH EXTG. FINISH AS REQUIRED) REFER TO PLUMBING DRAWINGS.
 - PROVIDE & INSTALL NEW 24" DEEP STAINLESS WORKBENCH WITH 16" DEEP SHELF ABOVE - REFER TO MECHANICAL & ELECTRICAL DRAWINGS - REFER TO ELEVATION INDICATED.
 - PROVIDE & INSTALL NEW 24" DEEP COUNTERTOP - REFER TO ELEVATION INDICATED.
 - PROVIDE & INSTALL NEW EYE WASH STATION - REFER TO PLUMBING DRAWINGS.
 - PROVIDE & INSTALL NEW FIRE EXTINGUISHER CABINET IN EXTG. WALL - SEE SPEC.
 - PROVIDE & INSTALL NEW FIRE EXTINGUISHER CABINET IN NEW WALL - SEE SPEC.
 - PROVIDE & INSTALL NEW GRAVEL SUMP, FLOOR DRAIN & NEW CONCRETE SLAB (SLOPE NEW TO DRAIN) - REFER TO DETAIL C5/AE-501 - REFER TO PLUMBING DRAWING - SEE SPEC.
 - PROVIDE & INSTALL NEW ROOF TOP EXHAUST FAN - REFER TO MECHANICAL DRAWINGS - PATCH EXTG. SINGLE PLY ROOFING SYSTEM AS REQUIRED TO MAINTAIN WARRANTY.
 - PROVIDE & INSTALL NEW FLOOR DRAIN - REFER TO PLUMBING DRAWINGS - PATCH EXTG. CONCRETE SLAB AS REQUIRED.

ALL OWNER PROVIDED, CONTRACTOR INSTALLED EQUIPMENT NEEDS TO BE INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE WITH OWNER AND PRODUCT CUTSHEETS.



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com



PROJECT NAME:

**2019 DAVIS TECHNICAL COLLEGE
 FREEPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

REVISIONS:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

OWNER PROJECT #: 20073220
 SPE PROJECT #: 19-45
 DRAWN BY: JBE
 CHECKED BY: SPE
 DESIGNED BY: SPE
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FLOOR PLAN

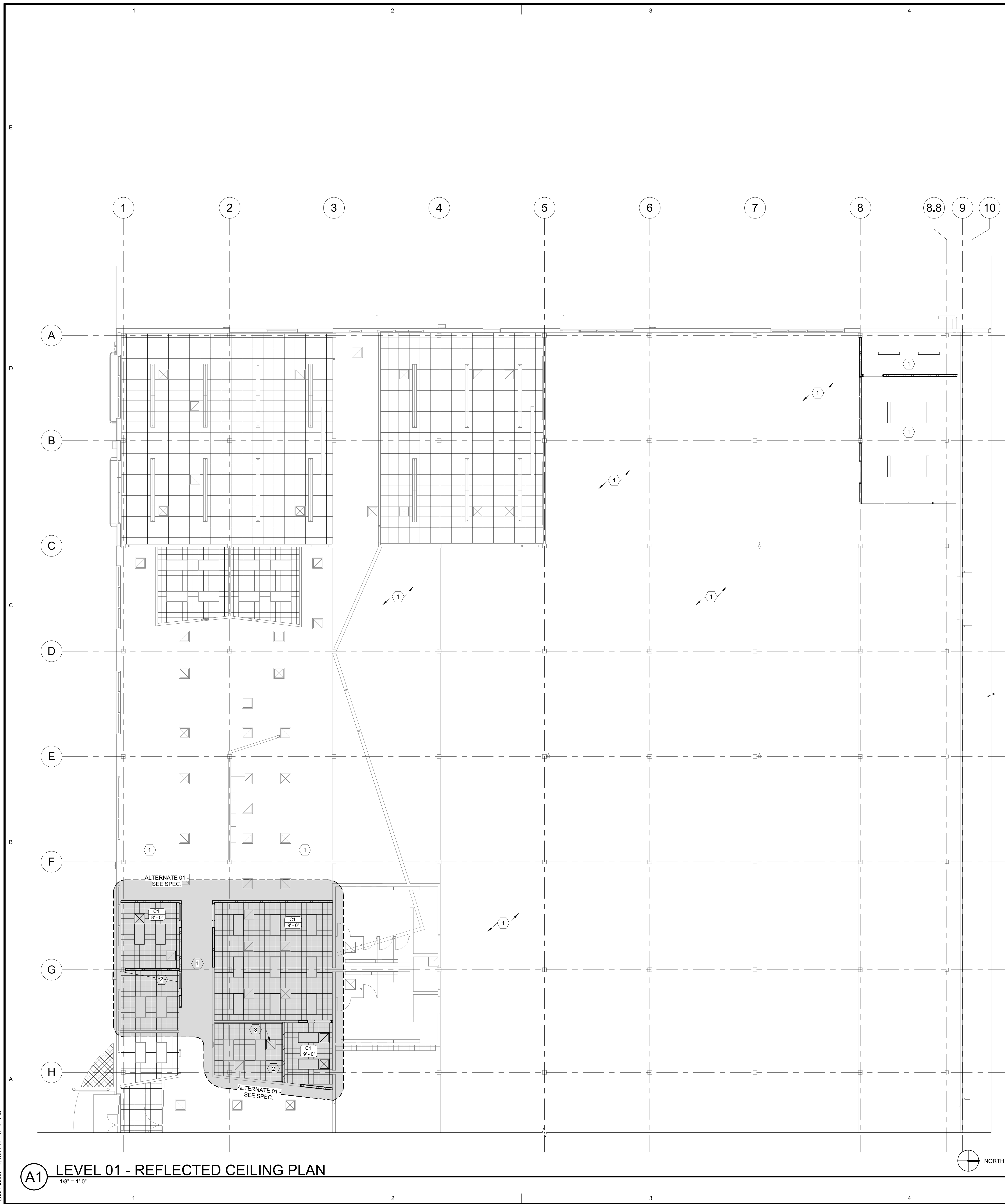
SHEET NUMBER:
AE-101

Last Pooled: 12/19/2019 1:57:01 PM

A1 LEVEL 01 - FLOOR PLAN
 1/8" = 1'-0"

A5 KEY PLAN
 1" = 60'-0"





(A1) LEVEL 01 - REFLECTED CEILING PLAN
1/8" = 1'-0"

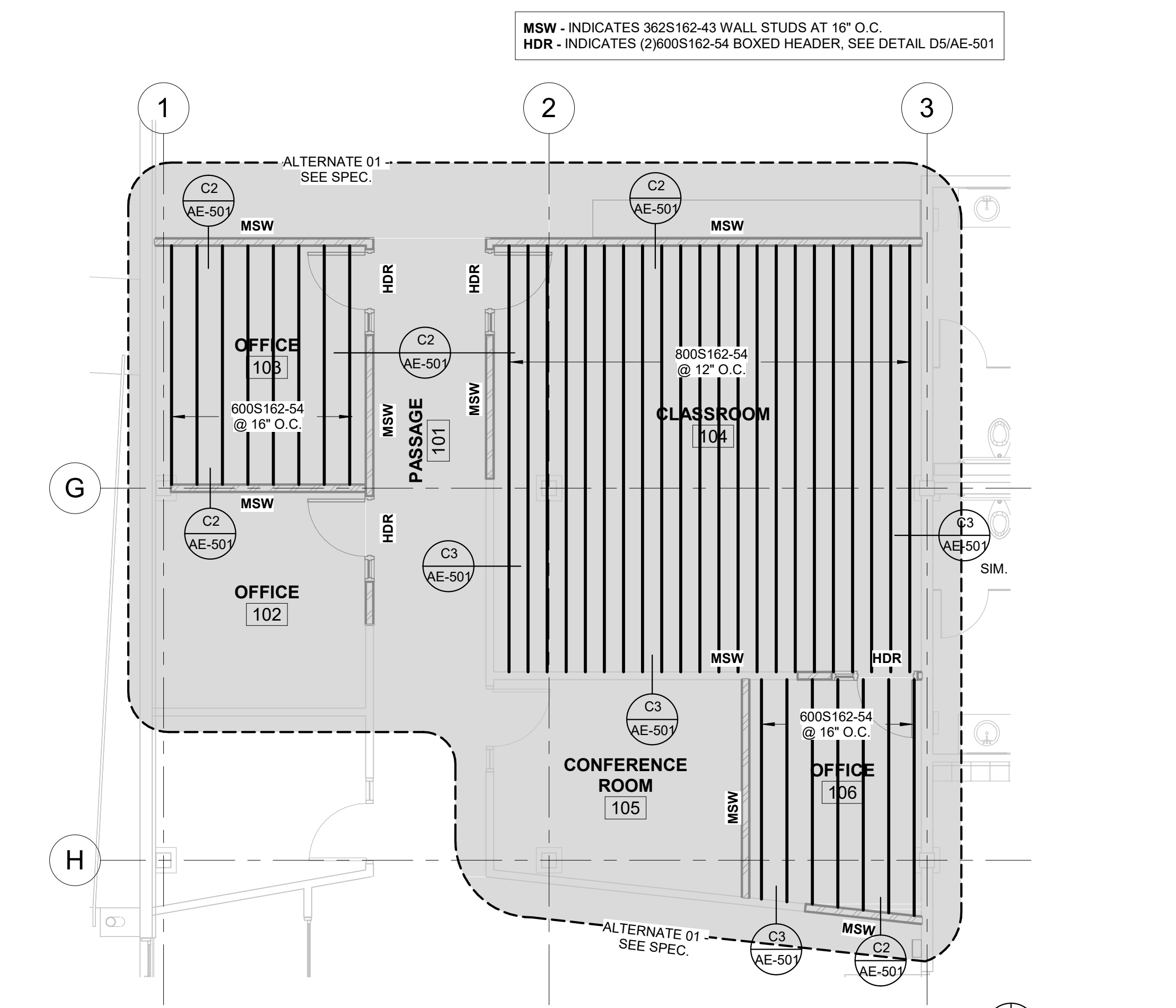
CEILING TYPE LEGEND

TYPE HEIGHT	C1	SEE PLAN
		12"x12" ACOUSTICAL TILE APPLIED TO FRAMED GYP. BD. CEILING SYSTEM - SEE SPEC. - REFER TO DETAIL C2&C3/AE-501.

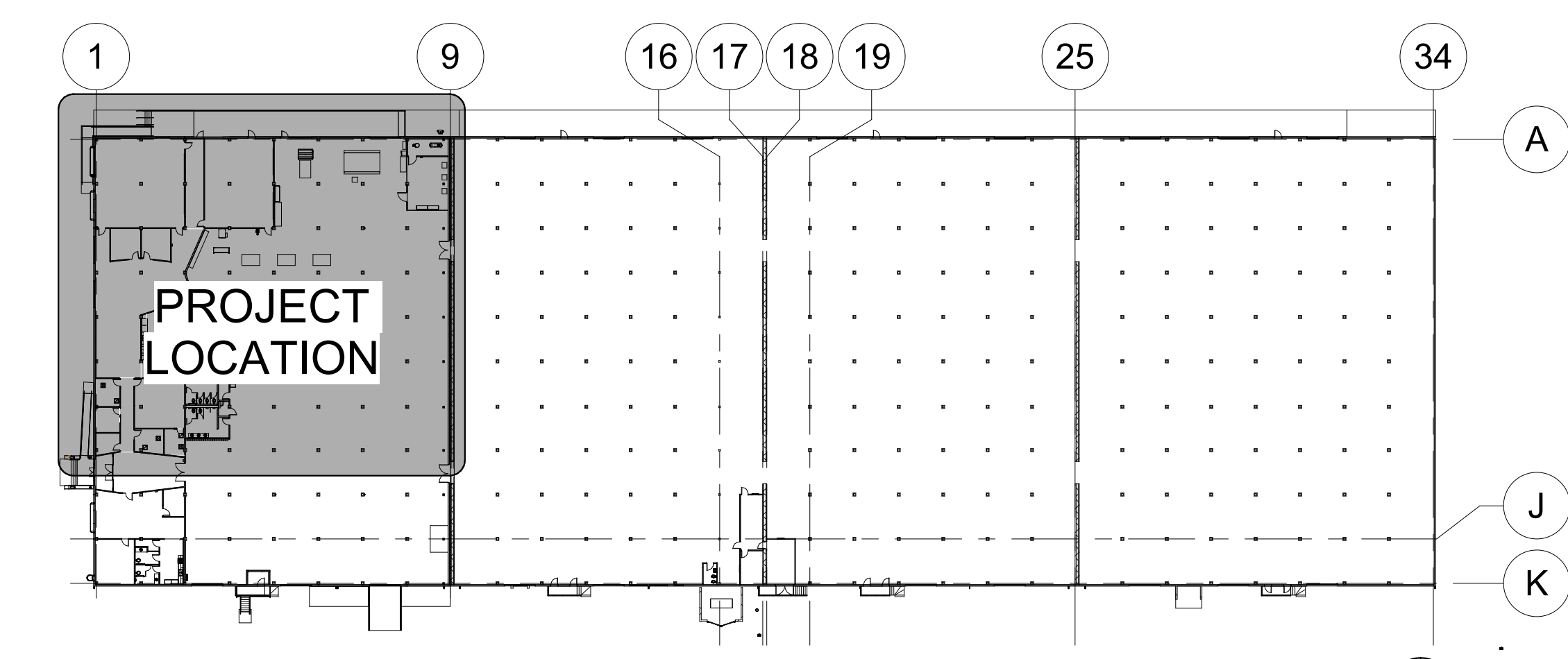
- ### KEYED NOTES
- OPEN TO STRUCTURE ABOVE.
 - MODIFY/ADD TO EXTG. CEILING SYSTEM AS REQUIRED TO PERFORM NEW WORK - REBUILT CEILING STRUCTURE AS REQUIRED - MATCH EXTG.
 - EXTG. HVAC GRILLE TO BE RELOCATED - SEE MECHANICAL DRAWINGS.

CEILING LEGEND

	SUSPENDED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	2x4 TROFFER LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	RETURN AIR DIFFUSER - SEE MECHANICAL DRAWINGS
	SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS



(B5) LEVEL 01 - NEW CEILING FRAMING PLAN
3/16" = 1'-0"



(A5) KEY PLAN
1" = 60'-0"

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
t: 801.298.1368 - f: 801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**2019 DAVIS TECHNICAL COLLEGE
FREERPORT CENTER BUILDING D5
COMPOSITES REMODEL**

FREERPORT CENTER
CLEARFIELD, UTAH

NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

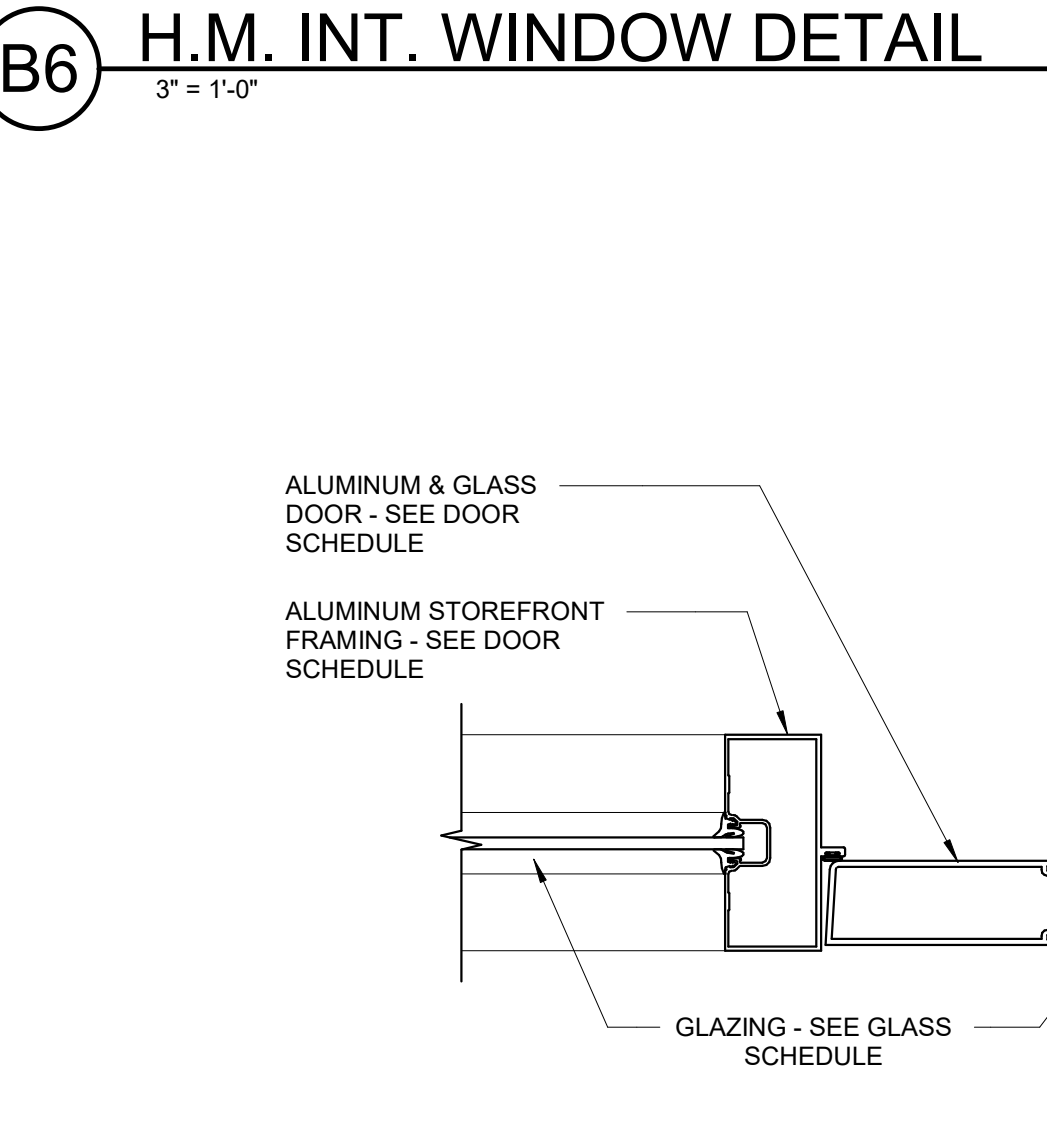
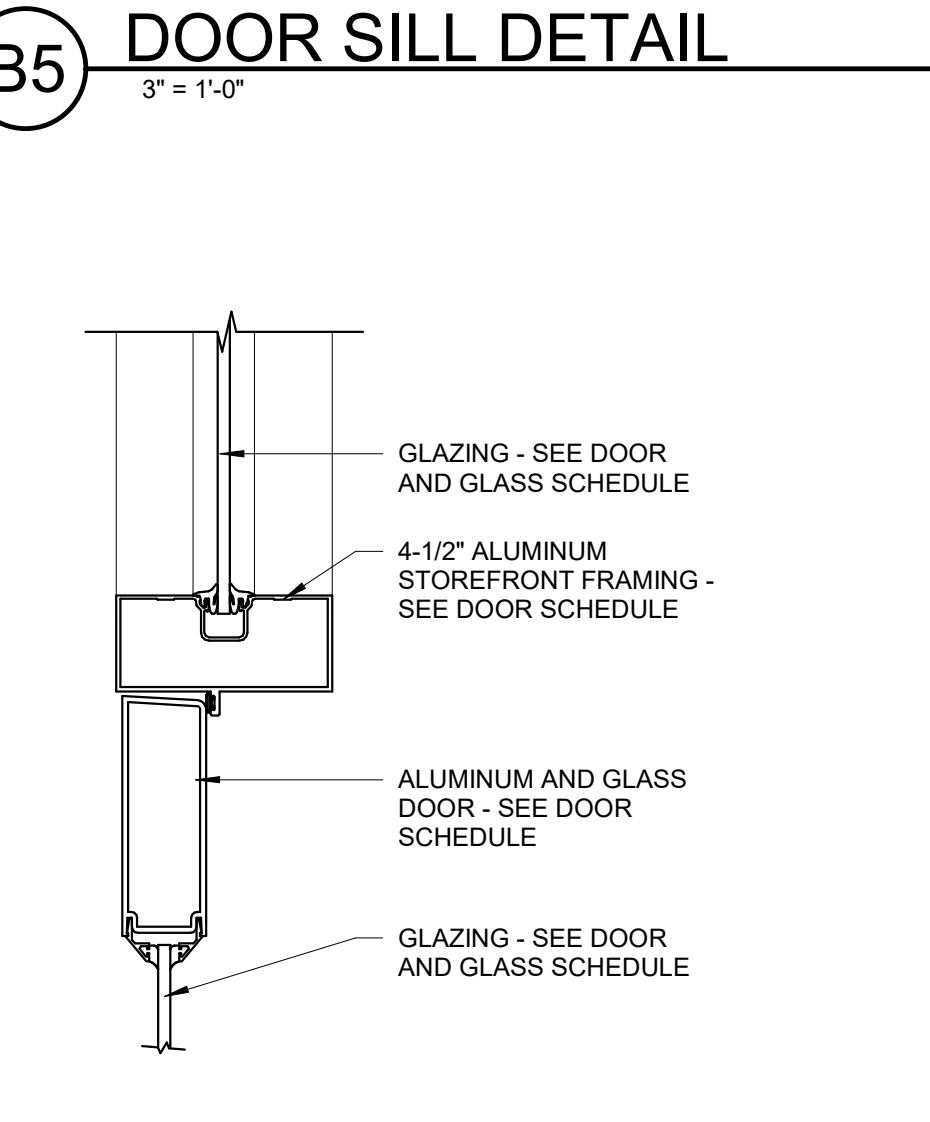
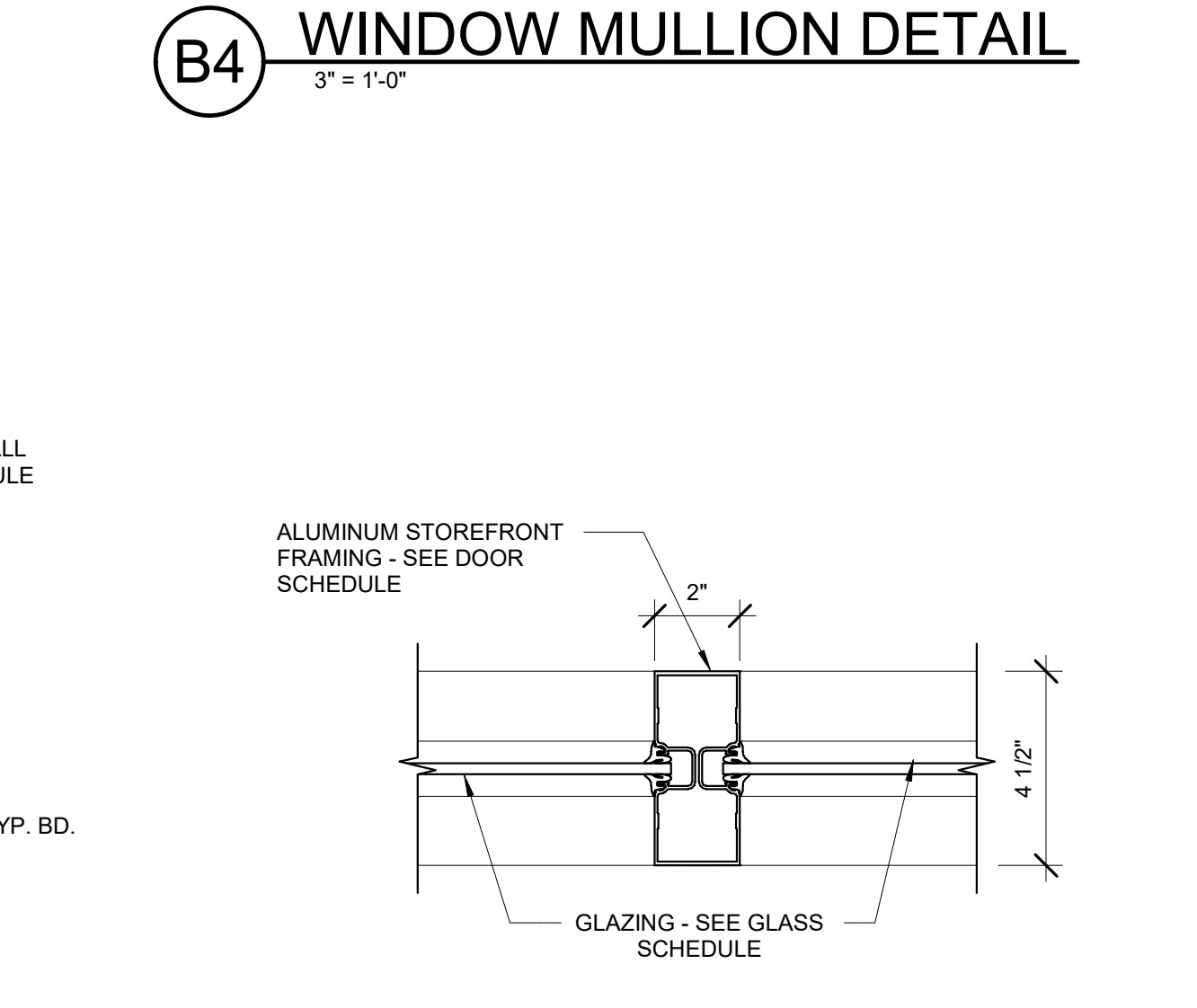
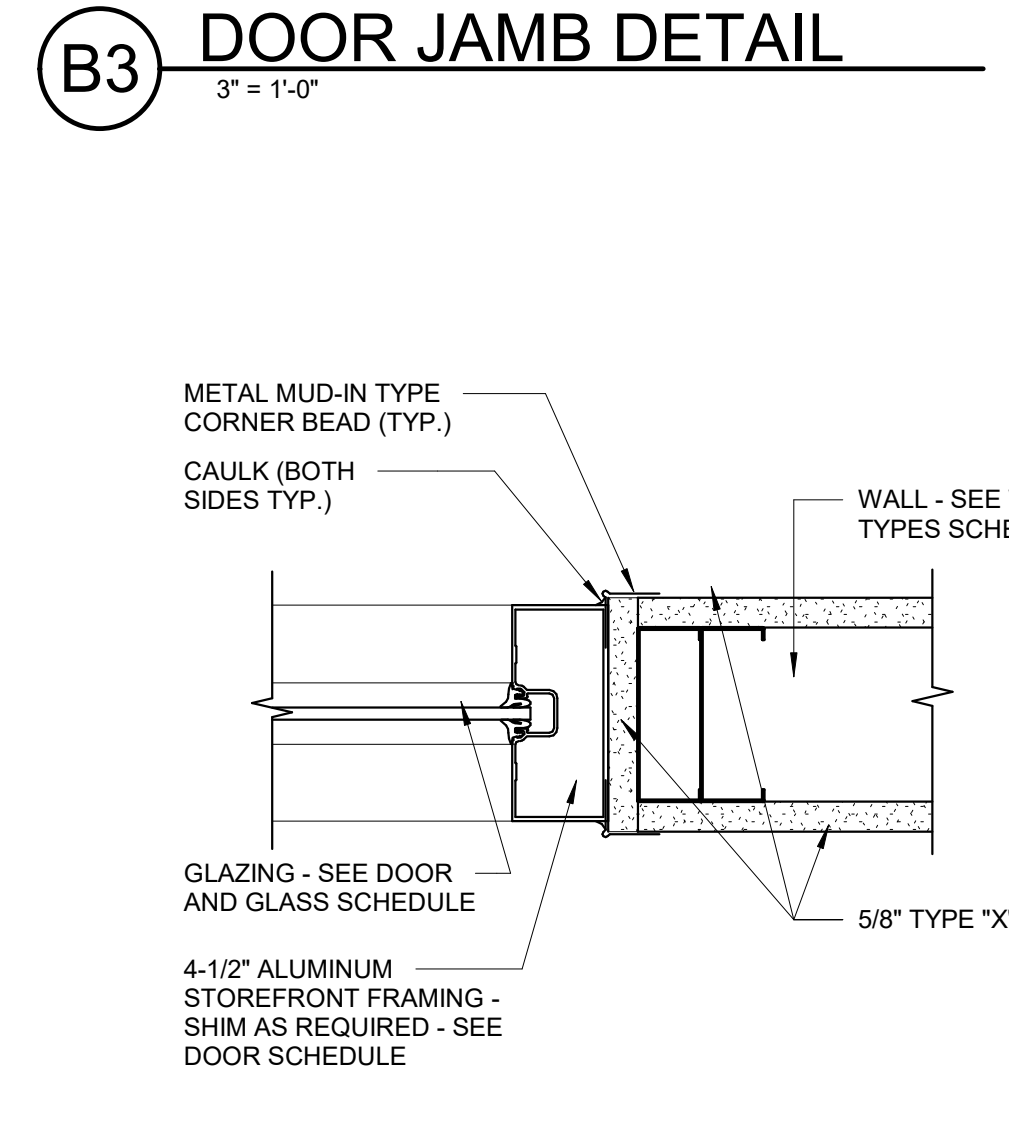
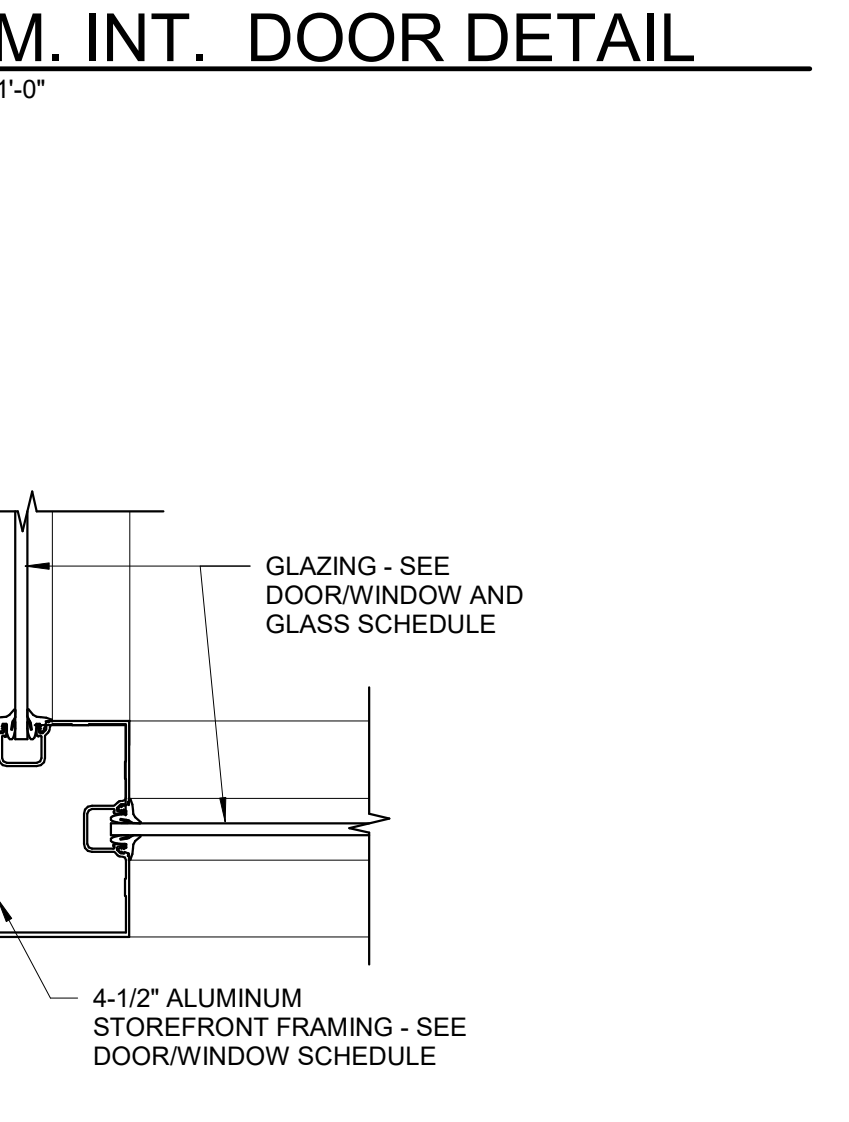
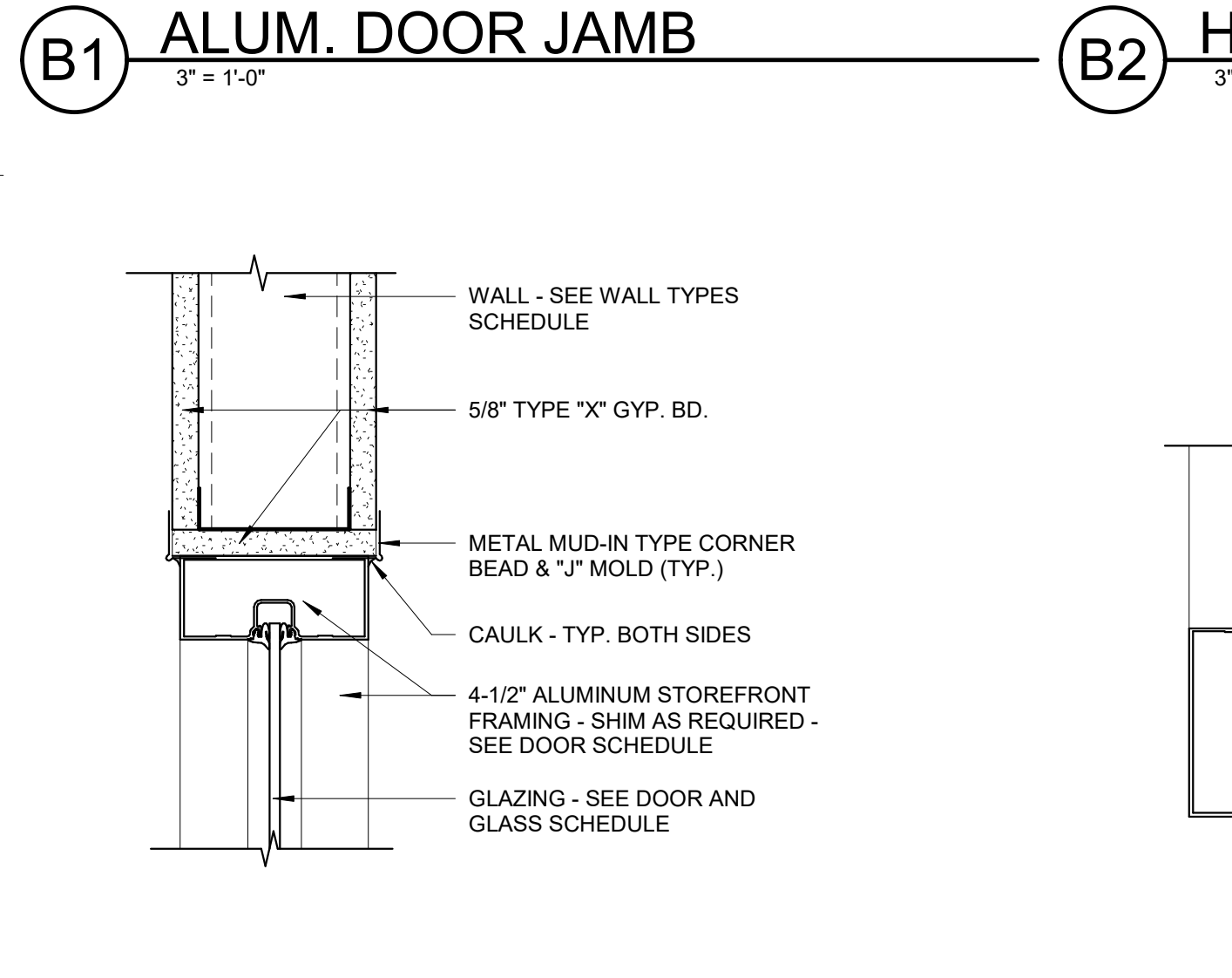
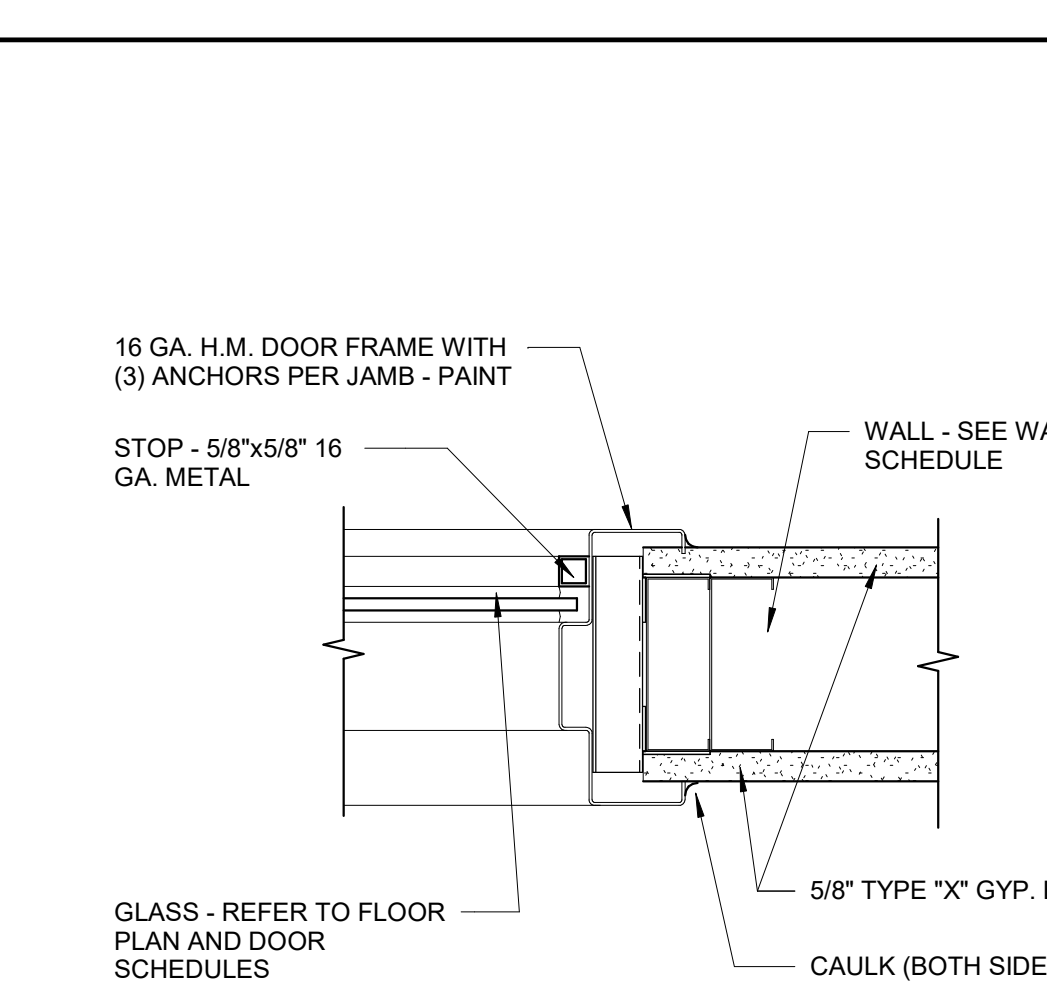
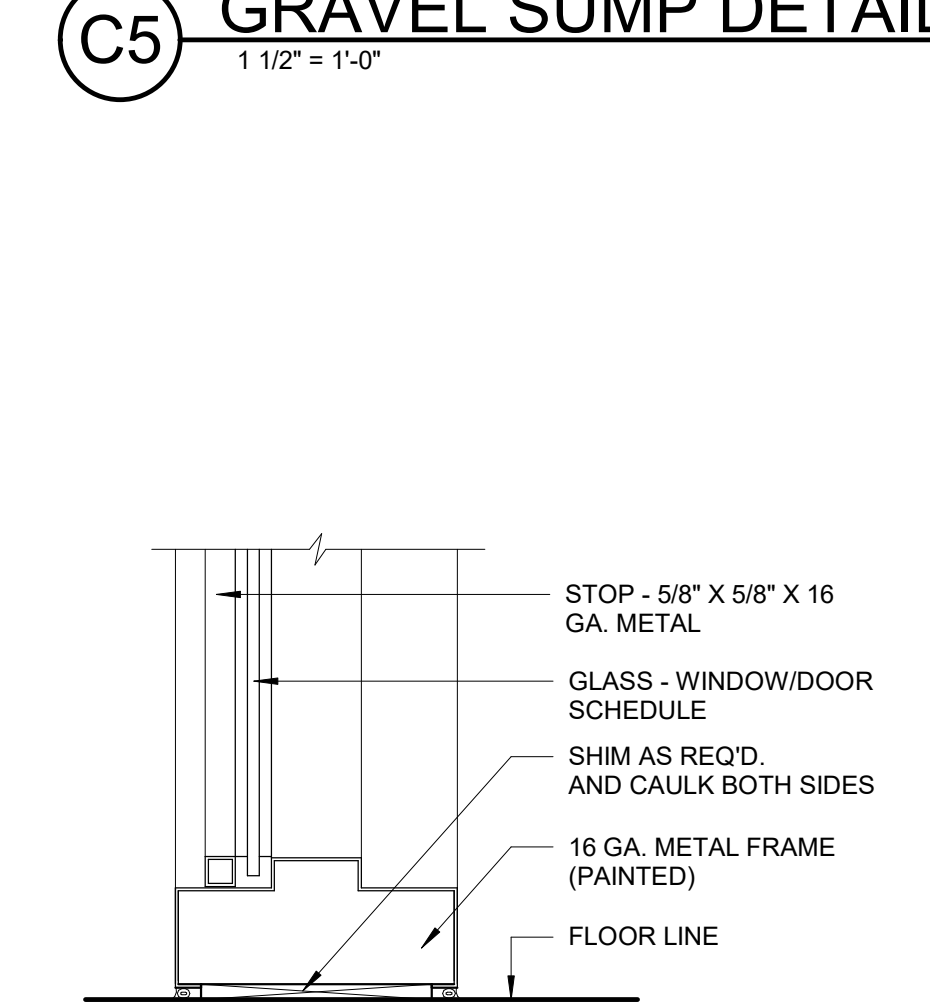
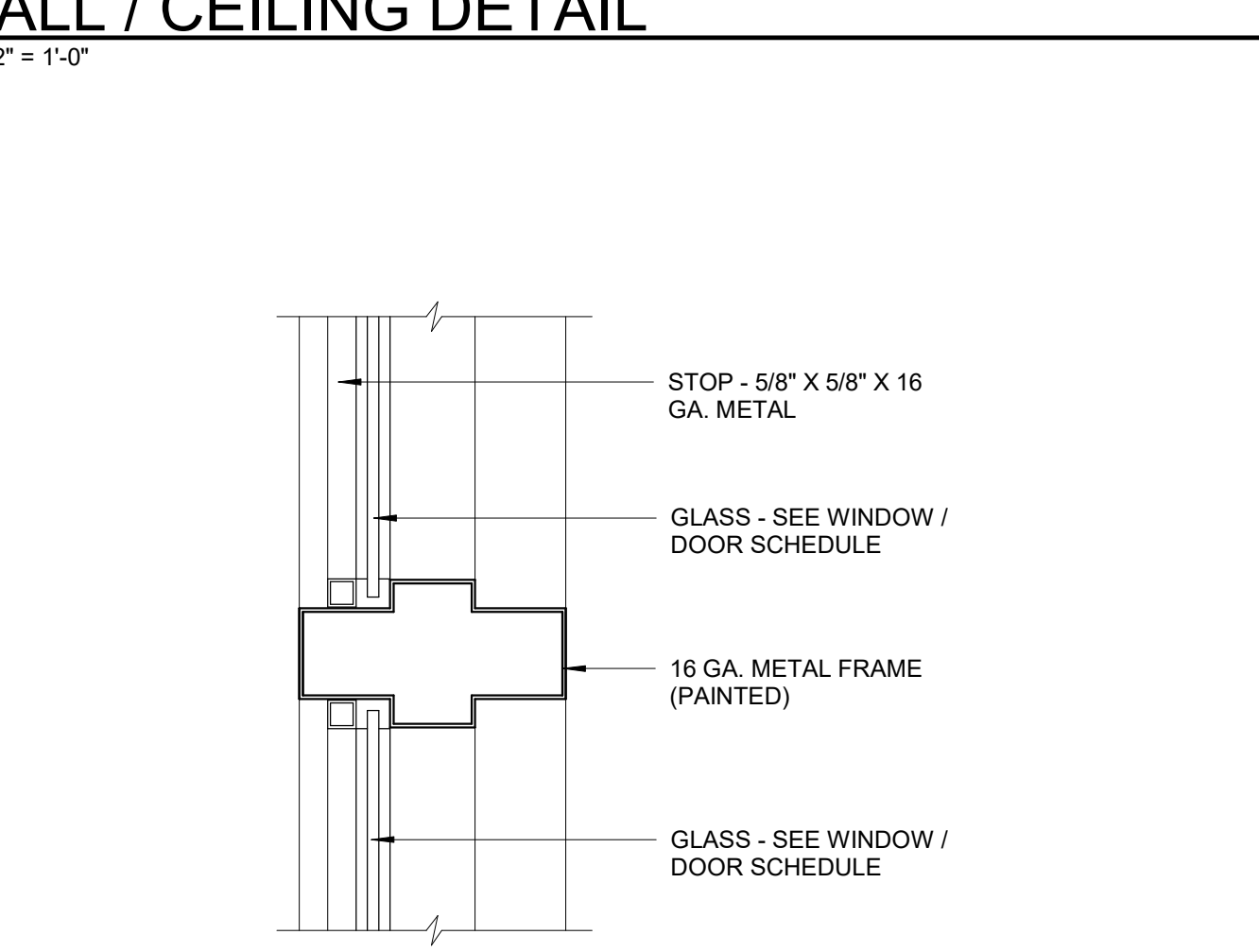
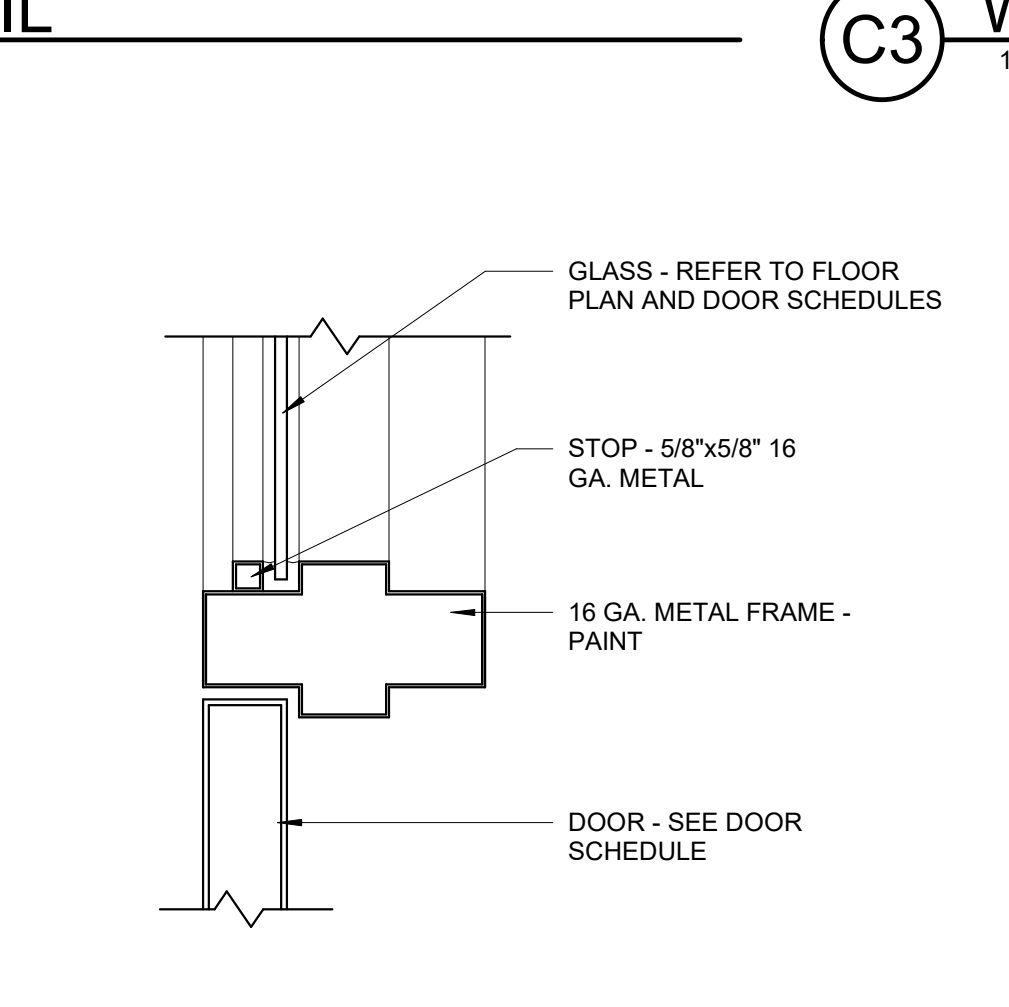
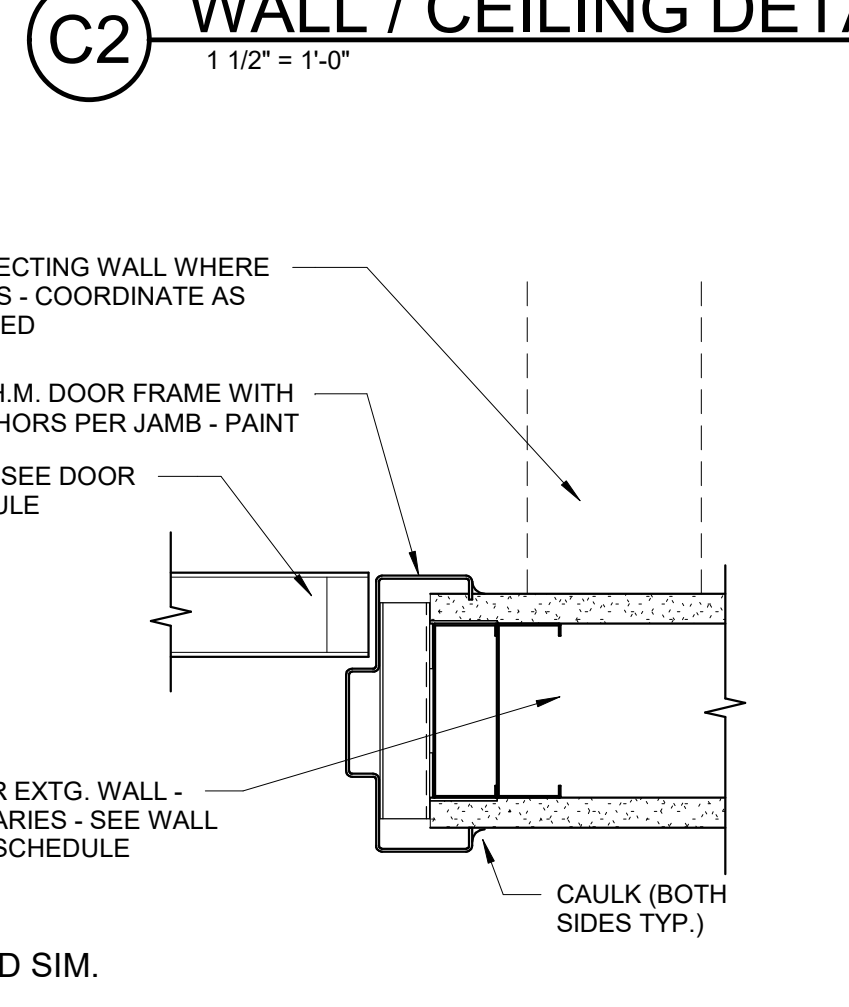
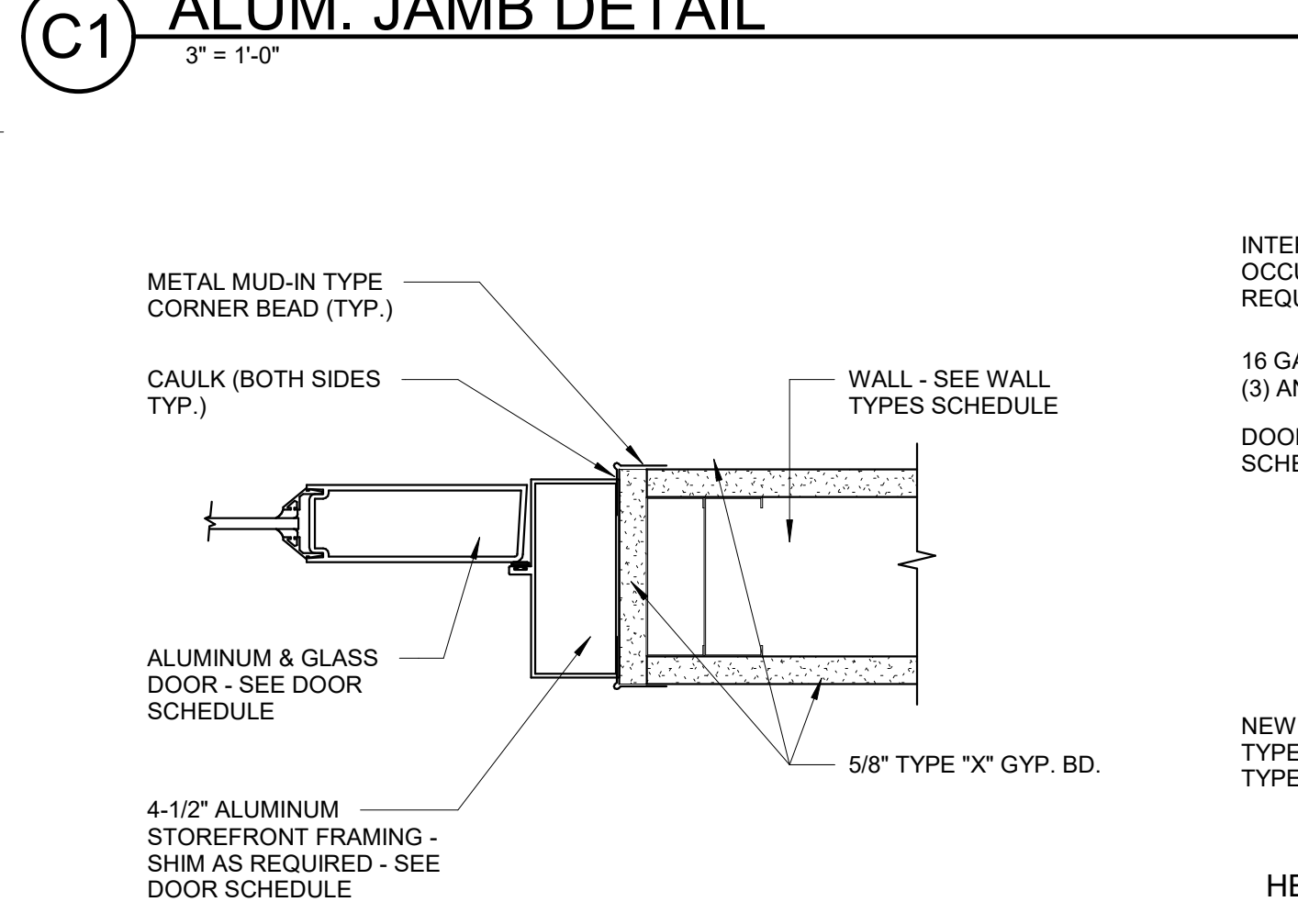
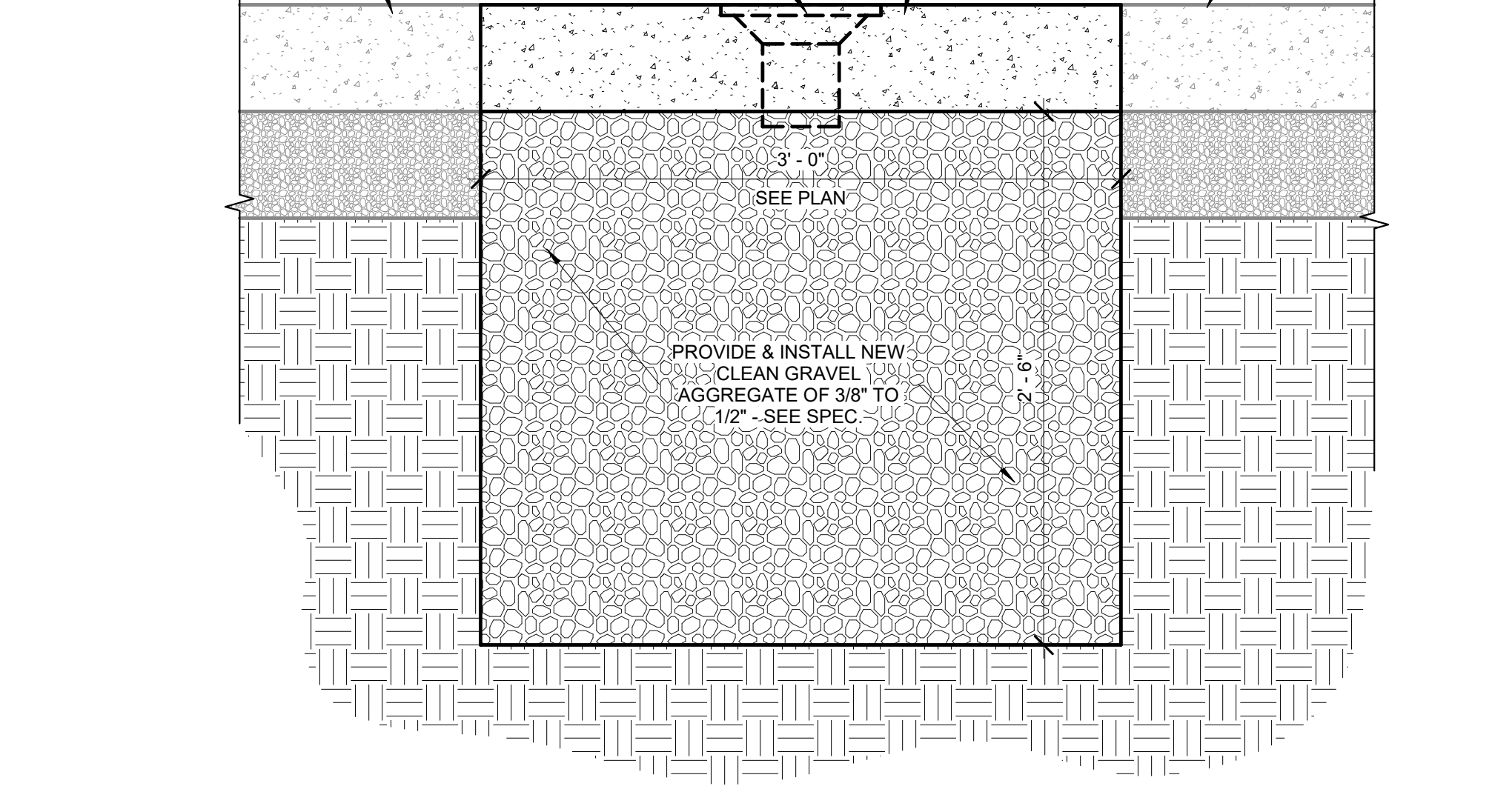
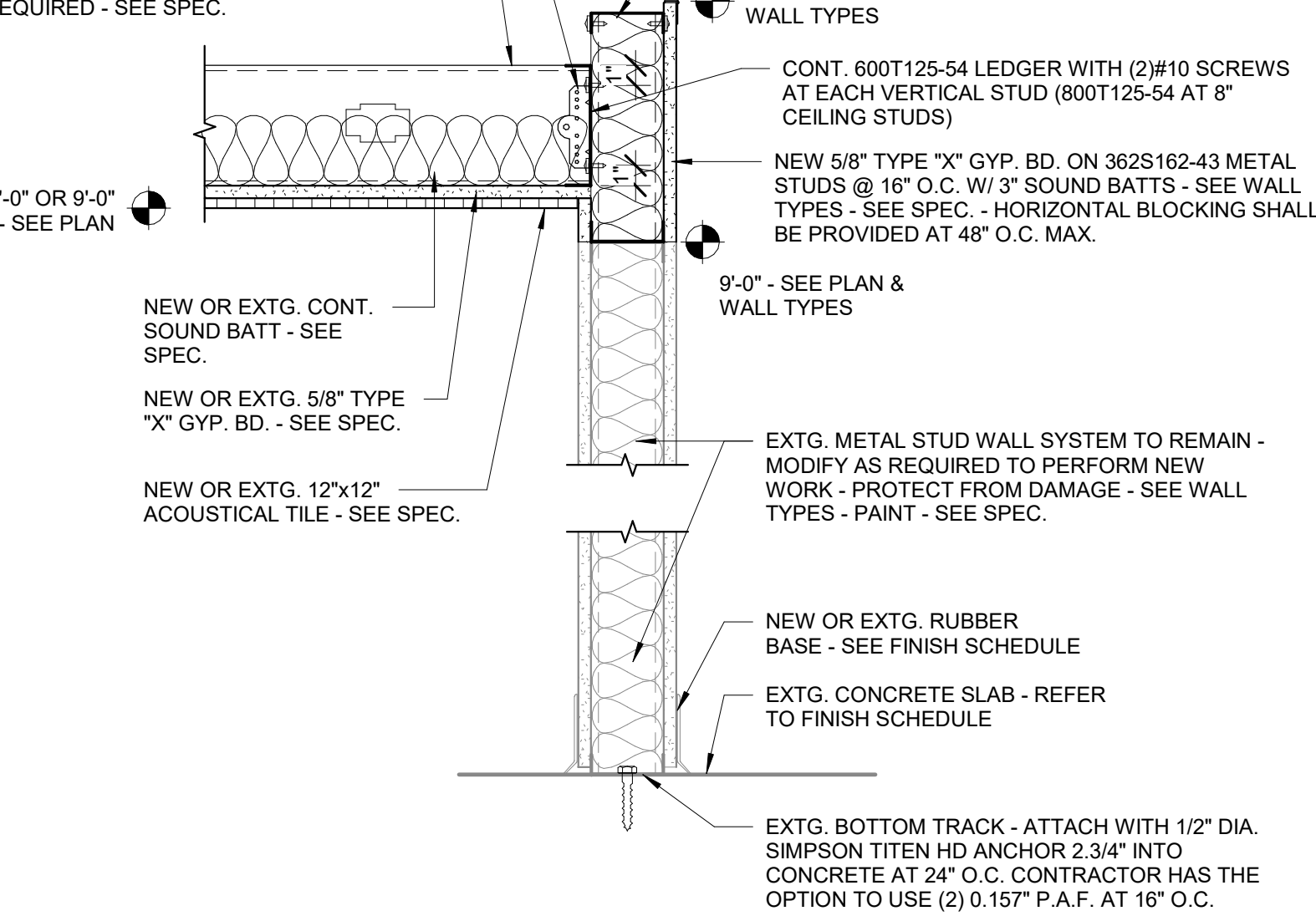
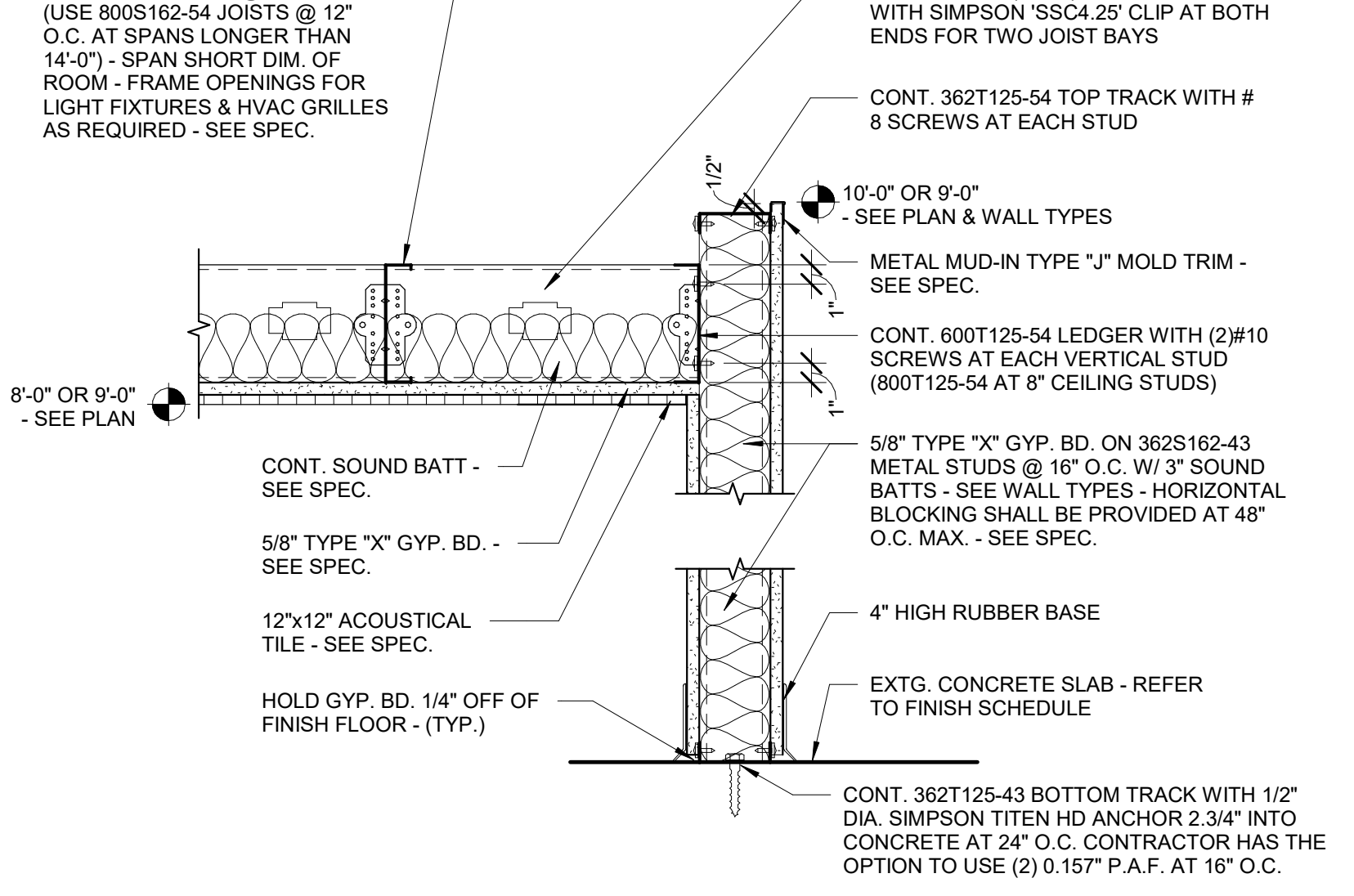
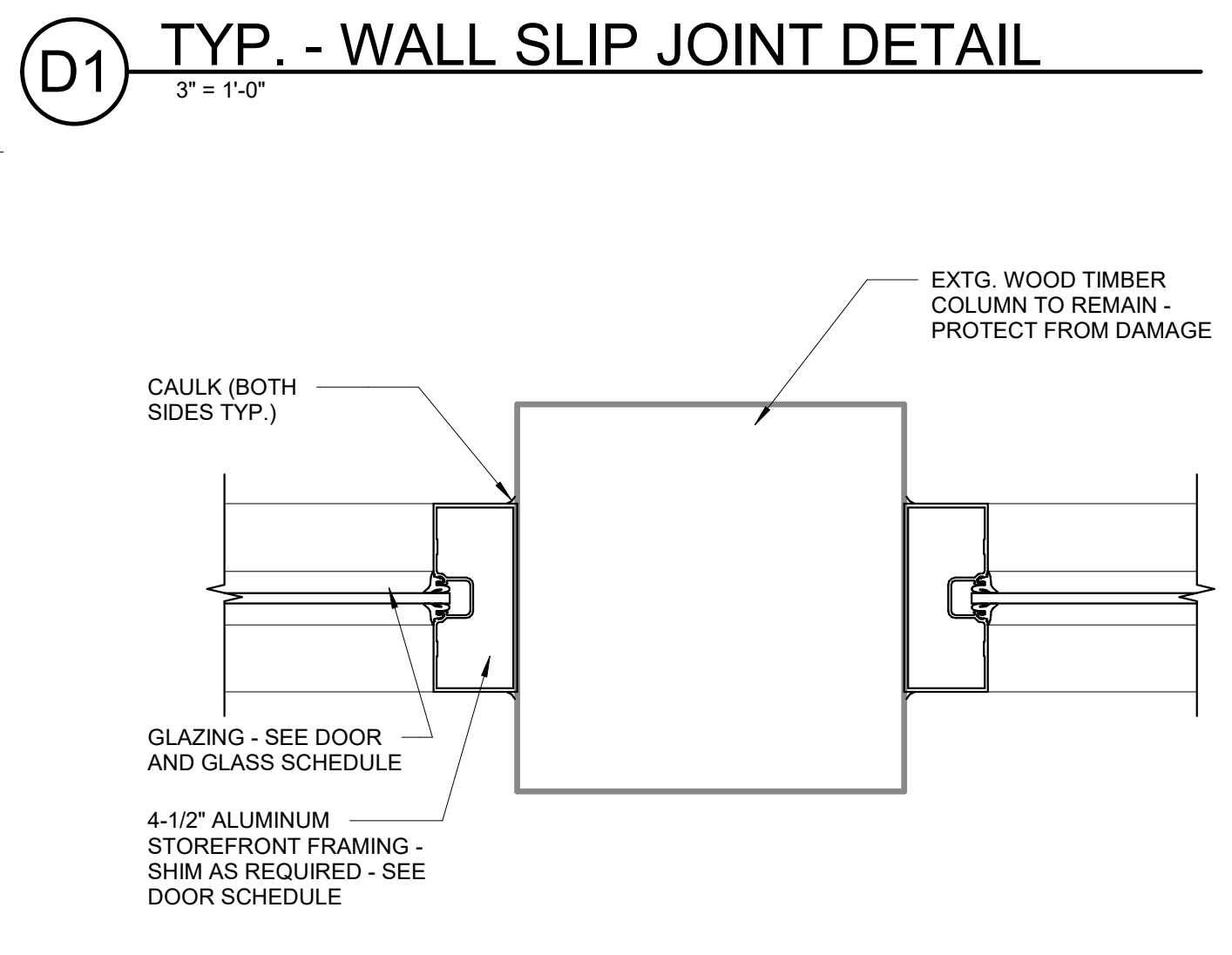
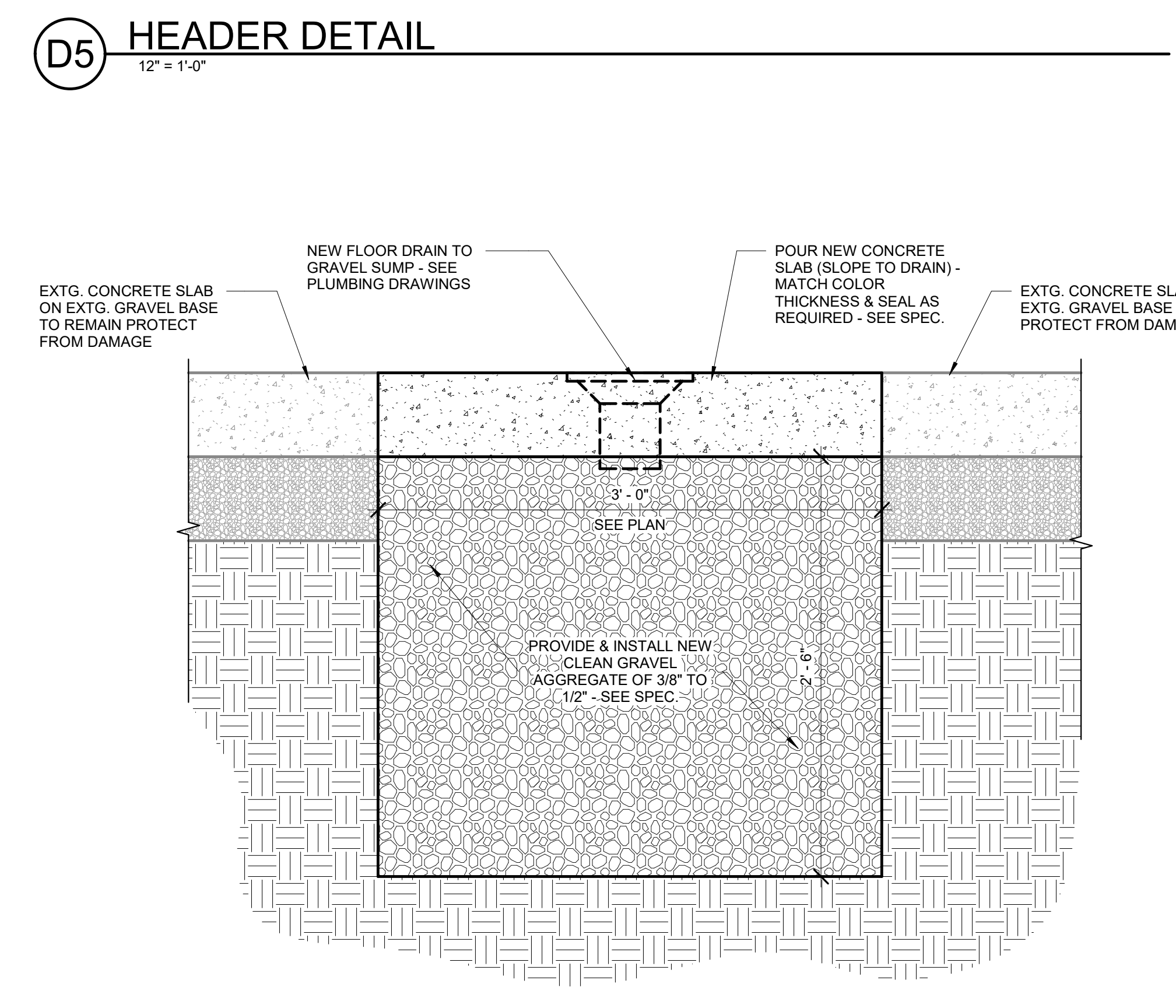
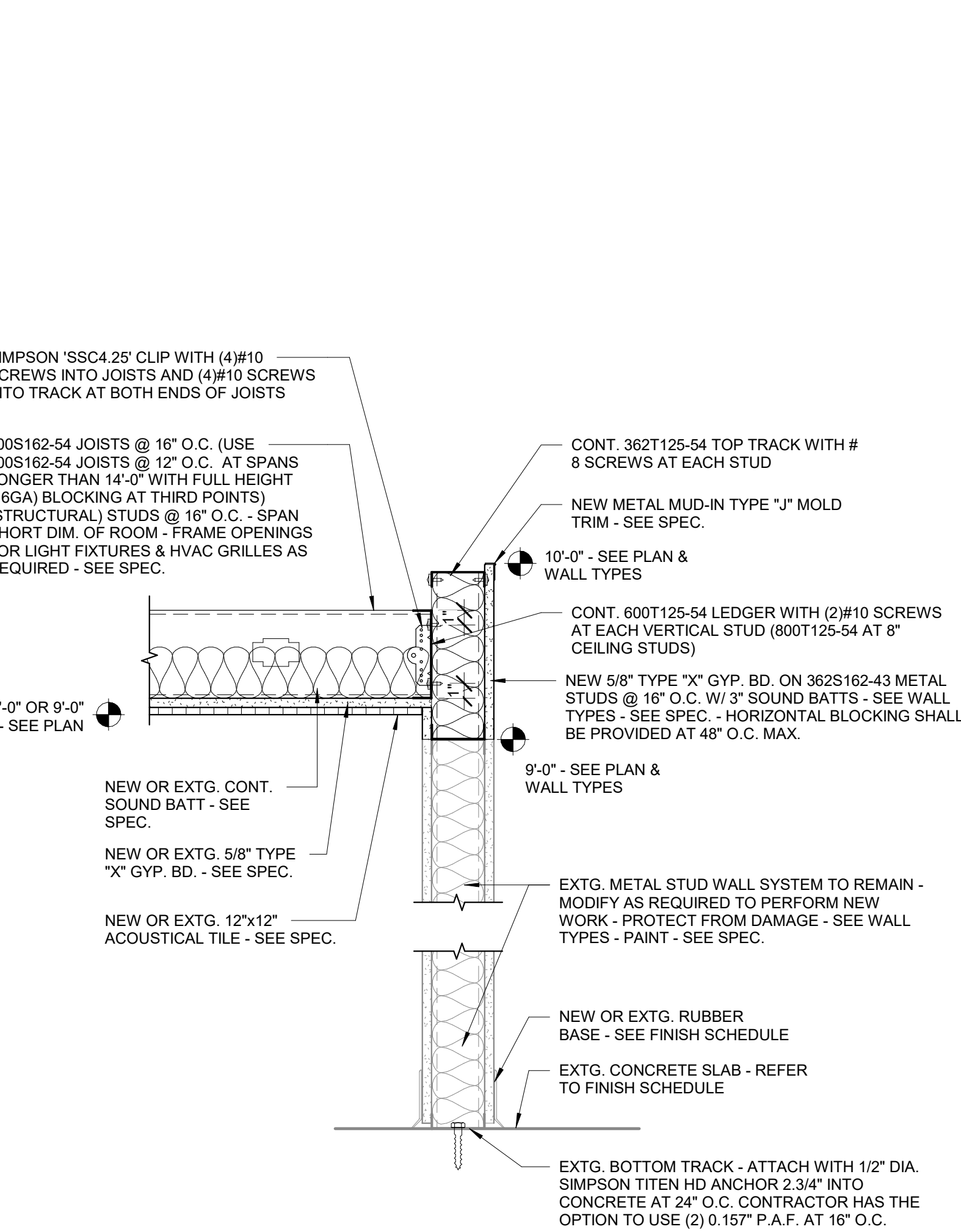
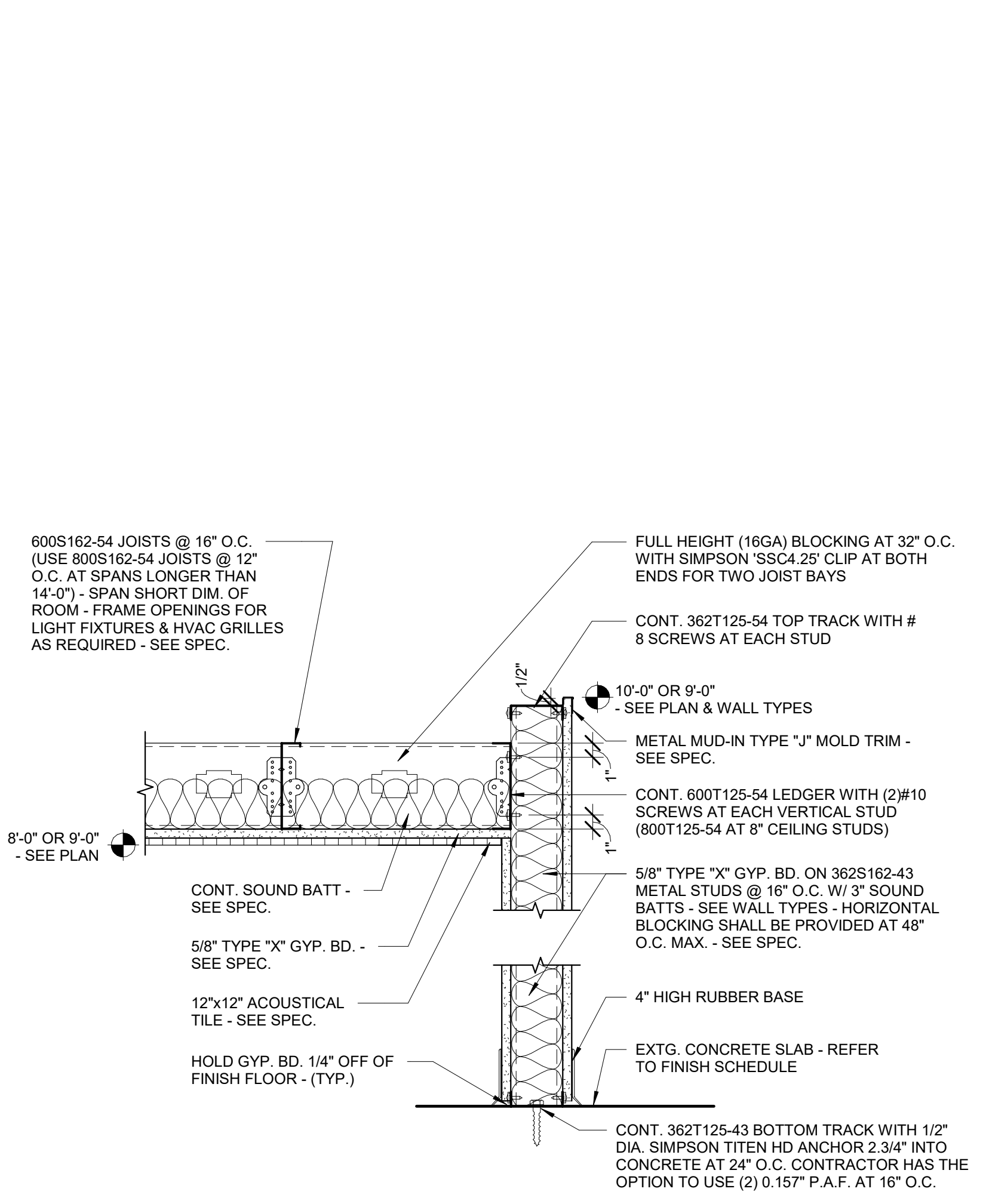
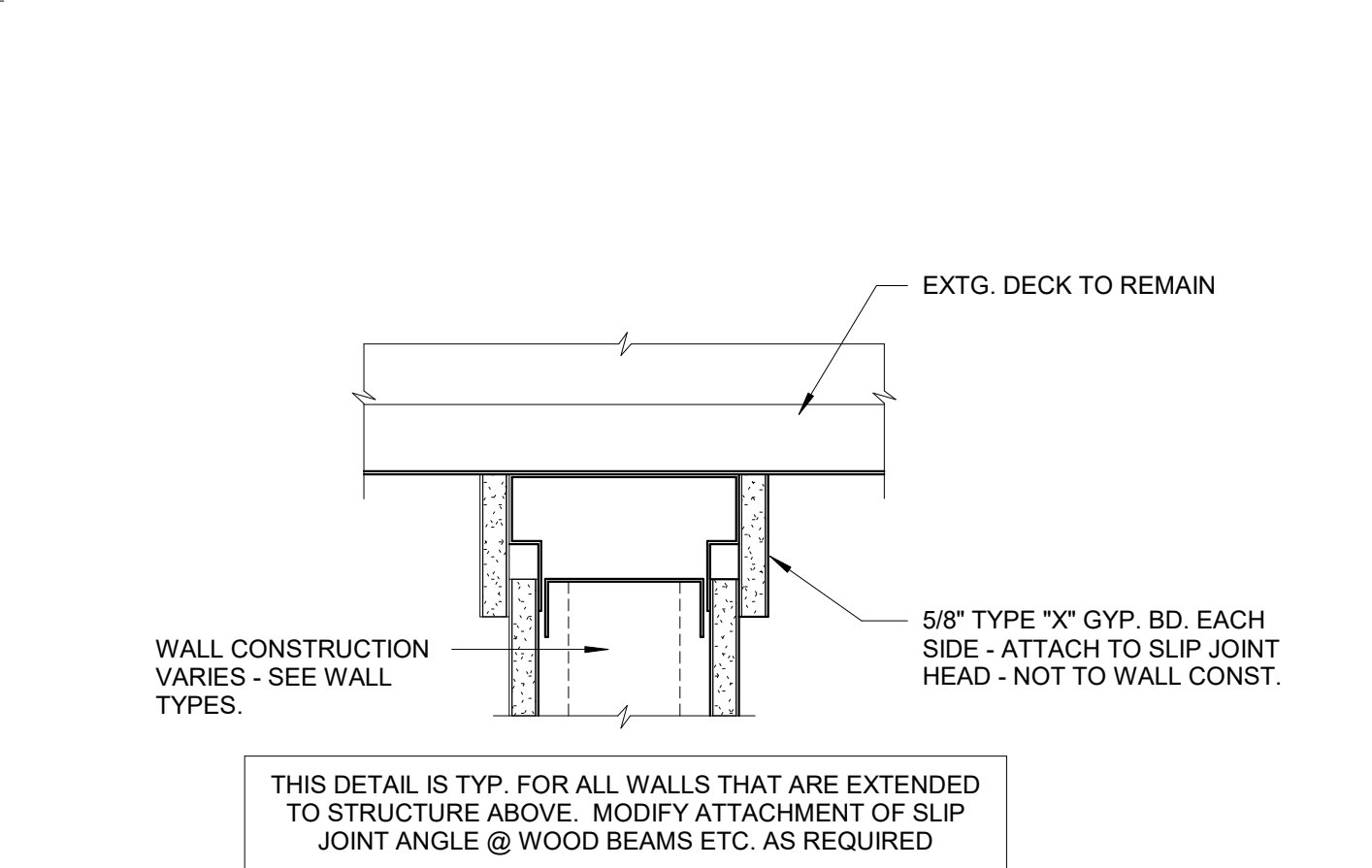
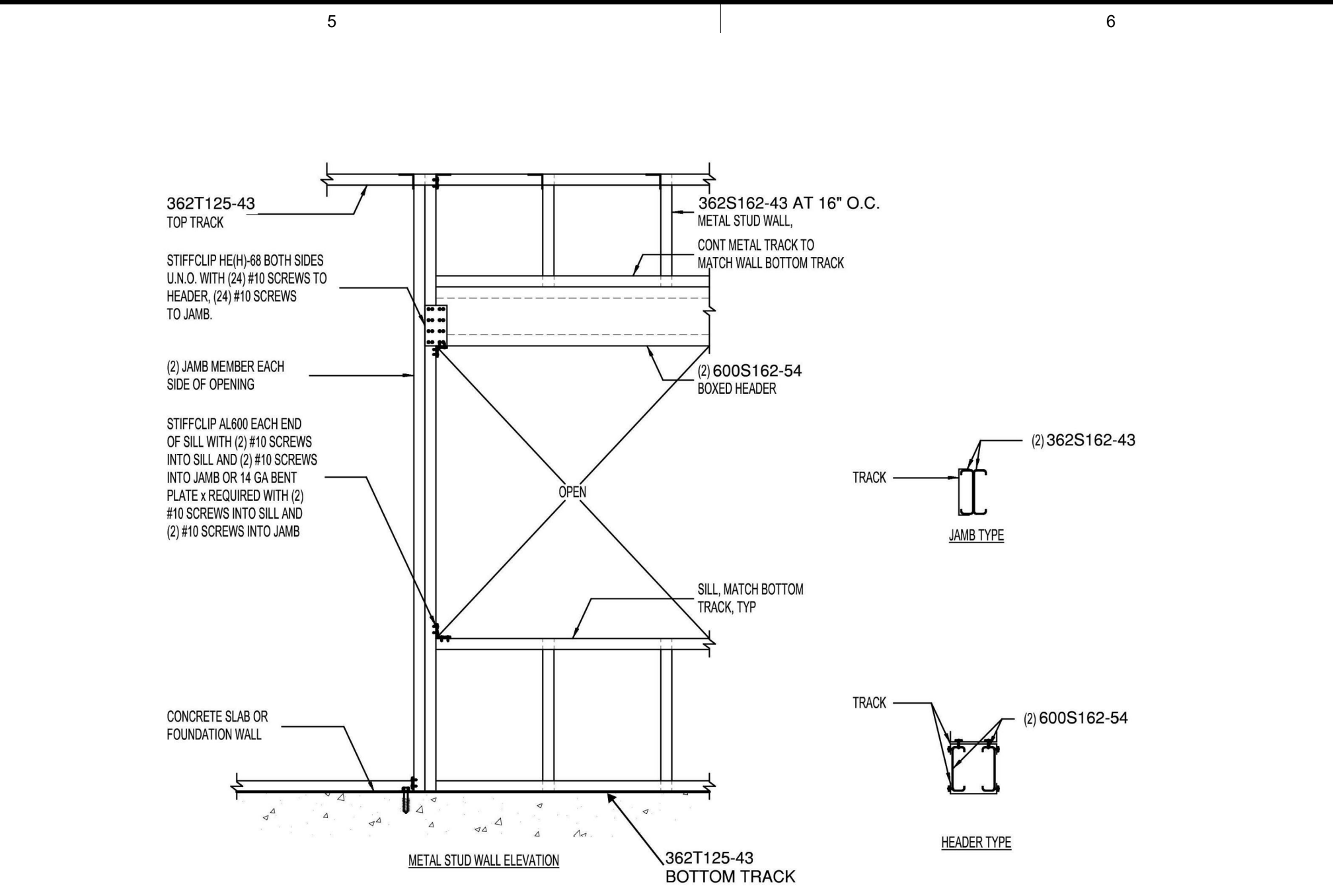
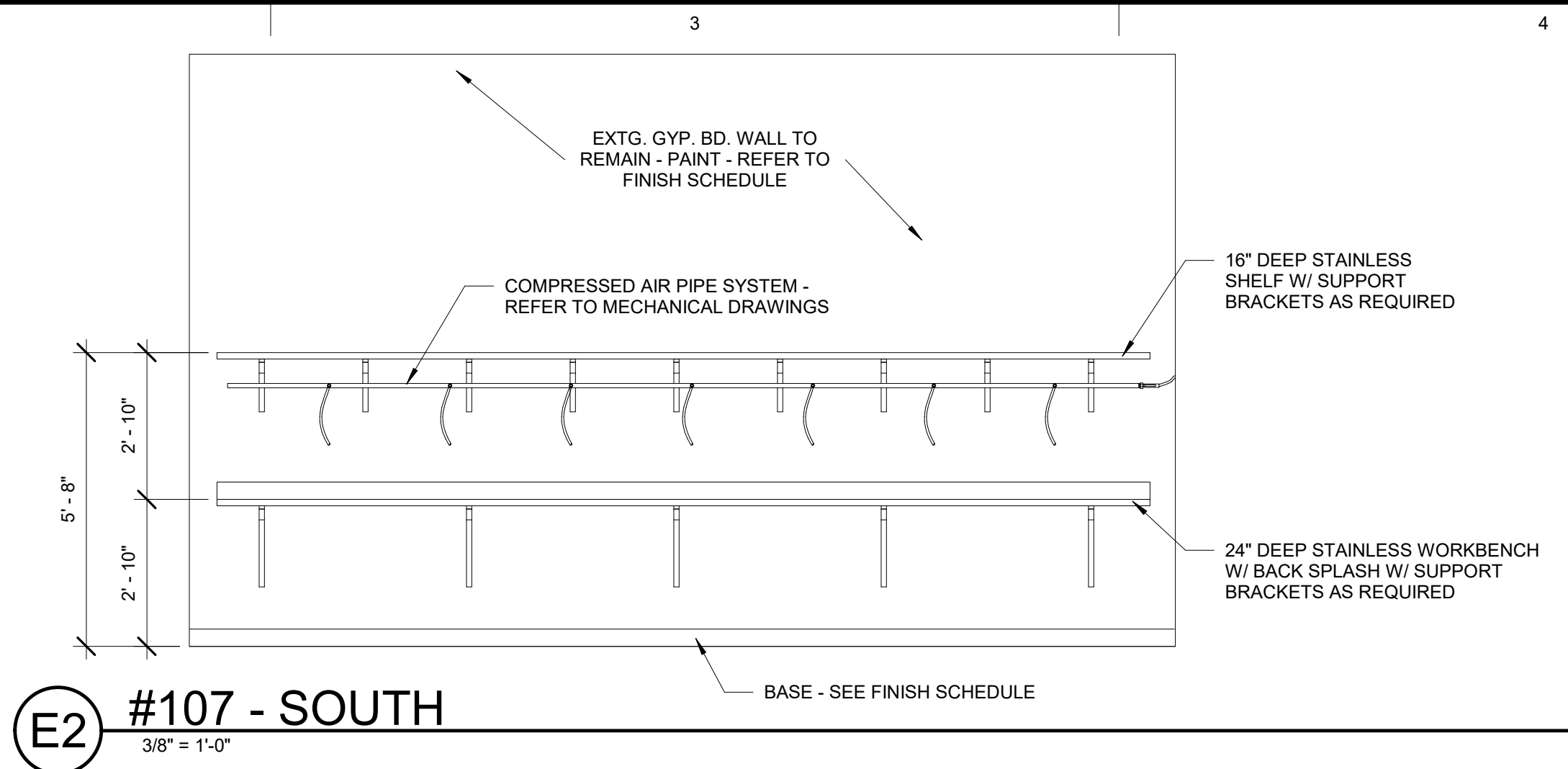
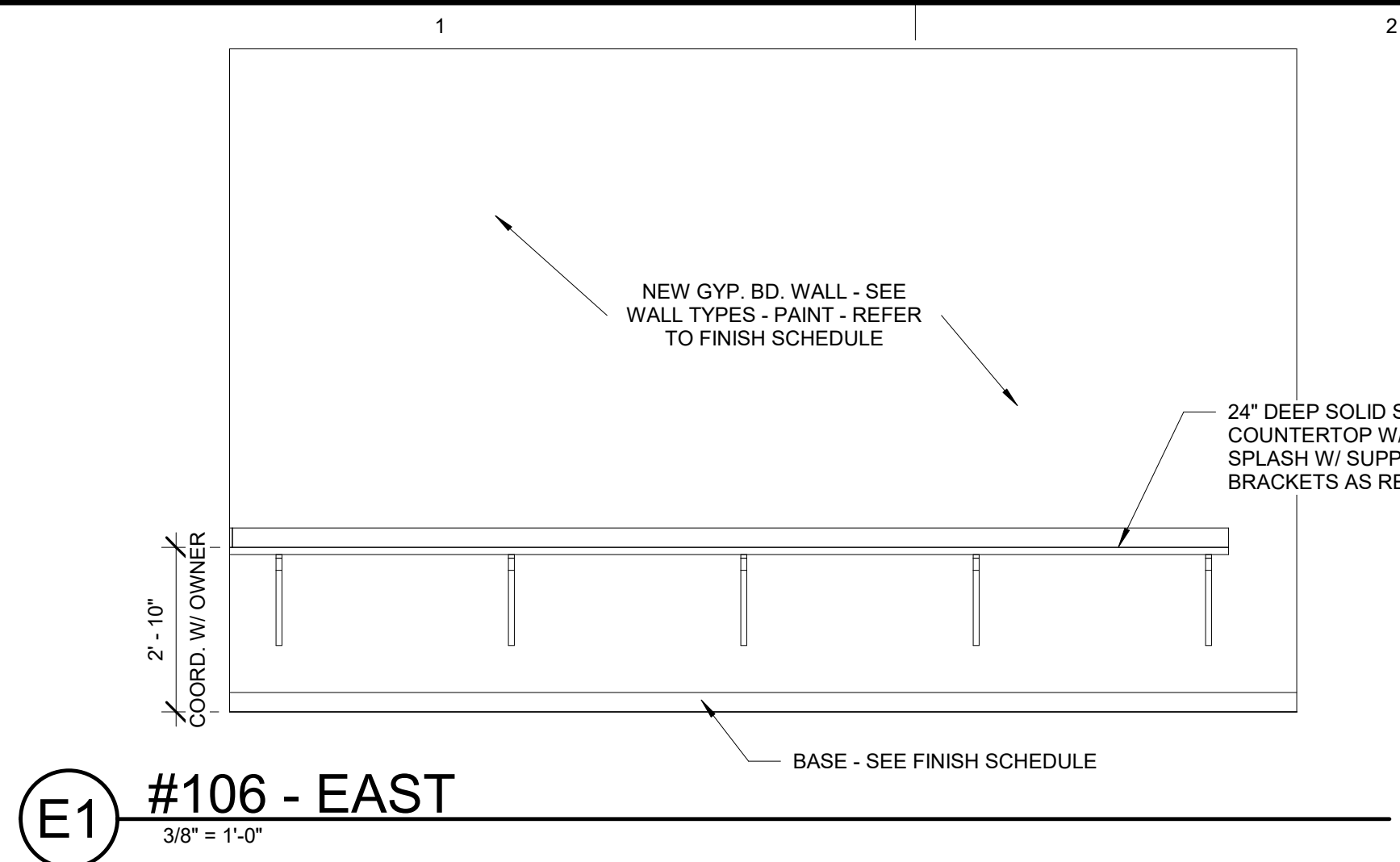
ISSUED:		
NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

OWNER PROJECT #:	20073220
SPE PROJECT #:	19-45
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	SPE
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REFLECTED CEILING PLAN

SHEET NUMBER
AE-102

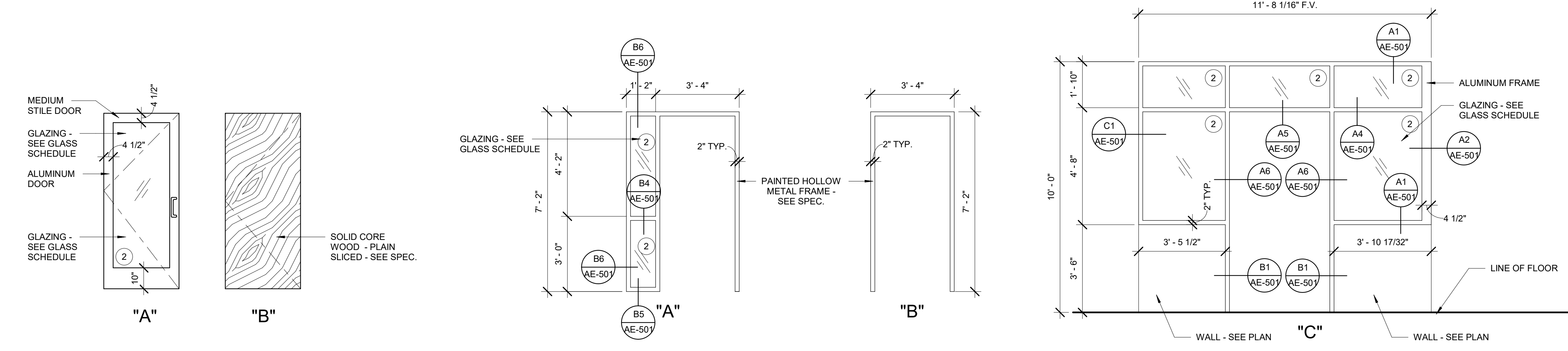
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ROOM FINISH SCHEDULE															
ROOM #	ROOM NAME	FLOOR FINISH	BASE	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	COMMENTS
101	PASSAGE	EXTG. CARPET PATCH AS REQUIRED	RUBBER	NEW / EXTG. GYP. BD.	PAINT	OPEN	NONE	NEW / EXTG. GYP. BD.	PAINT	OPEN	NONE	OPEN TO STRUCTURE	NONE		
102	OFFICE	EXTG. CARPET PATCH AS REQUIRED	RUBBER	NEW / EXTG. GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	*12"x12" AC TILE	NONE		*MODIFY EXTG. CEILING SYSTEM AS REQUIRED
103	OFFICE	EXTG. CARPET PATCH AS REQUIRED	RUBBER	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	12"x12" AC TILE	NONE		
104	CLASSROOM	EXTG. CARPET PATCH AS REQUIRED	RUBBER	NEW / EXTG. GYP. BD.	PAINT	NEW / EXTG. GYP. BD.	PAINT	NEW / EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	*12"x12" AC TILE	NONE		
105	CONFERENCE ROOM	EXTG. CARPET PATCH AS REQUIRED	RUBBER	NEW GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	*12"x12" AC TILE	NONE		*MODIFY EXTG. CEILING SYSTEM AS REQUIRED
106	OFFICE	EXTG. CARPET PATCH AS REQUIRED	RUBBER	EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	12"x12" AC TILE	NONE		
107	BREAK AREA	EXTG. CARPET PATCH AS REQUIRED	RUBBER	EXTG. GYP. BD.	NONE	NEW / EXTG. GYP. BD.	PAINT	EXTG. GYP. BD.	NONE	EXTG. GYP. BD.	NONE	OPEN TO STRUCTURE / EXTG. GYP. BD.	NONE / NONE		
108	PLASTIC INJECTION MOLDING AREA	EXTG. CONCRETE	RUBBER	NEW / EXTG. GYP. BD.	PAINT	OPEN	NONE	EXTG. GYP. BD.	NONE	EXTG. GYP. BD.	NONE	OPEN TO STRUCTURE	NONE		
109	SANDING ROOM	EXTG. CONCRETE	RUBBER	EXTG. GYP. BD.	PAINT	NEW GYP. BD. / GLASS	PAINT / NONE	NEW GYP. BD. / GLASS	PAINT / NONE	NEW GYP. BD.	PAINT	OPEN TO STRUCTURE	NONE		
110	VACUUM PUMP & COMPRESSOR ROOM	EXTG. CONCRETE	RUBBER	EXTG. GYP. BD.	PAINT	NEW GYP. BD.	PAINT	NEW GYP. BD.	PAINT	EXTG. GYP. BD.	PAINT	OPEN TO STRUCTURE	NONE		

DOOR SCHEDULE																
DOOR #	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR			FIRE RATING	HARDWARE	FRAME			FRAME (L) JAMB DETAIL	FRAME (R) JAMB DETAIL	FRAME HEAD DETAIL	THRESHOLD DETAIL	COMMENTS
				THICKNESS	MATERIAL	FINISH			TYPE	MATERIAL	FINISH					
101	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	3.0	A	HOLLOW METAL	PAINT	B3/AE-501	B2/AE-501	B2/AE-501 SIM.	NONE	
102	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	3.0	A	HOLLOW METAL	PAINT	B3/AE-501	B2/AE-501	B2/AE-501 SIM.	NONE	
103	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	4.0	A	HOLLOW METAL	PAINT	B2/AE-501	B3/AE-501	B2/AE-501 SIM.	NONE	
104	3'-0"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	3.0	A	HOLLOW METAL	PAINT	B2/AE-501	B3/AE-501	B2/AE-501 SIM.	NONE	
105	4'-0"	8'-0"	B	1 3/4"	ALUMINUM	ANODIZED	NONE	1.0	C	ALUMINUM	ANODIZED	SEE FRAME TYPE	SEE FRAME TYPE	SEE FRAME TYPE	NONE	
106	3'-8"	7'-0"	A	1 3/4"	S.C. WOOD	TRANSPARENT	NONE	2.0	B	HOLLOW METAL	PAINT	B2/AE-501	B2/AE-501	B2/AE-501 SIM.	NONE	

PROVIDE NEW SIGNAGE AT NEW DOORS MATCHING OWNER'S EXISTING SIGNAGE STANDARD. PROVIDE A SUBMITTAL FOR ARCHITECTURAL AND OWNER REVIEW. EXACT WORDING WILL BE PROVIDED DURING THE SUBMITTAL PHASE.

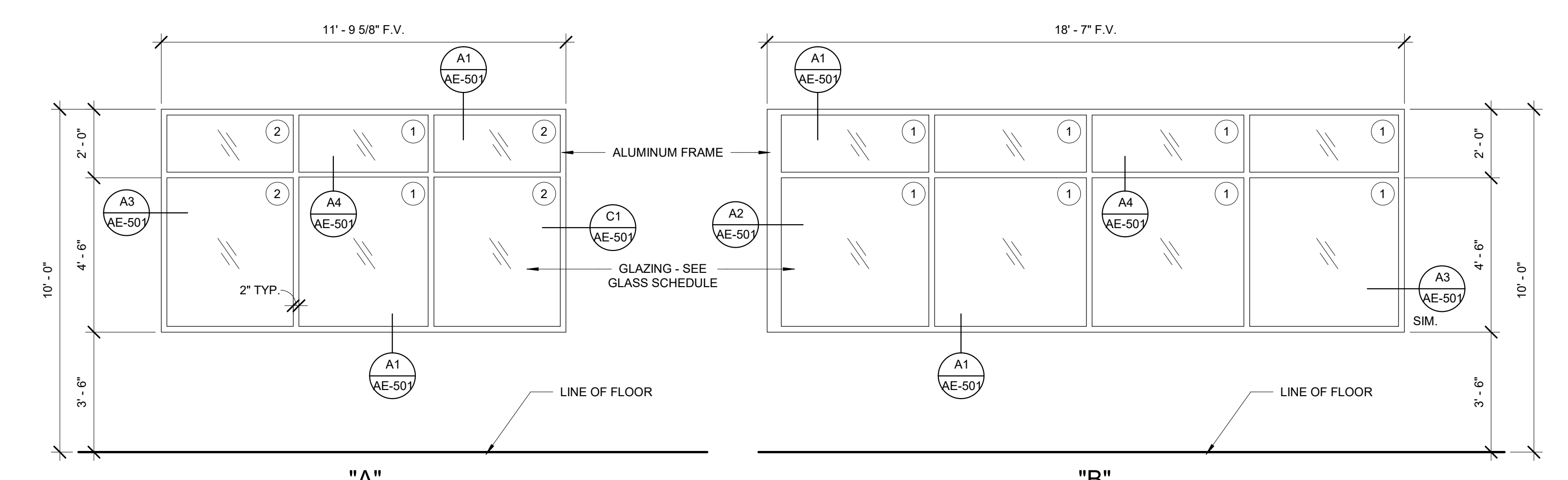


C1 DOOR TYPES
3/8" = 1'-0"

C2 DOOR FRAME TYPE
3/8" = 1'-0"

#	GLASS SCHEDULE
TYPE 1:	1/4" CLEAR FLOAT GLASS
TYPE 2:	1/4" CLEAR FLOAT GLASS TEMPERED

WINDOW SCHEDULE													
MARK #	WINDOW FRAME										GLAZING	OPERABLE	REMARKS
	SIZE (R.O.)		TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB(R) DETAIL	JAMB(L) DETAIL	SILL DETAIL				
	WIDTH	HGT											
101	SEE WINDOW TYPES	4'-1/2"	A	ALUMINUM	ANODIZED	SEE WINDOW TYPES	SEE WINDOW TYPES	SEE WINDOW TYPES	SEE TYPES	NO			
102	SEE WINDOW TYPES	4'-1/2"	A	ALUMINUM	ANODIZED	SEE WINDOW TYPES	SEE WINDOW TYPES	SEE WINDOW TYPES	SEE TYPES	NO			



A1 WINDOW TYPE
3/8" = 1'-0"

ARCHITECTS INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - F.801.298.2192
 info@spe-architect.com
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
 FREERPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

ISSUED:
 NO. DATE DESCRIPTION
 01 12/19/19 CONSTRUCTION BID SET

OWNER PROJECT #: 20073200
 SPE PROJECT #: 19-45
 DRAWN BY: JBE
 CHECKED BY: SPE
 DESIGNED BY: SPE
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SHEET TITLE:
SCHEDULES

SHEET NUMBER:
AE-601

MECHANICAL LEGEND

Table with columns: SYMBOl, ABR., DESCRIPTION, SYMBOl, ABR., DESCRIPTION, SYMBOl, ABR., DESCRIPTION, SYMBOl, ABR., DESCRIPTION. Rows include: GENERAL TERMINOLOGY, AIR SIDE, WET SIDE, WET SIDE. Symbols include triangles, circles, rectangles, and various mechanical components.

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.

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.

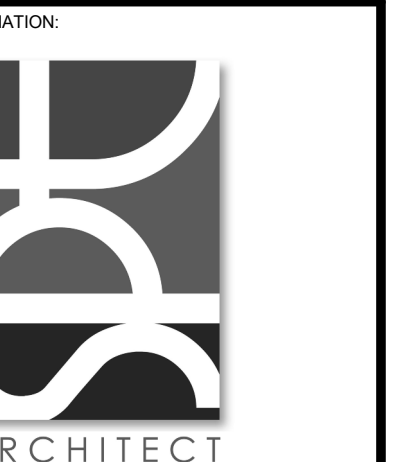
G-14 - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

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.

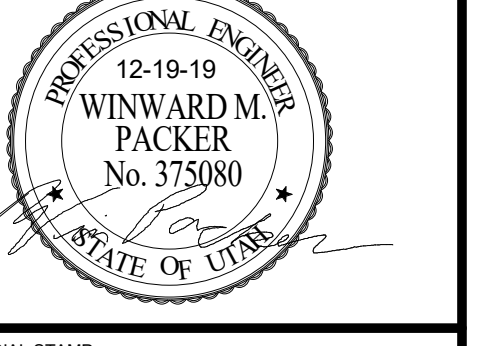
G-16 - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2018 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

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.



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C. 108 West Center Street Bountiful, Utah 84010 1.801.298.1368 - F.801.298.2192 info@spe-architect.com www.spe-architect.com



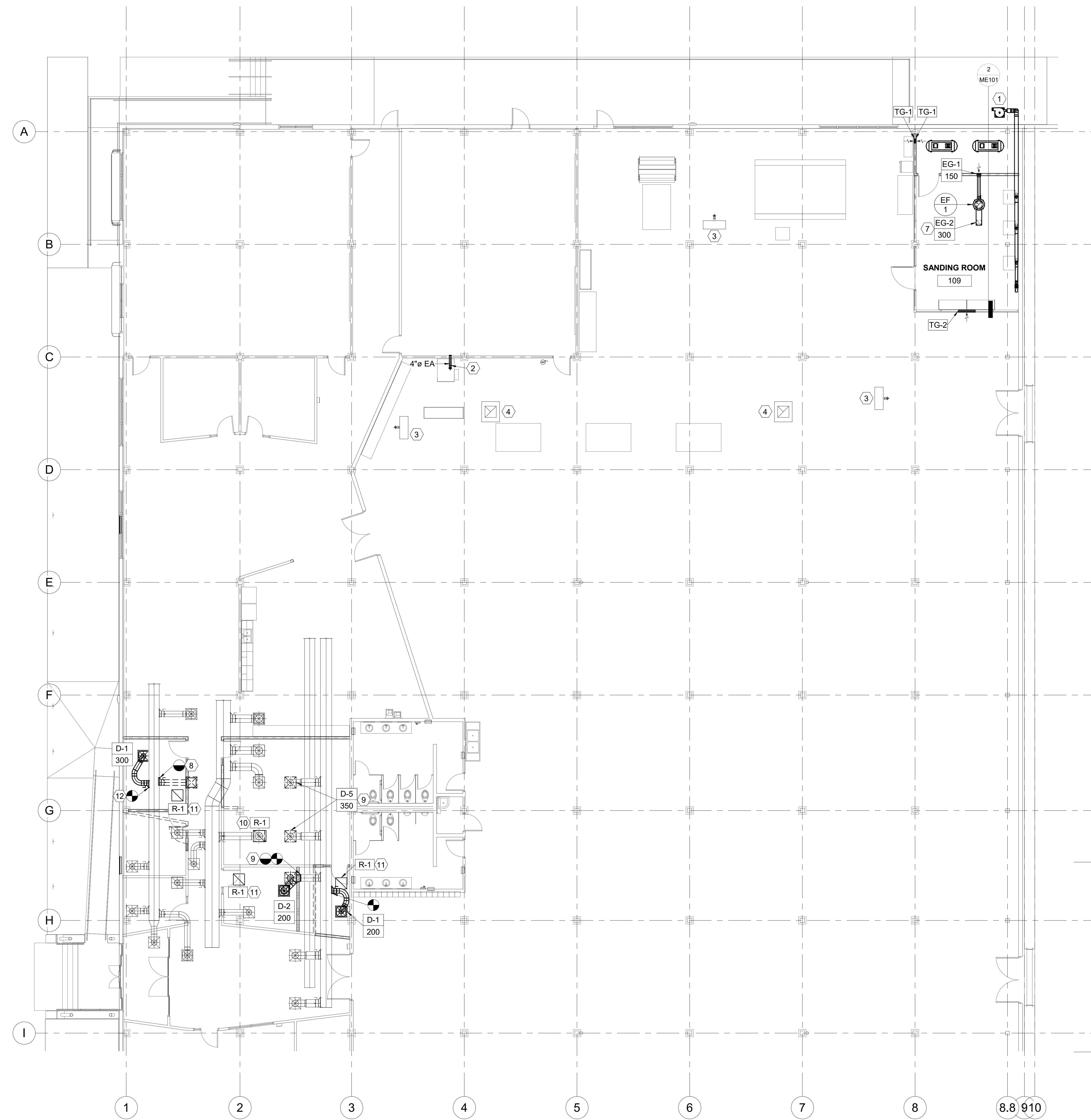
2019 DAVIS TECHNICAL COLLEGE FREEPORT CENTER BUILDING D5 COMPOSITES REMODEL

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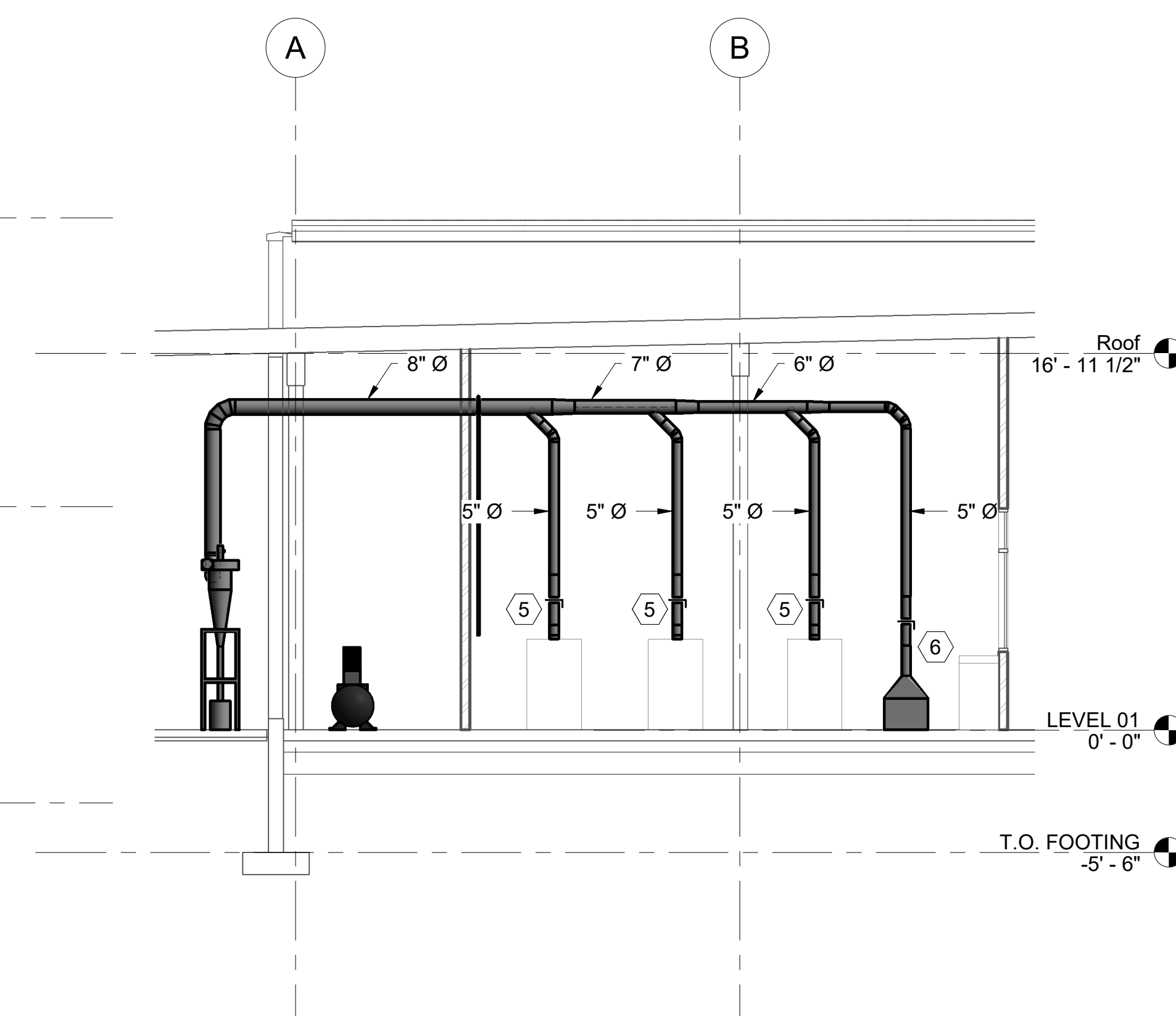
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MECHANICAL GENERAL NOTES & LEGEND

MG001



1 MECHANICAL PLAN
1/8" = 1'-0"



2 DUST COLLECTION SECTION VIEW
3/16" = 1'-0"

SHEET NOTES

- 1 DUST COLLECTOR SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. ONEDIA XXK05 DUST COLLECTOR.
- 2 PROVIDE EXHAUST STACK FROM OVEN UP TO ROOF.
- 3 EXISTING UNIT HEATER TO REMAIN AND BE REUSED.
- 4 EXISTING EVAPORATIVE COOLER TO REMAIN AND BE REUSED.
- 5 PROVIDE DUST COLLECTION DUCTWORK DOWN TO SANDERS.
- 6 PROVIDE DUST COLLECTION BOX FOR GENERAL CLEANUP.
- 7 PROVIDE EXHAUST GRILLE MOUNTED ON UNDERSIDE OF DUCT.
- 8 ADD ALT #1: REMOVE EXISTING SUPPLY DIFFUSER AND BRANCH DUCT BACK TO MAIN AND CAP.
- 9 ADD ALT #1: REMOVE EXISTING DUCT MOUNTED SUPPLY DIFFUSER. PROVIDE NEW CEILING MOUNTED SUPPLY DIFFUSER. EXTEND EXISTING DUCTWORK AND PROVIDE TRANSITIONS AS REQUIRED.
- 10 ADD ALT #1: REMOVE EXISTING DUCT MOUNTED RETURN GRILLE. PROVIDE NEW CEILING MOUNTED RETURN GRILLE. EXTEND EXISTING DUCTWORK AND PROVIDE TRANSITIONS AS REQUIRED.
- 11 ADD ALT #1: PROVIDE RETURN GRILLE WITH SOUND BOOT.
- 12 ADD ALT #1: PROVIDE SUPPLY DIFFUSER AND BRANCH DUCTWORK. BALANCE TO LISTED CFM.

ARCHITECTS INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
t:801.298.1368 - f:801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:

**2019 DAVIS TECHNICAL COLLEGE
FREERPORT CENTER BUILDING D5
COMPOSITES REMODEL**

FREERPORT CENTER
CLEARFIELD, UTAH

REVISIONS:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
1	12-19-19	CONSTRUCTION BID SET

OWNER PROJECT #: 20073220
SPE PROJECT #: 19-47
DRAWN BY: DJB
CHECKED BY: WMP
DESIGNED BY: DJB
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SHEET TITLE:

MECHANICAL FLOORPLAN

SHEET NUMBER:

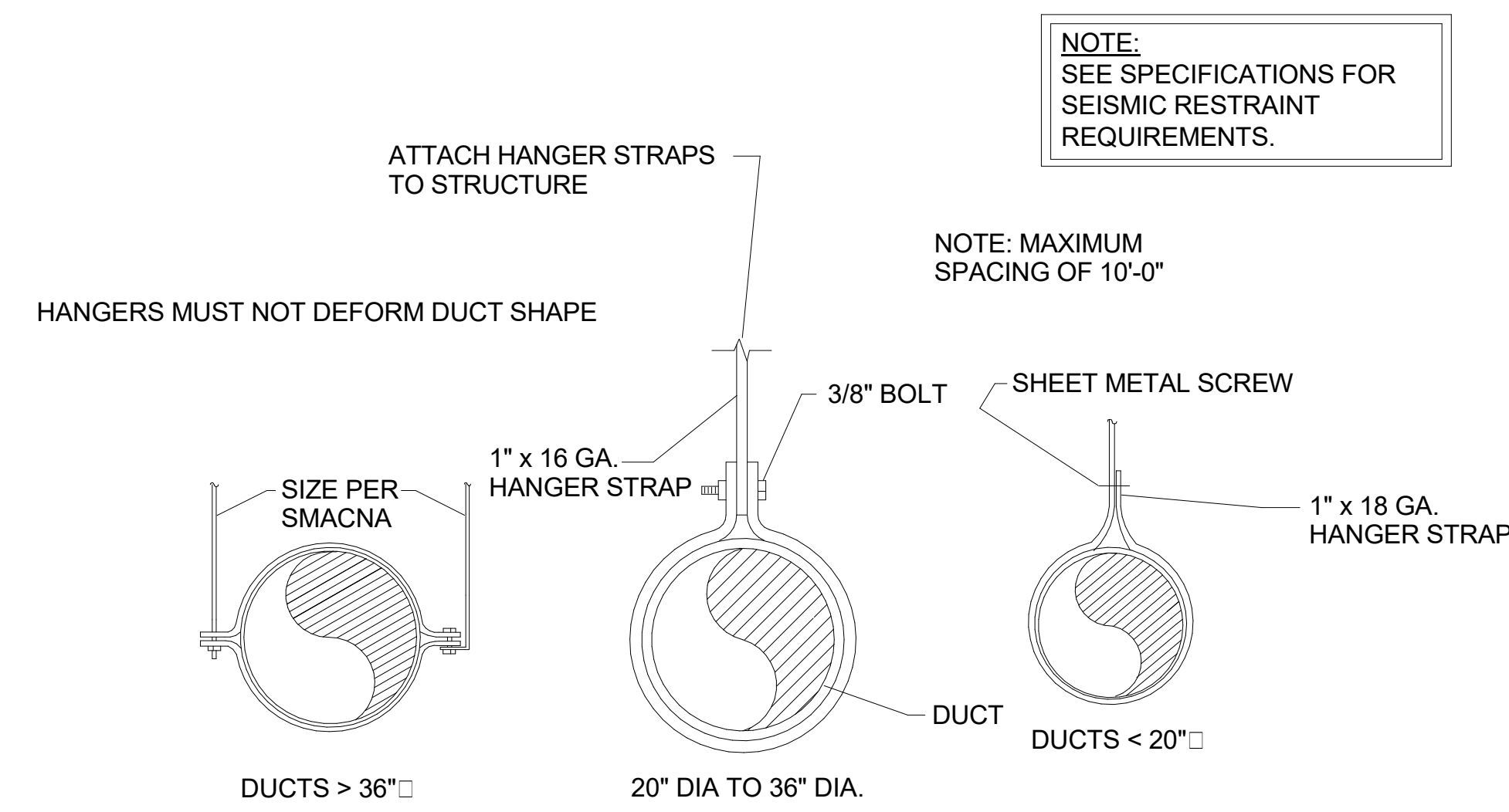
ME101

EXHAUST FAN SCHEDULE													
TAG		AREA SERVED	CFM	ESP	ELECTRICAL					SONES	OPERATING WEIGHT	MANUF & MODEL	SCHEDULE NOTES
TYPE	#				VOLTAGE	PHASE	FREQUENCY	RPM	HP				
EF	1	SANDING	450 CFM	0.50 in-wg	115 V	1	60 Hz	1366	0.17 hp	7.5	51 lb	GREENHECK GB-081	1,2

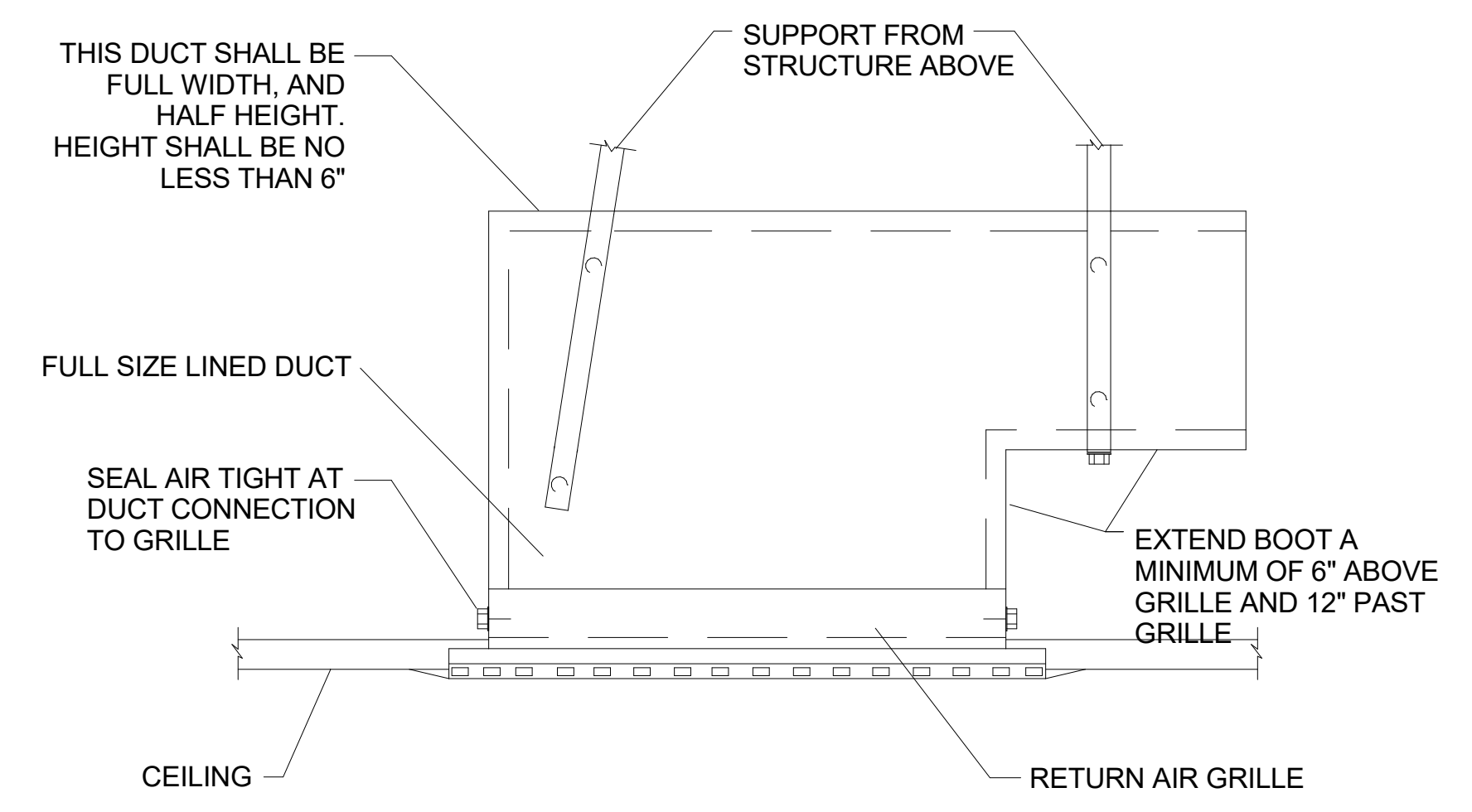
- SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
- RUN CONTINUOUSLY DURING OCCUPIED HOURS.

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	450 CFM	24"	24"	10"	0"	HARD	4 WAY	11'	25	PRICE SPD	1,3,5	
D-2	600 CFM	24"	24"	12"	0"	HARD	4 WAY	13'	25	PRICE SPD	1,3,4	
EG-1	200 CFM	8"	8"	8"	8"	SIDEWALL	N/A	0'	30	PRICE 535	2,3,4	
EG-2	300 CFM	10"	10"	10"	10"	DUCT	N/A	0'	30	PRICE 535	2,3,4	
R-1	1,200 CFM	24"	24"	24"	24"	LAY-IN	N/A	0'	25	PRICE 535	2,3,4	
TG-1	200 CFM	8"	8"	8"	8"	SIDEWALL	N/A	0'	30	PRICE 535	2,3,4	
TG-2	2,300 CFM	24"	36"	24"	36"	SIDEWALL	N/A	0'	30	PRICE 535	2,3,4	

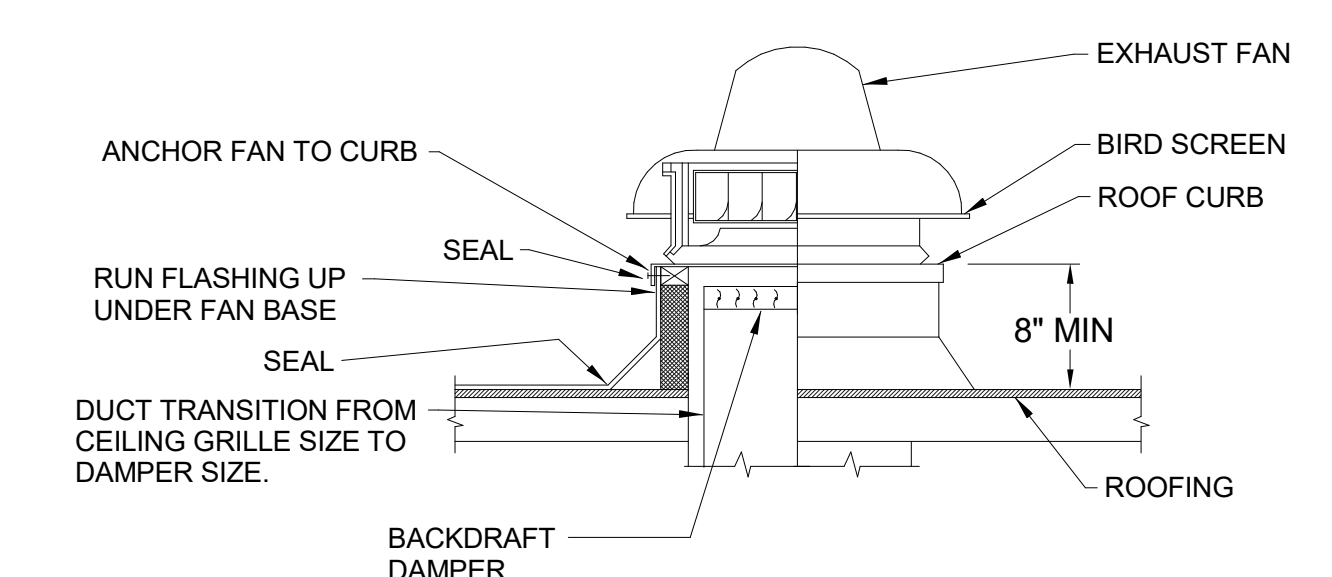
- SHALL BE PRICE SPD OR APPROVED EQUAL.
- SHALL BE PRICE 535 OR APPROVED EQUAL.
- SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
- FINISH SHALL BE SPECIFIED BY ARCHITECT.



A2 ROUND DUCT SUPPORT DETAIL
SCALE: NONE



A4 RETURN AIR GRILLE MOUNTING DETAIL
SCALE: NONE



A6 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: NONE

ARCHITECTS INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
t: 801.298.1368 - f: 801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP

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PROJECT NAME:

**2019 DAVIS TECHNICAL COLLEGE
FREEPORT CENTER BUILDING D5
COMPOSITES REMODEL**

FREEPORT CENTER
CLEARFIELD, UTAH

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION
1	12-19-19	CONSTRUCTION BID SET

ISSUED:	
OWNER PROJECT #:	20073220
SPE PROJECT #:	19-47
DRAWN BY:	DJB
CHECKED BY:	WMP
DESIGNED BY:	DJB
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SHEET TITLE:

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

PLUMBING GENERAL NOTES

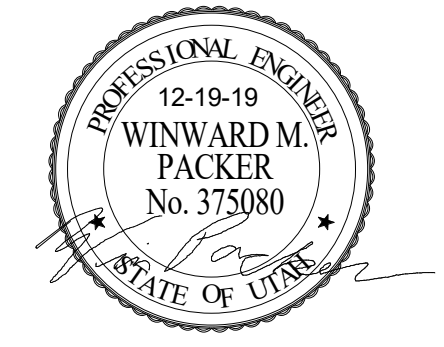
- G-1** - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- G-2** - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE 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 ANSI/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




SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com

PROFESSIONAL STAMP



CODE OFFICIAL STAMP



PROJECT NAME:

**2019 DAVIS TECHNICAL COLLEGE
 FREEPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

FREEPORT CENTER
 CLEARFIELD, UTAH

REVISIONS

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
1	12-19-19	CONSTRUCTION BID SET

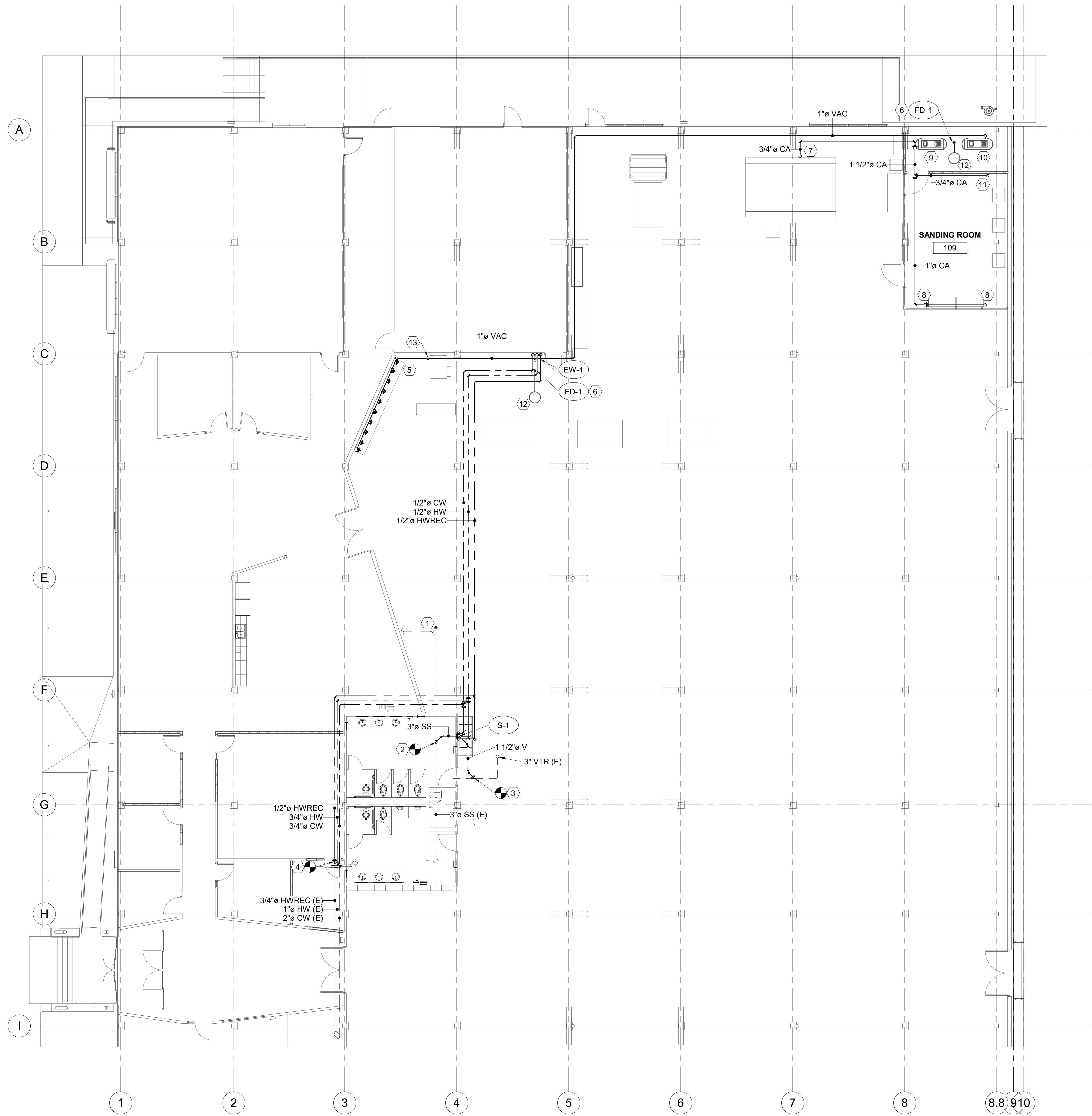
OWNER PROJECT #:	20073220
SPE PROJECT #:	19-47
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DESIGNED BY:	DJB
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SHEET TITLE:

**PLUMBING
 GENERAL NOTES
 & LEGEND**

SHEET NUMBER:

PG001



SHEET NOTES

- 1 EXISTING FLOOR CLEANOUT AND SANITARY SEWER PLUMBING TO REMAIN.
- 2 TIE INTO EXISTING SANITARY SEWER. SAW CUT FLOOR AS REQUIRED.
- 3 TIE INTO EXISTING VENT PIPING.
- 4 TIE INTO EXISTING DOMESTIC WATER PIPING AT THIS APPROXIMATE LOCATION.
- 5 PROVIDE 1" VACUUM DROP. ROUTE VACUUM ALONG WALL AND PROVIDE QUICK CONNECT FITTINGS BETWEEN THE WORK SHELVES.
- 6 PROVIDE FLOOR DRAIN FOR EYEWASH STATION AND DRAIN INTO FRENCH DRAIN. PROVIDE FLOOR DRAIN WITH HINGED COVER TO PREVENT UNNECESSARY USAGE.
- 7 PROVIDE 3/4" COMPRESSED AIR DROP TO CUTTER. COORDINATE LOCATION OF DROP WITH EQUIPMENT.
- 8 PROVIDE 3/4" COMPRESSED AIR DROP TO DOWNDRAFT SANDING TABLE. PROVIDE TWO QUICK CONNECT COUPLERS ON EACH DROP FOR USE OF HAND SANDERS. COORDINATE DROP LOCATION WITH SANDING TABLE.
- 9 INSTALL OWNER PROVIDED AIR COMPRESSOR PER MANUFACTURER'S RECOMMENDATIONS. QUINCY QT-7.5 RECIPROCATING AIR COMPRESSOR.
- 10 INSTALL OWNER PROVIDED VACUUM PUMP PER MANUFACTURER'S RECOMMENDATIONS. BECKER MODEL DT 4.25D DUPLEX.
- 11 PROVIDE 3/4" COMPRESSED AIR DROP ALONG WALL. PROVIDE MANIFOLD WITH 4 QUICK CONNECT FITTINGS.
- 12 FIELD VERIFY BEST LOCATION FOR FRENCH DRAIN.
- 13 PROVIDE 3/4" VACUUM DROP TO OVEN.

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SHEET TITLE:

PLUMBING FLOORPLAN

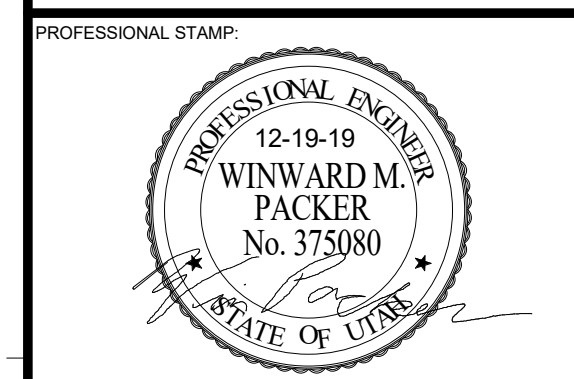
SHEET NUMBER:

PE101

1 PLUMBING FLOORPLAN
 1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE							(TAG)
FIXTURE NUMBER	FIXTURE	PLUMBING PIPE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
EW-1	EMERGENCY EYE WASH	1 1/4"	1 1/2"	1 1/4"	1/2"	1/2"	PROVIDE SELF SUPPORTING EMERGENCY EYEWASH. BRADLEY S19-210Y OR EQUAL. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE
FD-1	FLOOR DRAIN	4"	4"	2"	0"	0"	FLOOR DRAIN WITH HINGED COVER. WATTS FD-100-VS OR EQUAL.
S-1	2 COMP SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER MOUNTED 2 COMPARTMENT STAINLESS STEEL SINK. PROVIDE WITH THERMOSTATIC AND PRESSURE MIXING VALVE. JUST 18 GAUGE OR EQUAL.

ARCHITECTS INFORMATION
SPE
 ARCHITECT
SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 t: 801.298.1368 - f: 801.298.2192
 info@spe-architect.com
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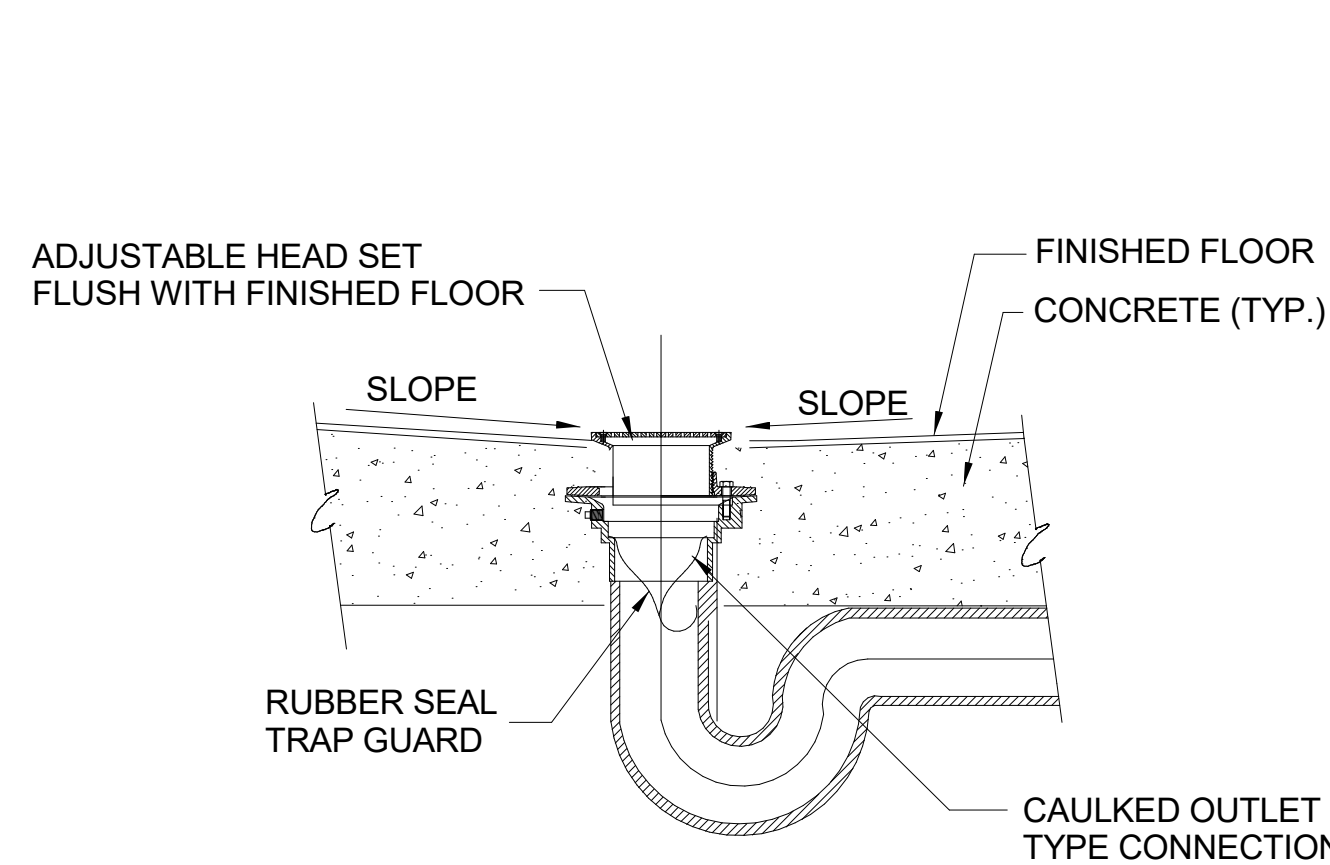
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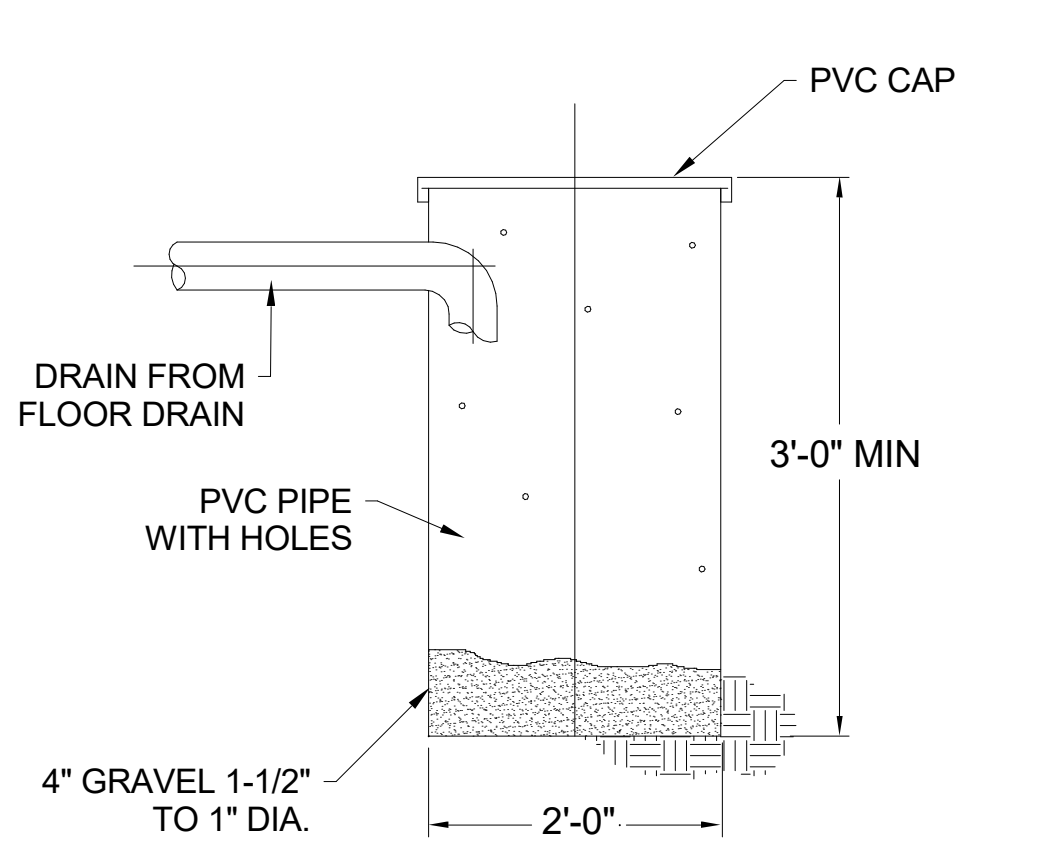
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SHEET TITLE:
PLUMBING SCHEDULES

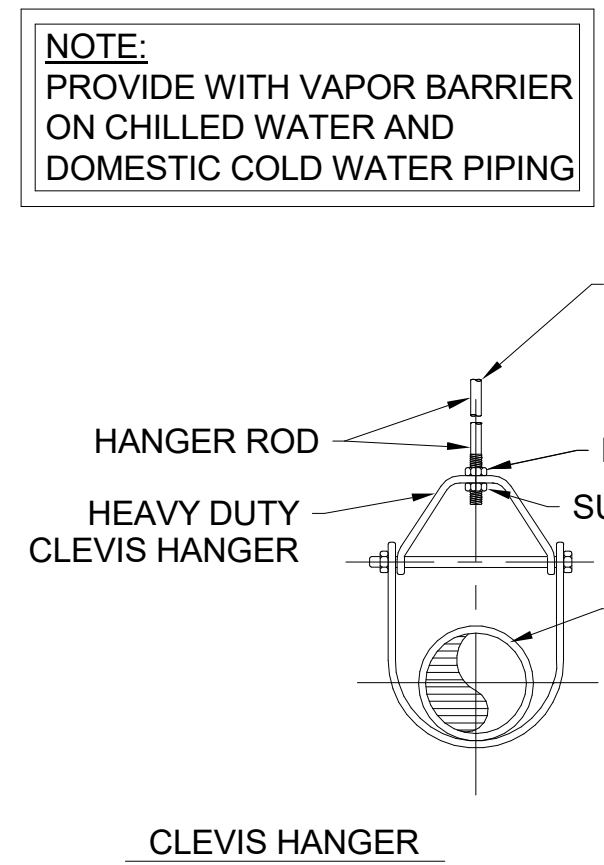
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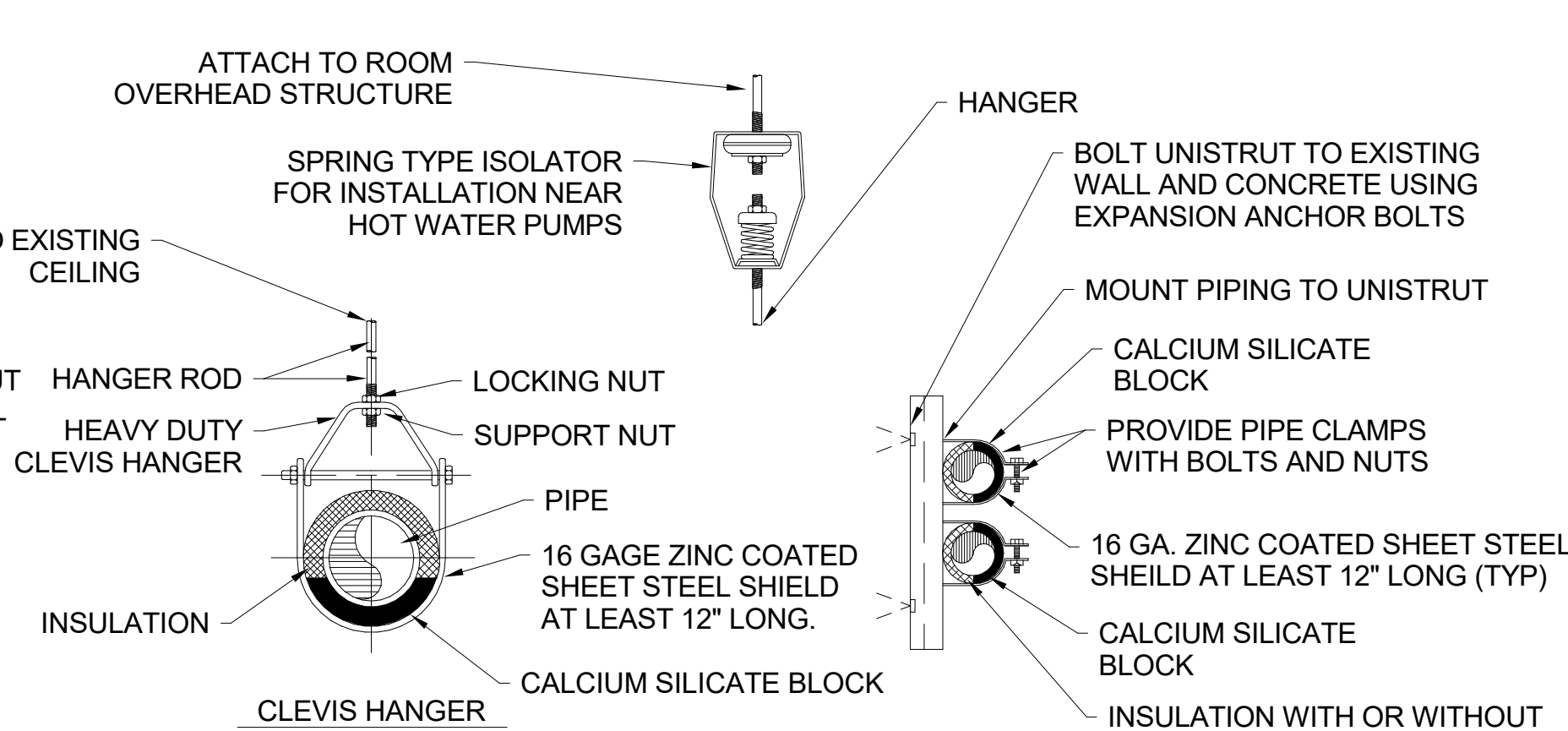
A1 FLOOR DRAIN DETAIL
 SCALE: NONE



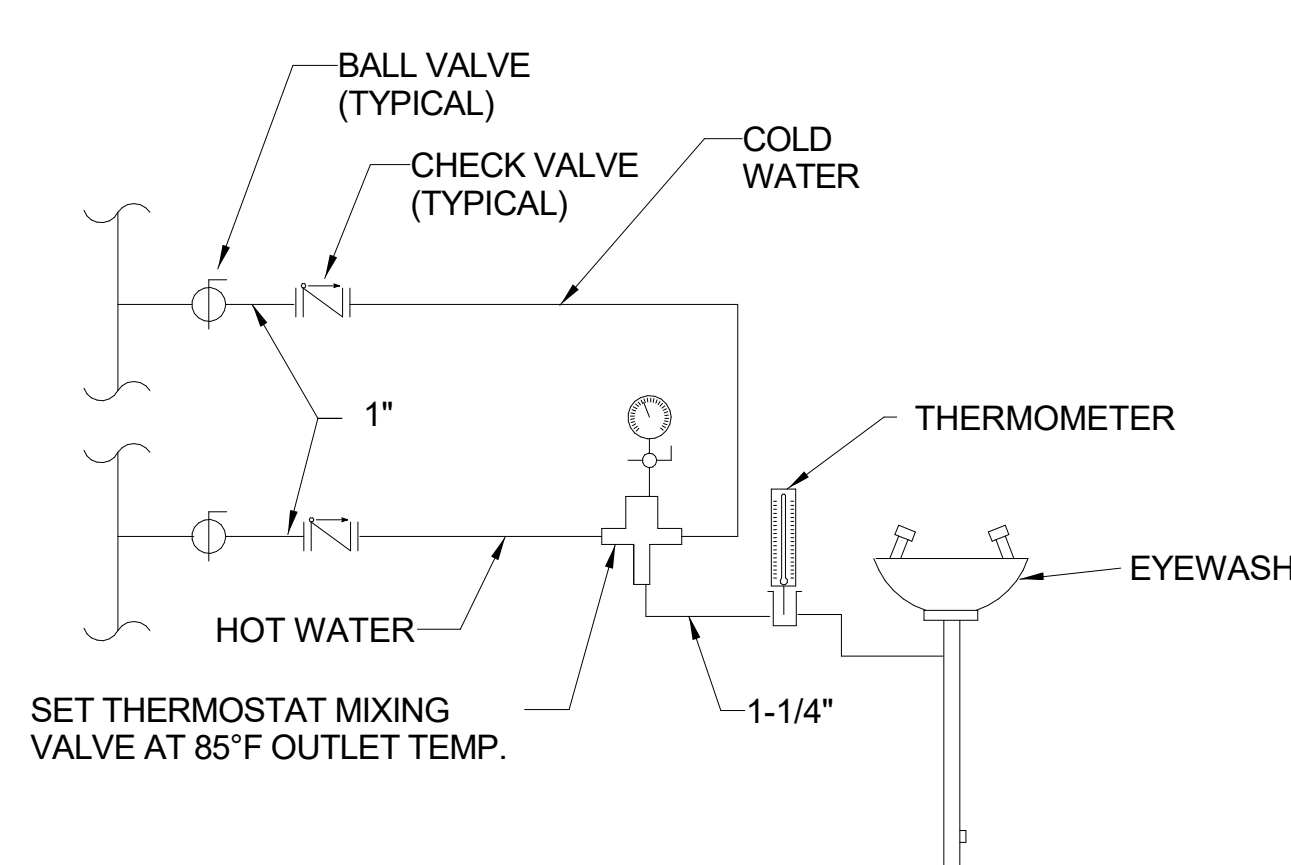
A2 DETAIL OF FRENCH DRAIN
 SCALE: NONE



**A3 CLEVIS HANGER
 SINGLE HORIZONTAL RUN
 WITHOUT INSULATION**



A4 PIPE HANGER DETAIL



A6 EMERGENCY EYE WASH DETAIL
 SCALE: NONE

NOTE:
 PROVIDE WITH VAPOR BARRIER
 ON CHILLED WATER AND
 DOMESTIC COLD WATER PIPING

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	KW	KILOWATT
2WAY	TWO-WAY	KWH	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LH	LIGHT EMITTING DIODE
3WAY	THREE-WAY	LTD	LIQUID TIGHT FLEXIBLE
4/OUT	QUADRUPLE RECEPTACLE OUTLET	LFMC	METAL CONDUIT
4PDT	FOUR-POLE DOUBLE THROW	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4PST	FOUR-POLE SINGLE THROW	LPS	LOW PRESSURE SODIUM
4W	FOUR-WIRE	LRA	LOCKED ROTOR AMPS
4WAY	FOUR-WAY	LTG	LIGHTING
A	ABOVE COUNTER	LV	LOW VOLTAGE
AC	ARMORED CABLE	LV	MASTER ANTENNA TELEVISION SYSTEM
ADA	AMERICANS WITH DISABILITIES ACT	MAX	MAXIMUM
ADJ	ADJACENT	MC	METAL CLAD
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	MCC	MOTOR CONTROL CENTER
ALUM	ALUMINUM	MCP	MOTOR CIRCUIT PROTECTION
AMP	AMPERE	MDF	MAIN DISTRIBUTION PANEL
ANN	ANNUNCIATOR	MG	MOTOR GENERATOR
AP	ACCESS POINT (WIRELESS DATA)	MH	MANHOLE
AR	AS REQUIRED	MN	MINIMUM
ASC	AMPS SHORT CIRCUIT	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MOCPP	MAXIMUM OVERCURRENT PROTECTION
AV	AUDIO VISUAL	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAGE	NC	NORMALLY CLOSED
BB	BUCK-BOOST TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
BFMR	BUILT-IN TRANSFORMER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C	CEILING MOUNTED COMMUNITY ANTENNA TELEVISION	NFC	NATIONAL FIRE CODE
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION	NL	NIGHT LIGHT
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	NO	NORMALLY OPEN
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	NTS	NOT TO SCALE
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OC	ON CENTER
CKT	CIRCUIT	OCPP	OVER CURRENT PROTECTION
CM	CONSTRUCTION MANAGER	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CND	CONDUIT	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CO	CONVENIENCE OUTLET	OPF	OBTAIN FROM PLANS
COR	CONTRACTING OFFICER'S REPRESENTATIVE	OH DR	OVERHEAD (COILING) DOOR
CP	CONTROL PANEL	OL	OVERLOAD
CT	CURRENT TRANSFORMER	PB	PUSHBUTTON
CTV	CABLE TELEVISION	PF	POWER FACTOR
CSA	COPPER	PH	PHASE
CSBA	UNIT OF SOUND LEVEL	PT	POTENTIAL TRANSFORMER
DPDT	DOUBLE POLE, DOUBLE THROW	PTZ	PANTILT/ ZOOM
DS	DISCONNECT SWITCH	QTY	QUANTITY
EA	EACH	R	REMOVE
EM	EMERGENCY	RCP	REFLECTED CEILING PLAN
EMT	ELECTRICAL METALLIC TUBING	RMC	RIGID METAL CONDUIT
ENT	ELECTRIC NONMETALLIC TUBING	RNC	RIGID NONMETAL CONDUIT
EPO	EMERGENCY POWER OFF EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
EQIP	EXISTING	RR	REMOVE AND RELOCATE
F	FURNITURE MOUNTED	SS	START/STOP
FA	FIRE ALARM	SCA	SHORT CIRCUIT AMPS
FAP	FIRE ALARM CONTROL PANEL	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
FLA	FULL LOAD AMPS	SF	SQUARE FOOT (FEET)
FMC	FLEXIBLE METAL CONDUIT	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FOB	FREIGHT ON BOARD	SPDT	SINGLE POLE, DOUBLE THROW
FVNR	FULL VOLTAGE NON-REVERSING	SPEC	SPECIFICATION
FVR	FULL VOLTAGE REVERSING	SPST	SINGLE POLE, SINGLE THROW
G	GROUND	ST	SINGLE THROW
GEN	GENERATOR	SWBD	SWITCHBOARD
GFCI	GROUND FAULT INTERRUPTER	SWGR	SWITCHGEAR
GFP	GROUND FAULT PROTECTION	TL	TWIST LOCK
HD	HEAVY DUTY	TP	TELEPHONE POLE
HID	HIGH INTENSITY DISCHARGE	TP	TWISTED PAIR BOARD
HOA	HAND-OFF-AUTOMATIC	TTB	TELEPHONE TERMINAL BOARD
HP	HORSE POWER	TV	TELEVISION
HPF	HIGH POWER FACTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HV	HIGH VOLTAGE	UF	UNDERFLOOR
HZ	HERTZ	UGND	UNDERGROUND
IO	INPUT OUTPUT	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLTS
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT AMPERE
INIS	INSULATED ISOLATED	VFC/VF	VARIABLE FREQUENCY MOTOR CONTROLLER
IR	INFRARED	W	WITH
J-BOX	JUNCTION BOX	W/O	WITHOUT
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED" WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC.

GENERAL ELECTRICAL NOTES

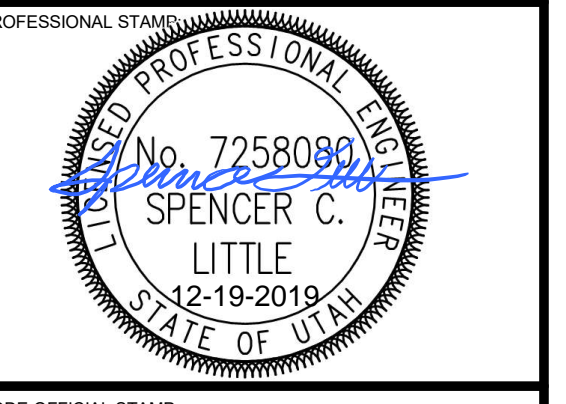
- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE ARCHITECTED ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
- THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
- THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
- THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED, JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
- ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.
- TAKE OFF QUANTITIES SHOWN IN SCHEDULE(S) ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OF THE DEVICES, FIXTURES, EQUIPMENT, RACEWAYS, CONDUCTORS, CABLING, ETC. SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS INCLUDING THE EXTRA MATERIAL SPECIFIED.

ELECTRICAL SHEET INDEX

EE001	SHEET INDEX AND GENERAL NOTES
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EE402	3D PLAN OVERALL
EE501	ELECTRICAL DETAILS
EE502	ELECTRICAL DETAILS
EE701	TYPICAL MOUNTING HEIGHT DETAILS
ED101	LEVEL 1 ELECTRICAL DEMOLITION PLAN
EP101	LEVEL 1 POWER PLAN
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EP601	ONE-LINE DIAGRAM
EP602	EQUIPMENT & PANEL SCHEDULES
EL101	LEVEL 1 LIGHTING PLAN
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EL603	LIGHTING CONTROL DETAILS
ETS01	TELECOM DETAILS



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01	12/19/19	CONSTRUCTION BID SET

OWNER PROJECT #: 20073220
 SPE PROJECT #: 19-47
 DRAWN BY: BRE
 CHECKED BY: SCL
 DESIGNED BY: SCL
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SHEET TITLE:
**SHEET INDEX
 AND GENERAL
 NOTES**

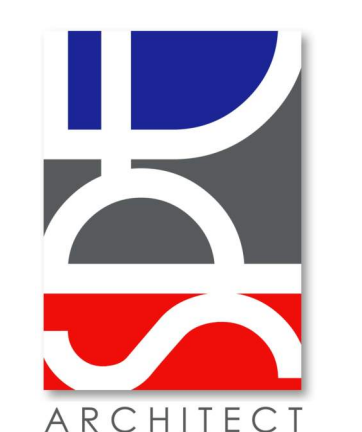
SHEET NUMBER:
EE001

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	GENERATOR, POWER (ONE-LINE DIAGRAM).
	METER.
	DISCONNECT SWITCH, FUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	PUSHBUTTON.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER: NUMBER INDICATES KVA.
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR CONTROL RELAY.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	PHOTOCELL.
	TIME CLOCK.
	EMERGENCY LIGHTING CONTROL UNIT, WATTSTOPPER (ELCU-200)
	CEILING FAN.
	OCCUPANCY SENSOR, SWITCH PACK.
	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIGITAL PLUG LOAD CONTROLLER
	LIGHTING NETWORK SWITCH.
	LIGHTING NETWORK ROUTER.
	LIGHTING NETWORK SEGMENT MANAGER
	LIGHTING SPACE CONTROL TYPE: X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
	DIGITAL LIGHTING DIMMING CONTROLLER. "1C1" IS A UNIQUE CONTROLLER IDENTIFICATION TAG
	DIGITAL LIGHTING ROOM CONTROLLER. "1C2" IS A UNIQUE CONTROLLER IDENTIFICATION TAG
	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "Z1,Z2" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
	EMERGENCY.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	LOW VOLTAGE LIGHTING TRANSFORMER.
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
	FIXTURE ID (D420) INDICATES FIXTURE TYPE AS SCHEDULED "1C1" INDICATES ROOM/DIMMING CONTROLLER CIRCUITING "Z1" INDICATES ZONE CIRCUITING.
	FIXTURE ID (D420) INDICATES FIXTURE TYPE AS SCHEDULED "1C1e" INDICATES ROOM/DIMMING CONTROLLER CIRCUITING "Z1" INDICATES ZONE CIRCUITING "E" INDICATES EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED


SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	OVERLOAD RELAY (ONE-LINE DIAGRAM).
	STARTER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
	MOTOR.
	COMBINATION RESIDENTIAL EXHAUST FAN/LIGHT.
	TRANSFORMER (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
	ELECTRIC LINE: THIN LINE: 1Ø = SINGLE PHASE, 2Ø = 2-PHASE, 3Ø = 3-PHASE, Ø = OVERHEAD, U = UNDERGROUND, P = PRIMARY, S = SECONDARY
	LIGHTNING ARRESTER.
	UTILITY POLE.
	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
	UTILITY, PRIMARY ELECTRICAL GROUND SLEEVE.
	UTILITY SERVICES, MANHOLE.
	UTILITY, COMMUNICATIONS MANHOLE.
	UTILITY, ELECTRICAL MANHOLE.
	UTILITY, TELEPHONE MANHOLE.
	PRECAST CONCRETE, MANHOLE, TRANSFORMER VAULT.
	PRECAST CONCRETE, TRANSFORMER PAD.
	SUBSTATION.
	TRANSFORMER.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	MECHANICAL EQUIPMENT INDICATOR: "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
	CONTRACT LIMIT LINE: DASH-DOT, WIDE LINE.
	KITCHEN EQUIPMENT INDICATOR: "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XKP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
STRUCTURED CABLING	
	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
	DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE
	TELEPHONE, WALL MOUNTED: WALL PHONE.
	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES)
	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION.
	TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC, WALL MOUNTED IN RECESSED BOX.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
	DATA CABLE, CATEGORY 5 (ONE-LINE DIAGRAM).
	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).
WIRING METHODS	
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.
	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
	CABLE TRAY ABOVE ACCESSIBLE CEILING.
	EARTH GROUND (ONE-LINE DIAGRAM).
	JUNCTION BOX, CEILING.
	LADDER RACK.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.


SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE: PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, DRYER: NEMA 14-30R.
	RECEPTACLE, RANGE: NEMA 14-50R.
	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
	DROP CORD. SEE DETAIL.
	FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	FLUSH FIRE RATED POKE THRU. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOOR.
	SWITCH, KEY OPERATED.
	SWITCH, WEATHERPROOF.
	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.
	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
	RECEPTACLE, DULEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
	RECEPTACLE, QUADRAPLEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
	INDICATES A RECEPTACLE IS AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
CCTV	
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
SECURITY	
	CARD READER.
TV DISTRIBUTION	
	TV OUTLET.



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com



PROFESSIONAL ENGINEER
 No. 7258099
 SPENCER C. LITTLE
 12-19-2019
 STATE OF UTAH



REVIEWED FOR
 CODE COMPLIANCE
 DATE: 12/19/2019

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
 FREEPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

REVISIONS:

NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

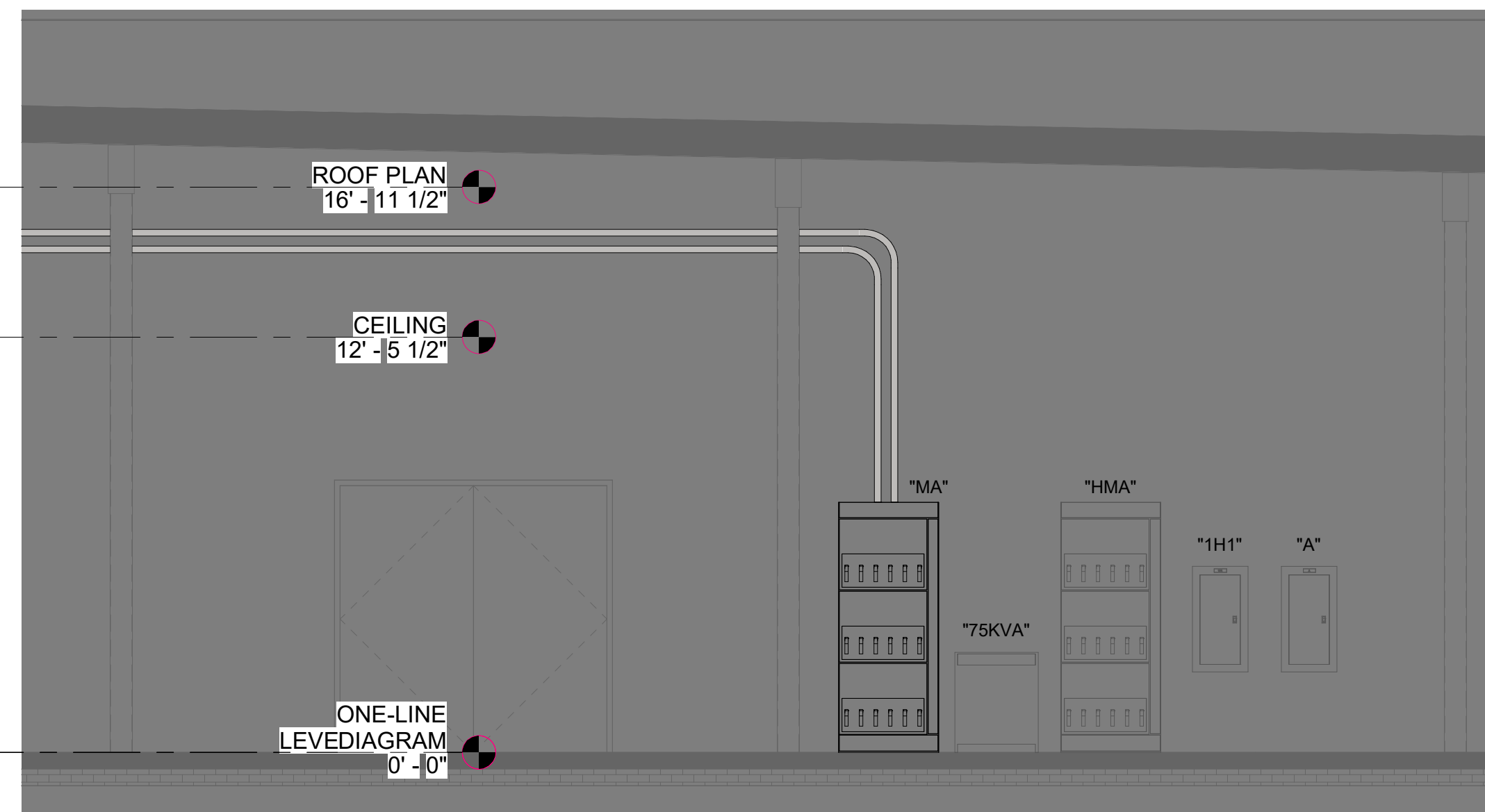
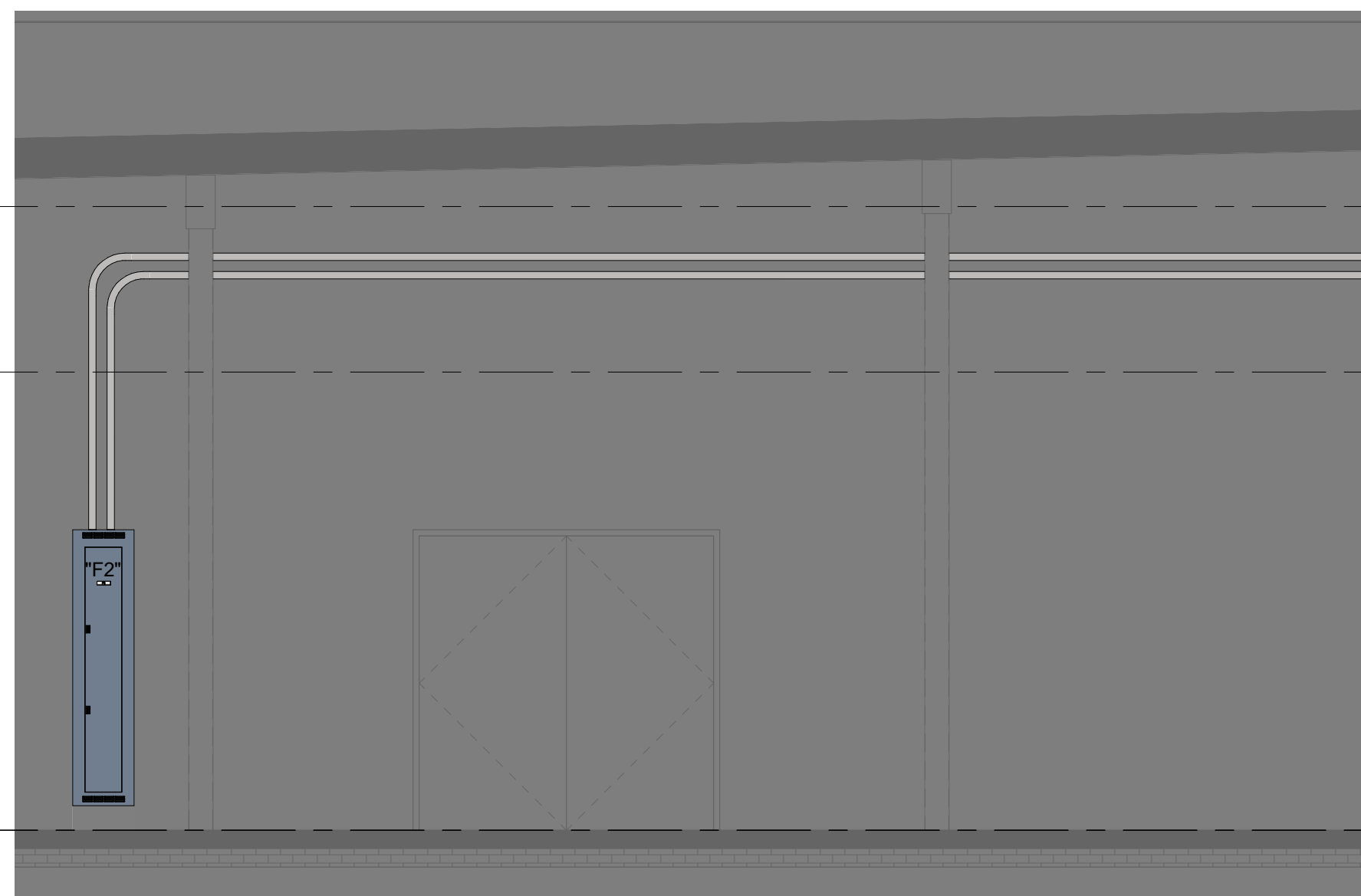
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NO.	DATE	DESCRIPTION
01	12/19/19	CONSTRUCTION BID SET

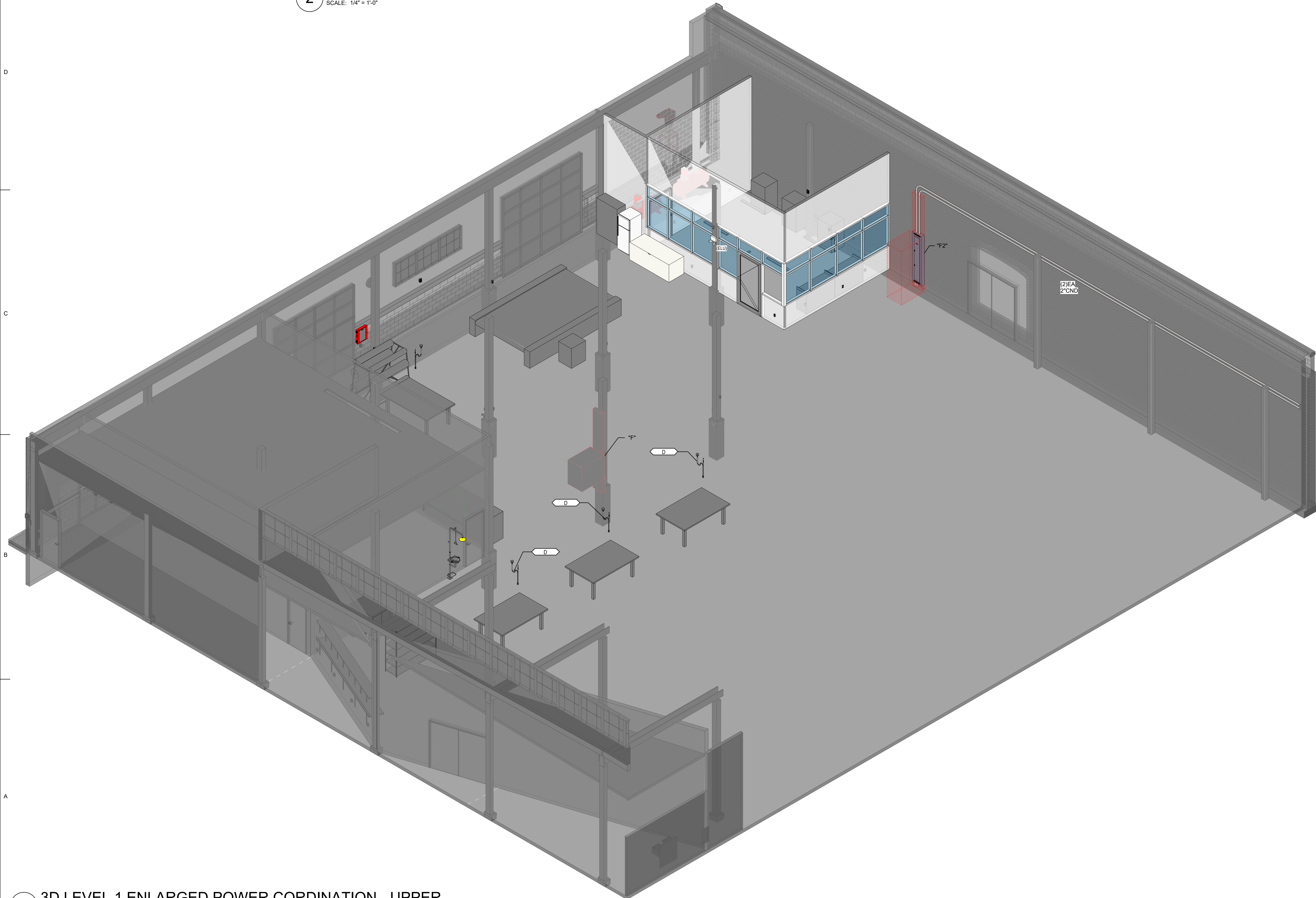
OWNER PROJECT #: 20073220
 SPE PROJECT #: 19-47
 DRAWN BY: BRE
 CHECKED BY: SCL
 DESIGNED BY: SCL
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SHEET TITLE:
SYMBOLS LEGEND

SHEET NUMBER:
EE002



2 POWER DISTRIBUTION DETAIL - F2
SCALE: 1/4" = 1'-0"



1 3D LEVEL 1 ENLARGED POWER CORDINATION - UPPER
SCALE:

GENERAL SHEET NOTES

- 1 CENTER ALL CEILING MOUNTED LIGHT FIXTURES AND DEVICES SHALL BE CENTERED IN CEILING TILE, UNLESS OTHERWISE NOTED.
- 2 CIRCUIT ALL EXIT SIGNS TO NEAREST UNSWITCHED LEG OF EMERGENCY LIGHTING CIRCUIT.
- 3 ALL ENCLOSED SPACES SHALL HAVE MANUAL ON LIGHTING CONTROL WITH AUTOMATIC OFF VIA DUAL TECHNOLOGY SENSOR OR TIME CLOCK. SENSOR(S) SHALL PROVIDE A MINIMUM OF 90 PERCENT COVERAGE IN SPACE. PROVIDE ADDITIONAL SENSORS AS REQUIRED. COMPLY WITH 2015 IECC SECTION C405.
- 4 PROVIDE DAYLIGHTING CONTROL FOR ALL LIGHTING WITH IN DAYLIGHT ZONE AS DEFINED BY THE 2015 IECC. PROVIDE DIMMING LIGHTING FIXTURES AND DAYLIGHT SENSOR PHOTOCELL.
- 5 INSTALL LIGHT FIXTURES INLINE AND CENTERED.
- 6 COORDINATE ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT.
- 7 ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES.
- 8 COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGTH OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGER COVE/CLOUD LIGHTING OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
- 9 LOCATE ALL VACANCY/OCCUPANCY SENSORS MINIMUM OF 6 FEET FROM SUPPLY AIR DIFFUSERS AND 3 FEET FROM RETURN AIR DIFFUSERS.
- 10 ALL CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY WITH BUILT IN LIGHT LEVEL SENSOR AND BASH/VAC ISOLATED RELAY.
- 11 ALL LIGHT FIXTURES THAT PENETRATE FIRE RATED SURFACE SHALL BE IN A FIRE RATED ASSEMBLY OR BE PROVIDED WITH A FIRE RATED ASSEMBLY TO MAINTAIN A FIRE RATE SURFACE.
- 12 LOCATE ALL ROOM CONTROLLER IN ACCESSIBLE CEILING OR IN THE ELECTRICAL ROOM.

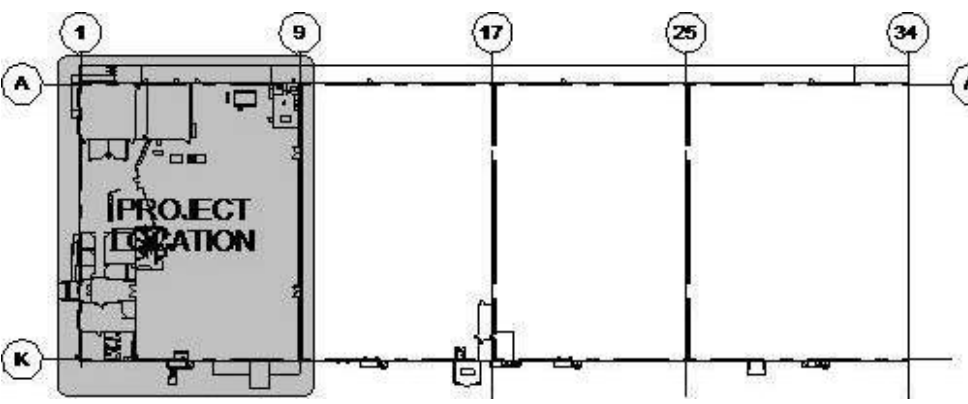
COMMISSIONING NOTES

- 1 THE CONTRACTOR SHALL PERFORM OR SHALL ENGAGE A PARTY TO PERFORM THE FOLLOWING TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE.
- 2 ENSURE THAT THE LIGHTING CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS COMPLY WITH 2015 IECC SECTION C408.3.
- 3 ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 4 WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED PARTY INDEPENDENT FROM THE DESIGN OR CONSTRUCTION OF THE PROJECT SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF 2015 IECC SECTION C405.
- 5 PROVIDE THE FOLLOWING PROCEDURES FOR EACH, OCCUPANT SENSOR, TIME SWITCH, PROGRAMMABLE SCHEDULE CONTROL, PHOTOSENSOR, AND DAYLIGHTING CONTROL.
- 6 CONFIRM THAT THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENTS FOR THE OCCUPANT SENSOR S YIELD ACCEPTABLE PERFORMANCES.
- 7 CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- 8 CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR THE PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

SHEET KEYNOTES

NO.	DATE	DESCRIPTION
1	12/19/19	CONSTRUCTION BID SET

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SPE PROJECT #:	19-47
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ARCHITECTS INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
1.801.298.1368 - f.801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
FREERPORT CENTER BUILDING D5
COMPOSITES REMODEL**

ISSUED:

NO.	DATE	DESCRIPTION
1	12/19/19	CONSTRUCTION BID SET

OWNER PROJECT #:

SPE PROJECT #:

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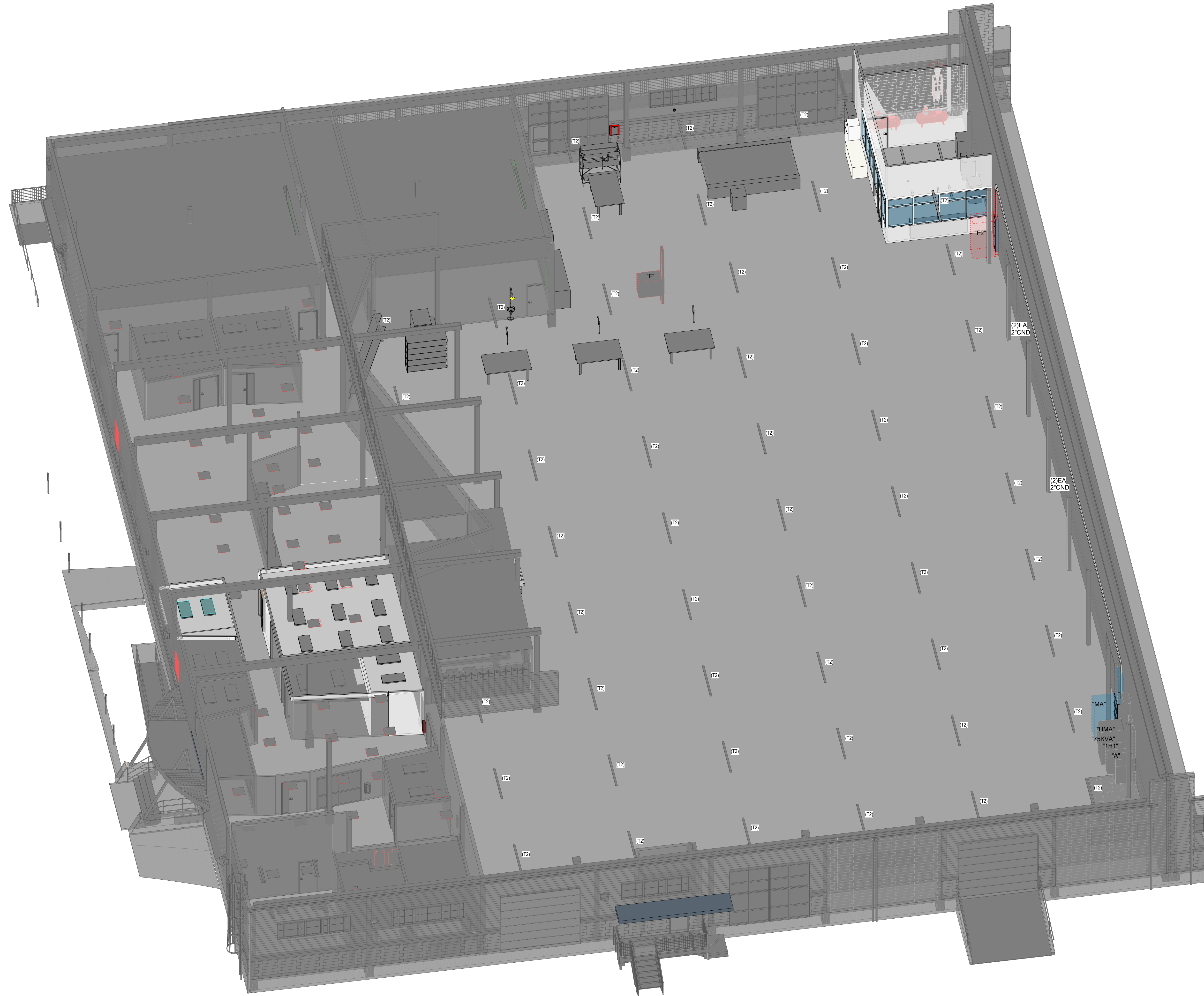
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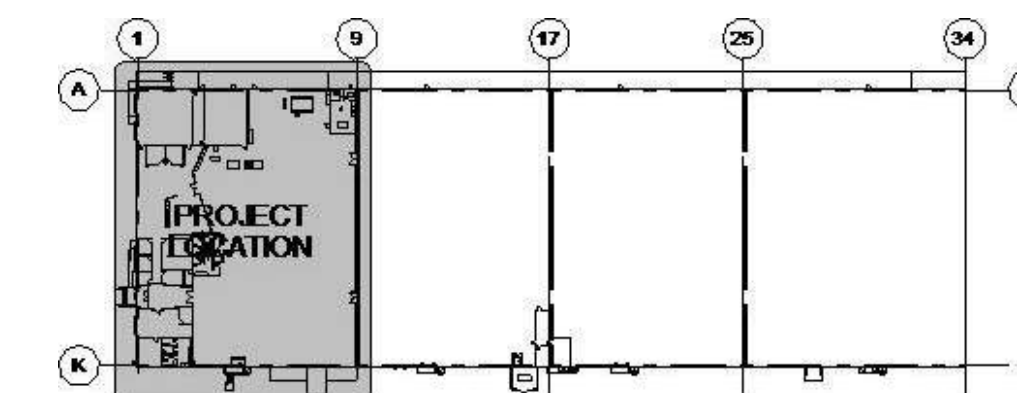
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SHEET TITLE:
3D PLAN ENLARGED

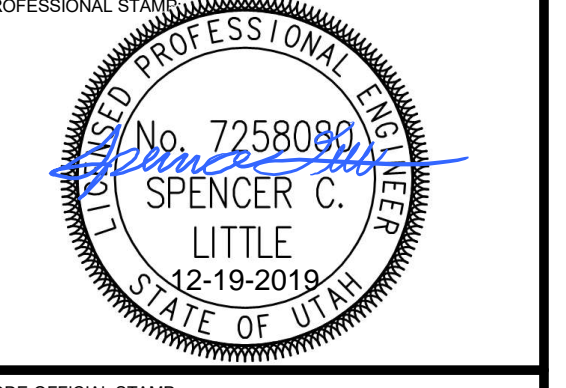
SHEET NUMBER:
EE401



1 3D LEVEL 1 POWER COORDINATION - OVERALL
SCALE: NTS



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
t: 801.298.1368 - f: 801.298.2192
info@spe-architect.com
www.spe-architect.com



PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
FREEMONT CENTER BUILDING D5
COMPOSITES REMODEL**

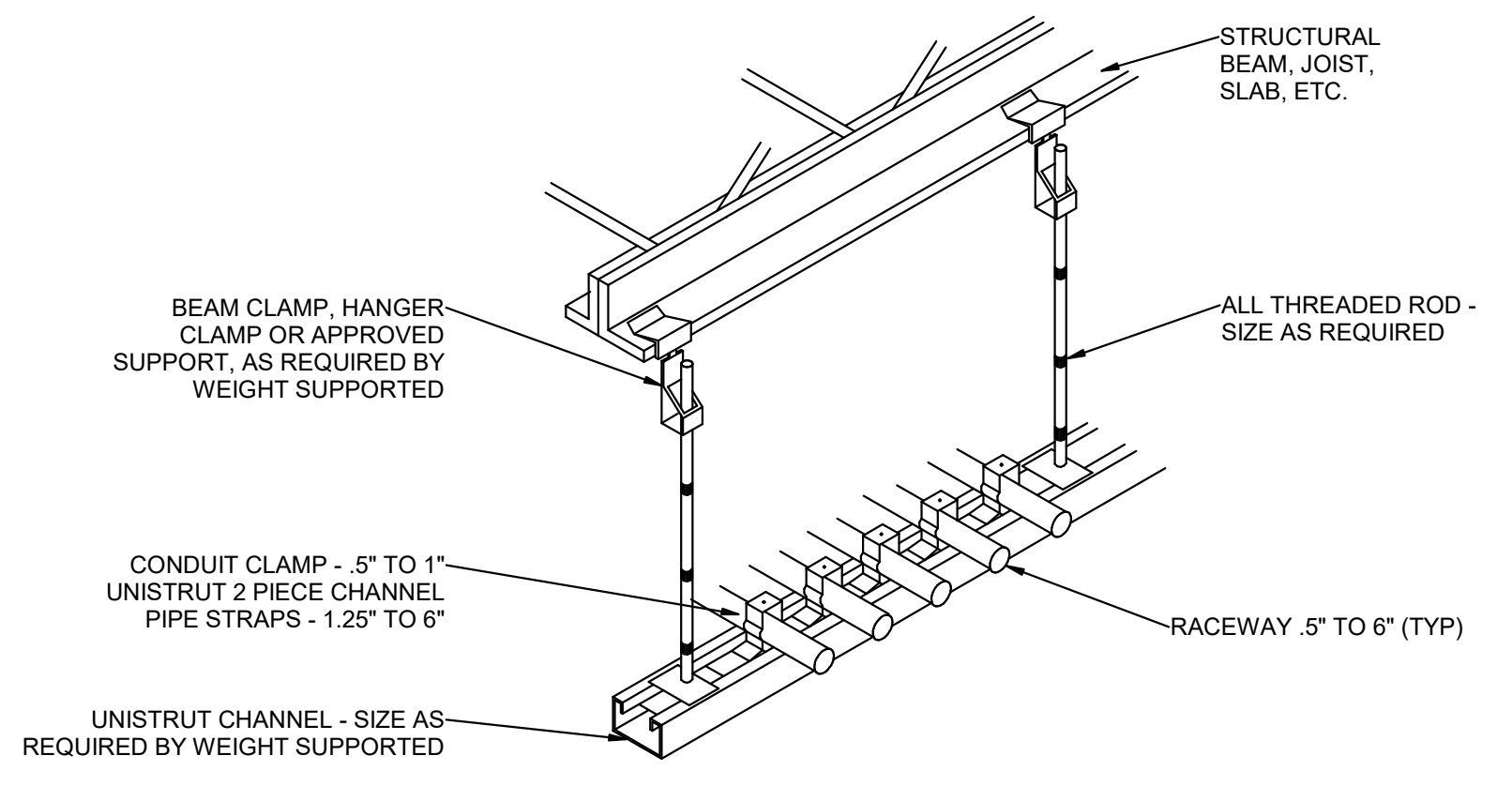
REVISIONS:

NO.	DATE	DESCRIPTION
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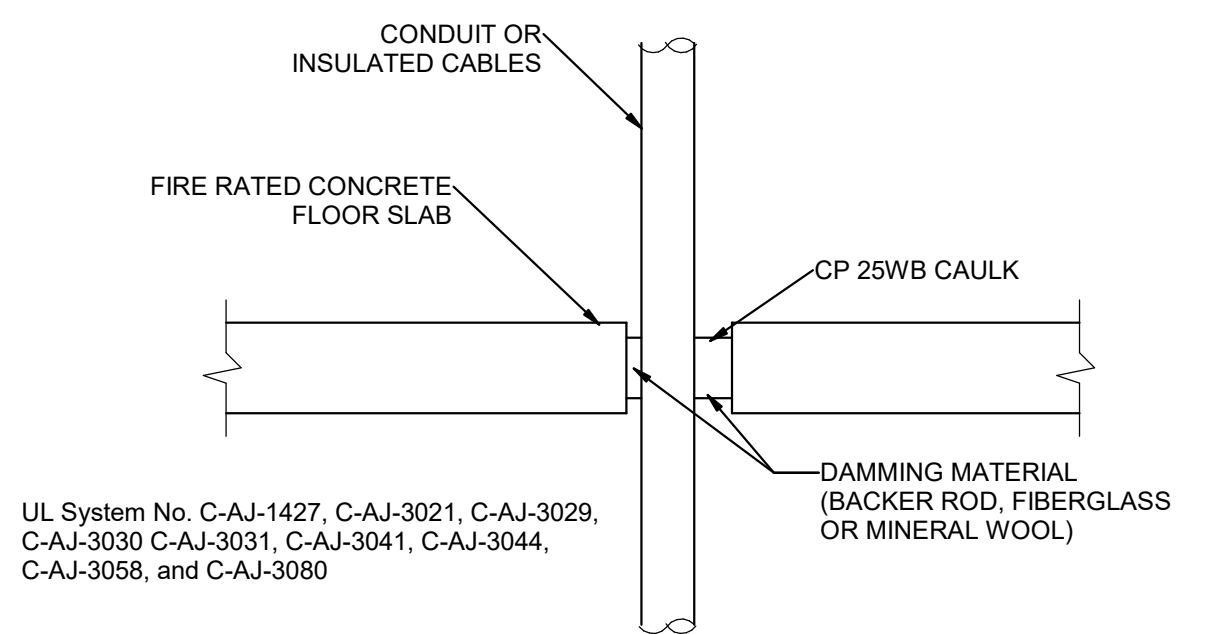
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SHEET TITLE:
3D PLAN OVERALL

SHEET NUMBER:
EE402

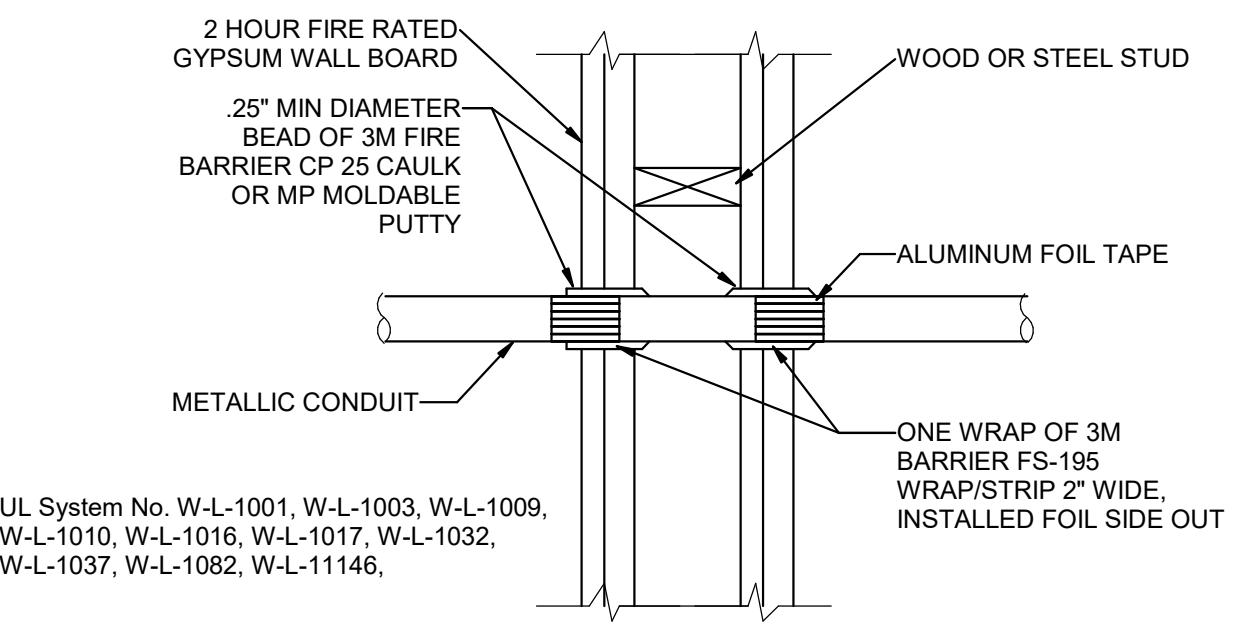


9 TYPICAL CONDUIT RACK DETAIL
 SCALE: 1/8" = 1'-0"



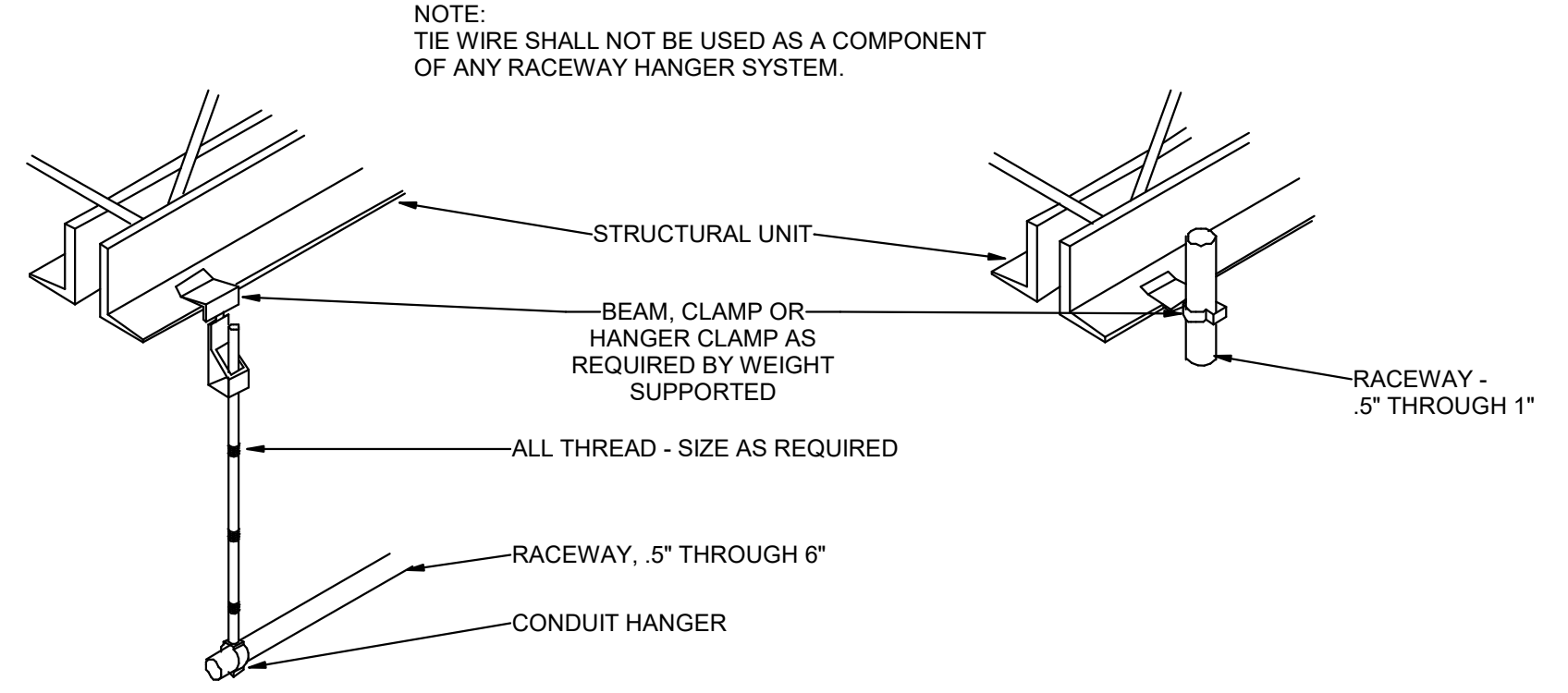
8 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING
 SCALE: NTS

UL System No. C-AJ-1427, C-AJ-3021, C-AJ-3029, C-AJ-3030, C-AJ-3031, C-AJ-3041, C-AJ-3044, C-AJ-3058, and C-AJ-3080

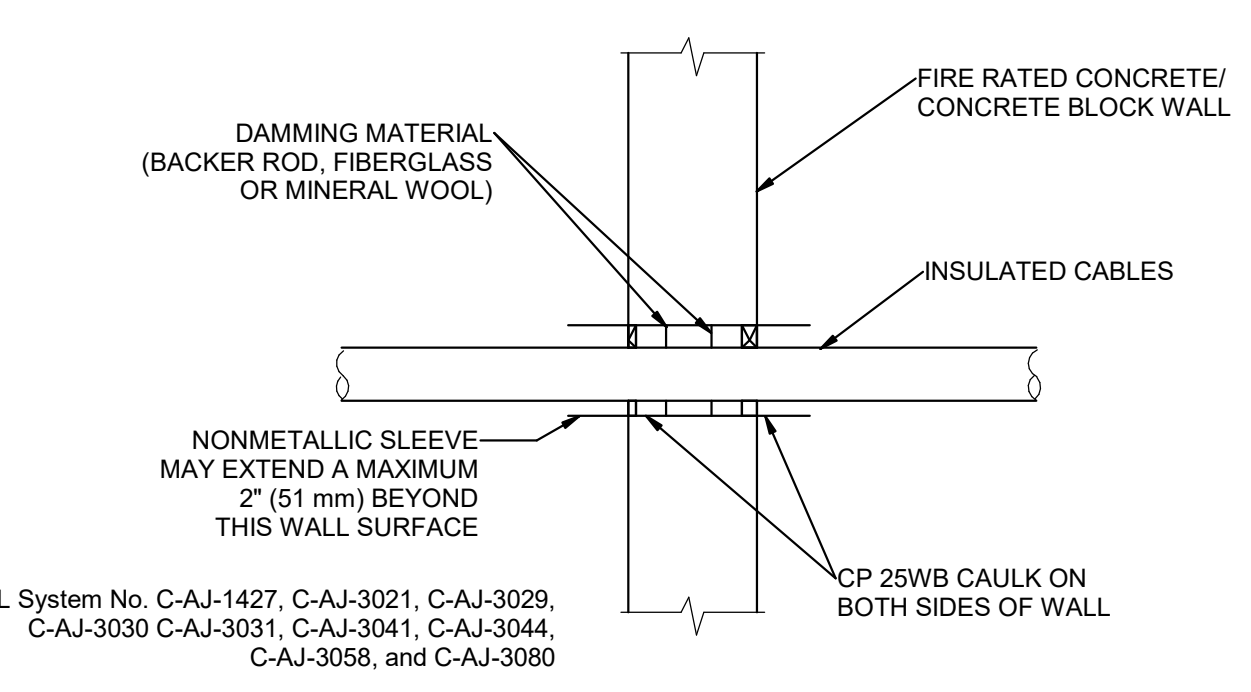


6 FIRE STOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD
 SCALE: NTS

UL System No. W-L-1001, W-L-1003, W-L-1009, W-L-1010, W-L-1016, W-L-1017, W-L-1032, W-L-1037, W-L-1082, W-L-1146.

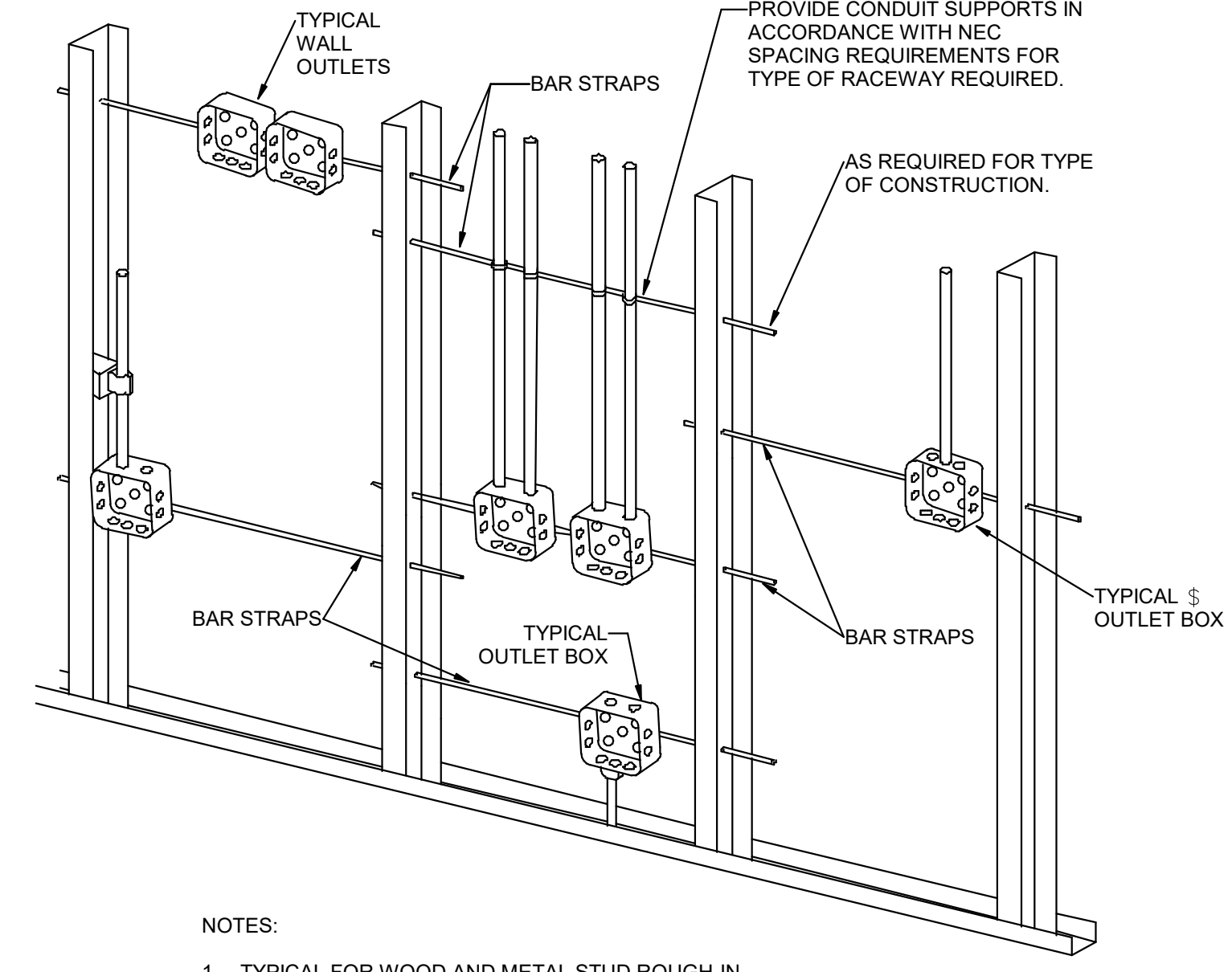


5 TYPICAL RACEWAY SUPPORT METHODS DETAIL
 SCALE: 1/8" = 1'-0"



4 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS
 SCALE: NTS

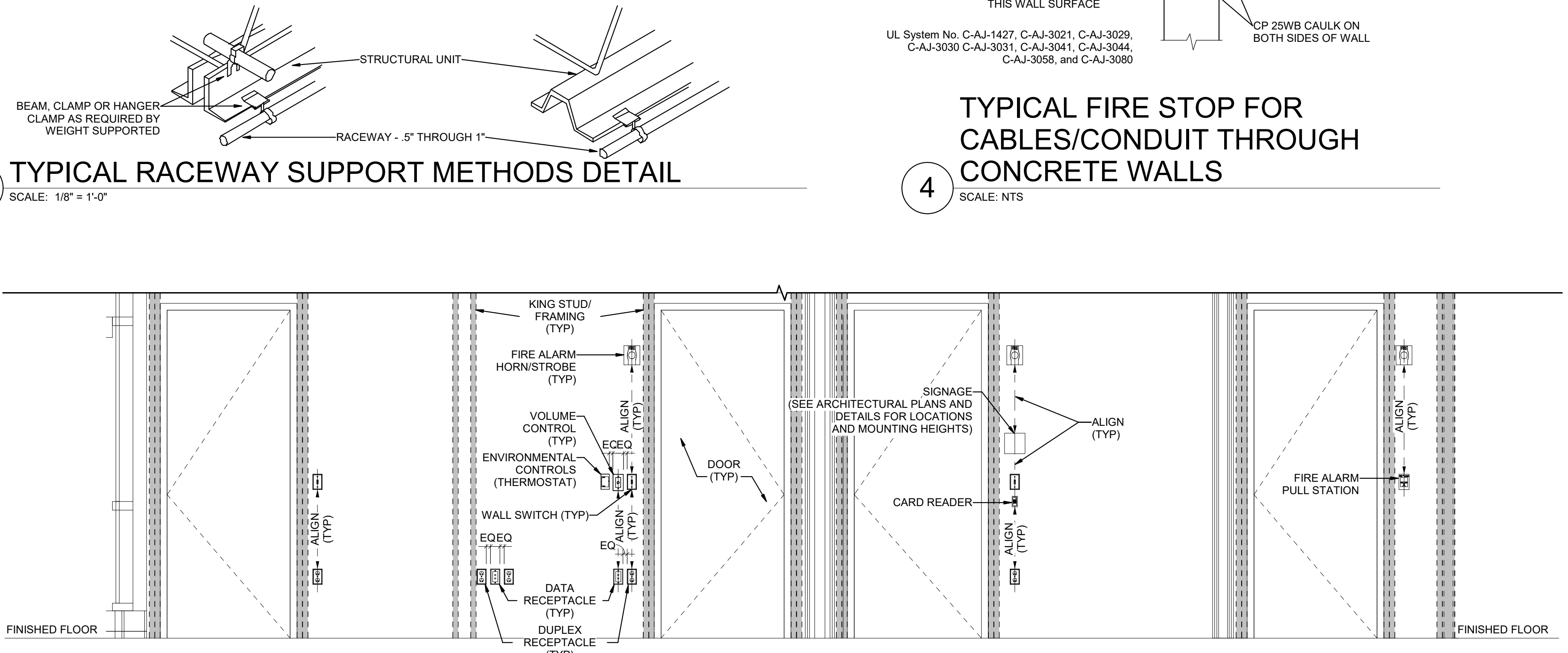
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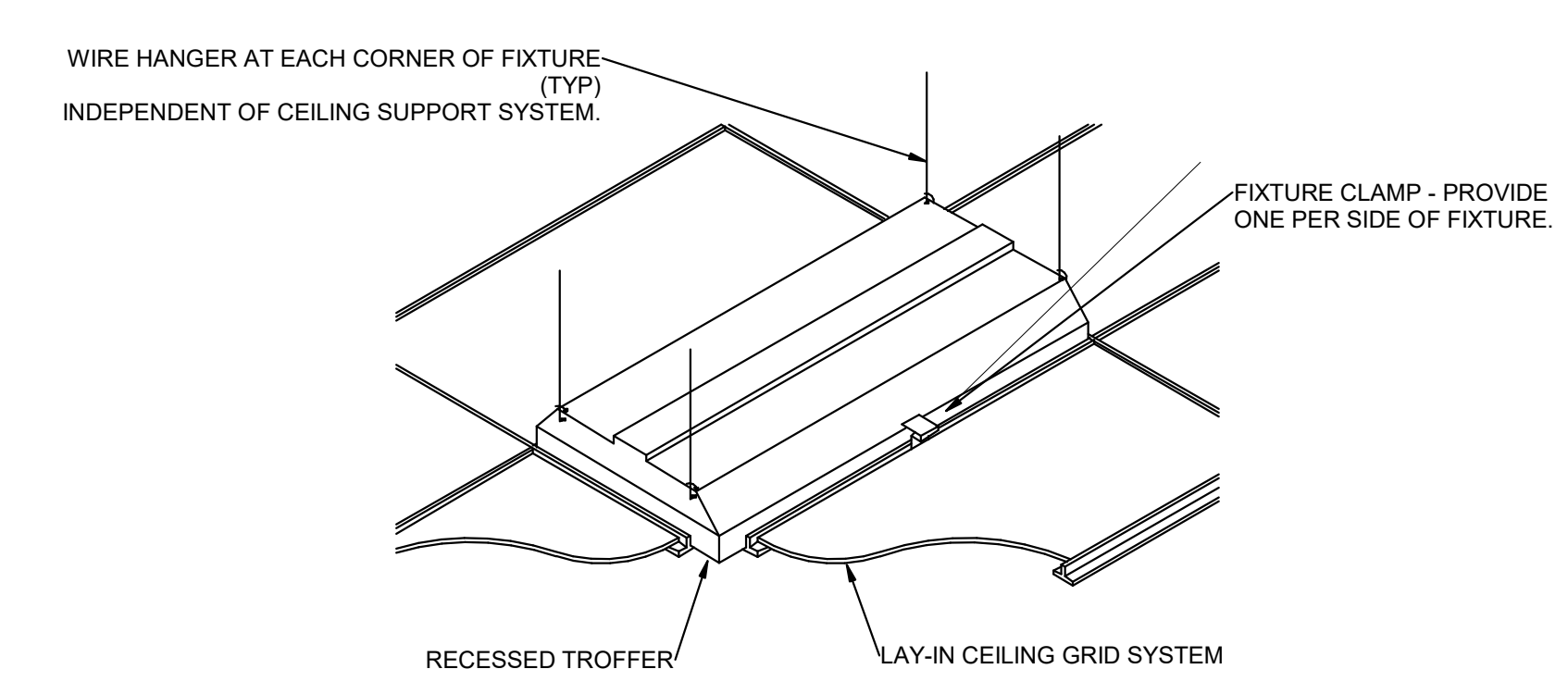
3 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
 SCALE: NTS

NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 18" FOR SOUND ATTENUATION.



2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
 SCALE: 1/2" = 1'-0"



1 RECESSED FIXTURE MOUNTING DETAIL
 SCALE: NTS

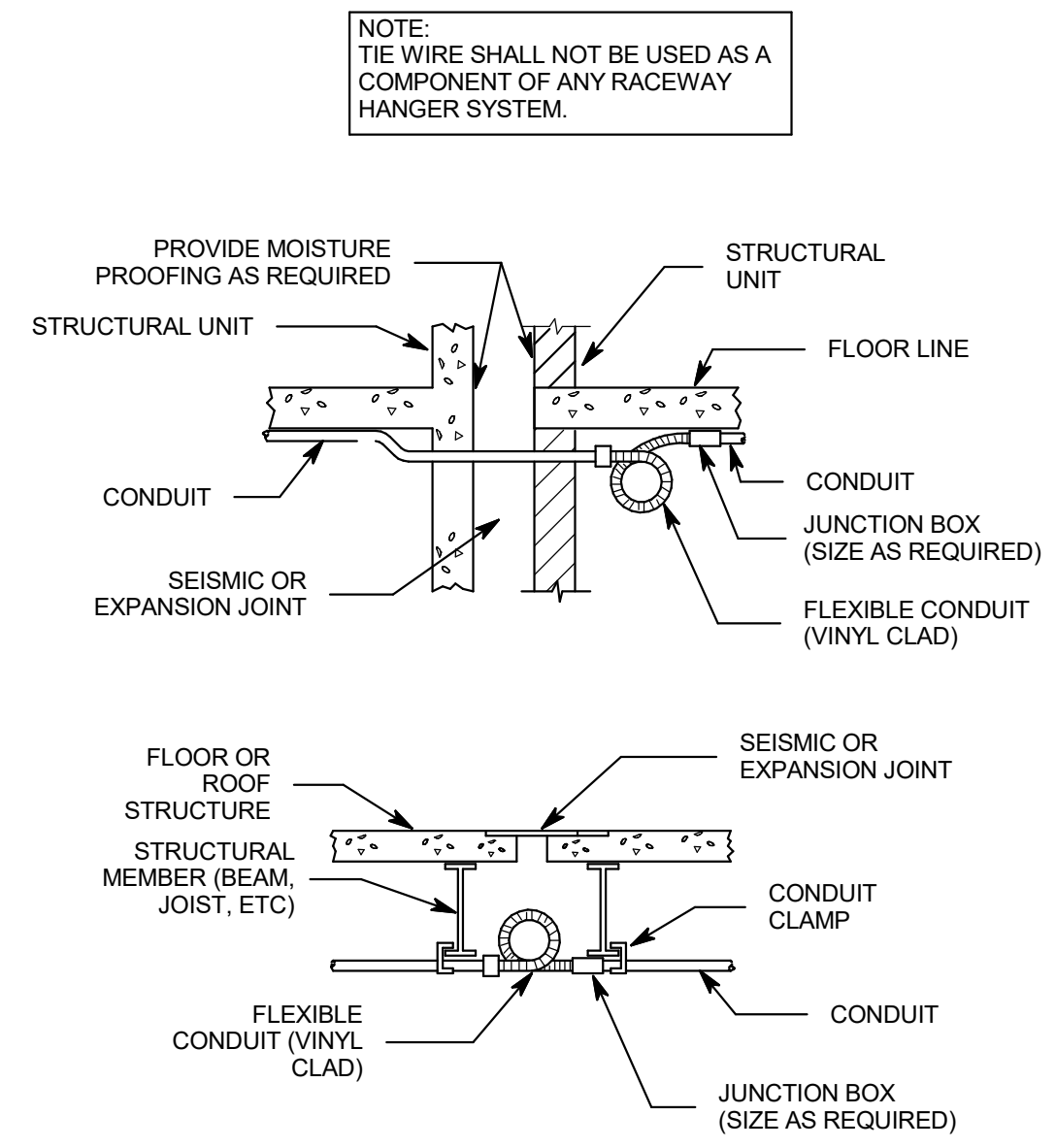
REVISIONS

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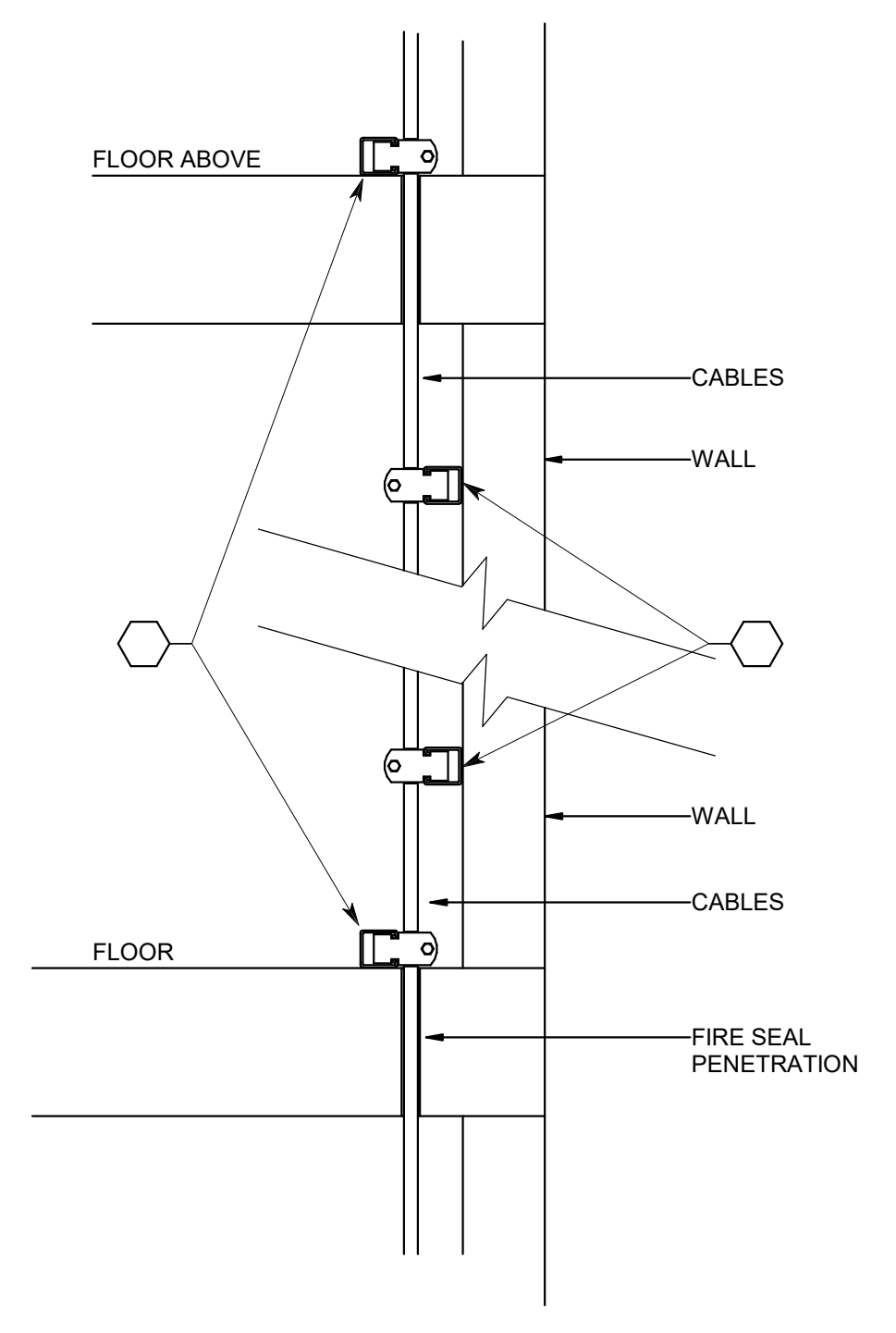
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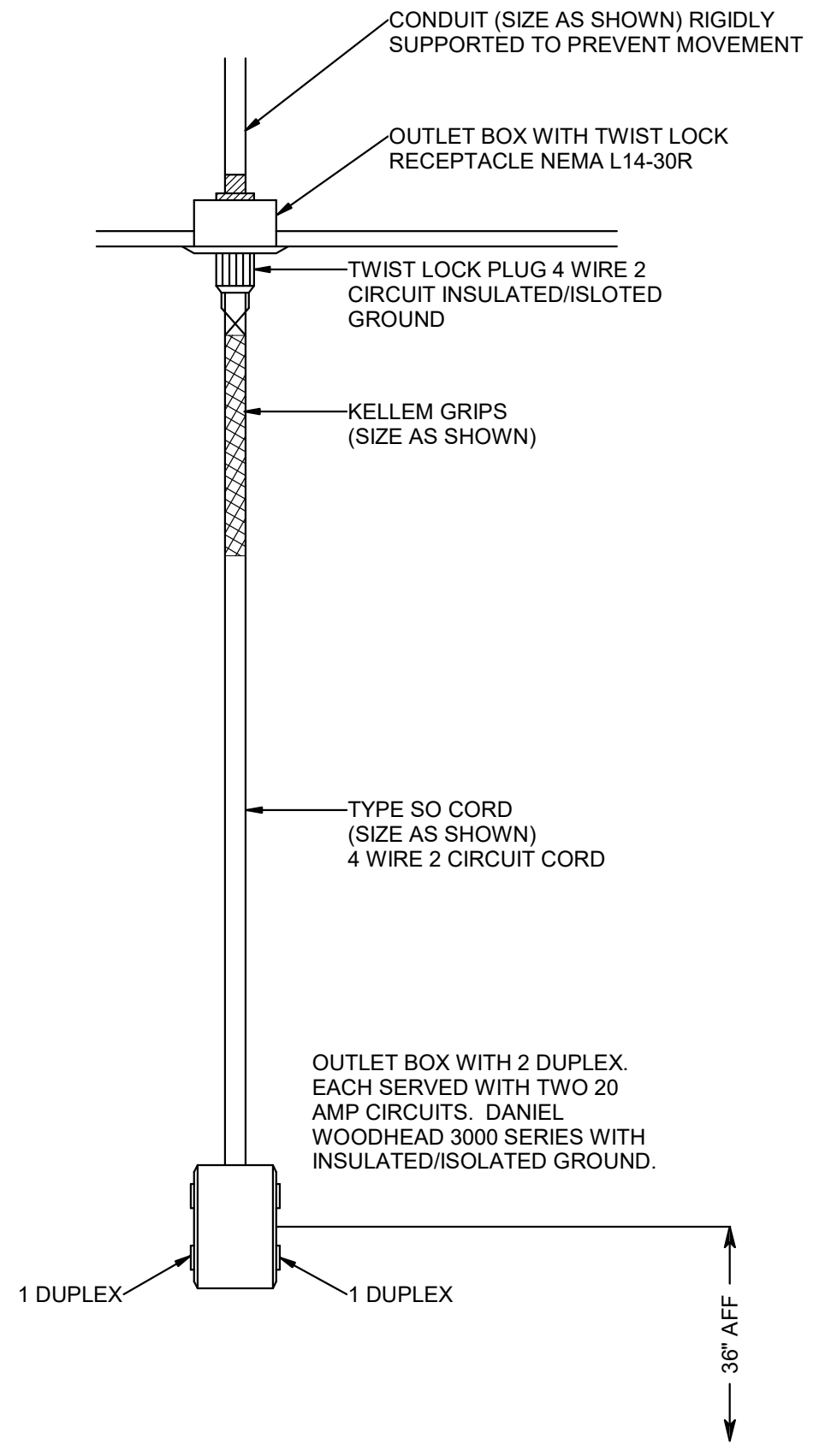
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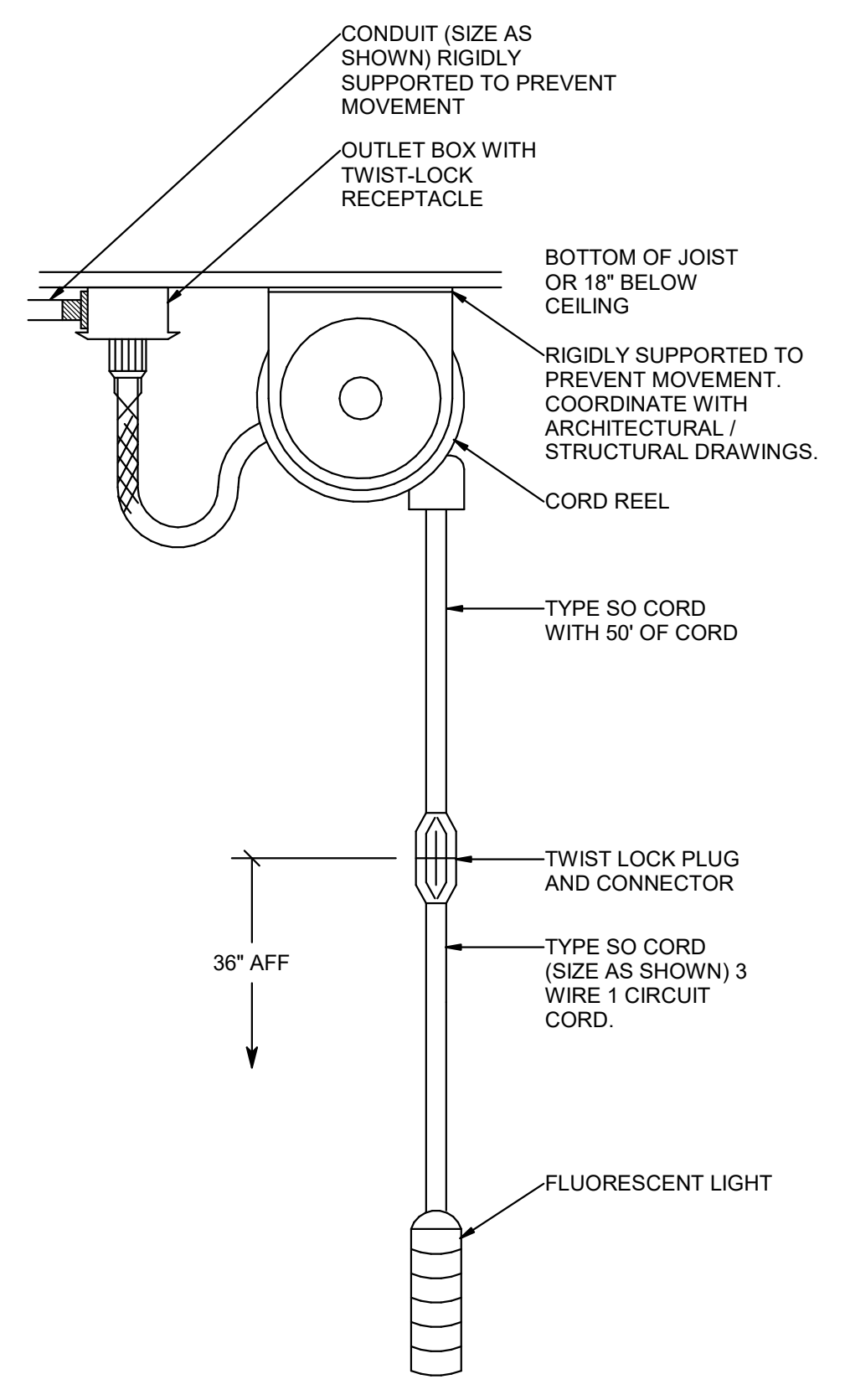
5 CONDUIT EXPANSION JOINT DETAIL
 SCALE: NTS



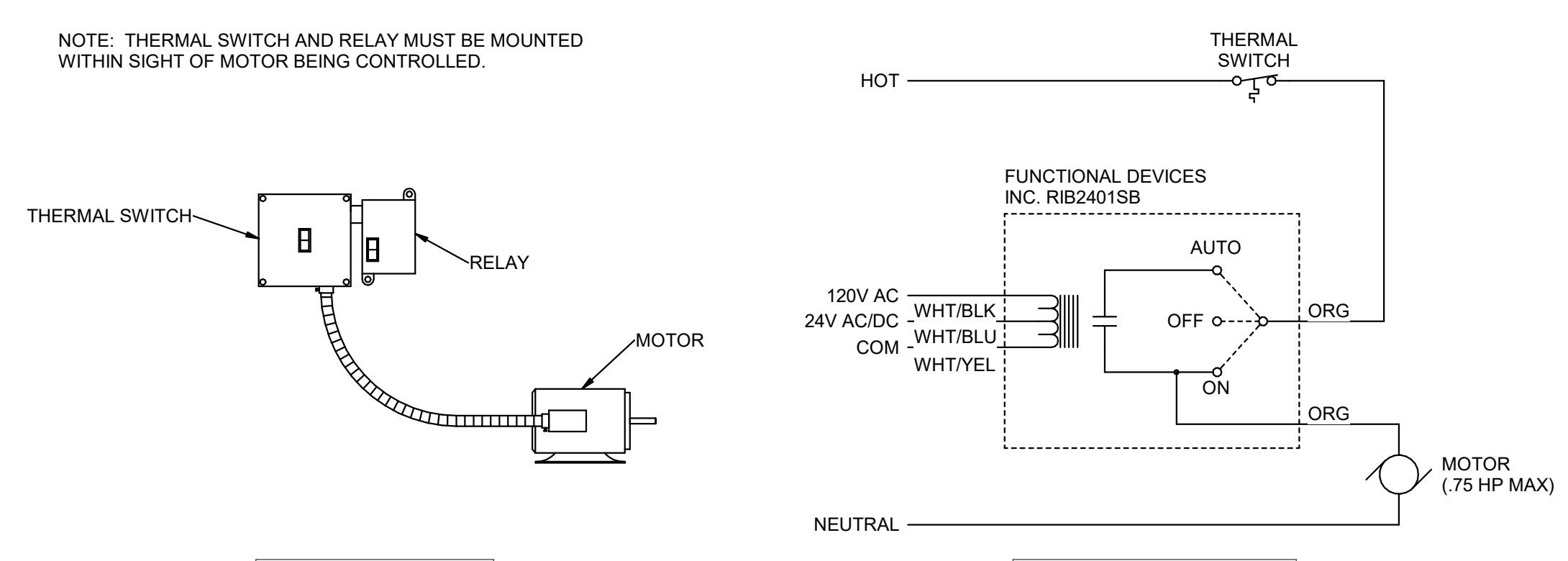
6 CABLE SUPPORT DETAIL
 SCALE: NTS



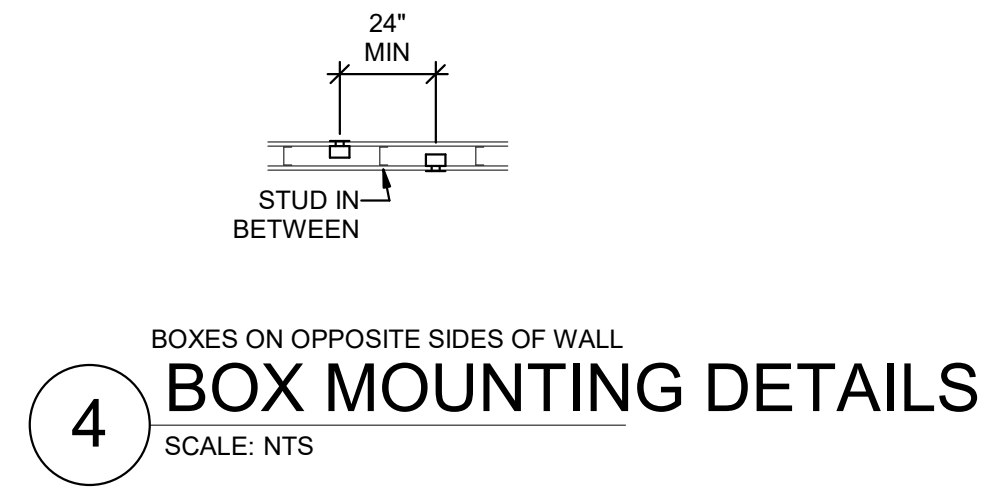
2 DROP CORD DETAIL (WITH OUTLET BOX)
 SCALE: NTS



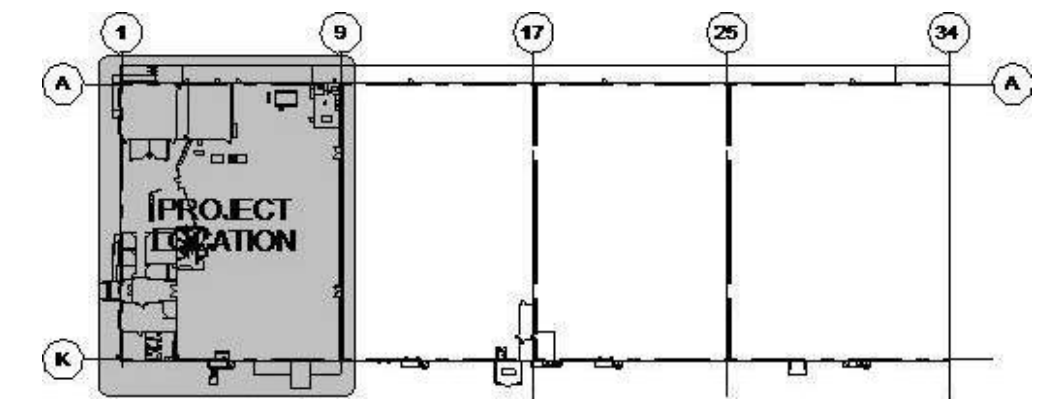
3 CORD REEL DETAIL
 SCALE: NTS



1 120V FRACTIONAL MOTOR CONTROL
 SCALE: NTS



4 BOX MOUNTING DETAILS
 SCALE: NTS



COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: DTC D5 COMPOSITE REMODEL
 Location: Clearfield, Utah
 Climate Zone: 5b
 Project Type: Alteration

Construction Site: CLEARFIELD, UT
 Owner/Agent:
 Designer/Contractor: Spencer Little, Spectrum Engineers, 324 State St, Suite 400, 84101, UT 84111, 801 4018495, scl@spectrum-engineers.com

Building Area	Floor Area
1-School/University - Nonresidential	13542

Envelope Assemblies

Envelope TBD. No envelope assemblies specified

Project Title: DTC D5 COMPOSITE REMODEL
 Data filename: P:\2019\20190992\Design\COMcheck\20190992 DTC D5 COMPOSITE REMODEL.cck
 Report date: 12/11/19
 Page 1 of 7

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3 [EL22] 1	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL23] 2	Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL24] 1	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27] 1	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6] 1	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.6 [EL26] 1	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL27] 1	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2 [EL28] 1	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.9 [EL29] 1	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Project Title: DTC D5 COMPOSITE REMODEL
 Data filename: P:\2019\20190992\Design\COMcheck\20190992 DTC D5 COMPOSITE REMODEL.cck
 Report date: 12/11/19
 Page 5 of 7

COMcheck Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: DTC D5 COMPOSITE REMODEL
 Project Type: Alteration

Construction Site: CLEARFIELD, UT
 Owner/Agent:
 Designer/Contractor: Spencer Little, Spectrum Engineers, 324 State St, Suite 400, 84101, UT 84111, 801 4018495, scl@spectrum-engineers.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-School/University	13542	0.81	10969
		Total Allowed Watts = 10969	

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt.	E (C X D)
School/University (13542 sq.ft.)				
LED 1: Q24 High Bay Light, Other	1	12	39	468
LED 1 copy 1: S1 Strip Light, Other	1	6	35	210
LED 1 copy 2: T2 Strip Light, Other	1	24	35	840
		Total Proposed Watts =		1518

Interior Lighting PASSES

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: DTC D5 COMPOSITE REMODEL
 Data filename: P:\2019\20190992\Design\COMcheck\20190992 DTC D5 COMPOSITE REMODEL.cck
 Report date: 12/11/19
 Page 2 of 7

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3 C408.2.5 [F117] 1	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F118] 1	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F157] 1	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F116] 1	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133] 1	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Project Title: DTC D5 COMPOSITE REMODEL
 Data filename: P:\2019\20190992\Design\COMcheck\20190992 DTC D5 COMPOSITE REMODEL.cck
 Report date: 12/11/19
 Page 6 of 7

COMcheck Software Version 4.1.1.0
Inspection Checklist
 Energy Code: 2018 IECC

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] 1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: DTC D5 COMPOSITE REMODEL
 Data filename: P:\2019\20190992\Design\COMcheck\20190992 DTC D5 COMPOSITE REMODEL.cck
 Report date: 12/11/19
 Page 3 of 7

Project Title: DTC D5 COMPOSITE REMODEL
 Data filename: P:\2019\20190992\Design\COMcheck\20190992 DTC D5 COMPOSITE REMODEL.cck
 Report date: 12/11/19
 Page 7 of 7

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22] 1	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL18] 1	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounge/restrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sq.ft. that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL19] 2	Occupancy sensors control function in warehouses: In warehouses, the lighting in aislesways and open areas controlled with occupancy sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupancy sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL20] 1	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor area <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 [EL21] 1	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: DTC D5 COMPOSITE REMODEL
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 Page 4 of 7

ARCHITECT
SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com

PROFESSIONAL SEAL
 No. 7258099
 SPENCER C. LITTLE
 12-19-2019
 STATE OF UTAH

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 DATE: 12/11/19

PROJECT NAME:

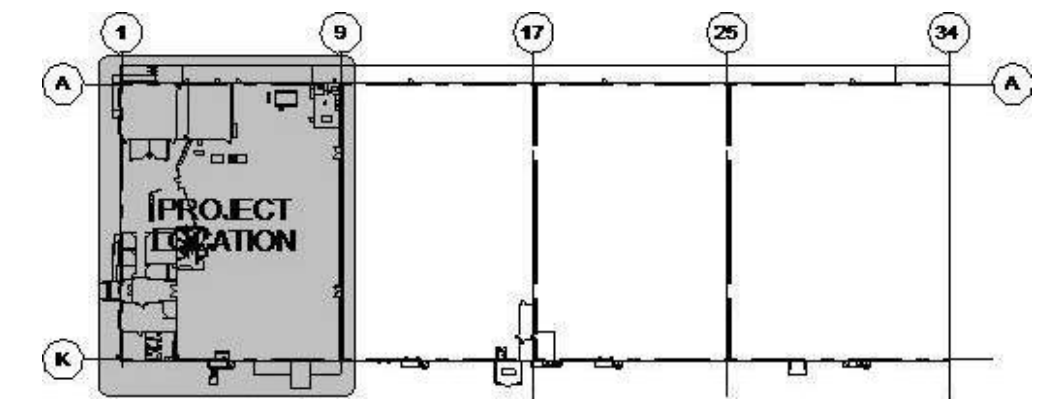
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 FREERPORT CENTER BUILDING D5
 COMPOSITES REMODEL

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1	12/19/19	CONSTRUCTION BID SET

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LIGHTING COMCHECK
 SHEET NUMBER: EE601



REVISIONS

NO.	DATE	DESCRIPTION

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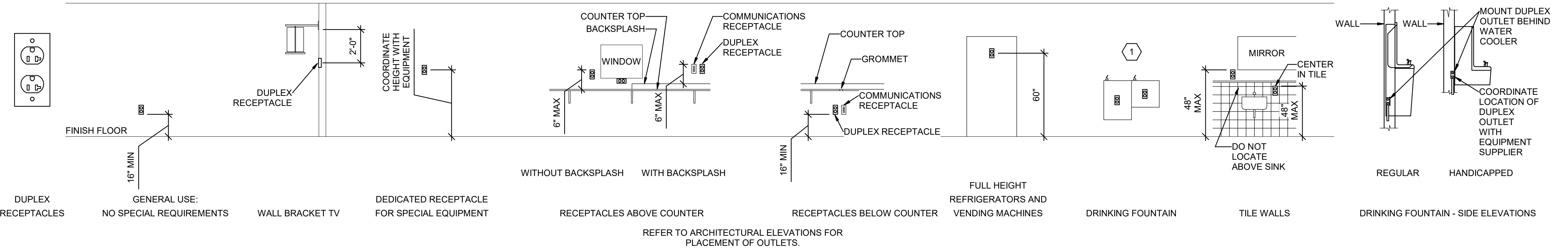
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GENERAL SHEET NOTES

- DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC.)
 - EQUIPMENT SHOP DRAWINGS.
 - FIELD INSTRUCTIONS.
- LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
- MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
- MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
- SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
- LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
- VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
- LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
- WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

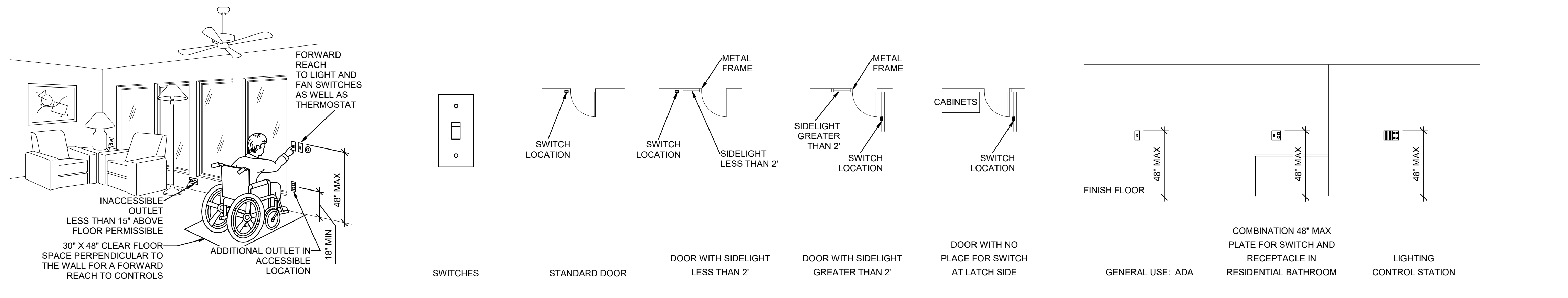
SHEET KEYNOTES

- LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
- LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
- LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
- LOCATE AT BOTTOM OF BEAMS IF $D/H < 1$ OR $W/H < 4$, OTHERWISE, LOCATE IN BEAM POCKET. FOR $D > 4$ REDUCE SPACING .33 PERPENDICULAR TO BEAMS.



E2 RECEPTACLE MOUNTING DETAILS

SCALE: NTS

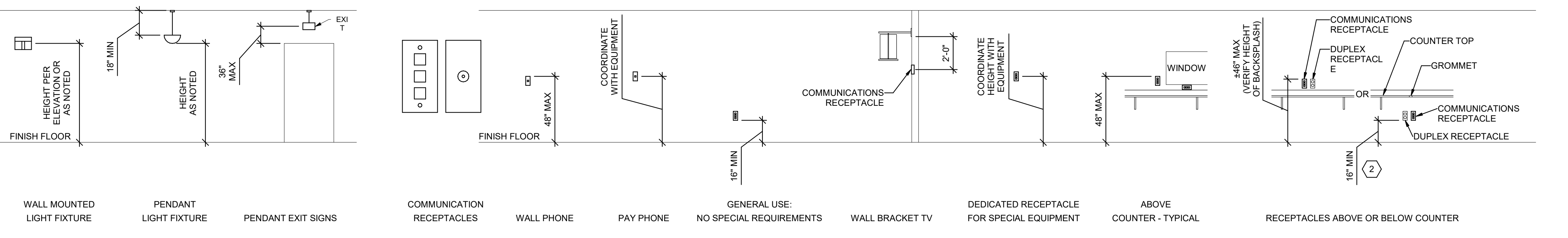


D2 ADA DETAIL

SCALE: NTS

D3 SWITCH MOUNTING DETAILS

SCALE: NTS

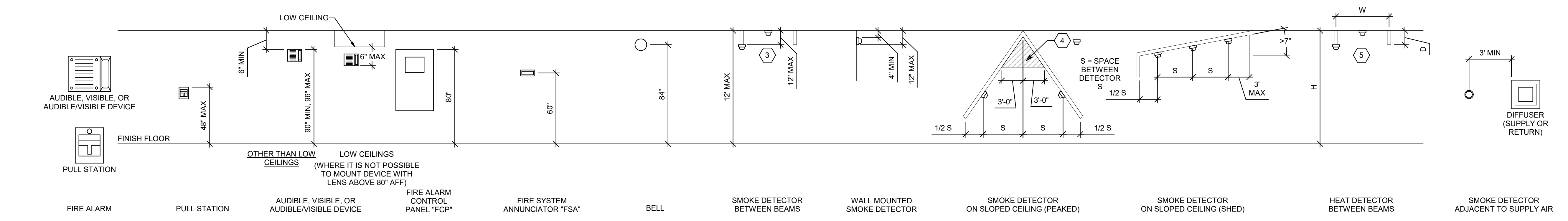


C2 LIGHTING MOUNTING DETAILS

SCALE: NTS

C3 COMMUNICATIONS MOUNTING DETAILS

SCALE: NTS



B1 FIRE ALARM MOUNTING DETAILS

SCALE: NTS

Last Printed: 12/19/2019 12:22:24 PM



1 LEVEL 1 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 10'-0"

GENERAL SHEET NOTES

- 1 LINE TYPES: THIN LINE HALF TONE IS EXISTING TO REMAIN, MEDIUM LINE DASHED IS TO BE DEMOLISHED OR REMOVED AND RELOCATED.
- 2 DISCONNECT ALL LINE VOLTAGE TO EQUIPMENT TO BE DEMOLISHED OR RELOCATED. FIELD VERIFY EXISTING CONDITIONS.
- 3 REMOVE ANY AND ALL ABANDONED RACEWAYS, CABLE, AND CONDUCTORS. REMOVE ANY AND ALL RACEWAYS, CABLE, AND CONDUCTORS THAT BECOME ABANDONED AS A RESULT OF THIS PROJECT.
- 4 REMOVE ALL ELECTRICAL IN WALLS, CEILING, AND FLOORS TO BE DEMOLISHED. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
- 5 EXTEND AND MODIFY ALL EXISTING ELECTRICAL CONDUIT AND CONDUCTORS AS REQUIRED FOR ALL DEVICES, FIXTURES, AND EQUIPMENT THAT ARE TO REMAIN.
- 6 ALL EXISTING ELECTRICAL RACEWAYS, CONDUCTORS, AND CABLES IN WALLS, ABOVE CEILING, AND BELOW FLOORS THAT NEED TO BE MODIFIED, REMOVED, AND OR RELOCATED AS A RESULT OF THIS PROJECT SHALL BE MODIFY ACCORDINGLY AS REQUIRED FOR THE FINISHED CONDITIONS OF THE PROJECT.

ARCHITECT'S INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
1.801.298.1368 - f.801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
FREERPORT CENTER BUILDING D5
COMPOSITES REMODEL**

○ SHEET KEYNOTES

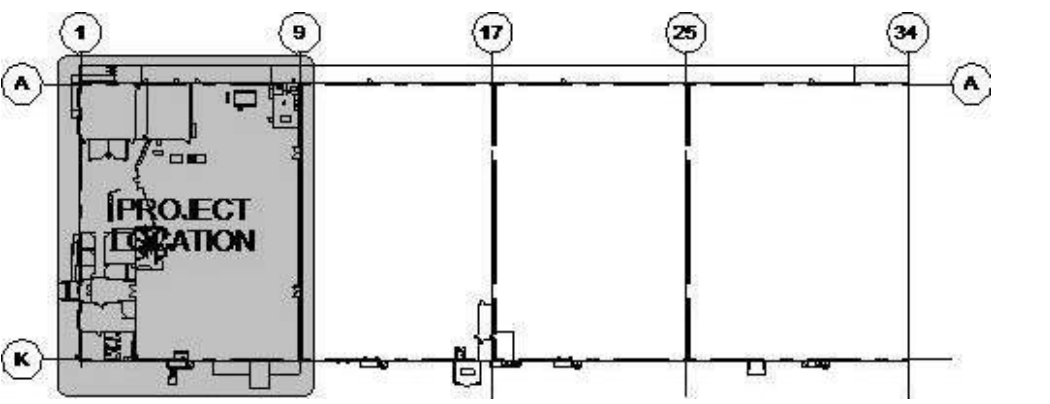
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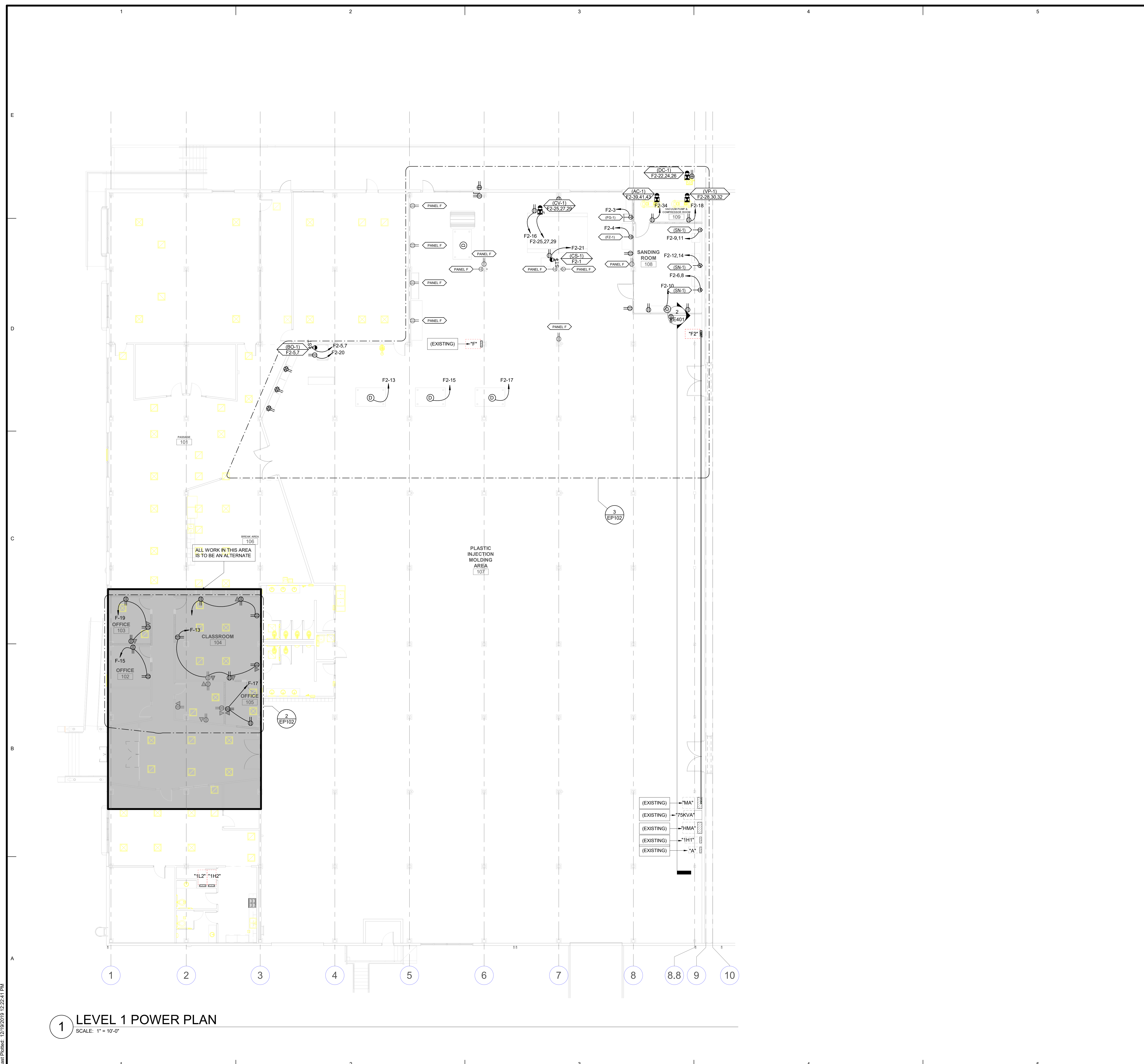
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SPE PROJECT #:	19-47
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DESIGNED BY:	SCL
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SHEET TITLE:
**LEVEL 1
ELECTRICAL
DEMOLITION PLAN**

SHEET NUMBER:
ED101





GENERAL SHEET NOTES

- 1 CONTRACTOR IS RESPONSIBLE FOR ALL LINE VOLTAGE AS PART OF THIS PROJECT. PROVIDE LINE VOLTAGE REQUIRED TO ALL SYSTEMS PROVIDED AS PART OF THIS PROJECT. COORDINATE WITH ALL OTHER DISCIPLINES AND DRAWINGS.
- 2 CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END EQUIPMENT AS PART OF THIS PROJECT.
- 3 CORE DRILL THE FLOOR FOR POKE THROUGH. COORDINATE EXACT LOCATION WITH ARCHITECT.
- 4 VERIFY FLOOR BOX, POWER POLE, AND POKE-THROUGH DEVICE LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH IN OR INSTALLATION.
- 5 ALL RACEWAYS SHALL BE CONCEALED IN WALLS, FLOORS, AND CEILING UNLESS OTHERWISE NOTED. INSTANCES WHERE EXPOSED OR SURFACE MOUNTED RACEWAYS IS REQUIRED A ROUTING SKETCH SHALL BE PROVIDED TO ARCHITECT AND ENGINEER. RACEWAY TYPE SHALL BE SELECTED BY ENGINEER. FINISH OF RACEWAY SHALL BE SELECTED BY ARCHITECT.
- 6 PROVIDE ELECTRICAL CONNECTIONS TO SYSTEMS FURNITURE. DESIGN IS BASED ON 1 CIRCUIT WIRE SYSTEM. VERIFY WIRING CONFIGURATION AND FEED POINT WITH SYSTEMS FURNITURE INSTALLER PRIOR TO INSTALLATION. COORDINATE WITH FURNITURE INSTALLER SUCH THAT CIRCUITS ARE UNIFORMLY DISTRIBUTED TO NO MORE THAN 2 WORKSTATIONS PER CIRCUIT AND EACH WORKSTATION ONLY HAVING AVAILABLE ITS ASSIGNED CIRCUIT. COPIERS OR PRINTERS LOCATED IN A GROUP OF WORKSTATIONS SHALL RECEIVE A DEDICATED CIRCUIT.
- 7 EACH WORK STATION IN THE SYSTEMS FURNITURE SHALL HAVE A MINIMUM OF 2 EACH POWER OUTLETS AND 1 EACH VOICE/DATA OUTLET. ADDITIONAL POWER AND VOICE/DATA OUTLETS SHALL BE COORDINATED PRIOR TO ROUGH-IN WITH OWNER.
- 8 PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANEL FOR ALL NEW CIRCUITS. FIELD VERIFY PANELBOARD TYPE AND BREAKER TYPE.
- 9 COORDINATE EXACT LOCATION OF ELECTRICAL CONNECTION POINT TO ROOF TOP UNITS AND ALL OTHER MECHANICAL EQUIPMENT TO ENSURE APPROPRIATE ROOF PENETRATION LOCATIONS.
- 10 PROVIDE ELECTRICAL CONNECTION TO MOTORIZED DOORS WITH ALL POWER AND CONTROL WIRING PER MANUFACTURERS WRITTEN INSTRUCTIONS. COORDINATE OPERATION OF DOORS WITH SECURITY, FIRE, AND SMOKE CONTROL SEQUENCES OF OPERATION.

ARCHITECT'S INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com

PROFESSIONAL STAMP

SPENCER C. LITTLE
 No. 7258099
 12-19-2019
 STATE OF UTAH

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PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
 FREEMONT CENTER BUILDING D5
 COMPOSITES REMODEL**

REVISIONS

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
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OWNER PROJECT #: 20073220
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SHEET TITLE:
LEVEL 1 POWER PLAN


SHEET NUMBER:
EP101

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GENERAL SHEET NOTES

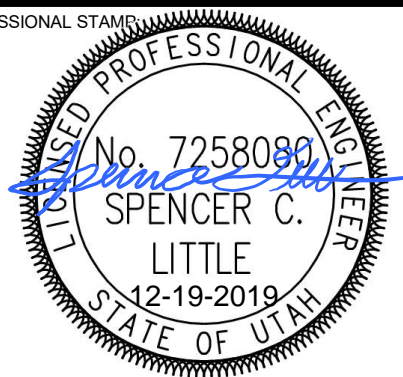
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- 3 CORE DRILL THE FLOOR FOR POKE THROUGH. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH IN OR INSTALLATION.
- 4 VERIFY FLOOR BOX, POWER POLE, AND POKE-THROUGH DEVICE LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH IN OR INSTALLATION.
- 5 ALL RACEWAYS SHALL BE CONCEALED IN WALLS, FLOORS, AND CEILING UNLESS OTHERWISE NOTED. INSTANCES WHERE EXPOSED OR SURFACE MOUNTED RACEWAYS IS REQUIRED A ROUTING SKETCH SHALL BE PROVIDED TO ARCHITECT AND ENGINEER. RACEWAY TYPE SHALL BE SELECTED BY ENGINEER. FINISH OF RACEWAY SHALL BE SELECTED BY ARCHITECT.
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ARCHITECT'S INFORMATION



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com

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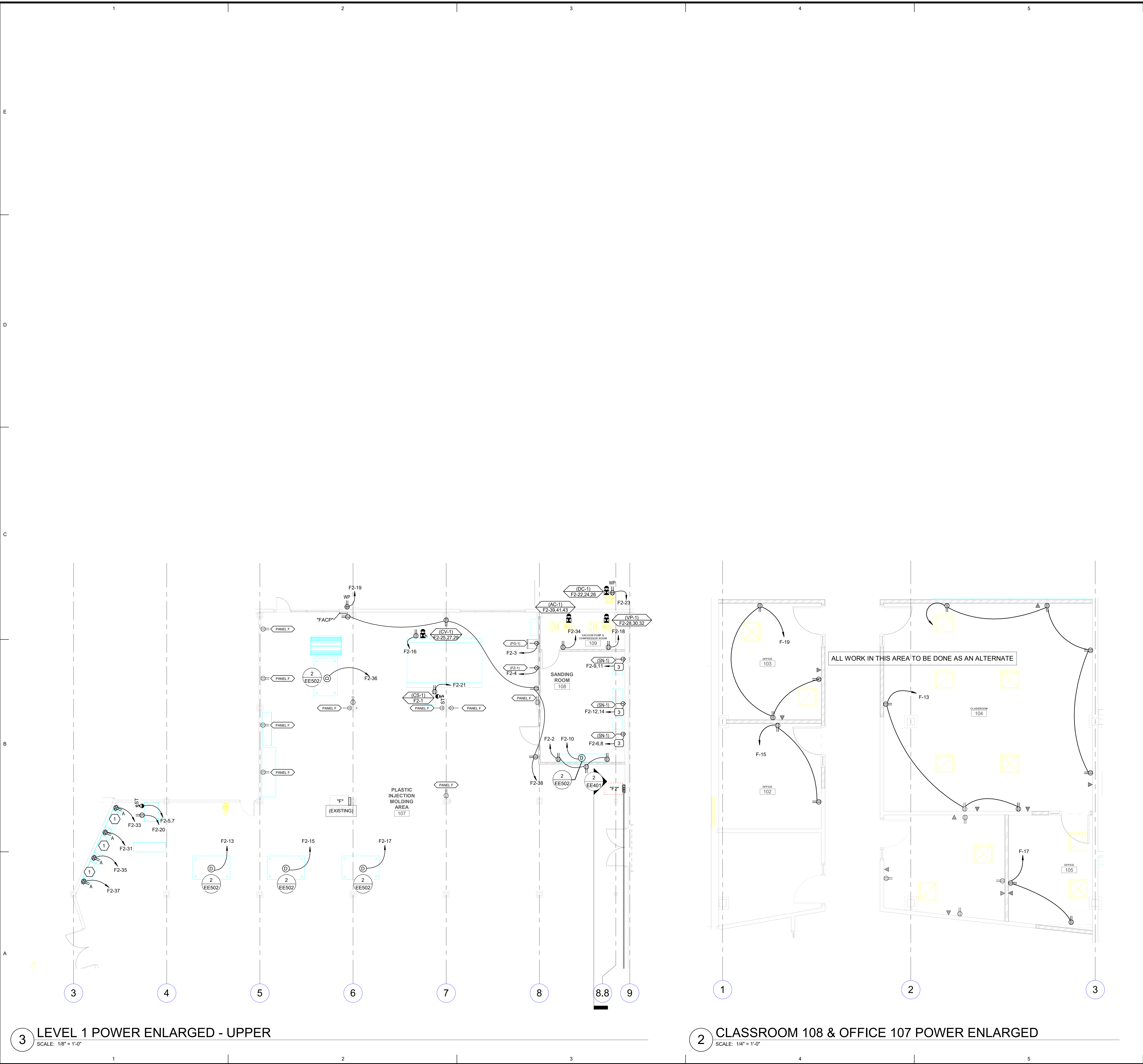


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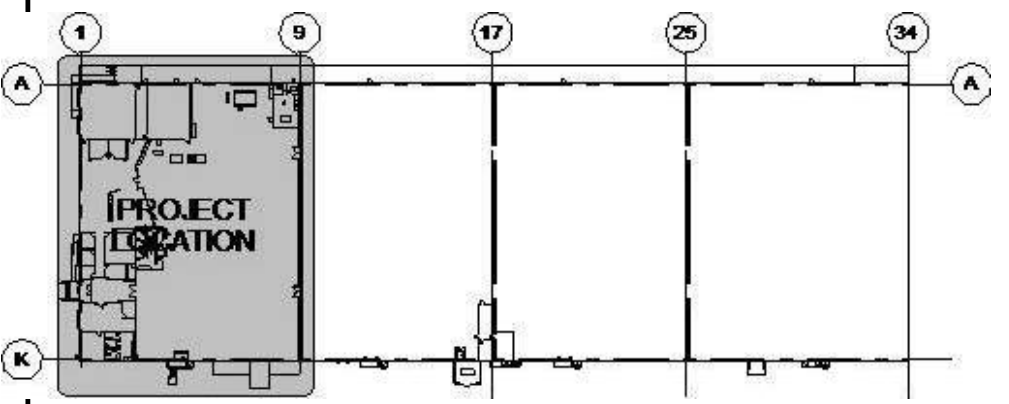
SHEET KEYNOTES

- 1 INSTALL RECEPTACLES ABOVE COUNTER- TYPICAL.



3 LEVEL 1 POWER ENLARGED - UPPER
 SCALE: 1/8" = 1'-0"

2 CLASSROOM 108 & OFFICE 107 POWER ENLARGED
 SCALE: 1/4" = 1'-0"



PROJECT NAME

**2019 DAVIS TECHNICAL COLLEGE
 FREERPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

REVISIONS

NO.	DATE	DESCRIPTION
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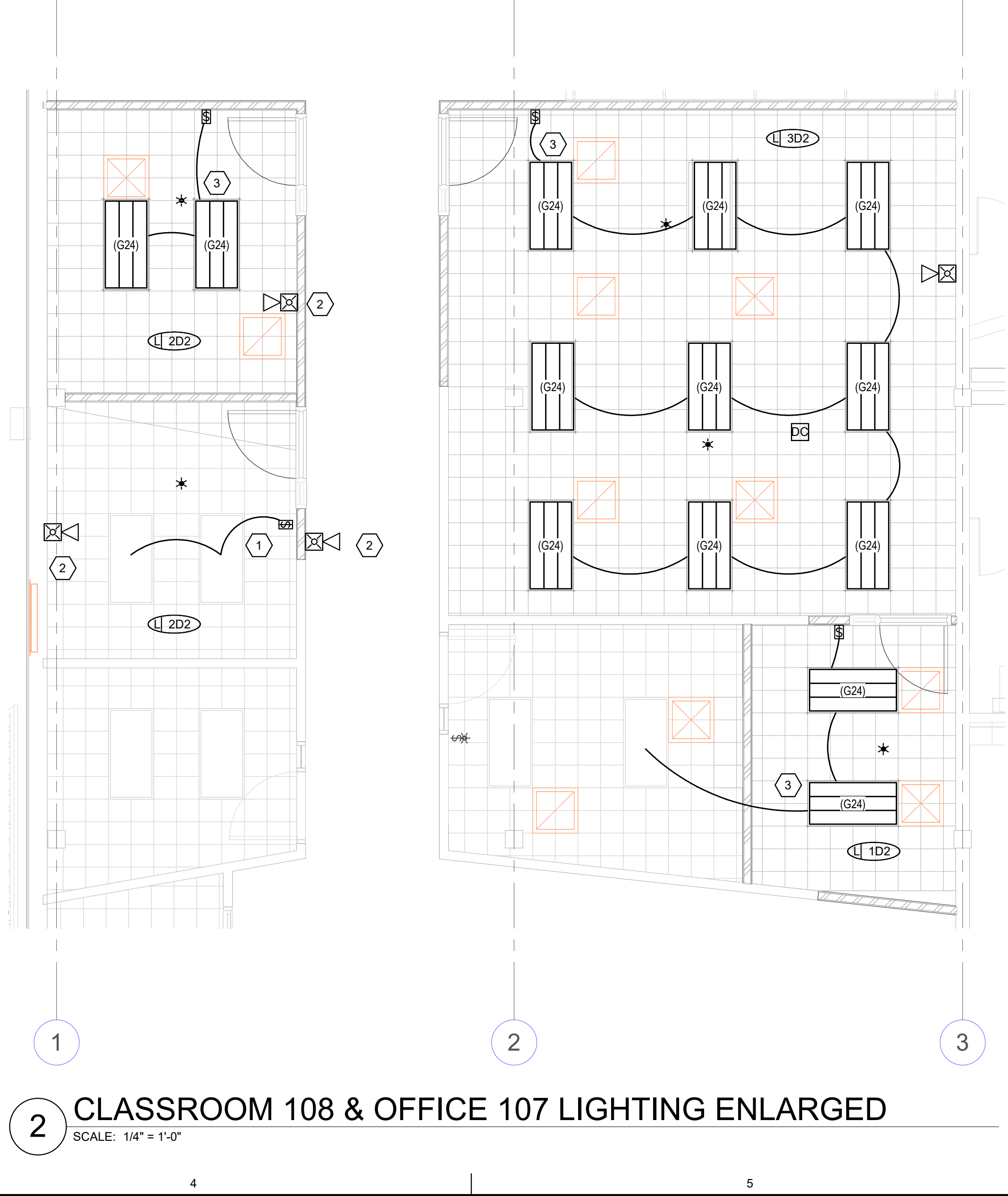
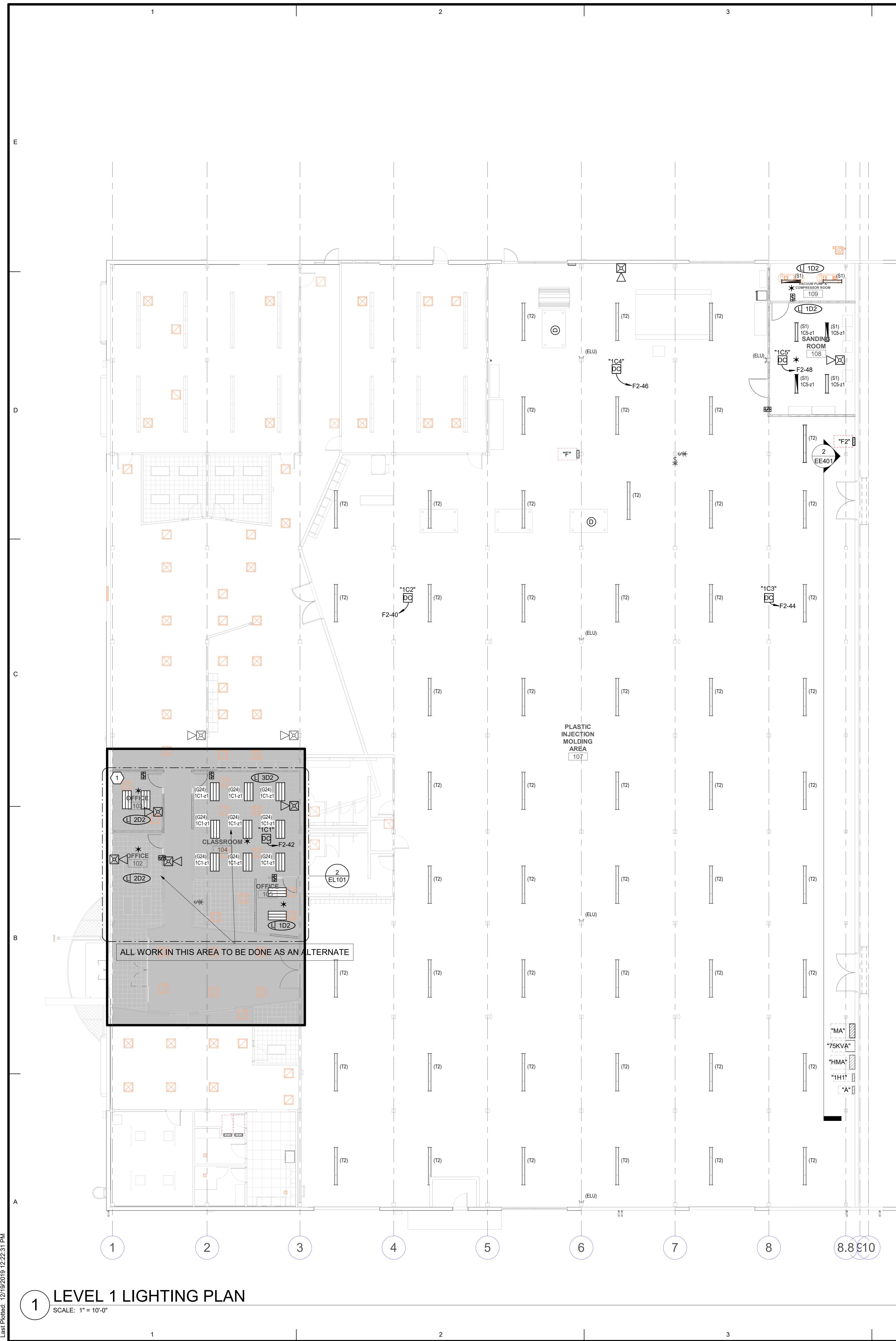
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**LEVEL 1 ENLARGED
 POWER PLAN**

SHEET NUMBER

EP102

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- ### GENERAL SHEET NOTES
- CENTER ALL CEILING MOUNTED LIGHT FIXTURES AND DEVICES SHALL BE CENTERED IN CEILING TILE, UNLESS OTHERWISE NOTED.
 - CIRCUIT ALL EXIT SIGNS TO NEAREST UNSWITCHED LEG OF EMERGENCY LIGHTING CIRCUIT.
 - ALL ENCLOSED SPACES SHALL HAVE MANUAL ON LIGHTING CONTROL WITH AUTOMATIC OFF-VIA DUAL TECHNOLOGY SENSOR OR TIME CLOCK. SENSOR(S) SHALL PROVIDE A MINIMUM OF 90 PERCENT COVERAGE IN SPACE. PROVIDE ADDITIONAL SENSORS AS REQUIRED. COMPLY WITH 2015 IECC SECTION C405.
 - PROVIDE DAYLIGHTING CONTROL FOR ALL LIGHTING WITH IN DAYLIGHT ZONE AS DEFINED BY THE 2015 IECC. PROVIDE DIMMING LIGHTING FIXTURES AND DAYLIGHT SENSOR PHOTOCELL.
 - INSTALL LIGHT FIXTURES INLINE AND CENTERED.
 - COORDINATE ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT.
 - ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES.
 - COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGTH OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGER COVE/CLOUD LIGHTING OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
 - LOCATE ALL VACANCY/OCCUPANCY SENSORS MINIMUM OF 6 FEET FROM SUPPLY AIR DIFFUSERS AND 3 FEET FROM RETURN AIR DIFFUSERS.
 - ALL CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY WITH BUILT IN LIGHT LEVEL SENSOR AND BASH/VAC ISOLATED RELAY.
 - ALL LIGHT FIXTURES THAT PENETRATE FIRE RATED SURFACE SHALL BE IN A FIRE RATED ASSEMBLY OR BE PROVIDED WITH A FIRE RATED ASSEMBLY TO MAINTAIN A FIRE RATE SURFACE.
 - LOCATE ALL ROOM CONTROLLER IN ACCESSIBLE CEILING OR IN THE ELECTRICAL ROOM.

- ### COMMISSIONING NOTES
- THE CONTRACTOR SHALL PERFORM OR SHALL ENGAGE A PARTY TO PERFORM THE FOLLOWING TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE.
 - ENSURE THAT THE LIGHTING CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS COMPLY WITH 2015 IECC SECTION C408.3.
 - ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - WHERE REQUIRED BY THE CODE OFFICIAL AN APPROVED PARTY INDEPENDENT FROM THE DESIGN OR CONSTRUCTION OF THE PROJECT SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF 2015 IECC SECTION C405.
 - PROVIDE THE FOLLOWING PROCEDURES FOR EACH OCCUPANT SENSOR, TIME SWITCH, PROGRAMMABLE SCHEDULE CONTROL, PHOTOSENSOR, AND DAYLIGHTING CONTROL.
 - CONFIRM THAT THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENTS FOR THE OCCUPANT SENSOR'S YIELD ACCEPTABLE PERFORMANCES.
 - CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
 - CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR THE PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

- ### SHEET KEYNOTES
- CIRCUIT EXISTING LIGHTS TO NEW LIGHTING CONTROL AS SHOWN.
 - CIRCUIT NEW FIRE ALARM DEVICE TO EXISTING INDICATING (NOTIFICATION) LOOP WITH CAPACITY. FIELD VERIFY EXISTING CONDITIONS. PROVIDE ADDITIONAL BATTERY AND POWER SUPPLIES AS REQUIRED FOR THE ADDITION OF NEW DEVICE INTO THE CIRCUIT.
 - CIRCUIT NEW LIGHT TO EXISTING CIRCUIT. USE SWITCH LEG TO ISOLATE LIGHTS IN SPACE FROM OTHER SPACE.

REVISIONS

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1	12/19/19	CONSTRUCTION BID SET

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 SPE PROJECT #: 19-47
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SHEET TITLE:
LEVEL 1 LIGHTING PLAN

SHEET NUMBER:
EL101

ARCHITECTS INFORMATION




SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 1.801.298.1368 - f.801.298.2192
 info@spe-architect.com
 www.spe-architect.com

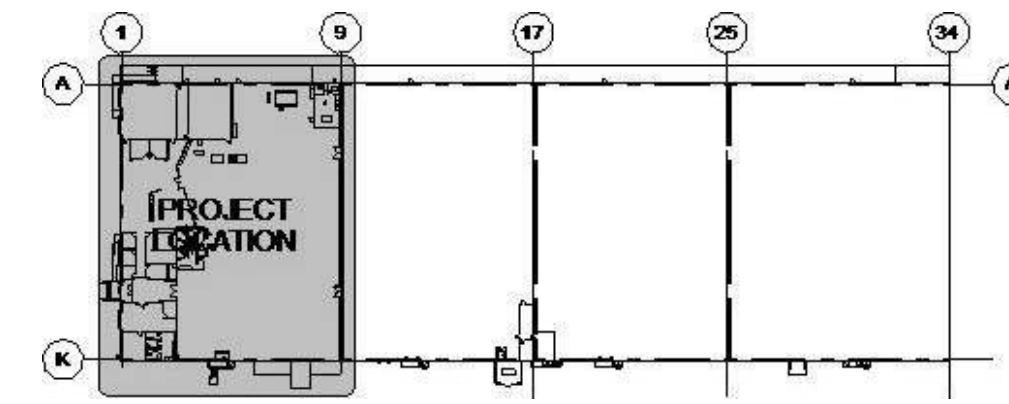
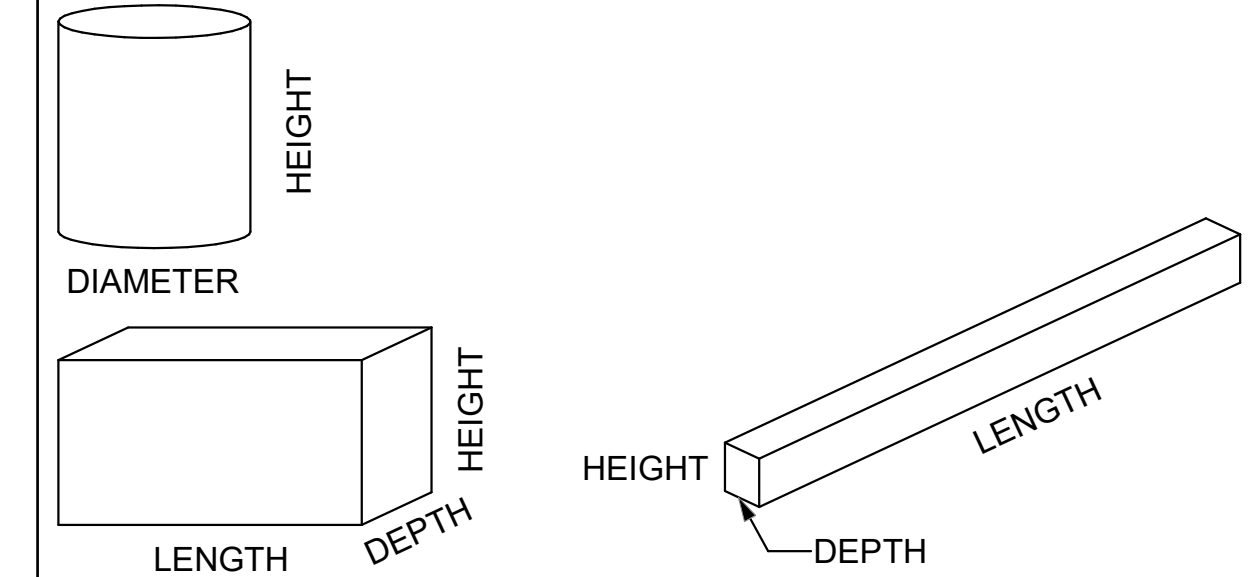
PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
 FREERPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

Last Pooled: 12/19/2019 12:23:31 PM

INTERIOR LIGHTING FIXTURE SCHEDULE																							
ABBREVIATIONS										GENERAL NOTES													
MOUNTING B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT PL - POLE R - RECESSED S - SURFACE W - WALL			LUMINAIRE OPTIONS ARHR - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EOC - EARTHQUAKE CLIPS F - FURRING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCELL SWITCH QRS - QUARTZ RESTRIKE ST - STAIR WGS - WIRE GUARD WL - WET LOCATION			FINISH MW - MATTE WHITE BL - BLACK SL - SILVER GL - GOLD CL - CLEAR PW - PAINTED WHITE EA - EXTRUDED ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST CBA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 209D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED			DIFFUSER/LENS #A - ACRYLIC #THICK #DA - ACRYLIC #THICK (OPAL) GC - GLASS (CLEAR) GO - GLASS (OPAL) GF - GLASS (FROSTED) SOL - SOFT GLOW LENS HPL - HIGH PERFORMANCE LENS DO - DROP OPAL COL - CONVEX GLASS LENS S - SATIN LENS			REFLECTOR OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FER - FULL DEPTH REFLECTOR DS - DIFFUSE (SEMI SPECULAR) SILVER LI - LOW RIDGE/CENT IR - IRRADIANT SL - SILVER GL - GOLD CA - CLEAR ALZAK			NOTES 1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPLOYER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. 3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING. 4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS. 9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER.								
ID	IMAGE	DESCRIPTION	NOMINAL SIZE				MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)			
			LENGTH	DEPTH	HEIGHT	DIAMETER/APERTURE														BASIS OF DESIGN	OPTION 2	OPTION 3	OPTION 4
(ELU)		EMERGENCY LIGHTING UNIT: WALL/CEILING MOUNTED DUAL HEAD, ADJUSTABLE, LED, 90 MINUTES OF ILLUMINATION VIA BATTERY	12"	5"	3"	4"	WS	LED	4100K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	10	SCBA	500	HPL	SS	-	-	LITHONIA (ELM2 LED SD FID)	DUAL-LITE (LZ 20 N I 03L)	COOPER LIGHTING (GU2)	THOMAS&BETTS (IC-2)
(G24)		2X4 VOLUMETRIC TROFFER HIGH PERFORMANCE; LAY IN, LED	48"	24"	4"	-	CR	LED	4100K	80	LED DRIVER (0-10V DIMMING)	120/277	39	SCBA	4000	HPL	PR	-	-	LITHONIA (2VTL)	PINNACALE (AD24A-4034-G1-U NV-1D-W)	METALUX (24CZ-LD4-34-UN V-L840-CD1-U)	COLUMBIA (LTRE24-40HLG-R FA-U)
(S1)		STRIP LIGHT; LED; LENS, LOW PROFILE	48"	3"	3"	-	C/P	LED	4100K	80	LED DRIVER (0-10V DIMMING)	120/277	35	SCBA	3000	HPL	LENS	-	-	LITHONIA (ZL1D)	DAYBRITE (LF 4 EZ)	METALUX (SNLED)	COLUMBIA (LCL)



LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES	PROJECT NOTES																
--- LINE VOLTAGE WIRING - - - 0-10V WIRING - - - - CAT5E CABLING - - - - WIRING BY OTHERS ○ TYP SEGMENT NETWORK CABLING	1. WATTSTOPPER (BASIS OF DESIGN) 2. HUBBEL BUILDING AUTOMATION 3. EATON LIGHTING CONTROLS 4. nLIGHT 5. LUTRON	1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE	1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST. 5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS																	
ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES	
1D2		TIME ON AT 6AM MON-SAT, CAN MANUAL OVER-RIDE ON FOR 2HRS	TIME OFF AT 1AM DAILY, BLINK LIGHTS 10 MIN WARNING	DIMMING 0-10V		15	RELAY CLOSED ON OCCUPANCY		YES	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-ON/RAISE/ BOTTOM-OFF/LOWER										
2D2		MANUAL OR TIMECLOCK AT 6AM MON-SAT	TIME OFF AT 6PM DAILY, BLINK LIGHTS 10 MIN WARNING	DIMMING 0-10V		15	RELAY CLOSED ON OCCUPANCY		YES	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-ON/RAISE/ BOTTOM-OFF/LOWER	FUNCTION: PRESS-PRESE T SCENE #01 ZONE "a" 0% FOR DIMMING LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESE T SCENE #02 ZONE "a" 0% ZONE "b" 50% ZONE "c" 100% FOR DIMMING LABEL ID: "PRE #2"	FUNCTION: PRESS-SELEC T ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELEC T ZONE "b" FOR DIMMING LABEL ID: "ZONE b"						
3D2		TIME ON AT 6AM MON-SAT, CAN MANUAL OVER-RIDE ON FOR 2HRS	TIME OFF AT 6PM DAILY, BLINK LIGHTS 10 MIN WARNING	DIMMING 0-10V		15	RELAY CLOSED ON OCCUPANCY		YES	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-ON/RAISE/ BOTTOM-OFF/LOWER	FUNCTION: PRESS-PRESE T SCENE #01 ZONE "a" 0% ZONE "b" 50% ZONE "c" 100% FOR DIMMING LABEL ID: "PRE #1"	FUNCTION: PRESS-SELEC T ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELEC T ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	FUNCTION: PRESS-SELEC T ZONE "c" FOR DIMMING LABEL ID: "ZONE c"						

ARCHITECTS INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
 108 West Center Street
 Bountiful, Utah 84010
 info@spe-architect.com
 www.spe-architect.com

PROFESSIONAL STAMP

CODE OFFICIAL STAMP

PROJECT NAME:
**2019 DAVIS TECHNICAL COLLEGE
 FREEPORT CENTER BUILDING D5
 COMPOSITES REMODEL**

REVISIONS

NO.	DATE	DESCRIPTION

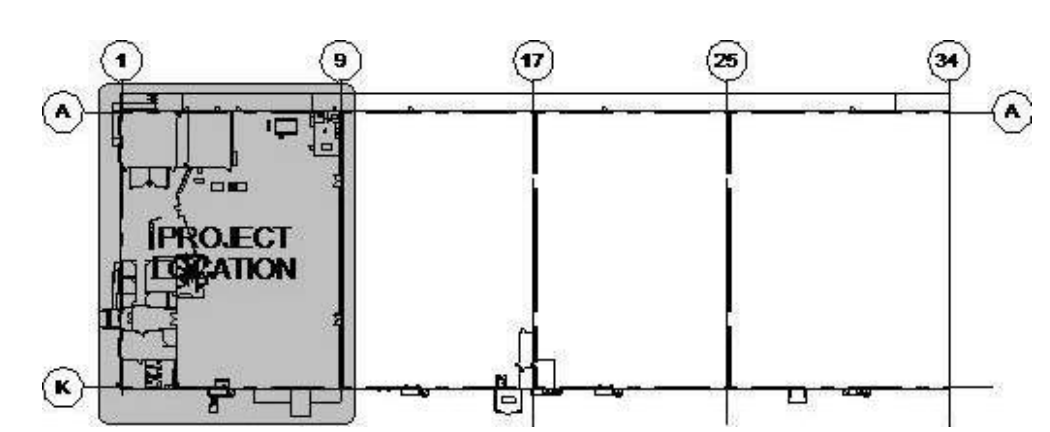
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 CHECKED BY: SCL
 DESIGNED BY: SCL
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SHEET TITLE:
LIGHTING CONTROL DETAILS

SHEET NUMBER:
EL603



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SHEET TITLE
TELECOM DETAILS

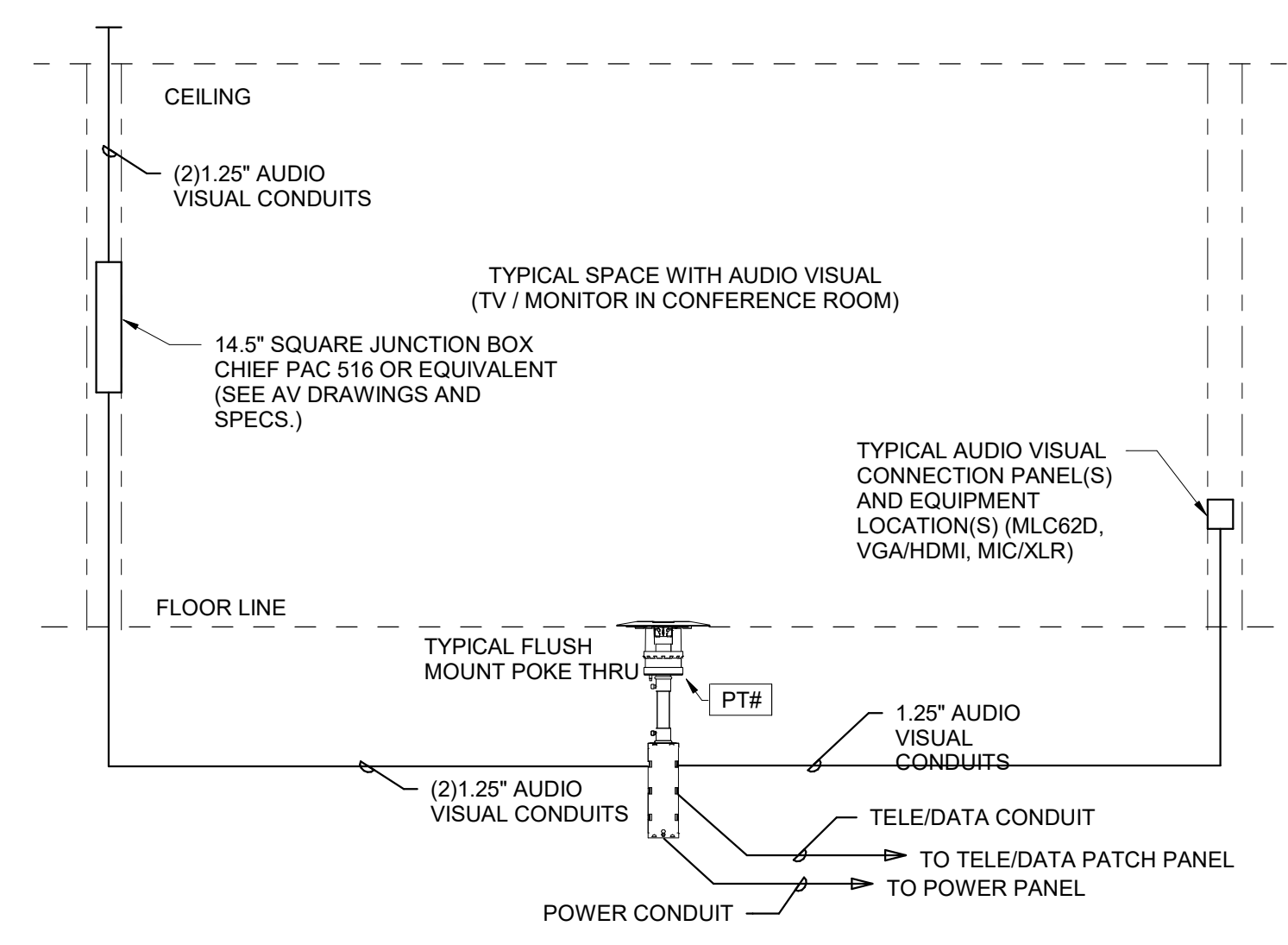
SHEET NUMBER
ET501

VOICE-DATA ROUGH-IN SCHEDULE

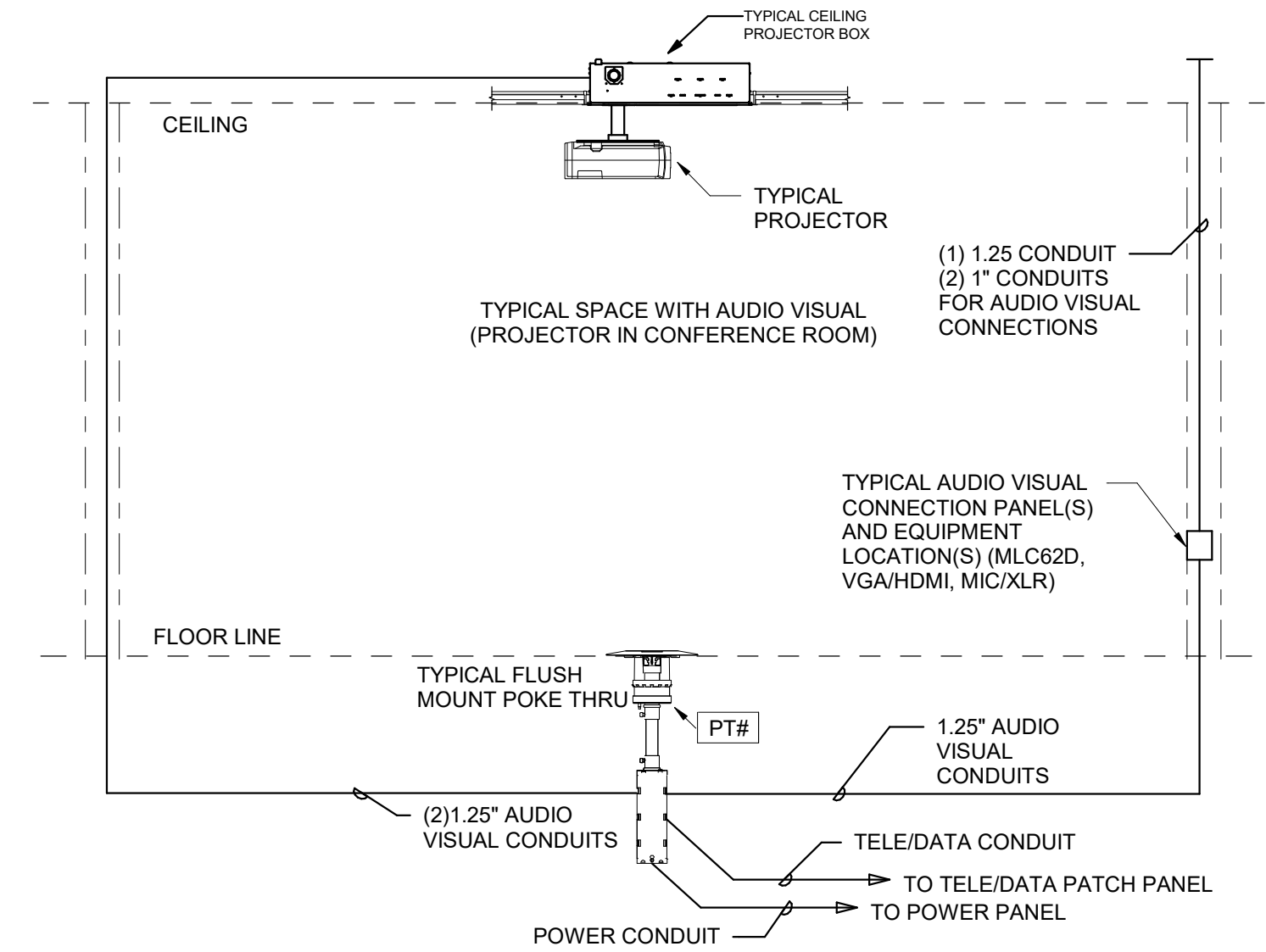
ELECTRONIC SYSTEMS: REFER TO DIVISION 26 SPECIFICATIONS AND WIRING DEVICE SCHEDULES FOR INSTALLATION REQUIREMENTS. MOUNTING HEIGHTS SHOWN ARE TYPICAL HEIGHTS. REFER TO DRAWINGS, ARCHITECTURAL ELEVATIONS, DRAWINGS AND SPECIFICATIONS FOR ACTUAL MOUNTING HEIGHTS.

SYMBOL	MOUNTING	DESCRIPTION	ROUGH-IN MATERIALS
▽ E	WALL, VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT	EMERGENCY PHONE OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL SWITCH HEIGHT, OR AS NOTED. VERIFY ROUGH-IN PRIOR TO INSTALLATION. PROVIDE VIKING MODEL 1600-02A.
▽ (#) (A)	WALL	DATA OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL SWITCH HEIGHT, OR AS NOTED. (A) INDICATES ABOVE COUNTER.
▽ S	WALL/RACK	AV RACK OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH DOUBLE GANG MUD RING.
▽ F	FURNITURE	FURNITURE OUTLET	COORDINATE WITH FURNITURE PROVIDED
▽ C	ON CEILING DECK IN ACCESSIBLE CEILING AREAS, AND FLUSH IN CEILING IN HARD-LID CEILING AREAS	DATA OUTLET, WIRELESS	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING.
▽ W	WALL AT ELECTRICAL SWITCH HEIGHT	WALL PHONE OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING.
□	FLOOR	OPEN RAIL, DATA EQUIPMENT RACK	FURNISHED AND INSTALLED BY DATA INSTALLER
□ S	FLOOR	SERVER OR AV RACK	FURNISHED AND INSTALLED AS NOTED
□	WALL	TELEPHONE BOARD	SEE ARCHITECTURAL ELEVATIONS
□	FLOOR/CEILING	CABLE TRAY	PROVIDE SIZE AS NOTED AND DIMENSIONED, TRAPEZE HUNG
□	CEILING	LADDER RUNWAY	FURNISHED AND INSTALLED BY DATA INSTALLER
□ FB#	FLOOR	FLOOR BOX	SEE 'EP' SHEETS
□ PTH#	FLOOR	POKE THRU	SEE 'EP' SHEETS

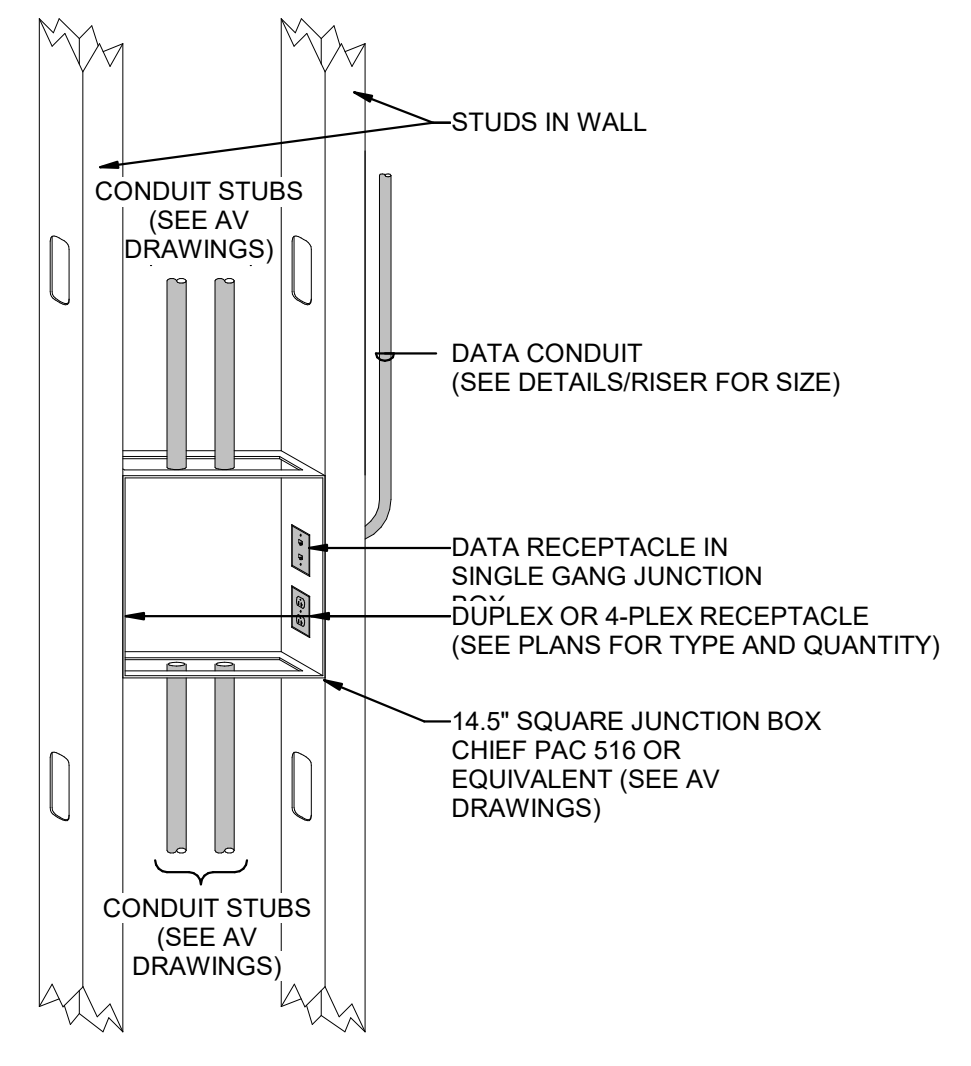
A INDICATES ABOVE COUNTER MOUNTING



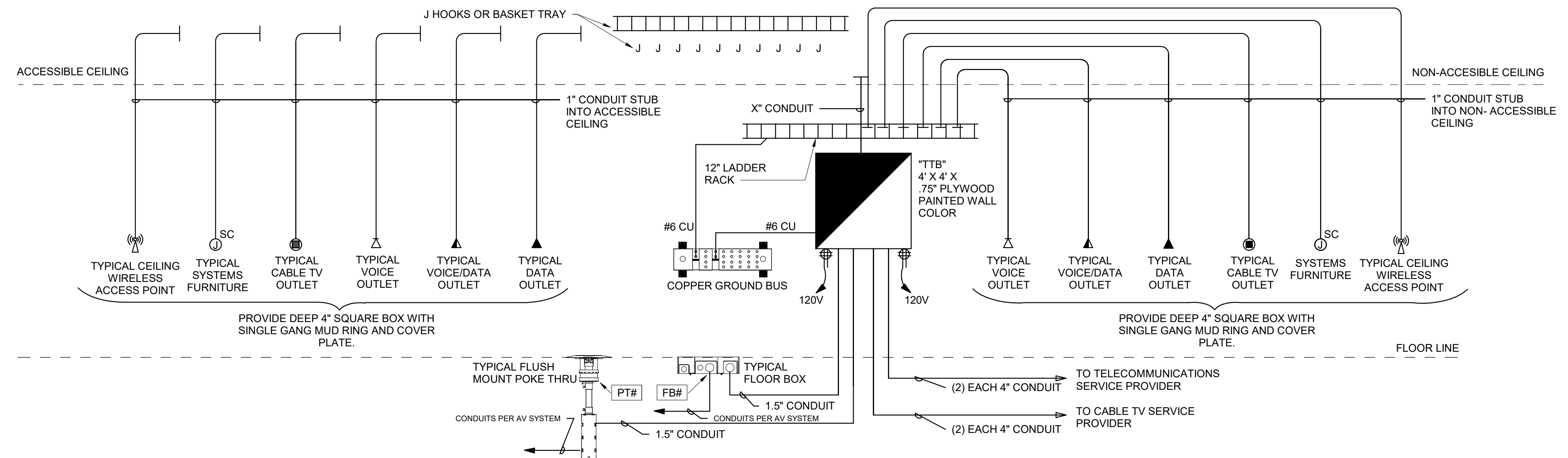
4 AUDIO VISUAL CONDUIT RISER DIAGRAM (MONITOR ON WALL)
 SCALE: NTS



3 AUDIO VISUAL CONDUIT RISER DIAGRAM (PROJECTOR)
 SCALE: NTS



1 TYPICAL FLAT PANEL RECEPTACLE ROUGH-IN DETAIL
 SCALE: NTS



2 VOICE/ DATA CONDUIT RISER DIAGRAM
 SCALE: NTS

