

NEW CONSTRUCTION:  
**DAVINCI ACADEMY**  
**REMODEL**

LOCATION:

215 22ND STREET  
 OGDEN, UTAH



177 E. ANTELOPE DR. STE. B  
 LAYTON, UT 84041  
 PHONE: (801) 499-5054

**2018 IBC CODE ANALYSIS**

OCCUPANCY GROUP (CHAPTER 3)	E
CONSTRUCTION TYPE (TABLE 601)	V-B
FIRE SPRINKLERS PROVIDED?	YES
<b>BUILDING HEIGHT &amp; AREA</b>	
ALLOWABLE BUILDING HEIGHT (TABLE 504.3)	40'
ALLOWABLE NUMBER OF STORIES (TABLE 504.4)	2
ACTUAL NUMBER OF STORIES	2
TOTAL ALLOWABLE BUILDING AREA (506.2.3)	70,500 SQ.FT.
$A_a = [At + (Ns \times If)] \times Sa$	
$A_a = [28,500 + (9,500 \times 0.75)] \times 2$	
FRONTAGE INCREASE (506.3.3)	0.75
$If = [F/P - 0.25] \times W/30$	
$If = [1044/1044 - 0.25] \times 30/30$	
ACTUAL EXISTING MAIN FLOOR AREA	14,987 SQ.FT.
ACTUAL EXISTING UPPER FLOOR AREA	9,461 SQ.FT.
ACTUAL NEW UPPER FLOOR AREA	1,756 SQ.FT.
ACTUAL BUILDING AREA (BOTH FLOORS)	26,204 SQ.FT.
<b>OCCUPANT LOAD (TABLE 1004.5)</b>	
<i>MAIN LEVEL</i>	
EXISTING OFFICE AREAS (150 GROSS)	5
EXISTING STORAGE (300 GROSS)	2
EXISTING CLASSROOMS (20 NET)	187
EXISTING ASSEMBLY - UNCONCENTRATED (15 NET)	223
EXISTING LIBRARY (50 NET)	25
KITCHEN (200 GROSS)	3
<i>UPPER LEVEL</i>	
EXISTING OFFICE AREAS (150 GROSS)	5
EXISTING STORAGE (300 GROSS)	2
EXISTING CLASSROOMS (20 NET)	244
NEW CLASSROOMS (20 NET)	77
MAIN LEVEL OCCUPANT LOAD	445
UPPER LEVEL OCCUPANT LOAD	328
TOTAL OCCUPANT LOAD	773
STUDENTS ALLOWED PER CHARTER	340
TOTAL STAFF	50
TOTAL OCCUPANT LOAD	390
BASED ON EXCEPTION 1004.1.2	
<b>MEANS OF EGRESS</b>	
NUMBER OF EXITS REQUIRED (TABLE 1006.3.2)	2
NUMBER OF EXITS PROVIDED	PER PLAN
MAX ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	250'
ACTUAL MAX. TRAVEL DISTANCE	197'
FIRE RATED STAIR ENCLOSURE REQUIRED? (1019.3)	NO
CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.1)	0
<b>PLUMBING FIXTURES (IBC TABLE 2902.1)</b>	
REQUIRED WATER CLOSETS (1 PER 50)	8
REQUIRED LAVATORIES (1 PER 50)	8
REQUIRED DRINKING FOUNTAINS (1 PER 100)	4
REQUIRED SERVICE SINKS	1
<b>TOTAL PROVIDED FIXTURES</b>	
EXISTING WATER CLOSETS PROVIDED	11
EXISTING URINALS PROVIDED	5
EXISTING LAVATORIES PROVIDED	14
EXISTING DRINKING FOUNTAINS PROVIDED	8
EXISTING SERVICE SINKS PROVIDED	2

**ABBREVIATIONS**

(NOT ALL ITEMS MAY BE APPLICABLE)

.	FEET
"	INCHES
ADA	AMERICAN DISABILITIES ACT
ARCH	ARCHITECTURAL
AFF	ABOVE FINISH FLOOR
AIA	THE AMERICAN INSTITUTE OF ARCHITECTS
ALUM.A.	ALUMINUM
APPROX	APPROXIMATELY
AV	AUDIO VISUAL
BLDG	BUILDING
BLKG	BLOCKING
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CW	COLD WATER
DEMO	DEMOLITION
DIA	DIAMETER
DM	DIMENSION
DIST	DISTANCE
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
ELECT	ELECTRICAL
ELEV	ELEVATION
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EX	EXISTING
EXIST	EXISTING
FE	FIRE EXTINGUISHER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISH GRADE
FLR	FLOOR
FND	FOUNDATION
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED, GALVANIC
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GYP	GYPSPUM WALL BOARD
GWB	GYPSPUM WALL BOARD
HC	HANDICAP
HDR	HEADER
HORIZ	HORIZONTAL
HM	HOLLOW METAL
HW	HOT WATER
IJ	ISOLATION JOINT
JAN	JANITOR
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MISC	MISCELLANEOUS
MIN	MINIMUM
MTL	METAL
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANT(S)
OFCI	OWNER FURNISHED & CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED & OWNER INSTALLED
OH	OVERHANG
OL	OCCUPANT LOAD
OPNG	OPENING
PERF	PERFORATED
RCP	REFLECTED CEILING PLAN
REV	REVISION(S), REVISED
RFI	REQUEST FOR INFORMATION
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
ROUD	REQUIRED
RR	RESTROOM
SIM	SIMILAR
SPEC	SPECIFICATION
SPECS	SPECIFICATIONS
S.F.	SQUARE FOOT (FEET)
SQ.FT.	SQUARE FOOT (FEET)
SS	SANITARY SEWER
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TI	TENANT IMPROVEMENT
TOS	TOP OF SLAB
TOW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WITH
WC	WATER CLOSET
WID	WASHER & DRYER
WH	WATER HEATER

**INDEX TO DRAWINGS**

G001	COVER SHEET & GENERAL INFORMATION
G002	TYPICAL ADA DETAILS
G003	TYPICAL ADA DETAILS
G004	TYPICAL ADA DETAILS
G010	LIFE SAFETY PLANS
G011	LIFE SAFETY PLANS
A101	DEMOLITION PLAN
A111	OVERALL LEVEL 1 FLOOR PLAN
A112	LEVEL 1 FLOOR PLAN - AREA A
A141	REFLECTED CEILING PLANS
A142	RCP GENERAL NOTES / DETAILS
A301	BUILDING SECTIONS
A311	WALL SECTIONS
A501	ARCHITECTURAL DETAILS
A601	DOOR SCHEDULE
A621	FINISH SCHEDULE
S001	GENERAL STRUCTURAL NOTES
S002	STRUCTURAL SPECIAL INSPECTIONS
S101	FOUNDATION AND FLOOR FRAMING PLAN
S121	ROOF FRAMING PLAN
S501	STRUCTURAL DETAILS
E001	ELECTRICAL SYMBOLS & NOTES
E200	DEMOLITION ELECTRICAL PLANS
E201	LEVEL 1 NEW ELECTRICAL PLAN
E202	LEVEL 2 NEW ELECTRICAL PLAN
E301	ELECTRICAL SCHEDULES
E401	ELECTRICAL DETAILS
M000	MECH. SYMBOL LEGEND, SCHED. AND DETAILS
MP-100	MECH. FLOOR PLANS / ROOF PLAN & DIAG.
MP-700	MECH. / PLUMB. CONTROLS & SPECS / DET.

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**MECHANICAL ENGINEER**

CUNNING & ASSOCIATES  
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 TREMONTON, UT 84337  
 PHONE: (801) 726-5047

**CURRENT CODES**

2018 IBC	2018 IMC
2018 IFC	NEC 2017
2018 IECC	2003 UPC
2018 IPC	ICC/ANSI A117.1-2009
2018 IFGC	

**ANNOTATION LEGEND**

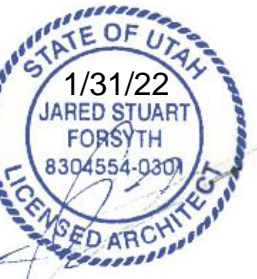
SYMBOL	DESCRIPTION
(X)	GRID BUBBLE
ROOM NAME [XXX]	ROOM TAG
(XXX)	DOOR TAG (SEE DOOR SCHEDULE)
(X)	WINDOW TAG (SEE WINDOW SCHEDULE)
(X)	WALL TAG (SEE WALL SECTIONS)
(XXXX) X	EXTERIOR ELEVATION CALLOUT
(XXXX) X	INTERIOR ELEVATION CALLOUT
(XX) (XXXX)	DETAIL CALLOUT
(XX) (XXXX)	BUILDING SECTION CALLOUT
(A)	REVISION
(FE)	FIRE EXTINGUISHER (SEE FIRE EXTINGUISHER NOTE)

NOT ALL SYMBOLS MAY BE APPLICABLE

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DAVINCI ACADEMY REMODEL  
 215 22ND STREET  
 OGDEN, UTAH

SEAL:



DATE: 01/19/2022  
 PROJECT: 21-311  
 DRAWN BY: WM

**REVISIONS**

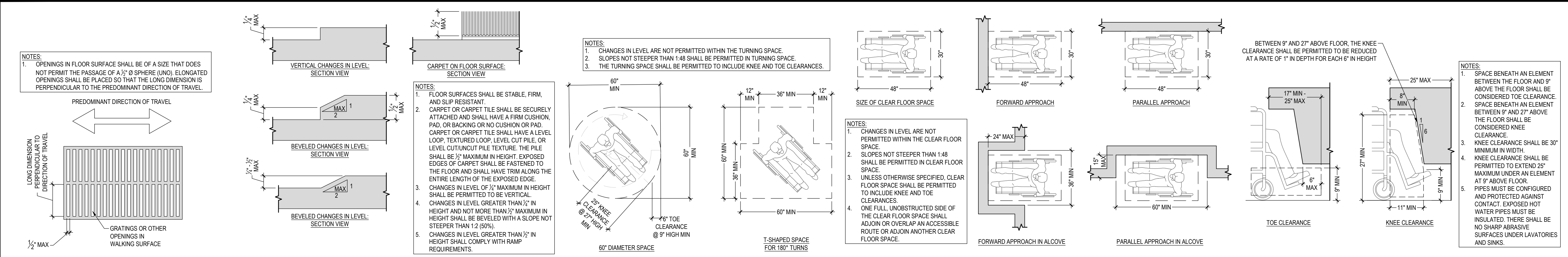
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COVER SHEET & GENERAL INFORMATION

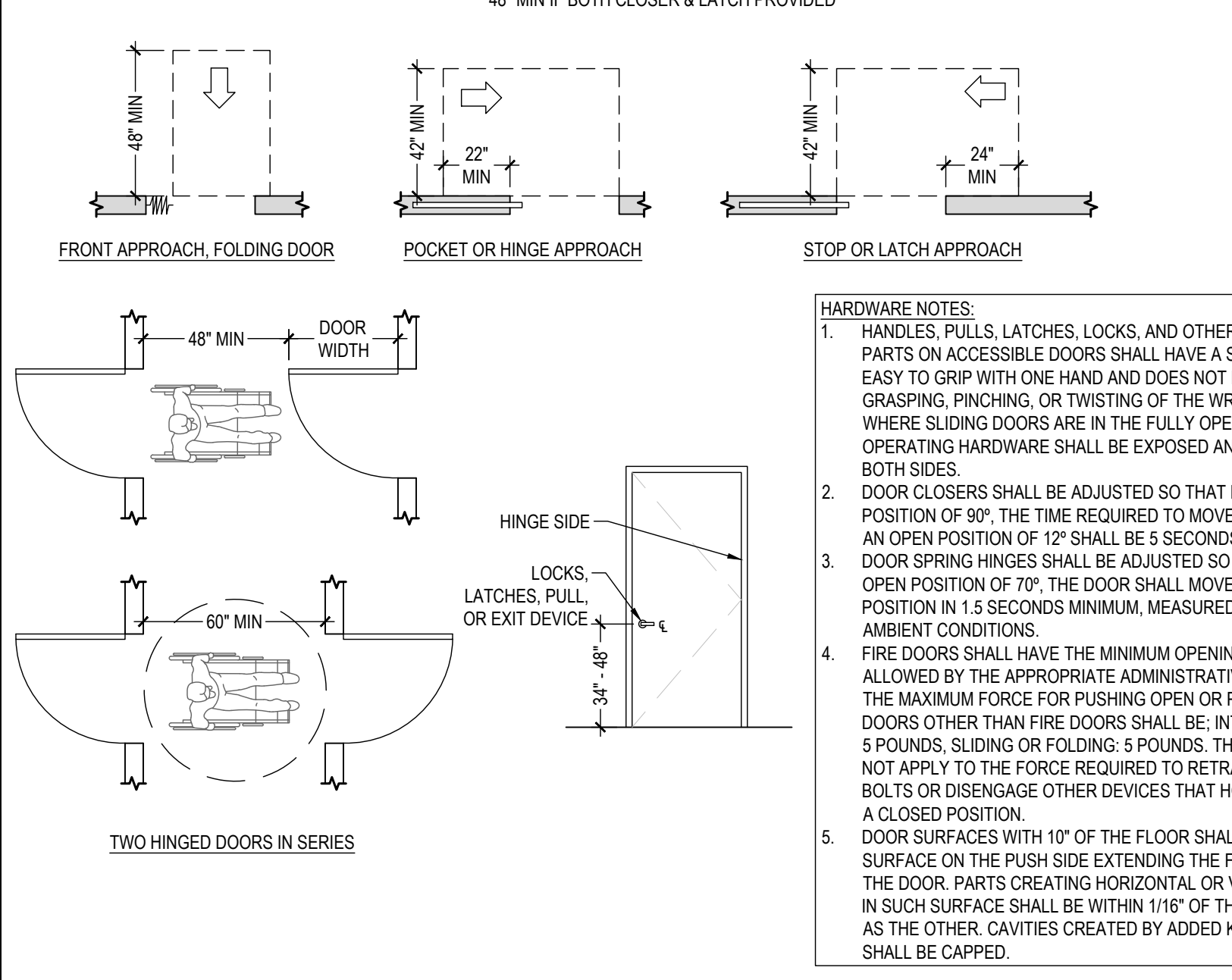
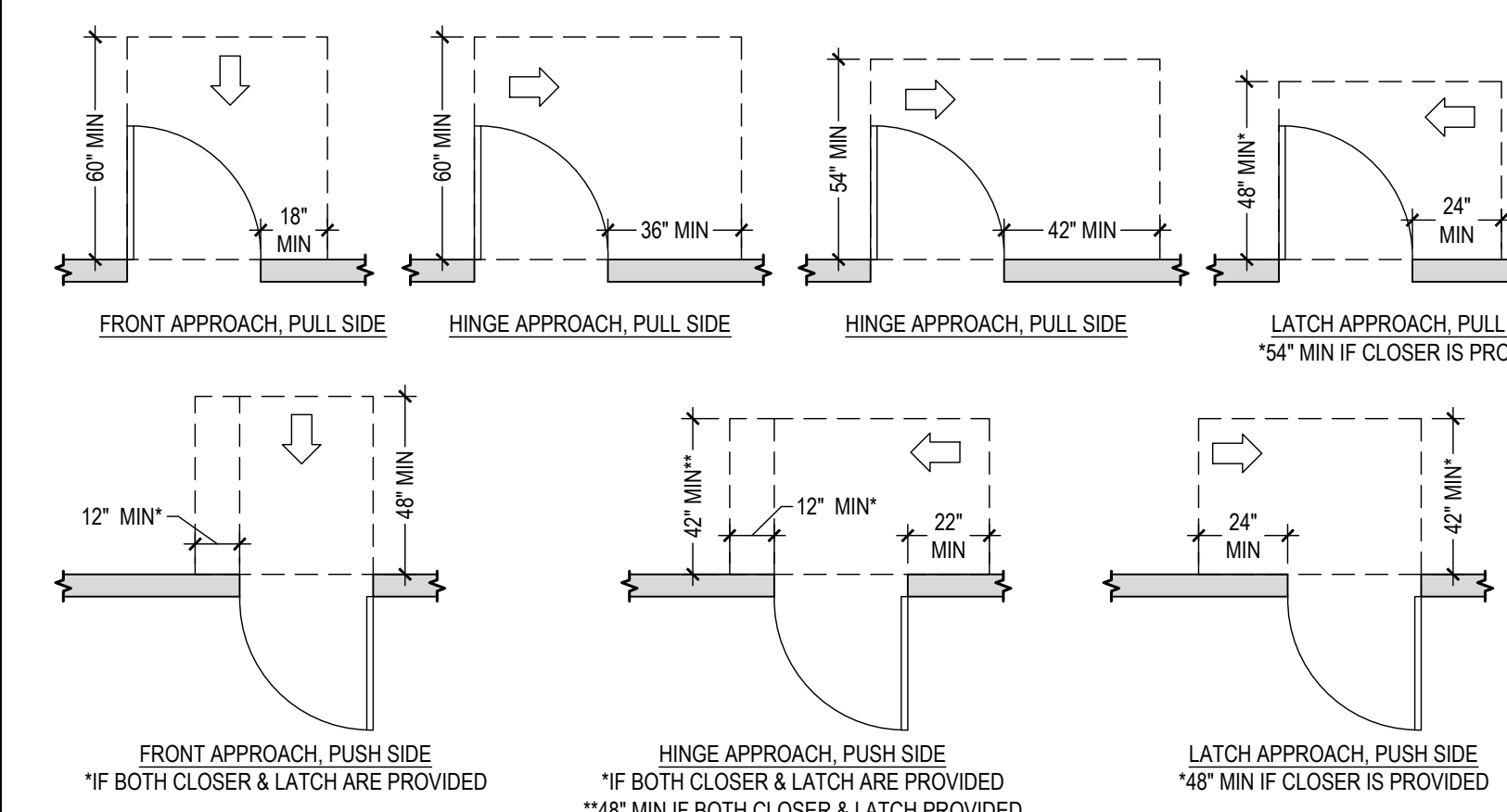
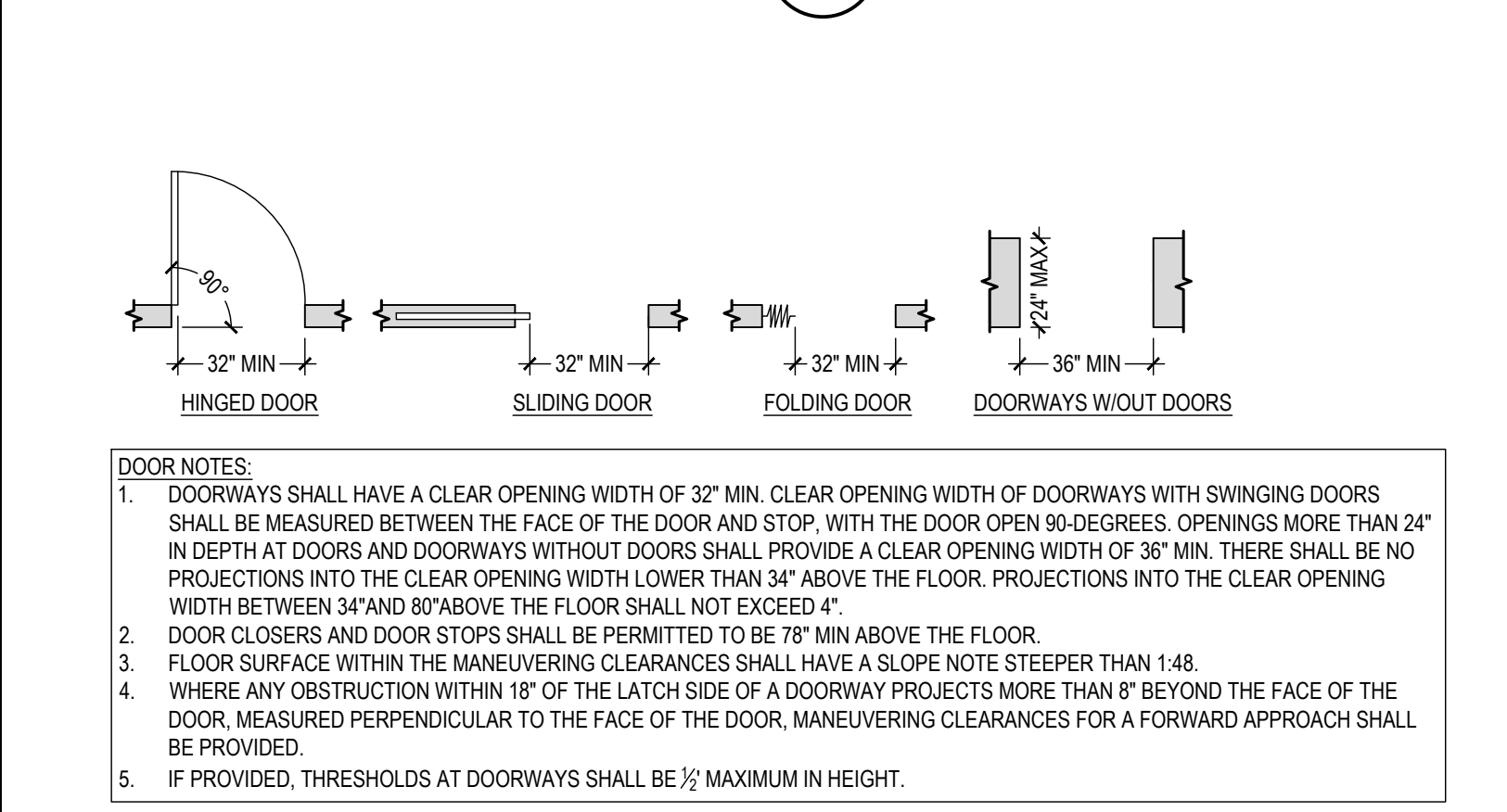
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**G001**

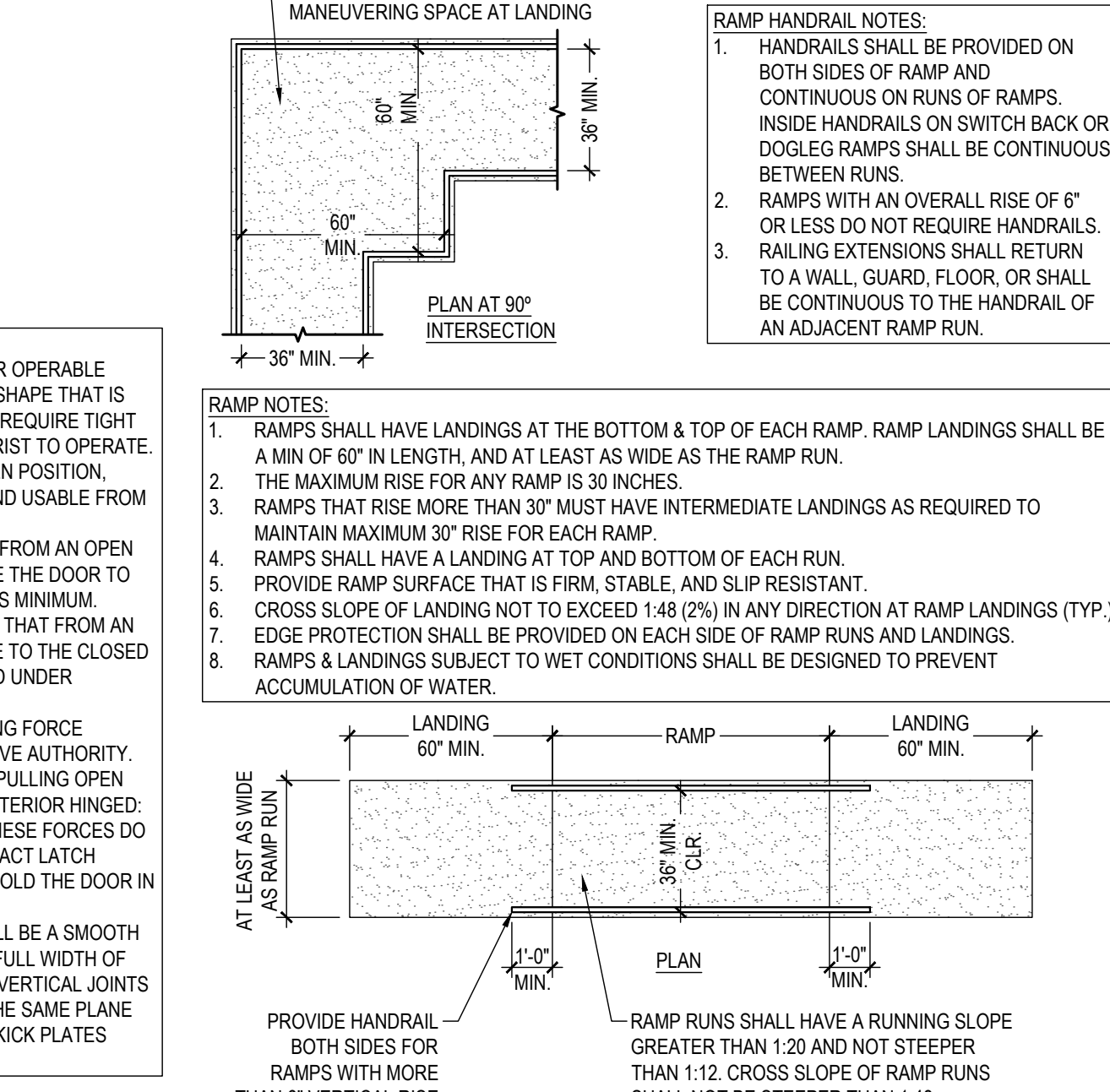
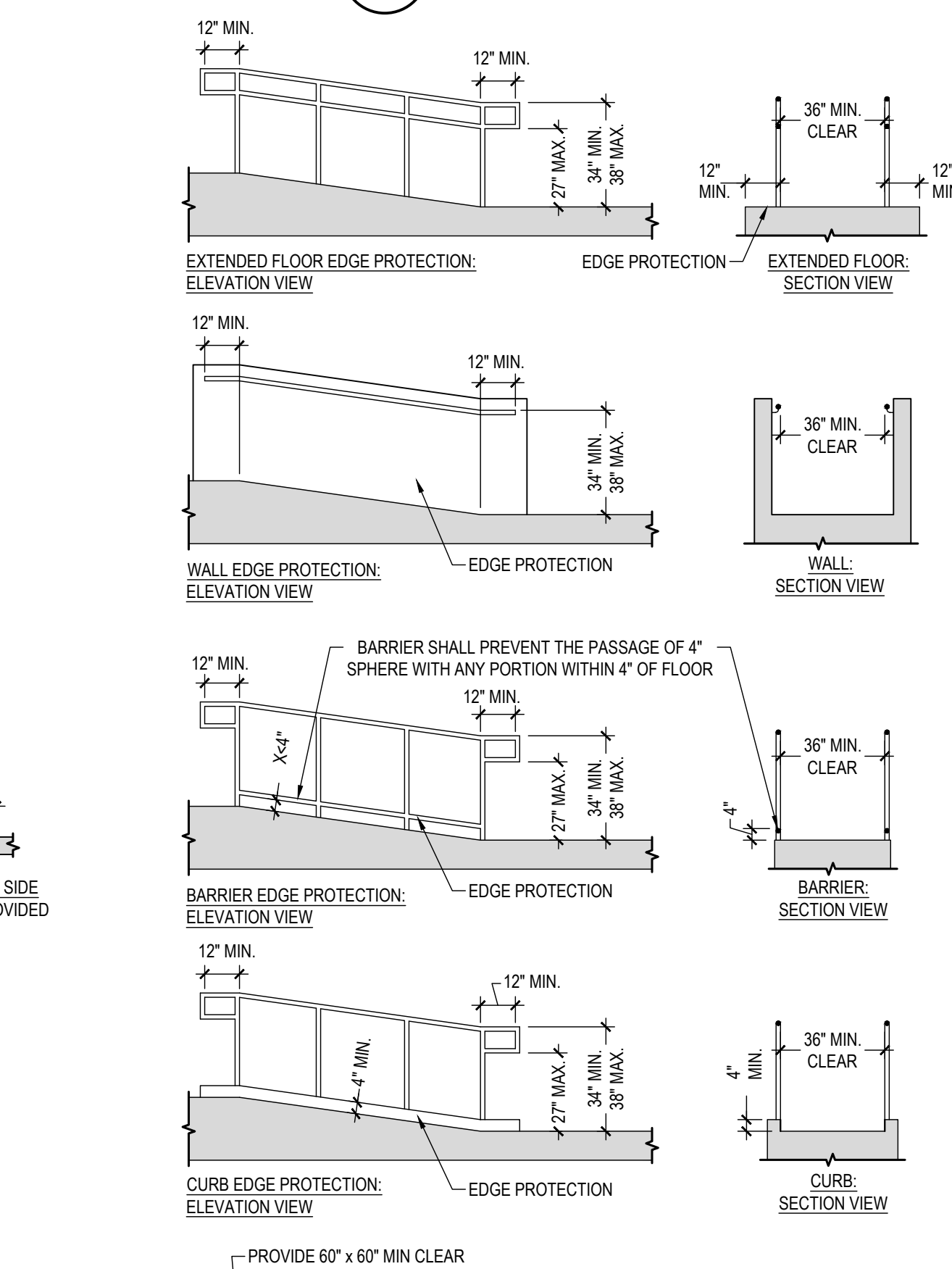




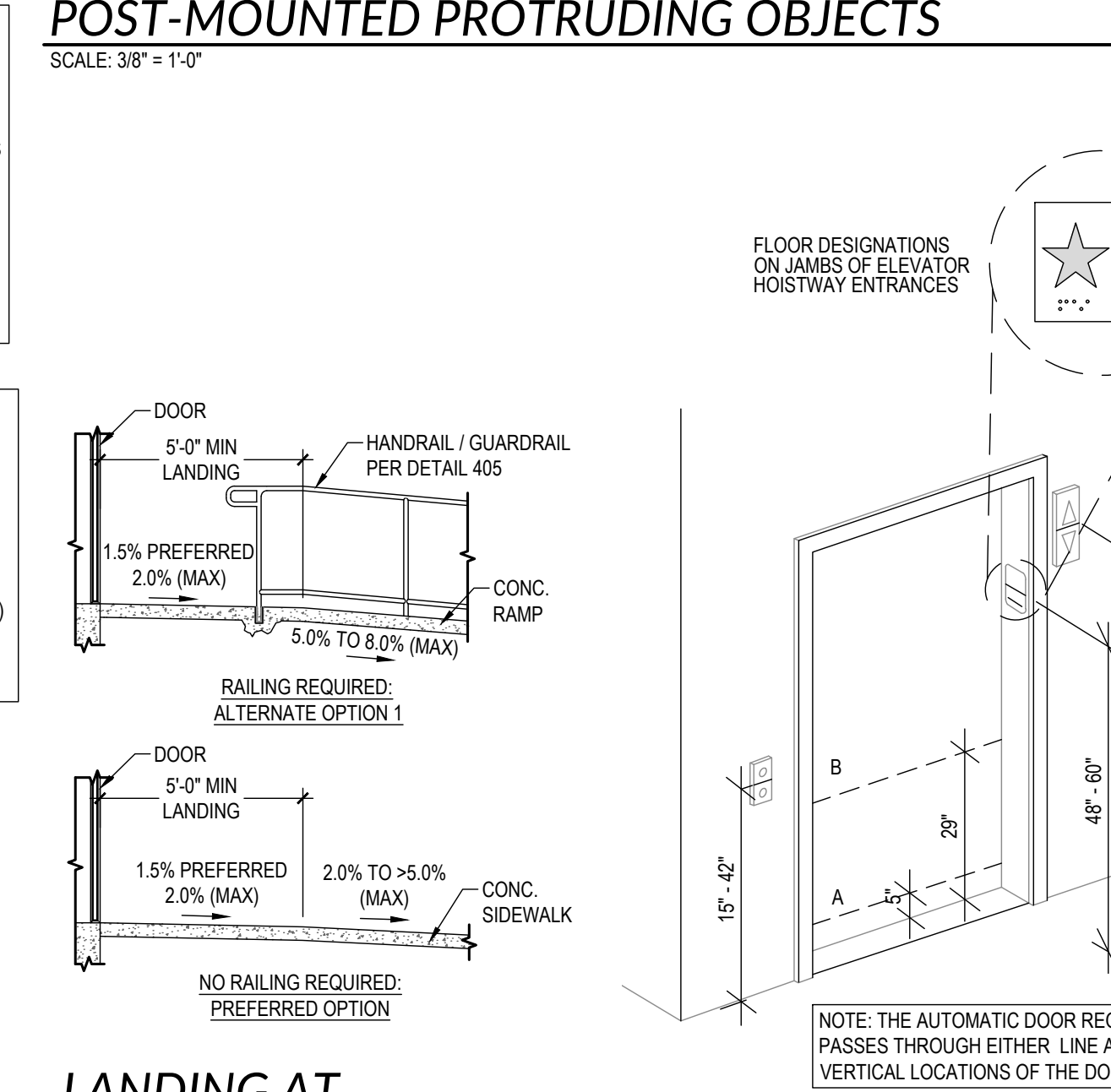
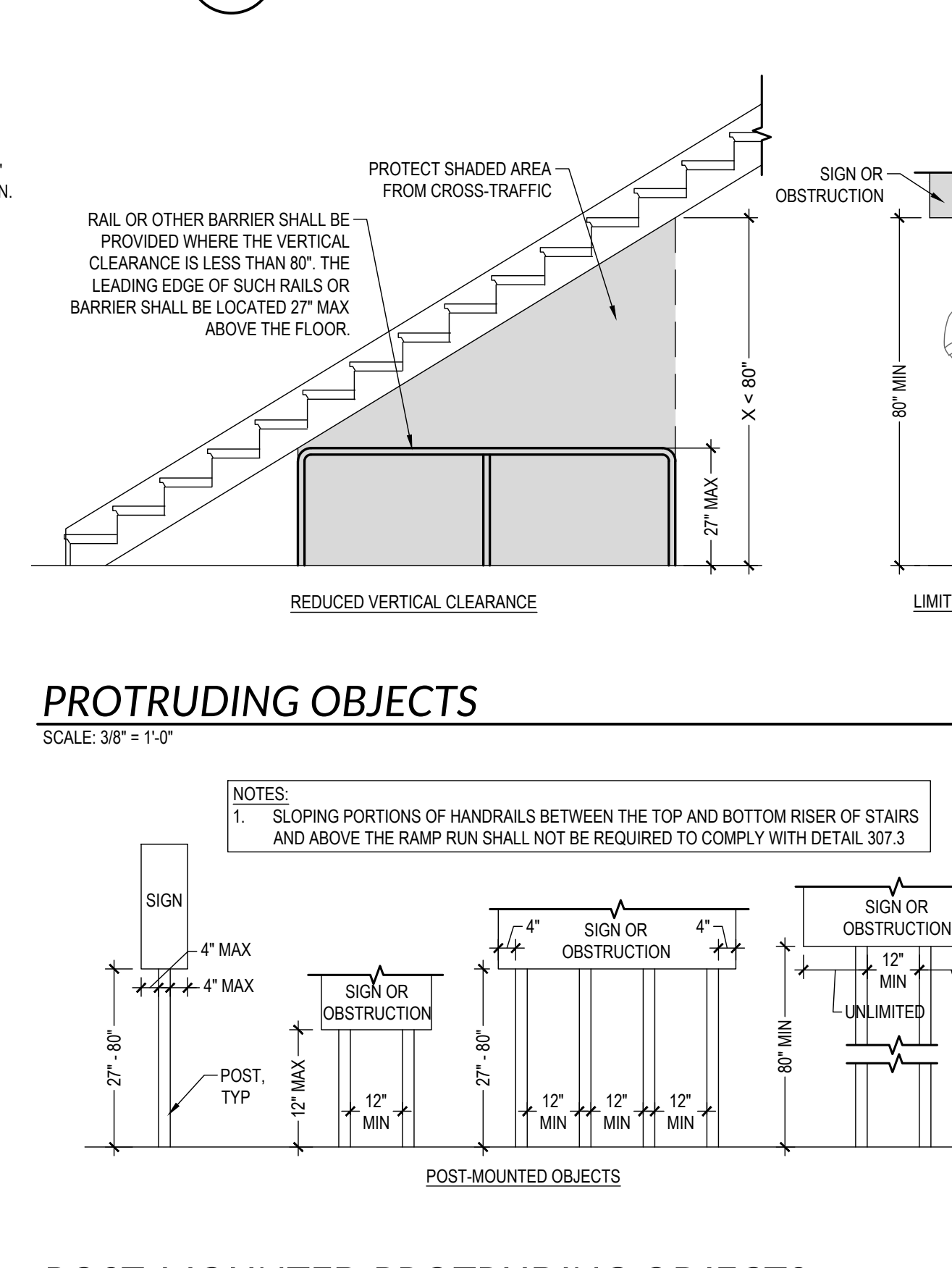
**OPENING IN FLOOR SURFACES** (302) **CHANGES IN LEVEL** (303) **WHEELCHAIR TURNING SPACE** (304) **CLEAR FLOOR SPACE** (305) **KNEE & TOE CLEARANCE** (306)



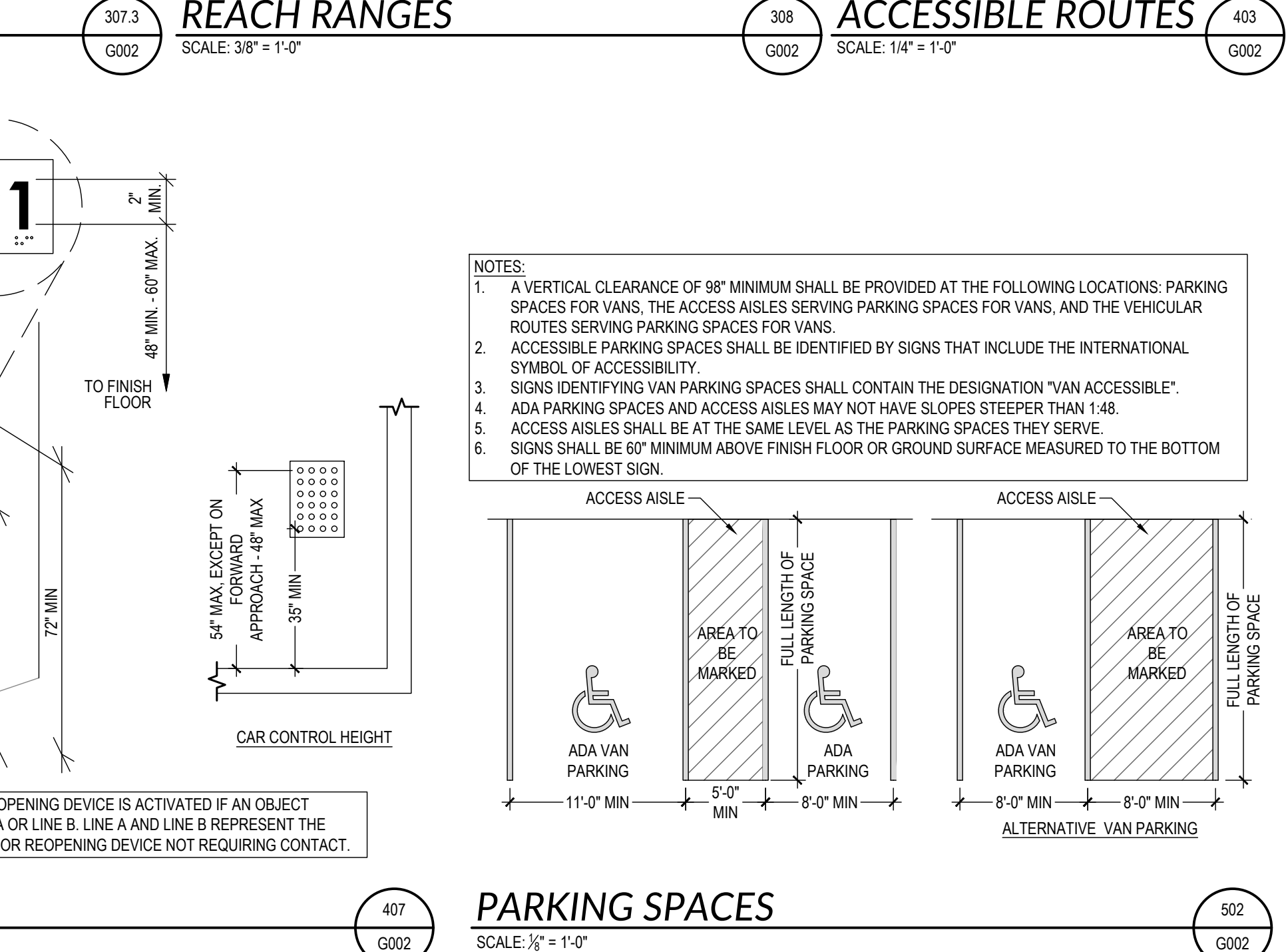
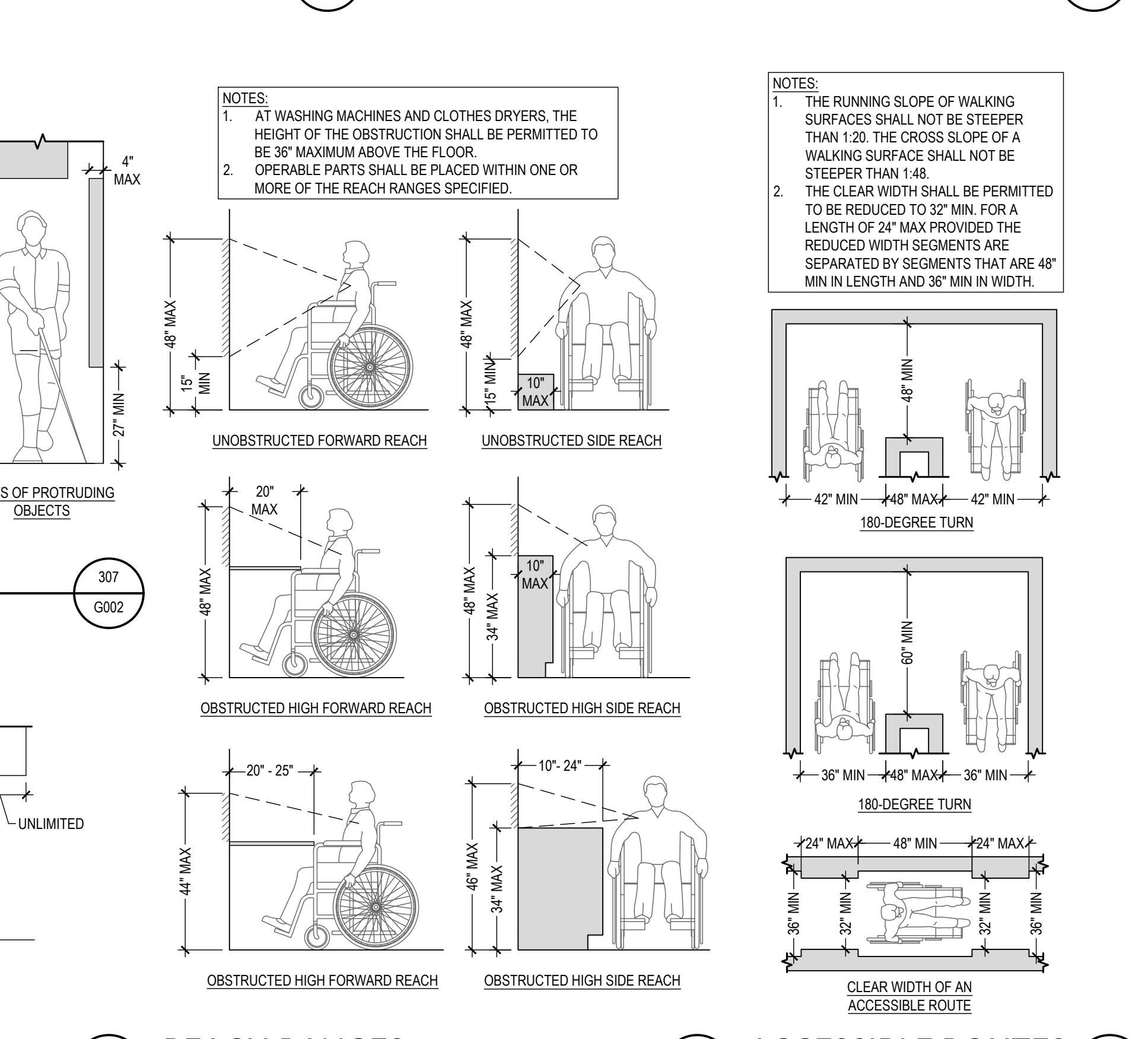
**DOORS & DOORWAYS** (302) **RAMP** (304)



**POST-MOUNTED PROTRUDING OBJECTS** (307) **LANDING AT EXTERIOR DOOR** (405.1)

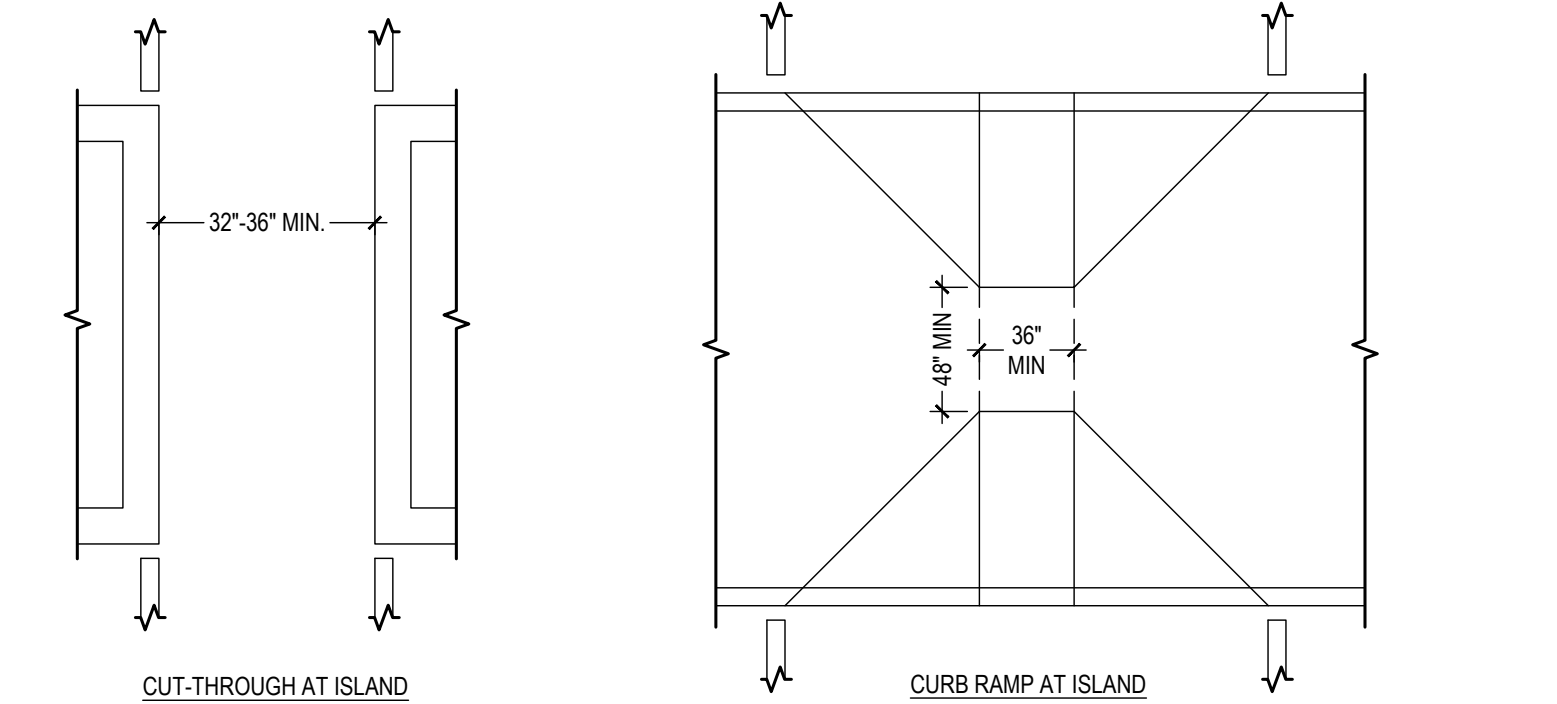
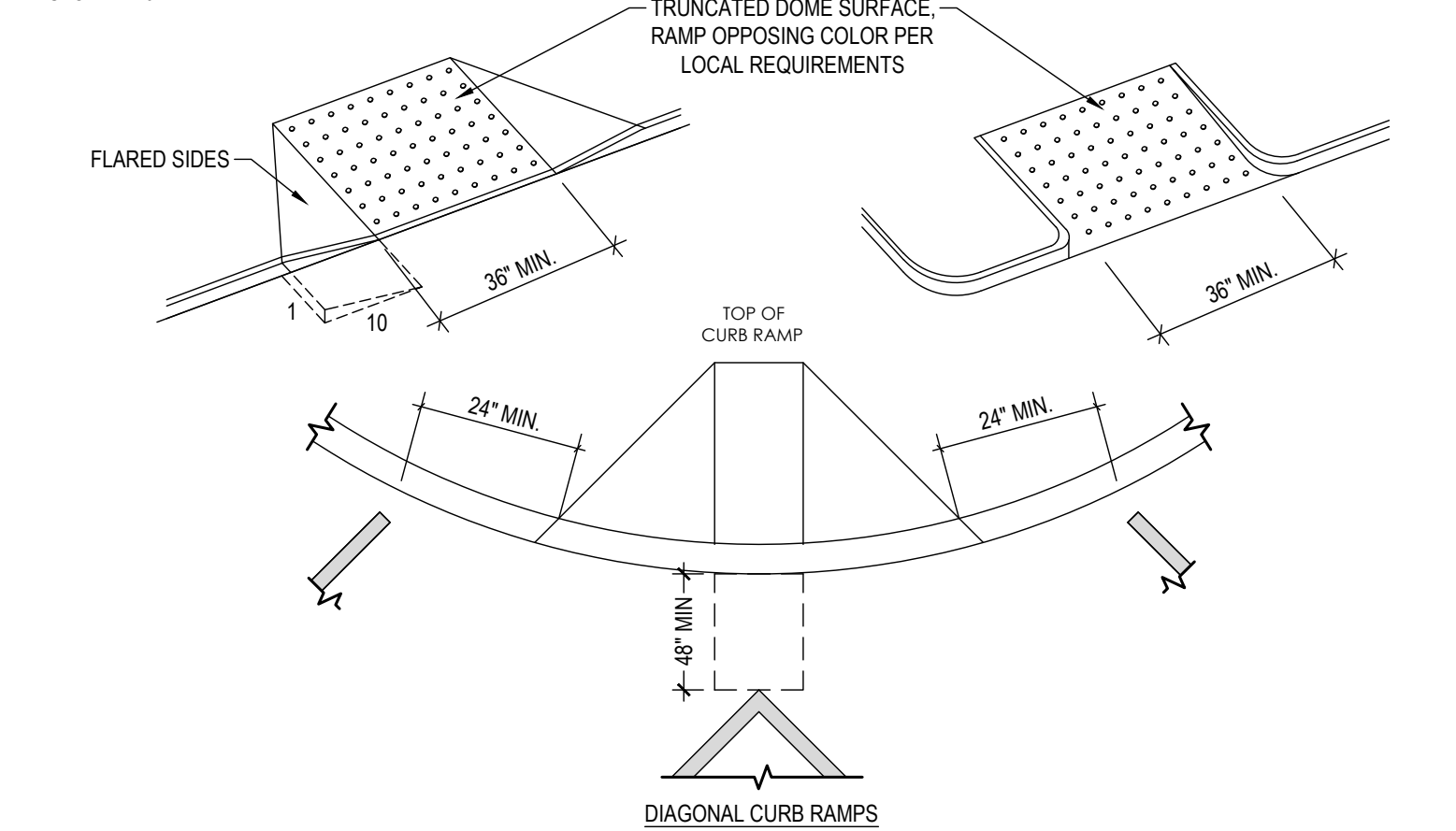
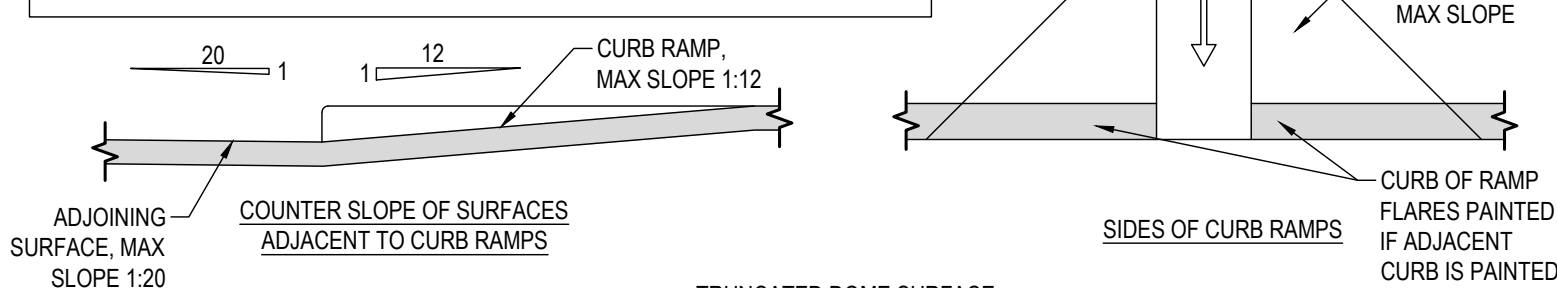


**ELEVATORS** (405.1) **PARKING SPACES** (502)



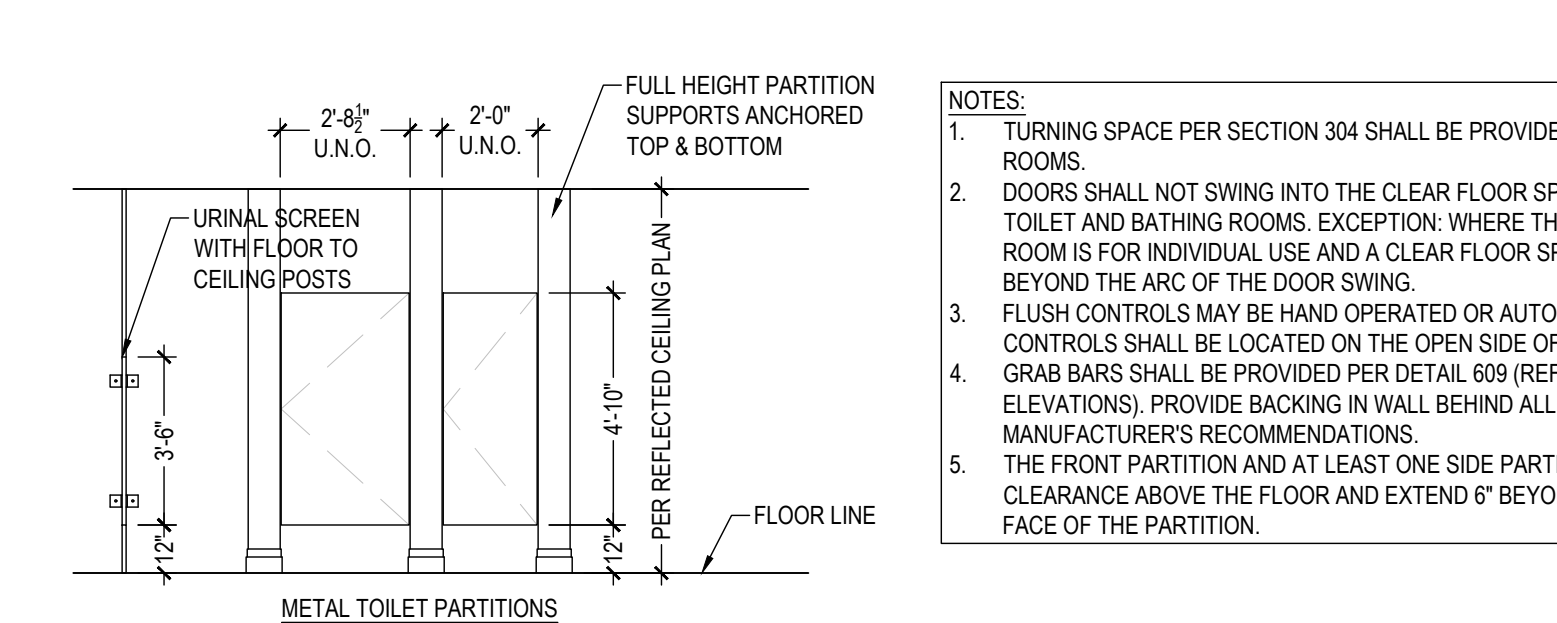
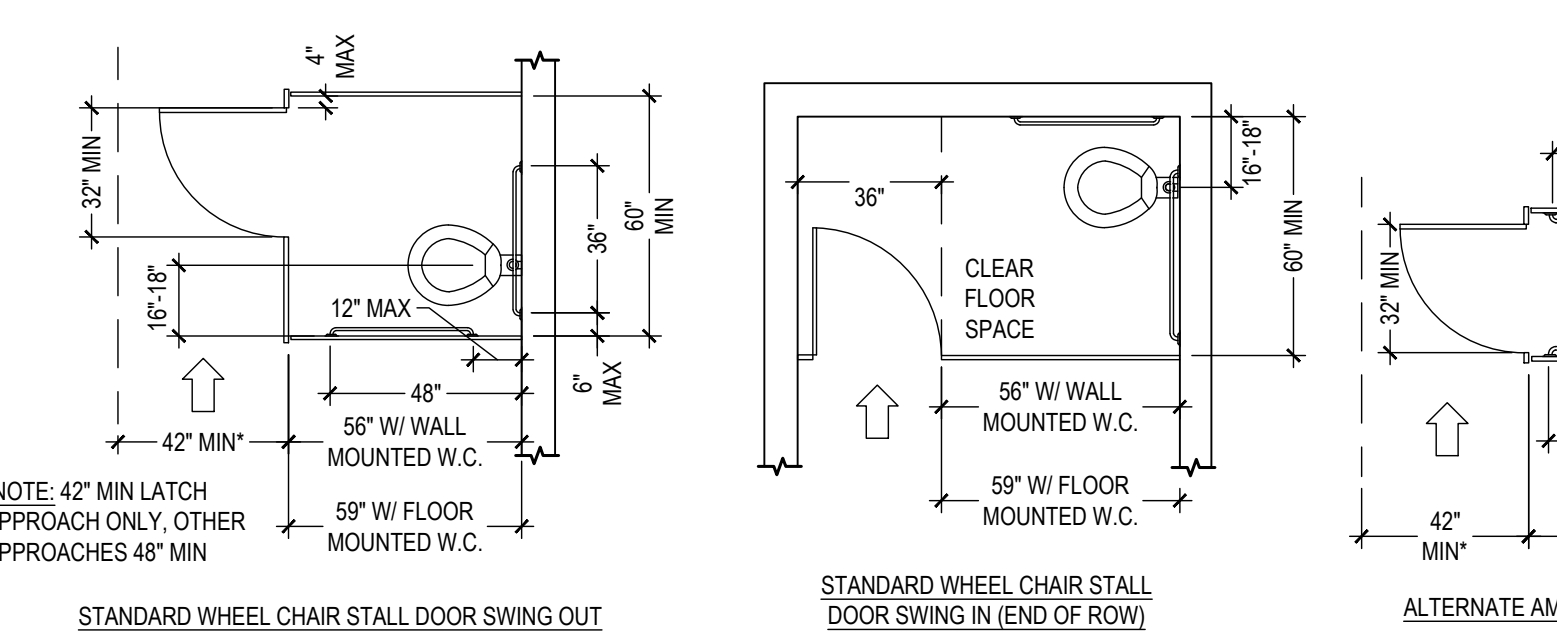
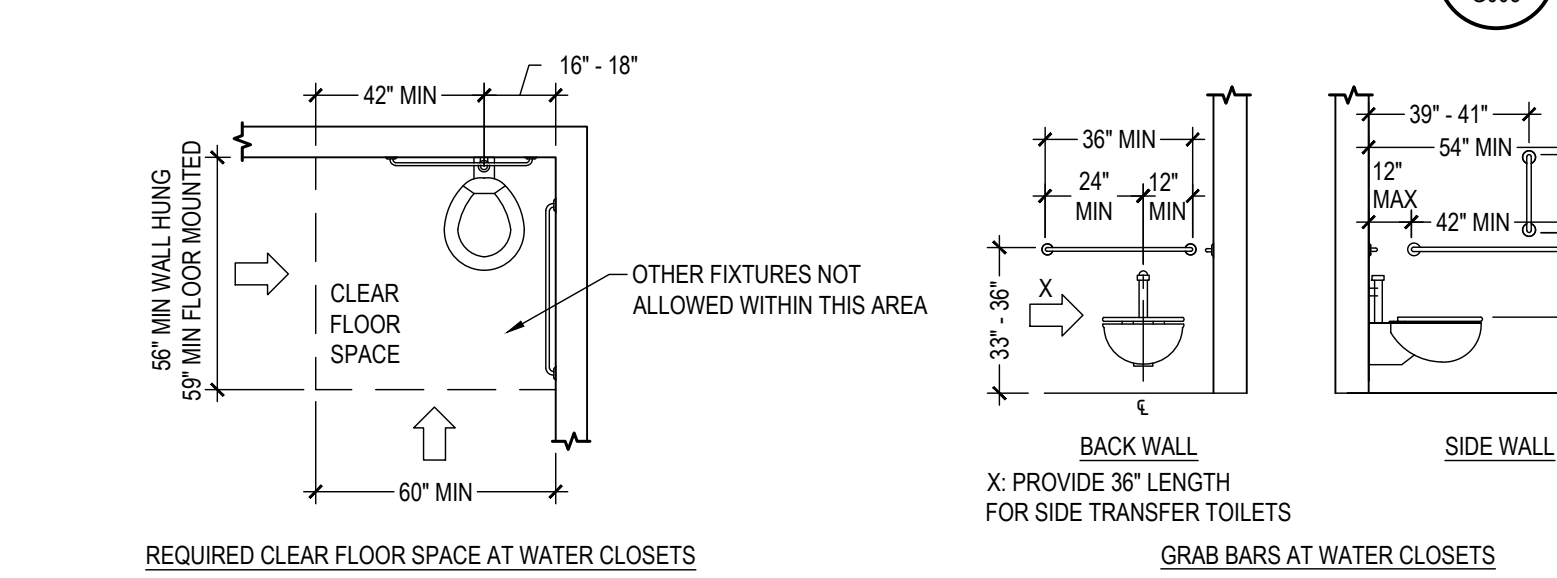
**PARKING SPACES** (502)

- NOTES:**
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
  - CURB RAMPS SHALL BE 36" MINIMUM IN WIDTH, EXCLUSIVE OF FLARED SIDES.
  - LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE 36" MINIMUM. THE CLEAR WIDTH OF THE LANDING SHALL BE AT LEAST AS WIDE AS THE CURB RAMP EXCLUDING FLARED SIDES.
  - HANDRAILS ARE NOT REQUIRED ON CURB RAMPS WITH A RISE LESS THAN 6".
  - RAISED ISLANDS IN CROSSINGS SHALL HAVE A CUT-THROUGH OR HAVE A CURB RAMP AT BOTH SIDES.



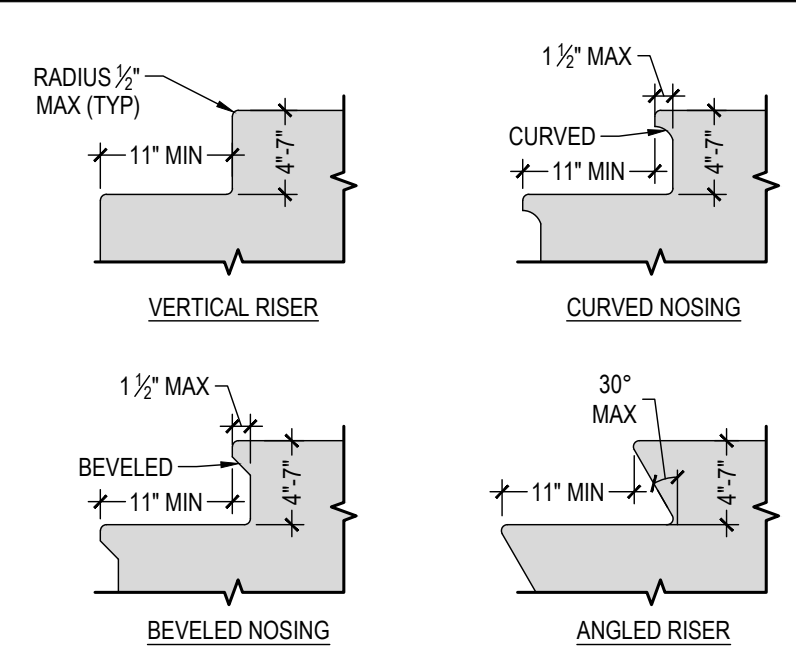
**CURB RAMPS**

NOT TO SCALE



**TOILETS & TOILET COMPARTMENTS**

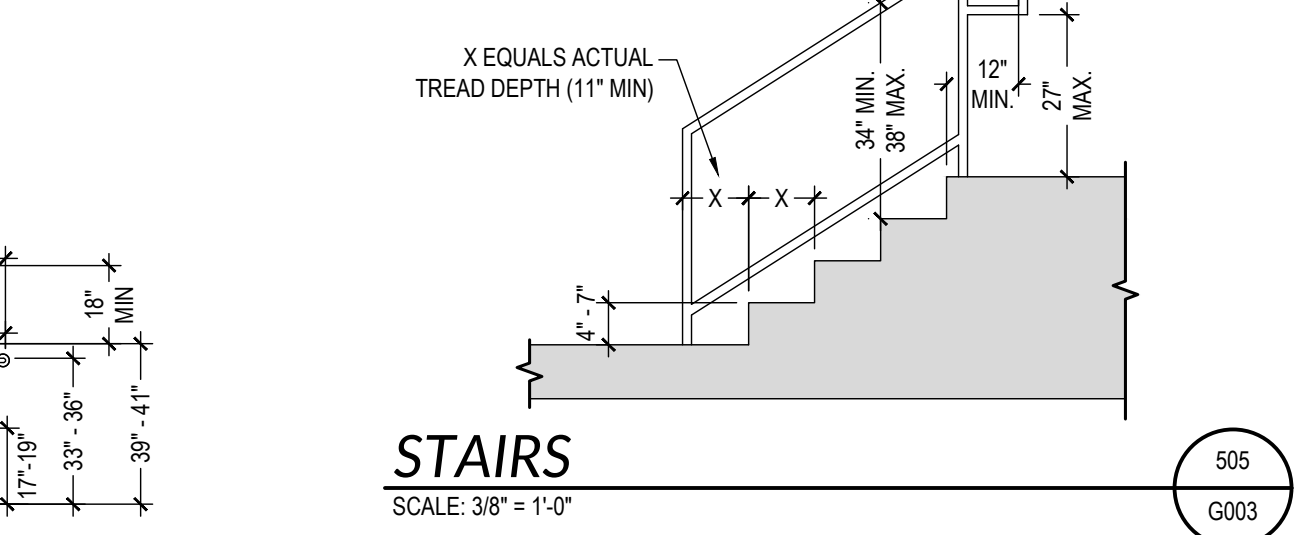
SCALE: 1/4" = 1'-0"



**STAIR NOSING**

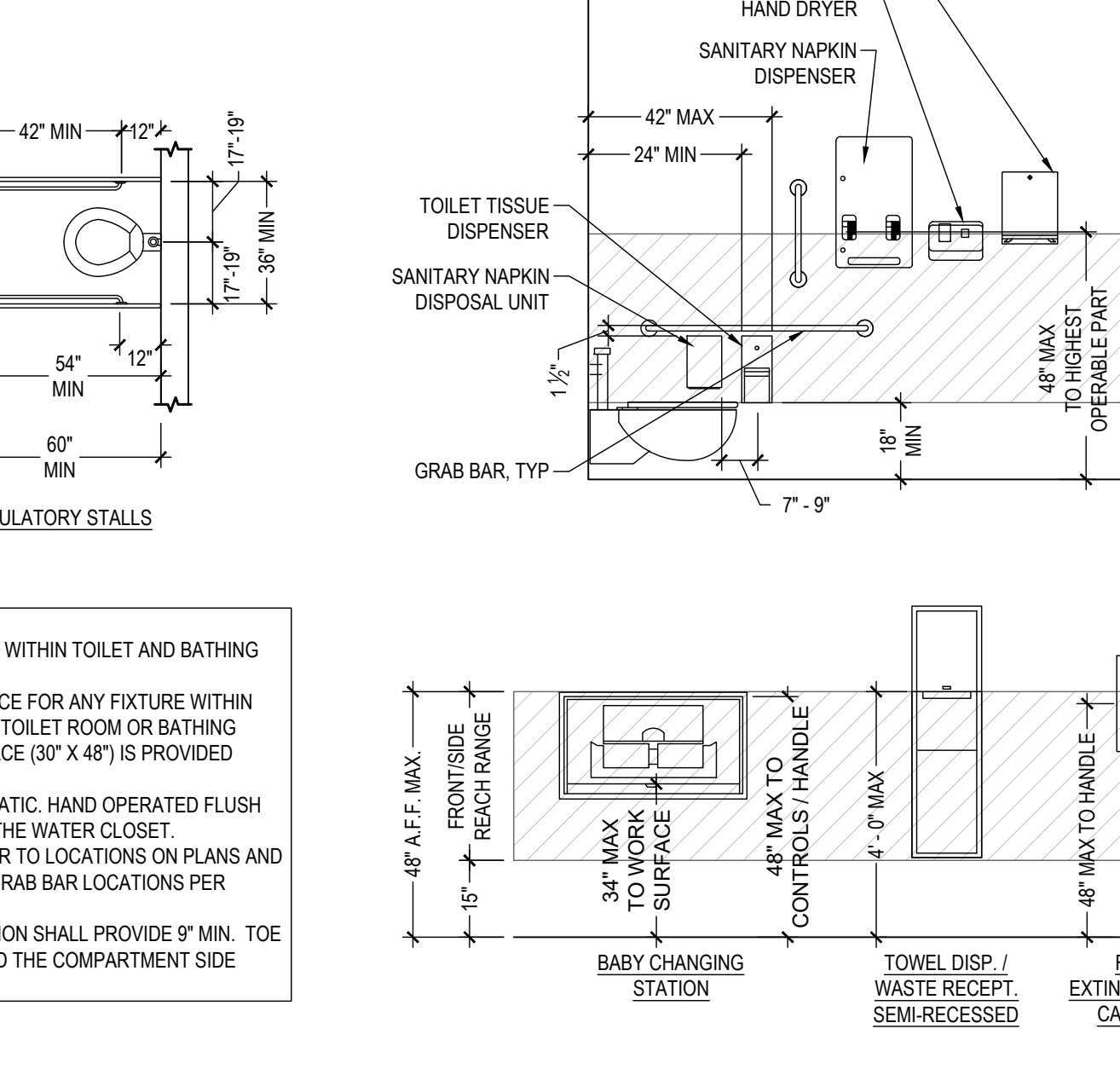
SCALE: 3/4" = 1'-0"

- NOTES:**
- 6'-8" MINIMUM FINISHED HEADROOM REQUIRED OVER ALL STAIRWAYS.
  - ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND TREAD DEPTHS. STAIR TREADS TO BE 11" MINIMUM AND RISERS TO BE 7" MAXIMUM. SEE PLANS & DETAILS FOR ACTUAL DIMENSIONS.
  - THE WALKING SURFACE OF TREADS AND LANDINGS OF A STAIRWAY SHALL NOT BE CLOSED STEEPER THAN ONE UNIT VERTICAL IN 8 UNITS HORIZONTAL (2%) IN ANY DIRECTION.
  - A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE LARGER THAN 144 INCHES BETWEEN FLOOR LEVELS OR LANDINGS.
  - OPEN RISERS SHALL NOT BE PERMITTED.
  - STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT WATER ACCUMULATION.
  - STAIRWAY TREADS AND LANDINGS SHALL HAVE A SOLID SURFACE. FINISH FLOOR SURFACES SHALL BE SECURELY ATTACHED.
  - OPENINGS IN STAIR WALKING SURFACES SHALL BE A SIZE THAT DOES NOT PERMIT THE PASSAGE OF 1/2" DIAMETER SPHERE. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL.
  - HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT. HANDRAILS SHALL BE A CONSISTENT HEIGHT ABOVE STAIR NOSING.
  - AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. SUCH EXTENSION SHALL CONTINUE WITH A HORIZONTAL EXTENSION OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT OR SHALL RETURN TO A WALL, GUARD, OR THE WALKING SURFACE.
  - HANDRAILS, AND ANY WALL OR OTHER SURFACE ADJACENT TO THEM, SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
  - THE TOPS OF HANDRAIL SHALL BE PLACED NO LESS THAN 34" AND NO MORE THAN 38" ABOVE THE NOSING OF TREADS. THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS AND SHALL BE PROVIDED ON BOTH SIDES OF STAIRWAY, PLUS 12" PAST THE STAIRS AT THE TOP OF THE STAIRWAY AND 1 TREAD LENGTH PAST THE STAIRS AT THE BOTTOM OF THE STAIRWAY. ENDS SHOULD RETURN TO WALL, GUARD, OR WALKING SURFACE OR BE CONT. TO NEXT STAIR. THE HAND GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1 1/4" AND NO MORE THAN 2" IN CROSS-SECTIONAL DIMENSION OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. THE HAND GRIP PORTION OF HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. HANDRAIL PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL.
  - USABLE STORAGE UNDER STAIRWAYS SHALL BE COMPLETELY ENCLOSED IN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION.
  - ALL OPEN SIDES OF LANDINGS & STAIRS, BALCONIES, PORCHES, DECKS, AND UN-ENCLOSED FLOOR & ROOF OPENINGS USED FOR OTHER THAN SERVICE WHICH ARE MORE THAN 30" ABOVE GRADE SHALL BE PROTECTED BY A GUARDRAIL. GUARDRAILS SHALL NOT BE LESS THAN 42" IN HEIGHT.
  - GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERNS SUCH THAT AN OBJECT 4" IN DIAMETER CANNOT PASS THROUGH THE GUARDRAIL.
  - LANDINGS SHALL BE PROVIDED AT THE TOP & BOTTOM OF EACH STAIRWAY.
  - EVERY LANDING SHALL HAVE A MINIMUM DEPTH, MEASURED PARALLEL TO THE DIRECTION OF TRAVEL, EQUAL TO THE WIDTH OF THE STAIRWAY OR 48", WHICHEVER IS LESS.
  - DOORS OPENING ONTO LANDINGS SHALL NOT REDUCE THE LANDING LESS THAN ONE-HALF THE REQUIRED WIDTH. WHEN FULLY OPEN, THE DOOR SHALL NOT PROJECT MORE THAN 7" INTO A LANDING.



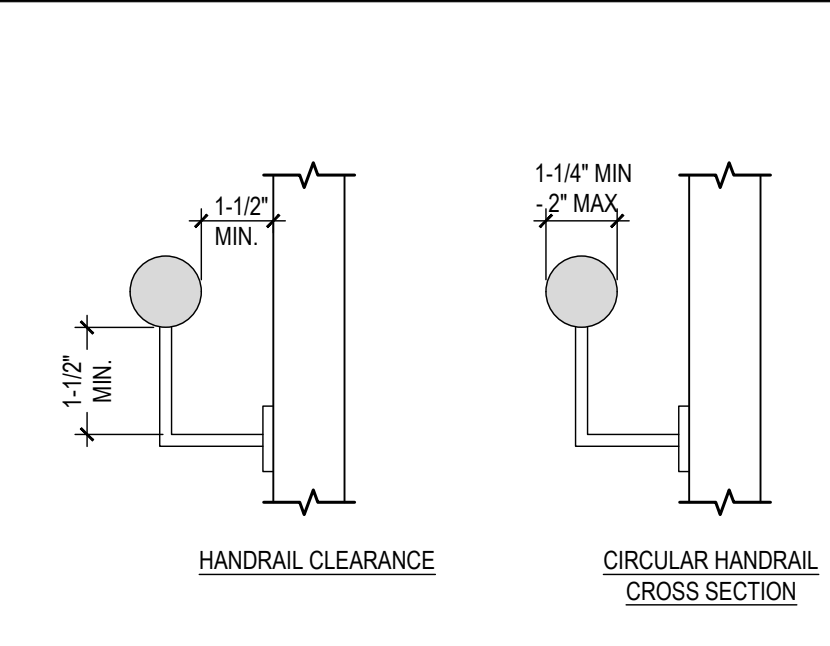
**STAIRS**

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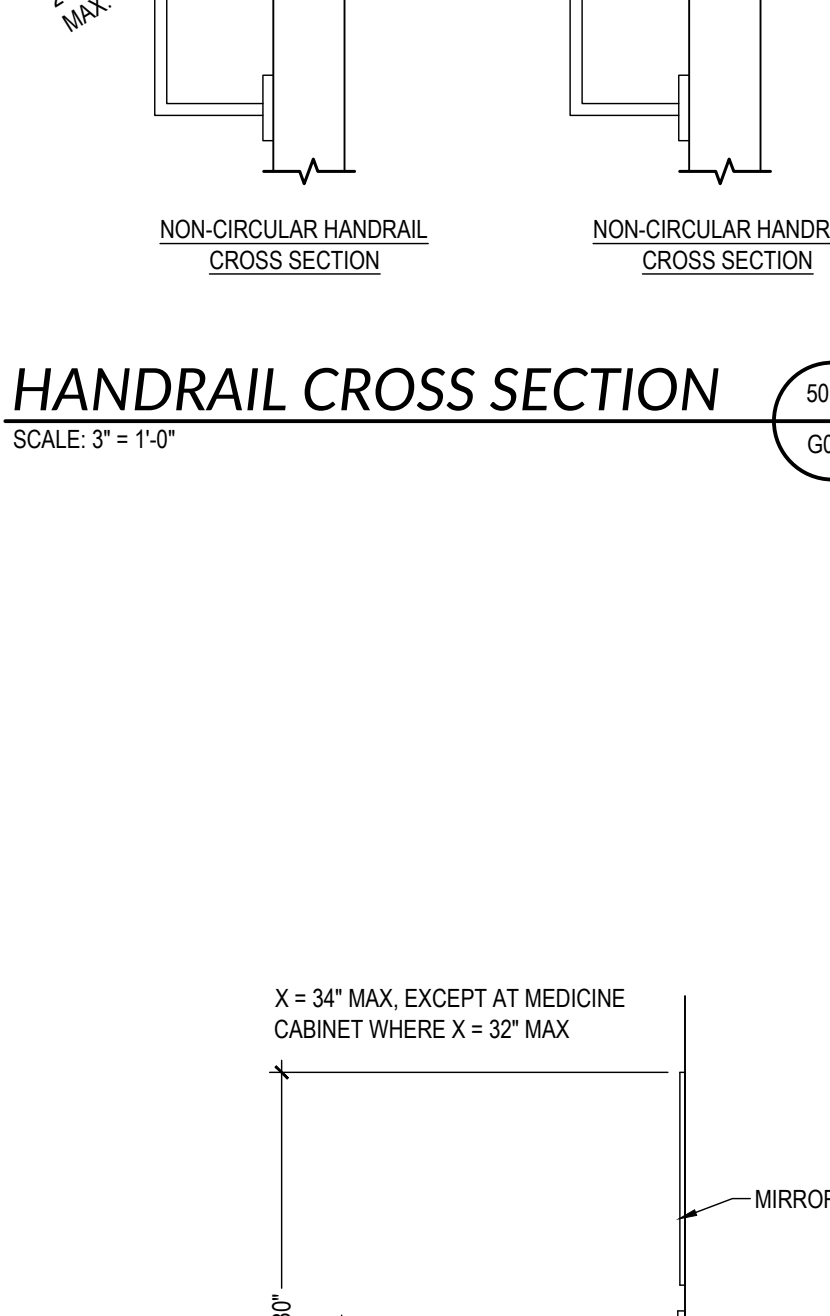
**ACCESSORIES & EQUIPMENT**

SCALE: 3/8" = 1'-0"



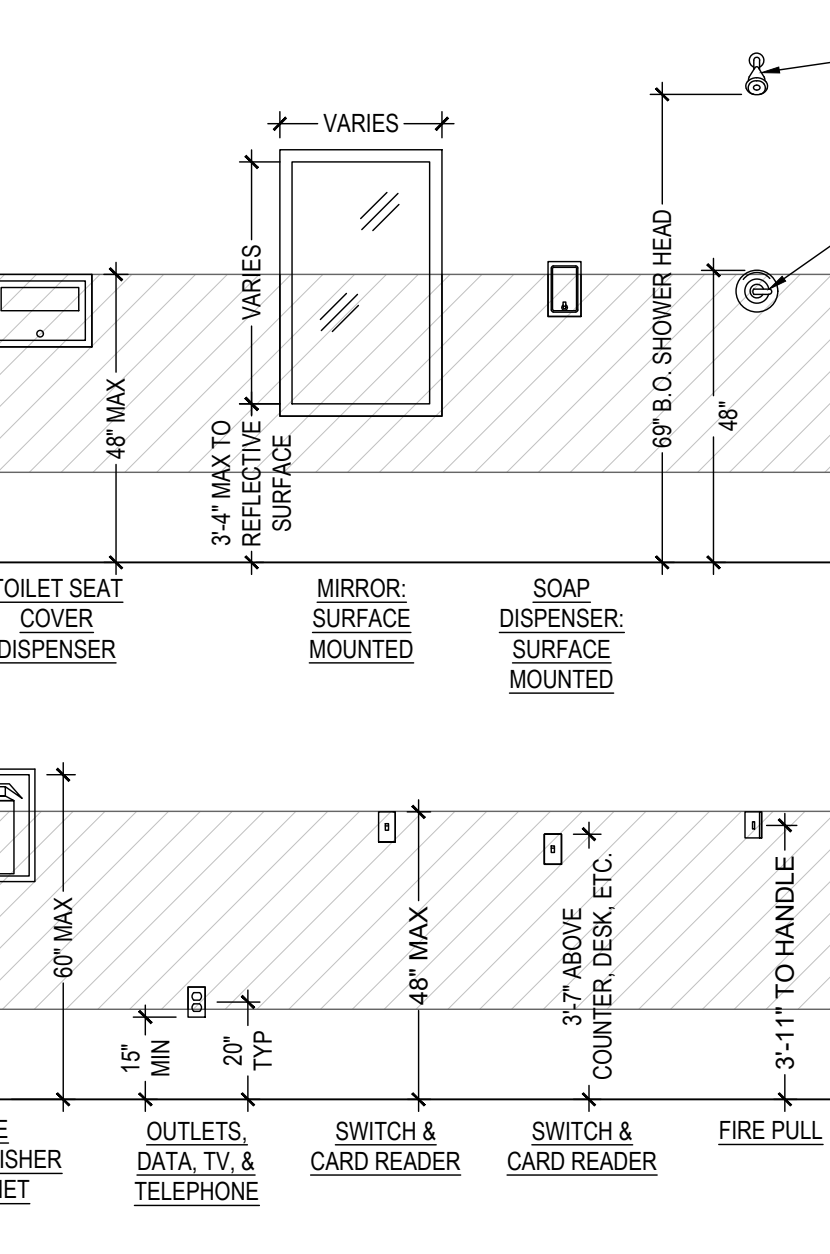
**HANDRAIL CROSS SECTION**

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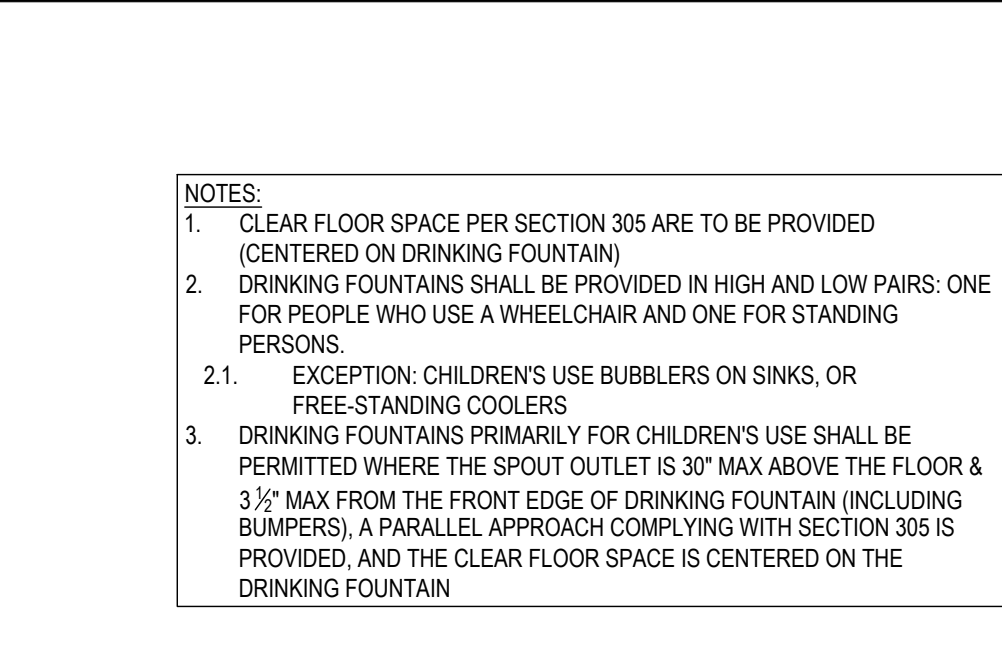
**LAVATORIES & SINKS**

SCALE: 3/8" = 1'-0"



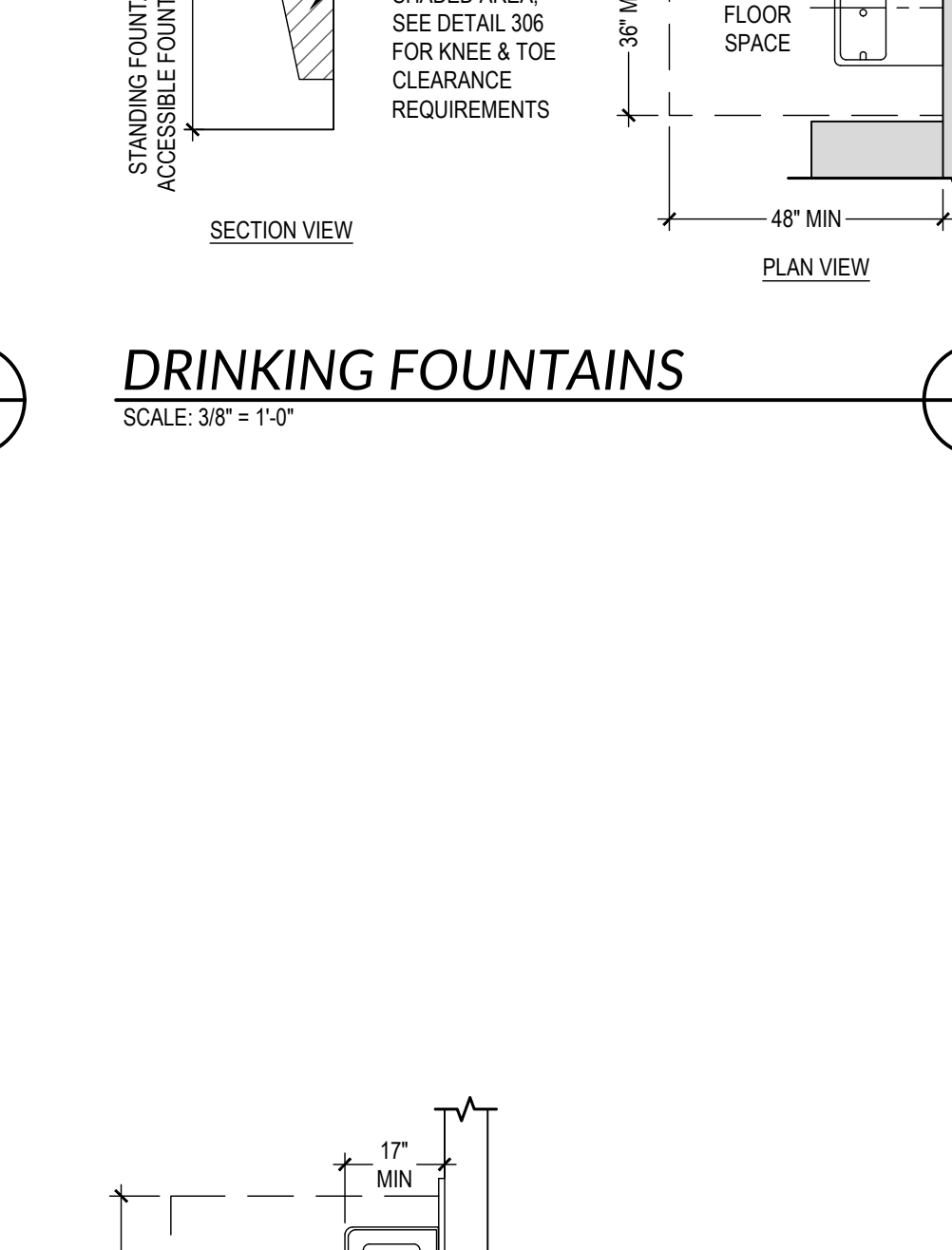
**CHILDREN'S USE FIXTURES**

SCALE: 3/8" = 1'-0"



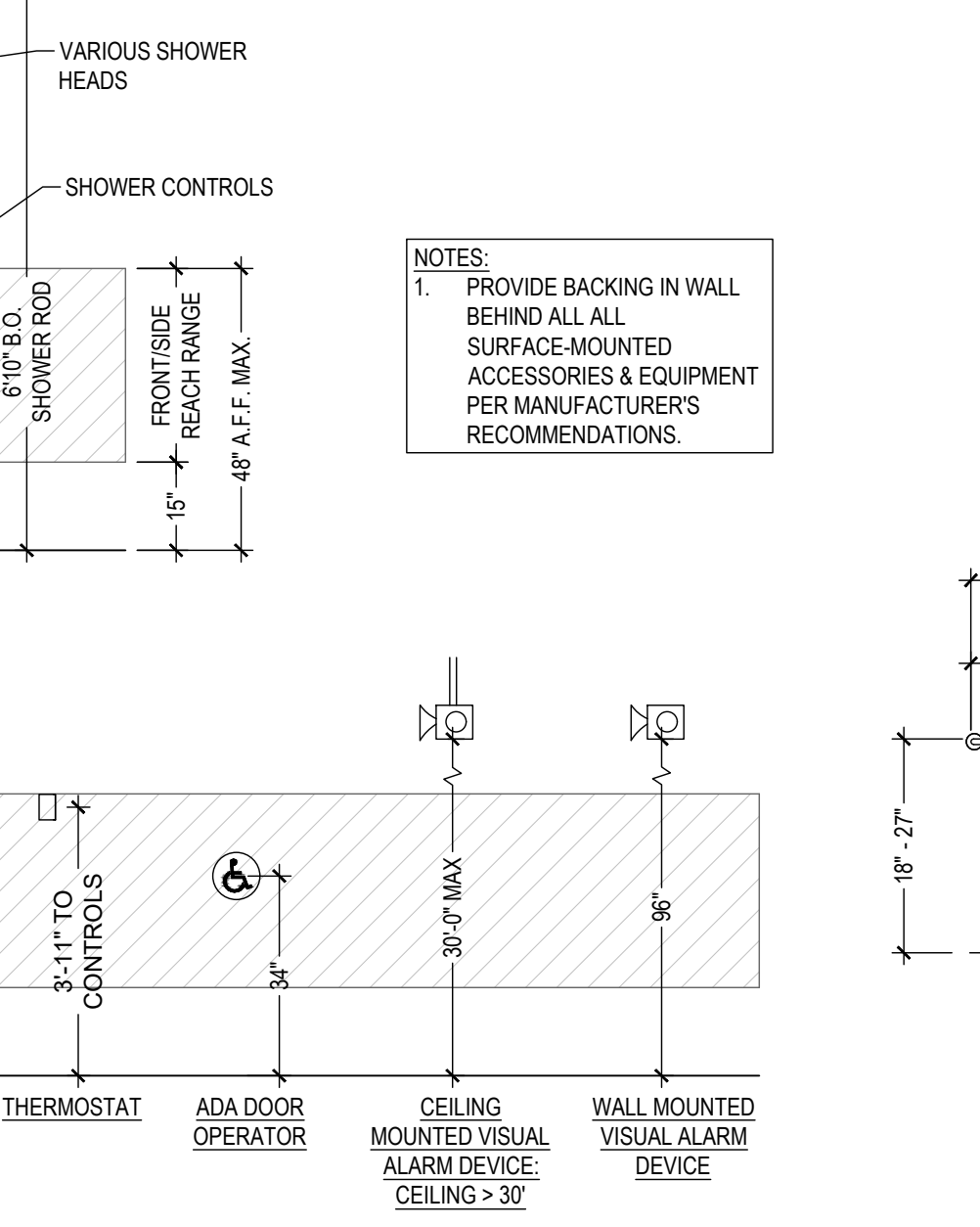
**DRINKING FOUNTAINS**

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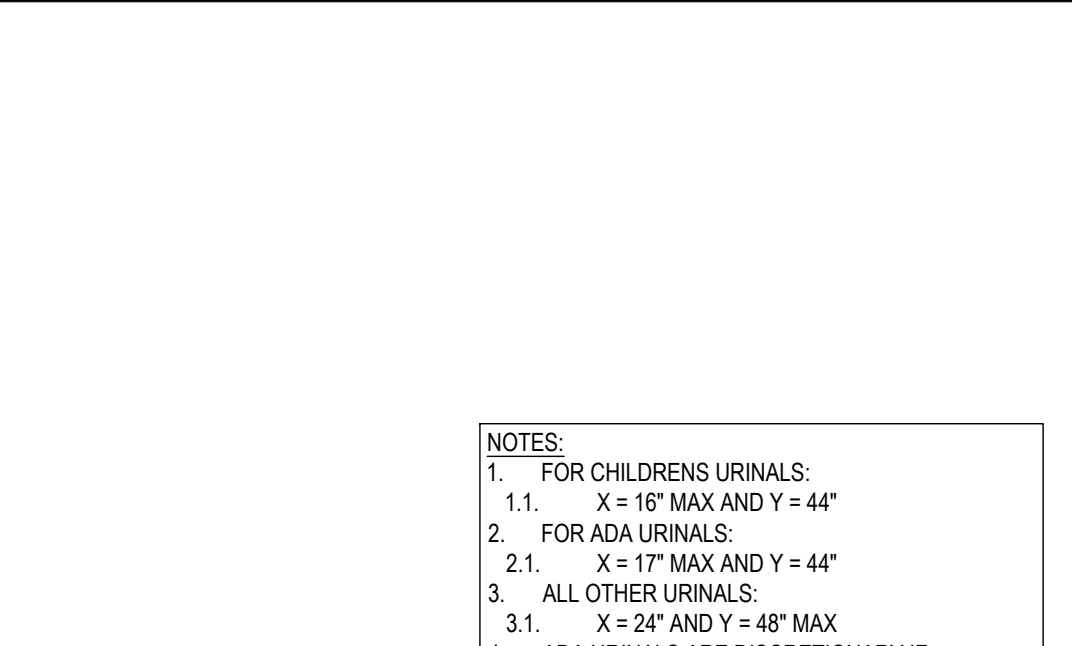
**LAVATORIES & SINKS**

SCALE: 3/8" = 1'-0"



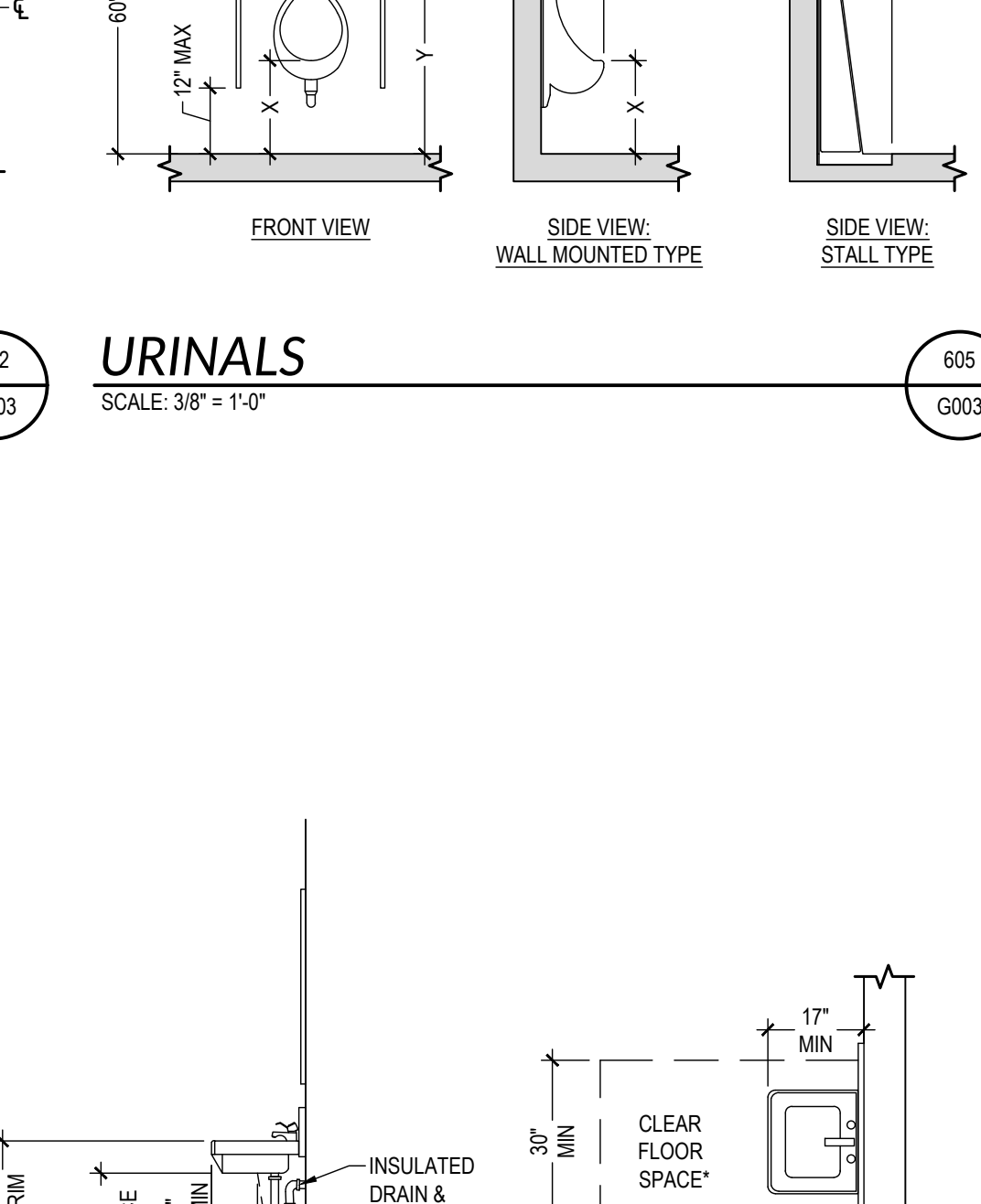
**CHILDREN'S USE FIXTURES**

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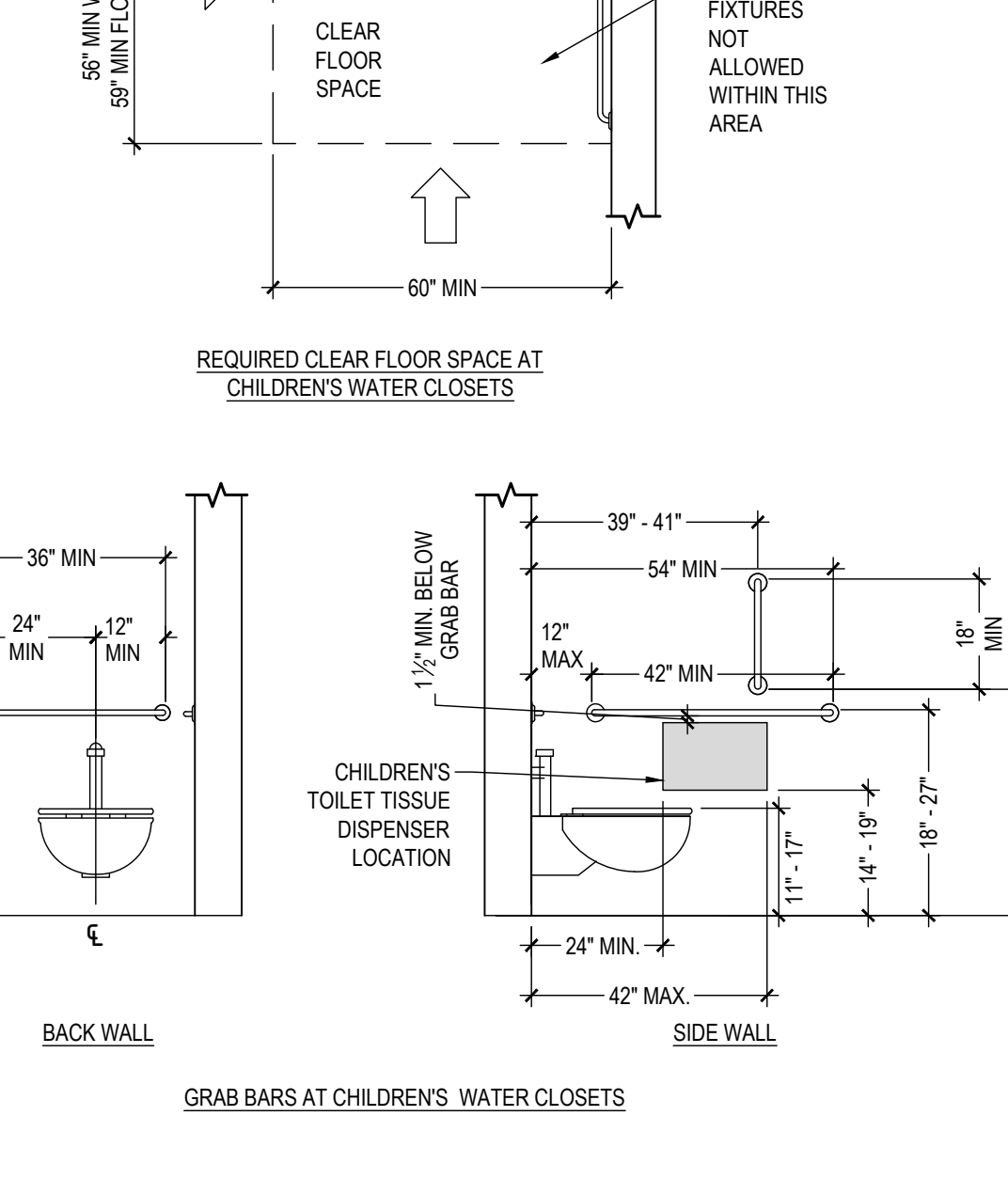
**URINALS**

SCALE: 3/8" = 1'-0"



**LAVATORIES & SINKS**

SCALE: 3/8" = 1'-0"



**CHILDREN'S USE FIXTURES**

SCALE: 3/8" = 1'-0"

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**DAVICINI ACADEMY REMODEL**  
215 22ND STREET  
OGDEN, UTAH

STATE OF UTAH  
1/24/22  
JARED STUART  
FORSYTH  
8304554-0309  
LICENSED ARCHITECT

DATE: 01/19/2022  
PROJECT: 21-311  
DRAWN BY: WM

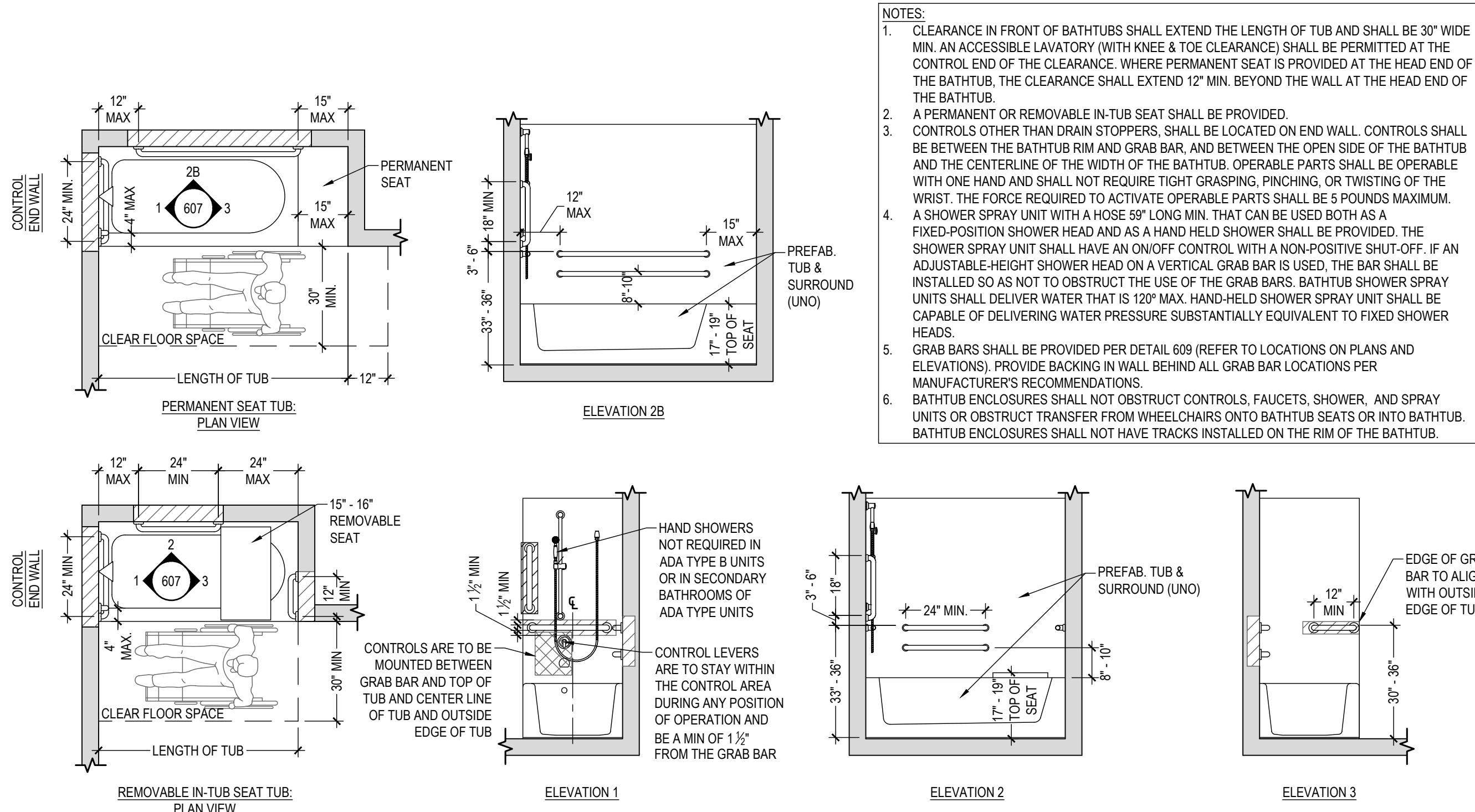
MARK	REVISIONS	DATE / DESC.

TYPICAL ADA DETAILS

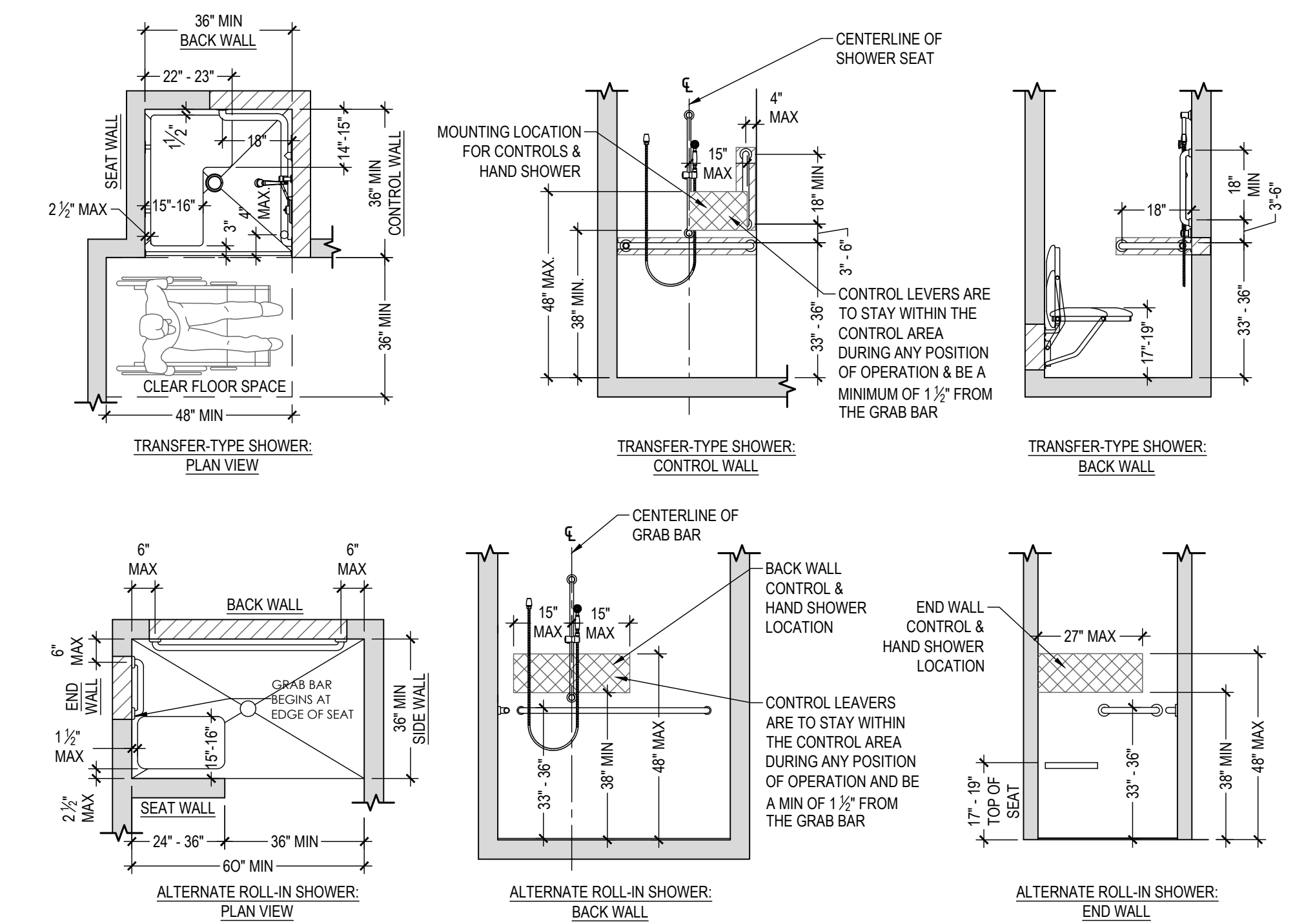
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# BATHTUBS

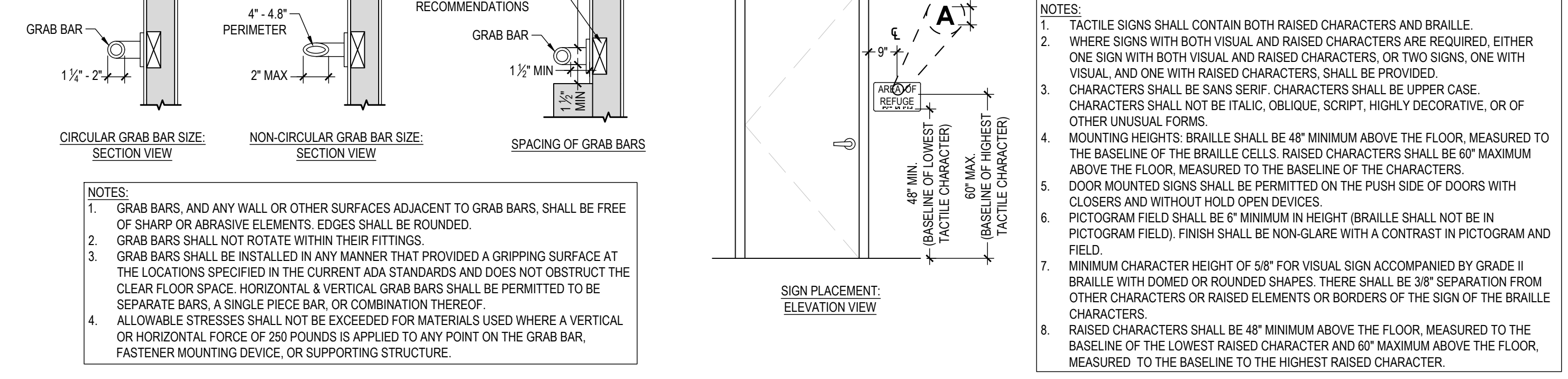
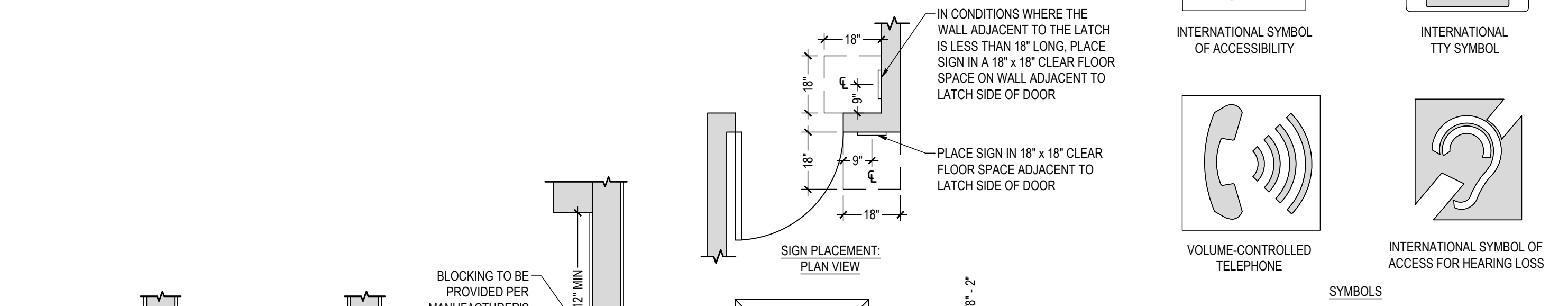
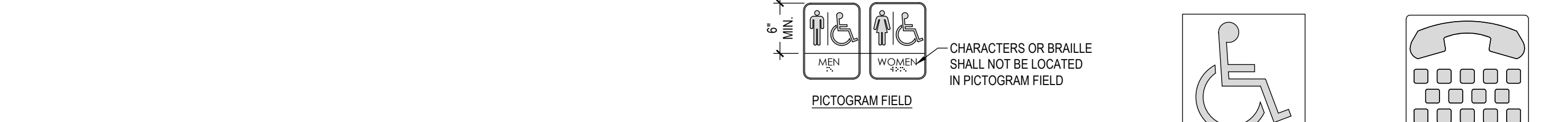
SCALE: 3/8" = 1'-0"



- NOTES:**
- CLEARANCE IN FRONT OF BATHTUBS SHALL EXTEND THE LENGTH OF TUB AND SHALL BE 30" WIDE MIN. AN ACCESSIBLE LAVATORY (WITH KNEE & TOE CLEARANCE) SHALL BE PERMITTED AT THE CONTROL END OF THE CLEARANCE. WHERE PERMANENT SEAT IS PROVIDED AT THE HEAD END OF THE BATHTUB, THE CLEARANCE SHALL EXTEND 12" MIN. BEYOND THE WALL AT THE HEAD END OF THE BATHTUB.
  - A PERMANENT OR REMOVABLE IN-TUB SEAT SHALL BE PROVIDED.
  - CONTROLS OTHER THAN DRAIN STOPPERS, SHALL BE LOCATED ON END WALL. CONTROLS SHALL BE BETWEEN THE BATHTUB RIM AND GRAB BAR, AND BETWEEN THE OPEN SIDE OF THE BATHTUB AND THE CENTERLINE OF THE WIDTH OF THE BATHTUB. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
  - A SHOWER SPRAY UNIT WITH A HOSE 5' LONG MIN. THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL GRAB BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF THE GRAB BARS. BATHTUB SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120" MAX. HAND-HELD SHOWER SPRAY UNIT SHALL BE CAPABLE OF DELIVERING WATER PRESSURE SUBSTANTIALLY EQUIVALENT TO FIXED SHOWER HEADS.
  - GRAB BARS SHALL BE PROVIDED PER DETAIL 609 (REFER TO LOCATIONS ON PLANS AND ELEVATIONS). PROVIDE BACKING IN WALL BEHIND ALL GRAB BAR LOCATIONS PER MANUFACTURER'S RECOMMENDATIONS.
  - BATHTUB ENCLOSURES SHALL NOT OBSTRUCT CONTROLS, FAUCETS, SHOWER, AND SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO BATHTUB SEATS OR INTO BATHTUB. BATHTUB ENCLOSURES SHALL NOT HAVE TRACKS INSTALLED ON THE RIM OF THE BATHTUB.



- NOTES:**
- GRAB BARS SHALL BE PROVIDED PER DETAIL 609 (REFER TO LOCATIONS ON PLANS AND ELEVATIONS). PROVIDE BACKING IN WALL BEHIND ALL GRAB BAR LOCATIONS PER MANUFACTURER'S RECOMMENDATIONS.
  - IN STANDARD ROLL-IN TYPE SHOWERS, AN ACCESSIBLE LAVATORY SHALL BE PERMITTED ON ONE 30" WIDE MIN. SIDE OF THE CLEARANCE PROVIDED THAT IT IS NOT ON THE SIDE OF THE CLEARANCE ADJACENT TO THE CONTROLS OR, WHERE PROVIDED, NOT ON THE SIDE OF THE CLEARANCE ADJACENT TO THE SHOWER SEAT.
  - THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2" HIGH MAX. WITH A 1:2 BEVEL.
  - A SEAT IS NOT REQUIRED TO BE INSTALLED IN A SHOWER FOR A SINGLE OCCUPANT, ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE, PROVIDED REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF A SHOWER SEAT.
  - A SHOWER SPRAY UNIT WITH A HOSE 5' LONG MIN. THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL GRAB BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF THE GRAB BARS. SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120" MAX. HAND-HELD SHOWER SPRAY UNIT SHALL BE CAPABLE OF DELIVERING WATER PRESSURE SUBSTANTIALLY EQUIVALENT TO FIXED SHOWER HEADS.
  - SHOWER ENCLOSURES SHALL NOT OBSTRUCT CONTROLS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS

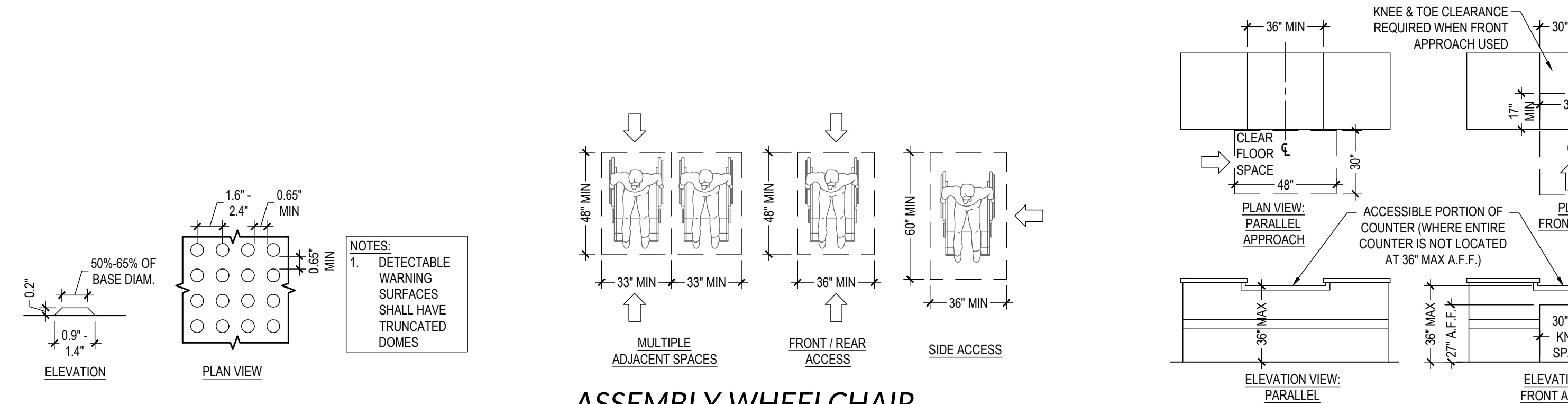


# GRAB BARS

SCALE: 1 1/2" = 1'-0"

# SIGNS - TACTILE & VISUAL

NOT TO SCALE



# TRUNCATED DOMES

SCALE: 1 1/2" = 1'-0"

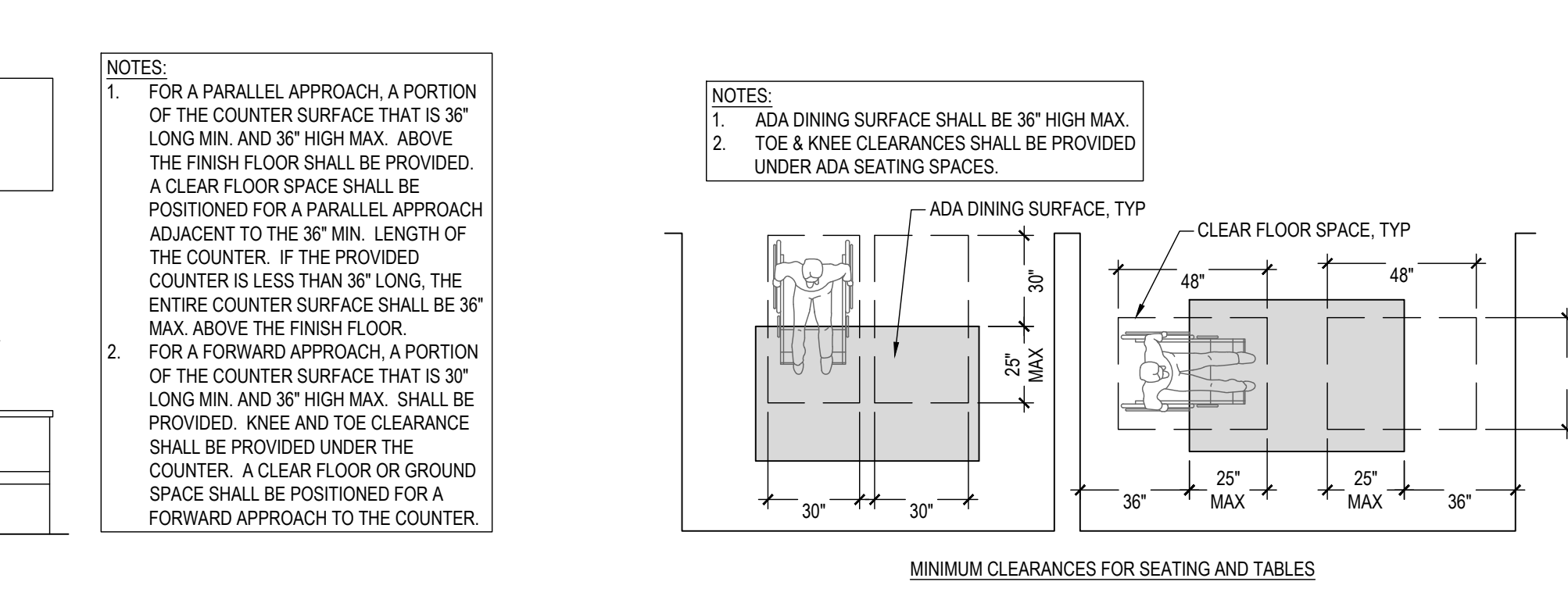
# WORK SURFACES

SCALE: 1/2" = 1'-0"

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

# SHOWER COMPARTMENTS

SCALE: 3/8" = 1'-0"

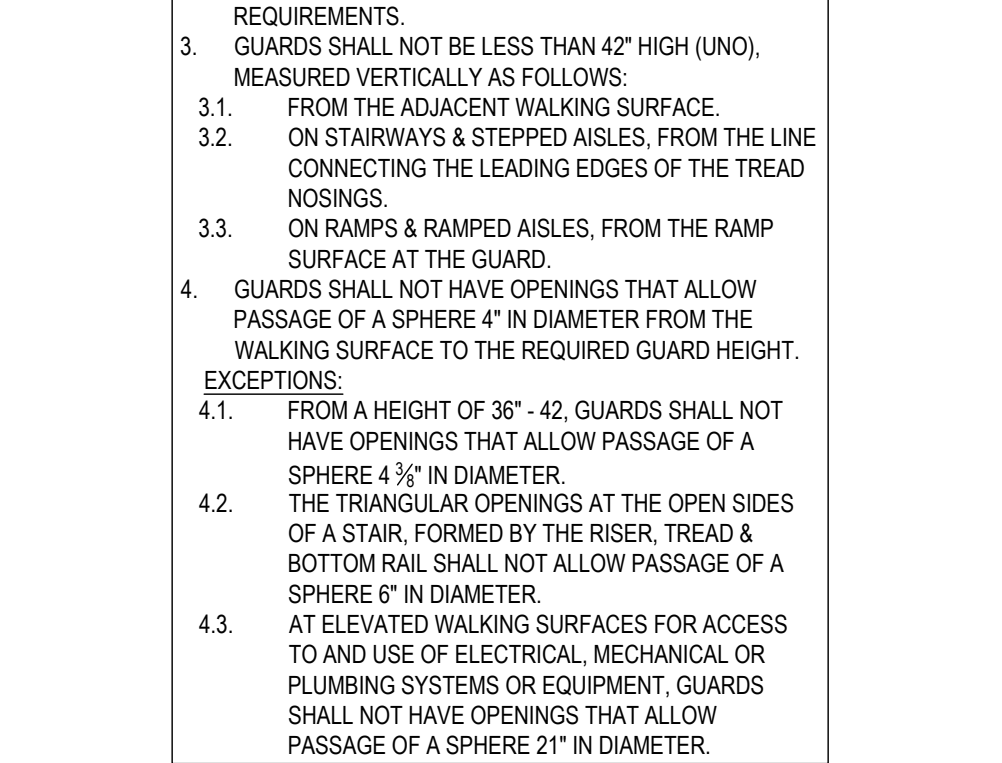


# DINING SURFACES

SCALE: 1/2" = 1'-0"

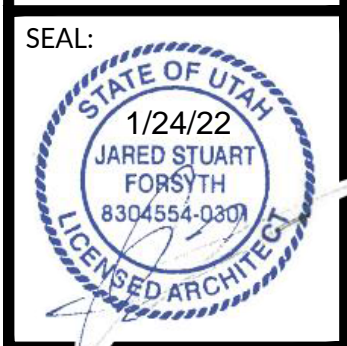
# GUARDS

SCALE: 3/8" = 1'-0"



# GUARDS

SCALE: 3/8" = 1'-0"



DATE: 01/19/2022  
 PROJECT: 21-311  
 DRAWN BY: WM

MARK	REVISIONS	DATE / DESC.

TYPICAL ADA DETAILS

SHEET NUMBER: **G004**

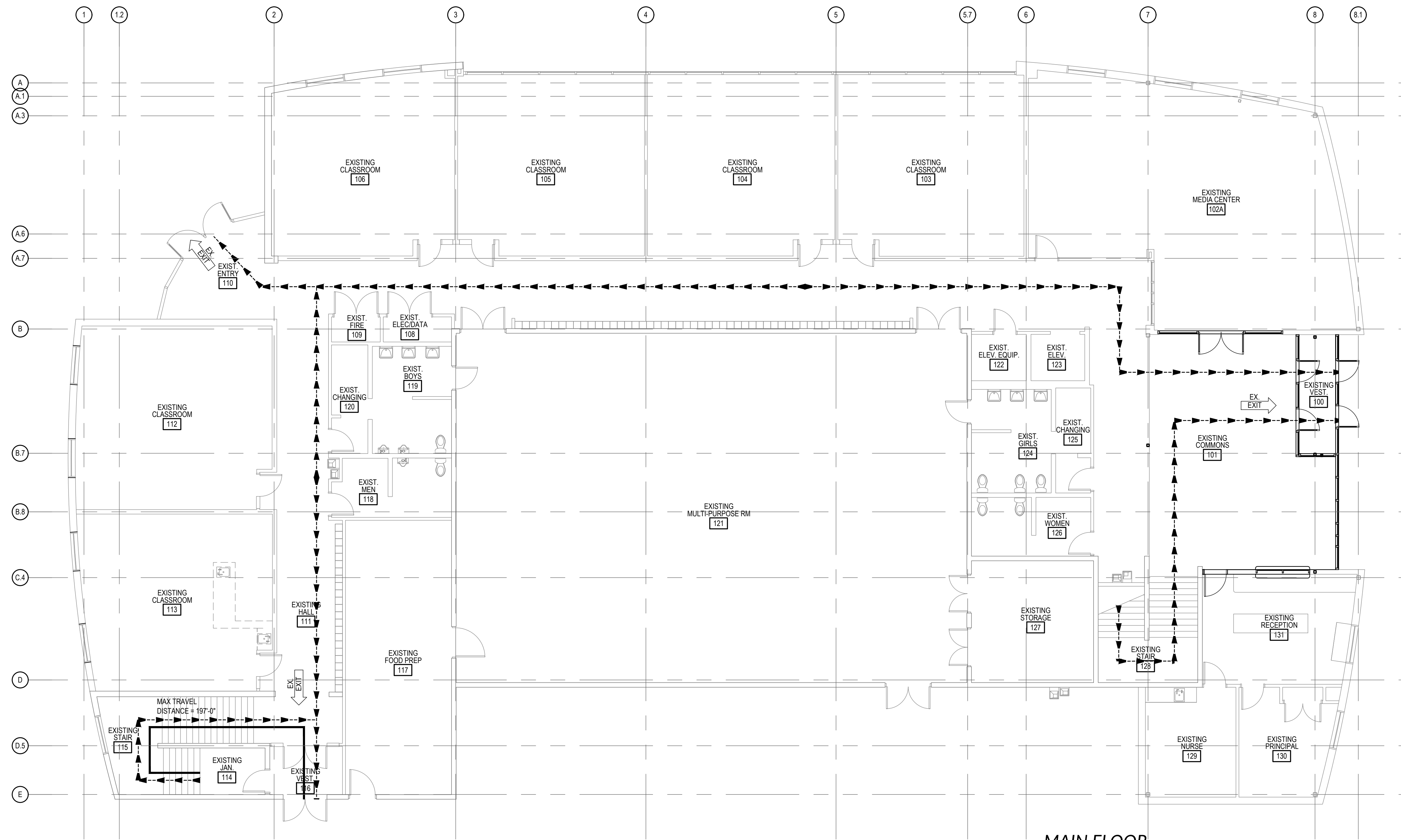
NOT ALL DETAILS MAY BE APPLICABLE. ALL DETAILS & FIXTURES TO COMPLY WITH ICC A117.1-2009.

**LIFE SAFETY PLAN NOTES**

1. THE MAXIMUM ALLOWABLE TRAVEL DISTANCE FOR THIS BUILDING IS XXX' PER IBC TABLE 1017.2.2.2.
2. UPON COMPLETION OF THIS PROJECT, PROVIDE FIRE EXTINGUISHERS WITH A MIN RATING OF 2A10BC. FIRE EXTINGUISHERS SHALL BE PLACED TO ENABLE A TRAVEL DISTANCE NOT MORE THAN 75' TO ACCESS FROM ANY POINT IN THE FACILITY.
3. THE CAPACITY OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2' PER OCCUPANT (PER 2018 IBC 1005.3.2).

**LEGEND**

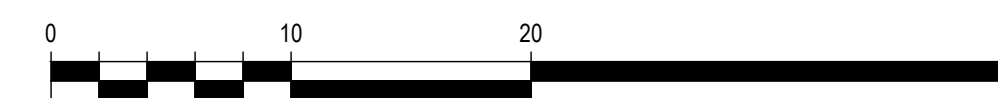
SYMBOL	DESCRIPTION
	EXIT DOORWAY OR STAIR
	EXISTING EXIT
	COMMON PATH OF EGRESS TRAVEL PER IBC SECTION 1006.2.1
	ACTUAL MAXIMUM TRAVEL DISTANCE
	EXIT PATH



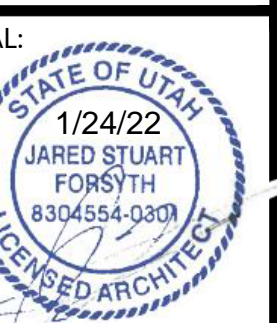
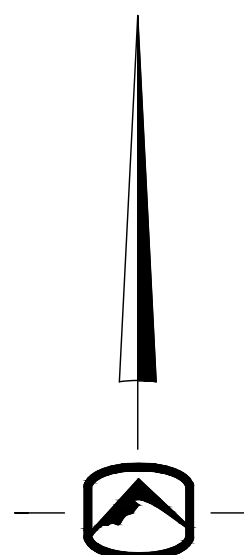
MAX TRAVEL DISTANCE = 197'-0"

**MAIN FLOOR  
LIFE SAFETY PLAN**

SCALE: 1/8" = 1'-0"



1  
G010



DATE: 01/19/2022  
PROJECT: 21-311  
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LIFE SAFETY PLAN

SHEET NUMBER:

**G010**

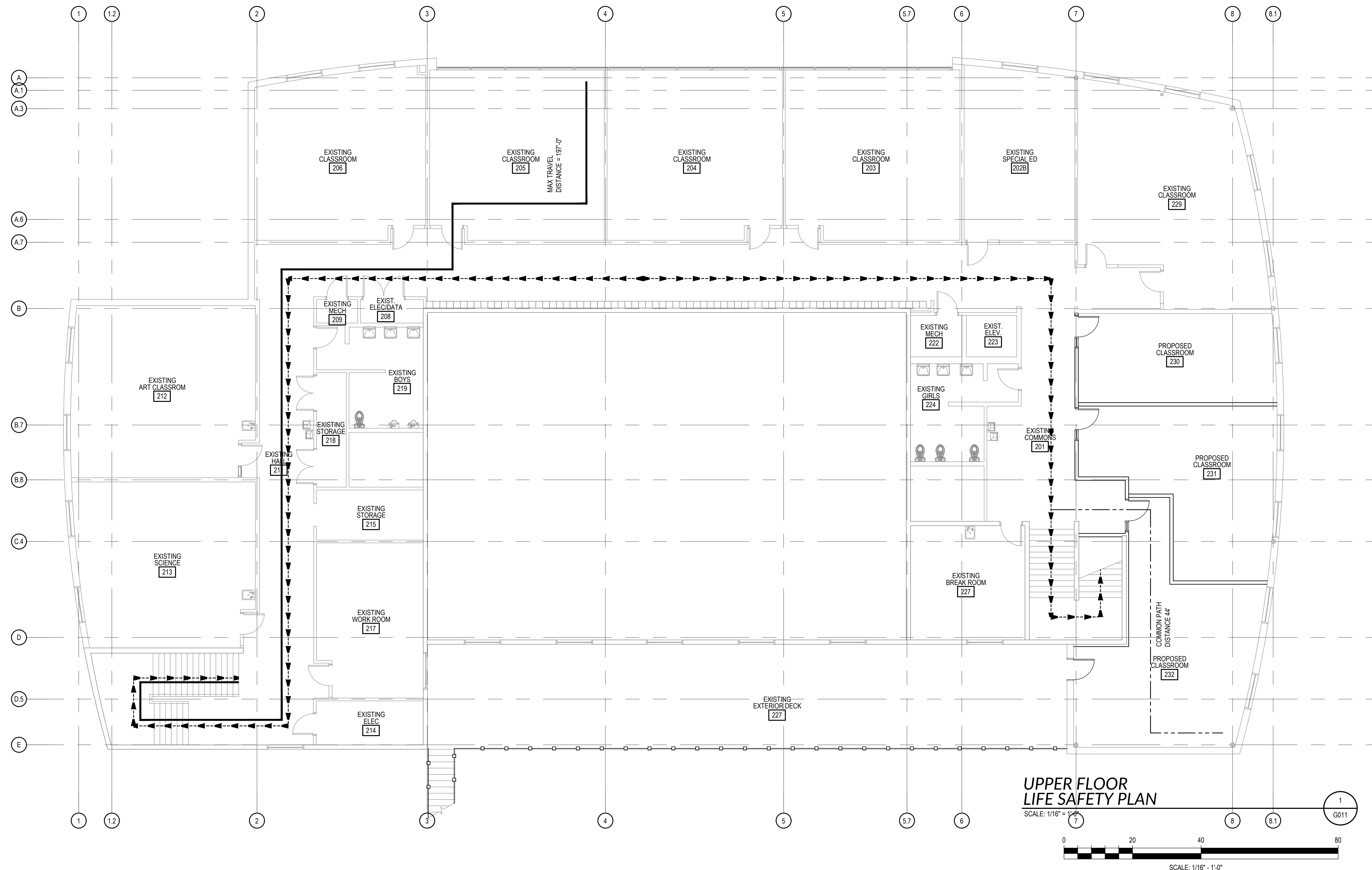
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

**LIFE SAFETY PLAN NOTES**

1. THE MAXIMUM ALLOWABLE TRAVEL DISTANCE FOR THIS BUILDING IS XXX' PER IBC TABLE 1017.2.2.2.
2. UPON COMPLETION OF THIS PROJECT, PROVIDE FIRE EXTINGUISHERS WITH A MIN RATING OF 2A10BC. FIRE EXTINGUISHERS SHALL BE PLACED TO ENABLE A TRAVEL DISTANCE NOT MORE THAN 75' TO ACCESS FROM ANY POINT IN THE FACILITY.
3. THE CAPACITY OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2' PER OCCUPANT (PER 2018 IBC 1005.3.2).

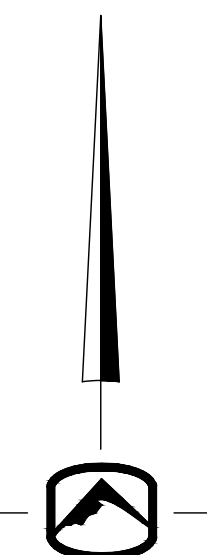
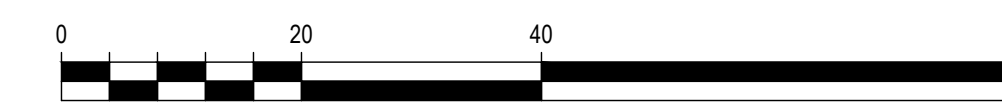
**LEGEND**

SYMBOL	DESCRIPTION
	EXIT DOORWAY OR STAIR
	EXISTING EXIT
	COMMON PATH OF EGRESS TRAVEL PER IBC SECTION 1006.2.1
	ACTUAL MAXIMUM TRAVEL DISTANCE
	EXIT PATH



**UPPER FLOOR  
LIFE SAFETY PLAN**

SCALE: 1/16" = 1'-0"



DATE: 01/19/2022  
PROJECT: 21-311  
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REVISIONS	
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LIFE SAFETY PLAN

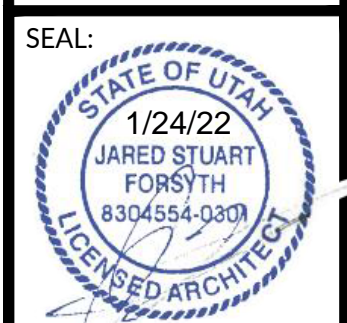
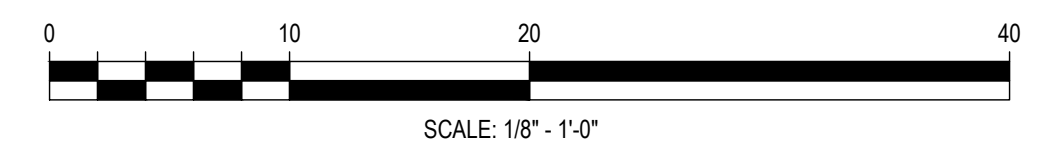
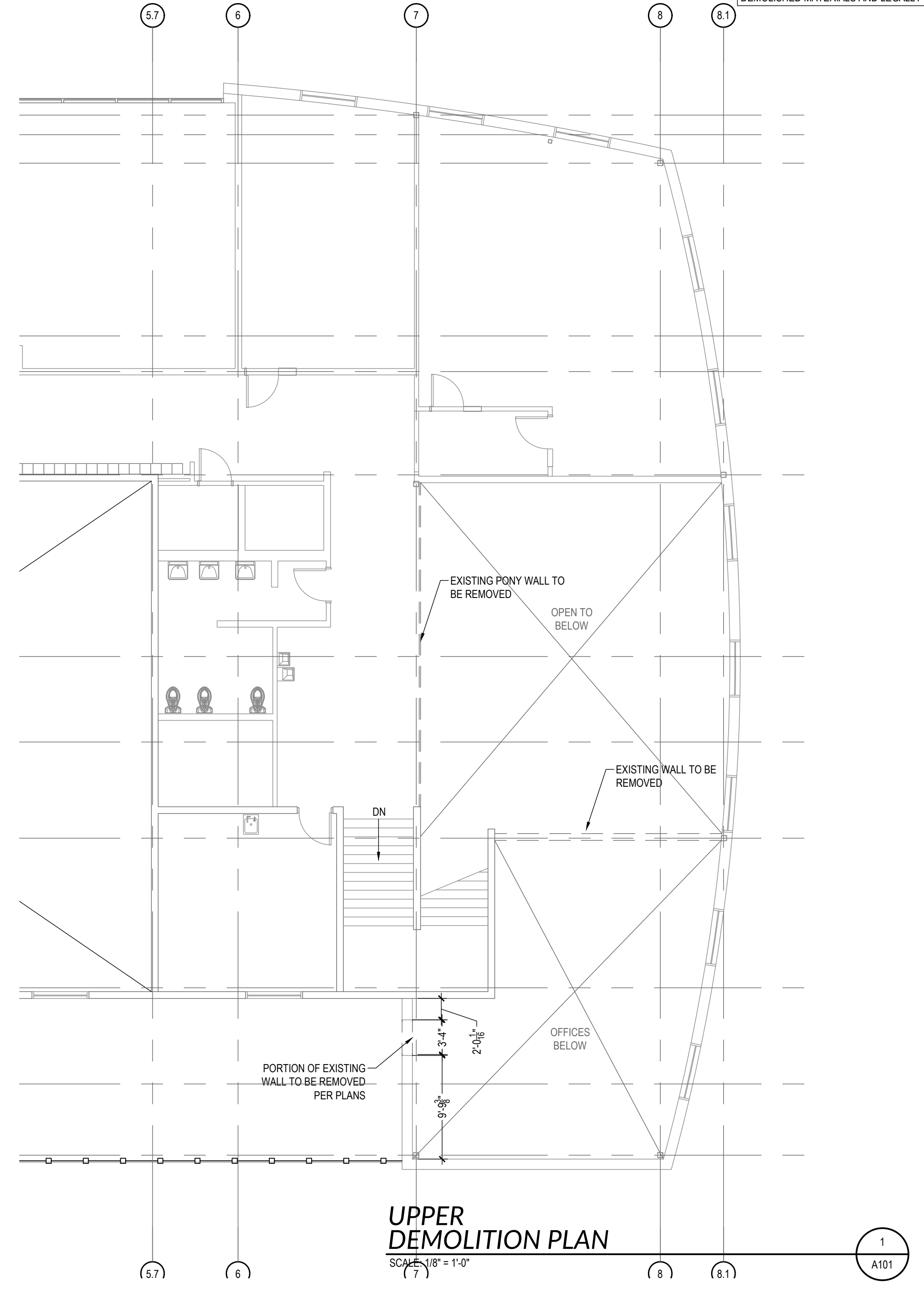
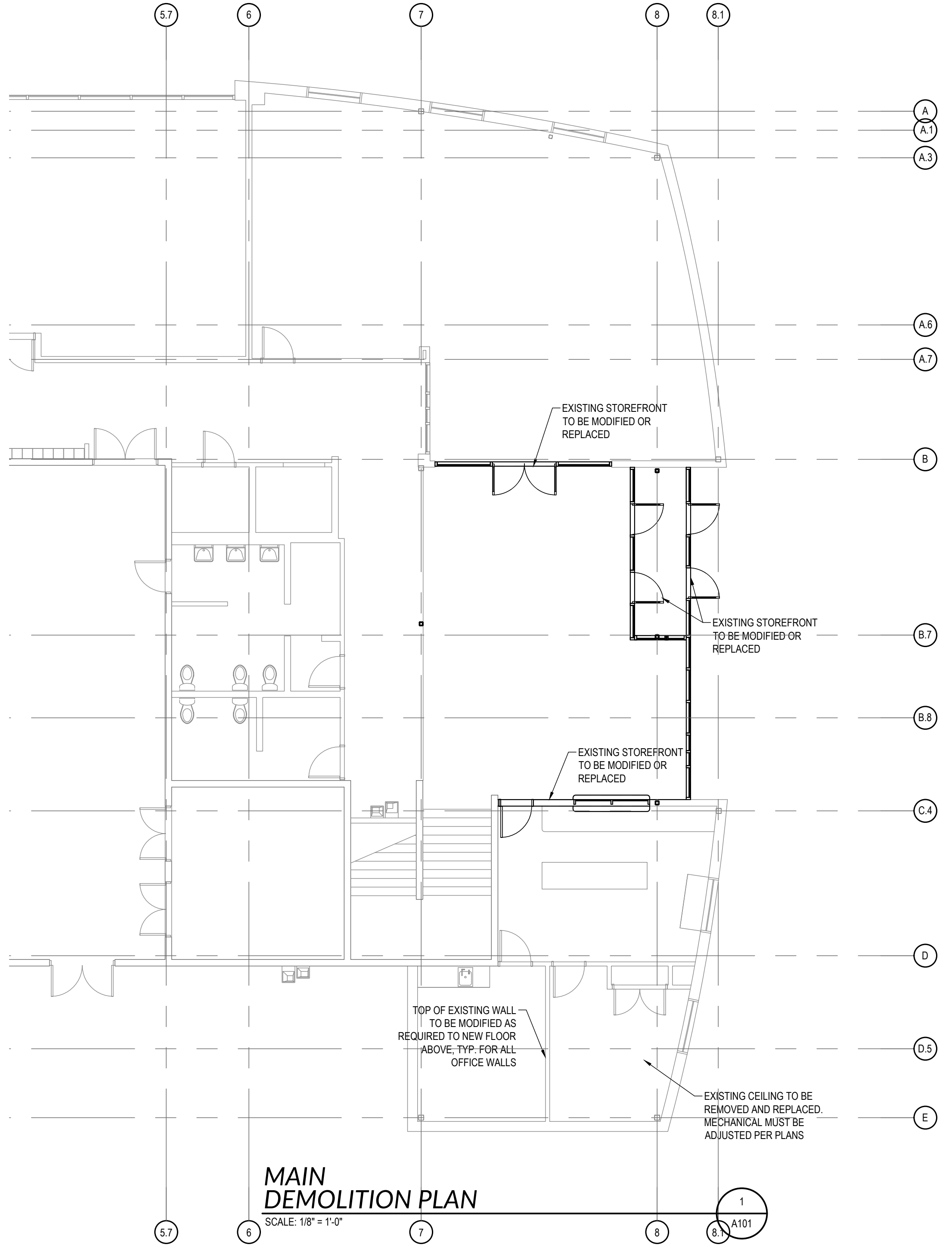
SHEET NUMBER:

**G011**

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

**DEMOLITION GENERAL NOTES**

1. CONTRACTOR TO COORDINATE DEMOLITION WORK SEQUENCE. REFERENCE PHASING DRAWINGS WHERE APPLICABLE.
2. DEMOLITION DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BUILDING AND SITE CONDITIONS.
3. DEMOLITIONS DRAWINGS GENERALLY INDICATE EXISTING SCOPE OF WORK TO BE DEMOLISHED AND ARE NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF WORK TO BE REMOVED IN ORDER TO ACCOMPLISH SCOPE OF NEW CONSTRUCTION. WHERE THESE CONDITIONS OCCUR OUTSIDE OF THE DEMOLITION LIMITS, AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS PART OF THE NEW CONSTRUCTION SCOPE OF WORK.
4. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONSTRUCTION AND CONSTRUCTION DOCUMENTS.
5. REFERENCE STRUCTURAL, CIVIL, AND MEP DRAWINGS FOR OTHER DISCIPLINE DEMOLITION SCOPE OF WORK.
6. WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES OR OTHER WALL MOUNTED ITEMS ARE SCHEDULED TO BE SALVAGED, REFERENCE CONSTRUCTION DRAWINGS FOR NEW LOCATIONS OR COORDINATE WITH OWNER FOR STORAGE LOCATION.
7. PARTITIONS SCHEDULED TO BE REMOVED; DEMOLITION SHOULD INCLUDE MISCELLANEOUS BRACING, TRACK, ETC. TO BOTTOM OF STRUCTURE.
8. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS UNOBSTRUCTED, ILLUMINATED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
9. CONTRACTOR TO CLEAN AREAS ADJACENT TO DEMOLITION AREA OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITIONS OPERATIONS.
10. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. TRANSPORT DEMOLISHED MATERIALS AND LEGALLY DISPOSE OF THEM.



DATE: 01/19/2022  
PROJECT: 21-311  
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DEMOLITION PLAN

SHEET NUMBER:  
**A101**

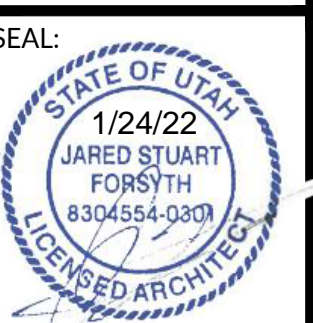
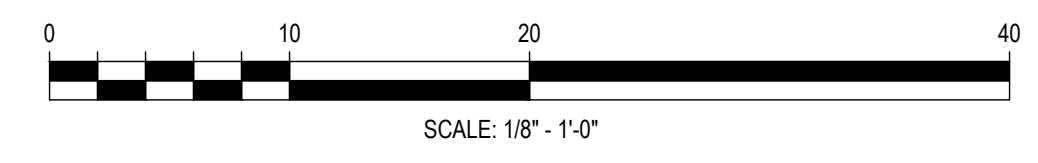
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

**FLOOR PLAN NOTES**

1. SEE TYPICAL ADA DETAILS ON SHEETS G002, G003 & G004.



**OVERALL LEVEL 1 FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



DATE: 01/19/2022  
PROJECT: 21-311  
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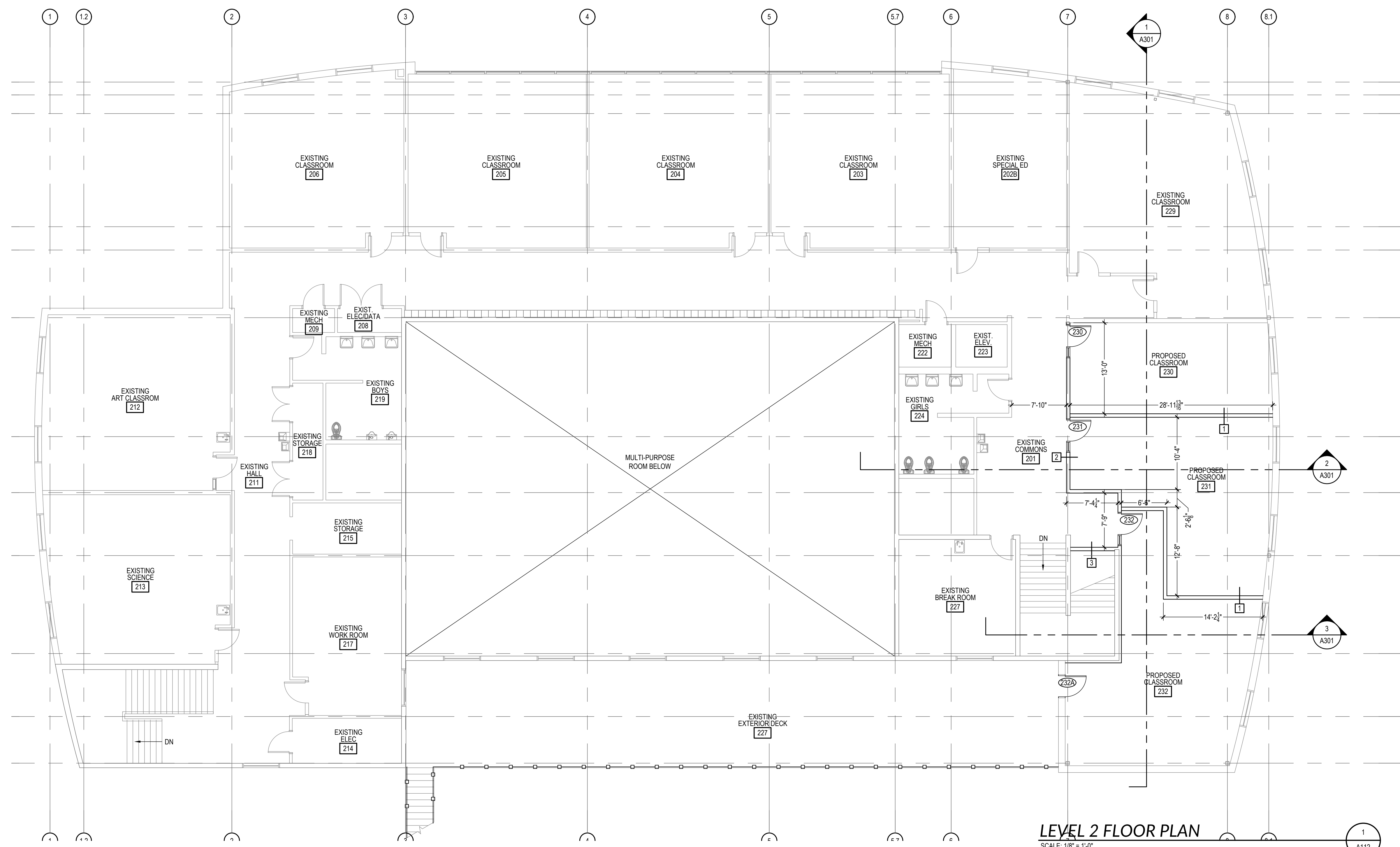
REVISIONS	
MARK	DATE / DESC.

OVERALL LEVEL 1 FLOOR PLAN

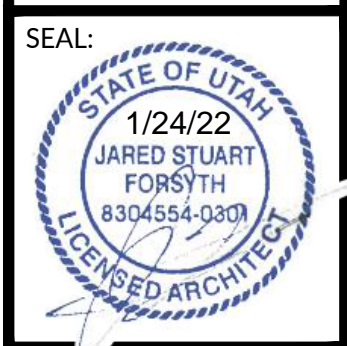
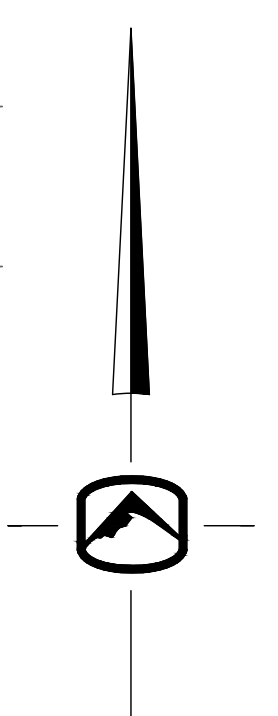
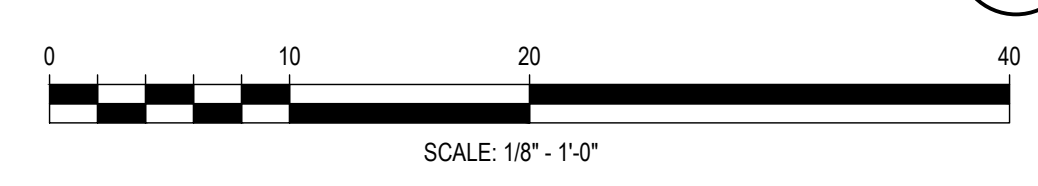
SHEET NUMBER:  
**A111**

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.





**LEVEL 2 FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



DATE: 01/19/2022  
PROJECT: 21-311  
DRAWN BY: CJ

REVISIONS	
MARK	DATE / DESC.

LEVEL 1  
FLOOR PLAN  
AREA A

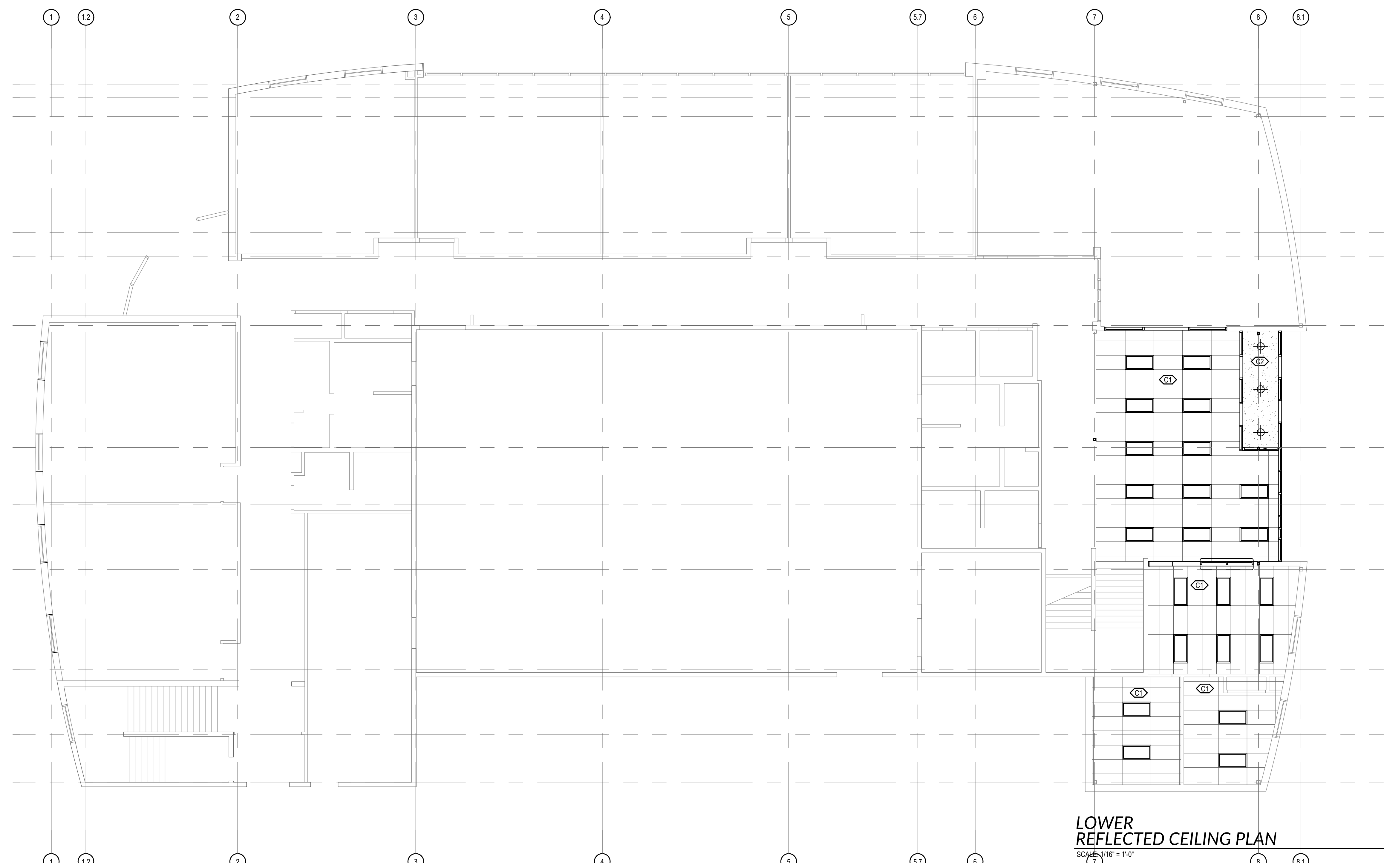
SHEET NUMBER:  
**A112**

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

**REFLECTED CEILING PLAN NOTES**

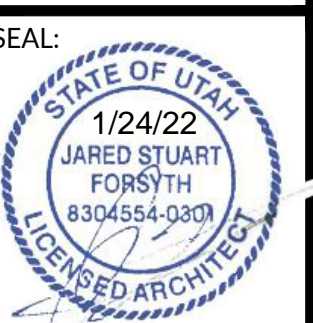
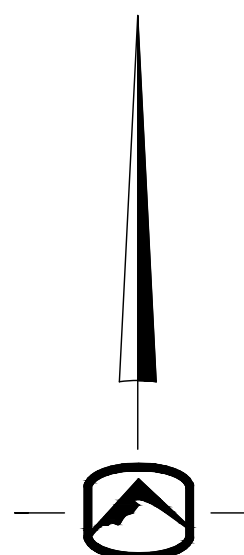
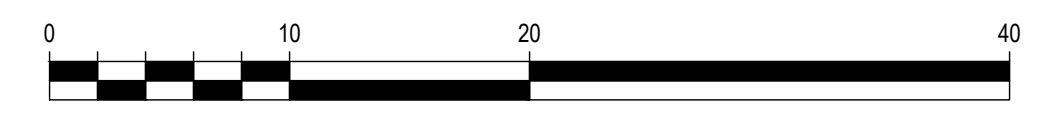
1. EXISTING CEILING AND LIGHTS NOT SHOWN FOR CLARITY

CEILING TYPES	
MARK	DESCRIPTION
◁CI▷	2' X 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM AT 8'-0" A.F.F. (U.N.O.) (MATCH EXISTING CONDITIONS)
◁G2▷	5/8" GYPSUM BOARD (U.N.O.) 8'-0" A.F.F. (MATCH EXISTING CONDITIONS)
◁EX▷	EXPOSED STRUCTURE



**LOWER REFLECTED CEILING PLAN**

SCALE: 1/16" = 1'-0"



DATE: 01/19/2022  
 PROJECT: 21-311  
 DRAWN BY: WM

REVISIONS	
MARK	DATE / DESC.

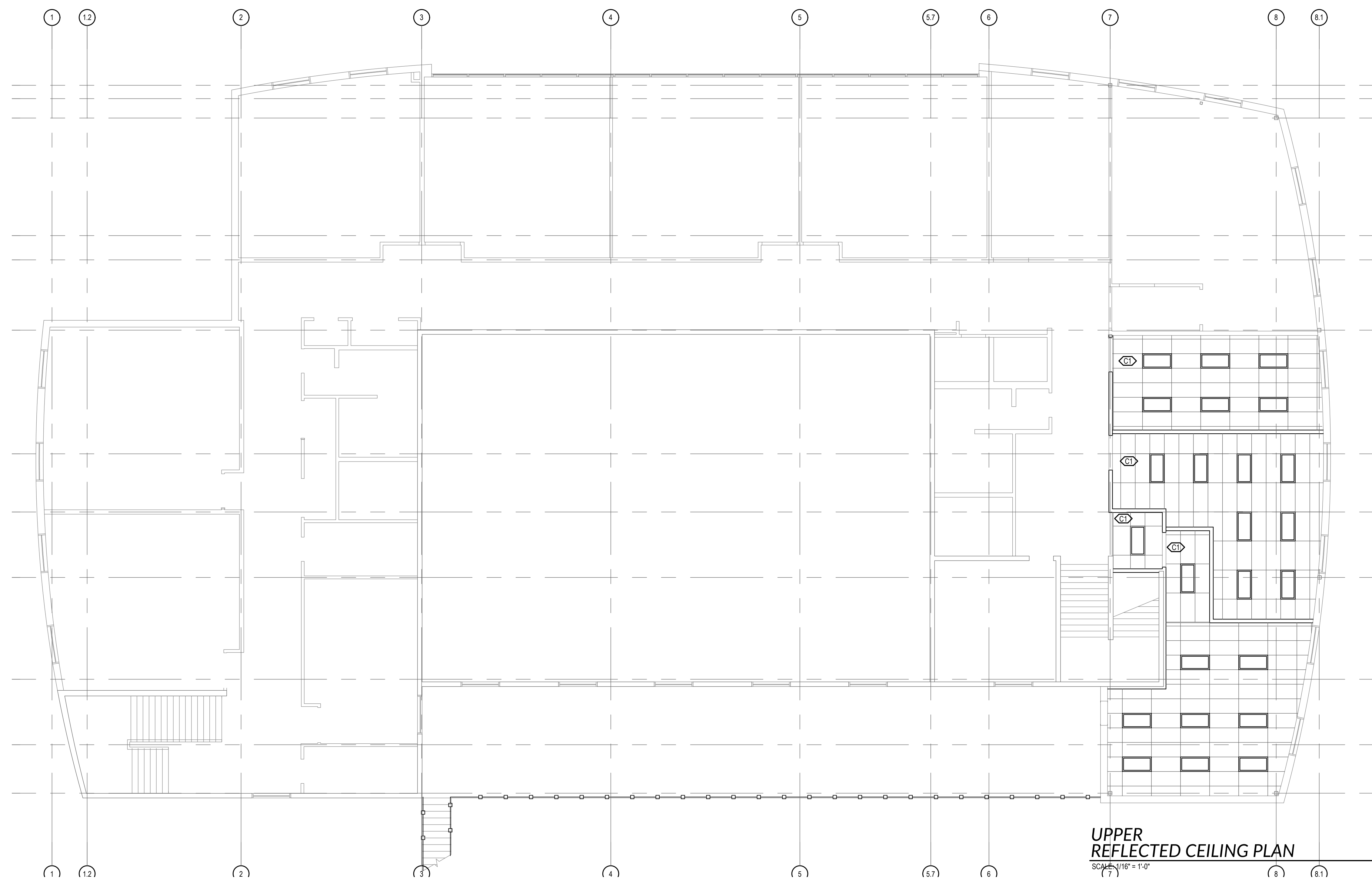
REFLECTED CEILING PLANS

SHEET NUMBER:  
**A141**

**REFLECTED CEILING PLAN NOTES**

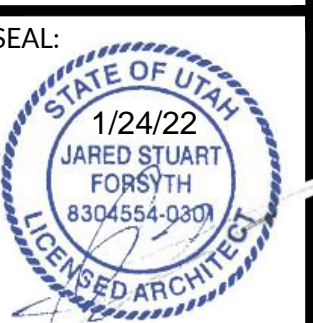
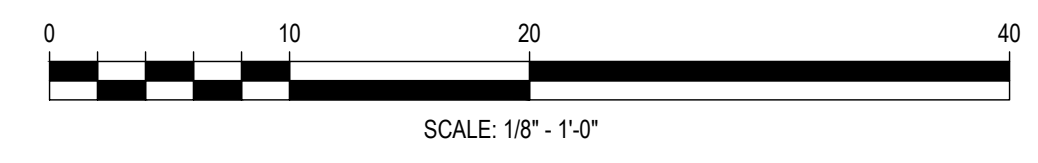
1. EXISTING CEILING AND LIGHTS NOT SHOWN FOR CLARITY

CEILING TYPES	
MARK	DESCRIPTION
C1	2' X 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM AT 8'-0" A.F.F. (U.N.O.) (MATCH EXISTING CONDITIONS)
C2	5/8" GYPSUM BOARD (U.N.O.) 8'-0" A.F.F. (MATCH EXISTING CONDITIONS)
EX	EXPOSED STRUCTURE



**UPPER REFLECTED CEILING PLAN**

SCALE: 1/16" = 1'-0"

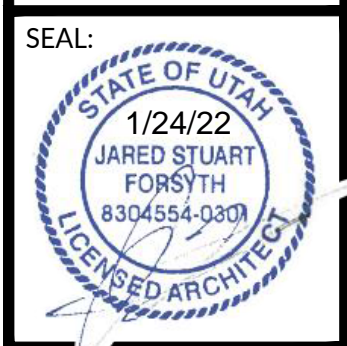


DATE: 01/19/2022  
 PROJECT: 21-311  
 DRAWN BY: WM

REVISIONS	
MARK	DATE / DESC.

REFLECTED CEILING DETAILS & NOTES

SHEET NUMBER:  
**A142**

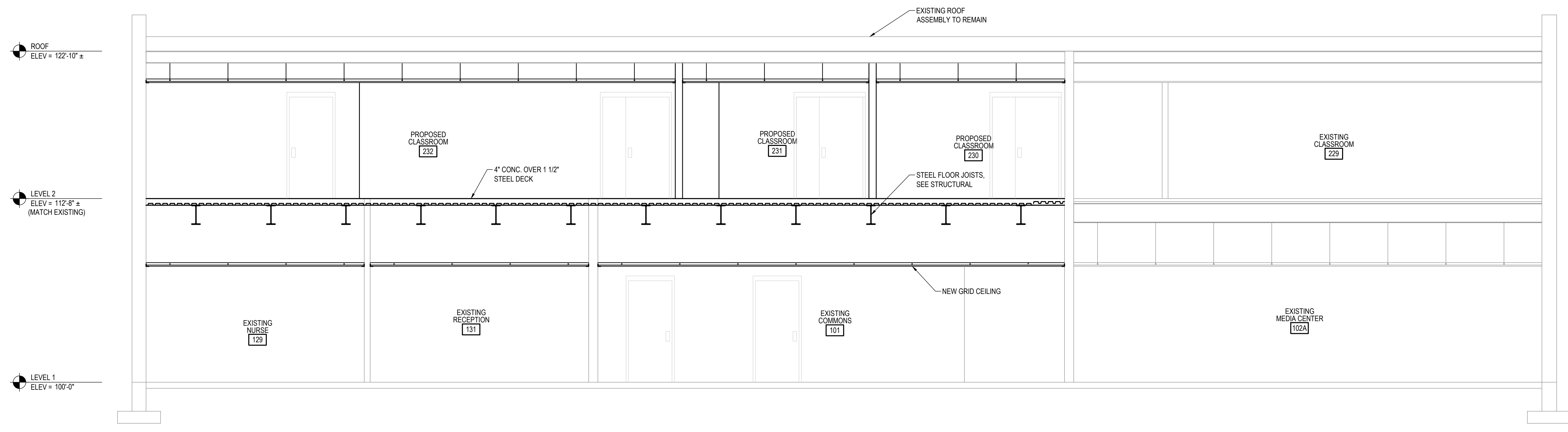


DATE: 01/19/2022  
PROJECT: 21-311  
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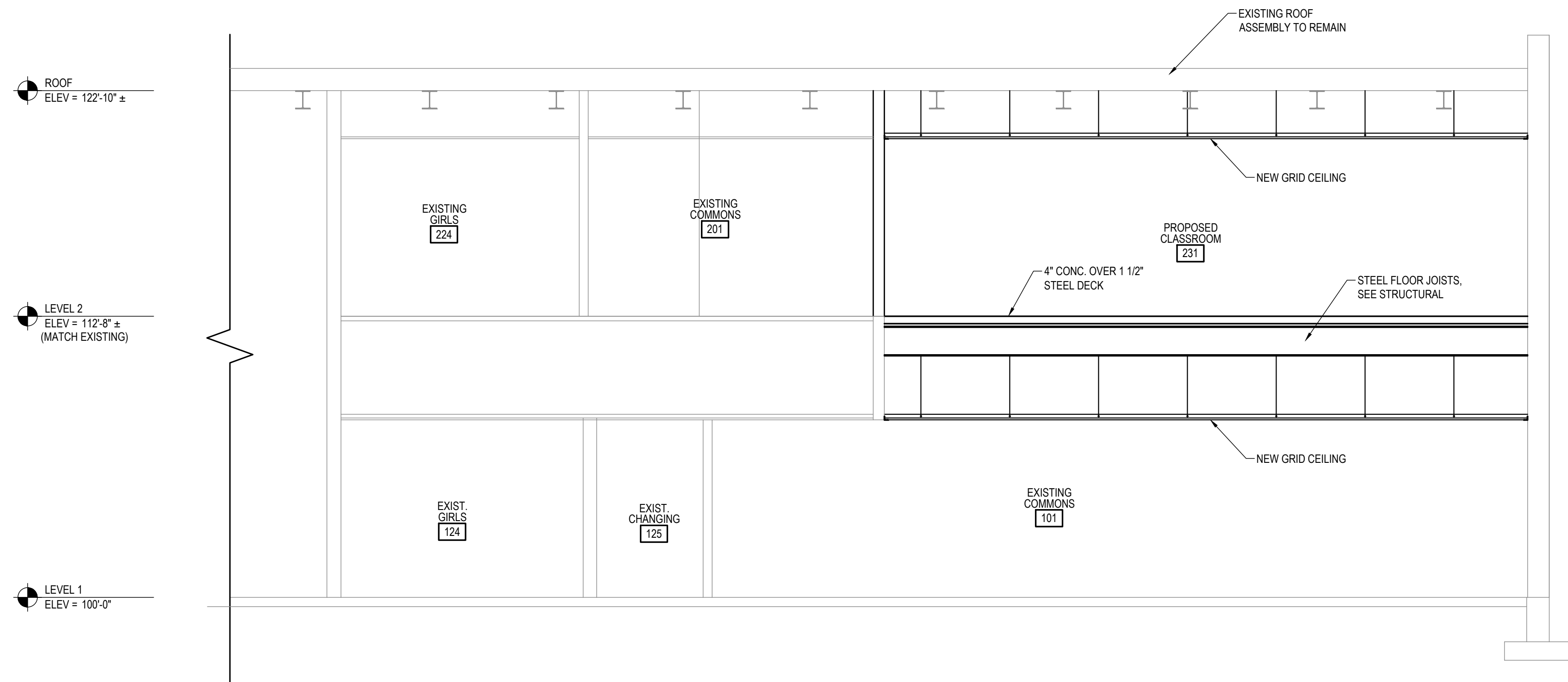
REVISIONS	
MARK	DATE / DESC.

**BUILDING SECTIONS**

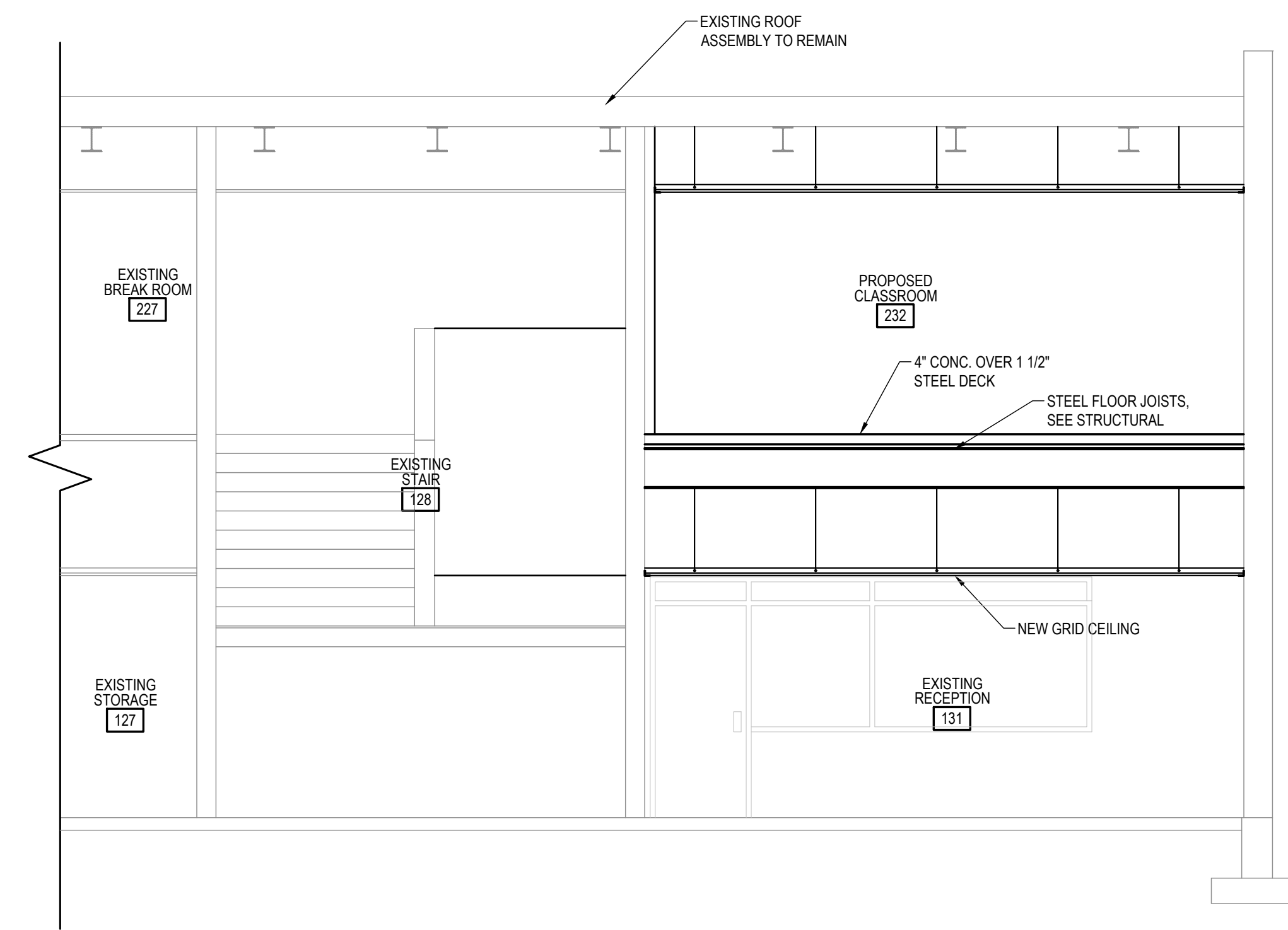
SHEET NUMBER:  
**A301**



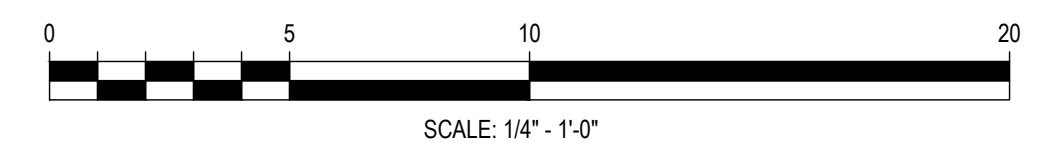
**BUILDING SECTION**  
SCALE: 1/4" = 1'-0" 1  
A301

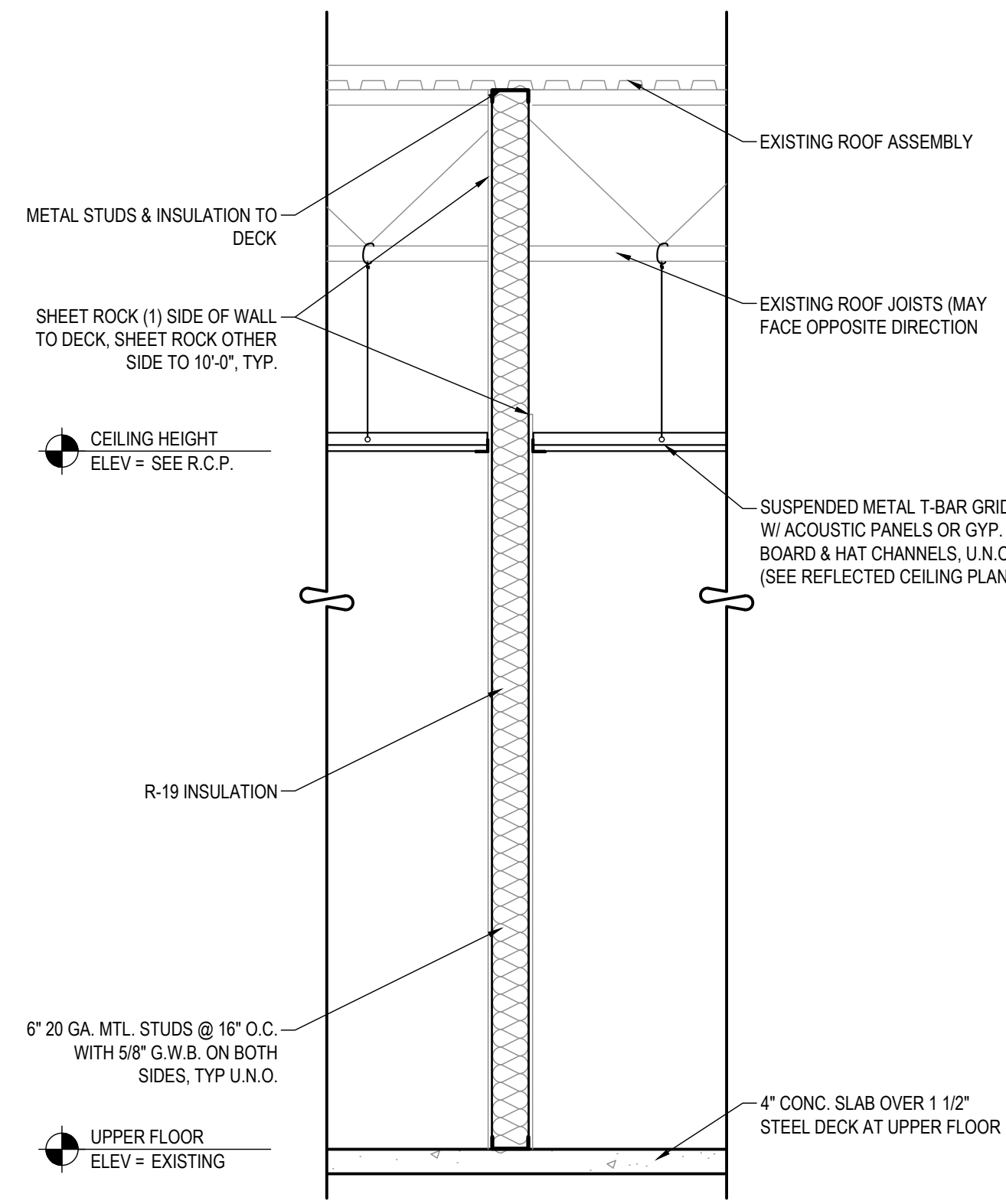


**BUILDING SECTION**  
SCALE: 1/4" = 1'-0" 2  
A301

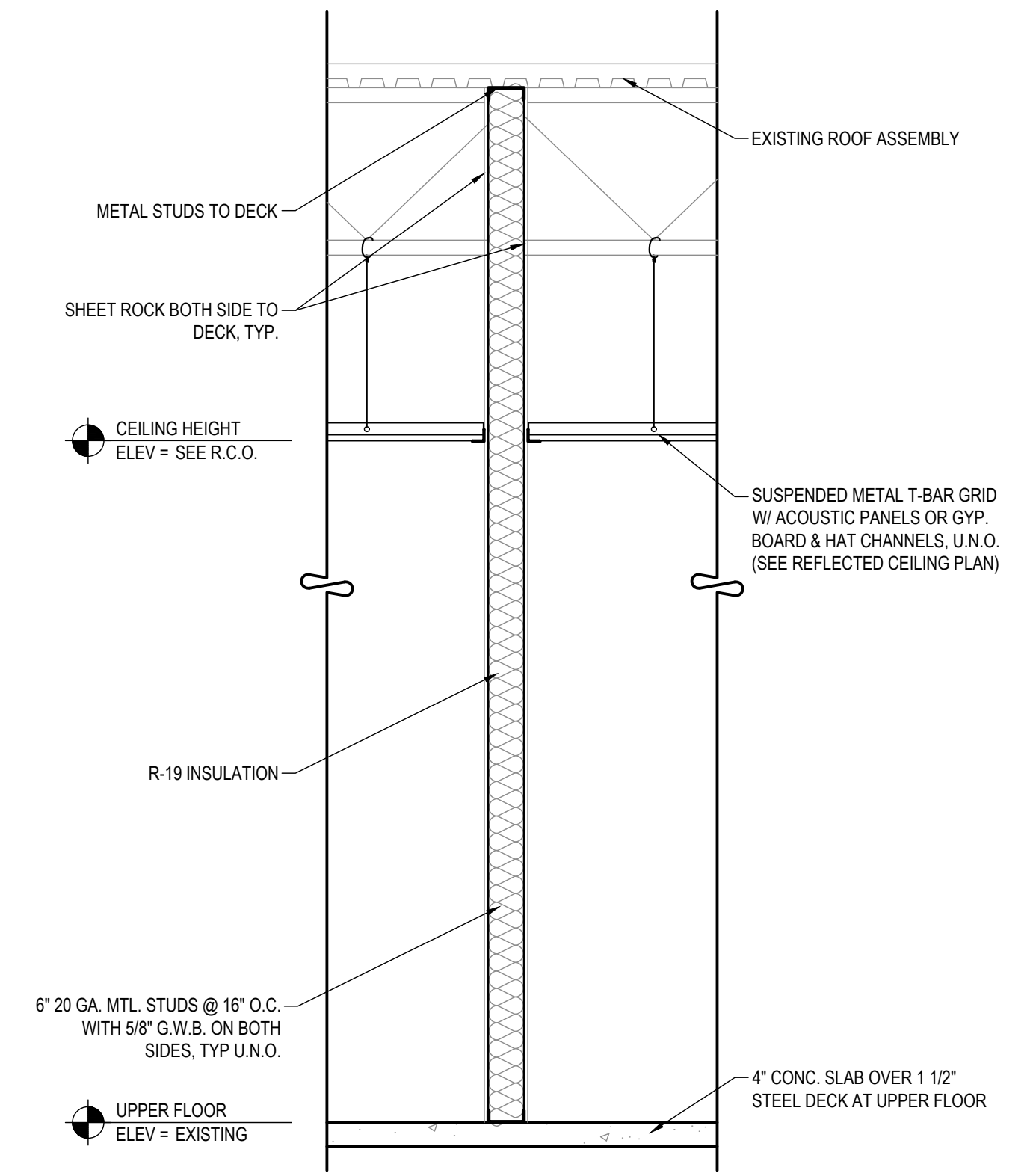


**BUILDING SECTION**  
SCALE: 1/4" = 1'-0" 3  
A301

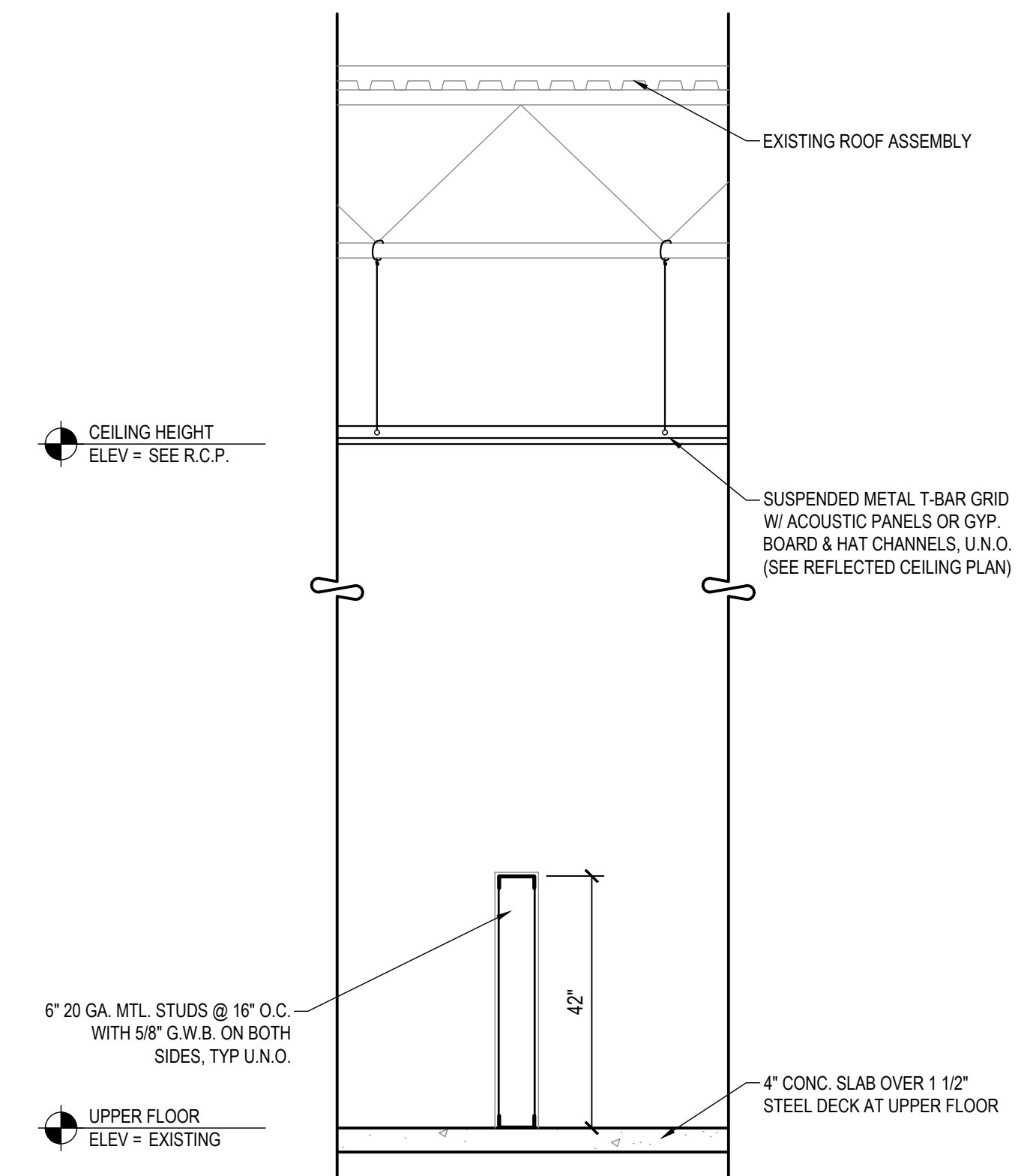




**INTERIOR STUD WALL** 1  
SCALE: 1/2" = 1'-0"

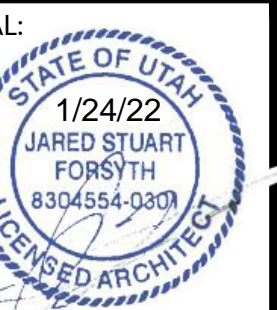
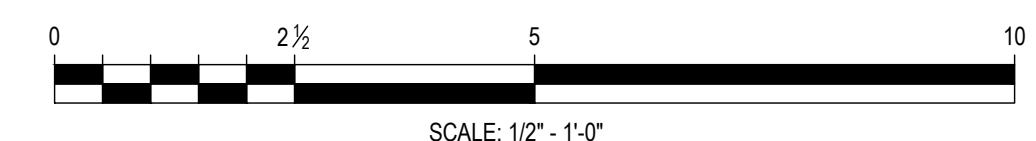


**CORRIDOR STUD WALL** 2  
SCALE: 1/2" = 1'-0"



**STAIR PONY WALL** 3  
SCALE: 1/2" = 1'-0"

**WALL SECTION** 1  
SCALE: 1/2" = 1'-0"

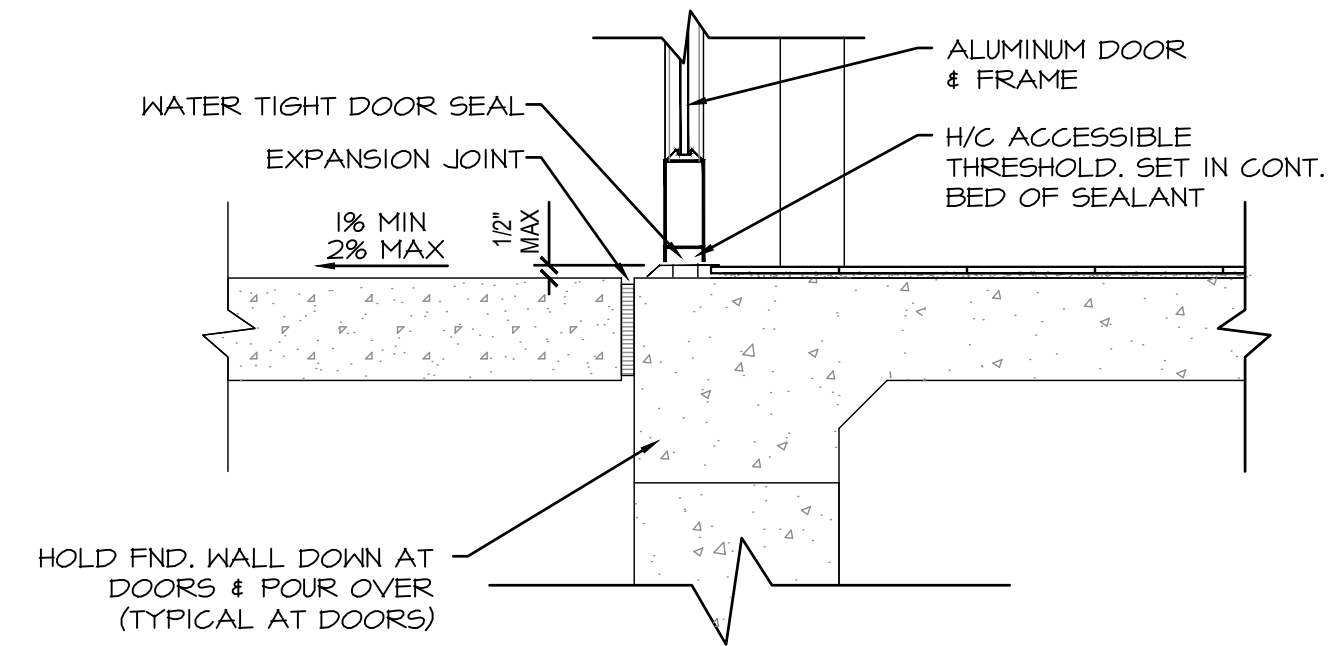


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PROJECT: 21-311  
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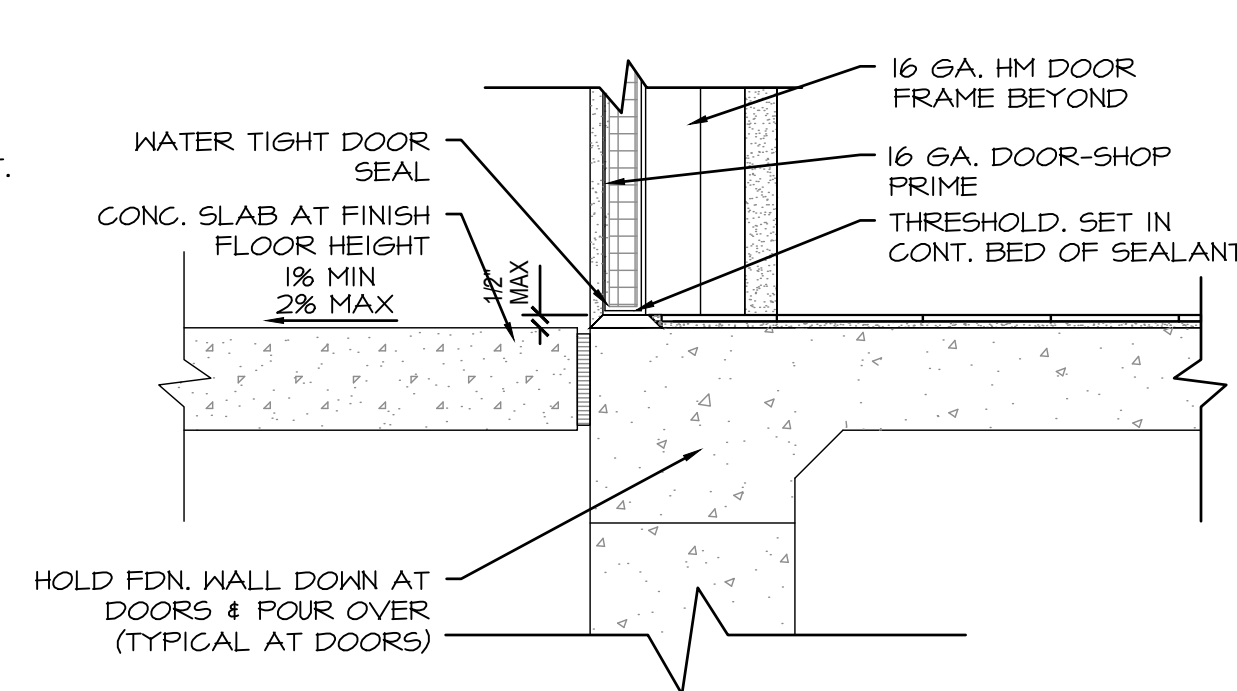
REVISIONS	
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WALL SECTIONS

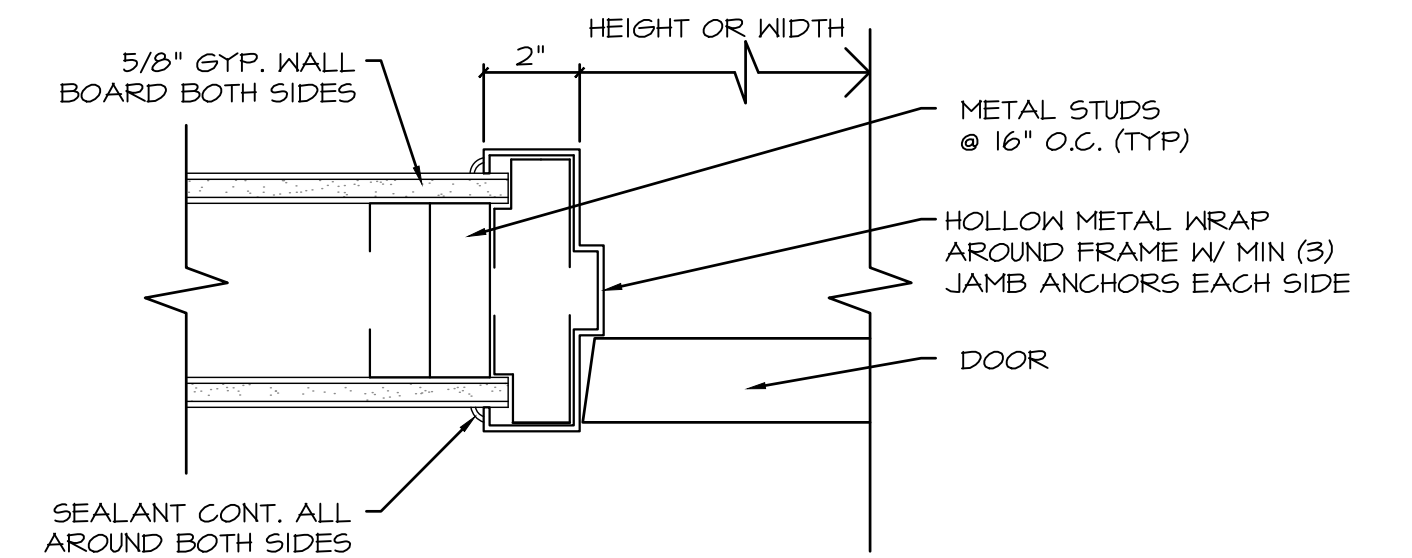
SHEET NUMBER:  
**A311**



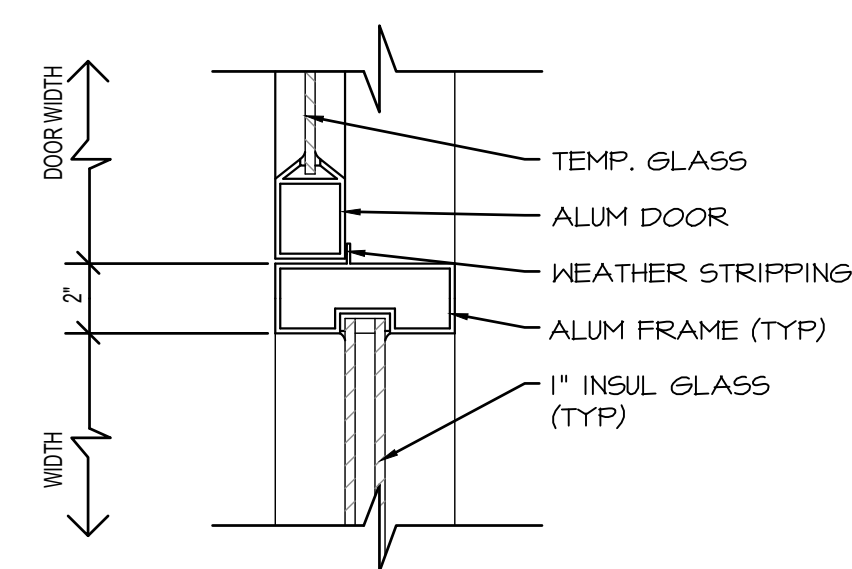
**THRESHOLD AT STOREFRONT** 1  
NOT TO SCALE A502



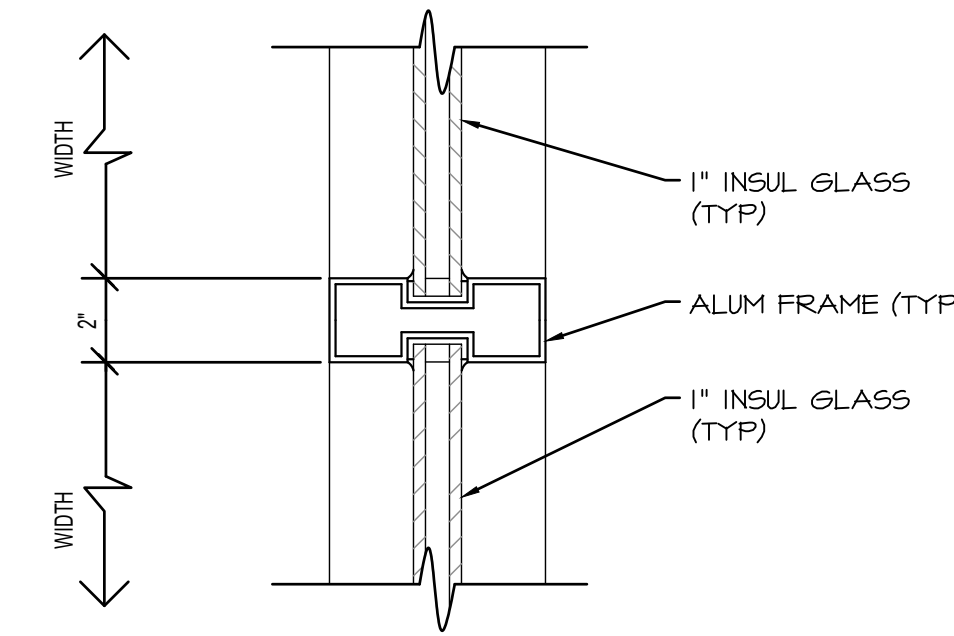
**THRESHOLD AT METAL DOOR** 2  
NOT TO SCALE A502



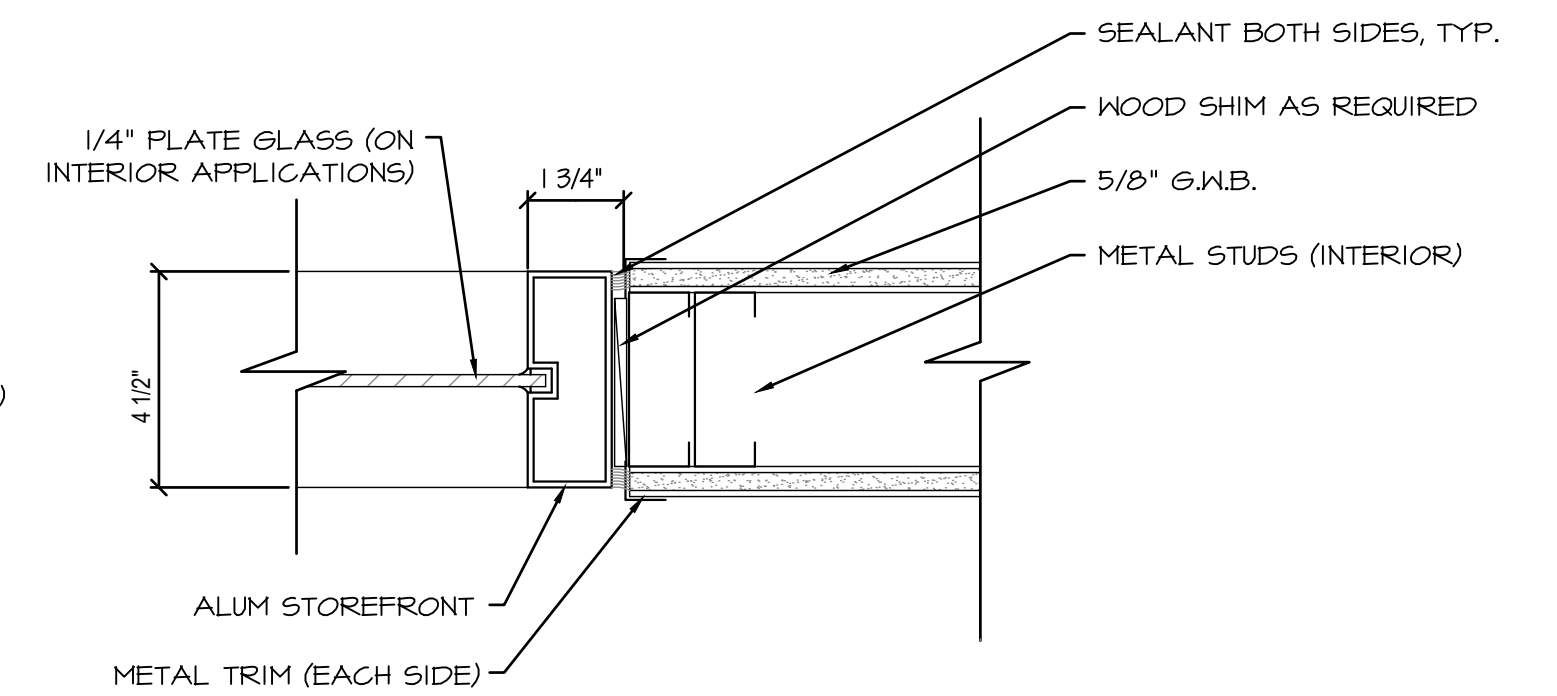
**HEAD DETAIL (JAMB SIM.)** 3  
NOT TO SCALE A502



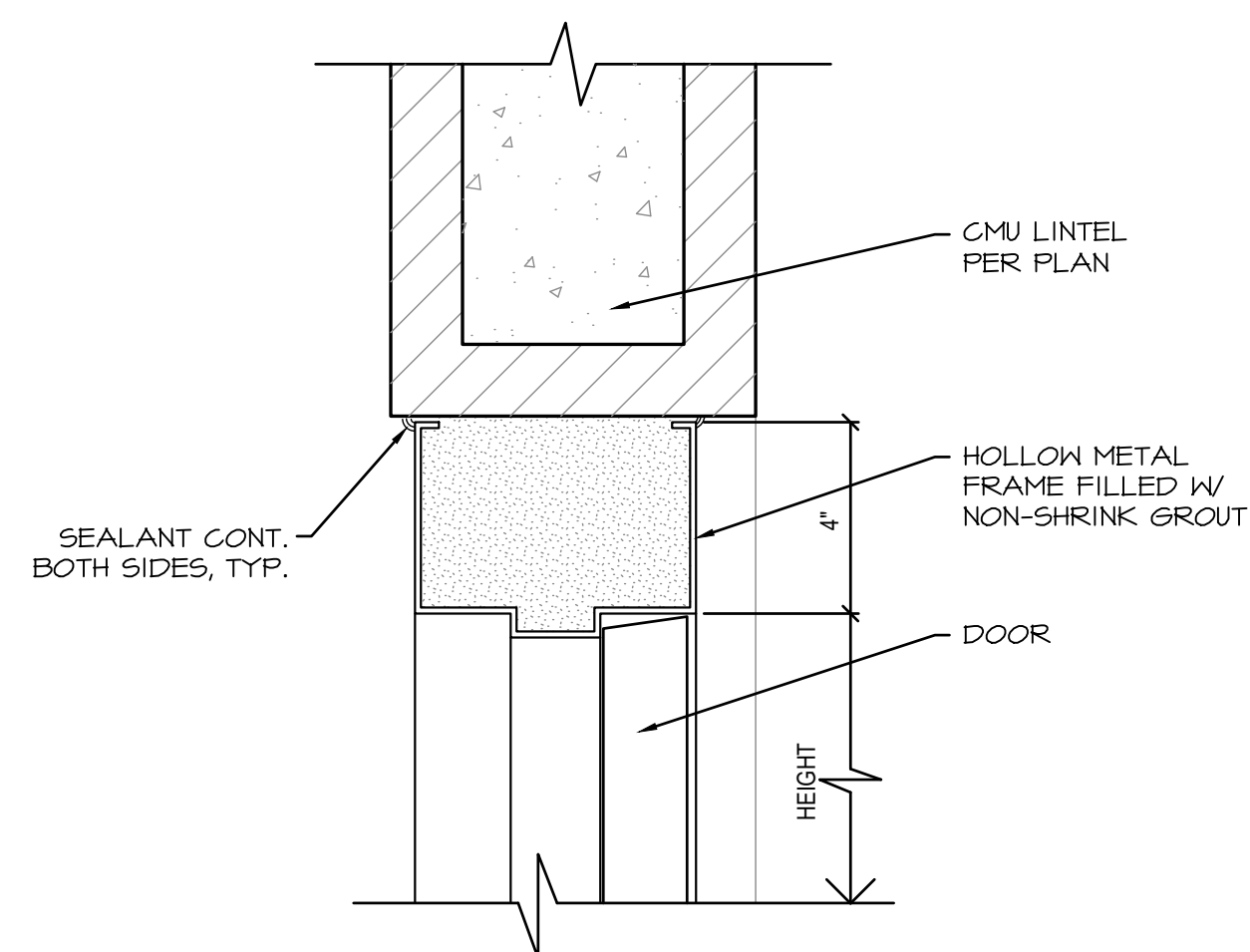
**ALUMINUM JAMB DETAIL** 4  
NOT TO SCALE A502



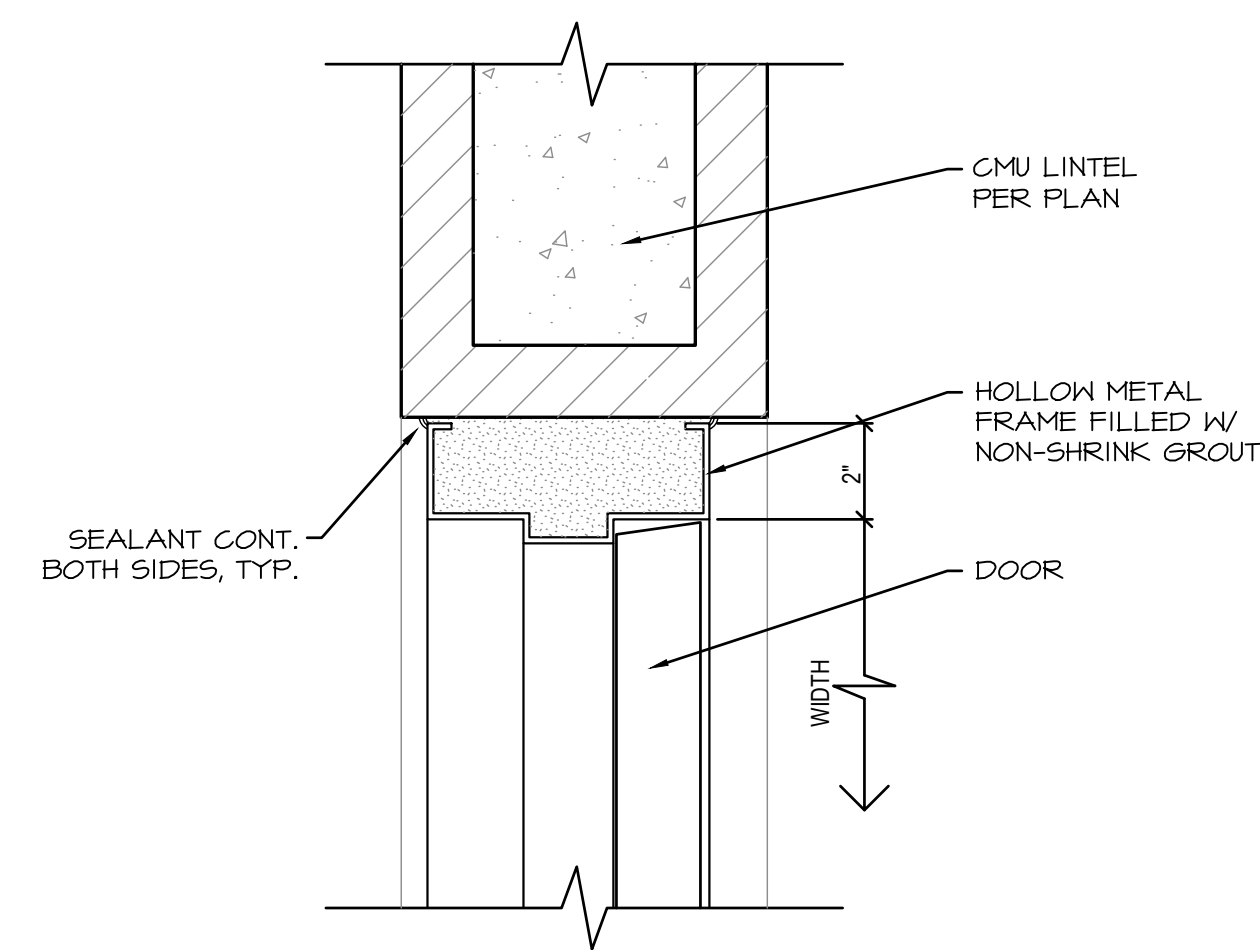
**ALUMINUM MULLION DETAIL** 5  
NOT TO SCALE A502



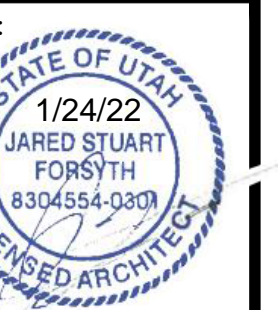
**JAMB, SILL & HEAD (SIM)** 6  
NOT TO SCALE A502



**HEAD DETAIL** 7  
NOT TO SCALE A502



**JAMB DETAIL** 8  
NOT TO SCALE A502



DATE: 01/19/2022  
PROJECT: 21-311  
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MARK	DATE / DESC.

ARCHITECTURAL  
DETAILS

SHEET NUMBER:

**A501**

FINISH SCHEDULE - UPPER FLOOR																	
ROOM NAME AND NUMBER	FLOOR			BASE	WALLS			CEILING									
	CARPET	NON-POROUS CERAMIC TILE	SEALED CONCRETE	DECORIA VINYL TILE (VCT)	MODULAR CARPET TILES	DECORIA VINYL PLANK (VCP)	RUBBER BASE	CERAMIC TILE	PAINTED G.W.B.	6 CERAMIC TILE WAINSCOT	6 WAINSCOT	CMU	FR.P. PANELS OVER 5'8" G.W.B.	2X4 ACOUSTIC CEILING	PAINTED G.W.B.	PAINTED EXPOSED CEILING	NON-POROUS GRID CEILING
201	EXISTING COMMONS																
230	PROPOSED CLASSROOM																
231	PROPOSED CLASSROOM																
232	PROPOSED CLASSROOM																

NOTE: ALL WALLS ADJACENT TO SOURCES OF MOISTURE SHALL BE FINISHED WITH TILE OR FRP AS NOTED IN THE FINISH SCHEDULE

DOOR SCHEDULE - MAIN FLOOR									
DOOR NO.	DOOR				FRAME		HARDWARE GROUP	REMARKS	
	WIDTH	HEIGHT	THICK	TYPE	MATL.	MATERIAL			
*100	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	3	PANIC HARDWARE/ AUTO CLOSER	
*100A	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	3	PANIC HARDWARE/ AUTO CLOSER	
*101	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	4		
*101A	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	4		
*102	(2) 3'-0"	7'-0"	1 3/4"	D	ALUM.	ALUM.	4		
*131	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	4		

DOOR SCHEDULE - UPPER FLOOR									
DOOR NO.	DOOR				FRAME		HARDWARE GROUP	REMARKS	
	WIDTH	HEIGHT	THICK	TYPE	MATL.	MATERIAL			
230	3'-0"	7'-0"	1 3/4"	A	WOOD	H.M.	2	GLASS SIDELIGHT	
231	3'-0"	7'-0"	1 3/4"	A	WOOD	H.M.	2	GLASS SIDELIGHT	
232	3'-0"	7'-0"	1 3/4"	A	WOOD	H.M.	2	GLASS SIDELIGHT	
232A	3'-0"	7'-0"	1 3/4"	B	H.M.	H.M.	1	PANIC HARDWARE/ AUTO CLOSER	

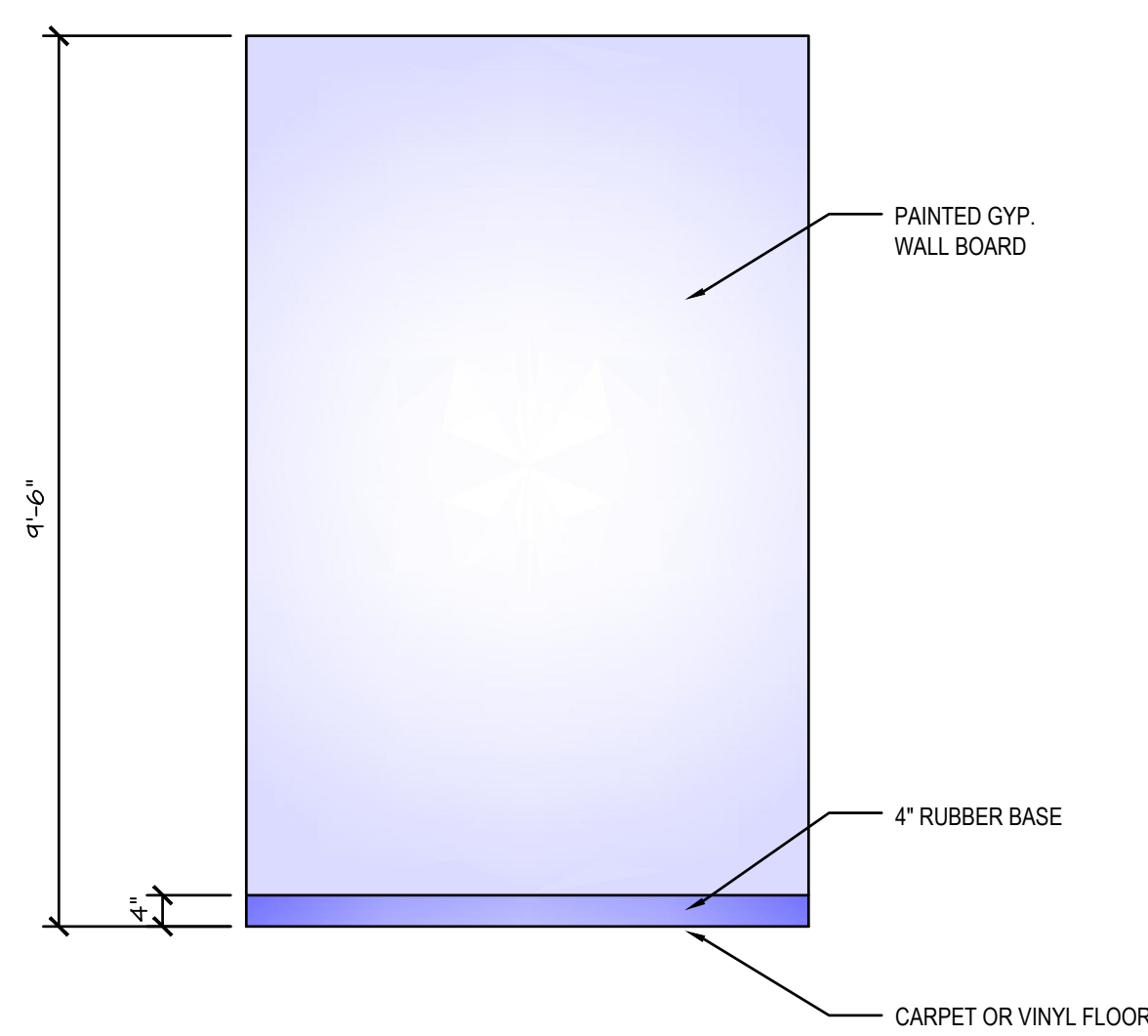
\* ONLY PROVIDE THESE DOORS IF EXISTING STOREFRONT SYSTEM CAN'T BE MODIFIED & MUST BE REPLACED. SEE WINDOW NOTES.

HARDWARE GROUPS	
*GROUP 1 (SINGLE EXTERIOR DOOR DOORS) 1 - 3070 GRAY RUBBER SILENCERS (WASER) 1 - 5020/5021 X 48H CLOSER W/ CUSHION STOP (WASER) 1 - 98L-36" X 102SD PANIC (VON DUPRIN) 1 - 205222 X 60R RIM CYLINDER (SCHLAGE) 1 - 1134W-36" X 84 HEATHERSTRIP SET (WASER) 1 - 307AV-36" BOTTOM DOOR SWEEP (WASER)	*GROUP 2 (EXTERIOR STOREFRONT DOORS) 1 - 3070 GRAY RUBBER SILENCERS (WASER) 1 - 5020/5021 X 48H CLOSER W/ CUSHION STOP (WASER) 1 - 98L-36" X 102SD PANIC (VON DUPRIN) 1 - 205222 X 60R RIM CYLINDER (SCHLAGE) 1 - 1134W-36" X 84 HEATHERSTRIP SET (WASER) 1 - 307AV-36" BOTTOM DOOR SWEEP (WASER)
*GROUP 3 (GLASSROOM DOORS & OTHER SINGLE WOOD DOORS, OUTSIDE LEVER LOCKED BY KEY, INSIDE LEVER ALWAYS UNLOCKED) 1 - 3070 GRAY RUBBER SILENCERS (WASER) 1 - 5020/5021 X 48H CLOSER W/ CUSHION STOP (WASER) 1 - 98L-36" X 102SD PANIC (VON DUPRIN) 1 - 205222 X 60R RIM CYLINDER (SCHLAGE) 1 - 1134W-36" X 84 HEATHERSTRIP SET (WASER) 1 - 307AV-36" BOTTOM DOOR SWEEP (WASER)	*GROUP 4 (INTERIOR STOREFRONT DOORS) 1 - 3070 GRAY RUBBER SILENCERS (WASER) 1 - 5020/5021 X 48H CLOSER W/ CUSHION STOP (WASER) 1 - 98L-36" X 102SD PANIC (VON DUPRIN) 1 - 205222 X 60R RIM CYLINDER (SCHLAGE) 1 - 1134W-36" X 84 HEATHERSTRIP SET (WASER) 1 - 307AV-36" BOTTOM DOOR SWEEP (WASER)

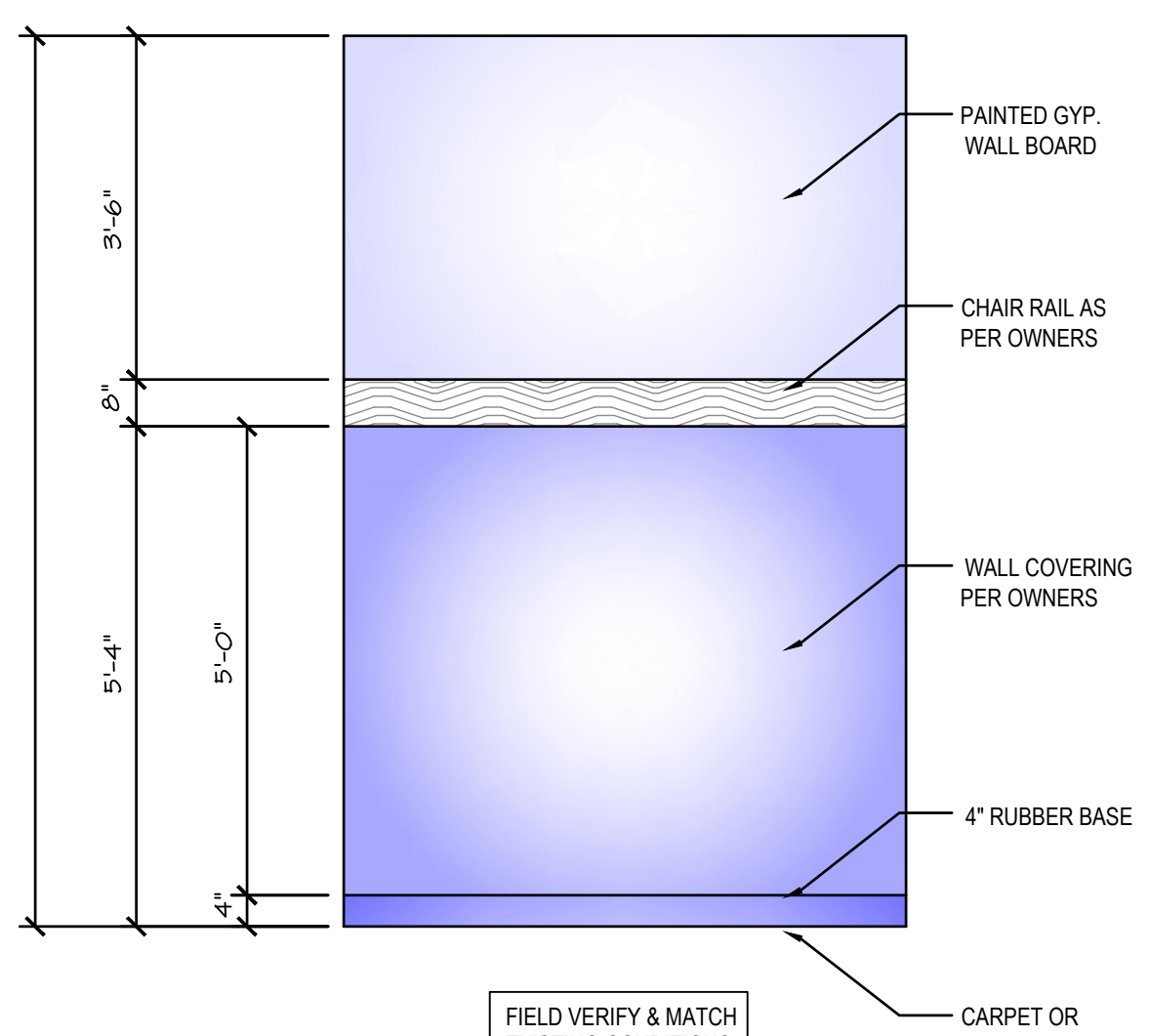
- DOOR NOTES:**
- METAL STUDS AT ALL HOLLOW METAL DOOR FRAMES MUST BE MIN. 16 GA. STUDS
  - FIELD VERIFY ROUGH OPENING DIMENSIONS
  - SEE SHEET A501 FOR DOOR HEAD, JAMB & THRESHOLD DETAILS
  - MATCH FINISHED OF EXISTING DOORS
  - ALL DOOR HARDWARE TO OPERATE IN COMPLIANCE WITH 2018 IBC AND CURRENT ADA STANDARDS.

FLAME SPREAD REQUIREMENTS	
MATERIAL	FLAME SPREAD
GYPSUM BOARD (WITH PAPER ON BOTH SIDES)	10 TO 25
CONCRETE BLOCK	0
CARPETING	10 TO 600
CONCRETE	0
ACOUSTICAL CEILING TILE	10 TO 25
NORTHERN PINE (TREATED)	20
SOUTHERN PINE (UNTREATED)	130 TO 190
VCT FLOORING	25
WOOD DOOR	100
CERAMIC TILE	25 OR LESS
FRP	25
RUBBER BASE	150

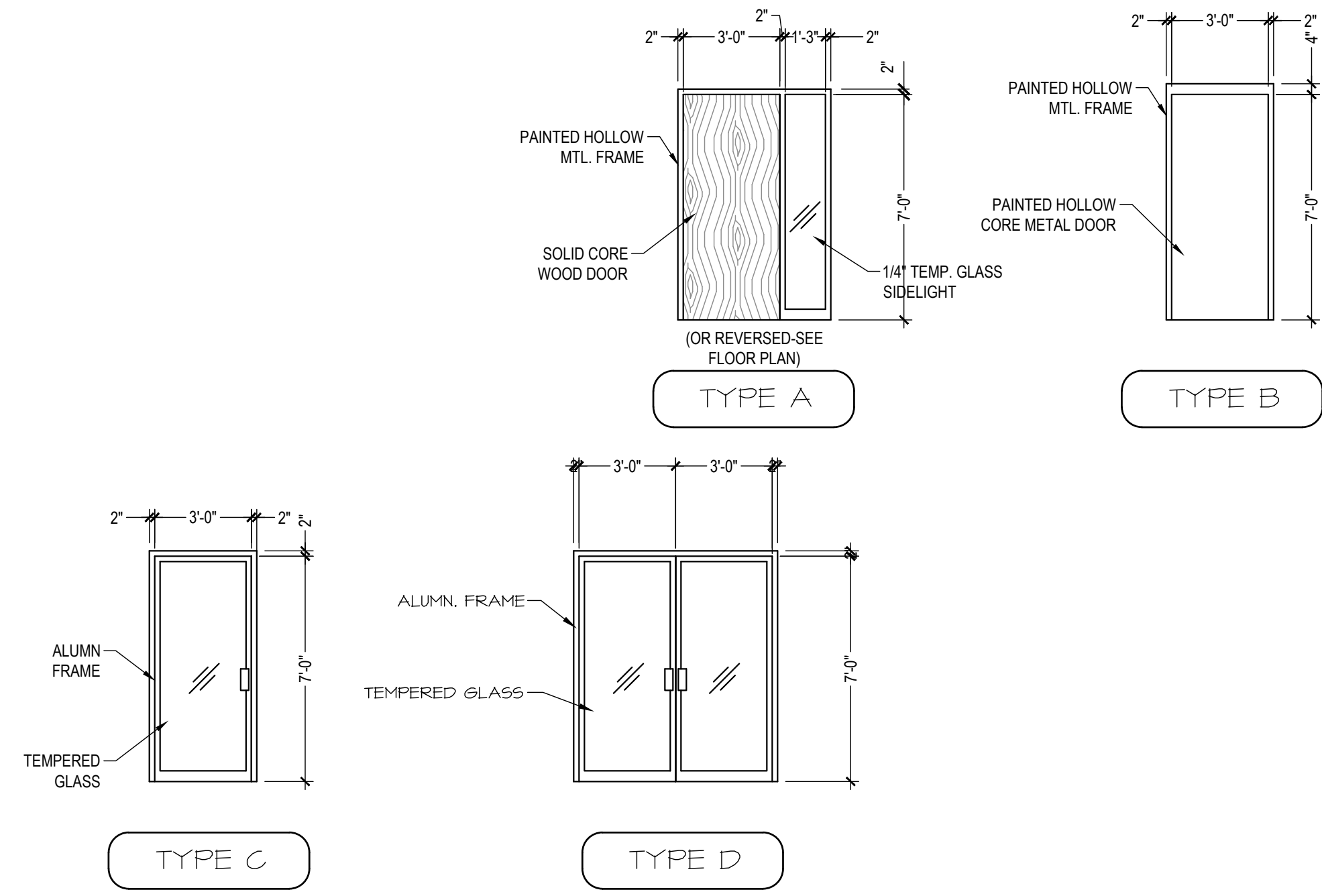
- WINDOW NOTES:**
- QUANTITIES ARE APPROXIMATE. SUPPLIER TO FIELD VERIFY QUANTITIES AND ROUGH OPENING DIMENSIONS
  - LONG INTERIOR STOREFRONT WINDOWS SHALL HAVE WOOD BEHIND THE TRIMMERS, AND HEADERS AS REQUIRED FOR EXTRA SUPPORT
  - SEE SHEET A501 FOR WINDOW HEAD, JAMB, SILL AND MULLION DETAILS
  - ALL WINDOWS SHALL MATCH EXISTING CONDITIONS
  - CONTRACTOR TO DETERMINE IF STORE FRONTS CAN BE MODIFIED. IF THEY CANNOT, THEN REPLACE THE STORE FRONT PER CONTRACTOR RECOMMENDATION.



**TYPICAL CLASSROOMS WALL**  
NOT TO SCALE

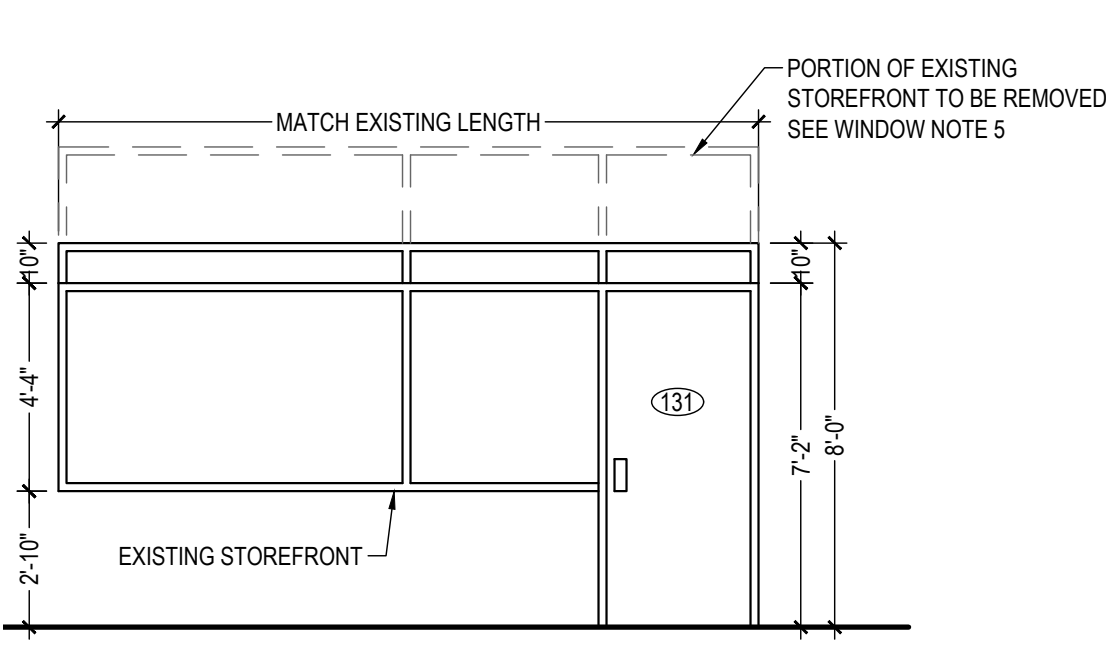


**TYPICAL HALLWAY WALL**  
NOT TO SCALE



**MILLWORK NOTES:**

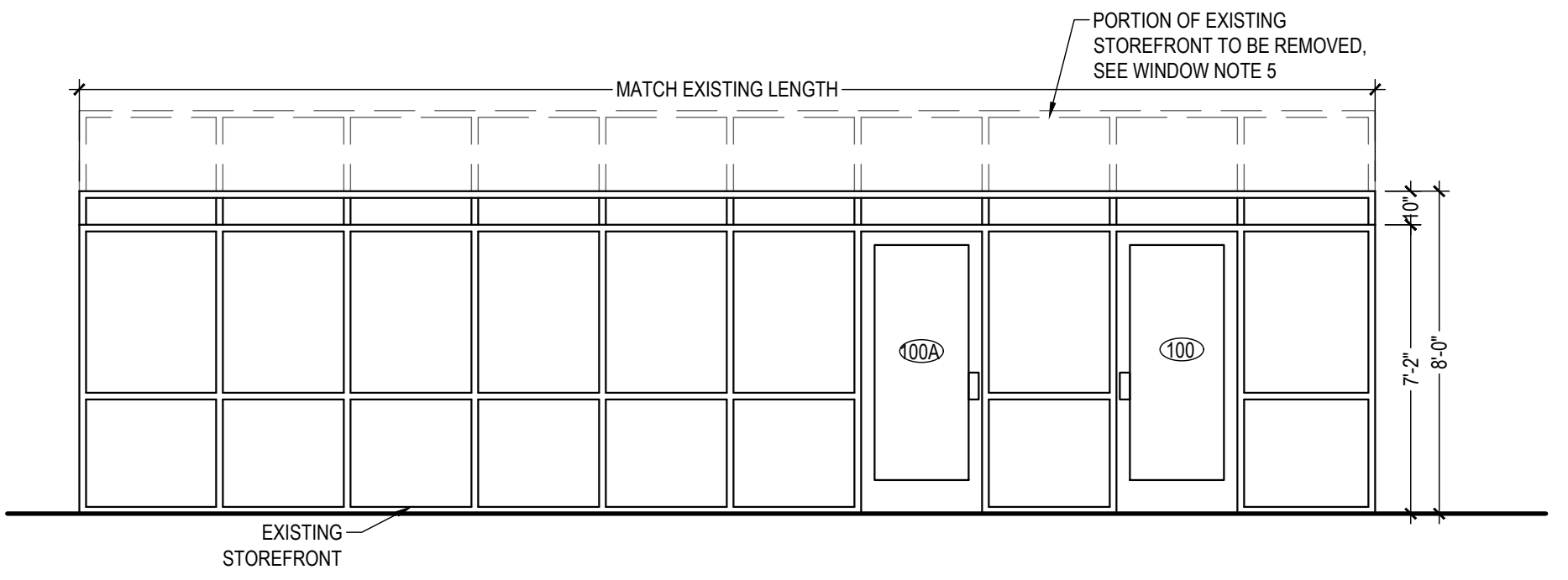
- ALL MILLWORK TO CONFORM TO A61 CUSTOM GRADE CONSTRUCTION. ALL CABINETS AND COUNTERS TO BE ANCHORED AND SCRIBED TO ADJACENT SURFACES.
- ALL COUNTER CORE MATERIAL TO BE 3/4" PARTICLE BOARD OR HARDWOOD PLYWOOD.
- ALL CONSTRUCTION TO BE FLUSH OVERLAY, SELF-EDGE TOPS UNLESS NOTED OTHERWISE.
- HARDWARE: FULLY EXTENDED DRAWER GLIDERS; FULLY CONCEALED HINGES; FULLY RECESSED STANDARDS FOR ALL ADJUSTABLE SHELVES; 3-INCH DRAWER/CABINET PULLS W/ BUILDING STANDARD FINISH.
- ALL EXTERIOR SURFACES SHALL BE PLASTIC LAMINATE. ALL INTERIOR SURFACES TO BE WHITE MELAMINE.
- ALL MILLWORK SHALL PROVIDE ADA ACCESSIBILITY AND BE CONSTRUCTED TO COMPLY WITH THE APPLICABLE CODES AND REGULATIONS.



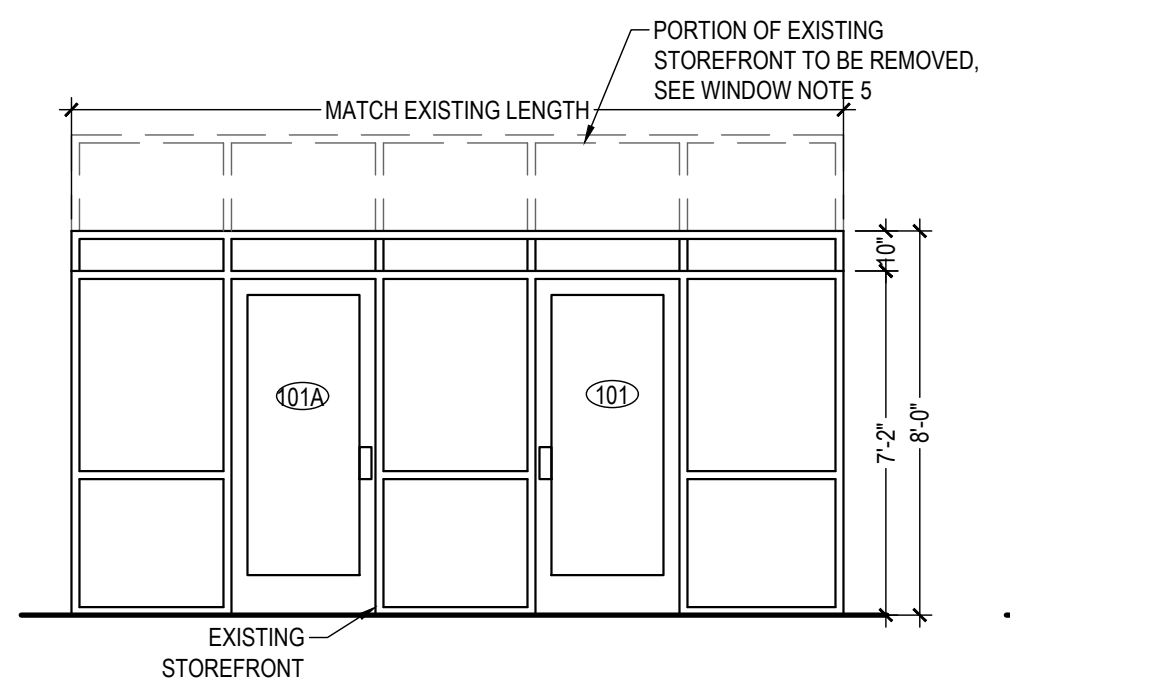
PROVIDE (1) OF THIS WINDOW TYPE



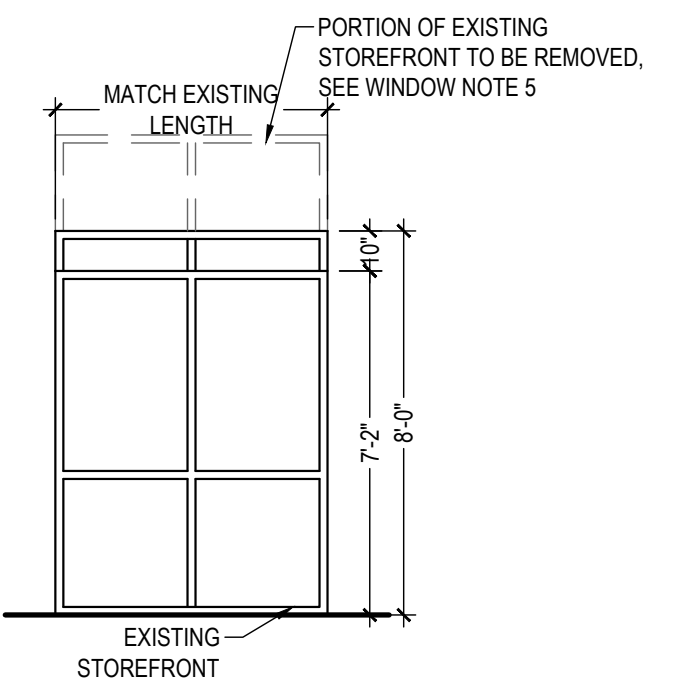
PROVIDE (1) OF THIS WINDOW TYPE



PROVIDE (1) OF THIS WINDOW TYPE

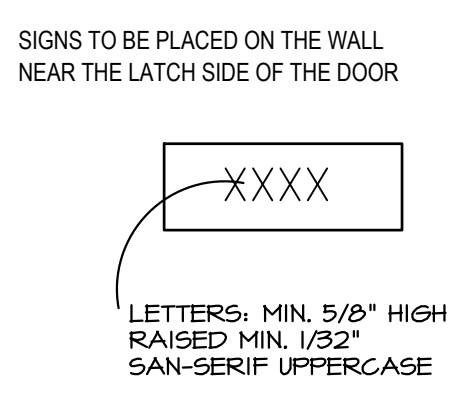


PROVIDE (1) OF THIS WINDOW TYPE




PROVIDE (1) OF THIS WINDOW TYPE

**TYPICAL ROOM SIGNS**  
NOT TO SCALE

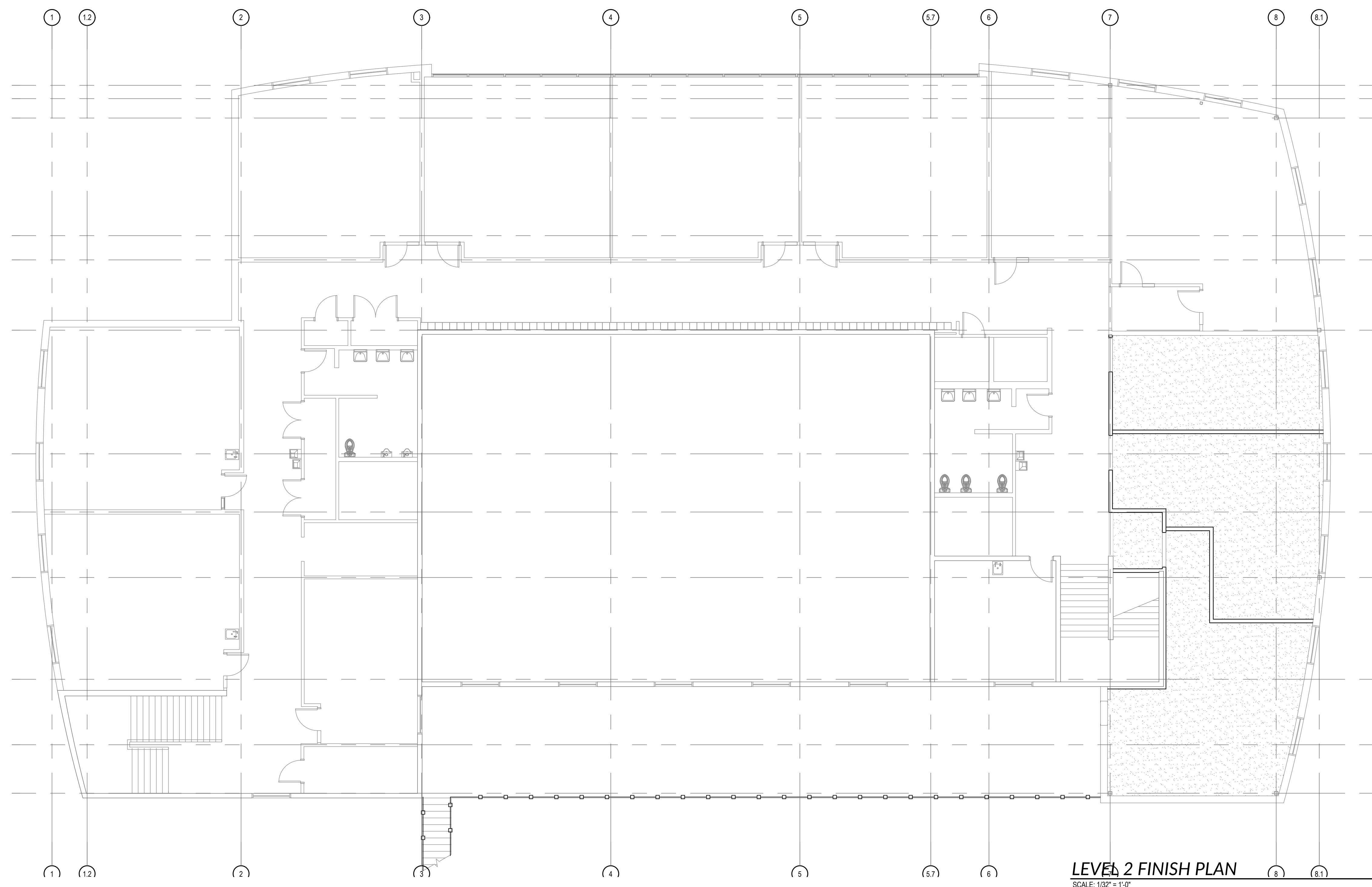


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FLOOR FINISH TABULATION				
HATCH	FLOOR FINISH	MAIN LEVEL (SQ. FT.)	UPPER LEVEL (SQ. FT.)	TOTAL AREA
	CARPET	0	1586	1586

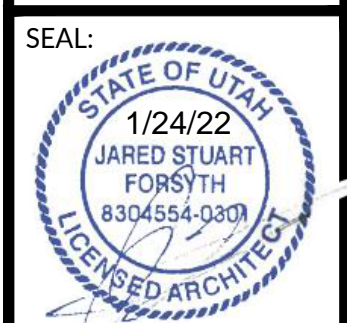
NOTE: NUMBERS ARE APPROXIMATE. SUPPLIER TO FIELD VERIFY

NOTE: ALL THRESHOLDS TO BE A MAXIMUM OF 1/2" SEE DETAILS 1 & 2 ON SHEET A501



**LEVEL 2 FINISH PLAN**  
SCALE: 1/32" = 1'-0"

1  
A112



DATE: 01/19/2022  
PROJECT: 21-311  
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FINISH SCHEDULE

SHEET NUMBER:  
**A621**





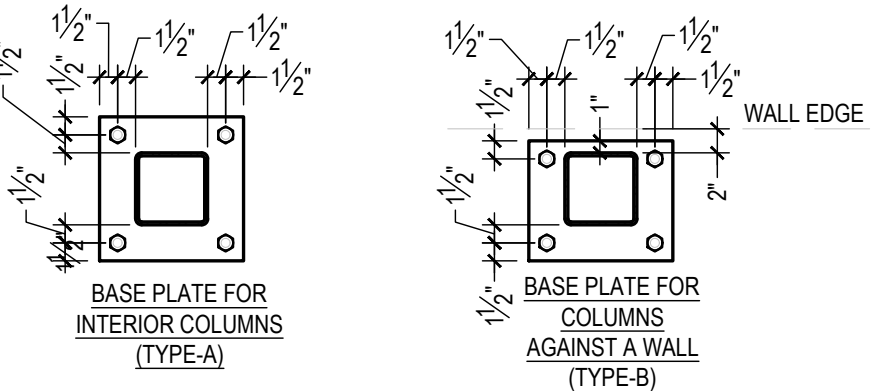


### STEEL COLUMN SCHEDULE

MARK	SIZE	STEEL BASE PLATE SIZE	STEEL BASE PLATE TYPE	STEEL CAP PLATE	REMARKS
SC-4A	HSS4X4X3/16	10"X0'-10"X1"	A	1/4" U.N.O.	UNO
SC-4B	HSS4X4X3/16	10"X0'-8"X1"	A	1/4"	UNO

**NOTES:**

- UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED W/ (4) 3/4" DIAMETER A.B. W/ 3" (MIN.) HOOKS. PROJECT ANCHOR BOLTS 3" (MIN.) ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" (MIN.) ALL BOLTS SHALL BE INSTALLED W/ HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 3/16" SHALL HAVE 3/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
- ALL BOLTS IN CAP PLATES SHALL BE 3/4" DIA. A329N BOLTS, TYPICAL UNO.
- WELDS SHALL NOT BE MADE TO ANCHOR BOLTS.



### FLOOR JOIST SCHEDULE

MARK	JOIST
FJ-1	W14X22
FJ-2	W12X19
FJ-3	W16X26

#### NOTES AND SYMBOLS LEGEND

- INDICATES DETAIL REFERENCE NUMBER
- INDICATES SHEET REFERENCE NUMBER
- INDICATES FOOTING DESIGNATION, SEE SCHEDULE ON THIS SHEET
- INDICATES CONCRETE WALL
- INDICATES MASONRY WALL
- INDICATES CONCRETE OVER STEEL FLOOR DECK, SEE GENERAL STRUCTURAL NOTES

- #### FLOOR FRAMING NOTES
- FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
  - VERIFY ALL FLOOR OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE DETAILS 1/S511 AND 2/S511 FOR FRAMING AND AROUND OPENINGS.
  - ALL WIDE FLANGE TO WIDE FLANGE CONNECTIONS TO BE INSTALLED PER 3/S511, U.N.O.

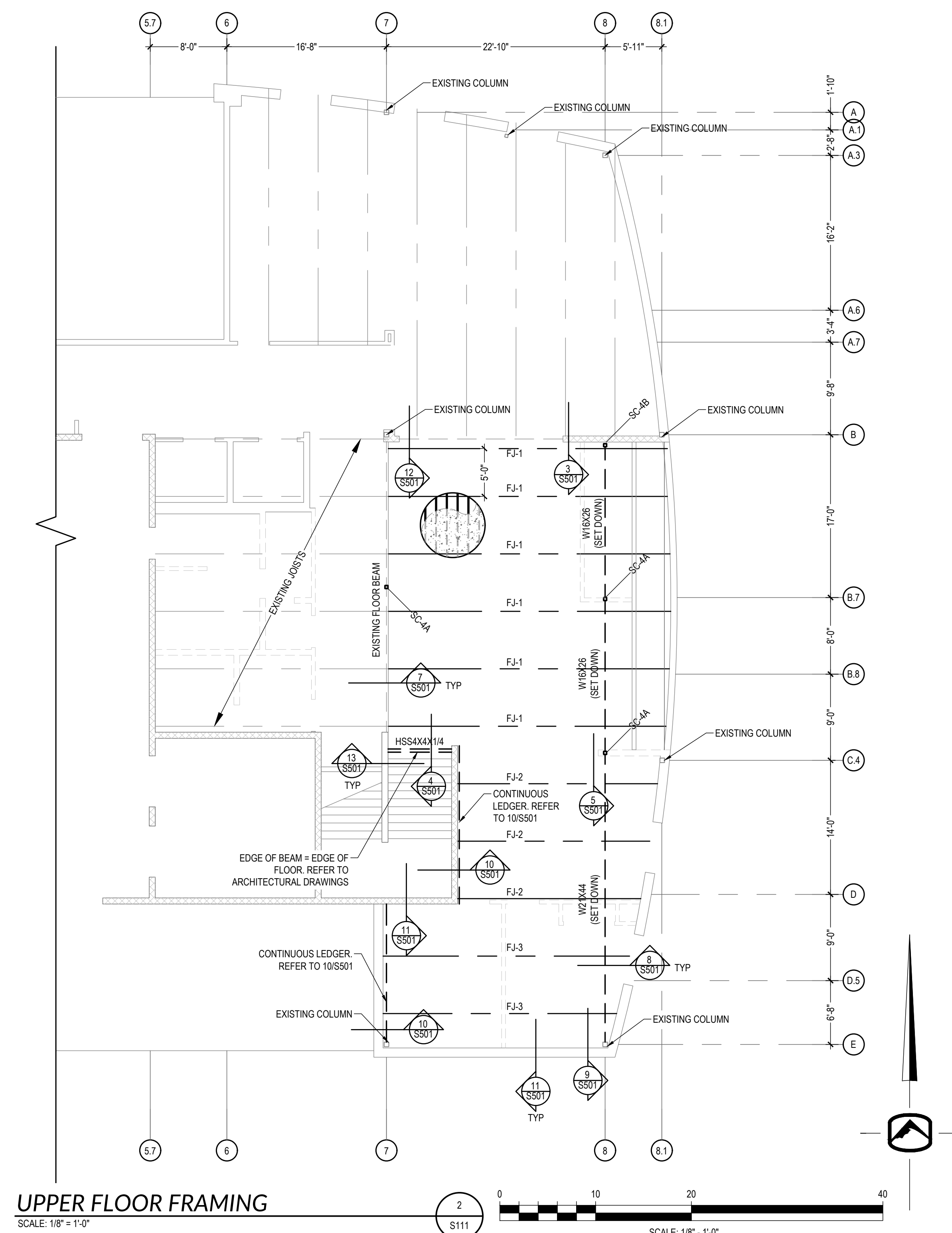
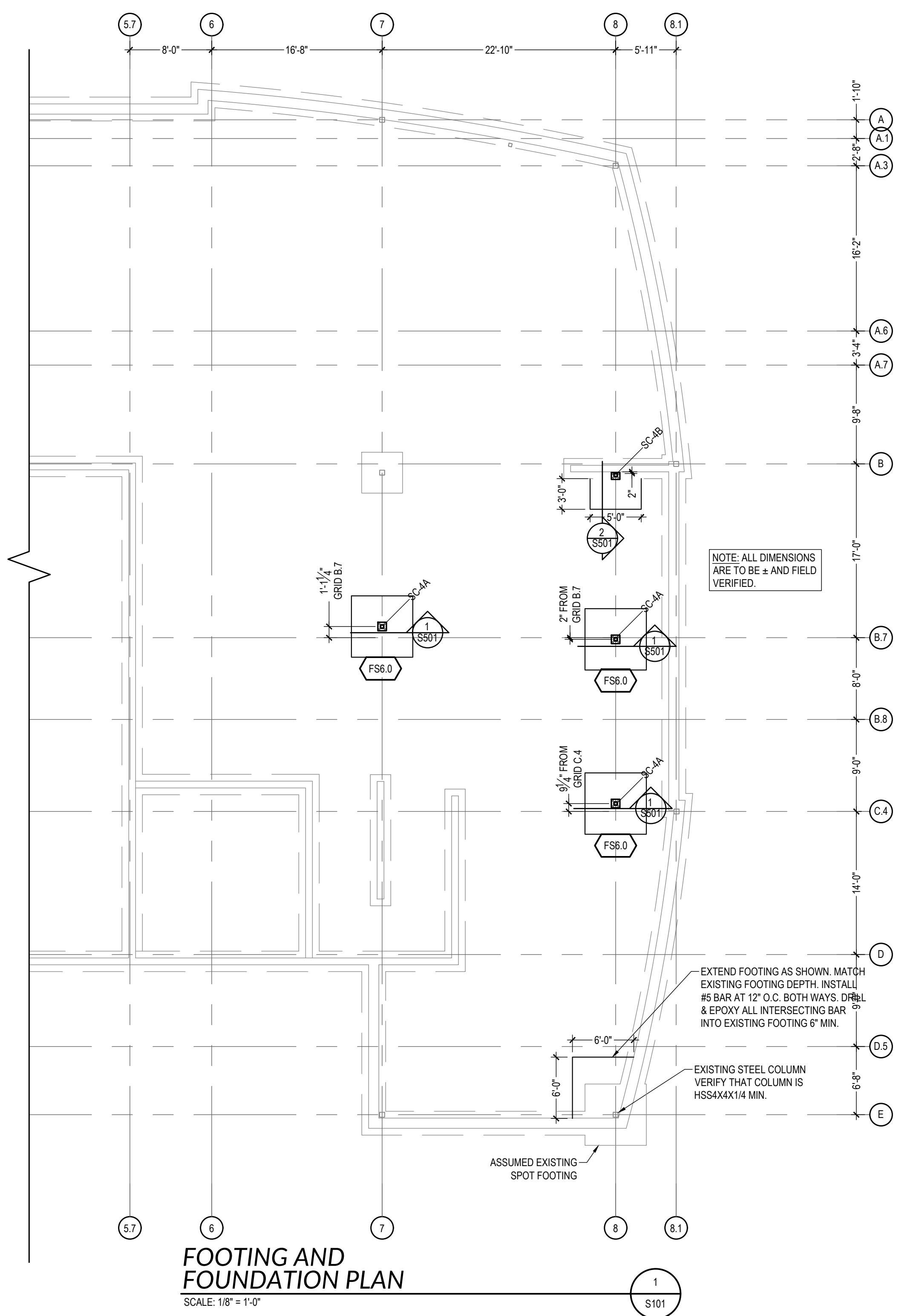
- #### FOOTING AND FOUNDATION NOTES
- COORDINATE LOCATION OF SLOPED SLABS, DEEPRESSED SLABS, FLOOR DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE FOUNDATION AND EARTHWORK NOTES ON SHEET S001 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
  - ALL SPOT FOOTINGS SHALL BE CENTERED UNDER WALLS AND COLUMNS (UNO)
  - CARRY ALL COLUMN LOADS DOWN TO FOOTING OR FOUNDATION WALL.

### CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING				LENGTHWISE REINFORCING				REMARKS
				NO.	SIZE	LENGTH	SPACING	NO.	SIZE	LENGTH	SPACING	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EVEN	6	#5	5'-6"	EVEN	

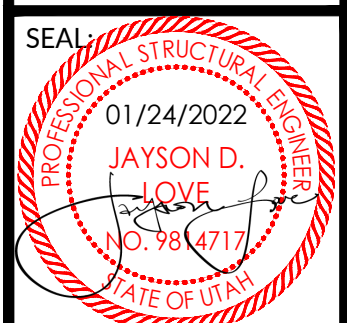
**NOTES:**

- PLACE ALL FOOTING REINFORCING 3" FROM BOTTOM OF FOOTING WITH 3" CLEAR ON SIDES UNLESS NOTED OTHERWISE.
- FOOTINGS MUST BEAR ON COMPACTED STRUCTURAL FILL AS INDICATED IN THE GEOTECHNICAL REPORT.



**SIL VERPEAK ENGINEERING**  
 177 E. ANTELOPE DR. STE. B  
 LAYTON, UT 84041  
 PHONE: (801) 499-5054  
 WWW.SILVERPEAKENG.COM

**DAVICINI ACADEMY REMODEL**  
 215 22ND STREET  
 OGDEN, UTAH

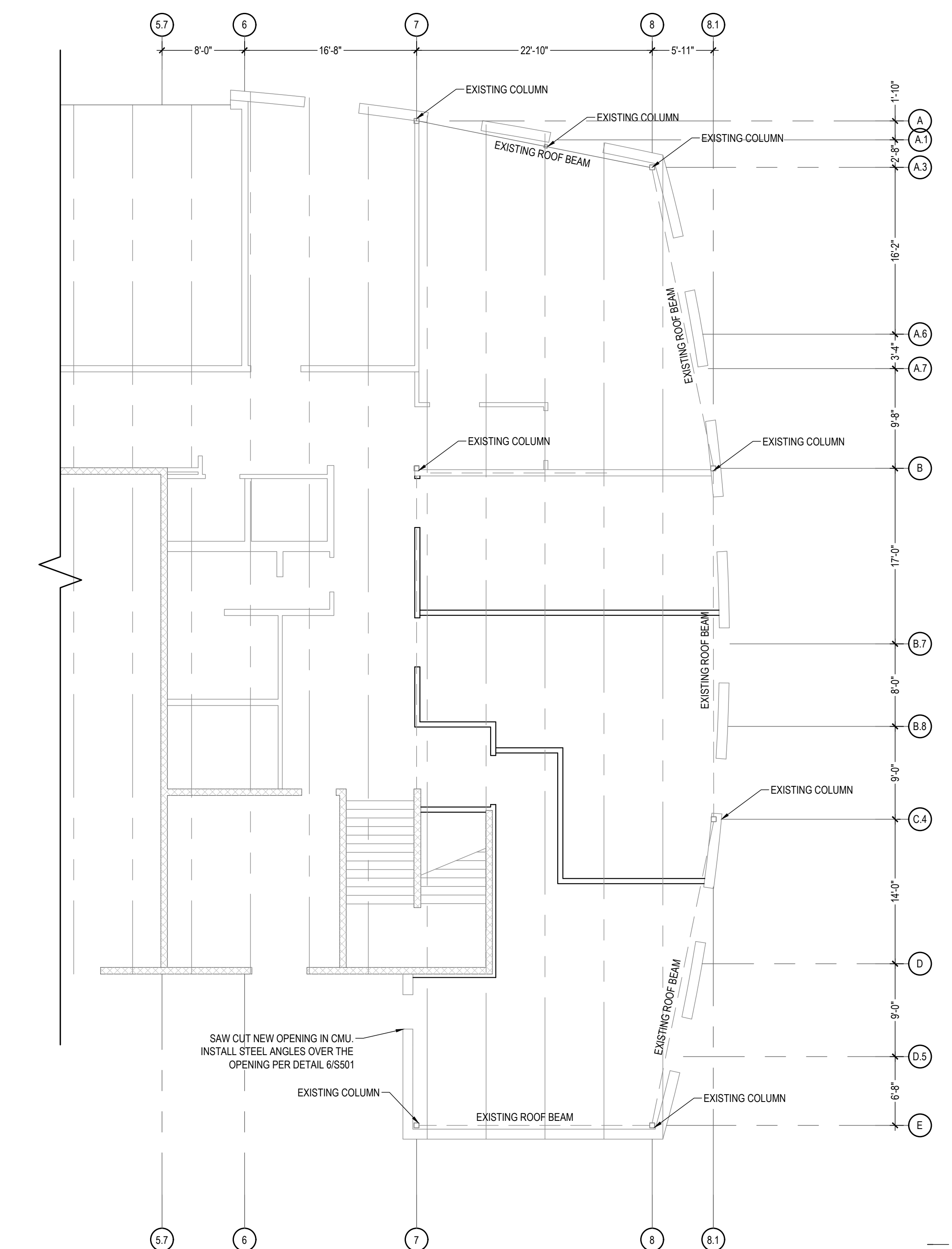


DATE: 01/19/2022  
 PROJECT: 21-311  
 DRAWN BY: WM

REVISIONS	
MARK	DATE / DESC.

FOUNDATION AND FLOOR FRAMING PLAN

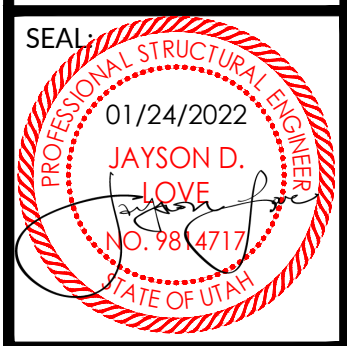
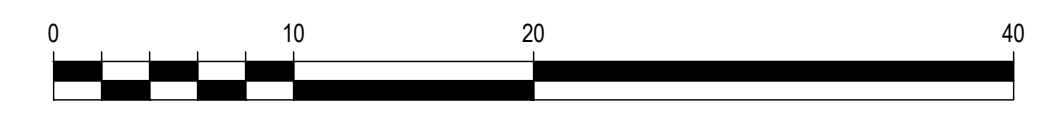
SHEET NUMBER:  
**S101**



**ROOF FRAMING PLAN**

SCALE: 1/8" = 1'-0"

1  
S111



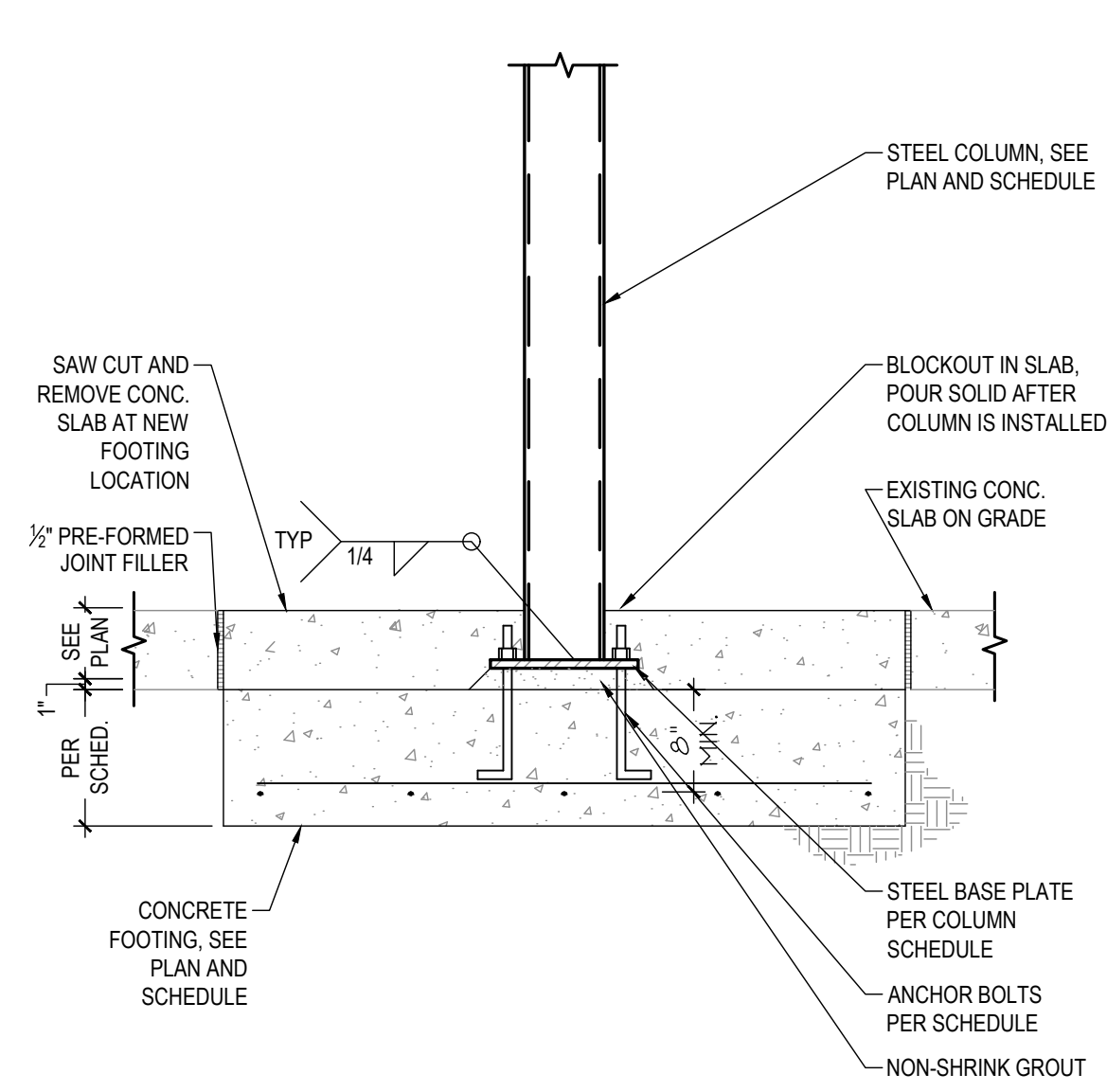
DATE: 01/19/2022  
 PROJECT: 21-311  
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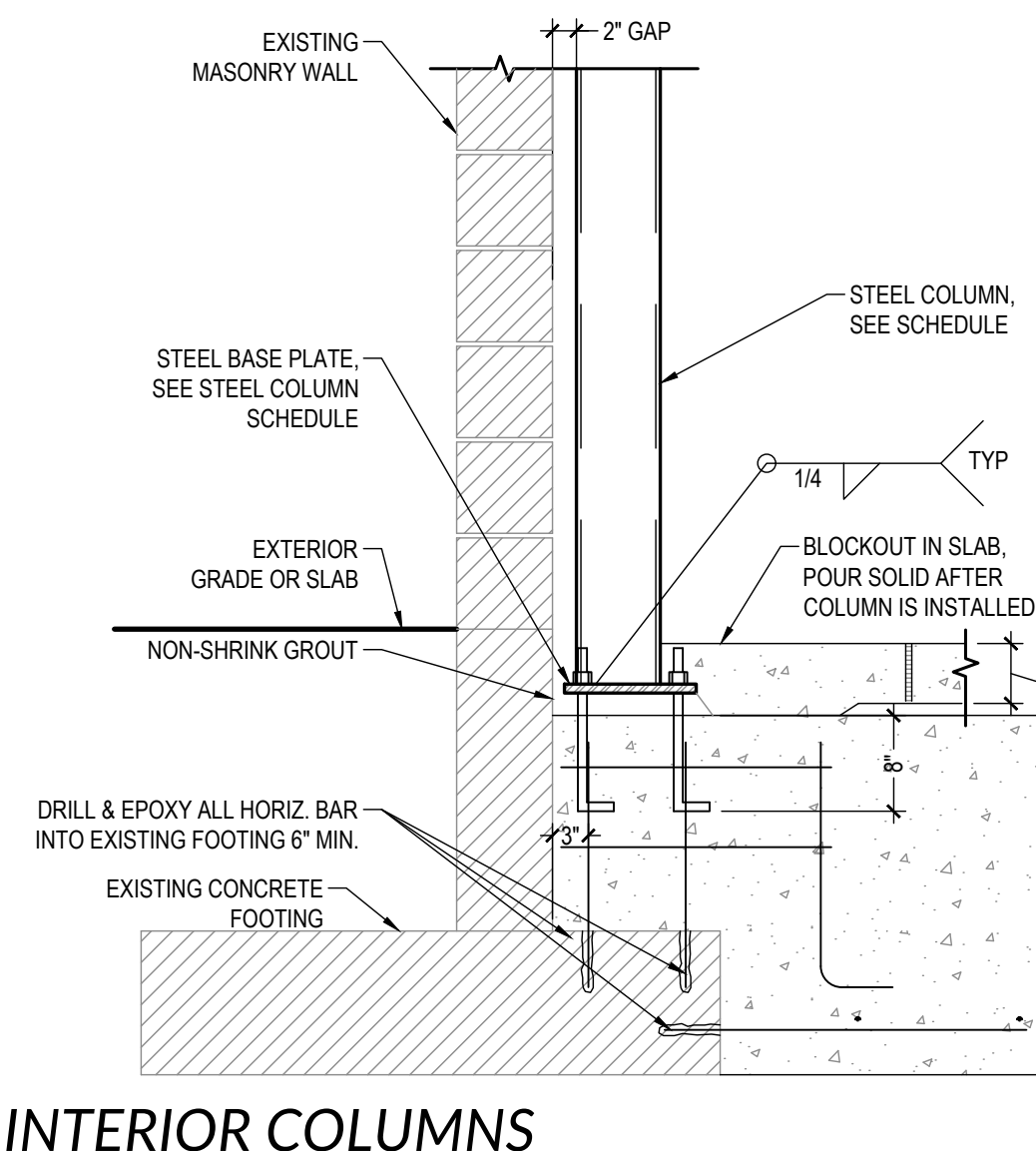
**ROOF FRAMING PLAN**

SHEET NUMBER:  
**S121**

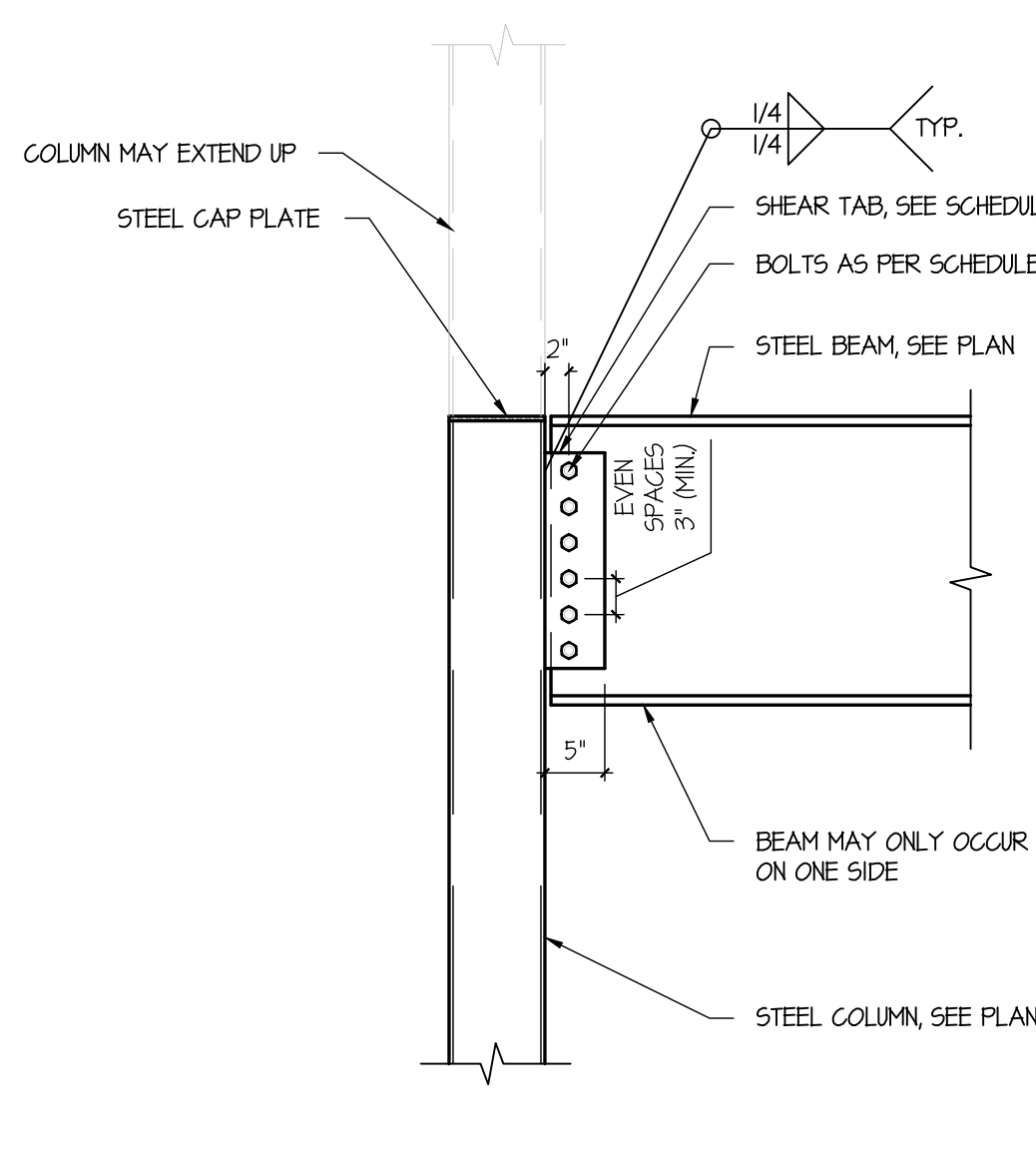
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.



**1 STEEL COLUMN AT INTERIOR FOOTING**  
NOT TO SCALE



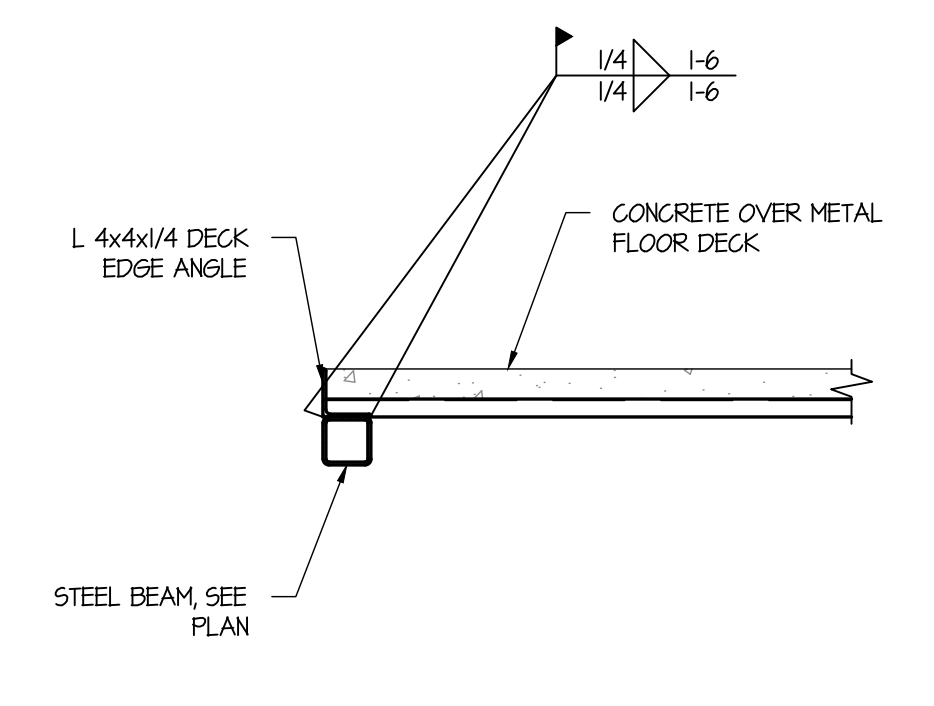
**2 INTERIOR COLUMNS AGAINST MASONRY WALL DETAIL**  
NOT TO SCALE



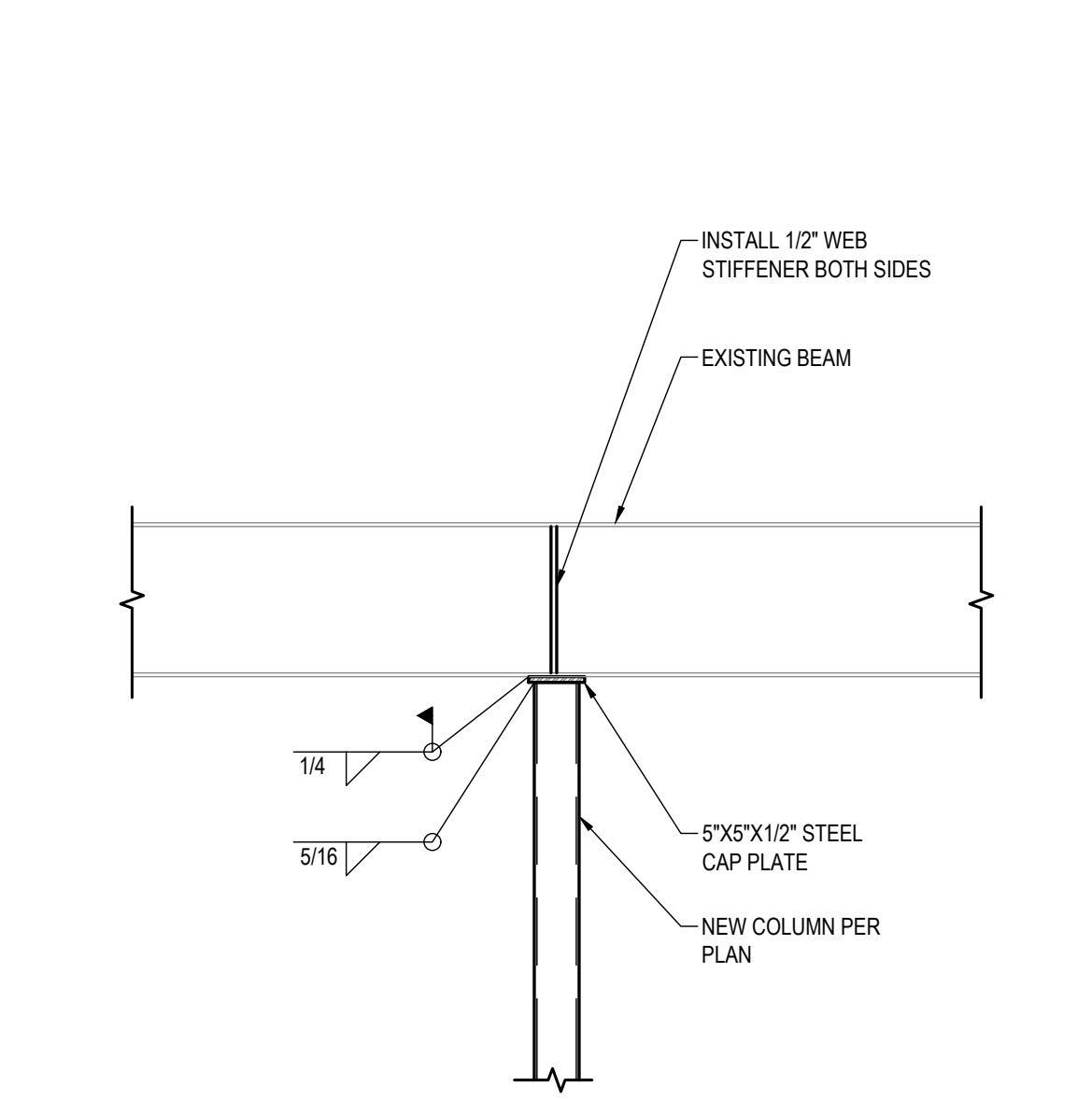
**3 STEEL BEAM TO STEEL COLUMN**  
NOT TO SCALE

*USE A325 'N' BOLTS*		
BEAM SIZE	*PLATE SIZE	BOLTS
W 12	0'-4"	(3) 3/4"
W 16	1'-1"	(4) 3/4"
W 18	1'-3"	(5) 3/4"
W 21	1'-6"	(6) 3/4"
W 24	1'-8"	(6) 3/4"
W 27	1'-11"	(7) 3/4"
W 30	2'-2"	(8) 3/4"
W 33	2'-5"	(9) 3/4"

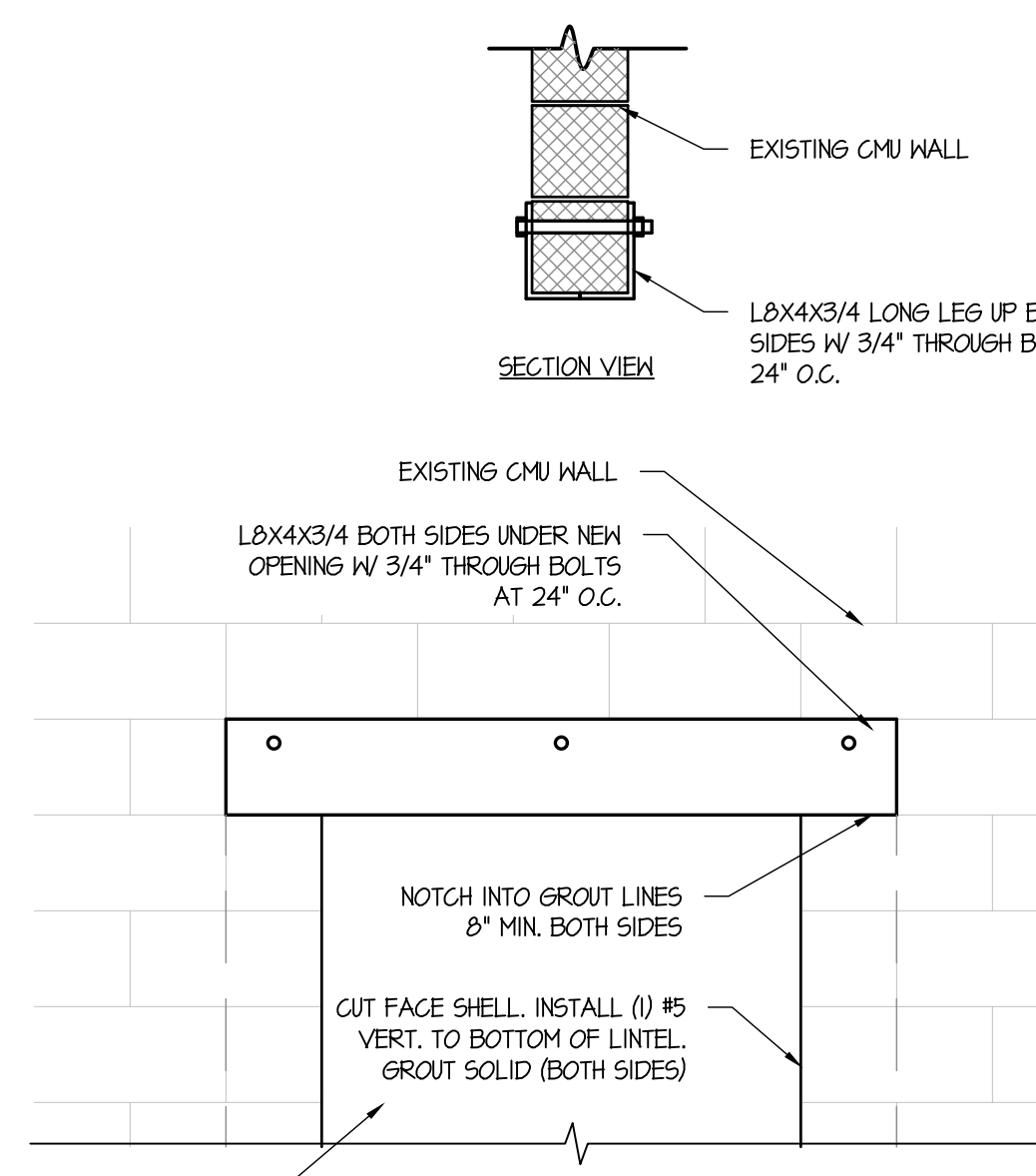
\*PLATE THICKNESS SHALL BE 3/8" FOR ROOF BEAMS  
\*PLATE THICKNESS SHALL BE 1/2" FOR FLOOR BEAMS



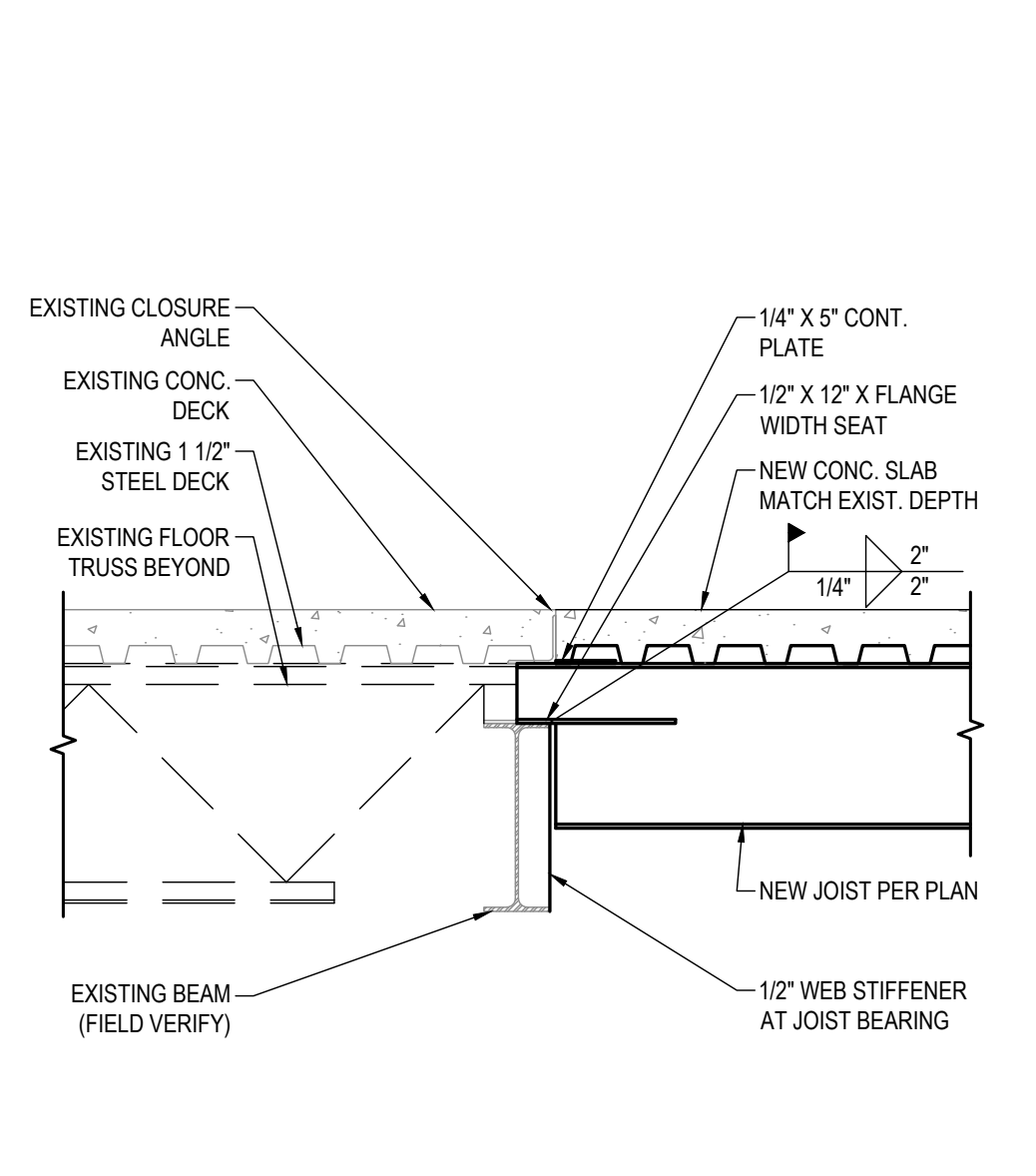
**4 EDGE OF OPENING AT STEEL BEAM**  
NOT TO SCALE



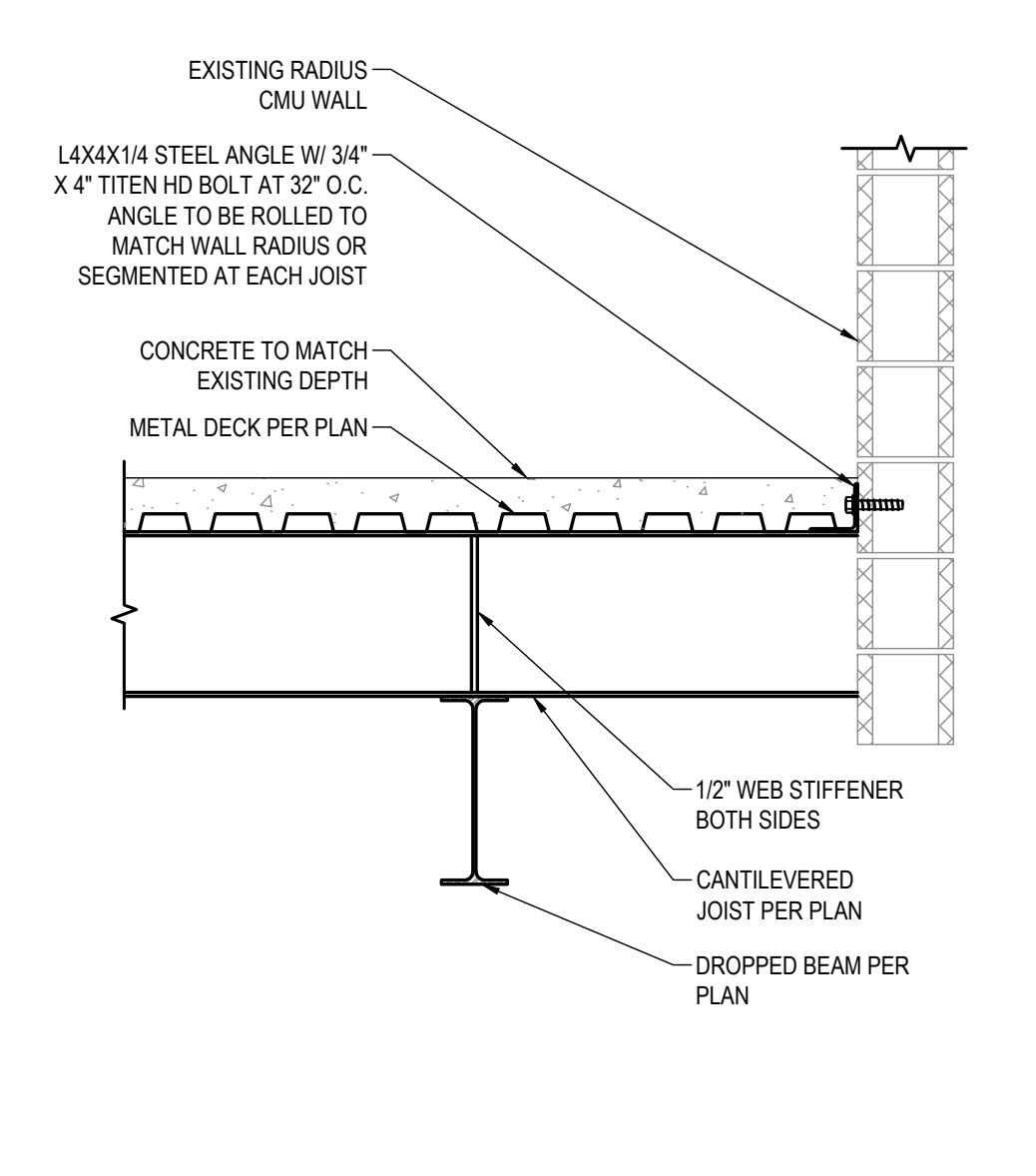
**5 NEW COLUMN AT EXISTING STEEL BEAM**  
NOT TO SCALE



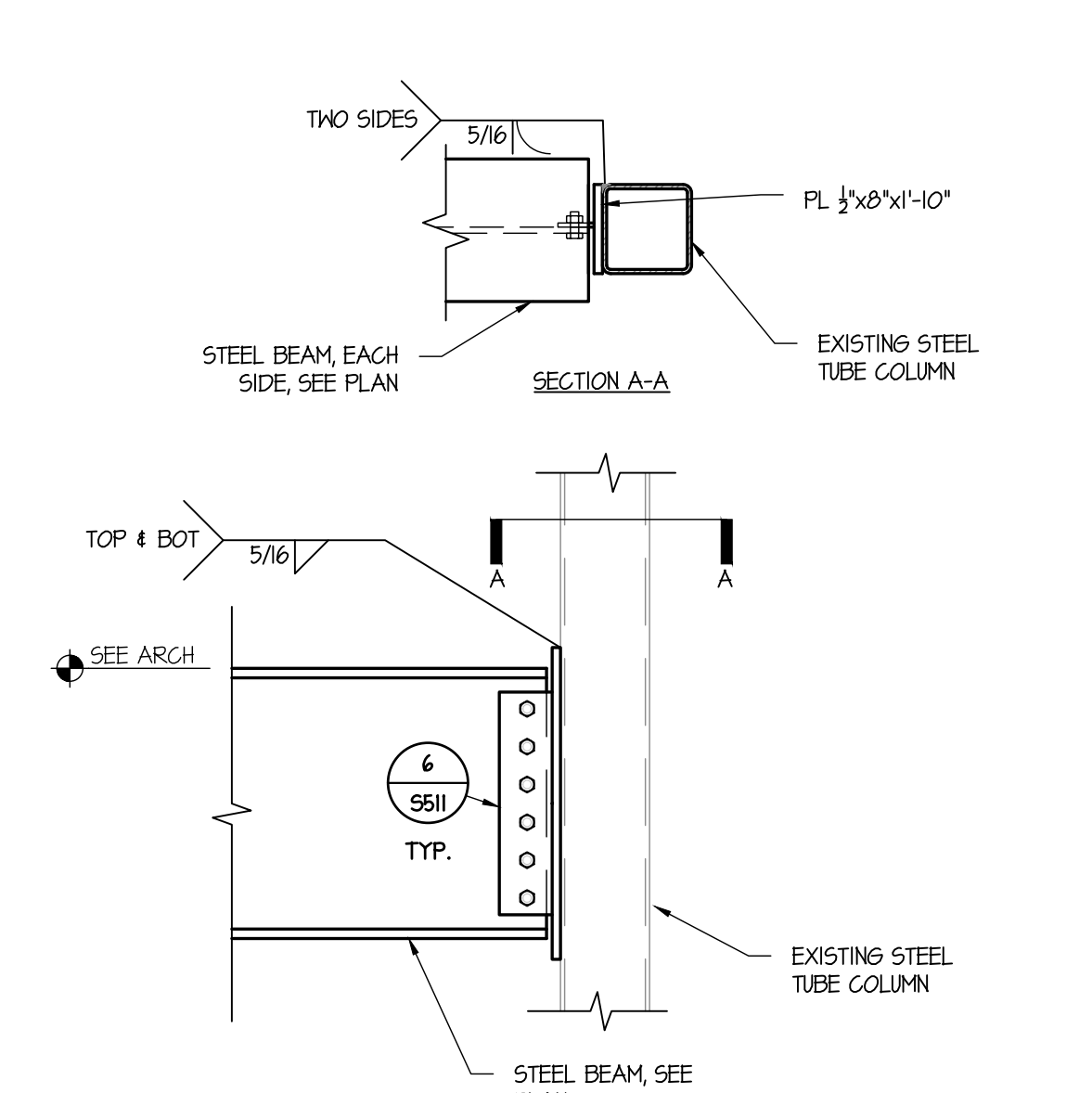
**6 NEW OPENING IN EXISTING CMU WALL**  
NOT TO SCALE



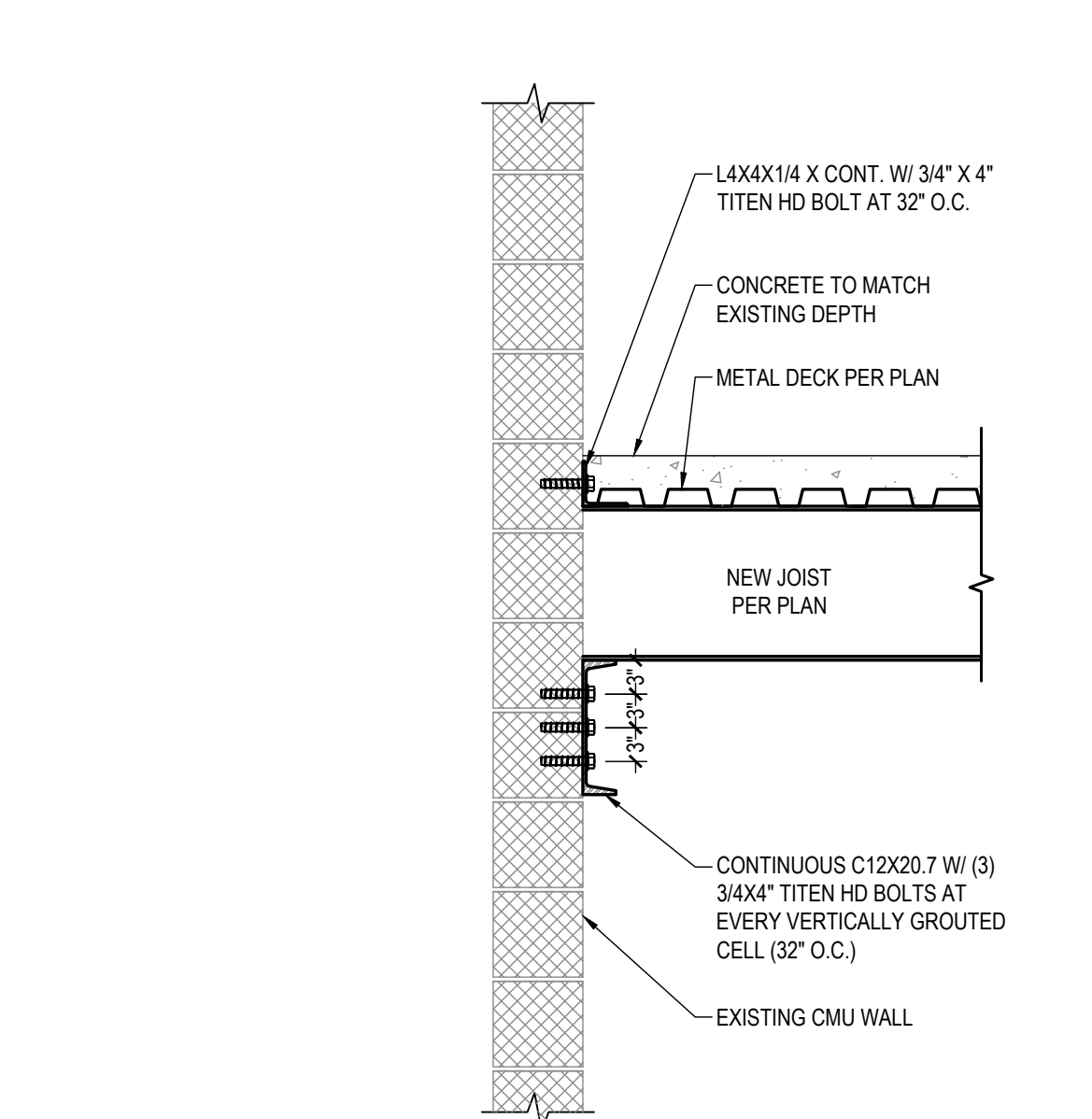
**7 NEW JOIST AT EXISTING BEAM**  
NOT TO SCALE



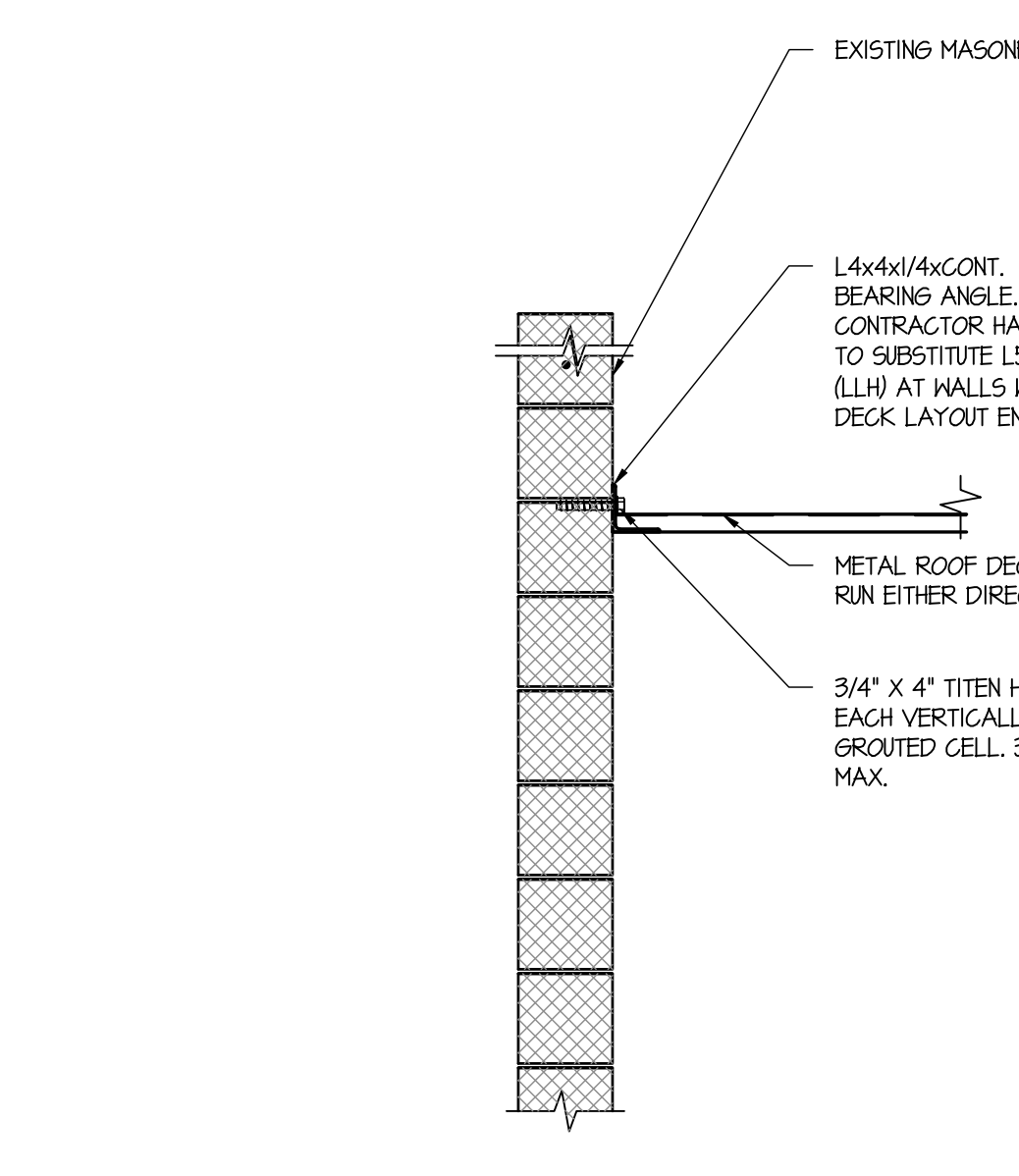
**8 CANTILEVER BEAM CONNECTION**  
NOT TO SCALE



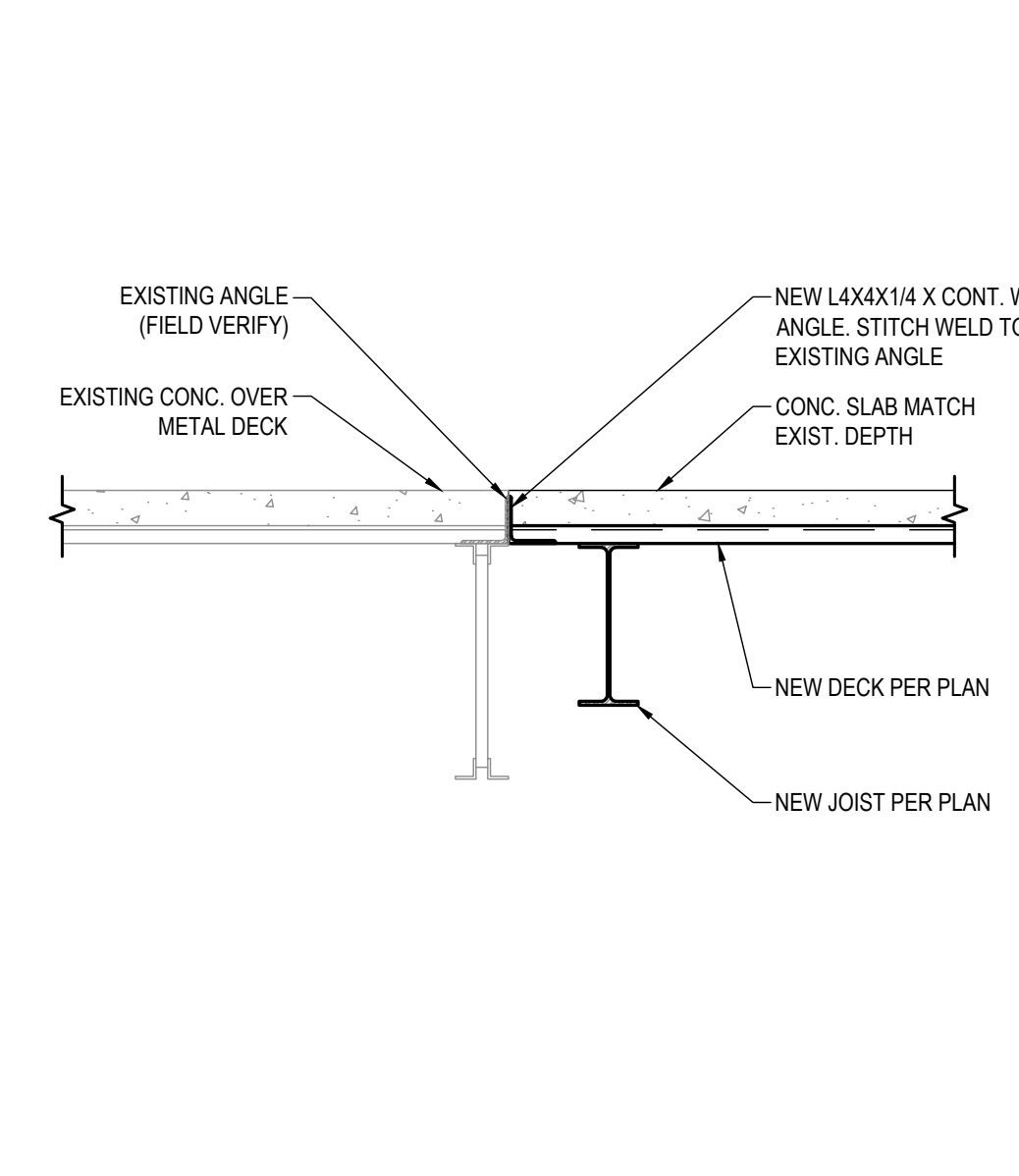
**9 BEAM AT EXISTING COLUMN**  
NOT TO SCALE



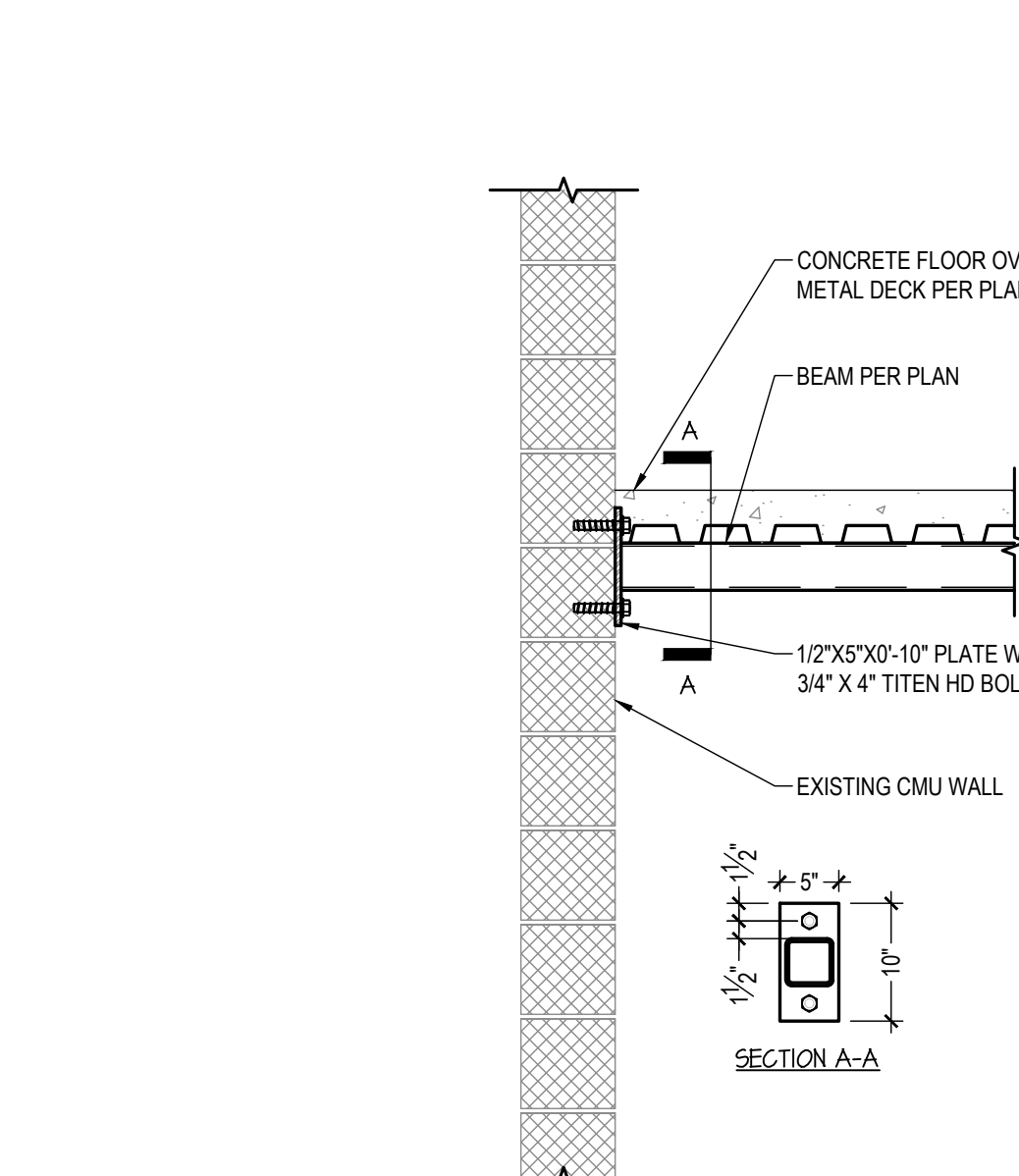
**10 JOIST AT EXISTING WALL**  
NOT TO SCALE



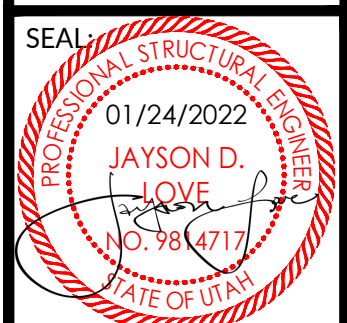
**11 DECK AT EXISTING CMU WALL**  
NOT TO SCALE



**12 NEW FLOOR TO EXISTING FLOOR**  
NOT TO SCALE



**13 BEAM TO CMU WALL DETAIL**  
NOT TO SCALE



DATE: 01/19/2022  
PROJECT: 21-311  
DRAWN BY: WM

REVISIONS	
MARK	DATE / DESC.

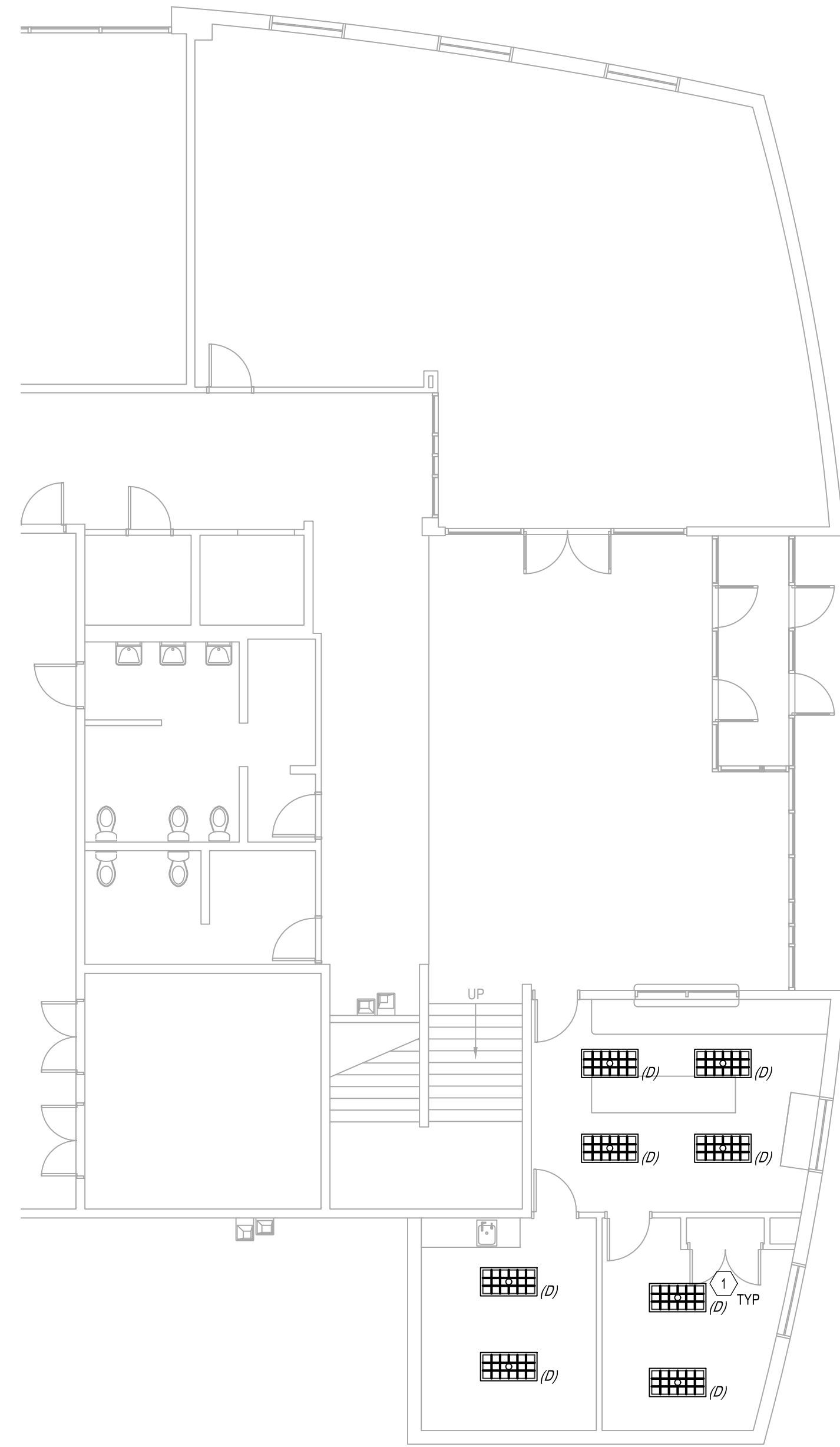
FOOTING AND FOUNDATION DETAILS

SHEET NUMBER:  
**S501**

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.



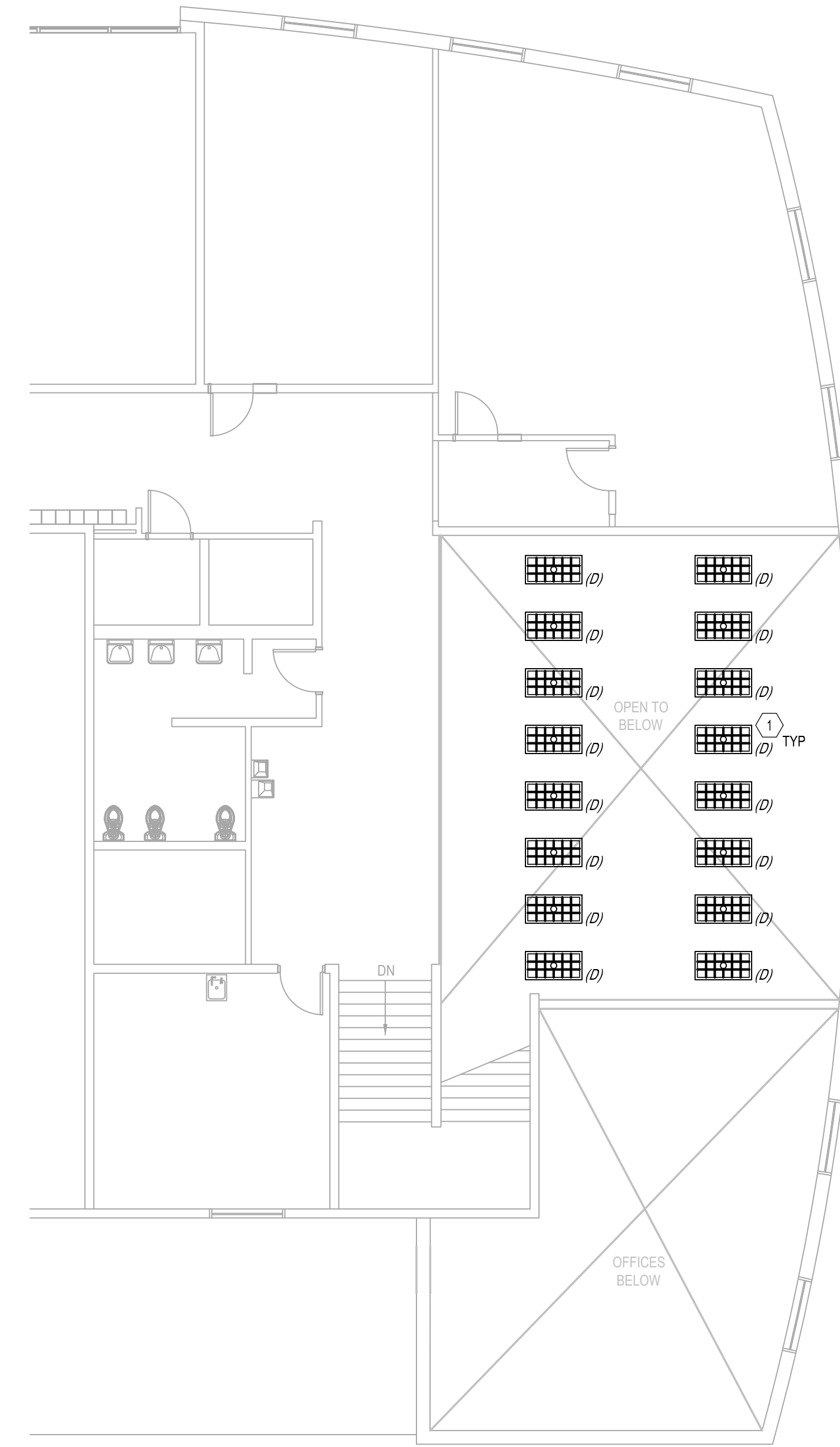
By: Jsmith; on 04, 2022 - 2:52pm, X:\Projects\2021\21275.01 - Davinci Academy Ogdan Classroom Addition\E200.dwg; JSmith; 2/2/2022 2:52:00 PM; JSmith; 2/2/2022 2:52:00 PM; JSmith; 2/2/2022 2:52:00 PM. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.



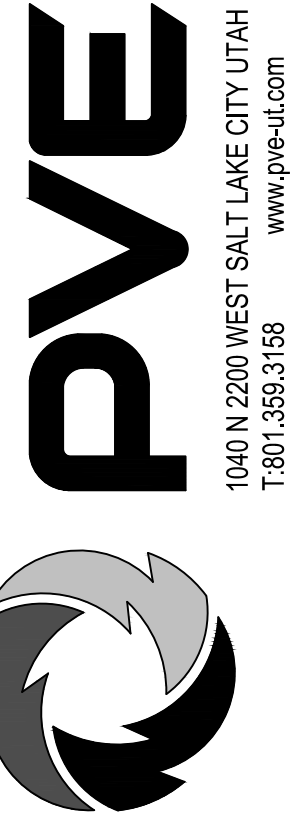
**A** LEVEL 1 DEMOLITION ELECTRICAL PLAN  
E200 SCALE: 1/8" = 1'-0"

**KEYED NOTES (#):**

- 1. 3-LAMP 48" 32-WATT T8 FLUORESCENT, 18-CELL PARACUBE TROFFER. RE-LAMP AND RE-BALLAST TO LIKE-NEW CONDITIONS PRIOR TO RE-USING. ANY LUMINAIRES NOT RE-USED SHALL BE RETURNED TO OWNER.



**B** LEVEL 2 DEMOLITION ELECTRICAL PLAN  
E200 SCALE: 1/8" = 1'-0"



**DAVINCI ACADEMY REMODEL**  
215 22ND STREET  
OGDEN, UTAH

NO.	DATE	DESCRIPTION

DATE.....	1/4/2022
SCALE.....	SEE DWG.
DRAWN.....	J.SMITH
CHECKED.....	J.SMITH
JOB NO.....	21275.01

SHEET TITLE  
**DEMOLITION ELECTRICAL PLANS**

SHEET NO.  
**E200**

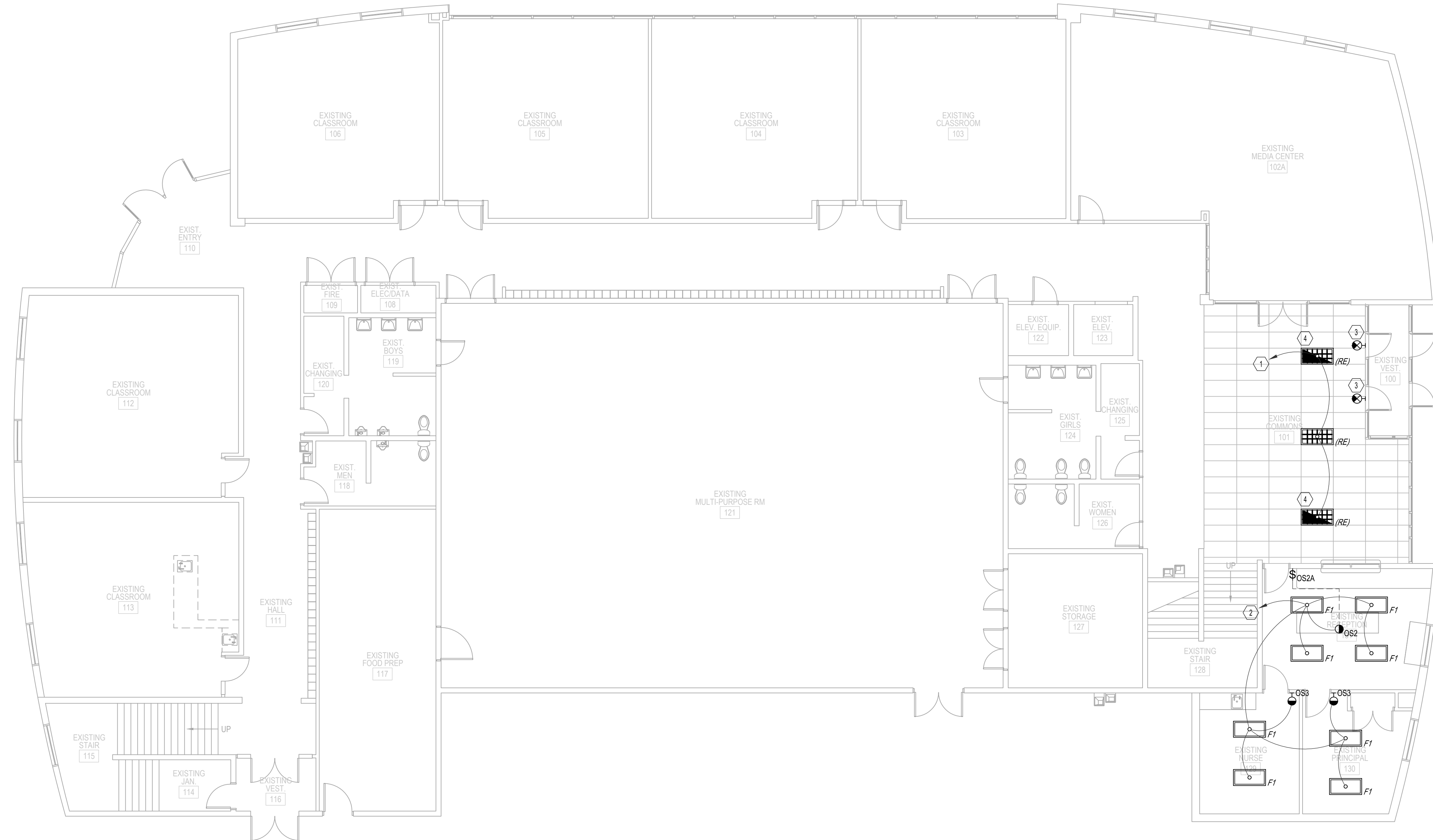
By: Jamih: on 04, 2022 - 2:52pm. X:\Projects\2021\21275.01 - Davinci Academy Ogden Classroom Addition\E201\12175.01.dwg - Davinci Academy Ogden Classroom Addition\E201\12175.01.dwg. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

**GENERAL NOTES:**

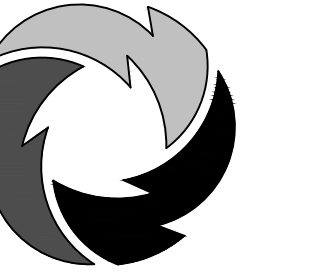
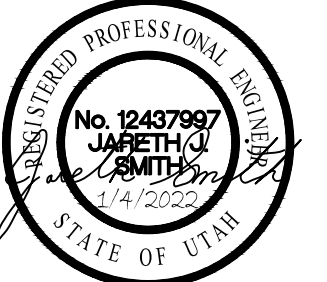
- A. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES AND LUMINAIRES WITHIN SCOPE OF WORK PRIOR TO BEGINNING NEW WORK. RE-CONNECT ALL CIRCUITS AS NEEDED AND ENSURE DESIGN INTEGRITY OF SPACES WHICH ARE EXISTING-TO-REMAIN.
- B. LIGHTING IN ALL SPACES HAS BEEN DESIGNED IN ACCORDANCE WITH THE STATE HEALTH DEPARTMENT CODE R392-200-8 TABLE 1.

**KEYED NOTES (#):**

1. CONNECT RELOCATED COMMONS LIGHTING TO EXISTING 277-VOLT CORRIDOR CIRCUIT.
2. CONNECT NEW RECEPTION & OFFICES LIGHTING TO EXISTING CIRCUIT.
3. NEW EXIT SIGN TO MATCH EXISTING. TIE INTO EXISTING UN-SWITCHED EMERGENCY LIGHTING CIRCUIT.
4. PROVIDE POWER SENTRY #PS1400QD-MVOLT EMERGENCY FLUORESCENT BATTERY PACK WITH POWER SENTRY #ELA-TSPLP REMOTE TEST SWITCH PILOT LIGHT FOR RELOCATED PARABOLIC TROFFER. SEE DETAIL D ON E401 FOR WIRING.



**A** LEVEL 1 ELECTRICAL PLAN  
 E201 SCALE: 1/8" = 1'-0"



**DAVINCI ACADEMY REMODEL**  
 215 22ND STREET  
 OGDEN, UTAH

NO.	DATE	DESCRIPTION

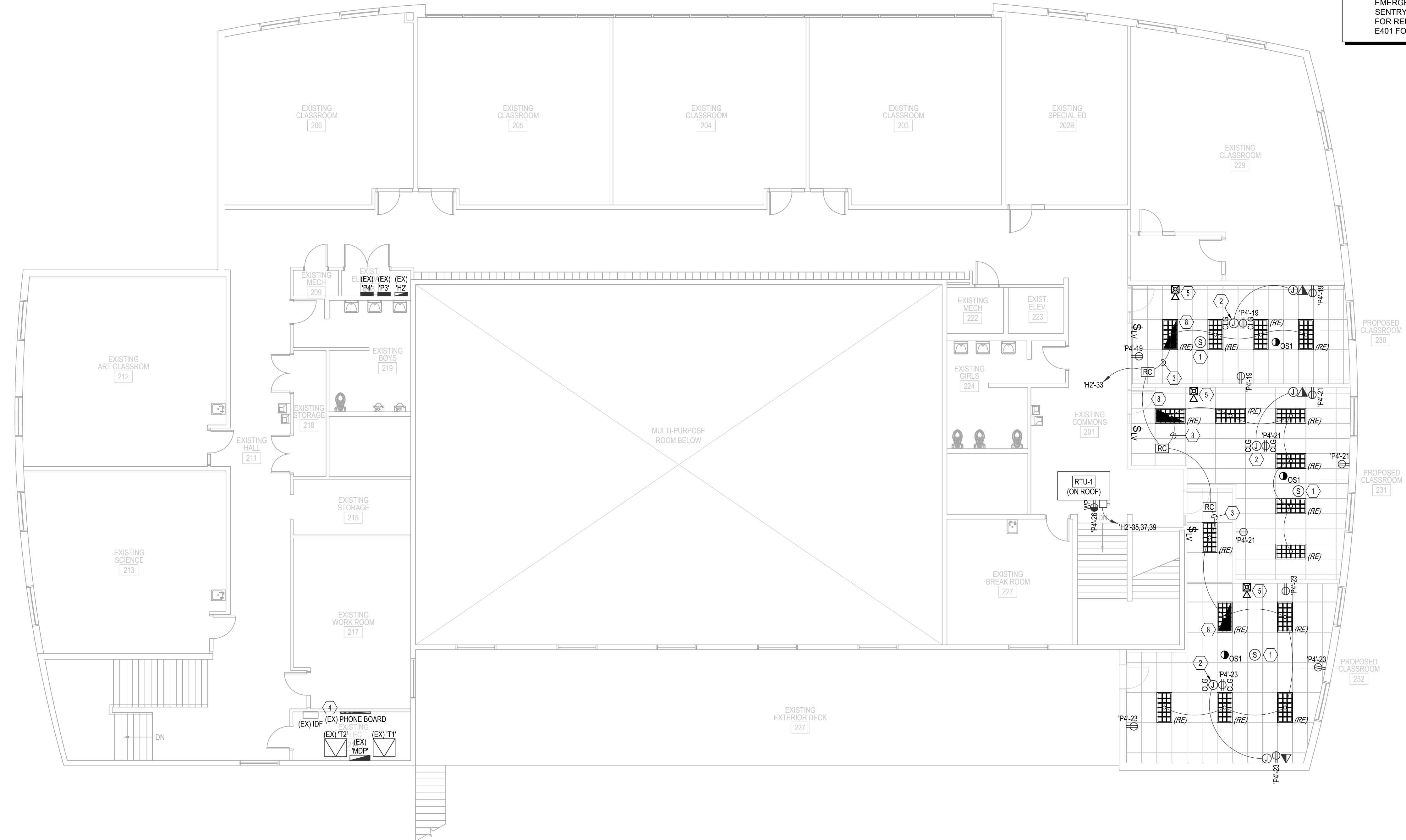
DATE	1/4/2022
SCALE	SEE DWG.
DRAWN	J.SMITH
CHECKED	J.SMITH
JOB NO.	21275.01

SHEET TITLE  
**LEVEL 1 NEW ELECTRICAL PLAN**

SHEET NO.  
**E201**



By: Jamih: on 04, 2022 - 2:52pm, X:\Projects\2021\12175.01 - Davinci Academy Ogdan Classroom Addition\E201\right\05-2007-P\19194614.dwg - Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.



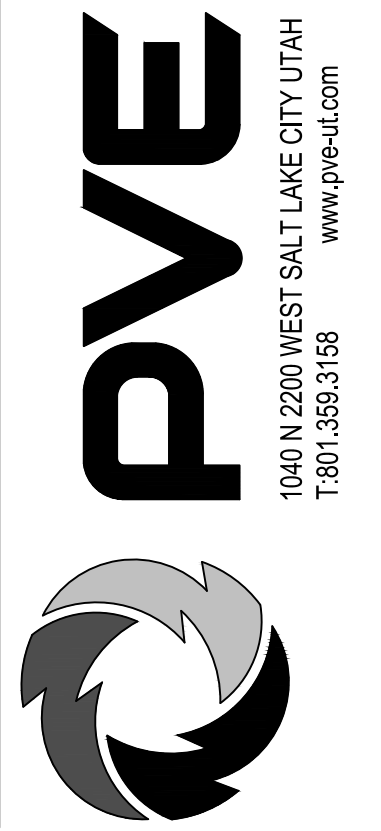
GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES AND LUMINAIRES WITHIN SCOPE OF WORK PRIOR TO BEGINNING NEW WORK. RE-CONNECT ALL CIRCUITS AS NEEDED AND ENSURE DESIGN INTEGRITY OF SPACES WHICH ARE EXISTING-TO-REMAIN.
- B. ALL NEW RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE PER NEC 210.
- C. ALL FLUORESCENT LUMINAIRES IN CLASSROOMS SHALL BE WIRED FOR BI-LEVEL SWITCHING. SEE DETAIL E ON E401.
- D. LIGHTING IN ALL SPACES HAS BEEN DESIGNED IN ACCORDANCE WITH THE STATE HEALTH DEPARTMENT CODE R392-200-8 TABLE 1.

KEYED NOTES (#):

1. NEW SPEAKER TO MATCH SPEAKERS IN EXISTING CLASSROOMS. CONNECT AS REQUIRED TO EXISTING BUILDING SYSTEM. COORDINATE WITH OWNER.
2. CEILING-MOUNTED RECEPTACLE WITH J-BOX TO WALL STATION FOR VGA OR HDMI CABLE. PROVIDE 1" CONDUIT BETWEEN CLG AND WALL BOX FOR CABLING BY OTHERS.
3. CONTROLLED LINES OUT FROM ROOM CONTROLLER FOR BI-LEVEL SWITCHING.
4. EXISTING INTERMEDIATE DISTRIBUTION FRAME (IDF) AND PHONE BOARD. COORDINATE WITH OWNER I.T. REPRESENTATIVE.
5. NEW FIRE ALARM DEVICE TO BE TIED INTO EXISTING BUILDING SYSTEM. CONTACT LOCAL MANUFACTURER'S REPRESENTATIVE FOR ADDITION REQUIREMENTS.
6. NOT USED.
7. PROVIDE UN-SWITCHED HOT TO NEW EMERGENCY LUMINAIRE.
8. PROVIDE POWER SENTRY #PS1400QD-MVOLT EMERGENCY FLUORESCENT BATTERY PACK WITH POWER SENTRY #ELA-TSPLP REMOTE TEST SWITCH PILOT LIGHT FOR RELOCATED PARABOLIC TROFFER. SEE DETAIL D ON E401 FOR WIRING.

A LEVEL 2 ELECTRICAL PLAN  
E201 SCALE: 1/8" = 1'-0"



DAVINCI ACADEMY REMODEL  
215 22ND STREET  
OGDEN, UTAH

REVISIONS:	
NO.	DESCRIPTION

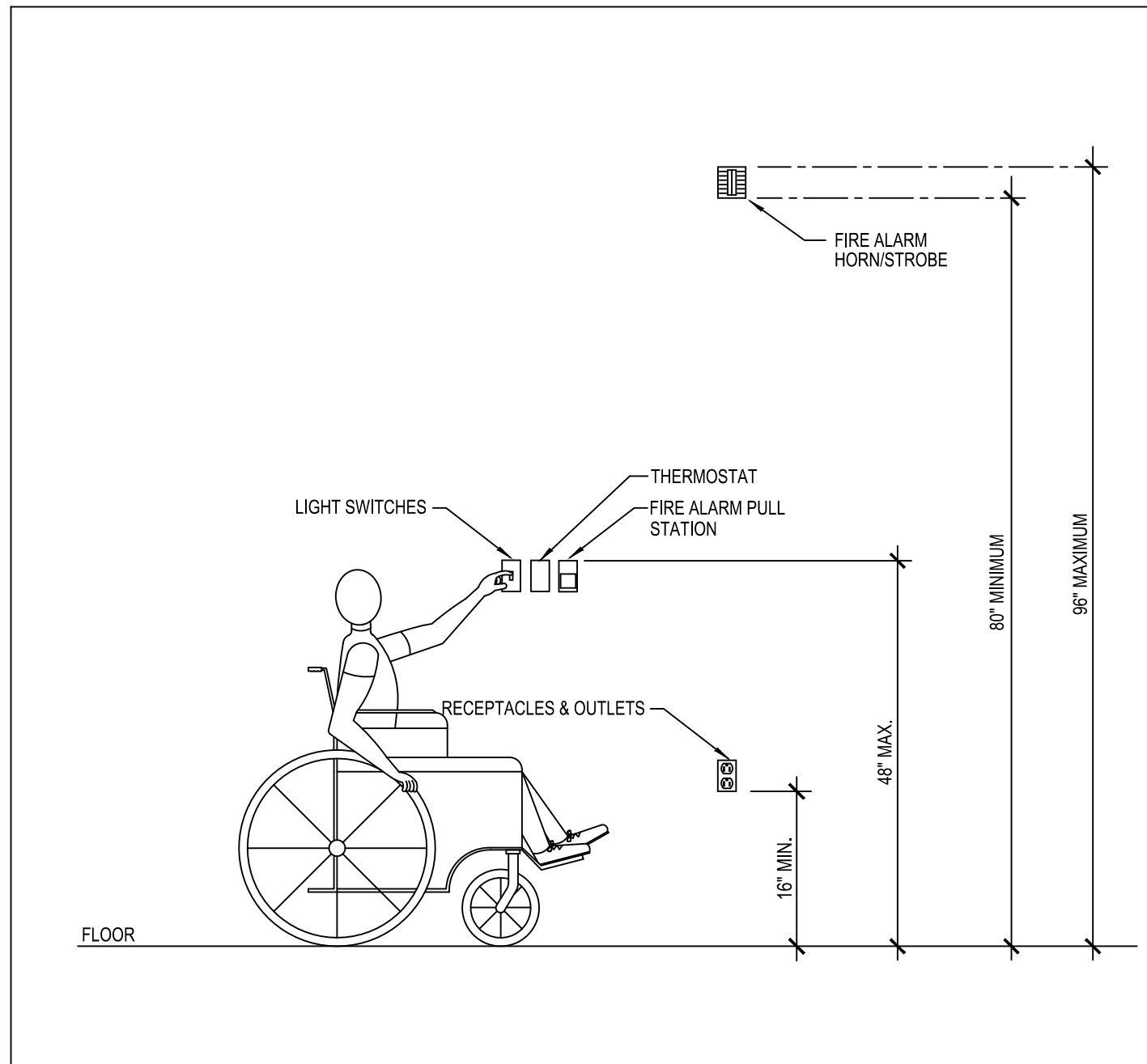
DATE: 1/4/2022  
 SCALE: SEE DWG.  
 DRAWN: J.SMITH  
 CHECKED: J.SMITH  
 JOB NO: 21275.01

SHEET TITLE  
LEVEL 2 NEW ELECTRICAL PLAN

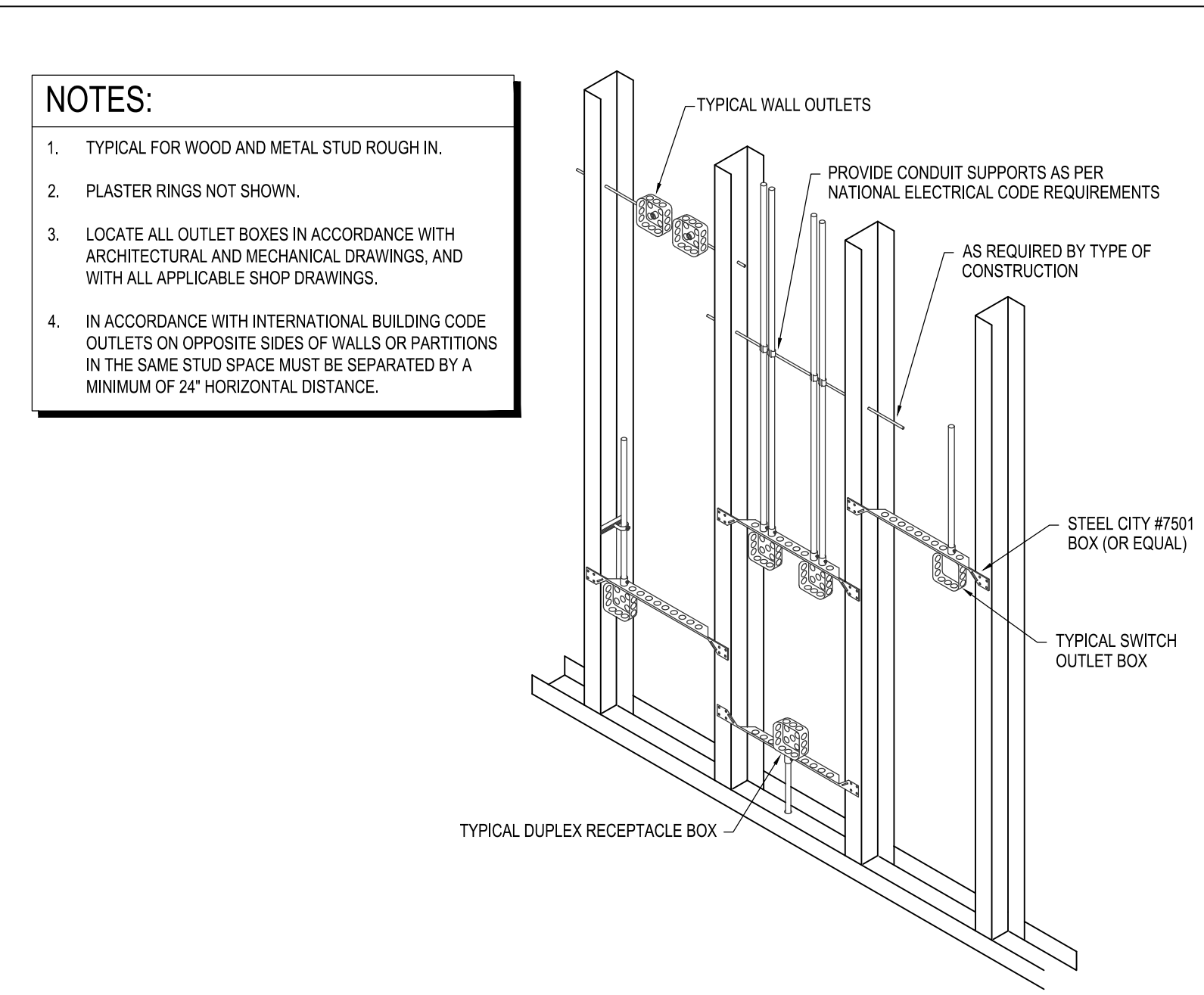
SHEET NO.  
E202



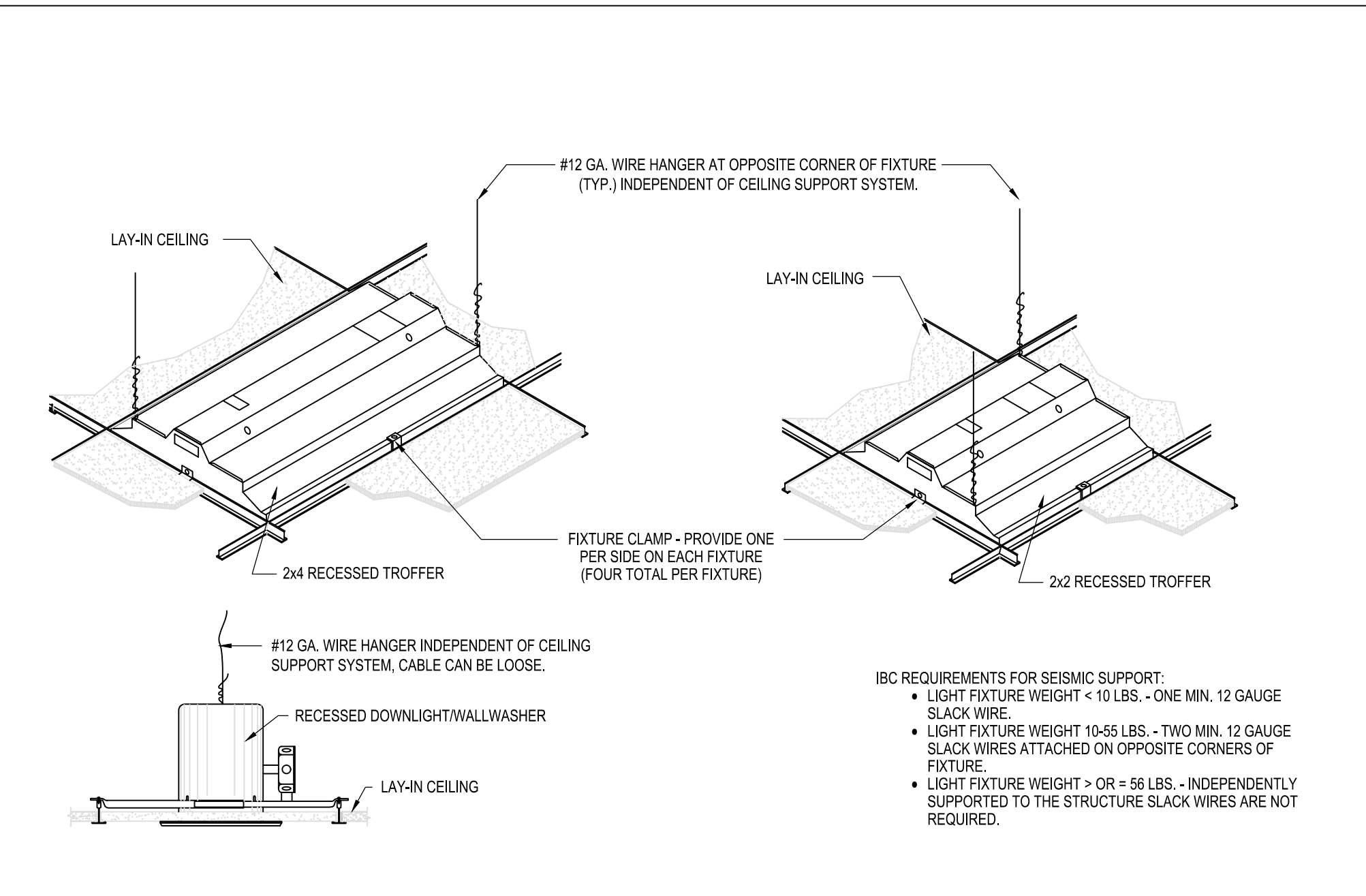
By: Jamih: on 04, 2022 - 2:52pm. X:\Projects\2021\21275.01 - Davinci Academy Ogdan Classroom Addition\E401\Copy\8/27/2022\8/27/2022.dwg, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.



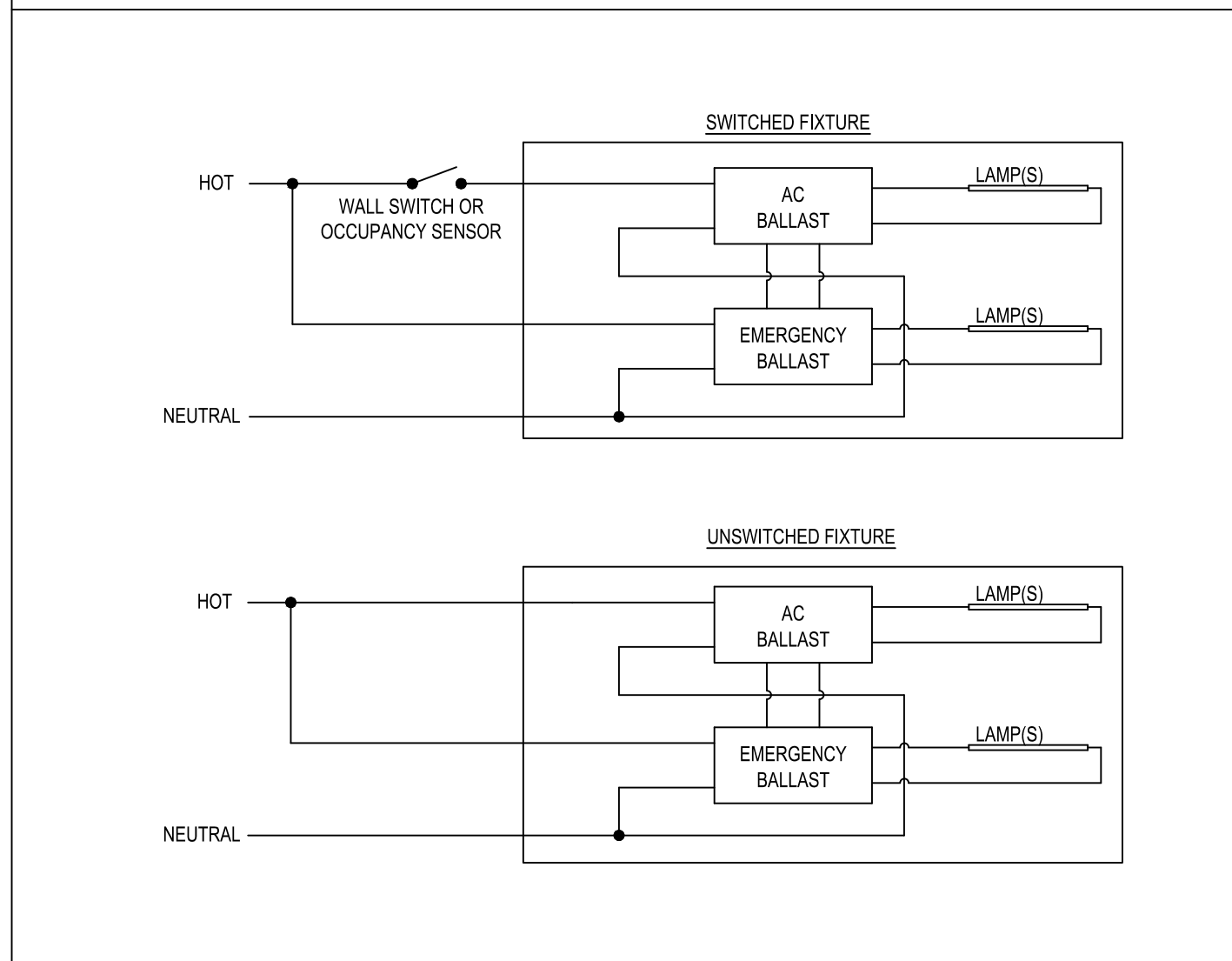
**A** MOUNTING HEIGHTS DETAIL  
E401



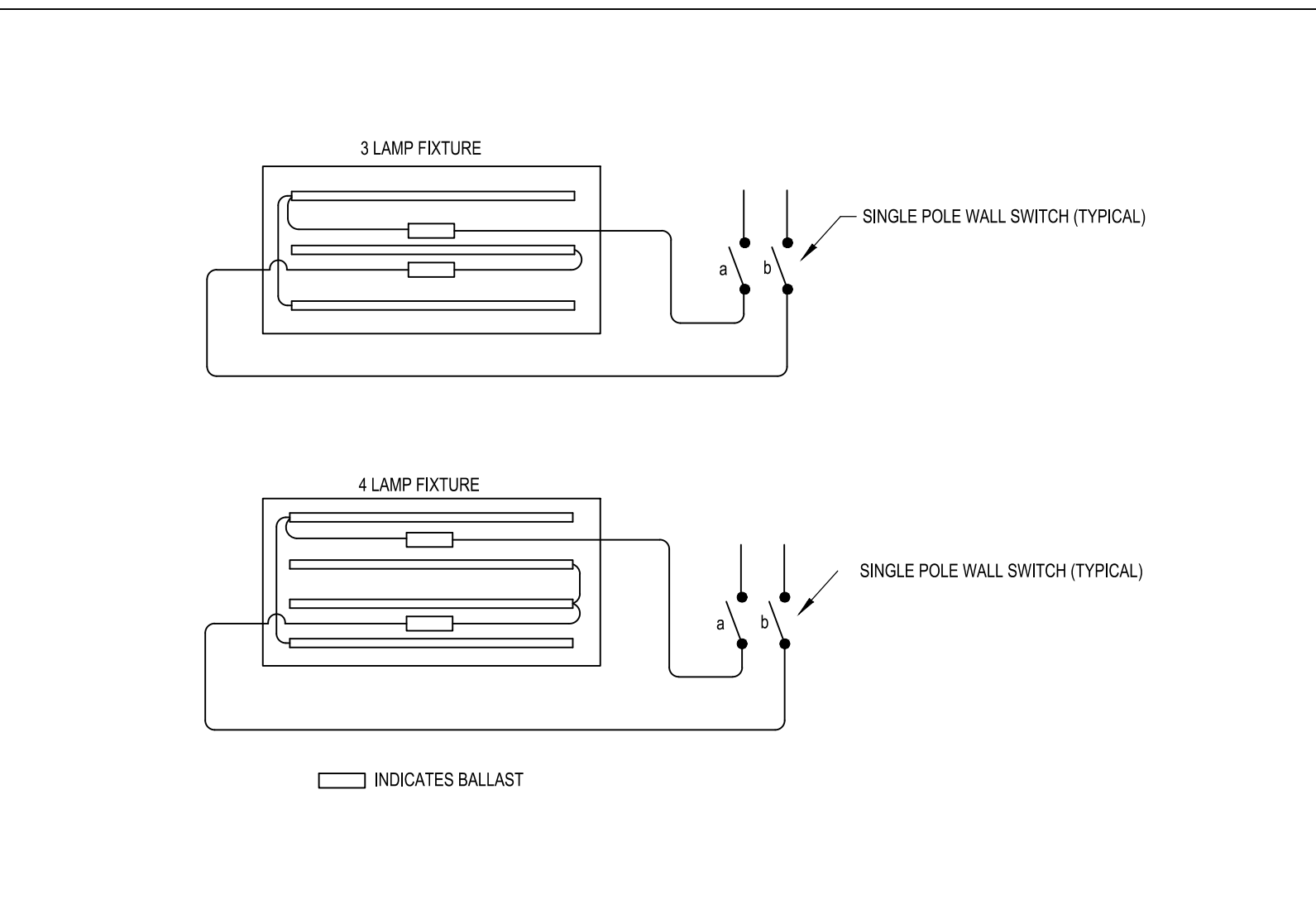
**B** TYPICAL ROUGH-IN REQUIREMENTS DETAIL  
E401



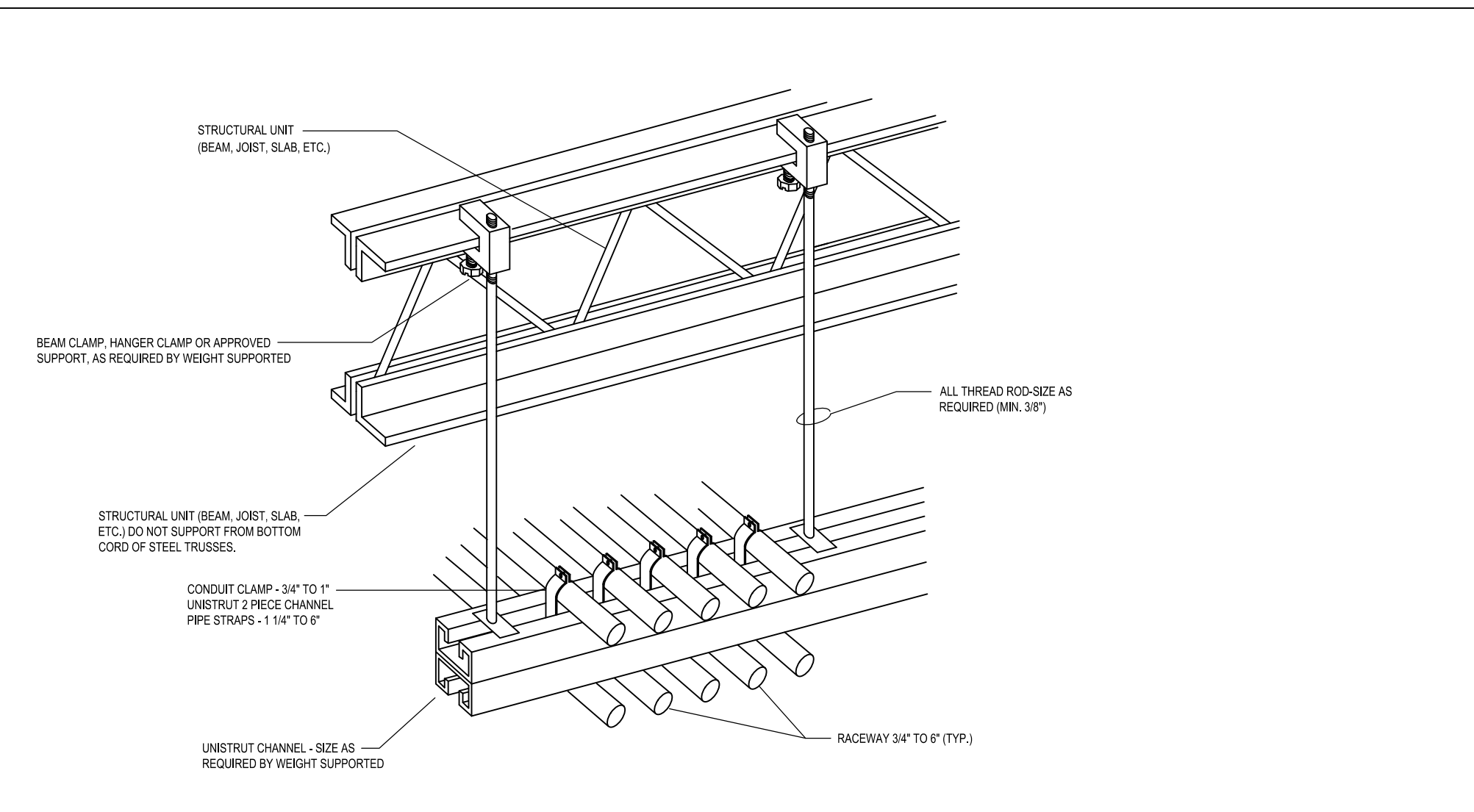
**C** LAY-IN GRID FIXTURE SEISMIC MOUNTING DETAILS  
E401



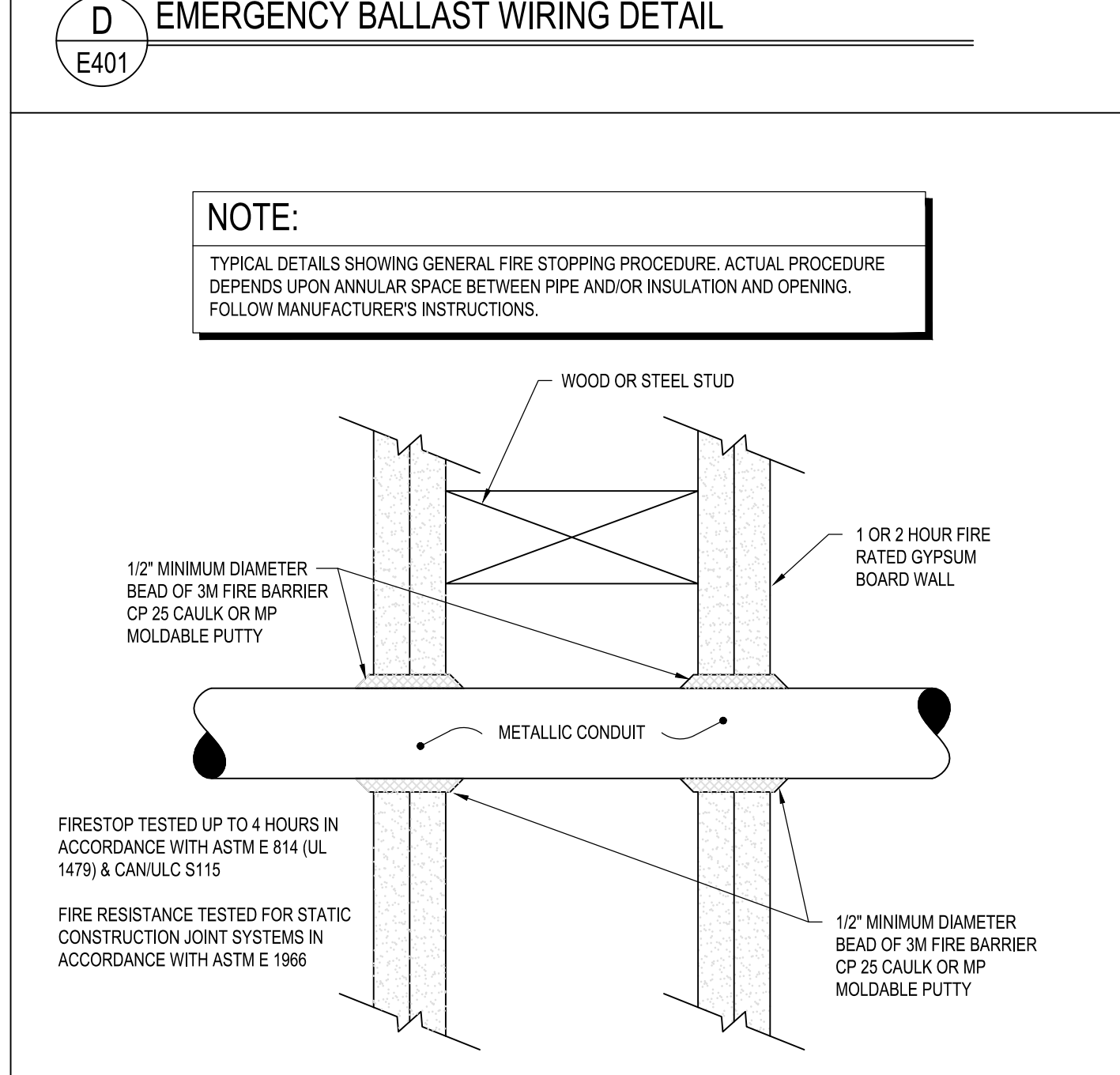
**D** EMERGENCY BALLAST WIRING DETAIL  
E401



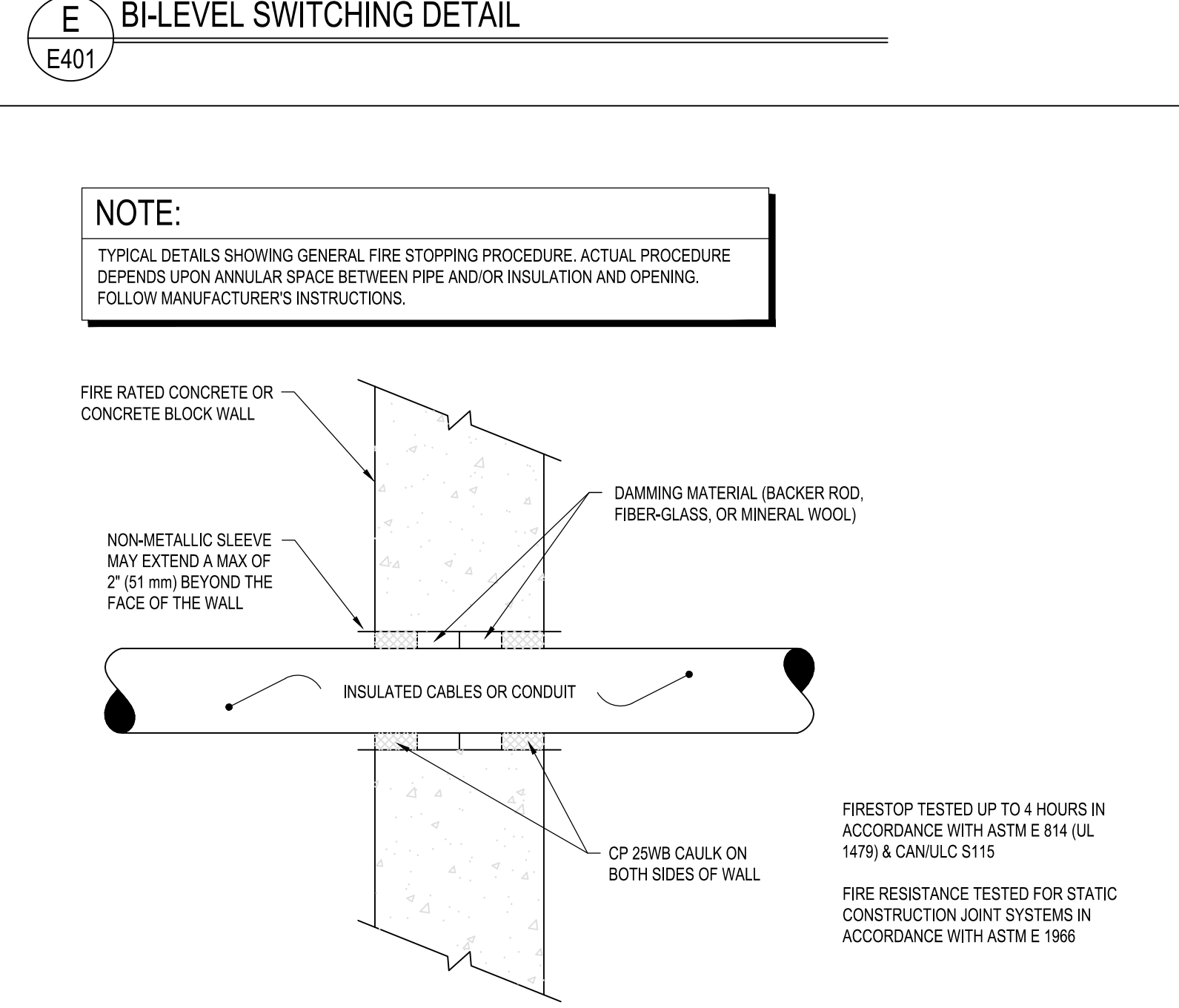
**E** BI-LEVEL SWITCHING DETAIL  
E401



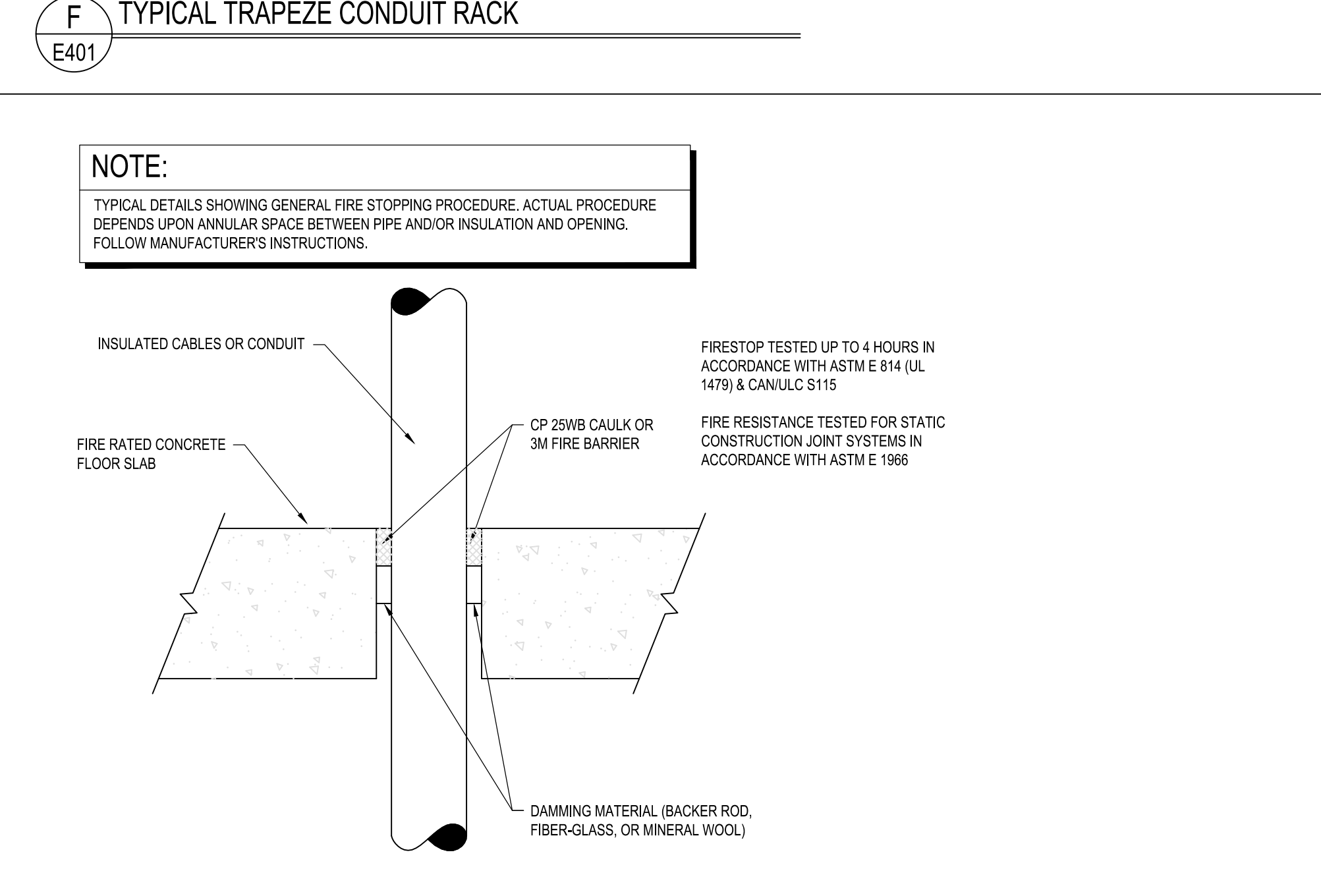
**F** TYPICAL TRAPEZE CONDUIT RACK  
E401



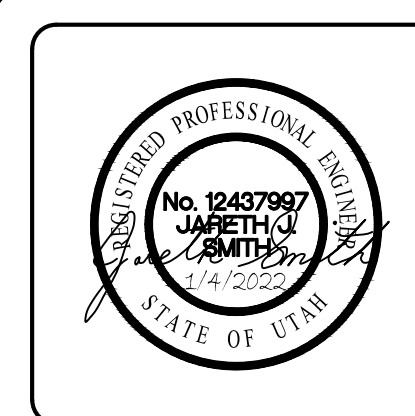
**G** FIRE STOP THRU GYPSUM BOARD WALL  
E401



**H** FIRESTOP THRU CONCRETE/MASONRY WALL  
E401



**I** FIRESTOP THRU CONCRETE FLOOR  
E401



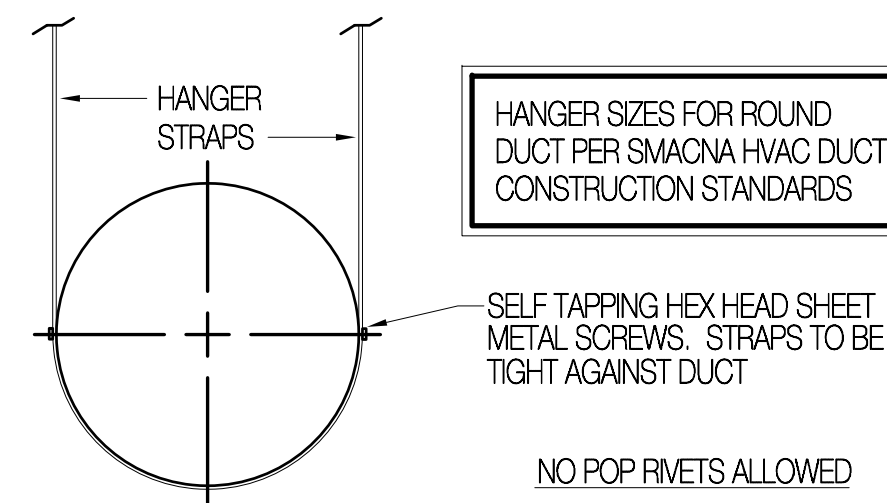
**DAVINCI ACADEMY REMODEL**  
215 22ND STREET  
OGDEN, UTAH

NO.	DATE	DESCRIPTION

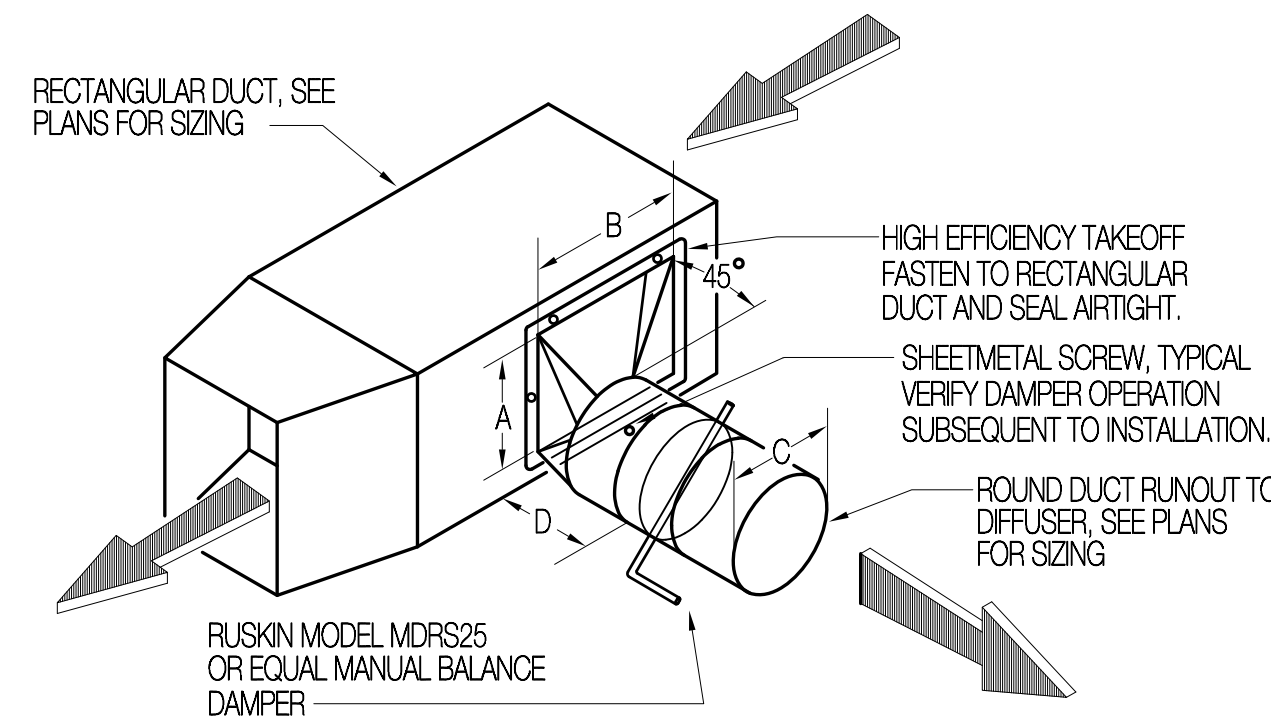
DATE: 1/4/2022  
SCALE: SEE DWG.  
DRAWN: J. SMITH  
CHECKED: J. SMITH  
JOB NO.: 21275.01

SHEET TITLE  
**ELECTRICAL  
DETAILS**

SHEET NO.  
**E401**



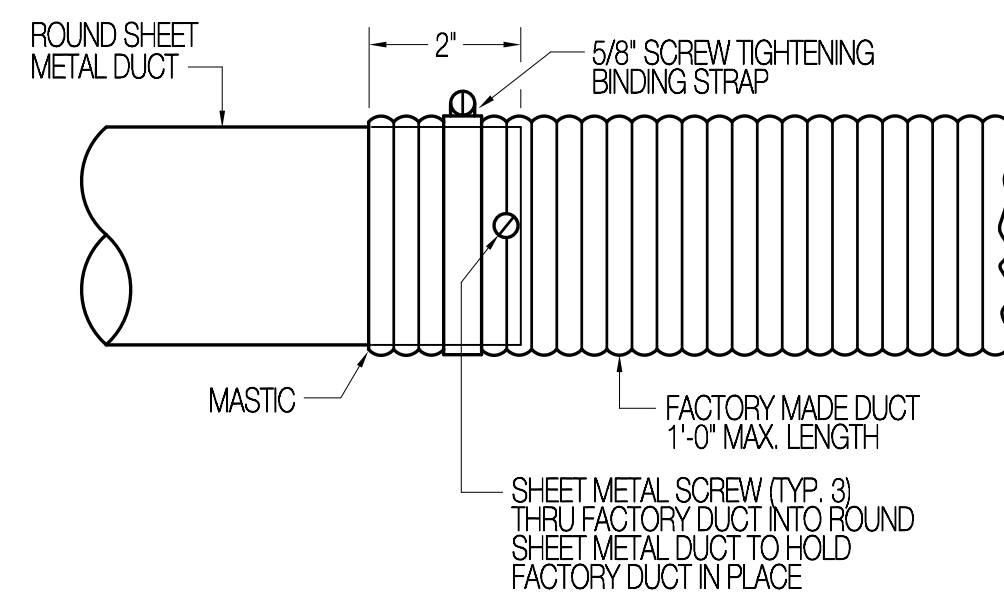
**7 RND. DUCT HANGER DETAIL**  
SCALE: NONE



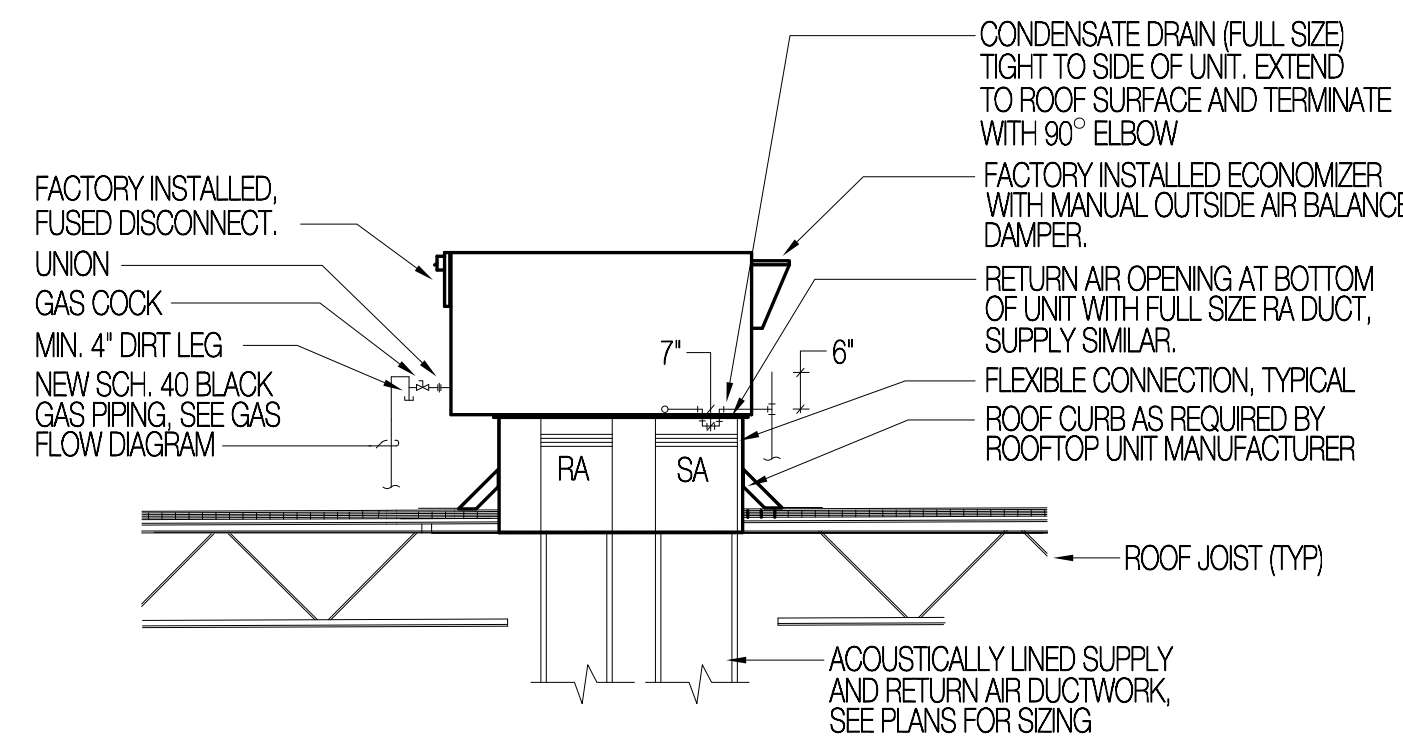
BRANCH SIZE (C)	THROAT DIM.		MIN. AREA AxB
	A	B	
6"	8-1/4"	12"	3.5 X AREA OF C
8"	10-1/4"	14"	2.8 X AREA OF C
10"	12"	15"	2.3 X AREA OF C
12"	14"	17"	2.1 X AREA OF C

LENGTH D SHALL BE A MINIMUM OF 11"

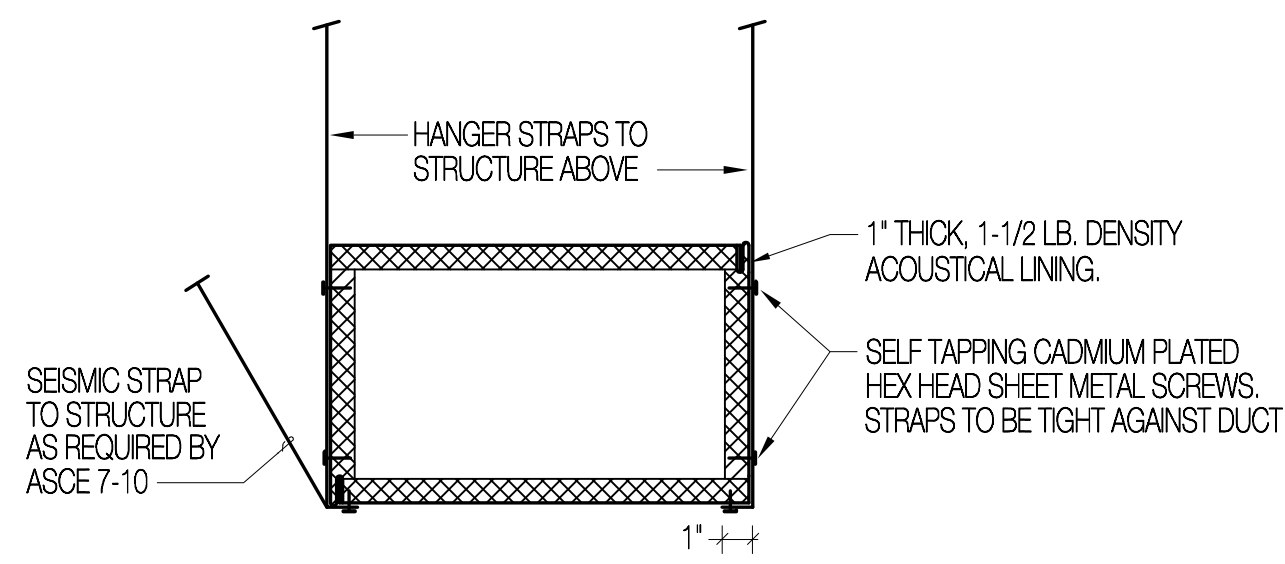
**8 ROUND DUCT RUNOUT DETAIL**  
SCALE: NONE



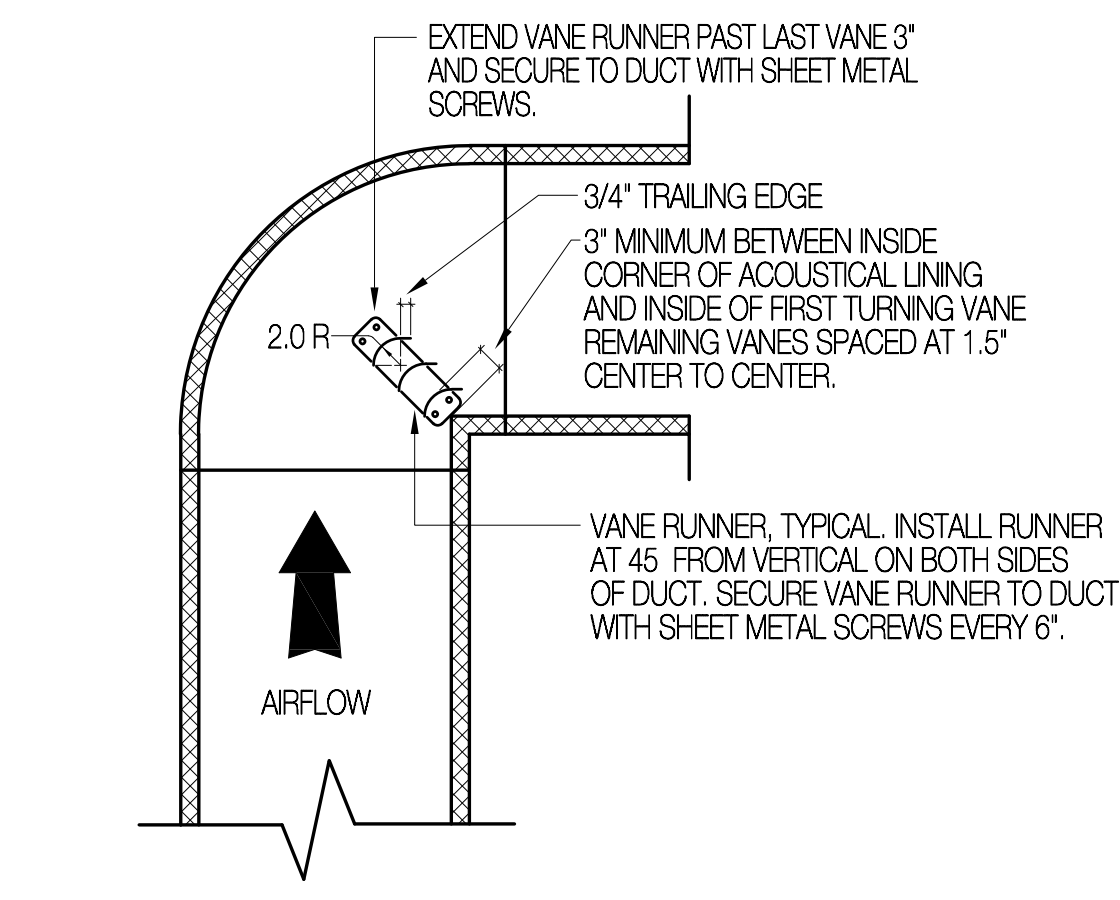
**9 FACTORY DUCT DETAIL**  
SCALE: NONE



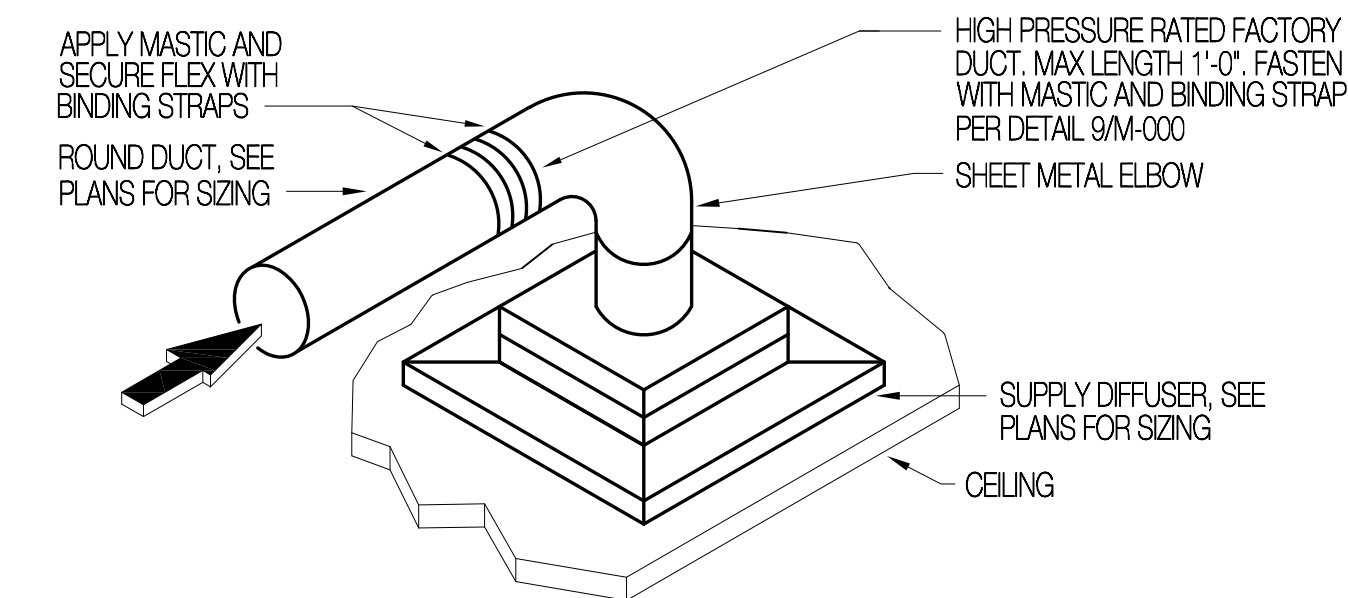
**10 RTU INSTALLATION DETAIL**  
SCALE: NONE



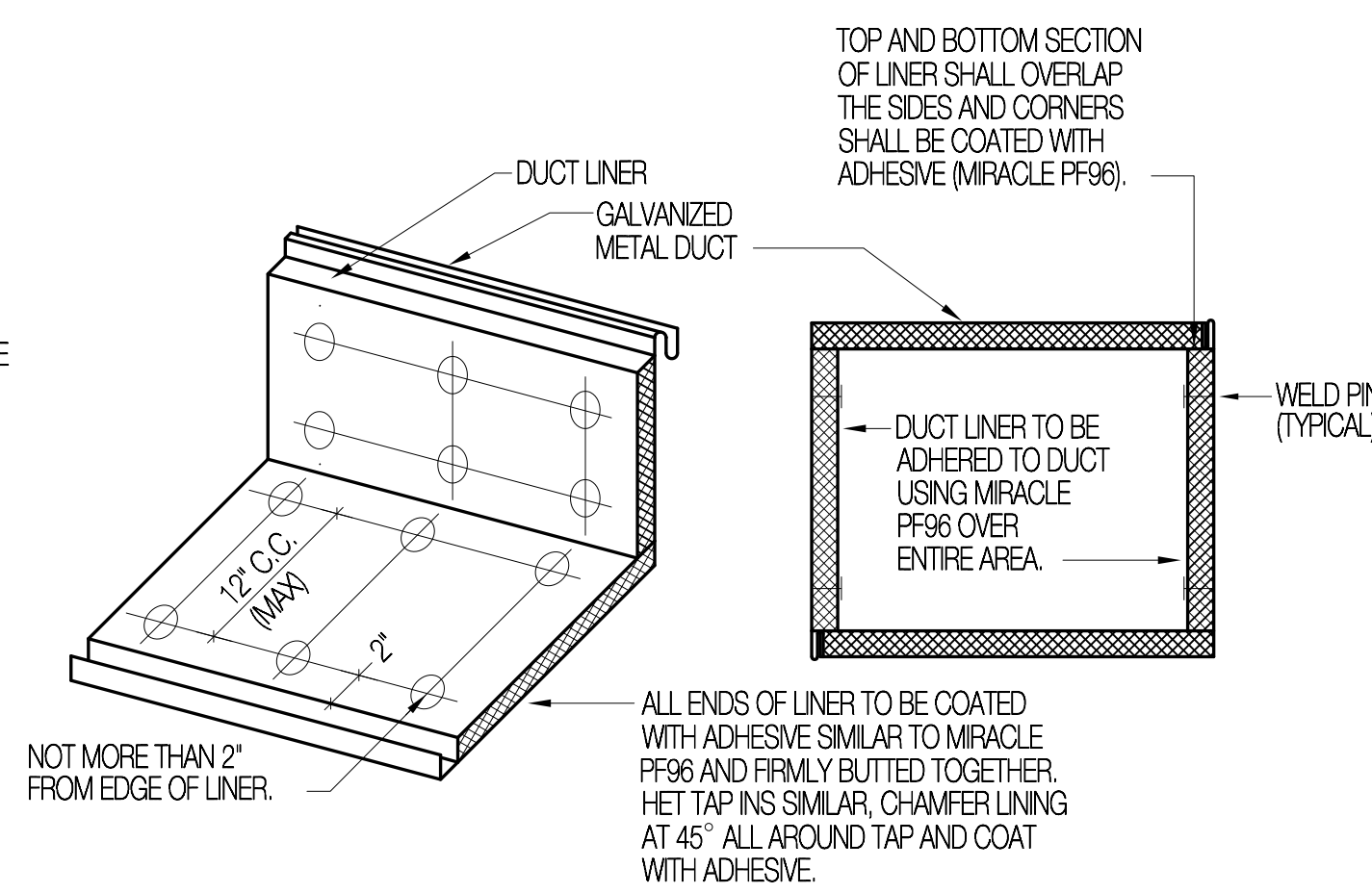
**3 RECT. DUCT HANGER DETAIL**  
SCALE: NONE



**4 TURNING VANE DETAIL**  
SCALE: NONE



**5 DIFFUSER CONNECTION DETAIL**  
SCALE: NONE



LINING FASTENERS:  
DURA DYNE MODEL CP WELD TYPE FASTENERS OR EQUIVALENT. ADHESIVE TYPE STICK CLIPS OR GRIP NAILS NOT ALLOWED.

**6 ACOUSTICAL LINER DETAIL**  
SCALE: NONE

**SYMBOL LEGEND**

---X---	SUPPLY AIR DIFFUSER	---HD---	HAND DAMPER, SEE DETAIL 8M-000
---G---	RETURN OR EXHAUST GRILLE	⊕	THERMOSTAT
---A---	ACOUSTICALLY LINED DUCTWORK (INSIDE CLEAR DIMENSION)	---	SUPPLY AIR DIRECTION
---	RECTANGULAR SUPPLY AIR DUCT CROSS SECTION	---	RETURN AIR DIRECTION
---	ROUND SUPPLY AIR DUCT CROSS SECTION	A.F.F.	ABOVE FINISHED FLOOR
---		---	SA
---		---	RA
---		---	NK

**HEATING/COOLING ROOFTOP UNIT (RTU)**

SYMBOL	HEATING SECTION		COOLING SECTION		FAN SECTION			COND. COIL AREA (SQ. FT.)	COND. COIL CFM	AMB. AIR TEMP.	MIN. EER	UNIT ELEC. REQUIREMENTS					YORK MODEL	REMARKS
	HEATING INPUT (BTU/H)	HEATING OUTPUT (BTU/H)	TOTAL CAP. (BTU/H)	SENS. CAP. (BTU/H)	CFM	E.S.P. (IN. WC.)	MOTOR HP					VOLTS	PH.	HZ	MCA	MOOP		
RTU-1	125,000	100,000	54,900	54,900	1,950	1.0	2.0	16.3	4,200	95°F	10.8	460	3	60	18.5	25	ZF060	(1)(2)(3)(4)(5)(6)(7)

① CAPACITY REQUIRED AT SITE ELEVATION AND CONDITIONS. ④ BELT DRIVE  
② PROVIDE UNIT WITH 120 V CONVENIENCE OUTLET. ⑤ BALANCE OUTSIDE AIR TO 385 CFM.  
③ FACTORY INSTALLED ECONOMIZER W/ BARO. RELIEF. ⑥ HI / LOW LIMIT SWITCHES (ZONE CONTROL) ⑦ HOT GAS BYPASS (ZONE CONTROL)

UNIT WEIGHTS:  
RTU-1: 570 LBS.

**GRILLES AND DIFFUSERS**

SYMBOL	CFM	NECK SIZE	FACE SIZE	KRUEGER MODEL	REMARKS
S-1	AS NOTED	AS NOTED	AS NOTED	1400A	
R-1	AS NOTED	AS NOTED	AS NOTED	6490	

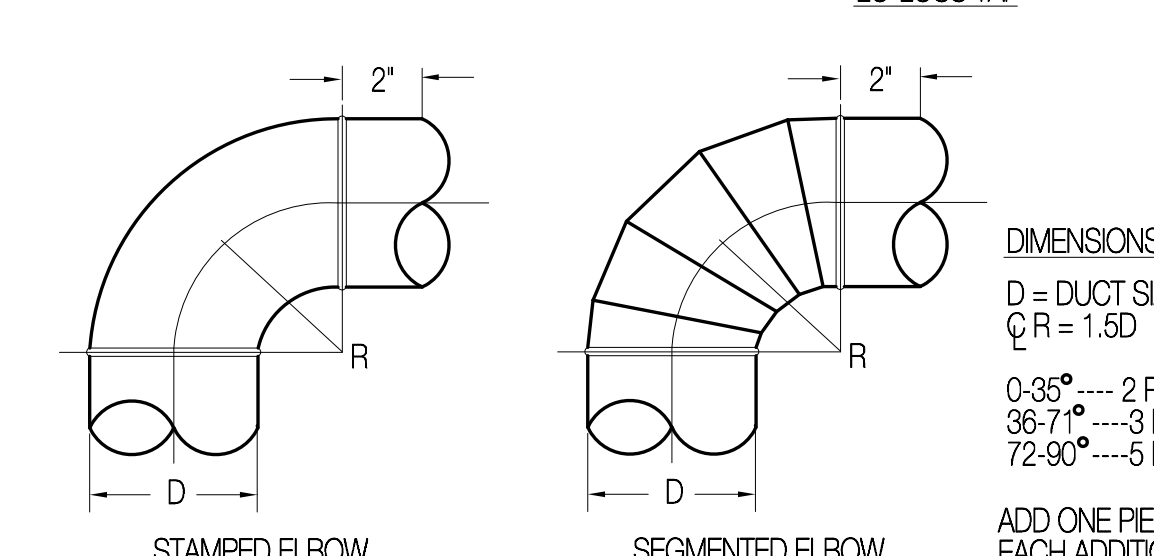
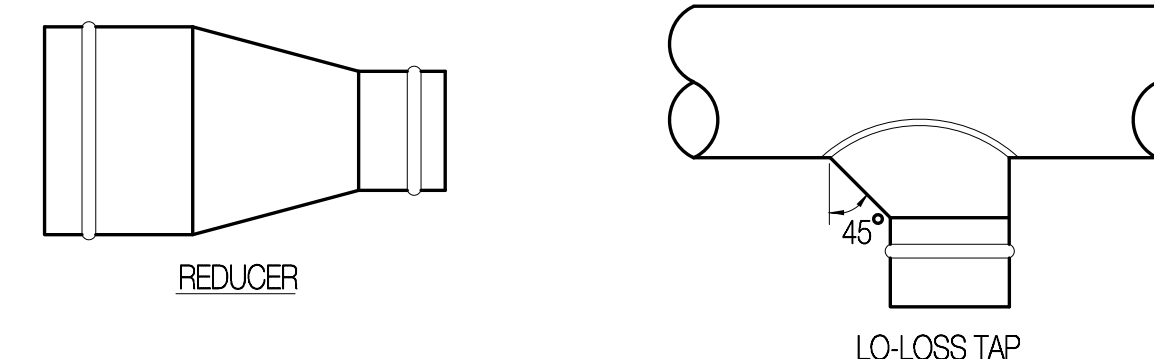
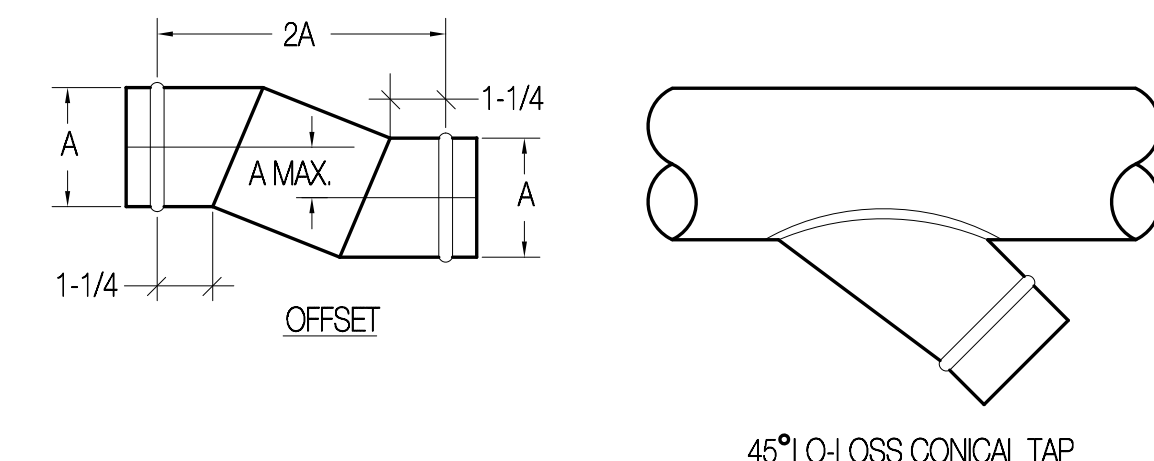
**OUTSIDE AIR SCHEDULE**

ROOM	AREA	CFM / SQ. FT.	PEOPLE / 1,000 SQ. FT.	# PEOPLE	CFM / PEOPLE	CFM	SERVED BY
EXISTING COMMONS	735	0.12	-	-	-	90	RTU-1
PROPOSED CLASSROOM 230	371	0.06	25	10	5	75	
PROPOSED CLASSROOM 231	535	0.06	25	13	5	110	
PROPOSED CLASSROOM 232	535	0.06	25	13	5	110	
						385	TOTAL

CALCULATIONS BASED ON TABLE 6-1 ASHRAE STANDARD 62.1-2010 AND 2018 INTERNATIONAL MECHANICAL CODE

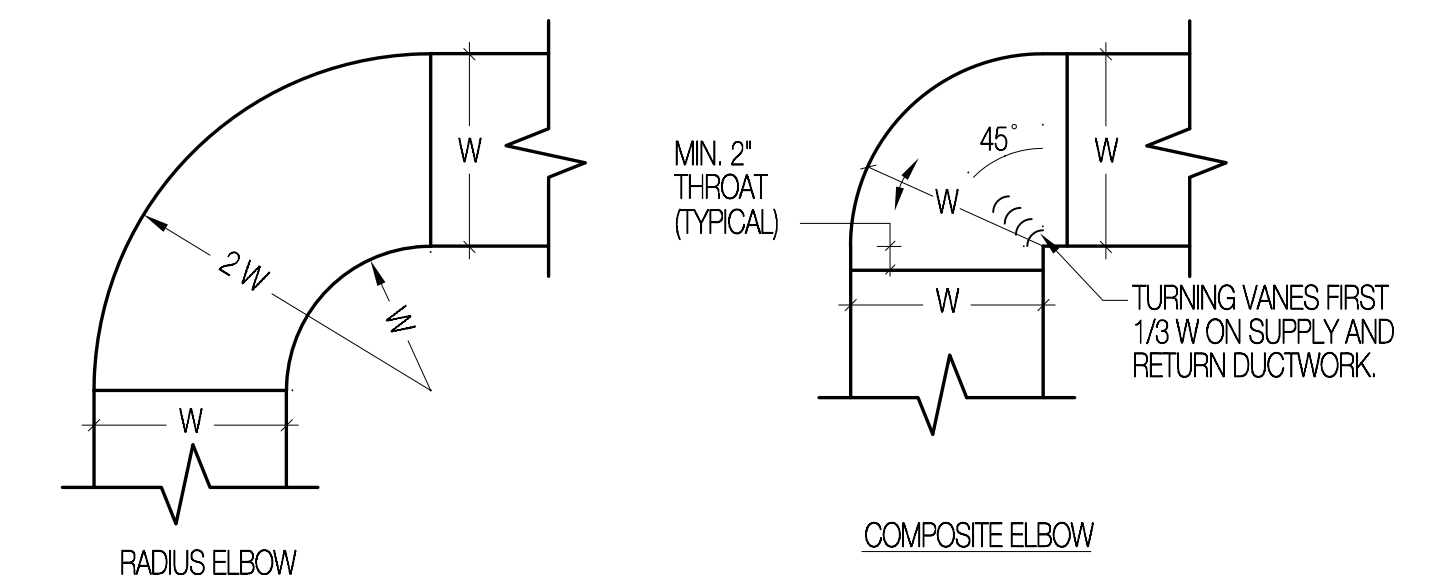
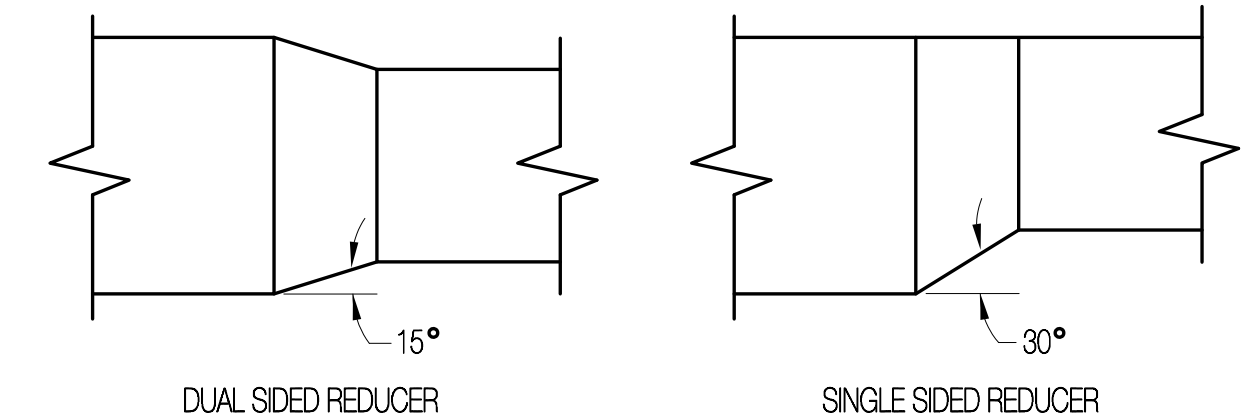
**GENERAL NOTES**

- ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL ASPECTS OF THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING PRICING. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ANY INSTALLATION SUCH THAT CLARIFICATIONS CAN BE ISSUED.
- ANY WORK PERFORMED OR MATERIAL USED WHICH IS SHOWN TO BE IN CONFLICT WITH THE CONTRACT DRAWINGS, SPECIFICATIONS OR ANY APPLICABLE CODE OR GOVERNING REGULATION SHALL BE REMOVED AND REPLACED OR CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE CONTRACT DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
- DO NOT SCALE THE DRAWINGS. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO FABRICATION OF MATERIALS OR ERECTION OF ASSEMBLIES. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETION OF THE WORK. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE DONE IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND GOVERNING REGULATIONS.
- ALL PERMITS AND FEES WHICH ARE REQUIRED FOR THIS WORK SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR.
- ALL PLUMBING AND MECHANICAL INSTALLATIONS SHALL ADHERE TO THE 2018 IECC INCLUDING: MINIMUM R-6 INSULATION ON ALL NON-ACOUSTICALLY LINED DUCTWORK; ACOUSTICAL LINER SHALL PROVIDE A MINIMUM OF R-6 INSULATING VALUE.



**2 ROUND DUCT FITTINGS**  
SCALE: NONE

DIMENSIONS  
D = DUCT SIZE  
C/R = 1.5D  
0-36° ---- 2 PIECE  
36-72° ---- 3 PIECE  
72-90° ---- 5 PIECE  
ADD ONE PIECE FOR EACH ADDITIONAL 18°



**1 RECTANGULAR DUCT FITTINGS**  
SCALE: NONE

Revisions	Date

Professional Engineer  
No. 4947211  
NORMAN CUNNING  
STATE OF UTAH

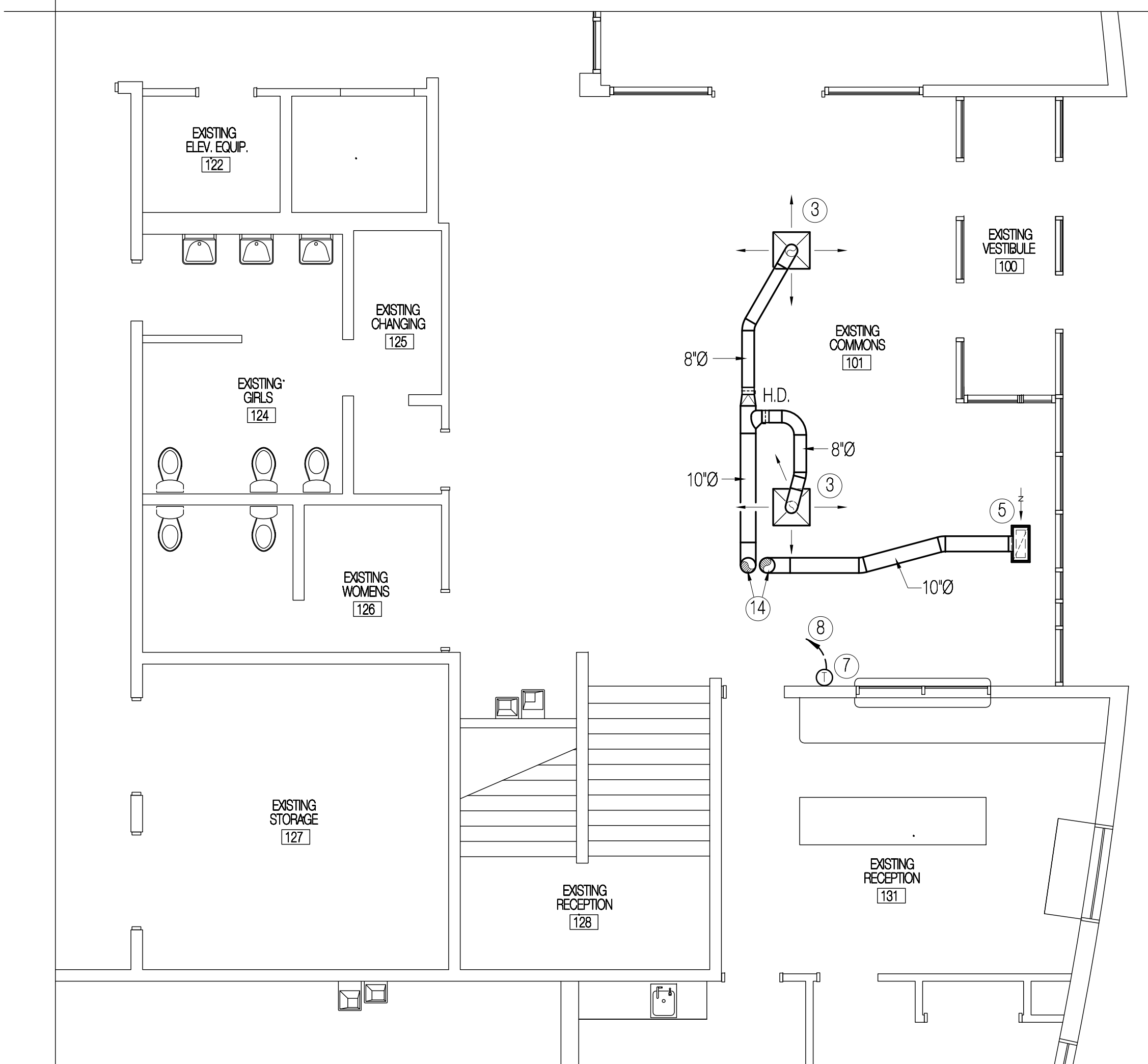
Consultant:  
Mechanical Consulting Engineers  
Cunning & Associates  
4685 W. 11600 N. Provo, UT 84637  
Email: norm@cunning-eng.com  
Ph: (801) 726-5047

Project Name  
**DAVINCI ACADEMY REMODEL**  
**215 22ND. STREET**  
**OGDEN, UT**

Project Number	Issue Date
5221	01/05/21

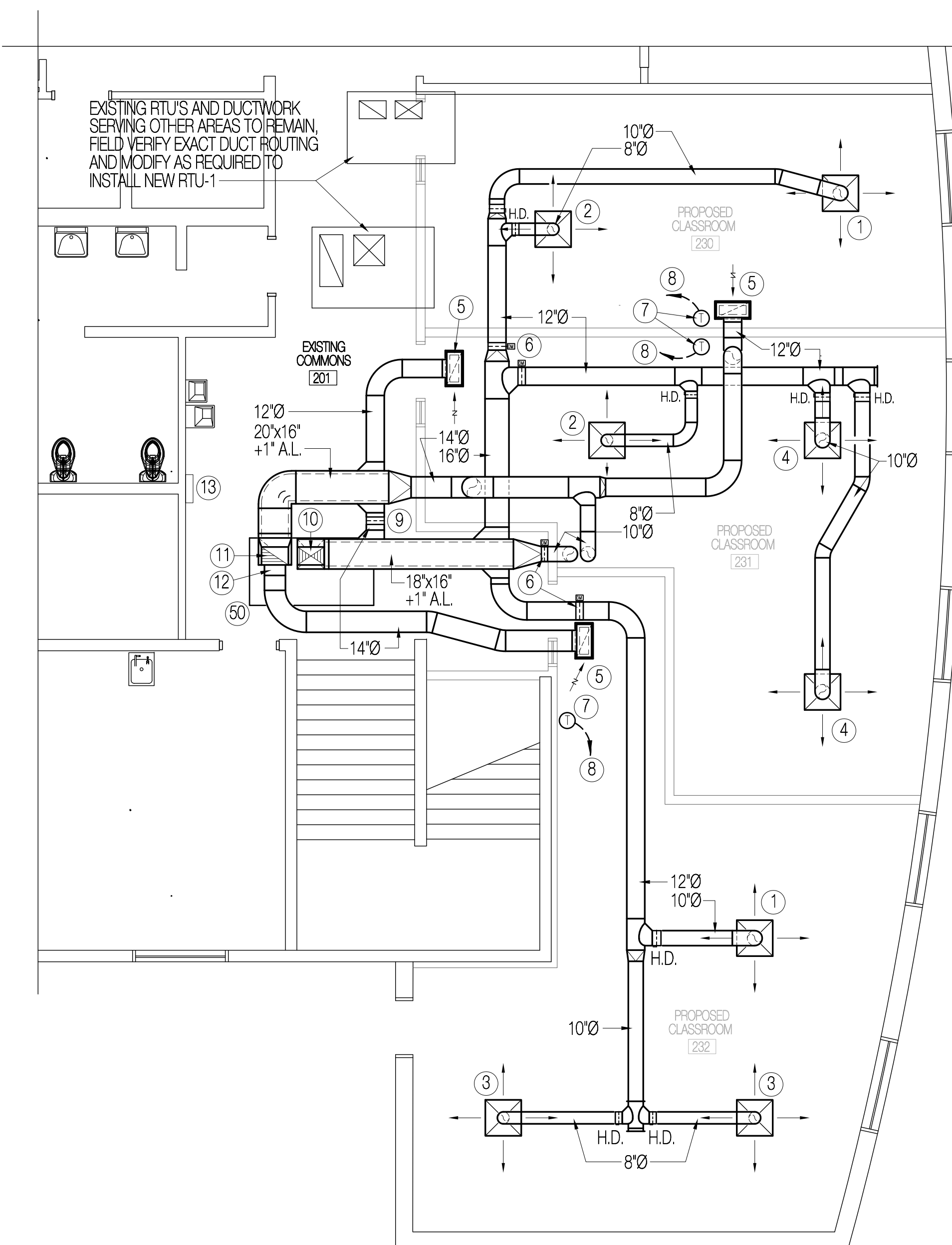
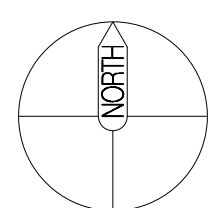
Drawing Title  
**MECH. SYMBOL LEGEND, SCHED. AND DETAILS**

Sheet Number  
**M-000**



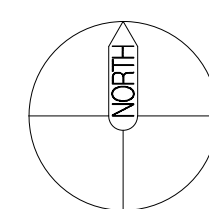
**SECOND FLOOR HVAC PLAN**

SCALE 3/16" = 1'-0"



**MAIN FLOOR HVAC PLAN**

SCALE 3/16" = 1'-0"

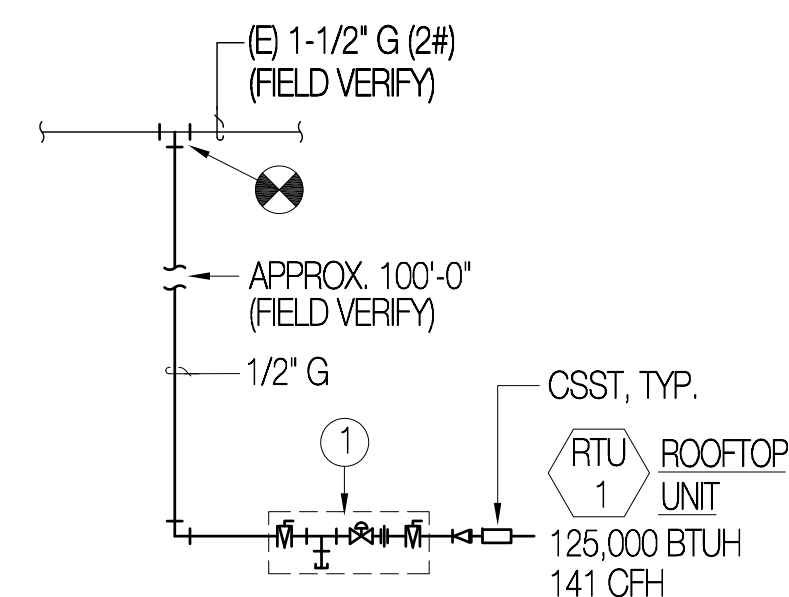


**DRAWING NOTES**

- ① S-1 250 CFM, 10"Ø NK. S.A. DIFFUSER.
- ② S-1 150 CFM, 8"Ø NK. S.A. DIFFUSER.
- ③ S-1 175 CFM, 8"Ø NK. S.A. DIFFUSER.
- ④ S-1 225 CFM, 10"Ø NK. S.A. DIFFUSER.
- ⑤ R-1 10"X22" NK. R.A. GRILLE WITH ACOUSTICALLY LINED PLENUM.
- ⑥ ZONE CONTROL DAMPER, SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- ⑦ PROVIDE AND INSTALL NEW THERMOSTAT. MOUNT THERMOSTAT AT 48" A.F.F. SEE CONTROL DIAGRAMS SHEET MP-700 FOR ADDITIONAL INFORMATION.
- ⑧ CONTROL WIRING FROM THERMOSTATS TO ZONE CONTROLLER. SEE CONTROL DRAWINGS SHEET MP-700 FOR ADDITIONAL INFORMATION.
- ⑨ BYPASS DUCTWORK WITH STATIC PRESSURE DAMPER, SEE MP-700 FOR ADDITIONAL INFORMATION.
- ⑩ 18"X16"+1" A.L. SUPPLY AIR DUCTWORK ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCTWORK TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 10/M-100.
- ⑪ 20"X16"+1" A.L. RETURN AIR DUCTWORK ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCTWORK TO INLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 10/M-100.
- ⑫ HIGH EFFICIENCY TAKEOFF, TYPICAL.
- ⑬ ROOFTOP UNIT ZONE CONTROLLER, SEE CONTROL DRAWINGS SHEET MP-700 FOR ADDITIONAL INFORMATION.
- ⑭ 10"Ø SUPPLY AND RETURN DUCTWORK RISE TO SECOND FLOOR. SEE SECOND FLOOR HVAC PLAN THIS SHEET FOR CONTINUATION.

**EQUIPMENT NOTES**

- ⑤⑩ RTU-1 ROOFTOP UNIT



**DIAGRAM NOTES**

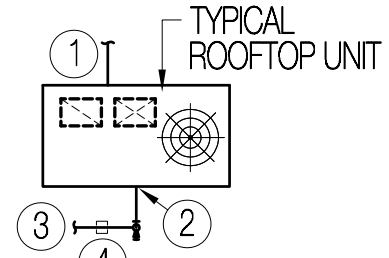
- ① PRESSURE REGULATING STATION WITH TEST PORTS AND DIRT LEG, SEE DETAIL 1/MP-700.

CONNECT EACH APPLIANCE WITH 6" DIRT LEG, PRESSURE REGULATOR, AND CORRUGATED STAINLESS STEEL TUBE (CSST) FLEXIBLE CONNECTION.

**GAS FLOW DIAGRAM**

SCALE: NONE

DESIGN NOTES  
 SERVICE PRESSURE = 2 LB.  
 NEW CFH = 141 CFH  
 DEVELOPED LENGTH = 260 FT.  
 CFH = BTUH/890



**GENERAL NOTES**

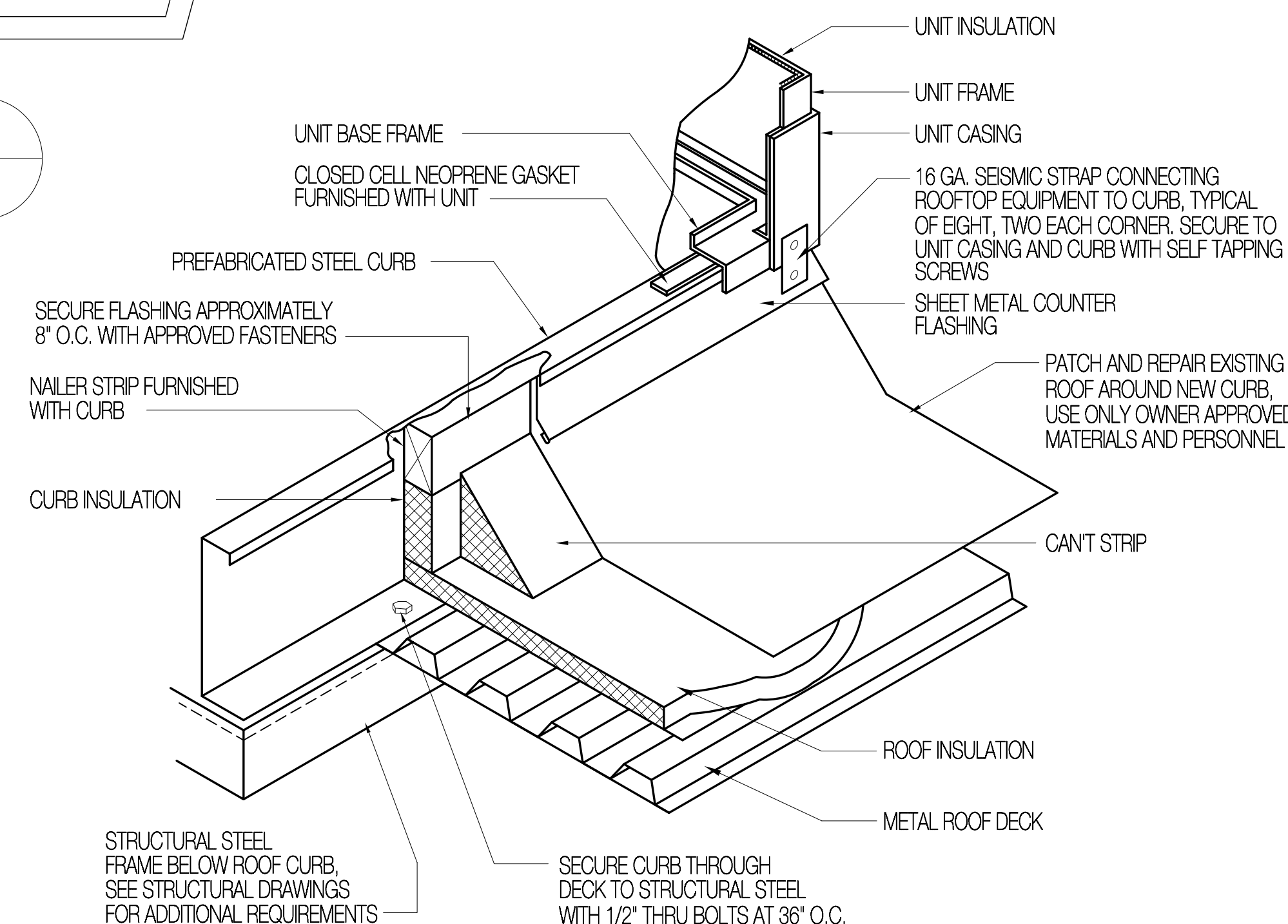
UTILITY CONNECTION LOCATIONS ARE APPROXIMATE AND ARE BASED ON SCHEDULED EQUIPMENT. PLUMBING AND HVAC CONTRACTORS SHALL FIELD VERIFY FINAL UTILITY CONNECTION LOCATIONS PRIOR TO FABRICATION OF GAS PIPING.

**TYPICAL HVAC / PLUMBING ROOF PLAN**

SCALE: NTS

**DRAWING NOTES**

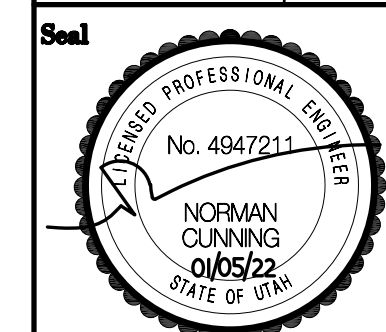
- ① LINE SIZE PVC CONDENSATE DRAIN PIPING, EXTEND TO ROOF SURFACE PER DETAIL 2/M-000.
- ② GAS PIPING CONNECTION TO APPLIANCE, SEE GAS FLOW DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION. CONNECT EACH APPLIANCE TO BRANCH WITH 6" DIRT LEG, GAS PRESSURE REGULATOR AND CORRUGATED STAINLESS STEEL TUBE FLEXIBLE CONNECTION.
- ③ 1/2" 2# GAS PIPING TO 1-1/2" MAIN APPROXIMATELY 100'-0" AWAY. FIELD VERIFY EXACT MAIN LOCATION AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
- ④ MIRO MODEL 3-R-2 GAS PIPING SUPPORT, TYPICAL ONE SUPPORT EVERY 7'-0" ON CENTER.



**ROOFTOP EQUIPMENT FLASHING DETAIL**

SCALE: NONE

Revisions	Date



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Project Name  
**DAVINCI ACADEMY REMODEL**  
**215 22ND. STREET**  
**OGDEN, UT**

Project Number  
**5221**

Issue Date  
**01/05/21**

Drawing Title  
**MECH. FLOOR PLANS / ROOF PLAN & DIAG.**

Sheet Number

**MP 100**

MECHANICAL SPECIFICATIONS

GENERAL CONDITIONS

DESCRIPTION OF PROJECT: The mechanical work described in these mechanical specifications is for a project located in Ogden, Utah. Design weather conditions are: 95° db, 65° wb, and winter 8°F. Altitude readings, unless otherwise noted, are for an elevation of 4,450 feet above sea level. Make adjustment to manufacturer's performance data as needed.

CODES AND PERMITS, AUTHORITIES HAVING JURISDICTION: 2018 International Mechanical Code - (with Utah amendments) 2018 International Building Code - (with Utah amendments) 2018 International Plumbing Code - (with Utah amendments) 2018 International Energy Conservation Code - (with Utah amendments) SMACNA Duct Design Standards Locally enforced NFPA Codes Local Fuel Utility Regulations Local Power Utility Regulations American Gas Association ASTM B31.1 Piping

DEFINITION OF PLANS AND SPECIFICATIONS: The mechanical drawings at reduced scale show the general arrangement of piping, ductwork, equipment, etc., and shall be followed as closely as the actual building construction and the work of other trades will permit. The architectural and structural drawings shall be considered as part of the work insofar as these drawings furnish the Contractor with information relating to design and construction of the building. Architectural drawings shall take precedence over mechanical drawings. Request clarification and participate in resolution in the event of conflict.

- A. Because of the small scale of the mechanical drawings, it is not possible to indicate all offsets, fittings and accessories which may be required. Investigate the structural and finish conditions affecting the work and arrange the work accordingly, providing such extensions, fittings, valves and accessories to meet the conditions as may be required. Some small scale work is not shown such as control conduit and piping, incidental piping, specialties. Provide as directed by note or specification.
B. Examine the actual construction site prior to bidding and obtain an understanding of the conditions under which the work will be performed. No allowances will be made for failure to make such examination.
C. During construction, verify the dimensions governing the mechanical work at the building. No extra compensation shall be claimed or allowed because of differences between actual dimensions and those indicated on the drawings. Examine adjoining work on which mechanical work is dependent for perfect efficiency, and report any work of other trades which must be corrected. No waiver of responsibility for defective work shall be claimed nor allowed due to failure to report unfavorable conditions affecting the mechanical work.

ALTERNATIVE CONSTRUCTION/SUBSTITUTION: The contract documents outline a way in which the Owner may be delivered a functional and reliable facility. Drawings and specifications describe reasonable engineering practice for the Contractor to follow.

- A. Coordination between trades may result in periodic needs to adjust the installation from that indicated, but in no case shall the intended function be compromised.
B. The Contractor may perceive some work methods which differ from those specified which could save time and effort. These may be presented to the Architect with a breakdown of possible cost savings for review. Implement only with authorization.
C. Materials substitutions will generally be covered in a review process prior to bidding. After bidding, substitutions shall be proposed only on the basis of definitive cost accounting and implemented only with authorization.

QUALITY OF MATERIALS AND EQUIPMENT:

- A. All equipment and materials shall be new, and shall be the standard products of manufacturers regularly engaged in the production of plumbing, heating, ventilating and air conditioning

- C. Fabricate ductwork with duct liner in each section of duct where indicated. Laminate liner to internal surfaces of duct in accordance with instructions by manufacturers of lining and adhesive, and fasten with weld type fasteners.
D. Offset, transition, adapt ductwork to structural obstacles and work of other trades in a coordinated effort. Layout work to avoid conflict with piping, etc. With review of conditions, teardrop around conflicting piping, lights, etc., all at no added cost to the owner.

LOW PRESSURE ROUND DUCTWORK:

- A. Round type ductwork for use on low velocity supply systems (1200 fpm maximum), low pressure (0.75" maximum duct pressure), shall be fabricated on 26 gauge galvanized steel sheets with snap-lock longitudinal seams and crimped and beaded joints.
B. All end joints shall have at least three screw fasteners and joints shall be sealed airtight with Hardcoat TA tape or water based duct sealer. Snap lock longitudinal seams shall be seal with water based duct sealer. NO EXCEPTIONS. Elbows and fittings shall provide smooth air flow patterns and have a neat appearance.

MEDIUM PRESSURE DUCTWORK: (3" SMACNA Pressure Class)

- A. General: At installer's option, provide factory-fabricated duct and fittings, in lieu of shop-fabricated duct and fittings.
B. Round Ductwork: Construct of galvanized sheet steel complying with ASTM A 527 by the following methods and in minimum gauges listed.

Table with 3 columns: Diameter, Minimum Gauge, Method of Manufacture. Rows for 3" to 14" and 15" to 26" diameters.

Provide locked seams for spiral duct; fusion-welded butt seam for longitudinal seam duct.

- C. Round Duct Fittings and Couplings: Construct of minimum gauges listed. Provide continuous welds along seams. Mitered elbows shall be of at least 5 piece construction with R/D ratio of 1.5.

Table with 2 columns: Diameter, Minimum Gauge. Row for 3" to 36" diameter.

LOW PRESSURE RECTANGULAR DUCTWORK:

- A. Rectangular ductwork for use on supply systems up to 2" maximum duct static pressure and 2000 fpm maximum duct velocity shall be constructed of galvanized steel using construction for nominal 3" SMACNA rated systems. Seal all transverse and longitudinal joints with water based duct sealer. NO EXCEPTIONS.
B. Use radiused elbows, or square inside radiused outside elbows with single thickness turning vanes in the first 1/3 where space restrictions prohibit fully radiused elbows. Use 45° high efficiency tapping takeoffs with separate downstream balance dampers.
C. Duct dimensions are inside clear. Increase for acoustical lining.

MISCELLANEOUS DUCTWORK MATERIALS:

- A. General: Provide miscellaneous materials and products of types and sizes indicated and, where not otherwise indicated, provide type and size required to comply with ductwork system requirements including proper connection of ductwork and equipment.
B. Runout Fittings: Runout fittings shall be used to make round to rectangular duct connections. Use 45° time and a half square to round fittings. Provide with locking quadrant dampers where balance is involved. Provide with insulation guard where insulated duct is involved.
C. Duct Sealing Compound: Duct sealing compound shall be 3M brand number EC-750 or Duro-Dyne S-2. This material shall be used in making up duct joints or in water

equipment, and shall be the manufacturer's latest design. Specific equipment shown in schedules on drawings and specified herein is to be the basis for the Contractor's bid. Provisions for substitute equipment are outlined in the General Conditions. All materials shall be produced by manufacturing plants located in the United States of America.
B. Furnish and install all major items of equipment specified in the equipment schedules on the drawings complete with all accessories normally supplied with catalog items listed, and all other accessories necessary for a complete and satisfactory installation.

MANUFACTURER'S DIRECTIONS: Install all equipment in strict accordance with directions and recommendations furnished by the manufacturer. Where such directions are in conflict with the plans and specifications, report such conflicts to the Architect who shall direct adjustments as deemed necessary and desirable.

EQUIPMENT: Per manufacturer and model numbers indicated on mechanical schedules.

NATURAL GAS PIPING:

- A. Building Distribution Piping: 1. Pipe Size 2" and Smaller: Black steel pipe; Schedule 40; malleable-iron threaded fittings (exposed), welded fittings and joints (concealed).
B. Gas Cocks: 1. Gas Cocks 2" and Smaller: 150 psi non-shock WOG, bronze straightway cock, flat or square head, threaded ends.
2. Manufacturer: Subject to compliance with requirements, provide gas cocks of one of the following:
a. DeZurik Corp.
b. Jenkins Bros.
c. Lukenheimer Co.
d. NIBCO, Inc.
e. Powell (The Wm.) Co.
f. Rockwell International; Flow Control Div.
g. Stockham Valves and Fittings.
h. Walworth Co.
C. Pressure Regulating Valves: 1. General: Provide single stage, steel jacketed, corrosion-resistant gas pressure regulators, with atmospheric vent, elevation compensator; with threaded ends for 2" and smaller, flanged ends for 2-1/2" and larger, for inlet and outlet gas pressures, specific gravity, and volume flow indicated.

DUCTWORK - GENERAL:

- A. Standards: All duct fabrications shall comply with standards and techniques detailed by SMACNA "Duct Construction Manual" for the appropriate pressure class, with the ASHRAE Handbook, 1988 edition, Chapter 1, Duct Construction, and with the contract drawing details.
B. Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized sheet steel complying with ASTM A 527, lockforming quality, with G 90 zinc coating in accordance with ASTM A 525; mill phosphatized for exposed locations.

FITTINGS AND FABRICATION:

- A. Fittings: Fabricate duct fittings to match adjoining ducts, and to comply with duct requirements as applicable to fittings. Fabricate elbows utilizing inside and outside radiuses with a center-line radius equal to associated duct width; or where fully radiused elbows are not possible, fabricate elbows with an inside square and outside radius and include turning vanes in the first 1/3 of elbow. Maintain duct width throughout turn on inside square and outside radiused elbows. Limit angular tapers to 30° for contracting tapers and 20° for expanding tapers.
B. Fabricate ductwork with accessories installed during fabrication to the greatest extent possible. Refer to Division-15 section "Duct Accessories" for accessory requirements.

- D. Acoustical Lining: Acoustical lining in ducts shall be 1" thick, 1-1/2 pound density, coated, flexible glass fiber type, set in adhesive and impaled on weld studs spaced not more than 12" on centers and secured with lock washers. Airstream surface faced with black coated mat. Acoustical lining shall completely line the ducts. Lining shall have a fire and smoke hazard rating not exceeding 20-50-50. Owens-Corning, Johns-Manville, Certainteed.
E. Duct Liner Adhesive: Comply with ASTM C 916 "Specifications for Adhesives and Duct Thermal Insulation".
F. Duct Liner Fasteners: Comply with SMACNA HVAC Duct Construction Standards, Article S2.11.
G. Ductwork Support Materials: Except as otherwise indicated, provide hot-dipped galvanized steel fasteners, anchors, rods, straps, trim and angles for support of ductwork.

GRILLES AND DIFFUSERS:

- 1. Ceiling Supply Diffuser (S-1): Kraeger series 1400A with adjustable tabs for directional air flow control, square face, round neck, four-way deflection, anti-smudge design, removable inner core, all steel construction, appropriate mounting frame, white baked enamel finish, sponge rubber gasket, size as indicated on drawings.
2. Perforated Return Register / square neck (R-1): Kraeger series 6490. Concealed hinge frame, sponge rubber gasket, white baked-on enamel, filter holding frame, color as selected by architect, size as indicated on drawing.

MECHANICAL CONTROLS:

CONDUCTORS:

- A. Color coded and No. 16 and No. 12 AWG Type TWN, TFN, or THHN, stranded.
B. Thermostat Cable - 12 conductor or 8 conductor, 18AWG solid copper wire, insulated with high density polyethylene. Conductors parallel enclosed in brown PVC jacket (No 22 AWG cable allowed).

AUXILIARY RELAYS:

- A. Light Duty - as required.
B. Heavy Duty - Square D, Class 8501, Type X.

THERMOSTAT: (Typical of all Rooftop Units utilizing zone controllers - RTU-1)

- A. Programmable low voltage type provided with automatic change over feature for both heating and cooling stages, seven day program with two starts and stops per day, and provisions for damper operators. Thermostat and subbase compatible with heat pump operation.
B. Battery - Mallory AA 1.5 volt alkaline type or equal as approved by Engineer.
C. Approved Manufacturer & Model - 1. Honeywell TH8320.

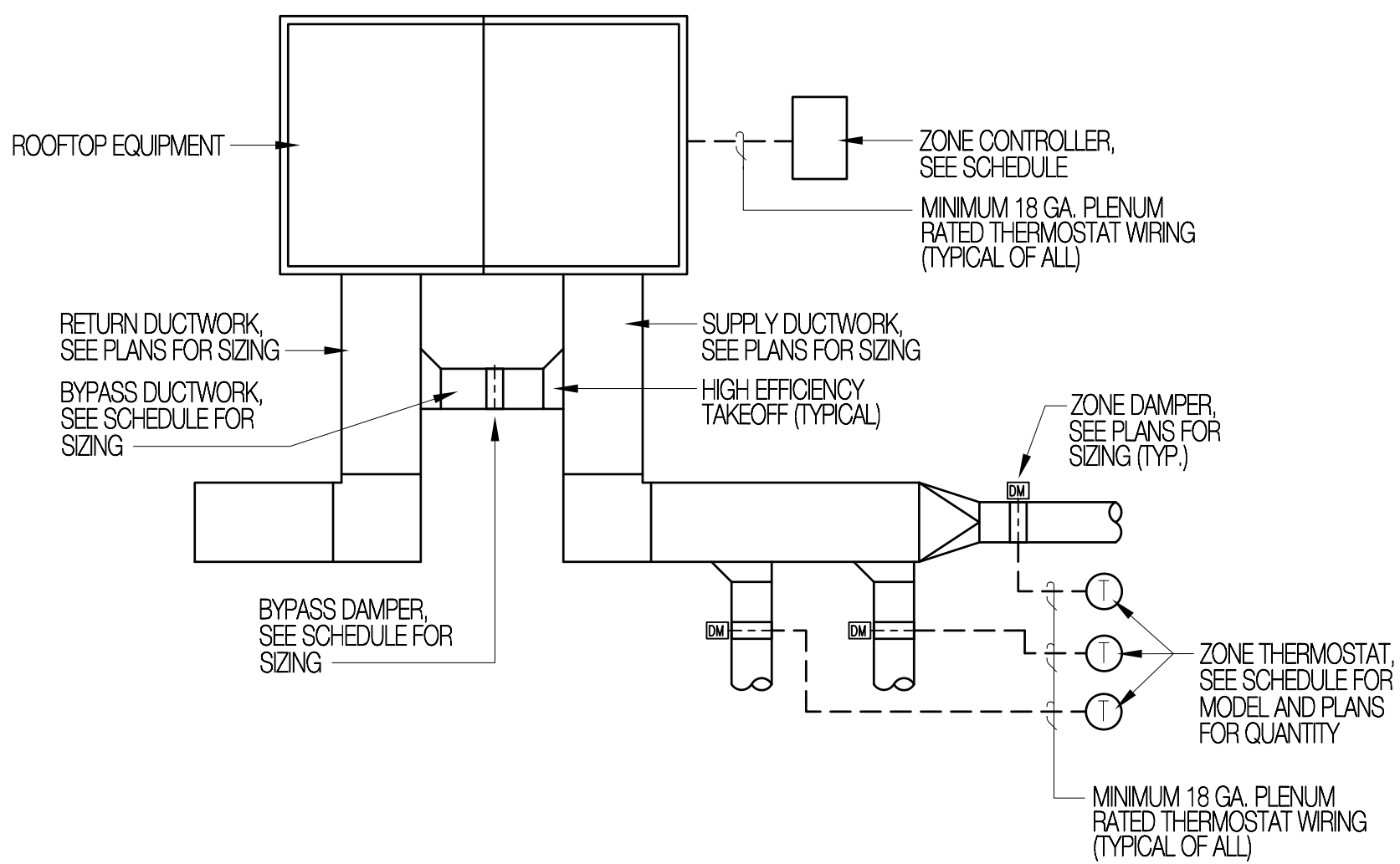
ZONE CONTROLLER

- A. Microprocessor controller with LED indicator display, 4 stage heat / 3 stage cooling capacity, smoke detector input terminals, LCD display, 365 day per year clock.
B. Approved Manufacturer - 1. Zonefirst.
a. MZP4, field verify number of zones provide expansion as required.

DAMPER ACTUATORS

- A. Electric type equipped for Class I wiring.
B. Shall not consume power during UNOCCUPIED cycle or use chemicals or expandable media.
C. Have built in spring return.
D. Approved Manufacturer & Model -

ZONE CONTROLLER SCHEDULE table with columns: ZONE, EQUIP. SERVED, NO. OF ZONES, BYPASS DAMPER SIZE, BYPASS DAMPER MFG. / MOD., BYPASS DAMPER PRESS. SETTING, BYPASS CFM, ZONE DAMPER MANUF. / MODEL, ZONE THERMOSTAT MANUF. / MODEL, ZONEFIRST CONTROLLER MODEL, REMARKS. Row 1: Z-1, RTU-1, 4, 14"Ø, ZONEFIRST / SPAD, 0.30" - 0.60", 1,800, ZONEFIRST / RDP, VENSTAR / T2900, MZP4, WITH SPS PROBE - SET AT 0.3" PRESSURE

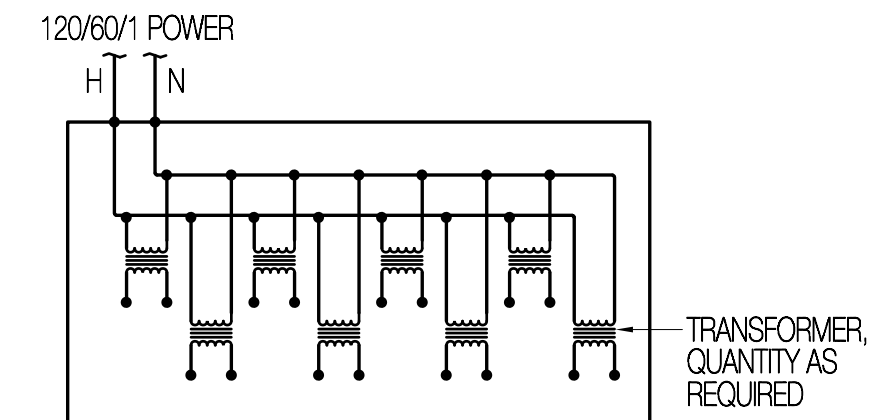


ZONE CONTROLLER SCHEMATIC

TYPICAL OF RTU-1

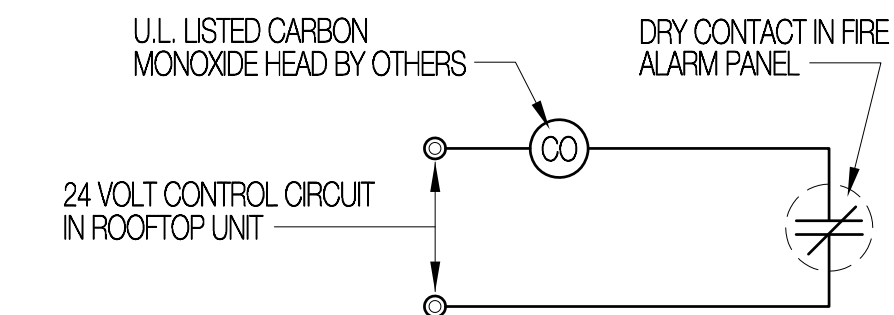
GENERAL NOTES

- 1. 120 VAC ELECTRICAL POWER TO ZONE CONTROLLERS AND LOW VOLTAGE TRANSFORMER PANELS BY DIVISION 16000, DIVISION 15000 TO COORDINATE LOCATION AND QUANTITY.
2. THE CONTROLS CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONTROL SYSTEM CIRCUITS.
3. ANY QUESTION OF RESPONSIBILITY SHALL BE CLARIFIED BY THE GENERAL CONTRACTOR.
4. ALL WIRING SHALL BE 18 GA. MULTI CONDUCTOR WITH PLENUM RATED JACKET AND SHALL TERMINATE AT LABELED TERMINAL STRIPS.



LOW VOLTAGE TRANSFORMER PANEL LVTP

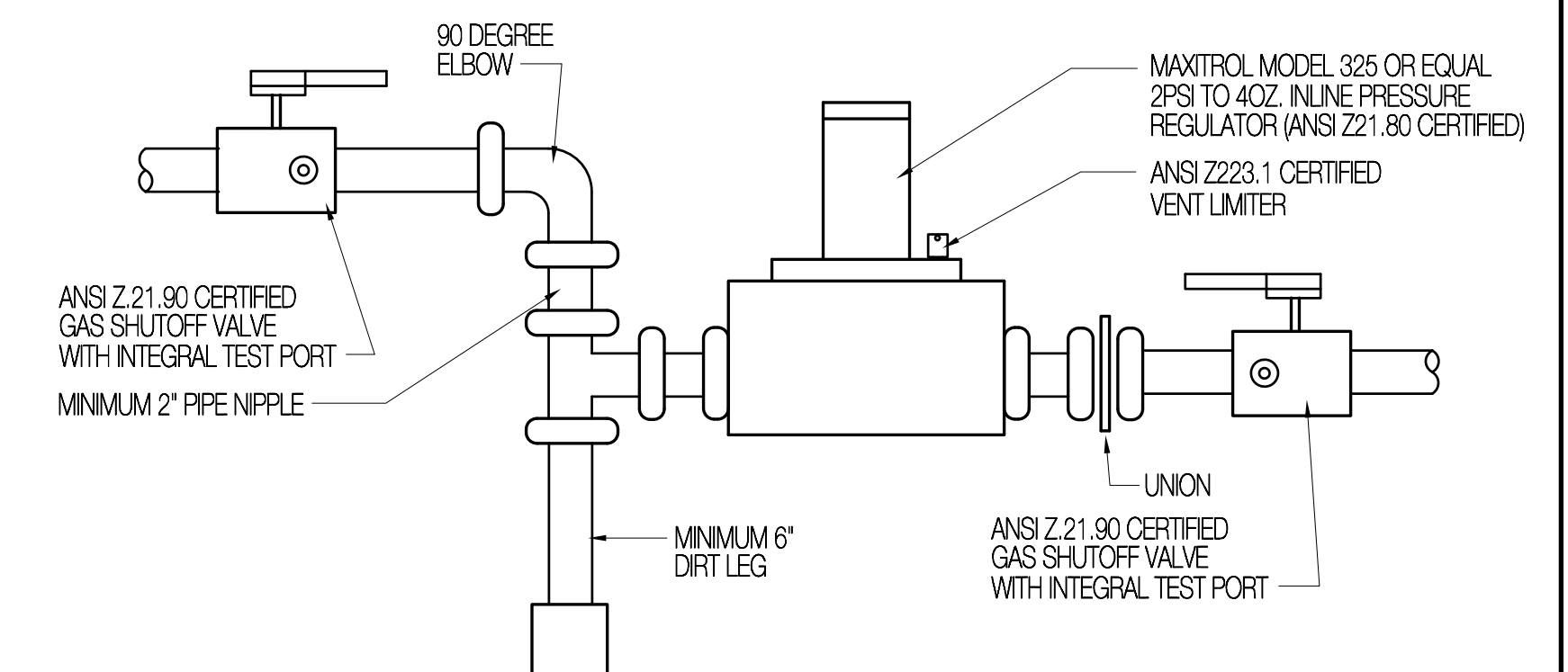
QUANTITY AS REQUIRED, LOCATION AS DIRECTED



CONTROL SEQUENCE: ROOFTOP UNIT SHALL SHUTDOWN UPON DETECTION OF CARBON MONOXIDE IN THE ZONE.

SAFETY CIRCUIT CO DETECTION

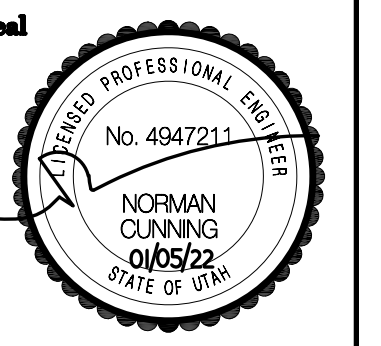
TYPICAL OF RTU-1



GAS PRESSURE REGULATOR DETAIL

SCALE: NONE

Revisions table with columns: Revisions, Date.



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Project Name: DAVINCI ACADEMY REMODEL 215 22ND. STREET OGDEN, UT

Project Number: 5221, Date: 01/05/21

Drawing Title: MECH. / PLUMB. CONTROLS & SPECS / DET.

Sheet Number

MP 700