

TENANT IMPROVEMENT:

DAVINCI ACADEMY SUITES D, E, & F

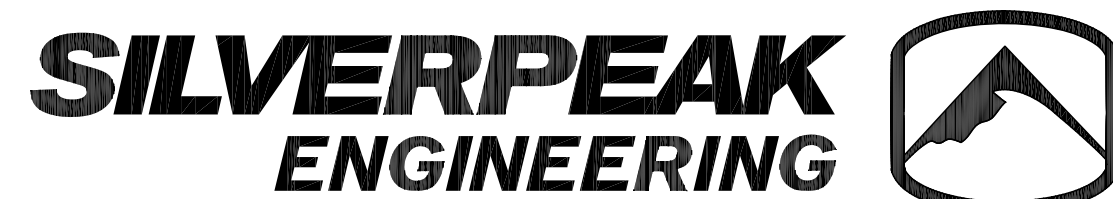
LOCATION:

850 WEST 350 NORTH
KAYSVILLE, UT 84037

REVISIONS:
DATE: 1/14/2020
PROJECT: 16-15307
DRAWN BY: WM
CHECKED BY:

DAVINCI ACADEMY - SUITES D, E, & F, 850 WEST 350 SOUTH KAYSVILLE, UTAH 84037

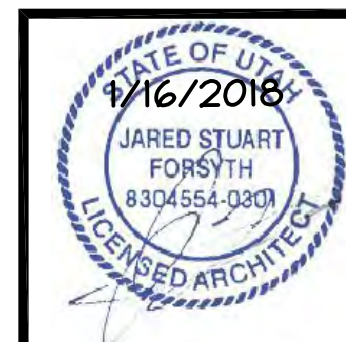
ARCHITECT - STRUCTURAL



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



STRUCTURAL
ENGINEER



ARCHITECT

SUITE A: 2018 IBC CODE ANALYSIS

ENTIRE TENANT FINISH	
OCCUPANCY GROUP (SUITES B, D, E, & F)	E
CONSTRUCTION TYPE	III - B
FIRE SPRINKLERS PROVIDED?	YES
TOTAL NUMBER OF STORIES	2
TENANT IMPROVEMENT AREA - SUITES D, E, & F	
SUITES D, E, & F OCCUPANT LOADS (TABLE 1004.1.2)	
SUITE D, E, & F FLOOR AREA	
CLASSROOMS-MAIN (20 NET)	1028 / 20 =52
CLASSROOMS - UPPER (20 NET)	1153 / 20 =58
FUTURE CLASSROOMS - UPPER (20 NET)	316 / 20 =16
MULTIPURPOSE ROOM-MAIN (PER EXCEPTION 1004.5)	80
OFFICE - MAIN (150 GROSS)	220 / 150 =2
STORAGE - MAIN (300 GROSS)	146 / 300 =1
STORAGE - UPPER (300 GROSS)	123 / 300 =1
MAIN LEVEL OCCUPANT LOAD	135
UPPER LEVEL OCCUPANT LOAD	75
TOTAL OCCUPANT LOAD BASED ON SQ. FT.	210
STUDENTS ALLOWED	100
TOTAL STALL	10
TOTAL OCCUPANT LOAD BASED ON EXCEPTION 1004.1.2	110
EXITS REQUIRED	2
EXITS PROVIDED	6
MAX ALLOWABLE TRAVEL DISTANCE (1017.2)	250'
ACTUAL MAX. TRAVEL DISTANCE	225'
WATER CLOSETS REQUIRED	110 / 50 = 3
WATER CLOSETS PROVIDED	3
LAVATORIES REQUIRED	110 / 50 =3
LAVATORIES PROVIDED	3
DRINKING FOUNTAINS REQUIRED	110 / 100 = 2
DRINKING FOUNTAINS PROVIDED	2

INDEX TO DRAWINGS

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A132	SUITES D, E, & F UPPER REFLECTED CEILING PLAN
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A142	SUITES D, E, & F UPPER FLOOR EXIT PLAN
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E001	ELECTRICAL SYMBOLS AND NOTES
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E201	MAIN LEVEL POWER PLAN
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E302	UPPER LEVEL LIGHTING PLAN
E401	ONE-LINE DIAGRAM
E501	ELECTRICAL SCHEDULES
E601	ELECTRICAL DETAILS
P000	PLUMBING SCHEDULES AND SYMBOL LEGEND
P100	FIRST FLOOR PLUMBING PLAN
P101	SECOND FLOOR PLUMBING PLAN
M000	MECHANICAL SCHEDULES AND SYMBOL LEGEND
M100	FIRST FLOOR HVAC PLAN
M101	SECOND FLOOR HVAC PLAN
M700	MECHANICAL CONTROLS
MS100	MECHANICAL/PLUMBING SPECIFICATIONS

OWNER

JEREMY HERRON
926 NORTH 1875 WEST
FARMINGTON, UT 84025
PHONE: (801) 755-5003

ELECTRICAL

PVE ENGINEERING
1040 NO. 2200 WEST
SALT LAKE CITY, UT 84116
PHONE: (801) 359-3158

MECHANICAL

NORM CUNNING
4685 W. 11600 N.
TREMONTON, UT 84337
PHONE: (801) 726-5047

DEFERRED SUBMITTALS

1. FIRE SPRINKLER AND FIRE ALARM DRAWINGS WILL BE PROVIDED PRIOR TO INSTALLATION. FIRE SPRINKLER AND FIRE ALARM PLANS SHALL BE GIVEN TO KAYSVILLE CITY.
2. NFRG CERTIFICATE SHALL BE SUBMITTED AS PART OF THEIR CERTIFICATE OF OCCUPANCY REQUIREMENT.

CURRENT CODE EDITIONS

2018 IBC	2018 IMC
2018 IFC	NEC 2011
2018 IECC	2003 UPC
2018 IPC	ICC/ANSI A117.1-2009
2018 IFGC	



HORIZON MASONRY
APPROX. 850 W 350 N
KAYSVILLE, UTAH

DATE: 08-08-2017
PROJECT: 16-153
DRAWN BY: C.D.



SITE PLAN

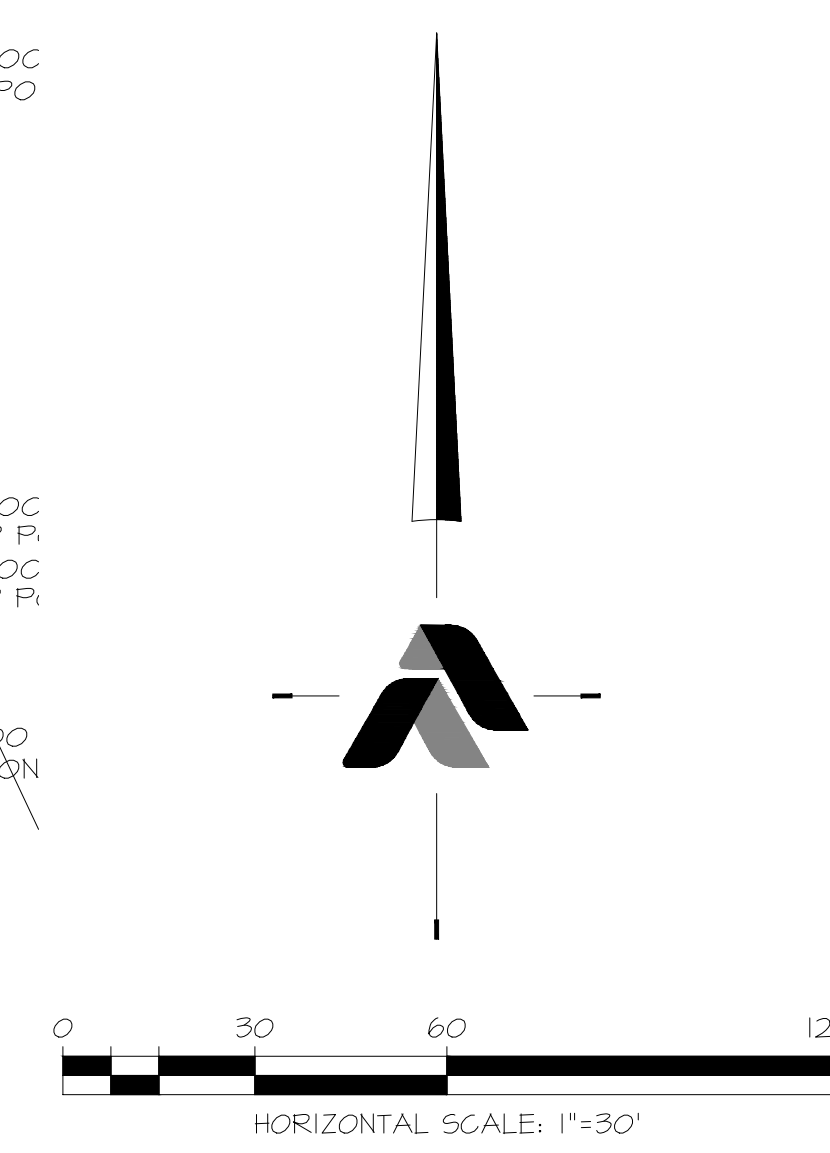
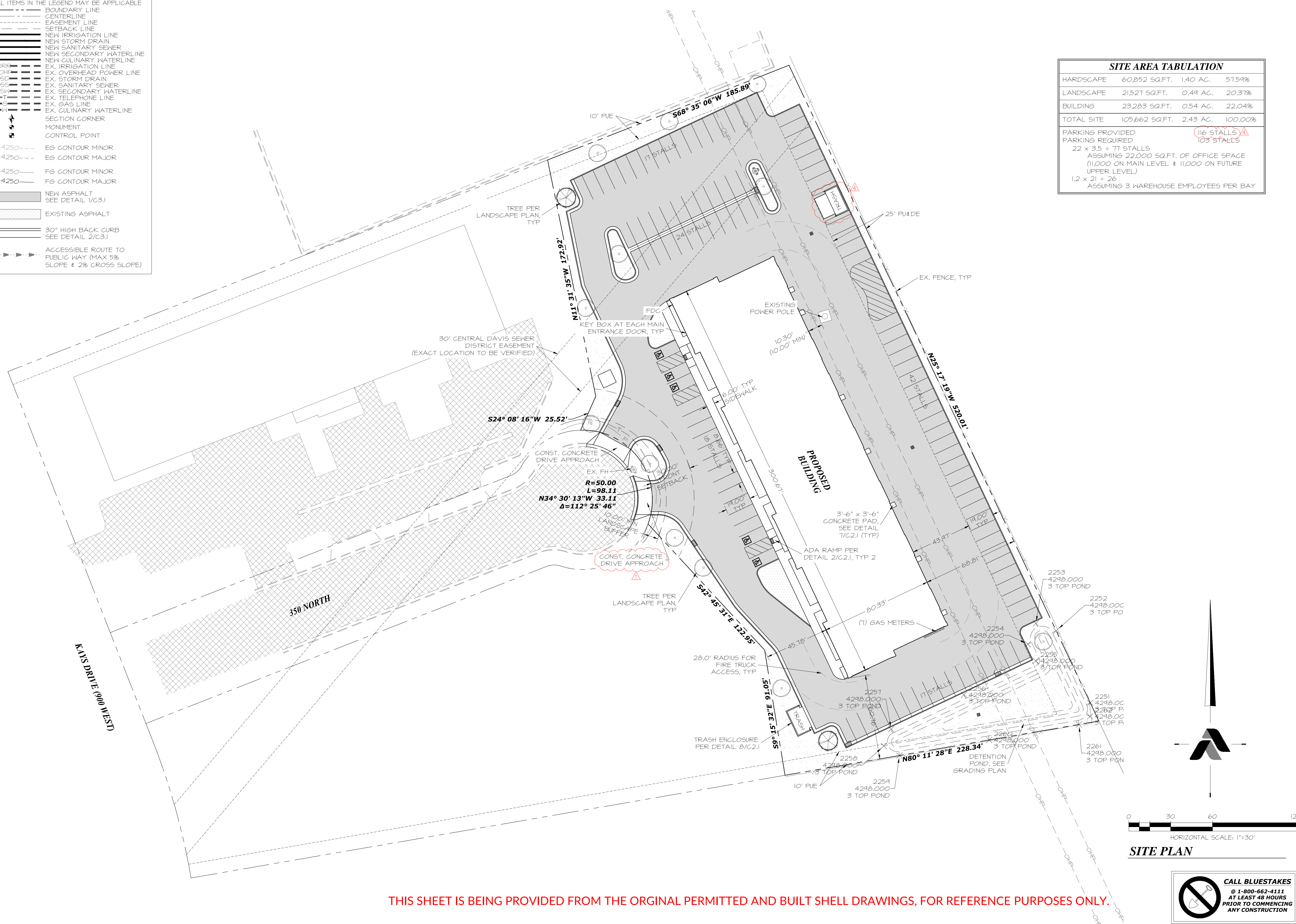
SHEET NUMBER:

C2.0

LEGEND

- NOT ALL ITEMS IN THE LEGEND MAY BE APPLICABLE
- BOUNDARY LINE
 - CENTERLINE
 - EASEMENT LINE
 - SETBACK LINE
 - NEW IRRIGATION LINE
 - NEW STORM DRAIN
 - NEW SANITARY SEWER
 - NEW SECONDARY WATERLINE
 - NEW CULINARY WATERLINE
 - EX. IRRIGATION LINE
 - EX. OVERHEAD POWER LINE
 - EX. STORM DRAIN
 - EX. SANITARY SEWER
 - EX. SECONDARY WATERLINE
 - EX. TELEPHONE LINE
 - EX. GAS LINE
 - EX. CULINARY WATERLINE
 - SECTION CORNER
 - MONUMENT
 - CONTROL POINT
 - 4250--- EG CONTOUR MINOR
 - 4250--- EG CONTOUR MAJOR
 - 4250--- FG CONTOUR MINOR
 - 4250--- FG CONTOUR MAJOR
 - NEW ASPHALT
SEE DETAIL 1/C3.1
 - EXISTING ASPHALT
 - 30" HIGH BACK CURB
SEE DETAIL 2/C3.1
 - ACCESSIBLE ROUTE TO PUBLIC WAY (MAX 5% SLOPE & 2% CROSS SLOPE)

SITE AREA TABULATION			
HARDSCAPE	60,852 SQ.FT.	1.40 AC.	51.54%
LANDSCAPE	21,527 SQ.FT.	0.49 AC.	20.37%
BUILDING	23,283 SQ.FT.	0.54 AC.	22.04%
TOTAL SITE	105,662 SQ.FT.	2.43 AC.	100.00%
PARKING PROVIDED			
PARKING REQUIRED		116 STALLS	
22 x 3.5 = 77 STALLS		103 STALLS	
ASSUMING 22,000 SQ.FT. OF OFFICE SPACE (11,000 ON MAIN LEVEL & 11,000 ON FUTURE UPPER LEVEL)			
1.2 x 21 = 26			
ASSUMING 3 WAREHOUSE EMPLOYEES PER BAY			



SITE PLAN

CALL BLUESTAKES
@ 1-800-662-4111
AT LEAST 48 HOURS
PRIOR TO COMMENCING
ANY CONSTRUCTION

THIS SHEET IS BEING PROVIDED FROM THE ORIGINAL PERMITTED AND BUILT SHELL DRAWINGS, FOR REFERENCE PURPOSES ONLY.

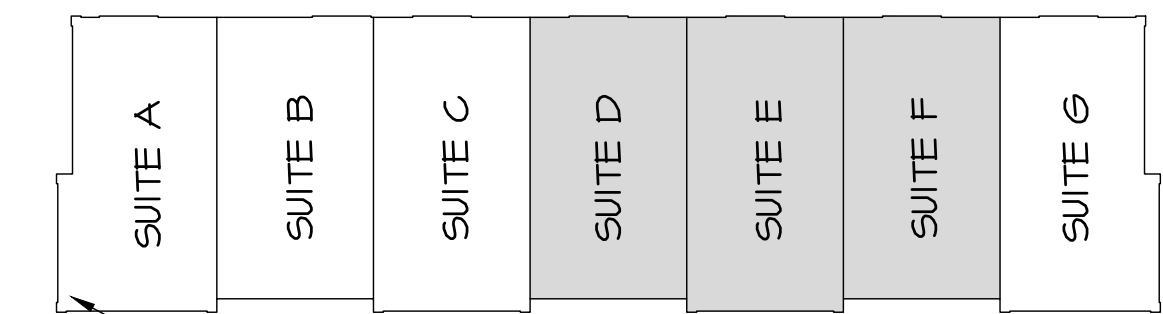
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING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

THROUGH-PENETRATION FIRESTOP SYSTEMS:

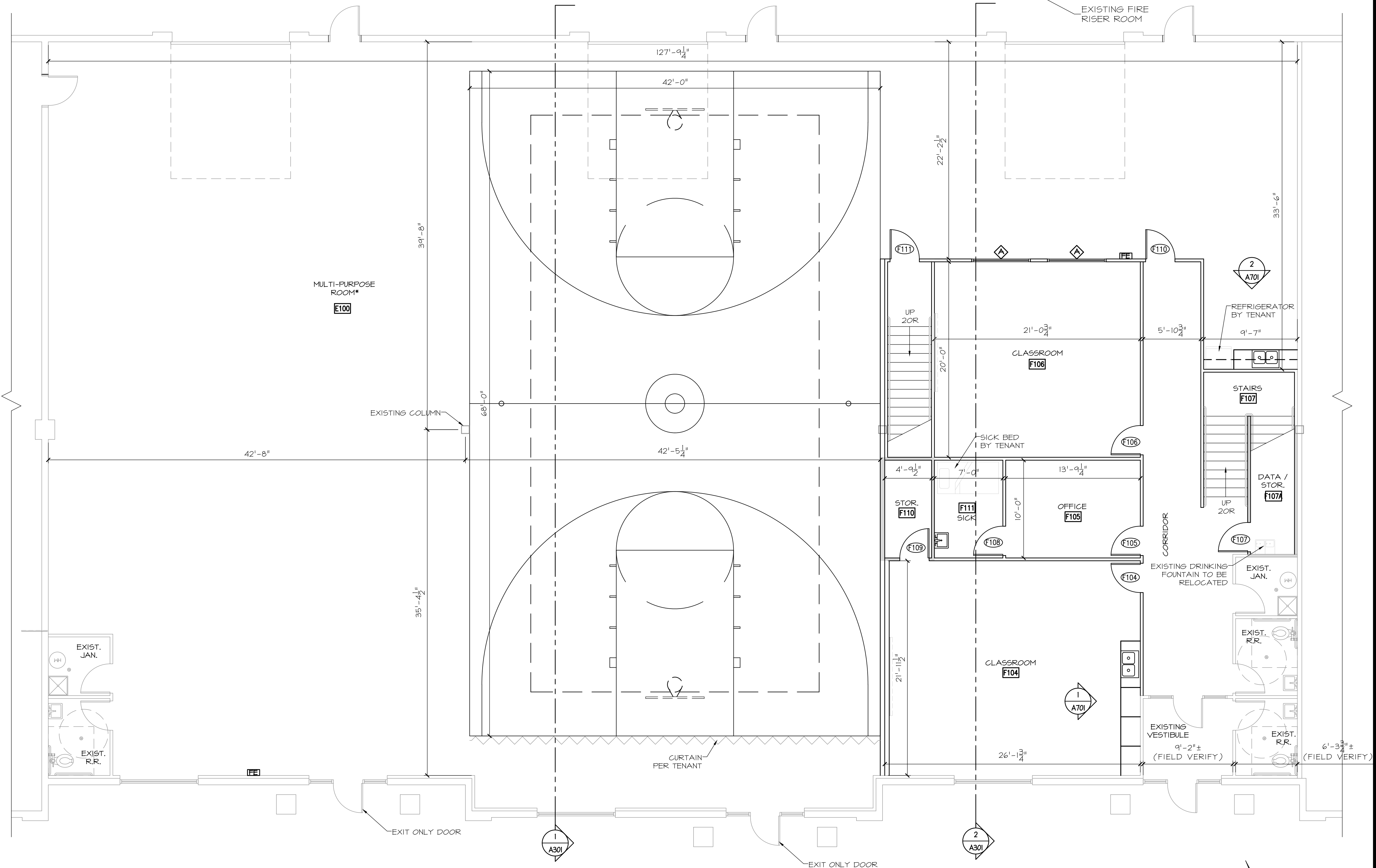
-A FIRE RESISTIVE WALL OR FLOOR MUST BE SEALED BACK TO ITS ORIGINAL FIRE INTEGRITY WHEN PENETRATED. CONTRACTOR TO USE THE UL DESIGN NUMBERS BELOW TO MAINTAIN FIRE RESISTIVE INTEGRITY.
 -STUD WALLS: W-L-1002

-FIRE RESISTIVE ROOMS:
 -STORAGE UNDER STAIRS

KEY PLAN



ANNOTATION LEGEND	
SYMBOL	DESCRIPTION
XXX	ROOM NUMBER
XX	DOOR TAG (SEE DOOR SCHEDULE)
◇	WINDOW TAG (SEE WINDOW SCHEDULE)
X XX.X	SECTION CALLOUT
—	WHITE BOARD (PROVIDE BLOCKING PER MANUFACTURER'S INSTRUCTIONS)



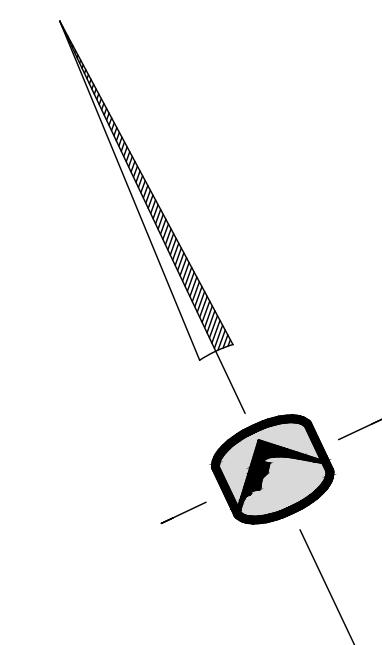
FIRE EXTINGUISHER NOTE:
 UPON COMPLETION OF THIS PROJECT, PROVIDE FIRE EXTINGUISHERS WITH A MIN. RATING OF 2A10BC. FIRE EXTINGUISHERS SHALL BE PLACED TO ENABLE A TRAVEL DISTANCE NOT MORE THAN 75' TO ACCESS FROM ANY POINT OF THE FACILITY.

WALL TYPES LEGEND	
WALL	DESCRIPTION
1 HR. WALL (SHOWN SHADED)	2x4 WOOD STUDS @ 16" O.C. WITH 5/8" TYPE 'X' G&B. BOTH SIDES TO DECK (UL DESIGN U37)
WALL BETWEEN SUITES (SHOWN SHADED)	2x6 WOOD STUDS @ 16" O.C. WITH 5/8" TYPE 'X' G&B. BOTH SIDES TO DECK (UL DESIGN U37)
EXISTING 1 HR. WALL	EXISTING 8" CMU WALL, 1 HOUR (MIN) FIRE RATED WITHOUT MODIFICATION
INTERIOR PARTITION WALLS	2x4 STUDS @ 16" O.C. WITH 5/8" G&B BOTH SIDES (UNCL. IN STRUCTURAL DRAWINGS)
REST ROOM PLUMBING WALL	2x6 STUDS @ 16" O.C. WITH 5/8" WATER-RESISTANT G&B

SUITES D, E, & F MAIN FLOOR PLAN

SCALE: 3/16" = 1'-0"
 **MAIN LEVEL: 1,937 SQ. FT.
 UPPER LEVEL: APPROX. 1,933 SQ. FT.
 TOTAL NEW: 3,870 SQ. FT.
 EXISTING: 330 SQ. FT.
 MULTIPURPOSE: 7538 SQ. FT.
 TOTAL: APPROX. 11,738 SQ. FT.
 **AREA EXCLUDES EXISTING FINISHED AREAS & NEW BASKETBALL COURT

1
A111



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DAVINCI ACADEMY - SUITES D, E, & F
 850 WEST 350 NORTH
 KAYSVILLE, UT 84037

DATE: 01/14/2020
 PROJECT: 16-153.07
 DRAWN BY: CS

REVISIONS:

SUITES D, E, & F
 MAIN FLOOR PLAN

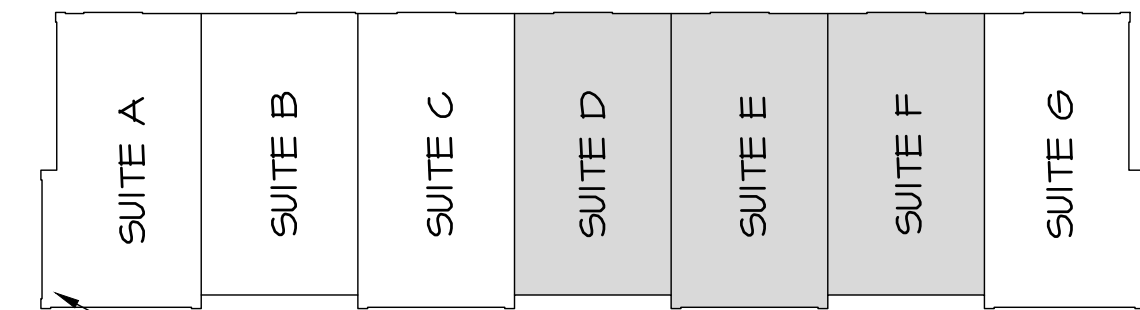
SHEET NUMBER:
A111

THROUGH-PENETRATION FIRESTOP SYSTEMS:

-A FIRE RESISTIVE WALL OR FLOOR MUST BE SEALED BACK TO ITS ORIGINAL FIRE INTEGRITY WHEN PENETRATED. CONTRACTOR TO USE THE UL DESIGN NUMBERS BELOW TO MAINTAIN FIRE RESISTIVE INTEGRITY.
-STUD WALLS: W-L-1002

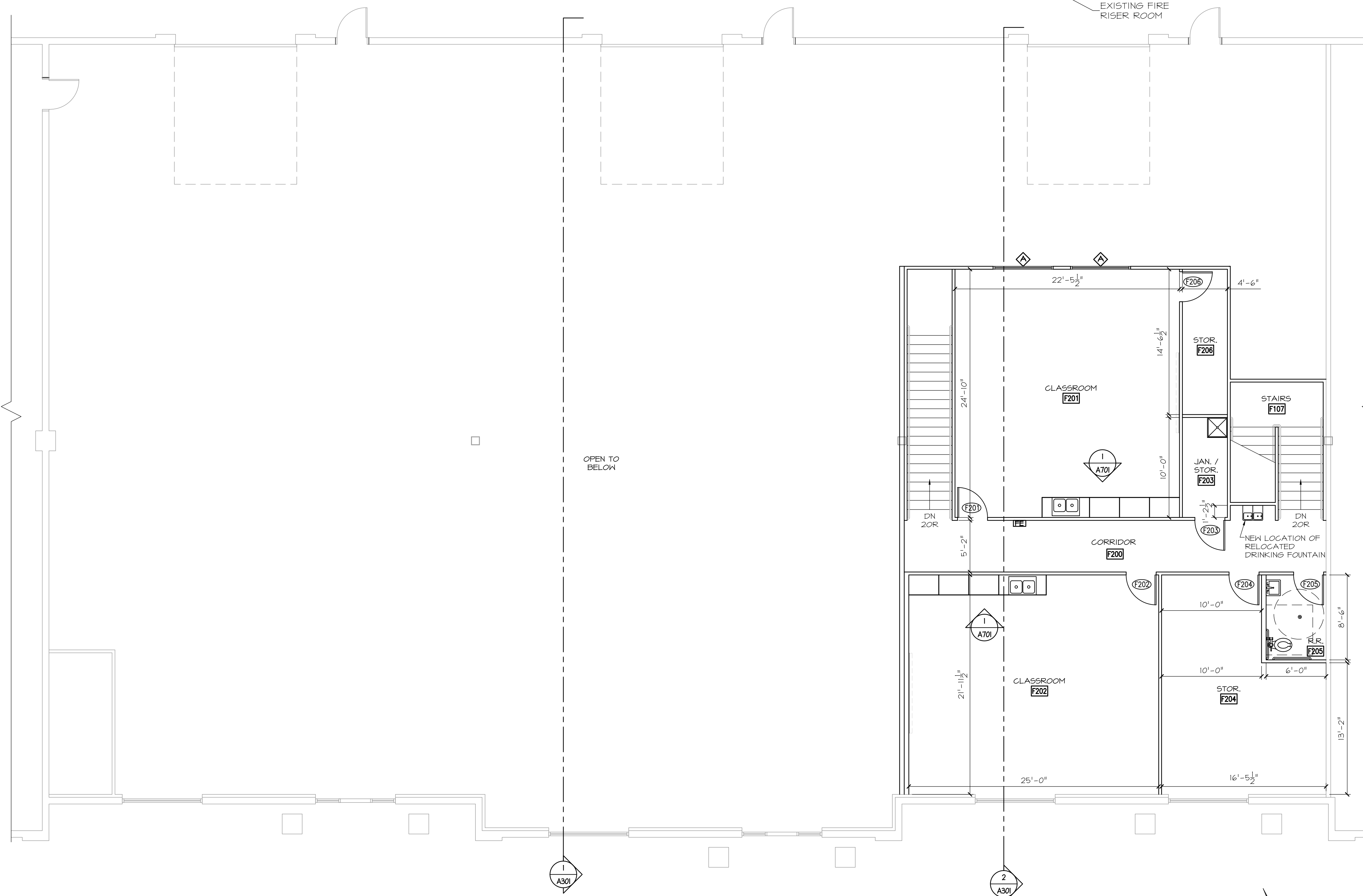
-FIRE RESISTIVE ROOMS:
-STORAGE UNDER STAIRS

KEY PLAN



EXISTING FIRE RISER ROOM

ANNOTATION LEGEND	
SYMBOL	DESCRIPTION
XXX	ROOM NUMBER
XXX	DOOR TAG (SEE DOOR SCHEDULE)
◇	WINDOW TAG (SEE WINDOW SCHEDULE)
X XX.X	SECTION CALLOUT
□	WHITE BOARD (PROVIDE BLOCKING PER MANUFACTURER'S INSTRUCTIONS)

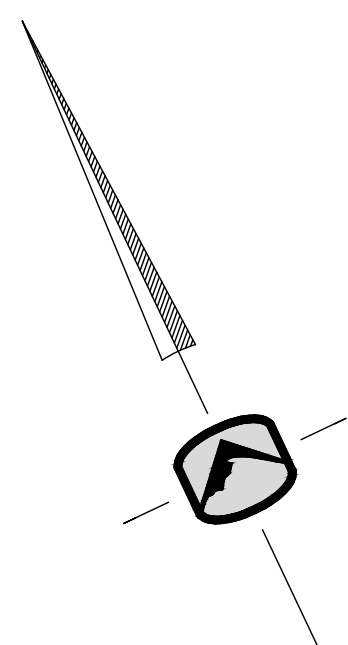


FIRE EXTINGUISHER NOTE:
 [FE] UPON COMPLETION OF THIS PROJECT, PROVIDE FIRE EXTINGUISHERS WITH A MIN. RATING OF 2A10BC. FIRE EXTINGUISHERS SHALL BE PLACED TO ENABLE A TRAVEL DISTANCE NOT MORE THAN 75' TO ACCESS FROM ANY POINT OF THE FACILITY.

WALL TYPES LEGEND	
WALL	DESCRIPTION
1 HR. WALL (SHOWN SHADED)	2x4 WOOD STUDS @ 16" O.C. WITH 5/8" TYPE 'X' G&B. BOTH SIDES TO DECK (UL DESIGN U37)
WALL BETWEEN SUITES (SHOWN SHADED)	2x6 WOOD STUDS @ 16" O.C. WITH 5/8" TYPE 'X' G&B. BOTH SIDES TO DECK (UL DESIGN U37)
EXISTING 1 HR. WALL	EXISTING 8" CMU WALL, 1 HOUR (MIN) FIRE RATED WITHOUT MODIFICATION
INTERIOR PARTITION WALLS	2x4 STUDS @ 16" O.C. WITH 5/8" G&B BOTH SIDES (UNCL. IN STRUCTURAL DRAWINGS)
REST ROOM PLUMBING WALL	2x6 STUDS @ 16" O.C. WITH 5/8" WATER-RESISTANT G&B

SUITES D, E, & F UPPER FLOOR PLAN
 SCALE: 3/16" = 1'-0"

1
A112



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DAVINCI ACADEMY - SUITES D, E, & F
 850 WEST 350 NORTH
 KAYSVILLE, UT 84037

DATE: 01/14/2020
 PROJECT: 16-153.07
 DRAWN BY: CS

REVISIONS:

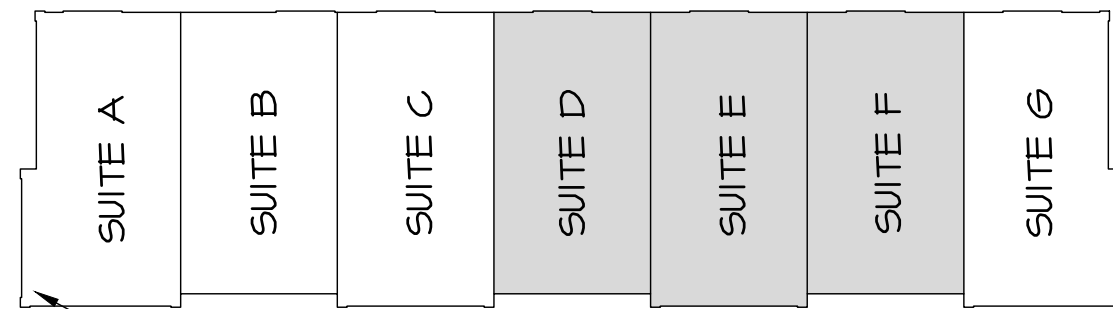
NO.	DESCRIPTION

SUITES D, E, & F
 UPPER FLOOR PLAN

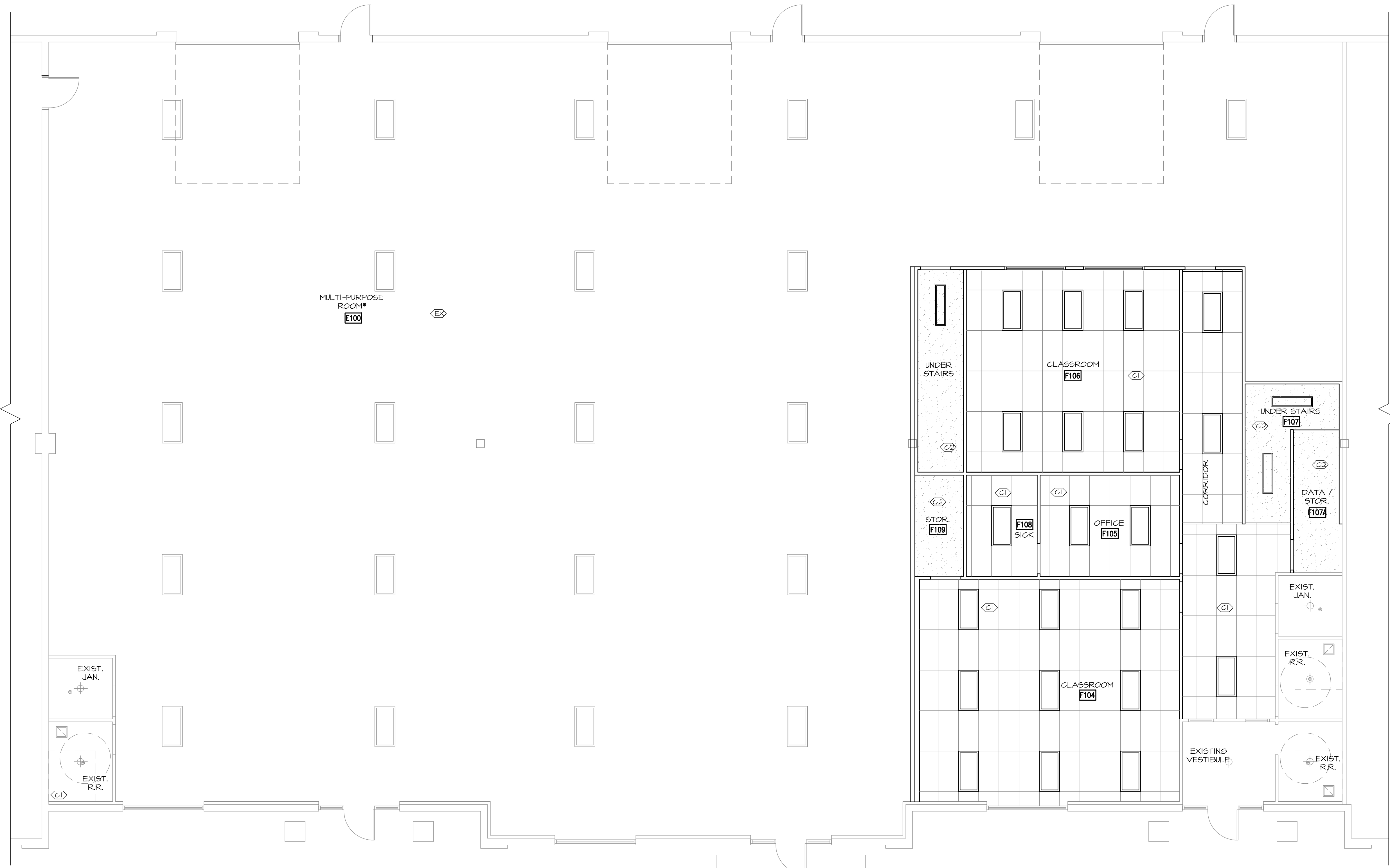
SHEET NUMBER:
A112

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KEY PLAN



EXISTING FIRE RISER ROOM



CEILING TYPES	
MARK	DESCRIPTION
C1	2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM CEILING HEIGHT = 9'-0" A.F.F.
C2	5/8" GYPSUM BOARD CEILING CEILING HEIGHT = 9'-0" A.F.F.
C3	2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM CEILING HEIGHT = 8'-3" A.F.F.
C4	5/8" GYPSUM BOARD CEILING CEILING HEIGHT = 8'-0" A.F.F.
C5	2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM CEILING HEIGHT = 8'-0" A.F.F.
EX	EXPOSED STRUCTURE CEILING

NOTE: SEE ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTING AND EXIT SIGNS.



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DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM

REVISIONS:

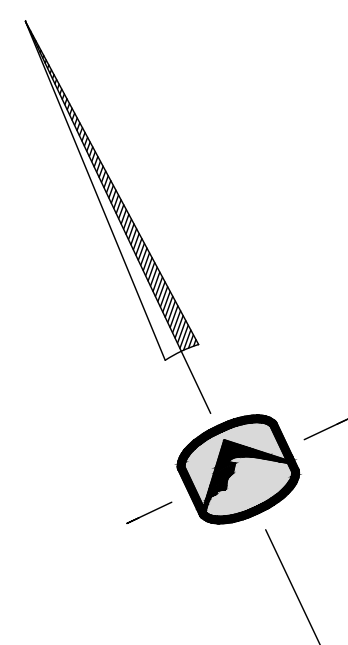
SUITES D, E, & F
MAIN REFLECTED
CEILING PLAN

SHEET NUMBER:
A131

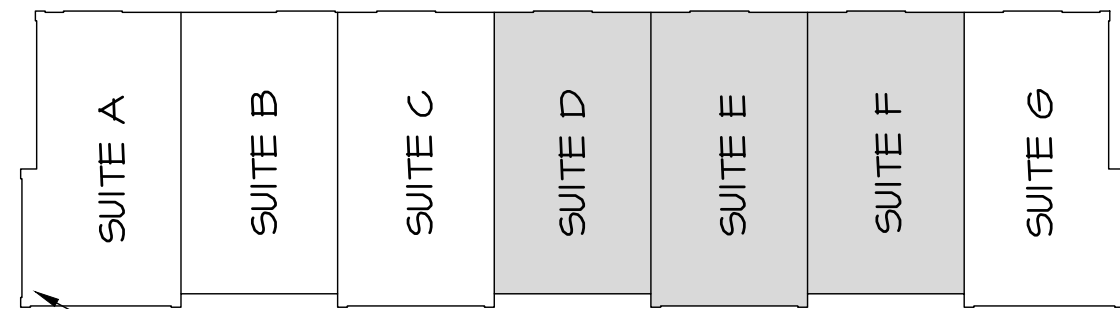
**SUITE D, E, AND F
MAIN REFLECTED CEILING PLAN**

SCALE: 3/16" = 1'-0"

1
A131



KEY PLAN



EXISTING FIRE RISER ROOM

IBC SEISMIC INSTALLATION REQUIREMENTS. INSTALLATION MUST CONFORM TO CISCA RECOMMENDATIONS AND ALSO MUST MEET THESE ADDITIONAL REQUIREMENTS:

- * MINIMUM 2" WALL MOLDING
- * GRID MUST BE ATTACHED TO TWO ADJACENT WALLS - OPPOSITE WALLS MUST HAVE 3/4" CLEARANCE
- * ENDS OF MAIN BEAMS AND CROSS TIES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING
- * HEAVY-DUTY GRID SYSTEM
- * CEILING AREAS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING
- * CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS
- * CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR SPRINKLERS AND OTHER PENETRATIONS
- * CHANGES IN CEILING PLANE MUST HAVE POSITIVE BRACING
- * CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED AND BRACED
- * SUSPENDED CEILING WILL BE SUBJECT TO SPECIAL INSPECTION

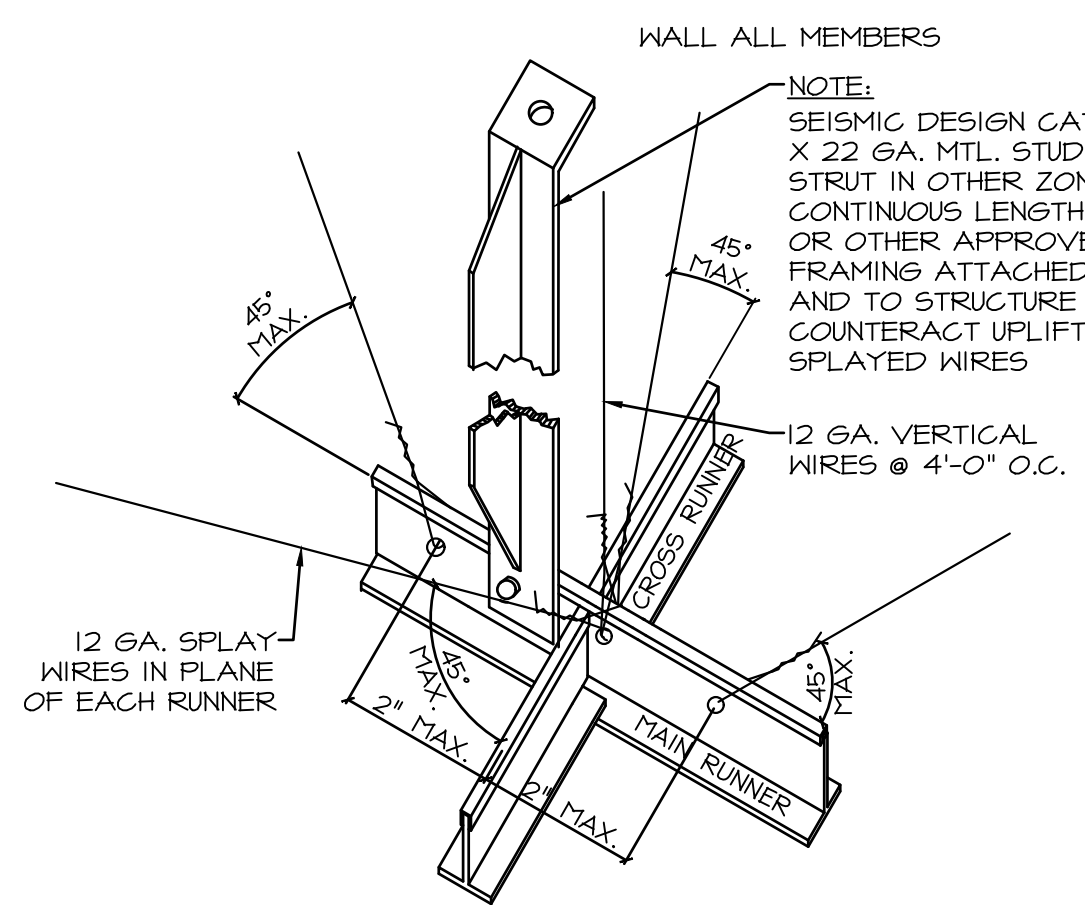
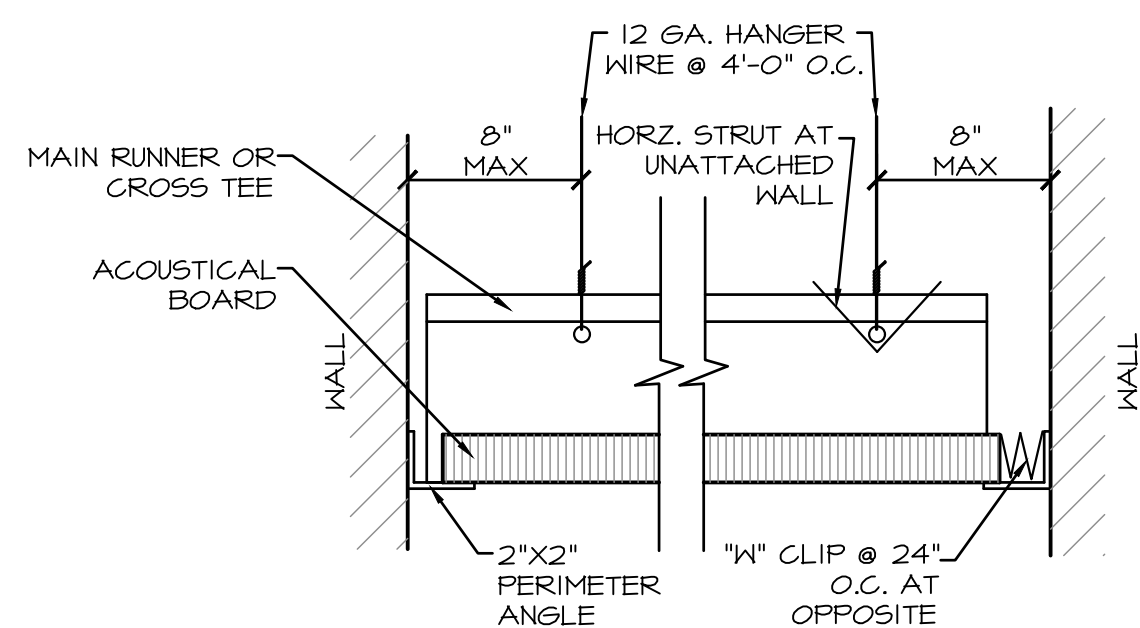
NOTES:

1. ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENTS.
2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 3 TURNS IN 1" OF RUN
3. AREAS SMALLER THAN 144 SQ. FT. WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED TO BE BRACED. COMPRESSIVE STRUTS REQUIRED @ 12'-0" O.C.
4. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE SLACK).
5. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UNBRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

CEILING TYPES

MARK	DESCRIPTION
C1	2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM CEILING HEIGHT = 9'-0" A.F.F.
C2	5/8" GYPSUM BOARD CEILING CEILING HEIGHT = 9'-0" A.F.F.
C3	2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM CEILING HEIGHT = 8'-3" A.F.F.
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C5	2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM CEILING HEIGHT = 8'-0" A.F.F.
EX	EXPOSED STRUCTURE CEILING

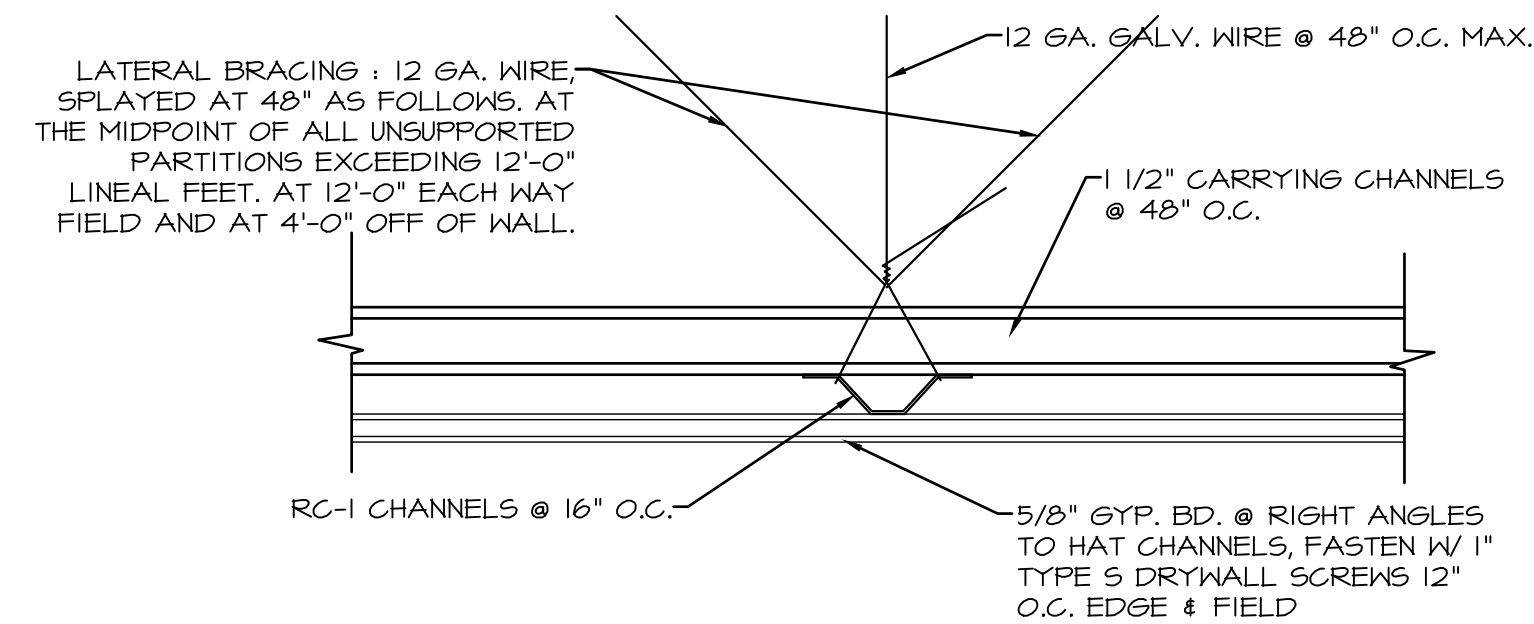
NOTE: SEE ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTING AND EXIT SIGNS.



CEILING SUSPENSION SYSTEM & SEISMIC BRACING DETAIL (TYP.)

NOT TO SCALE

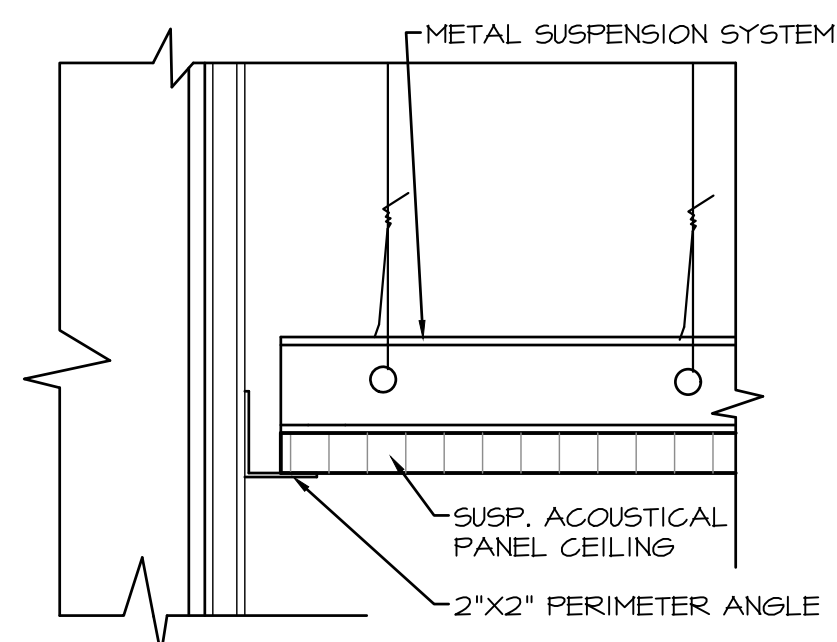
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A131



CEILING DETAIL

NOT TO SCALE

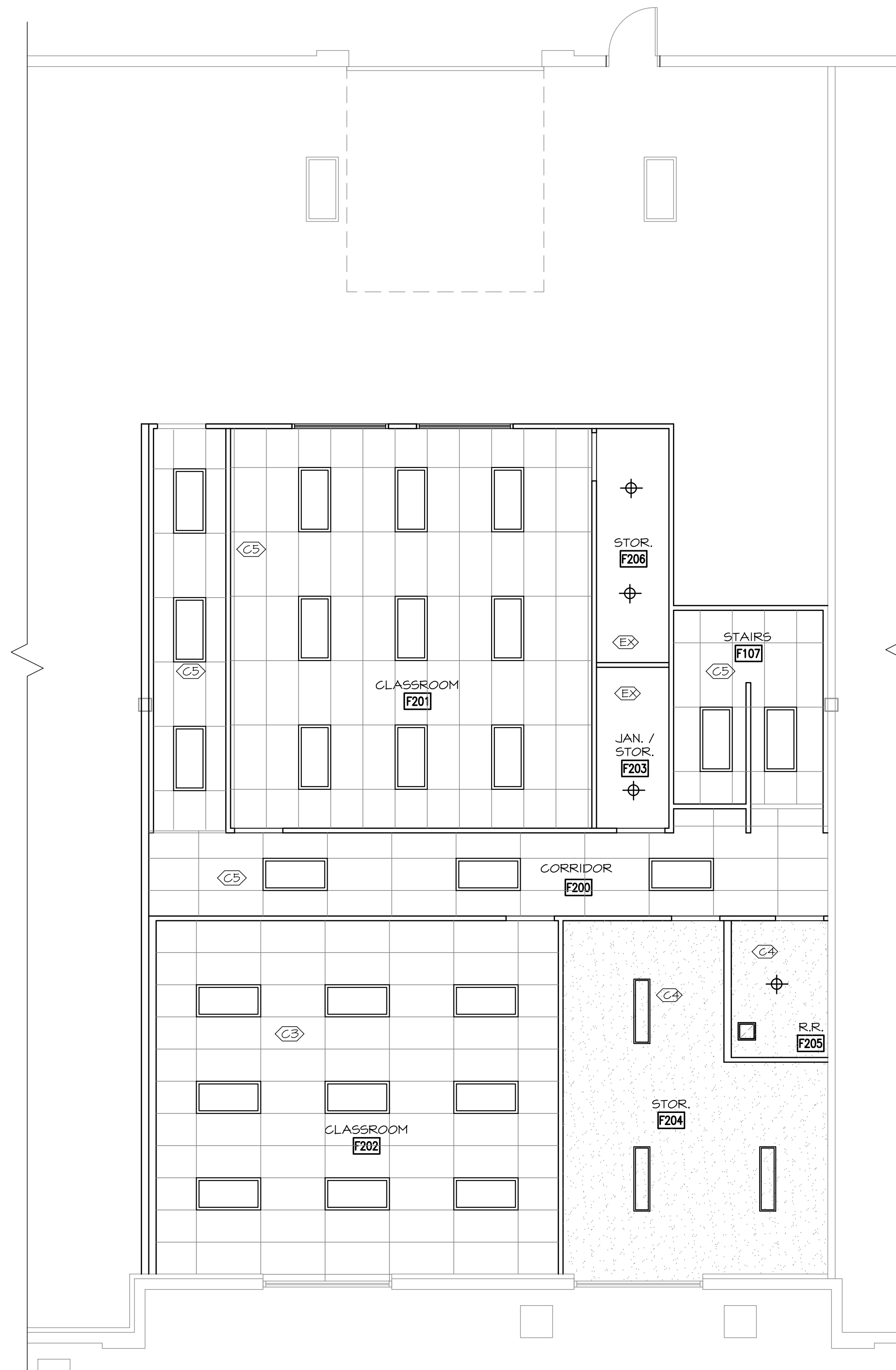
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A131



CEILING DETAIL

NOT TO SCALE

C
A131



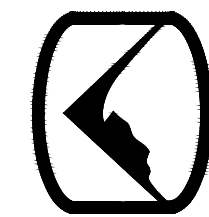
SUITE D, E, AND F UPPER REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"

1
A132



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



SILVERPEAK ENGINEERING

WWW.SILVERPEAKENG.COM

STRUCTURAL CIVIL SURVEY

DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM

REVISIONS:

SUITES D, E, & F UPPER REFLECTED CEILING PLAN

SHEET NUMBER:
A132



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STRUCTURAL CIVIL SURVEY
 WWW.SILVERPEAKENG.COM

DAVINCI ACADEMY - SUITES D, E, & F
 850 WEST 350 NORTH
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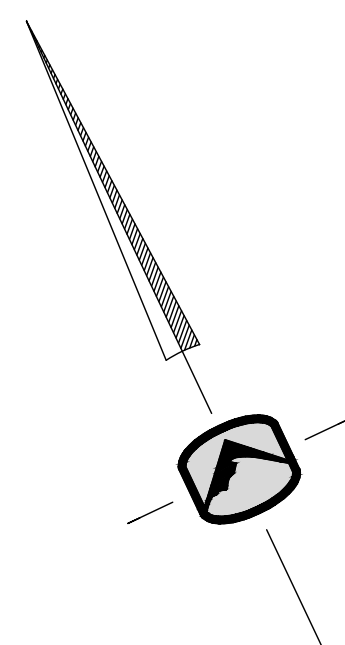
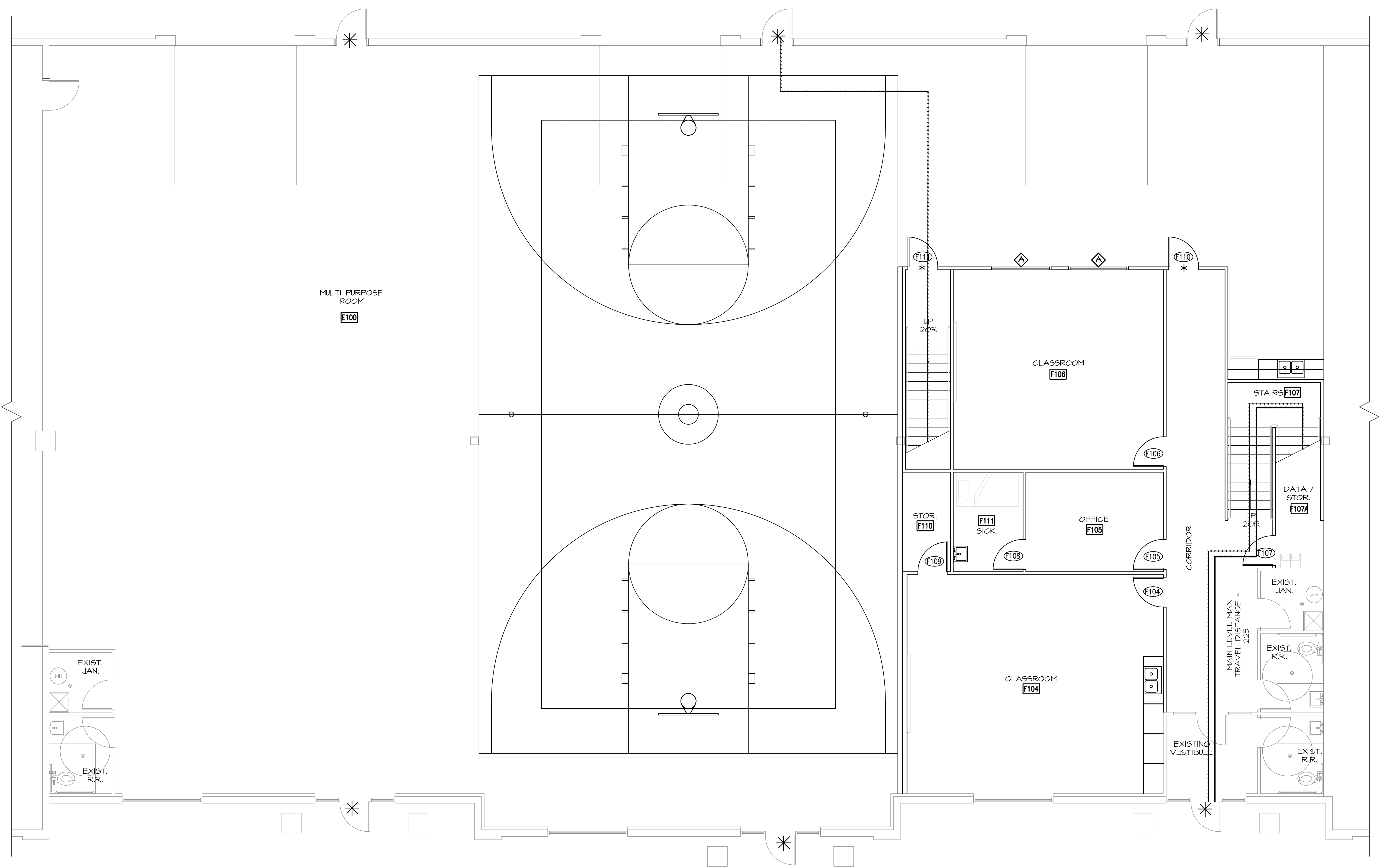
REVISIONS:

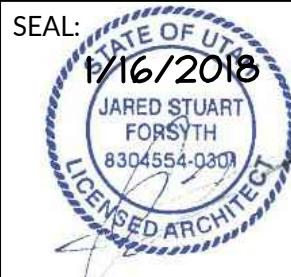
SUITES D, E, & F
 MAIN FLOOR
 EXIT PLAN

SHEET NUMBER:
A141

LEGEND	
SYMBOL	DESCRIPTION
* (with asterisk)	EXTERIOR EXIT DOORWAY
*	INTERIOR EXIT DOORWAY
-----	EXIT PATH
-----	ACTUAL MAXIMUM TRAVEL DISTANCE

NOTE: THE MAX. ALLOWABLE TRAVEL DISTANCE FOR THIS BUILDING IS 250' PER IBC TABLE 1017.2





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STRUCTURAL CIVIL SURVEY
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850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
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DRAWN BY: WM

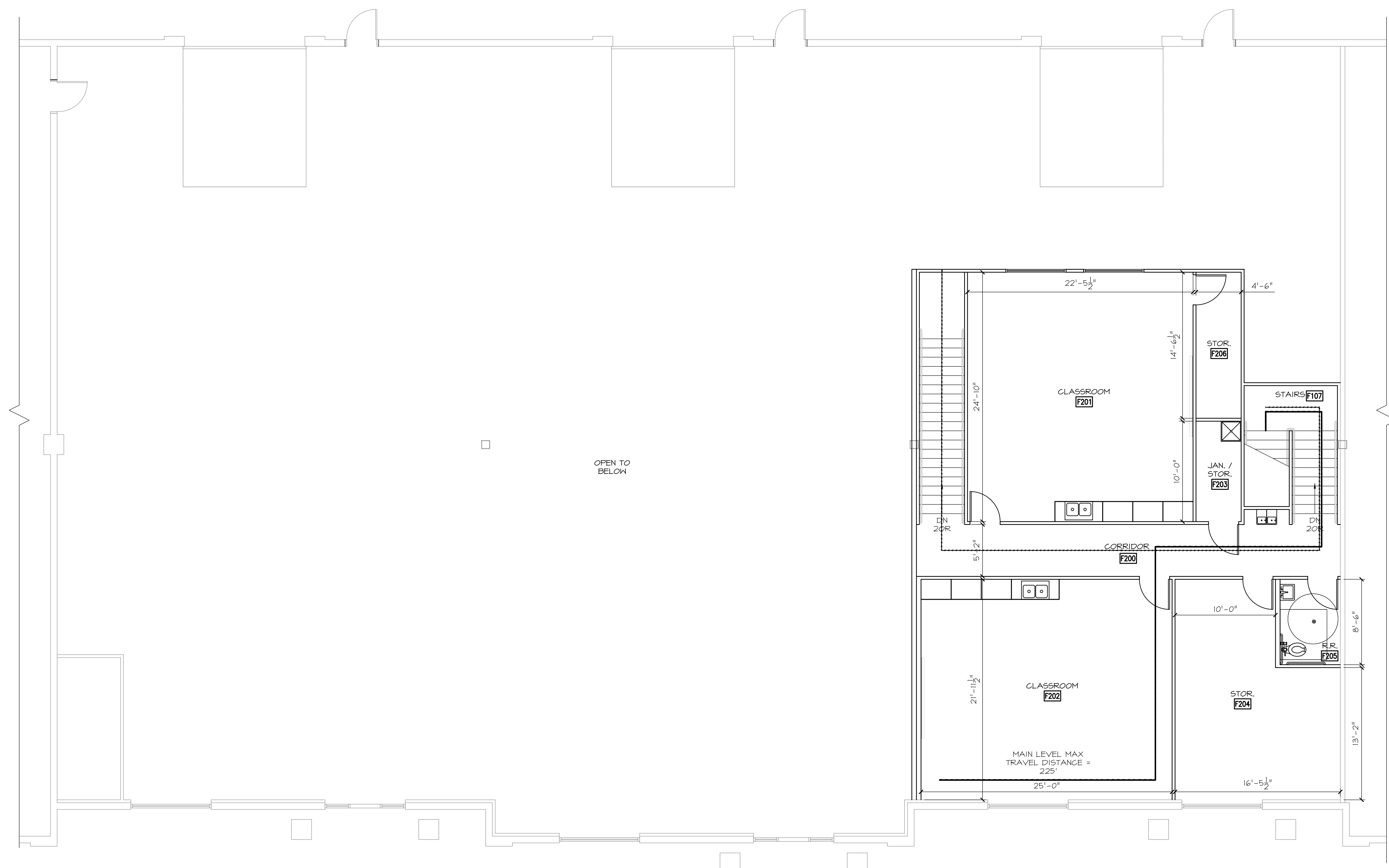
REVISIONS:

SUITES D, E, & F
UPPER FLOOR
EXIT PLAN

SHEET NUMBER:
A142

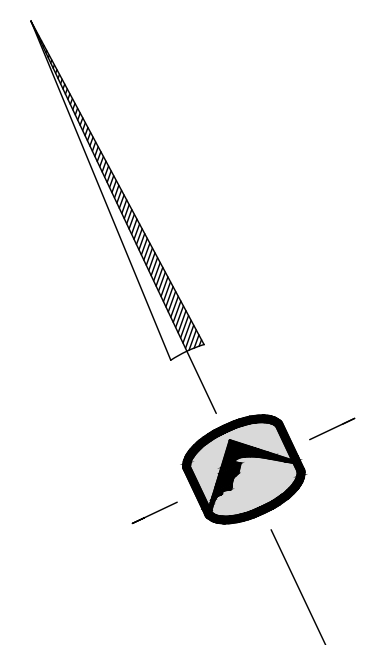
LEGEND	
SYMBOL	DESCRIPTION
* (with asterisk in a square)	EXTERIOR EXIT DOORWAY
* (with asterisk in a circle)	INTERIOR EXIT DOORWAY
-----	EXIT PATH
—————	ACTUAL MAXIMUM TRAVEL DISTANCE

NOTE: THE MAX. ALLOWABLE TRAVEL DISTANCE FOR THIS BUILDING IS 250' PER IBC TABLE 1017.2



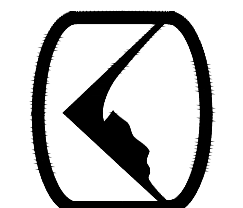
OPEN TO BELOW

MAIN LEVEL MAX TRAVEL DISTANCE = 225'





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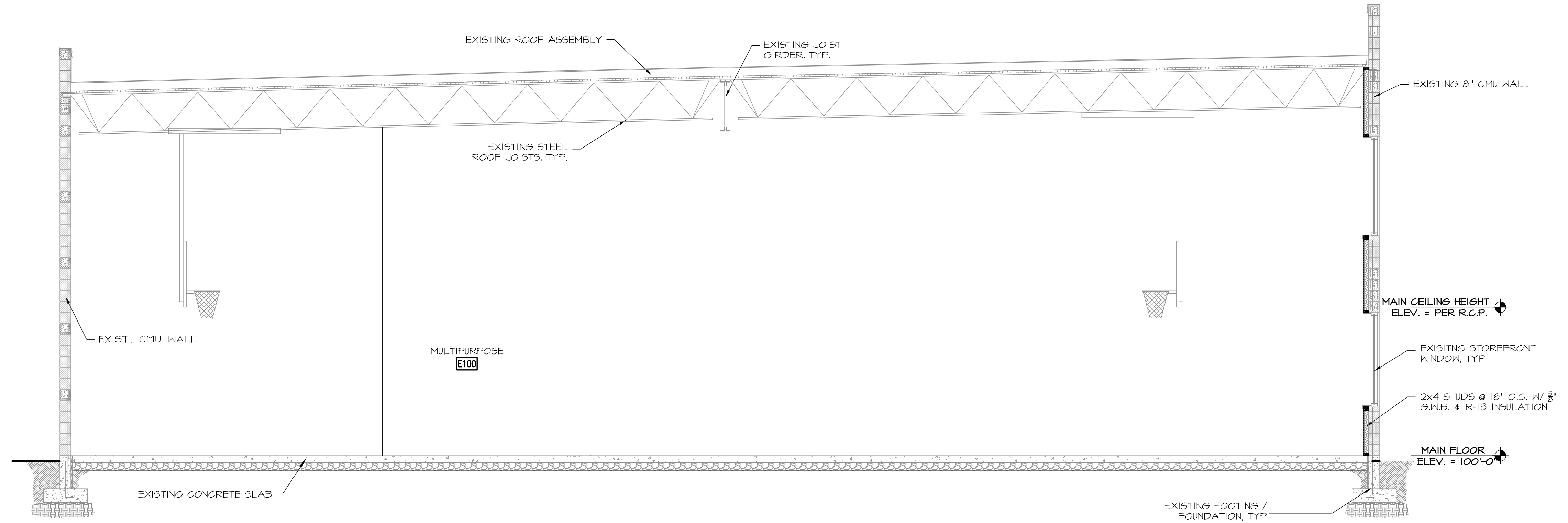
DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM

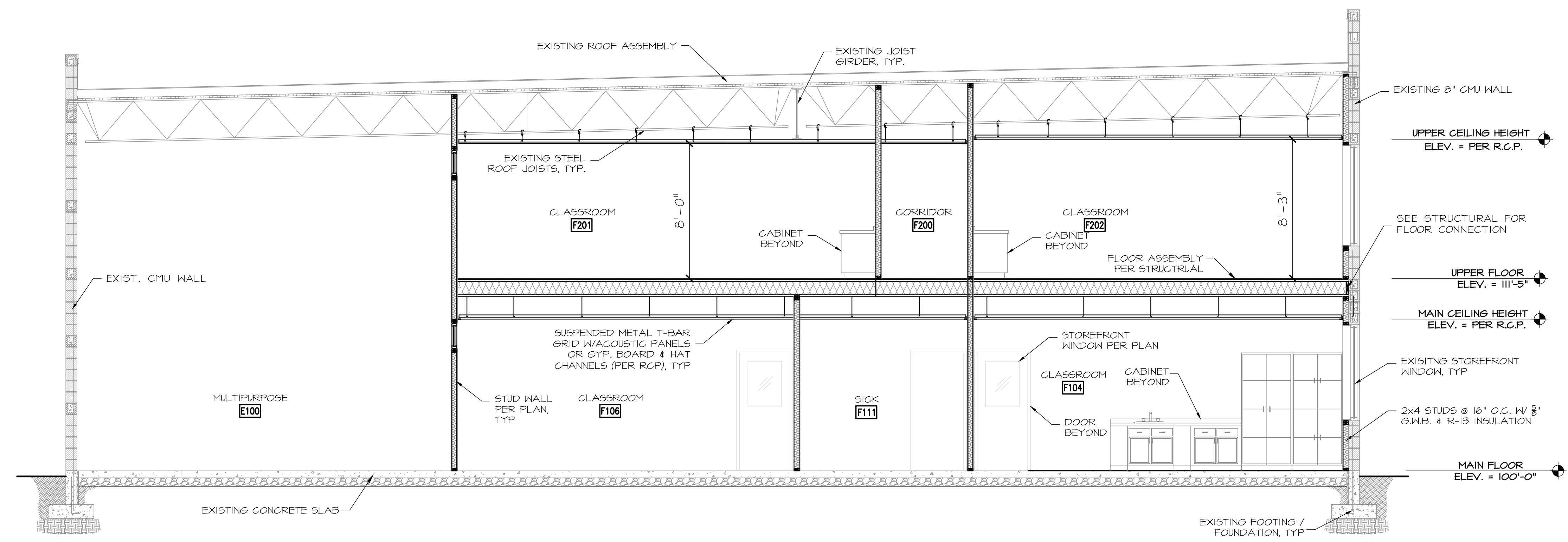
REVISIONS:

BUILDING SECTIONS

SHEET NUMBER:
A301

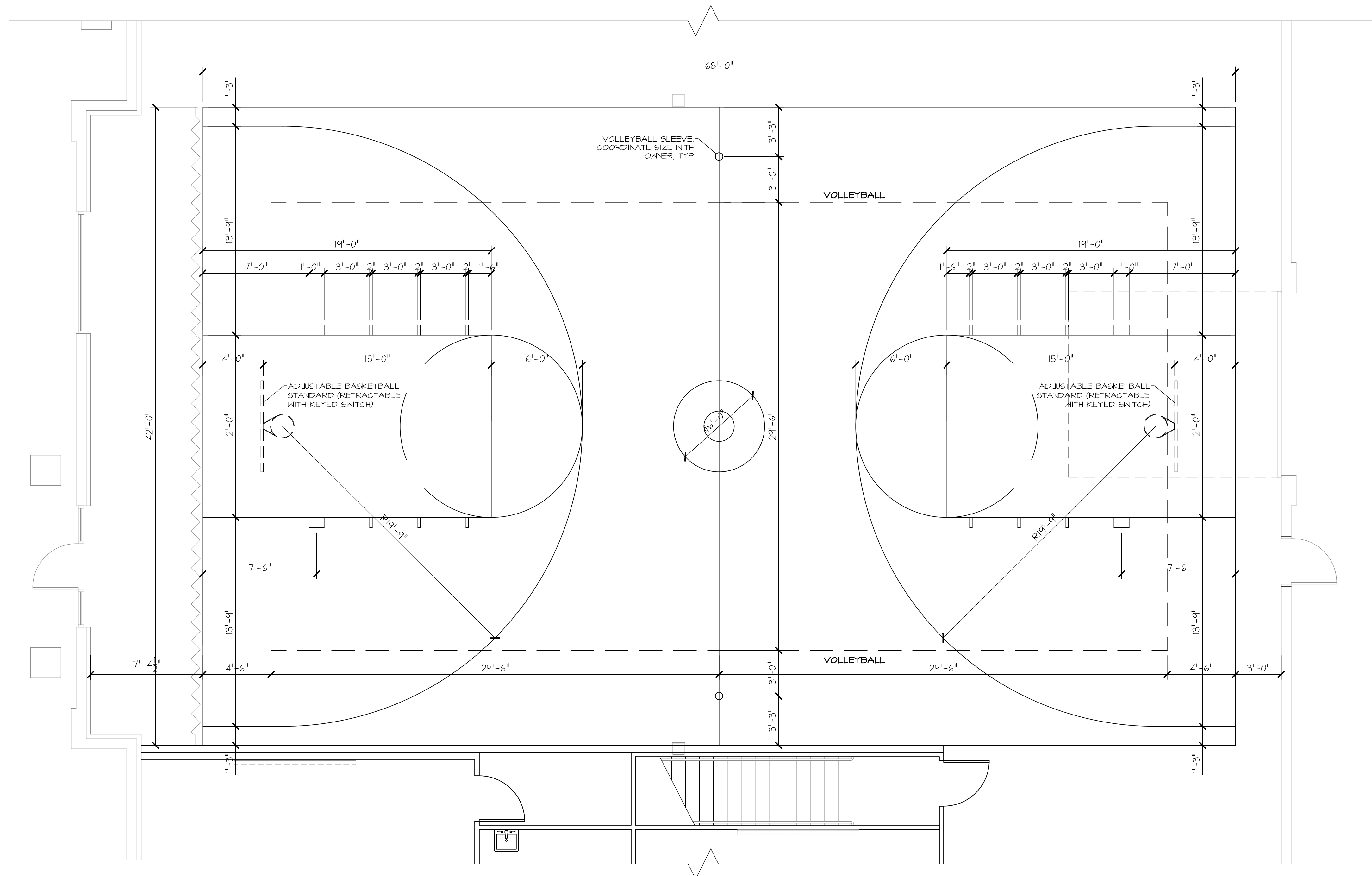


BUILDING SECTION
SCALE: 1/4" = 1'-0" 1
A301



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

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.



ENLARGED BASKETBALL COURT PLAN 1
 SCALE: 1/4" = 1'-0" A411



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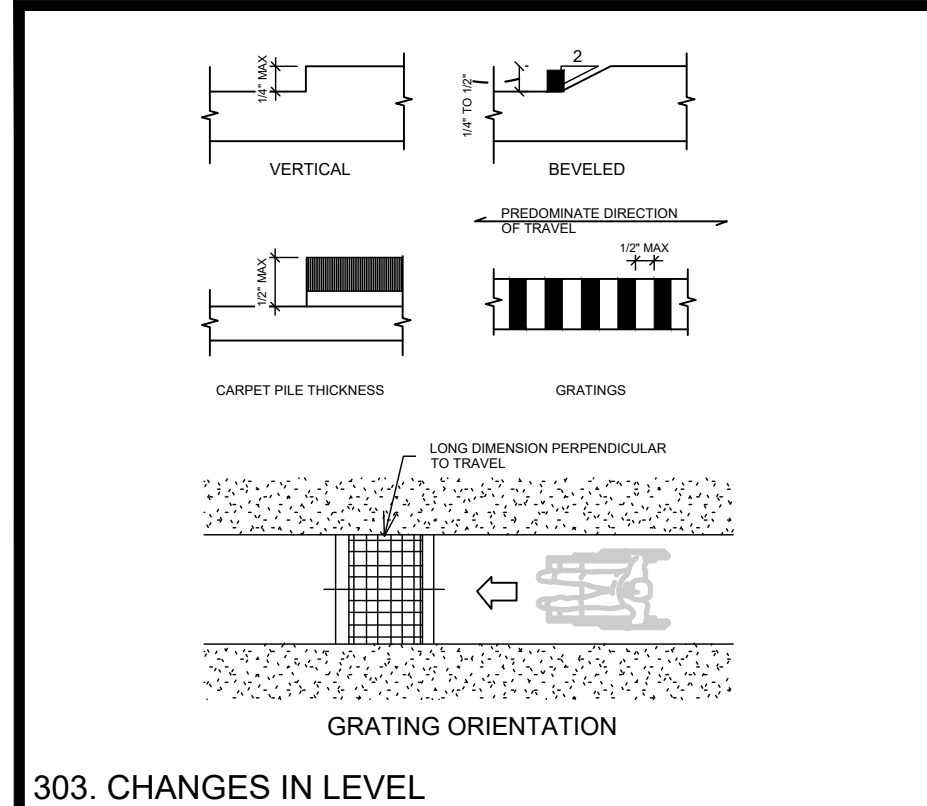
DAVINCI ACADEMY - SUITES D, E, & F
 850 WEST 350 NORTH
 KAYSVILLE, UT 84037

DATE: 01/14/2020
 PROJECT: 16-153.07
 DRAWN BY: WM
 REVISIONS:

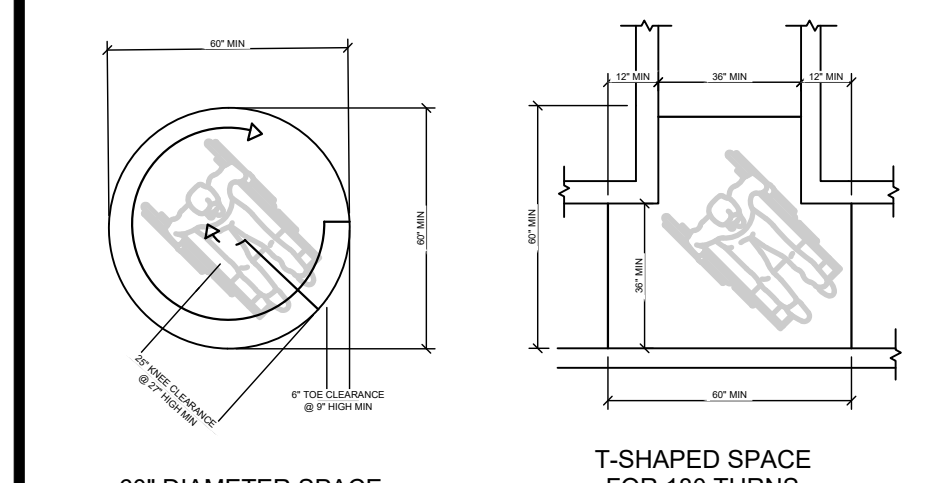
ENLARGED BASKETBALL COURT PLAN

SHEET NUMBER:
A411

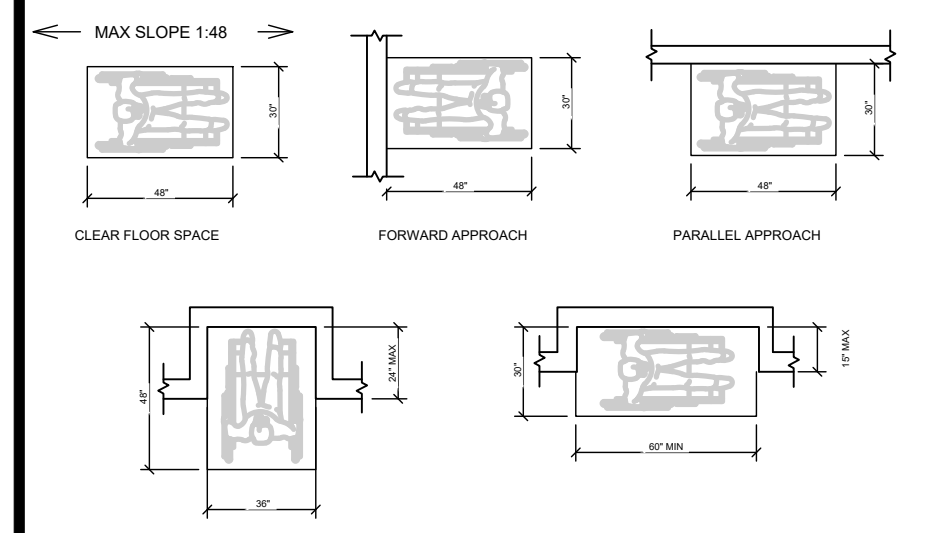
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING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



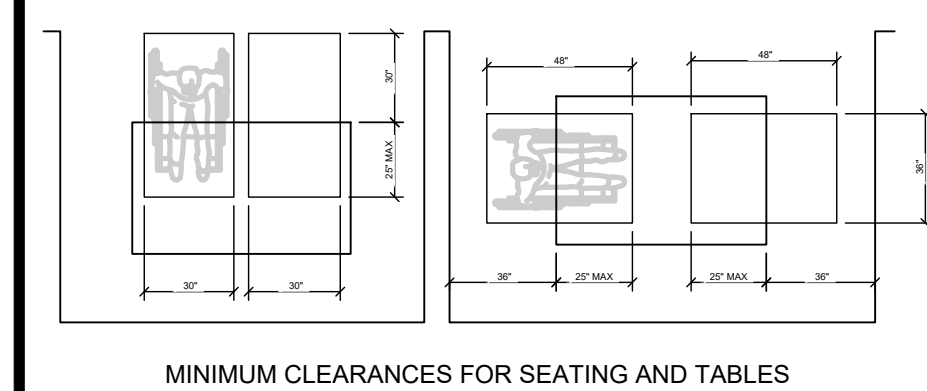
303. CHANGES IN LEVEL



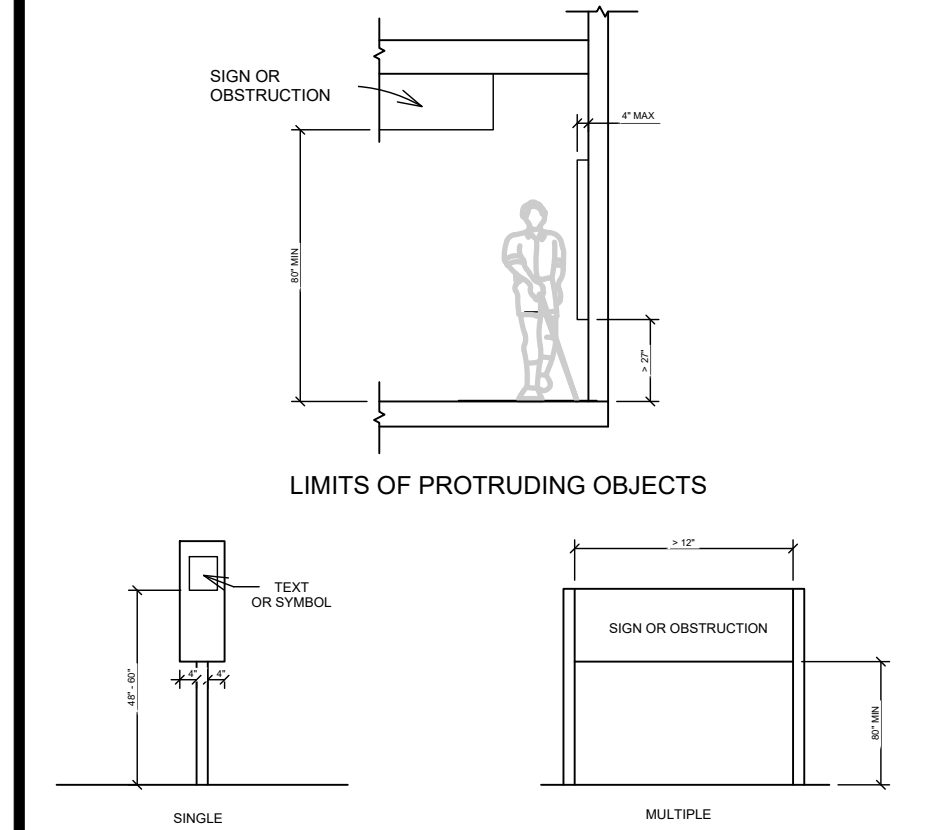
304. WHEELCHAIR TURNING SPACE



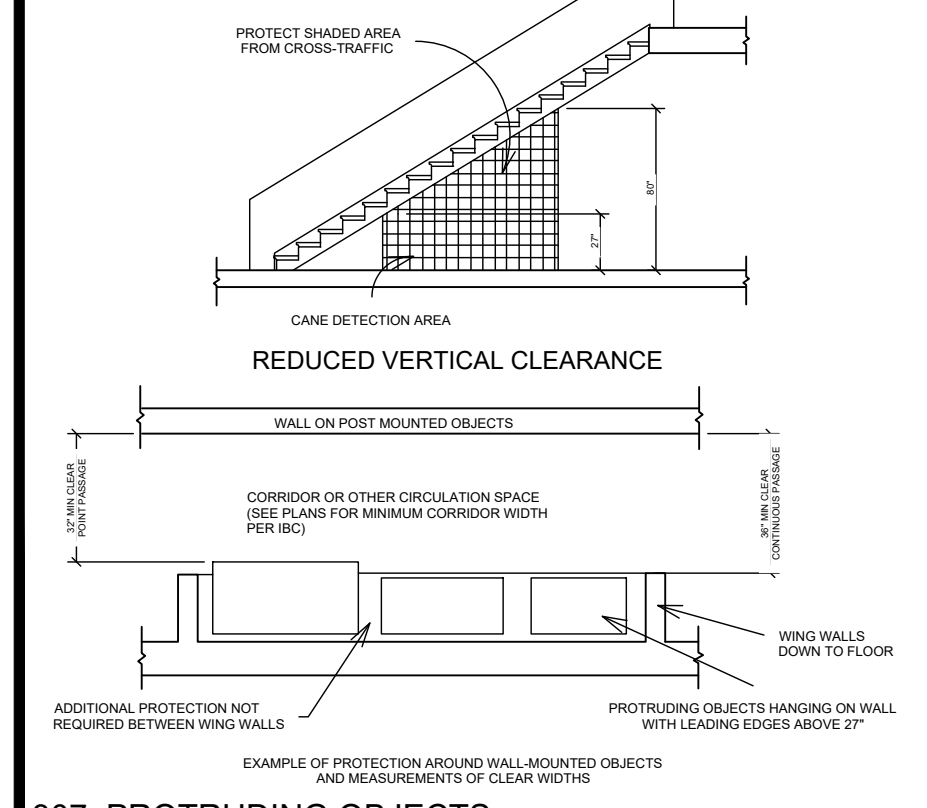
305. CLEAR FLOOR OR GROUND SPACE



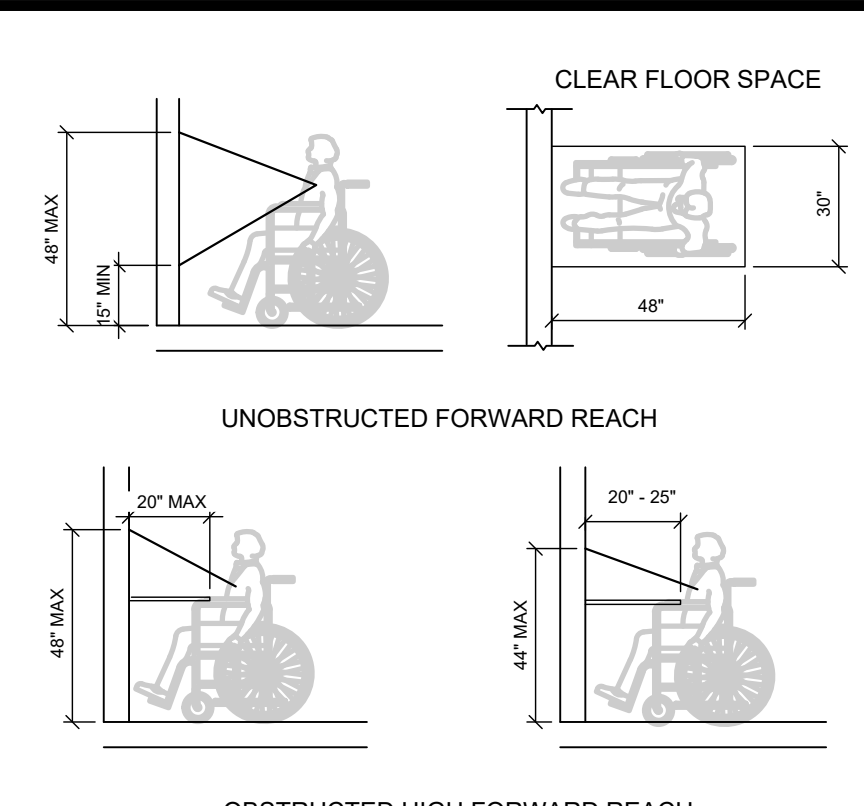
306. KNEE CLEARANCE



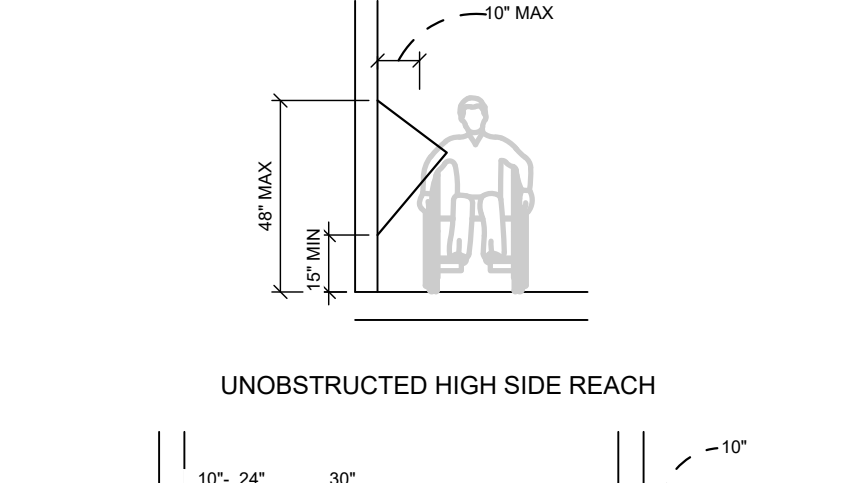
307. PROTRUDING OBJECTS



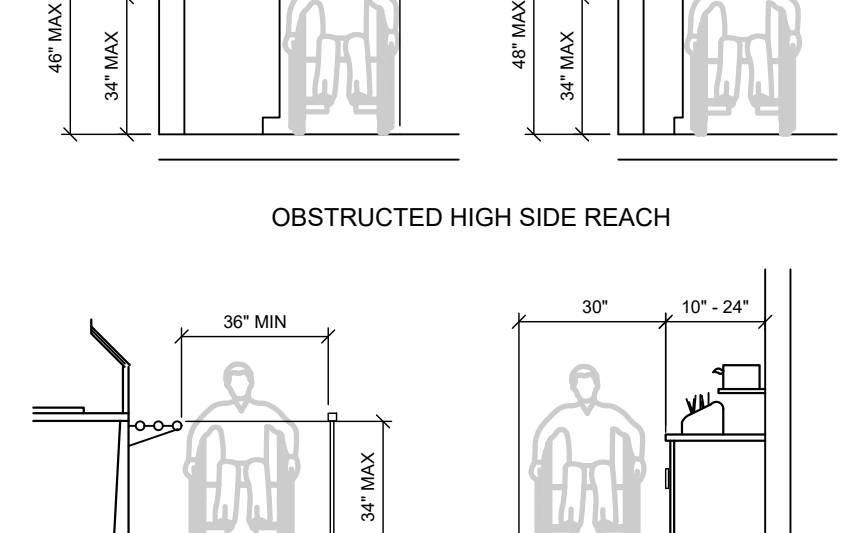
308. REACH RANGES



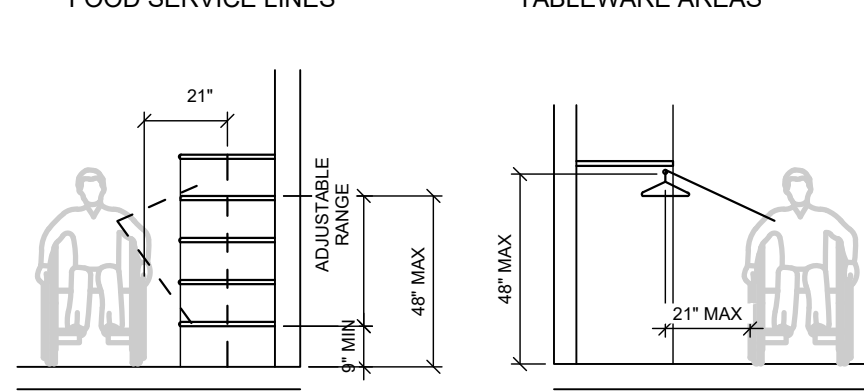
309. GRAB BARS



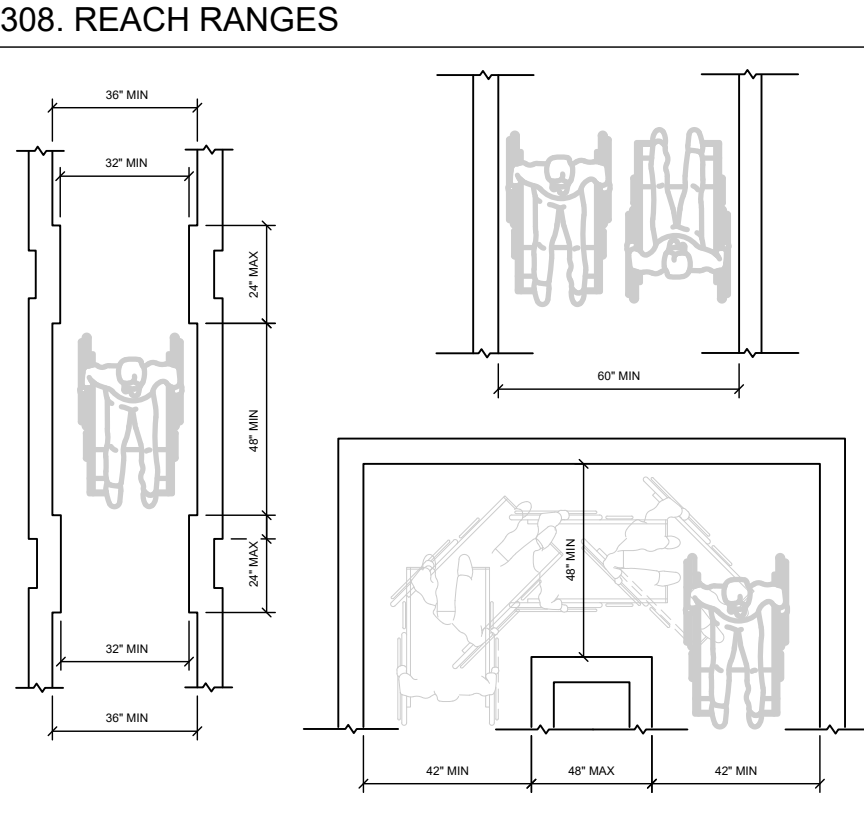
310. UNOBSTRUCTED HIGH SIDE REACH



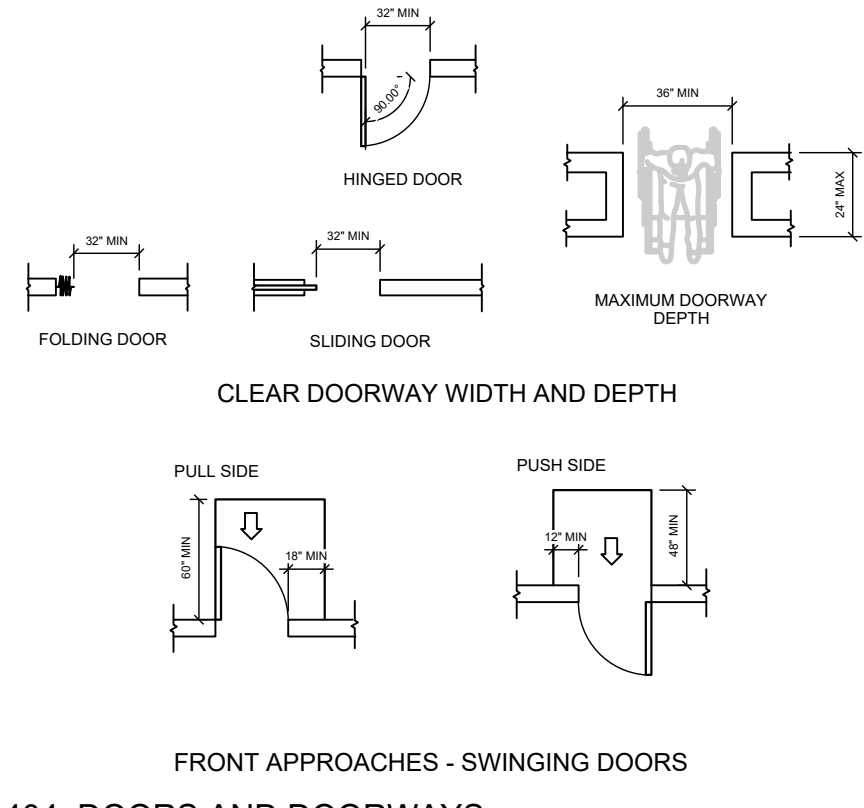
311. OBSTRUCTED HIGH SIDE REACH



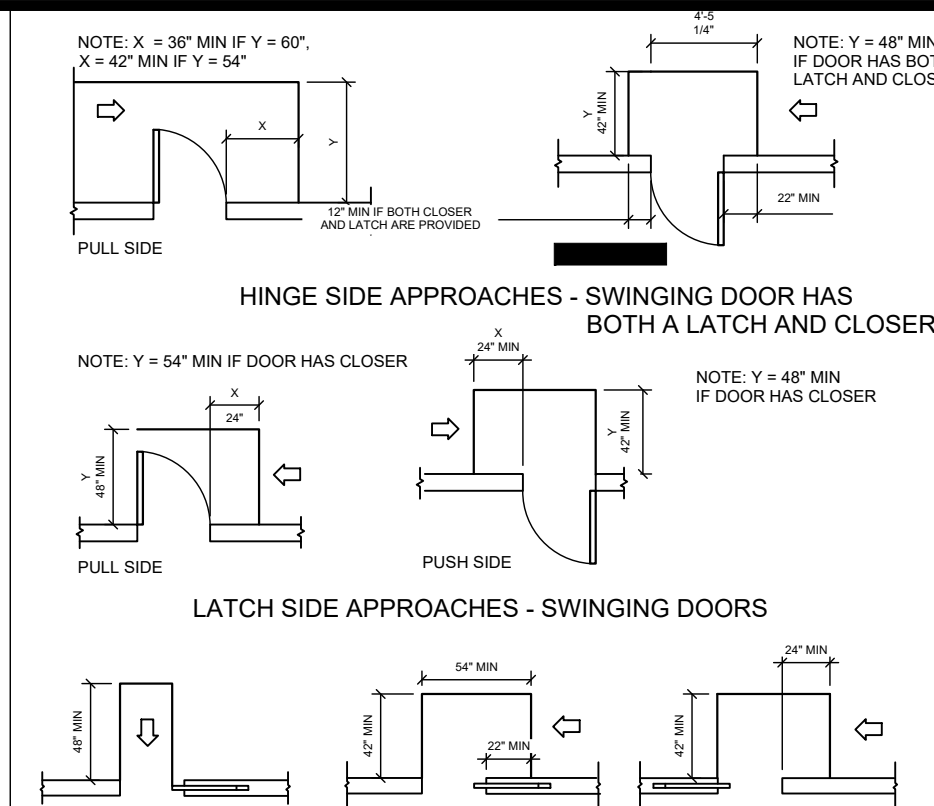
312. FOOD SERVICE LINES



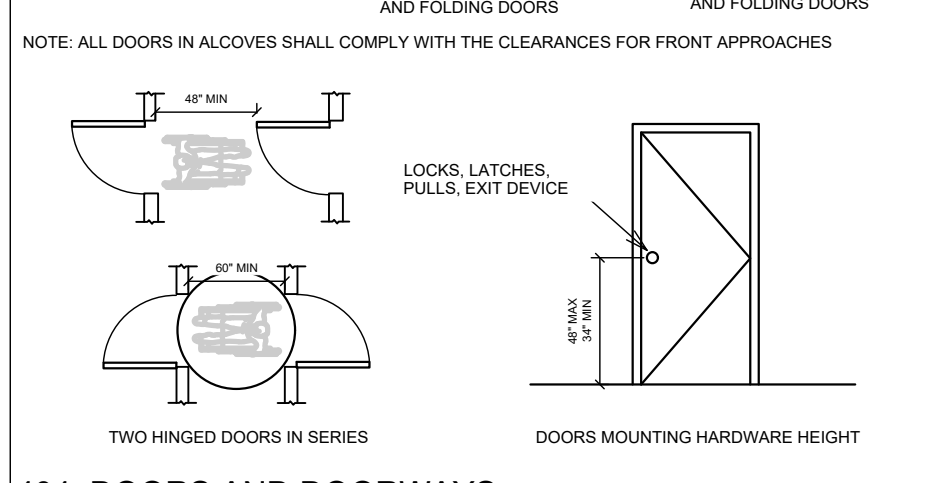
313. SHELVES



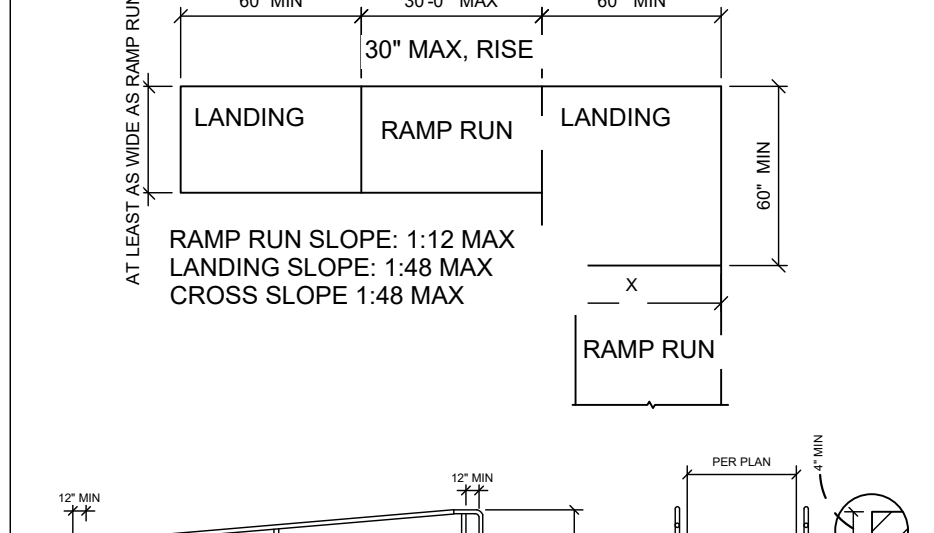
314. DOORS AND DOORWAYS



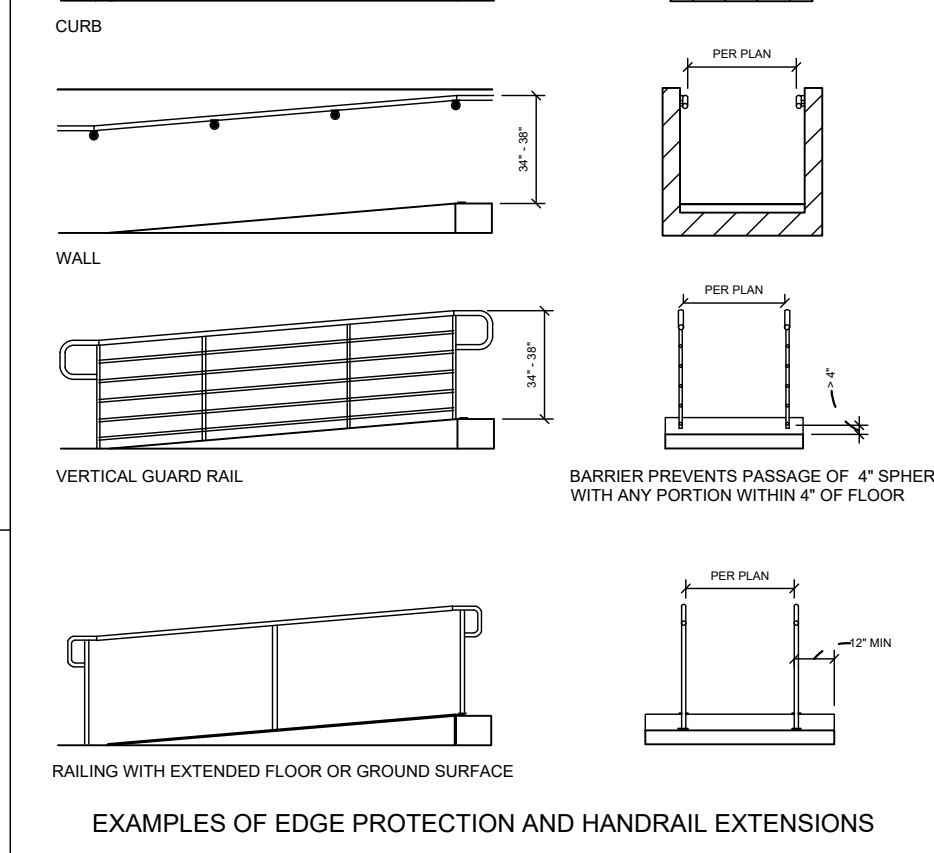
315. HINGE SIDE APPROACHES - SWINGING DOOR HAS BOTH A LATCH AND CLOSER



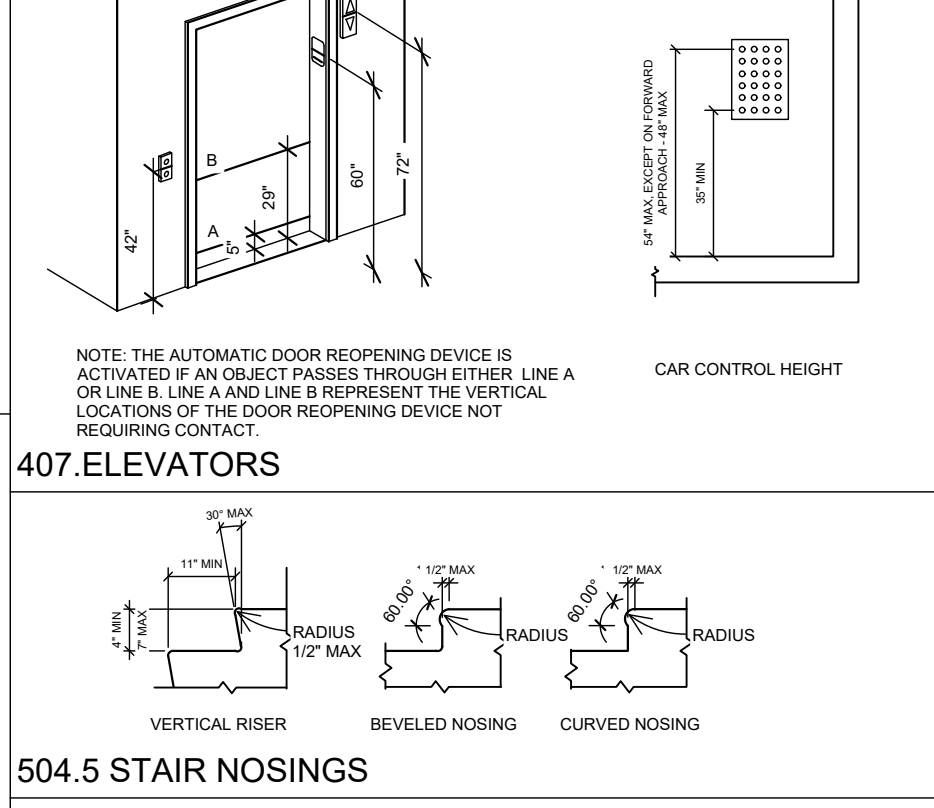
316. LATCH SIDE APPROACHES - SWINGING DOORS



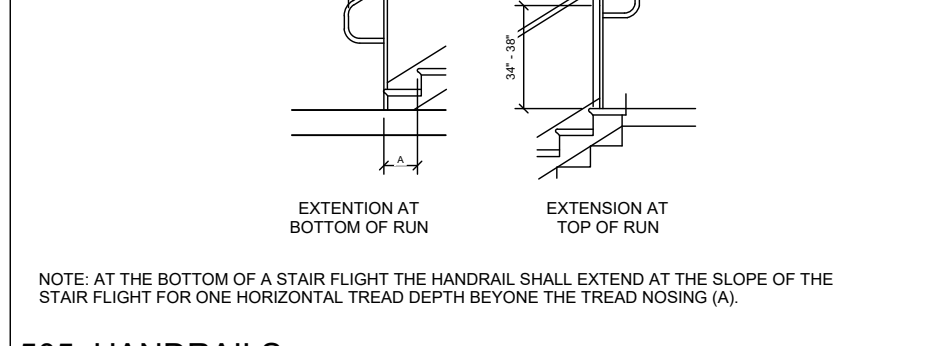
317. DOORS MOUNTING HARDWARE HEIGHT



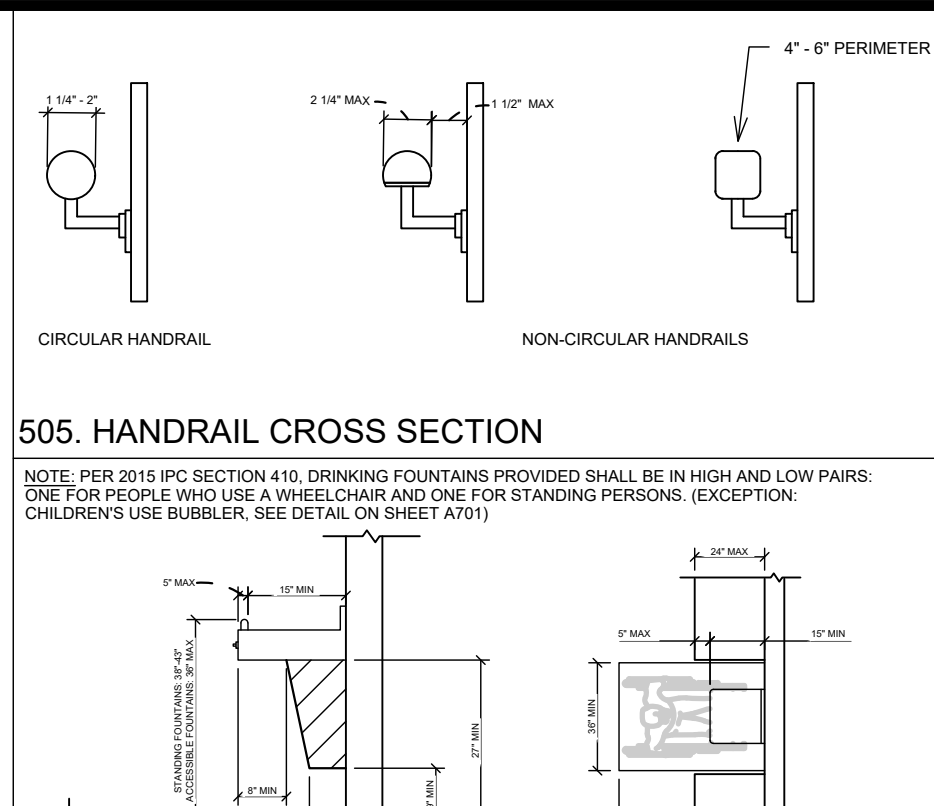
318. RAMP RUN



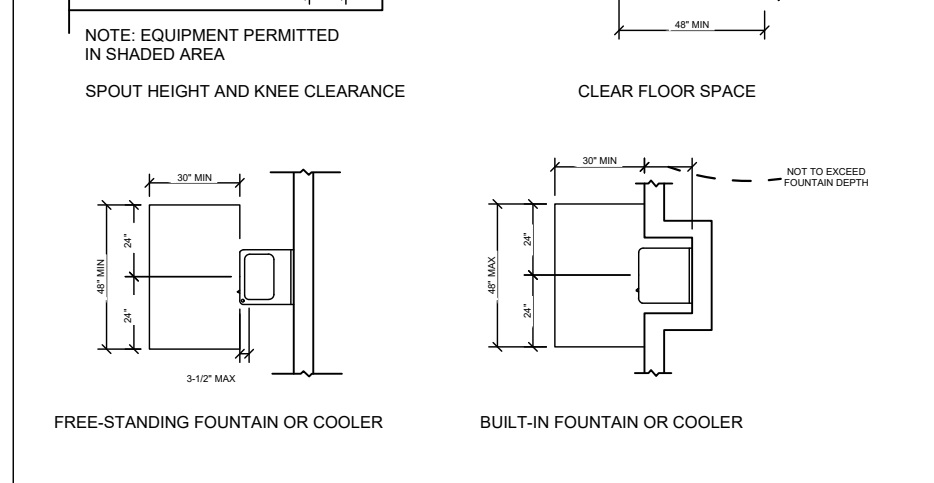
319. RAMP RUN



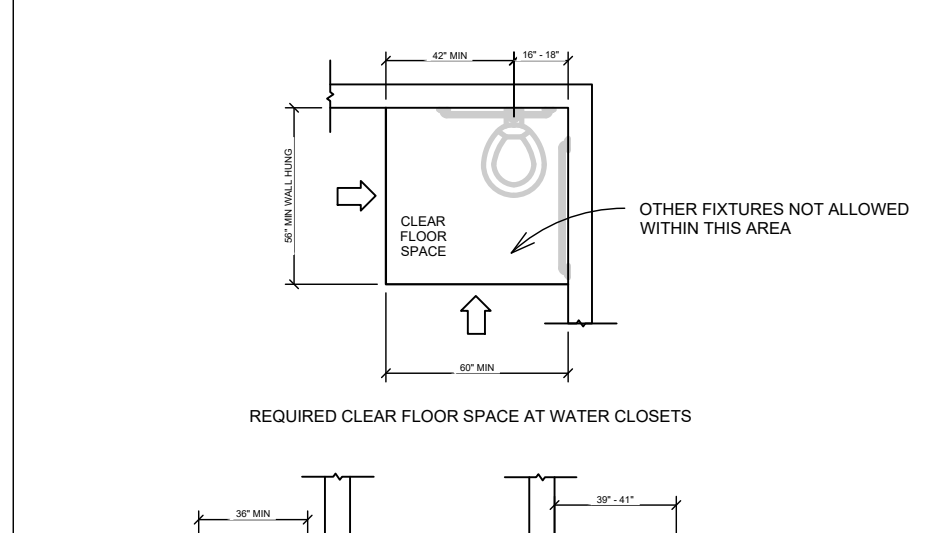
320. 407. ELEVATORS



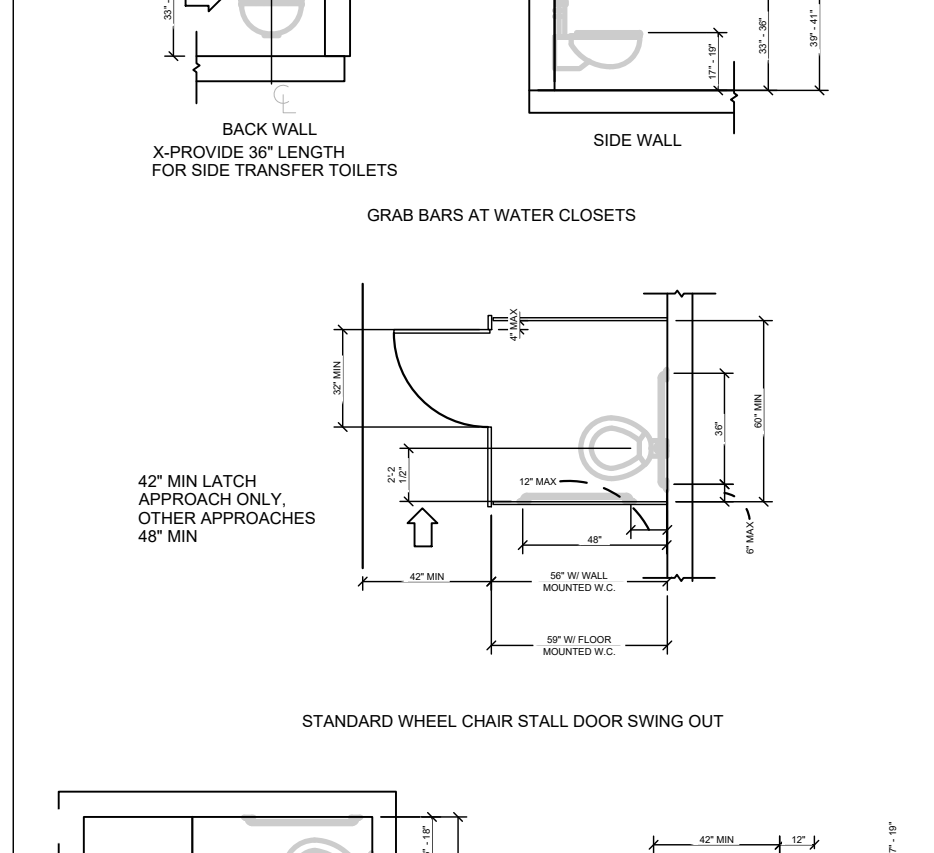
321. 505. HANDRAIL CROSS SECTION



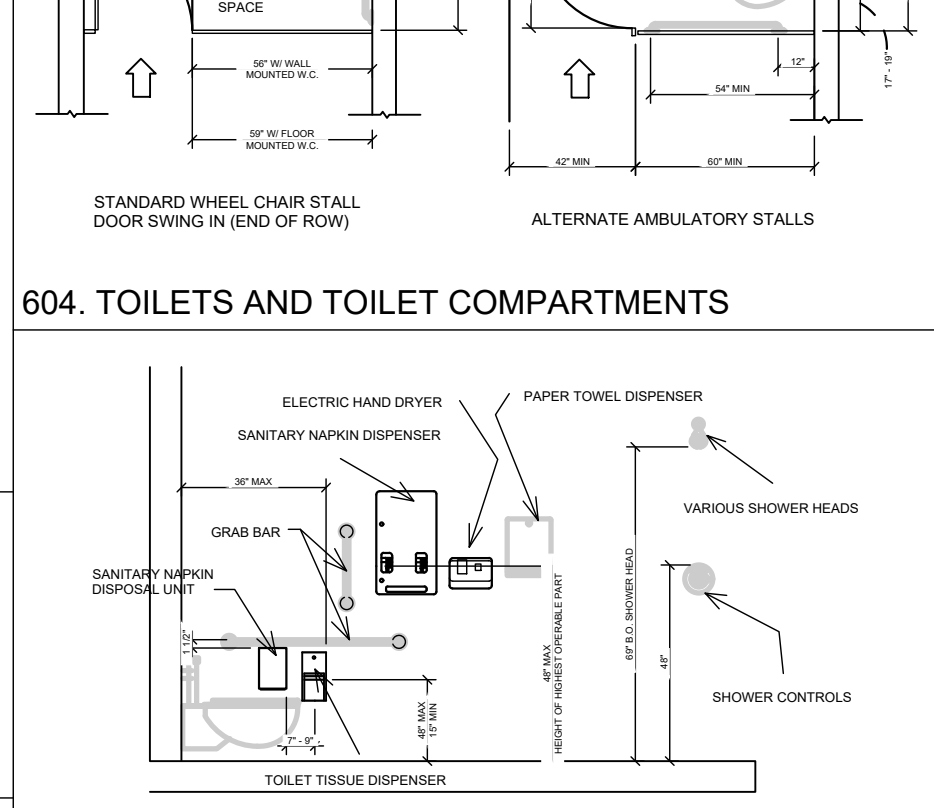
322. 602. DRINKING FOUNTAINS



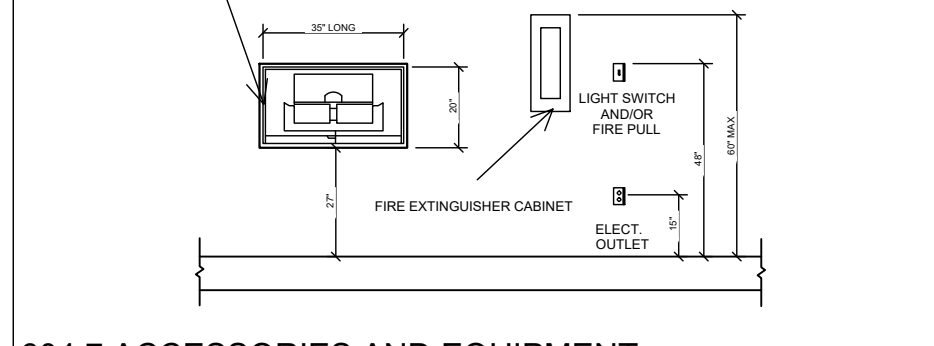
323. 604. TOILETS AND TOILET COMPARTMENTS



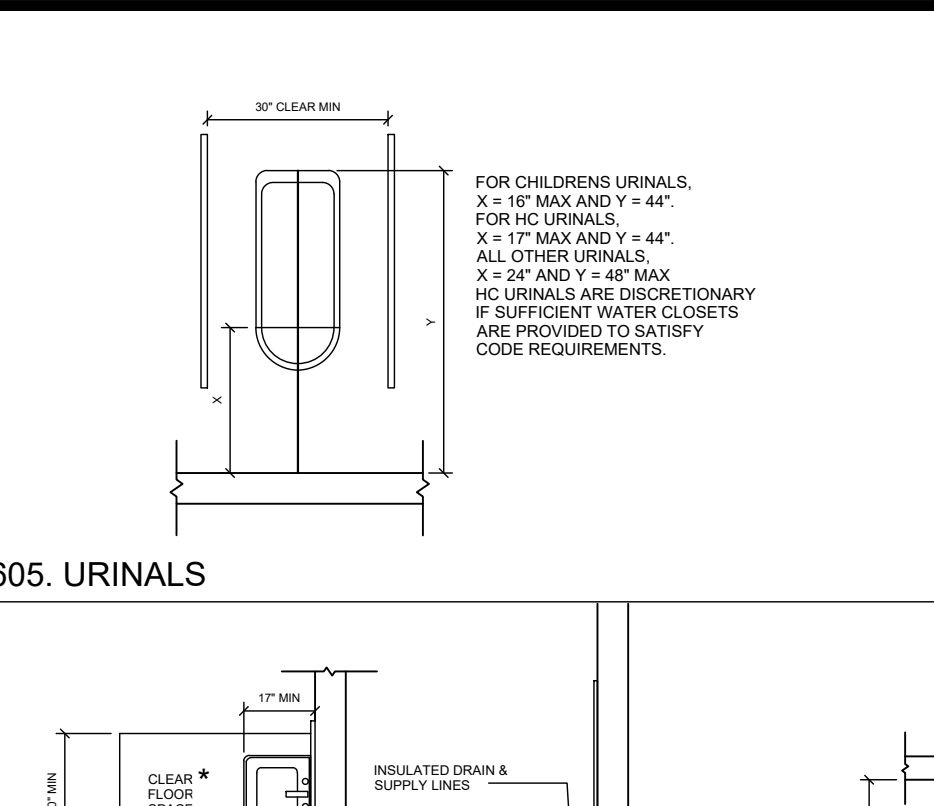
324. 604. TOILETS AND TOILET COMPARTMENTS



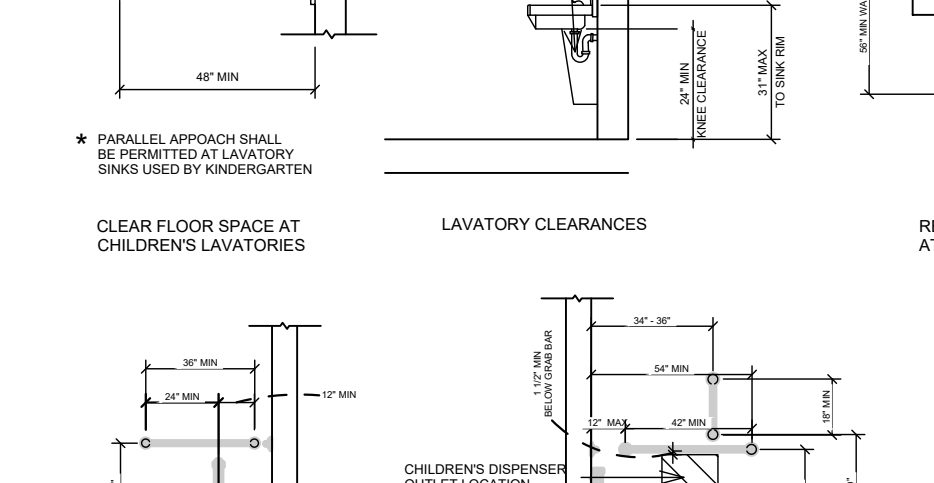
325. 604.7 ACCESSORIES AND EQUIPMENT



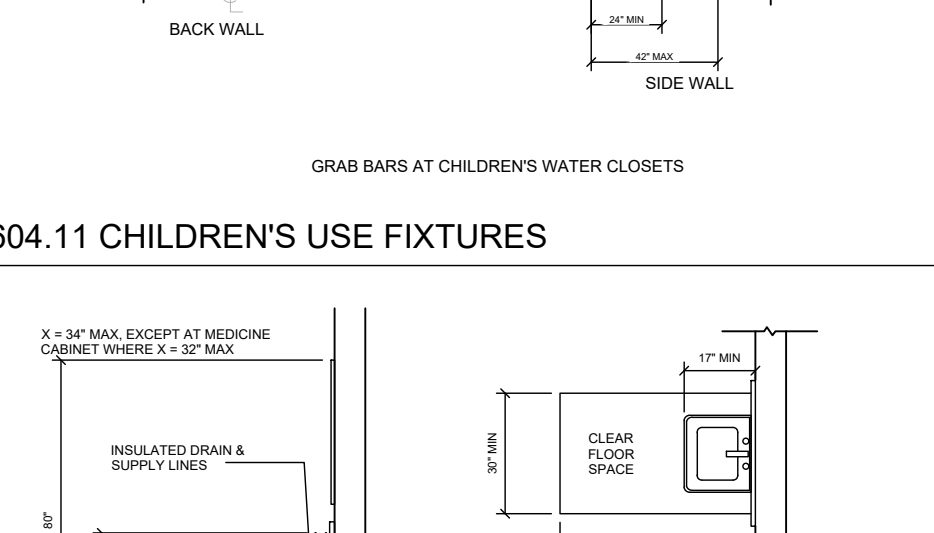
326. 604.7 ACCESSORIES AND EQUIPMENT



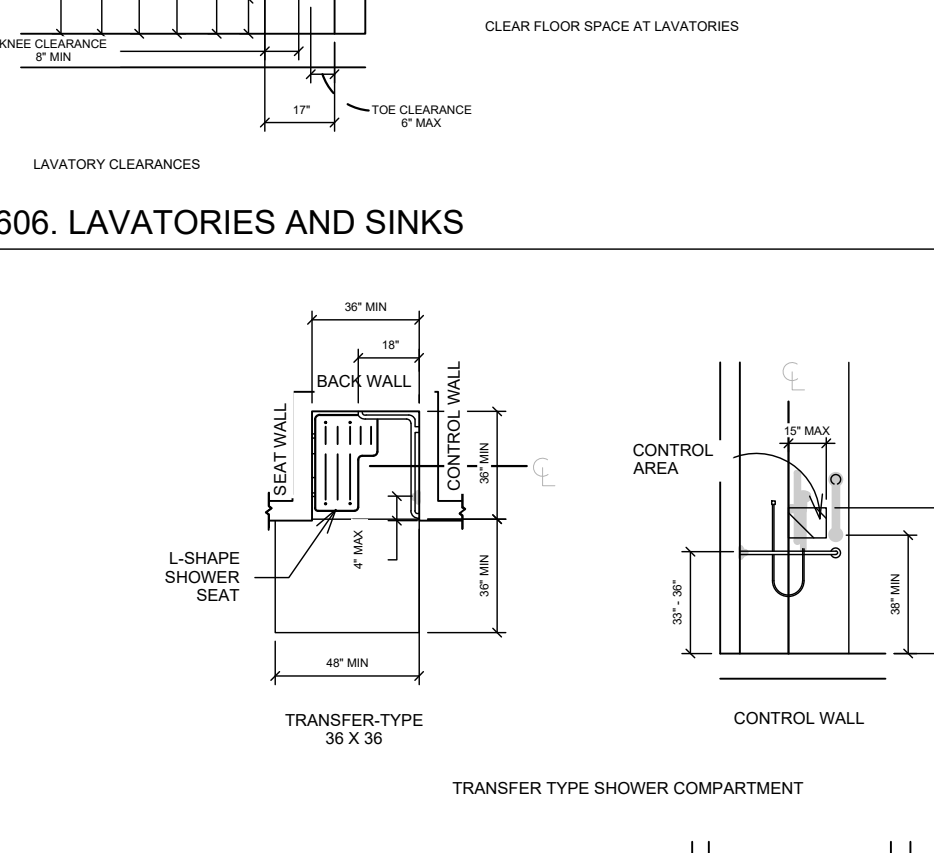
327. 605. URINALS



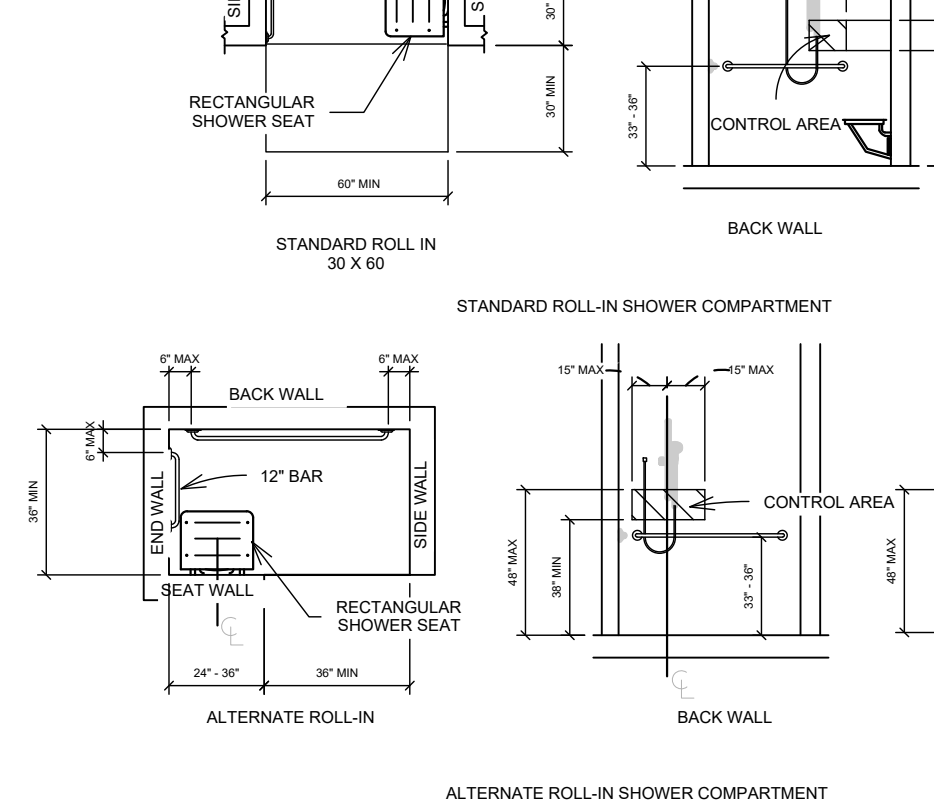
328. 606. LAVATORIES AND SINKS



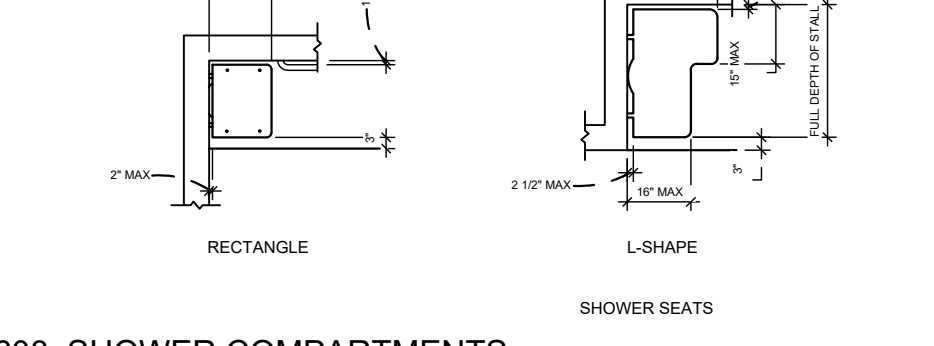
329. 606. LAVATORIES AND SINKS



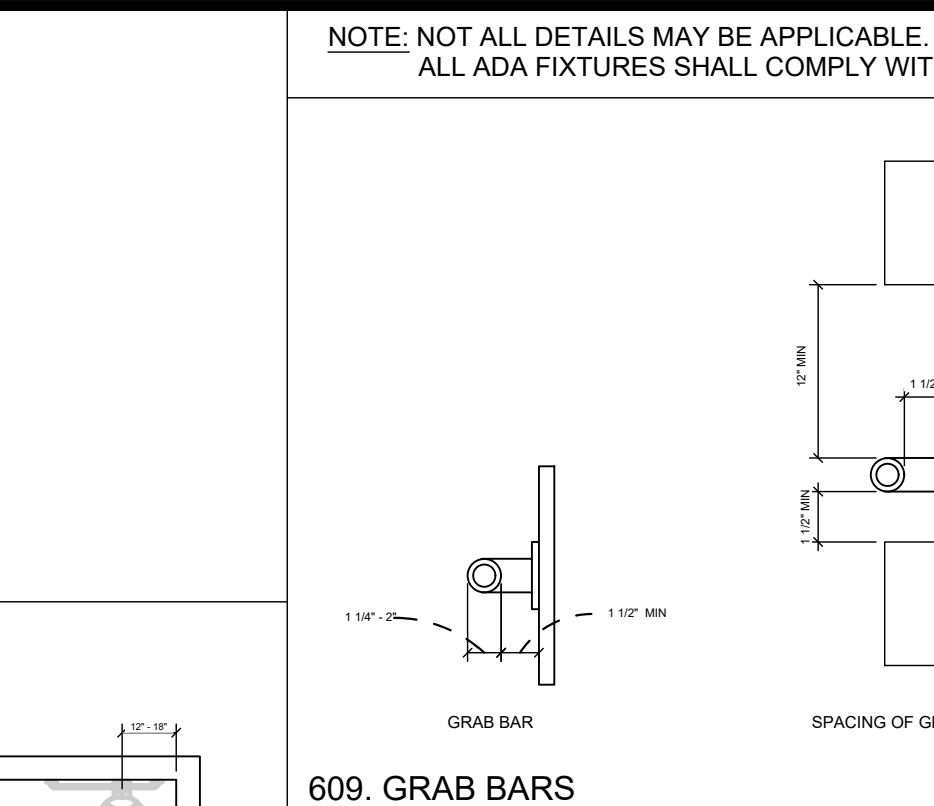
330. 606. LAVATORIES AND SINKS



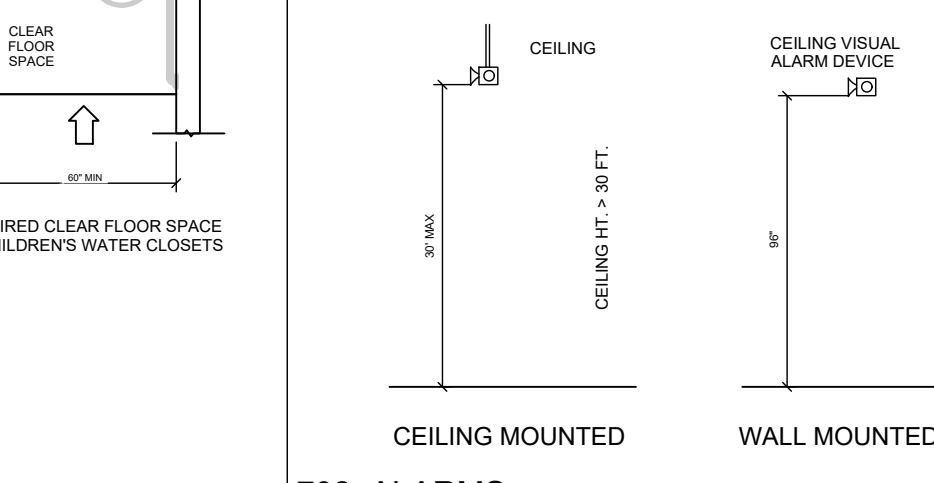
331. 608. SHOWER COMPARTMENTS



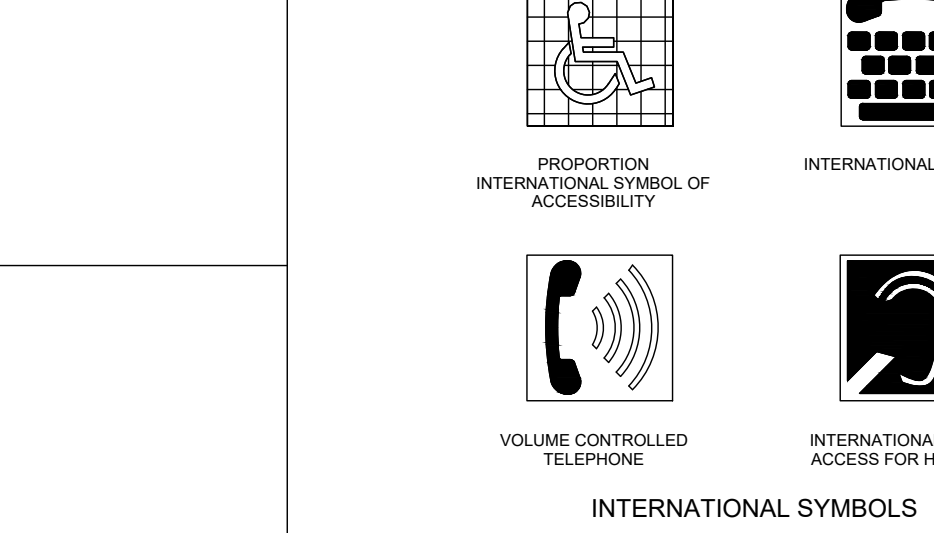
332. 608. SHOWER COMPARTMENTS



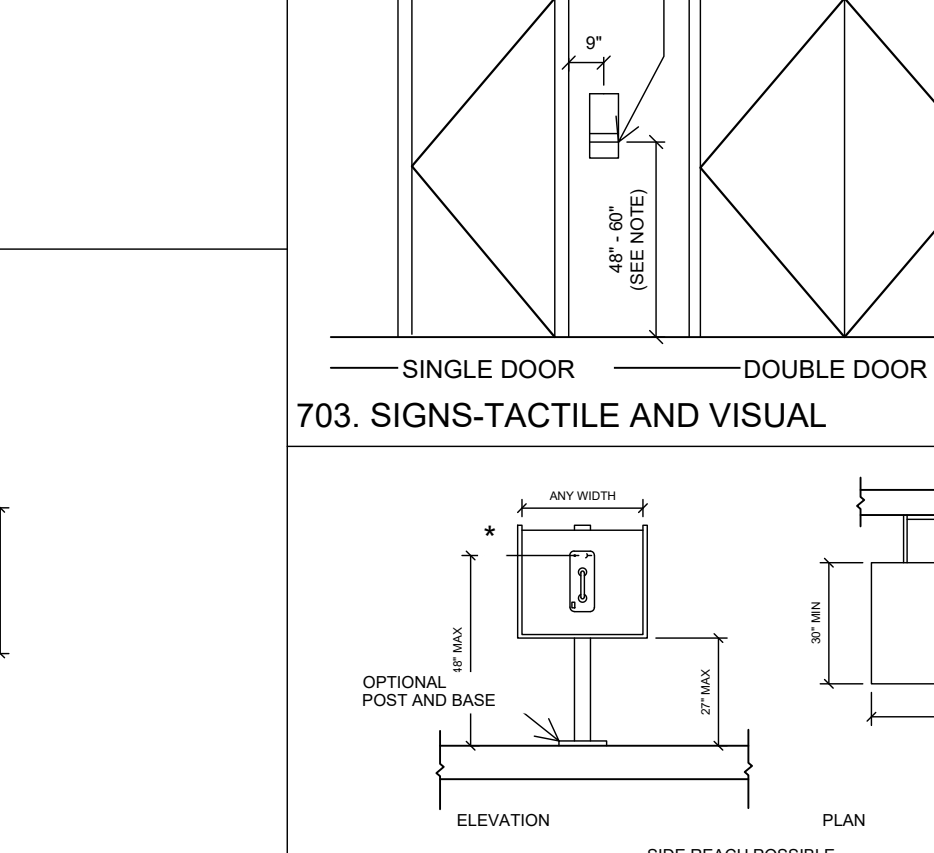
333. 702. ALARMS



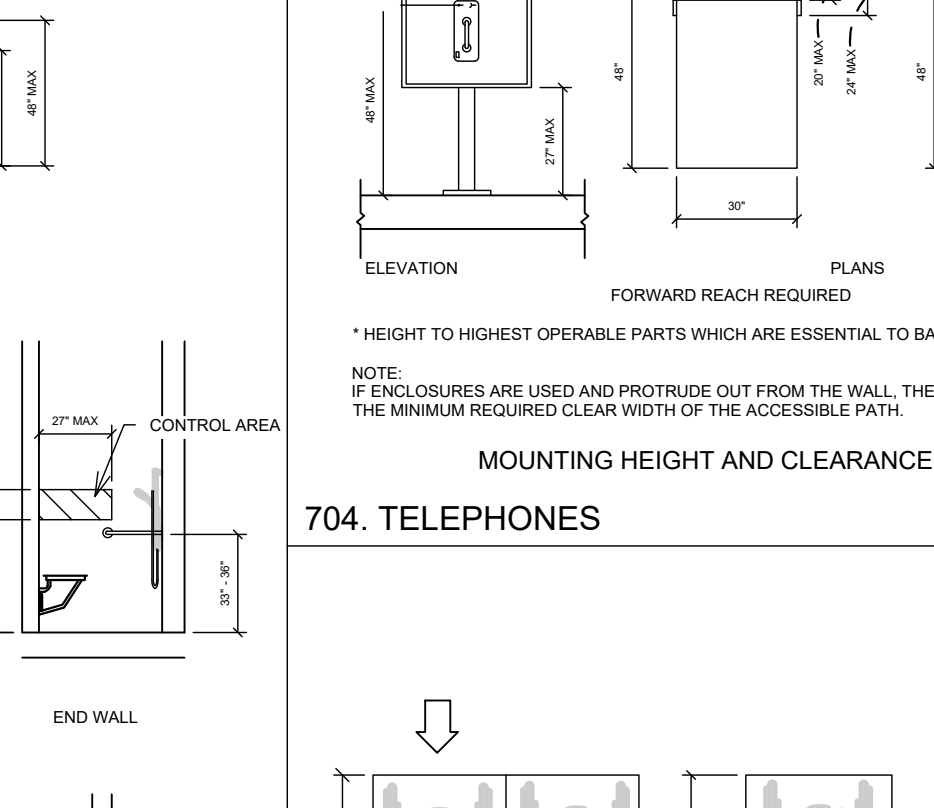
334. 703. SIGNS-TACTILE AND VISUAL



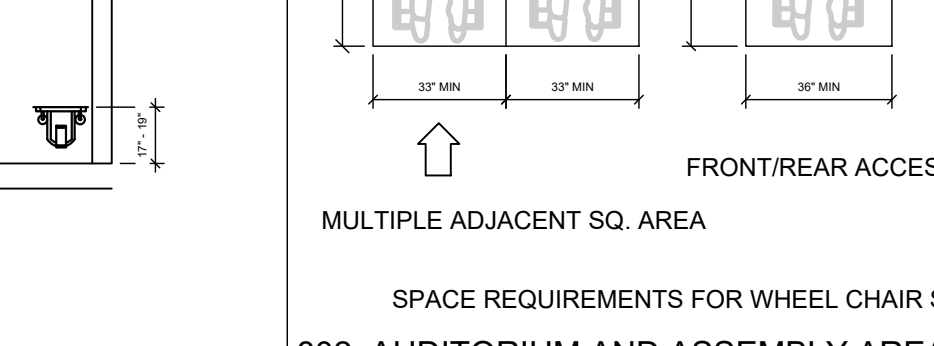
335. 703. SIGNS-TACTILE AND VISUAL



336. 704. TELEPHONES



337. 802. AUDITORIUM AND ASSEMBLY AREAS



338. 802. AUDITORIUM AND ASSEMBLY AREAS

NOTE: NOT ALL DETAILS MAY BE APPLICABLE. ALL ADA FIXTURES SHALL COMPLY WITH ANSI 117.1-2009

SEAL: 16/2018 JARED STUART FORSYTH LICENSED ARCHITECT

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DAVINCI ACADEMY - SUITES D, E, & F 850 WEST 350 NORTH KAYSVILLE, UT 84037

DATE: 01/14/2020 PROJECT: 16-153.07 DRAWN BY: WM

REVISIONS:

ADA DETAILS

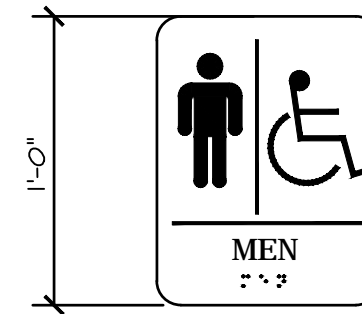
SHEET NUMBER: A501

SIGNS TO BE PLACED ON THE WALL NEAR THE LATCH SIDE OF THE DOOR

XXXX

LETTERS, MIN. 5/8" HIGH
RAISED MIN. 1/32"
SAN-SERIF UPPERCASE

SIGNS TO BE PLACED ON THE WALL NEAR THE LATCH SIDE OF THE DOOR



TACTILE CHARACTERS PER CURRENT ADA STANDARDS, TYP

SIGNS ON THE RESTROOM DOORS AT 60" A.F.F. FROM THE CENTER OF THE SIGN

TYPICAL ROOM SIGNS

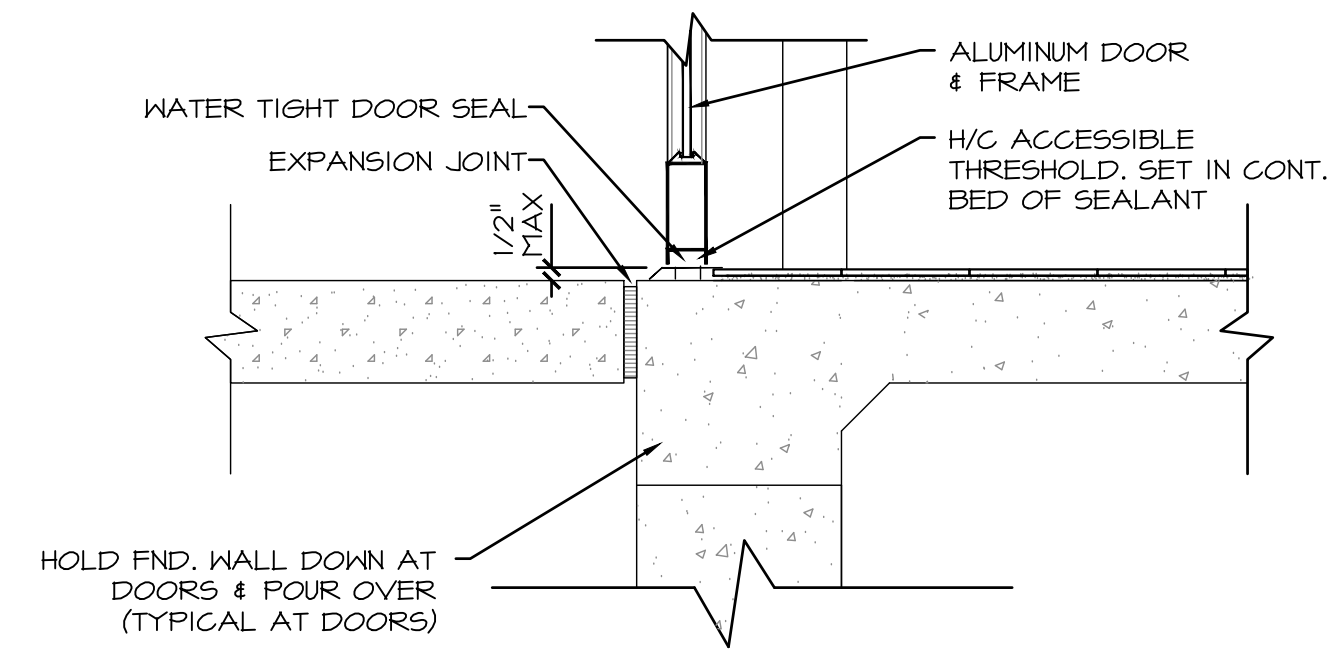
NOT TO SCALE

1
A502

REST ROOM SIGNS

NOT TO SCALE

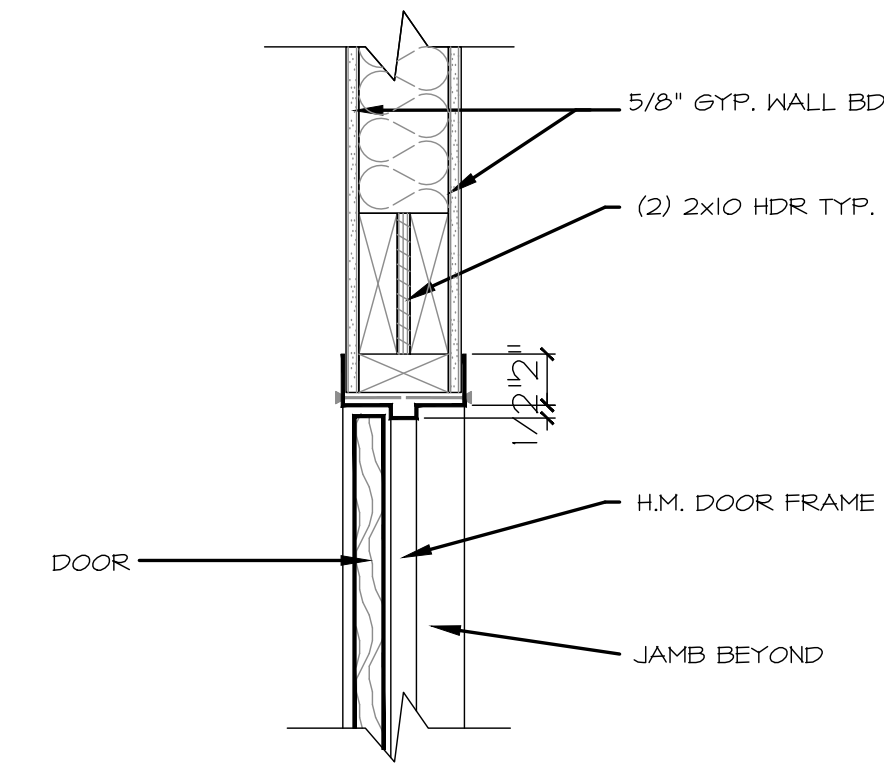
2
A502



THRESHOLD AT STOREFRONT

NOT TO SCALE

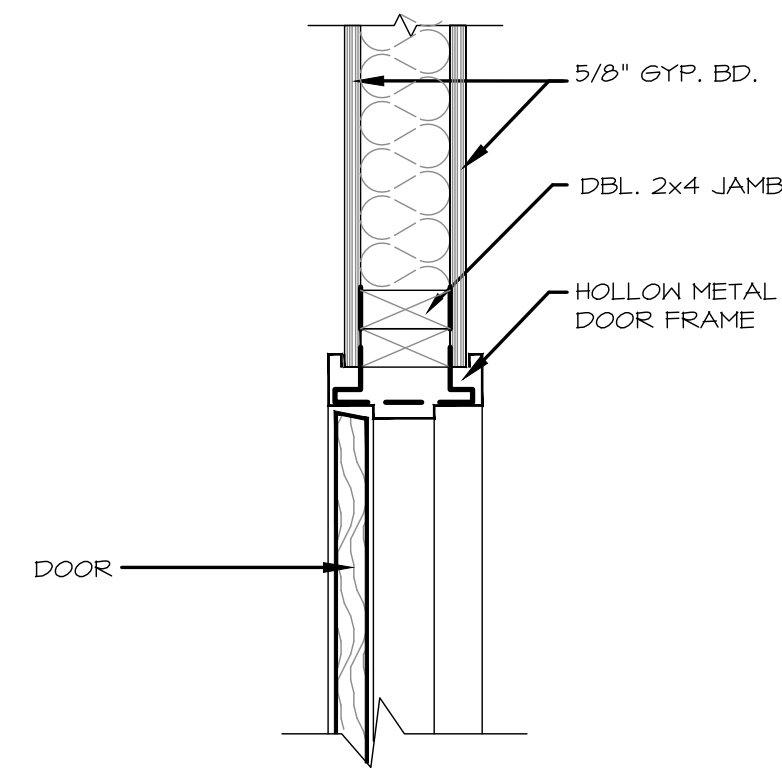
3
A502



INTERIOR HEAD DETAIL

NOT TO SCALE

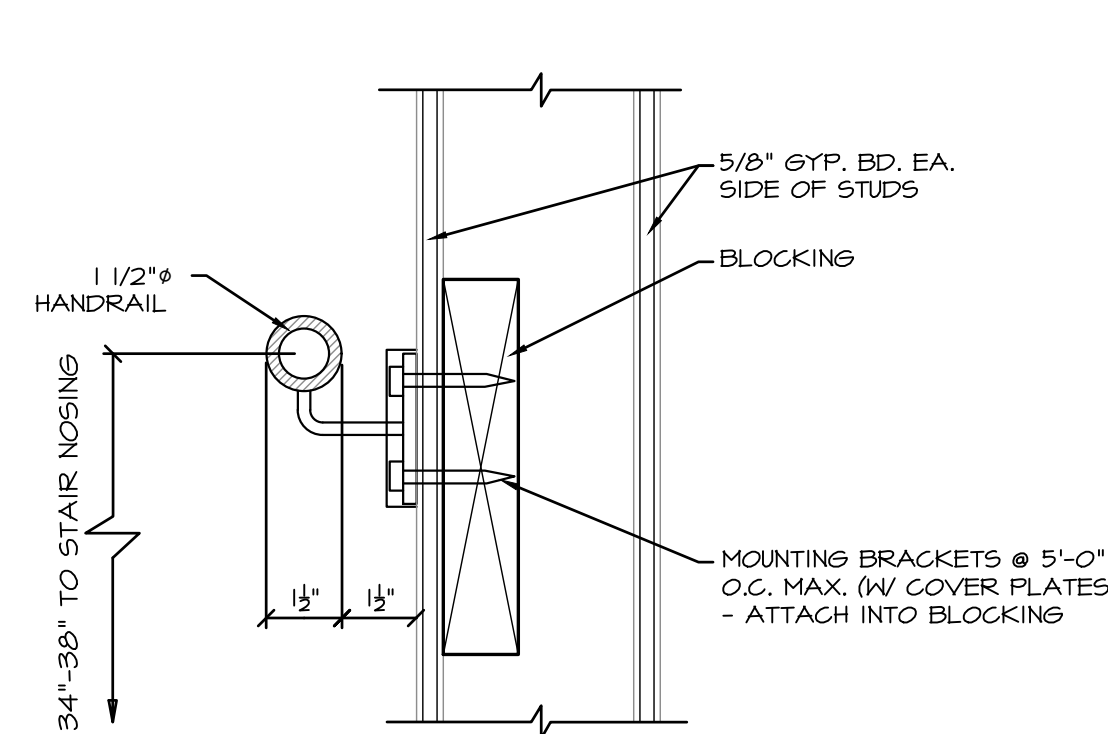
4
A502



INTERIOR JAMB DETAIL

NOT TO SCALE

5
A502



HANDRAIL DETAIL

NOT TO SCALE

6
A502

SAFETY GLASS LOCATIONS

NOTE:
NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK.

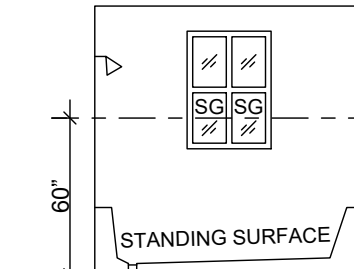
GLASS SCHEDULE

GLASS PRODUCT SCHEDULE FOR WALLS AND DOORS

		* - NOT ALLOWED AT SHOWER ENCLOSURES				
		ANNEALED	WIRED	TEMPERED	LAMINATED	FIRE-RATED
NP - NOT PERMITTED		NP	A	NP	NP	A
A - ACCEPTABLE		A	A	A	A	NR
NR - NOT RECOMMENDED		NR	NR	*	A	NR
FIRE -RATED	SAFETY NOT REQUIRED	NP	NP	NP	NP	A
	SAFETY REQUIRED	A	A	A	A	NR
NON-FIRE -RATED	SAFETY NOT REQUIRED	NP	NP	*	A	NR
	SAFETY REQUIRED	NP	NP	*	A	NR

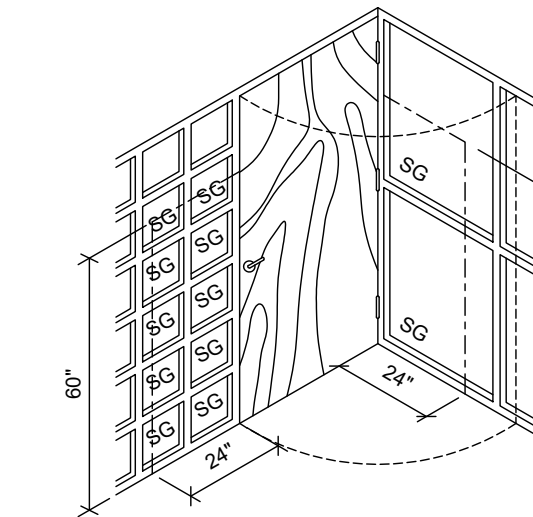
SAFETY GLAZING (SG) IS REQUIRED FOR

WET AREAS



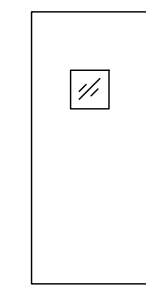
ANY GLASS AROUND THESE AREAS AT 60" OR LESS ABOVE THE STANDING SURFACE IS TO BE SAFETY GLASS

CLOSE PROXIMITY TO DOORS

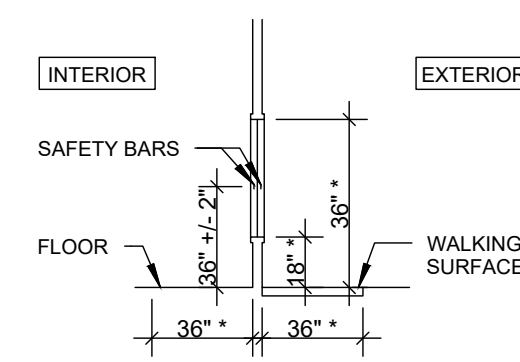


SAFETY GLASS IS TO BE USED FOR ALL DOORS AT HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATH TUBS OR SHOWERS

GLAZED OPENINGS IN DOORS

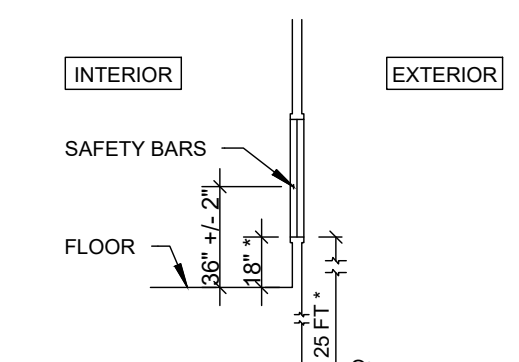


GLAZED OPENINGS IN PARTITIONS



SAFETY GLASS IS REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT:
* TOP OF GLAZING IS GREATER THAN / EQUAL 38" AFF
* AREA OF SINGLE PANE > 9 SF
* BOTTOM OF GLAZING IS LESS THAN / EQUAL 18" AFF
* WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES

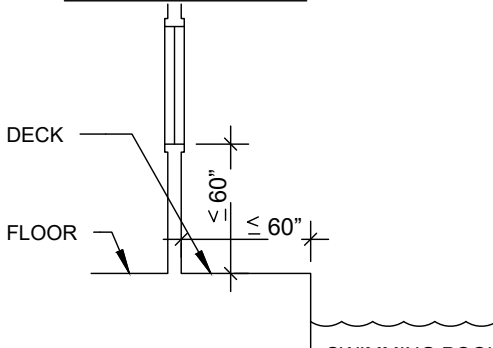
EXCEPTION:
GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 36" OF GLASS



SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING IS LESS THAN / EQUAL 18" AFF

EXCEPTION:
INTERIOR LITE DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED

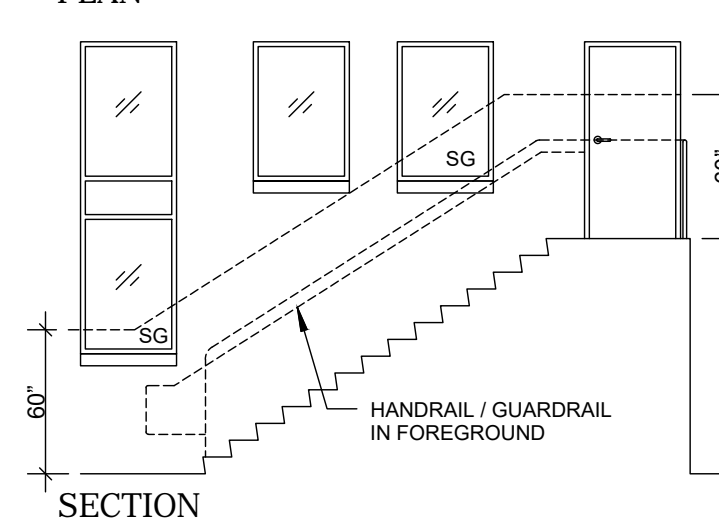
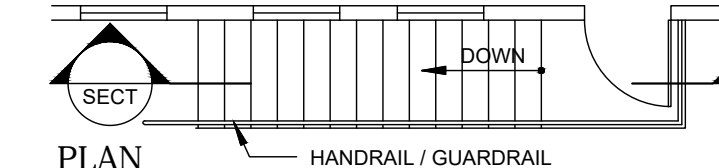
SWIMMING POOLS, SPAS, AND HOT TUBS



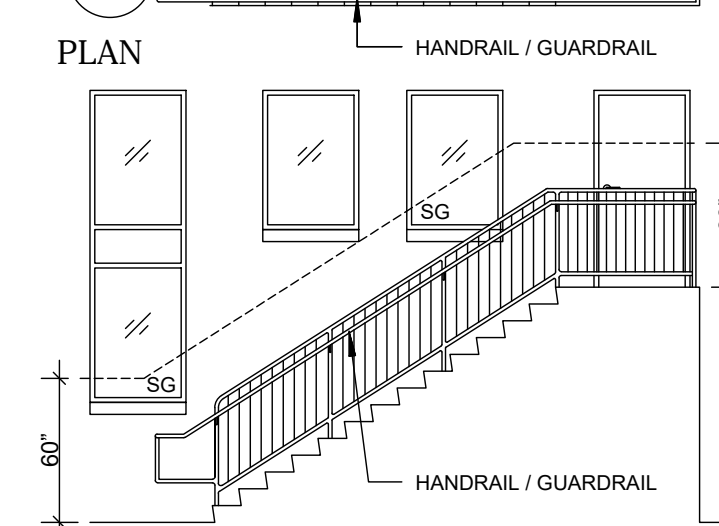
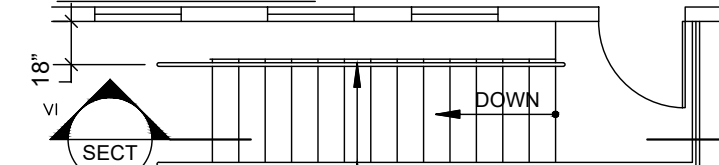
SAFETY GLASS IS REQUIRED IF THE BOTTOM OF GLASS IS LESS THAN / EQUAL 60" AFF OR DECK

AND
GLAZING IS LESS THAN / EQUAL 60" FROM EDGE OF POOL, HOT TUB OR SPA

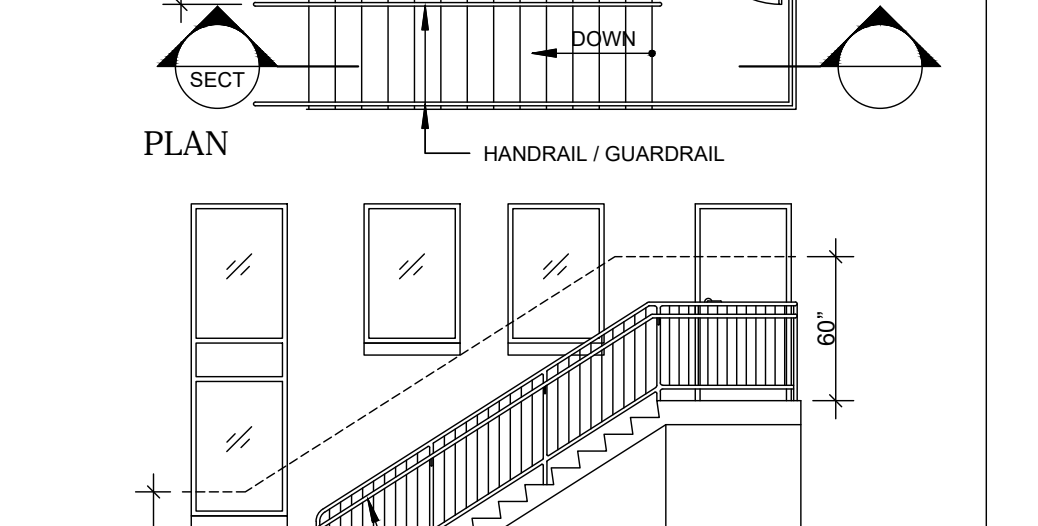
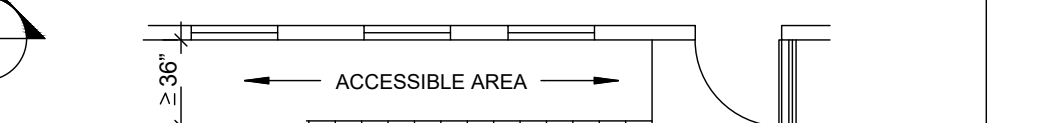
STAIRWAY (OR RAMP) AGAINST BUILDING



STAIRWAY (OR RAMP) WITHIN 18", OR LESS, FROM BUILDING



STAIRWAY (OR RAMP) WITH ACCESSIBLE AREA OF 36" OR MORE BETWEEN STAIR (OR RAMP) AND BUILDING



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LAYTON, UT 84041
PHONE: (801) 499-5054



DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM
REVISIONS:

WINDOW & DOOR DETAILS

SHEET NUMBER:
A502

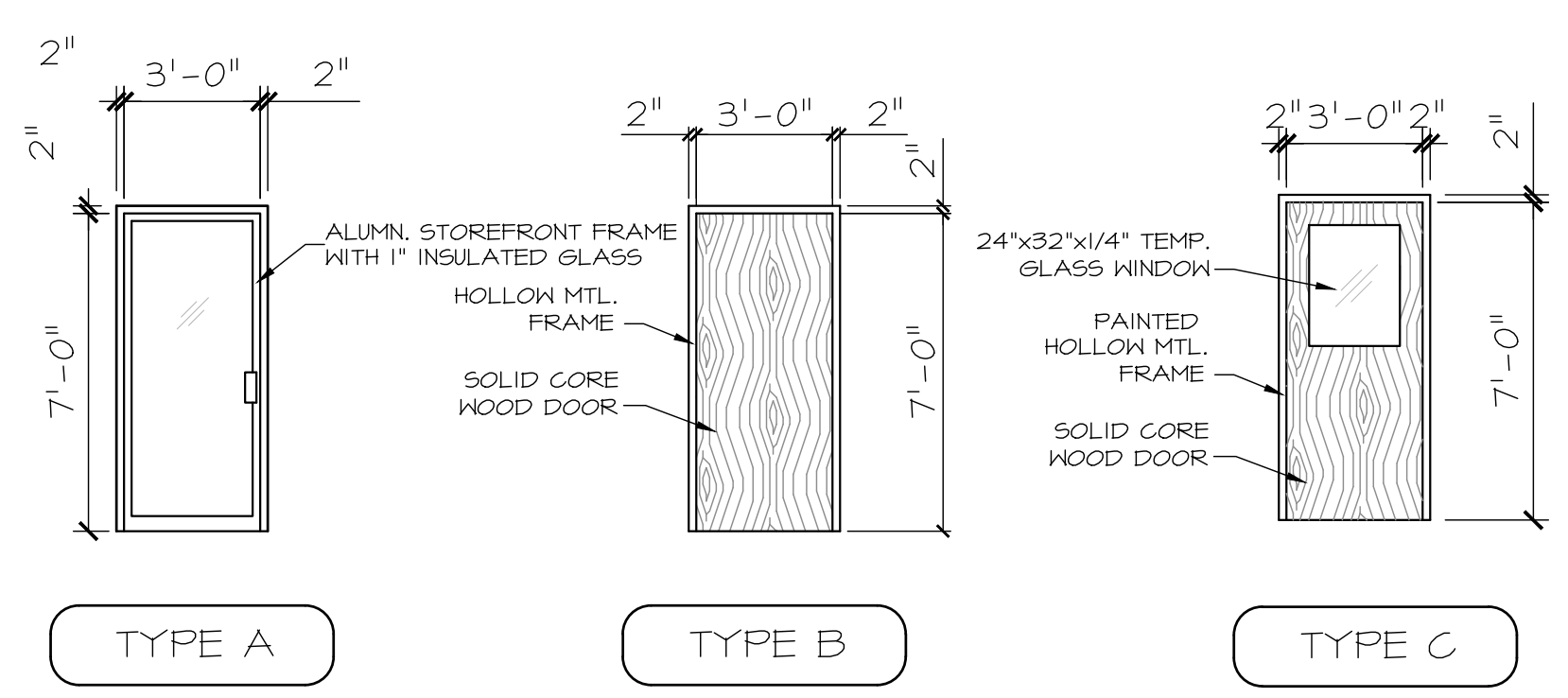
FINISH SCHEDULE		FLOOR	BASE	WALLS	CEILING							
		CARPET	NON-POROUS CERAMIC TILE	SEALED CONCRETE	RUBBER BASE	CERAMIC TILE	PAINTED G.W.B.	CMU	6" CERAMIC TILE WAINSCOT F.R.P. PANELS OVER 5/8" G.W.B.	PAINTED G.W.B.	2'x6" ACOUSTICAL PANEL	PAINTED EXPOSED CEILING
E100	MULTIPURPOSE ROOM											
F100	VESTIBULE											
F101	RESTROOM											
F102	RESTROOM											
F103	STORAGE											
F104	CLASSROOM											
F105	OFFICE											
F106	CLASSROOM											
F107	STAIR											
F107A	STORAGE											
F108	SICK											
F109	STORAGE											

FINISH SCHEDULE		FLOOR	BASE	WALLS	CEILING							
		CARPET	NON-POROUS CERAMIC TILE	SEALED CONCRETE	RUBBER BASE	CERAMIC TILE	PAINTED G.W.B.	CMU	6" CERAMIC TILE WAINSCOT F.R.P. PANELS OVER 5/8" G.W.B.	PAINTED G.W.B.	2'x6" ACOUSTICAL PANEL	PAINTED EXPOSED CEILING
F200	DOOR/DOR											
F201	CLASSROOM											
F202	CLASSROOM											
F203	JANITOR/CLOSET											
F204	CLASSROOM											
F205	RESTROOM											
F206	STORAGE											

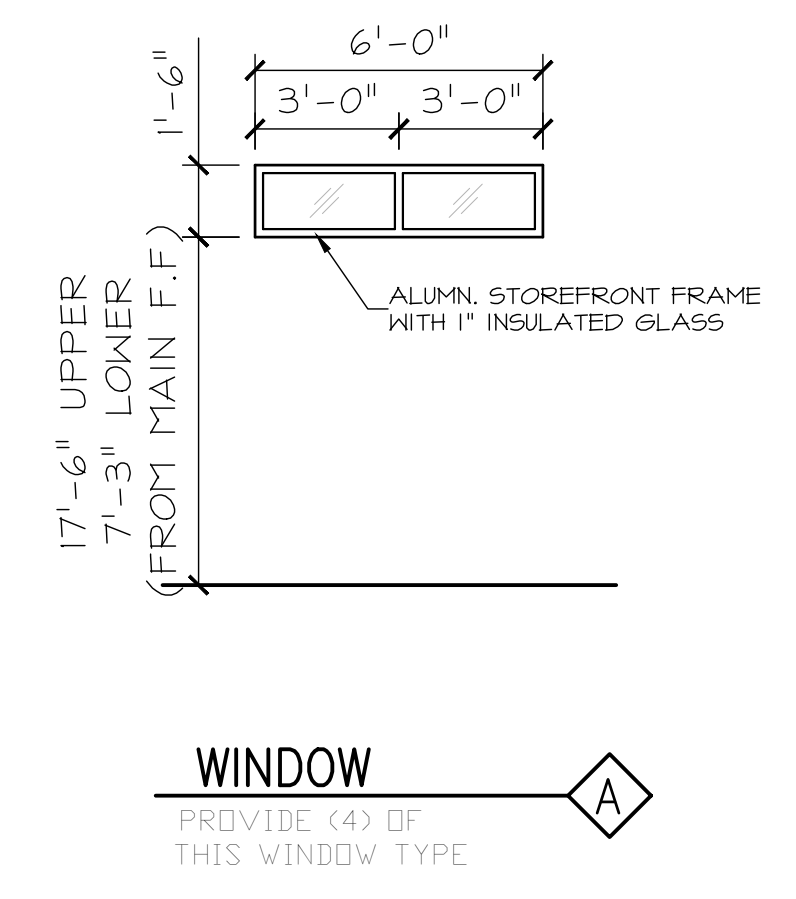
DOOR SCHEDULE							
DOOR NO.	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	THICK	TYPE	MATL.	MATERIAL	
F104	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	PANIC HARDWARE & AUTO CLOSER
F105	3'-0"	7'-0"	1 3/4"	B	WOOD	H.M.	PROVIDE LOCK & AUTO CLOSER
F106	3'-0"	7'-0"	1 3/4"	C	WOOD	H.M.	PROVIDE LOCK & AUTO CLOSER
F107	3'-0"	7'-0"	1 3/4"	B	WOOD	H.M.	PROVIDE LOCK
F108	3'-0"	7'-0"	1 3/4"	B	WOOD	H.M.	PROVIDE LOCK & AUTO CLOSER
F109	3'-0"	7'-0"	1 3/4"	B	ALUM.	H.M.	PANIC HARDWARE & AUTO CLOSER
F110	3'-0"	7'-0"	1 3/4"	B	ALUM.	H.M.	PANIC HARDWARE & AUTO CLOSER
F111	3'-0"	7'-0"	1 3/4"	B	ALUM.	H.M.	PANIC HARDWARE & AUTO CLOSER LOCKABLE FROM GYM SIDE

DOOR SCHEDULE							
DOOR NO.	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	THICK	TYPE	MATL.	MATERIAL	
F201	3'-0"	7'-0"	1 3/4"	C	ALUM.	ALUM.	PANIC HARDWARE & AUTO CLOSER
F202	3'-0"	7'-0"	1 3/4"	C	WOOD	H.M.	PROVIDE LOCK & AUTO CLOSER
F203	3'-0"	7'-0"	1 3/4"	B	WOOD	H.M.	PROVIDE LOCK & AUTO CLOSER
F204	3'-0"	7'-0"	1 3/4"	B	WOOD	H.M.	PROVIDE LOCK
F205	3'-0"	7'-0"	1 3/4"	B	WOOD	H.M.	PROVIDE LOCK & AUTO CLOSER
F206	3'-0"	7'-0"	1 3/4"	B	ALUM.	H.M.	PANIC HARDWARE & AUTO CLOSER

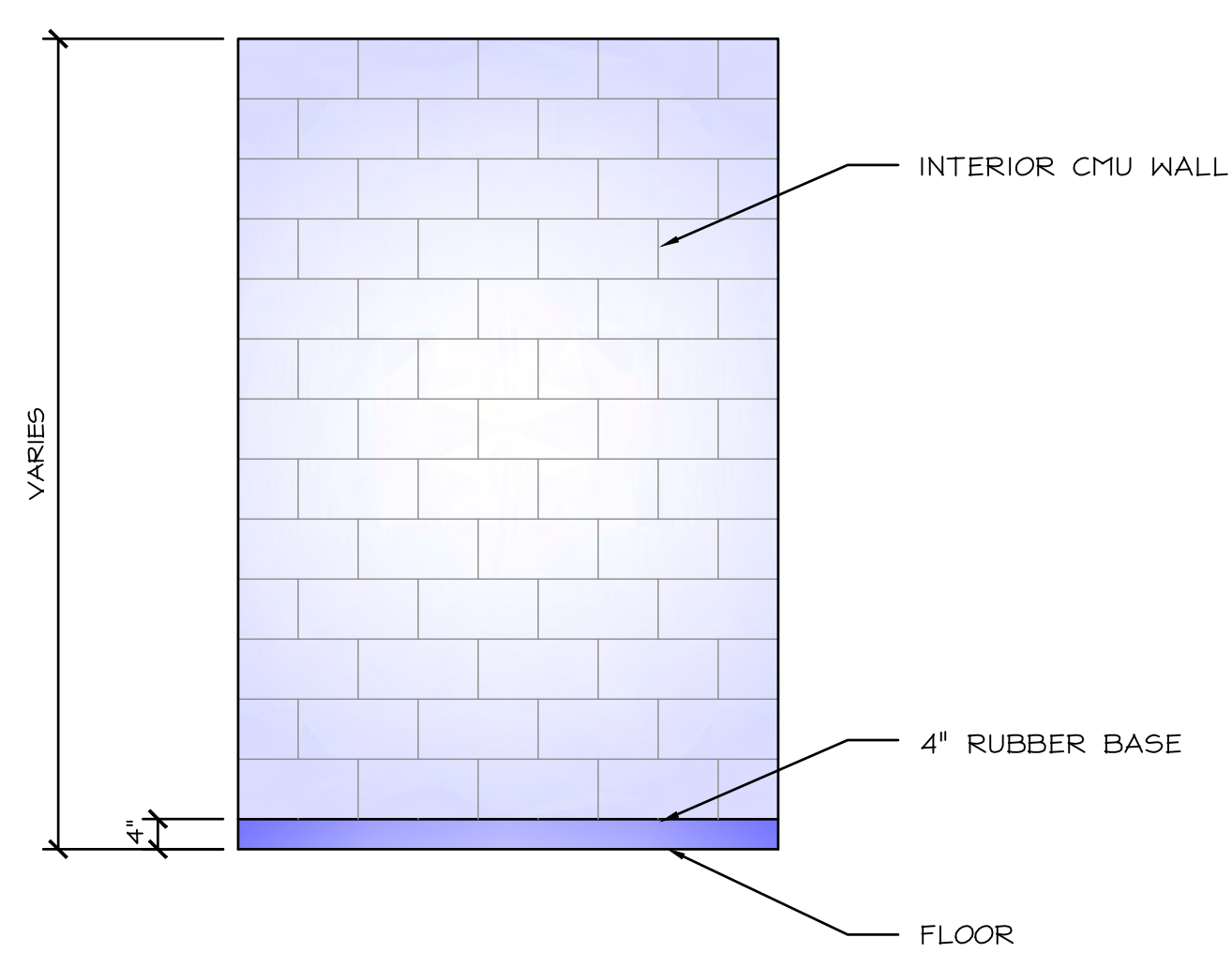
DOOR TYPES



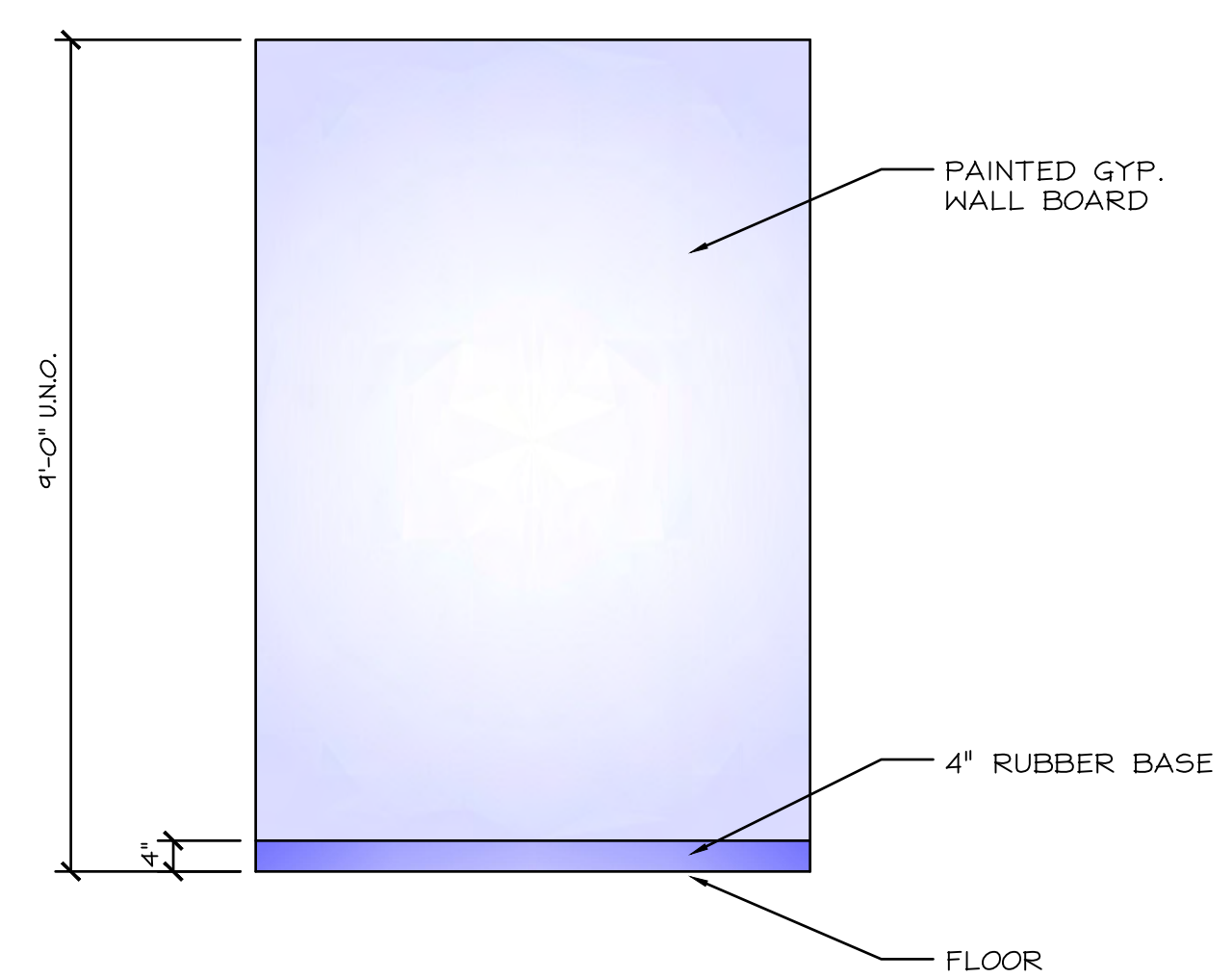
DOOR NOTES:
 1. DOOR HARDWARE TO COMPLY WITH CURRENT ADA & IBC STANDARDS
 2. LEVER TYPE HARDWARE ONLY



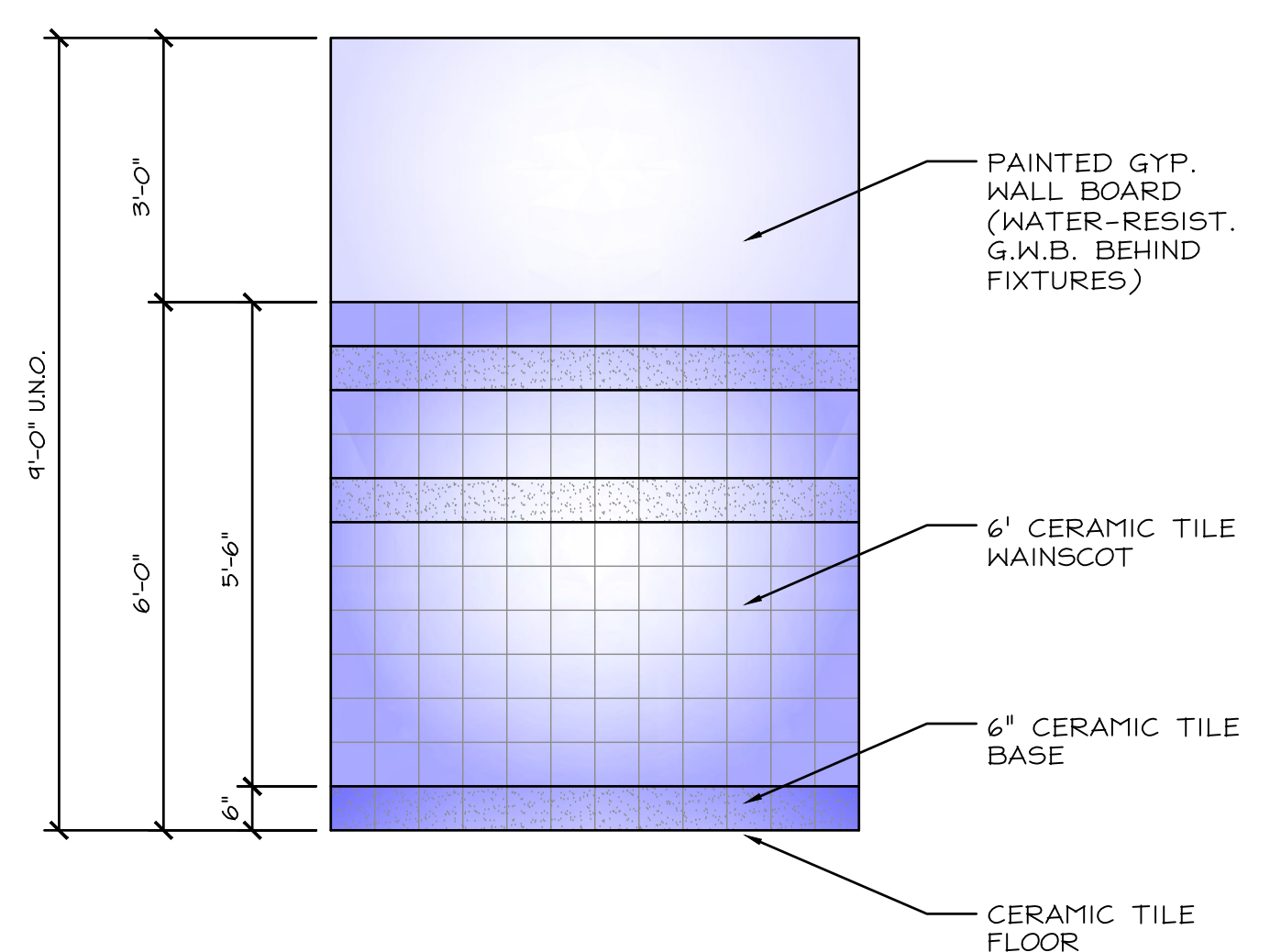
WINDOW NOTES:
 1. SEE SHEET A502 FOR WINDOW HEAD, JAMB, SILL & MULLION DETAILS



TYPICAL CMU WALLS
 NOT TO SCALE



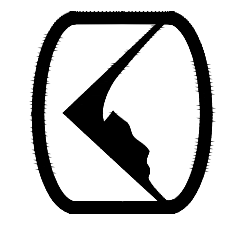
TYPICAL WALLS
 NOT TO SCALE



REST ROOM WALLS TYP.
 NOT TO SCALE



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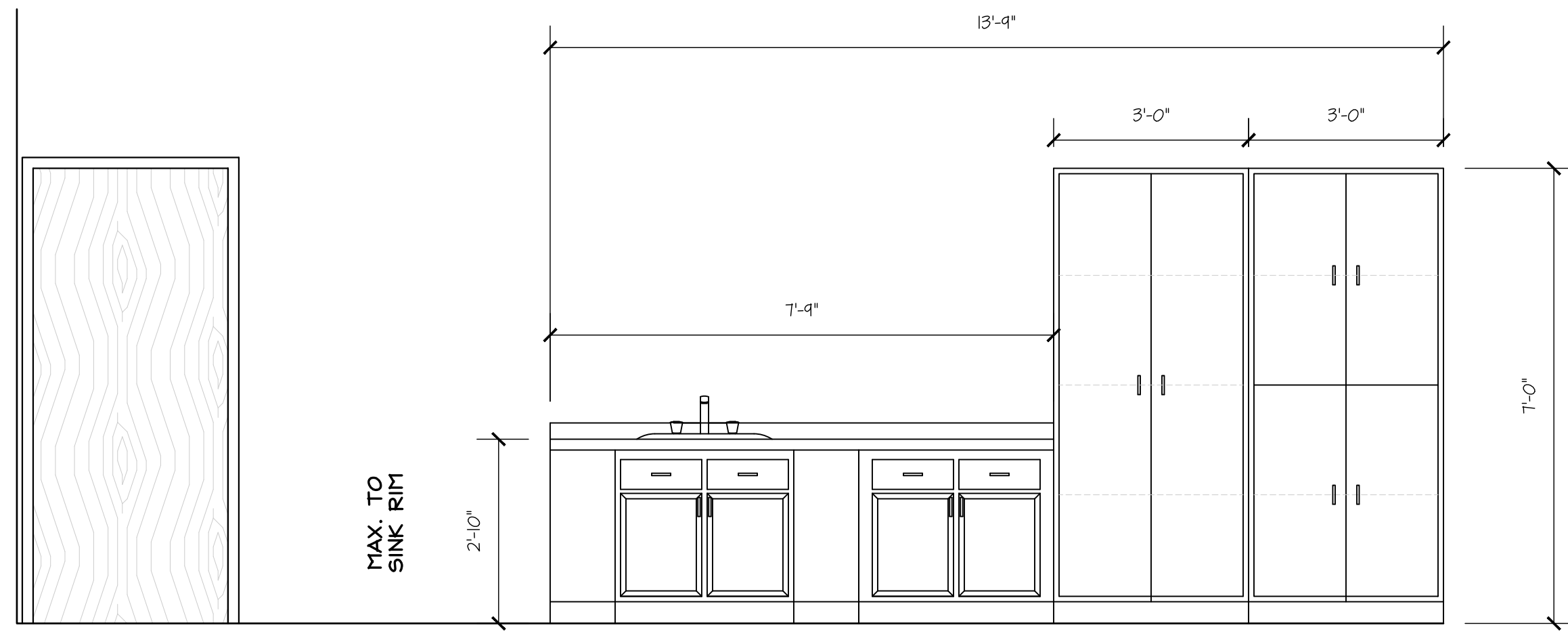
STRUCTURAL CIVIL SURVEY WWW.SILVERPEAKENG.COM

DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM
REVISIONS:

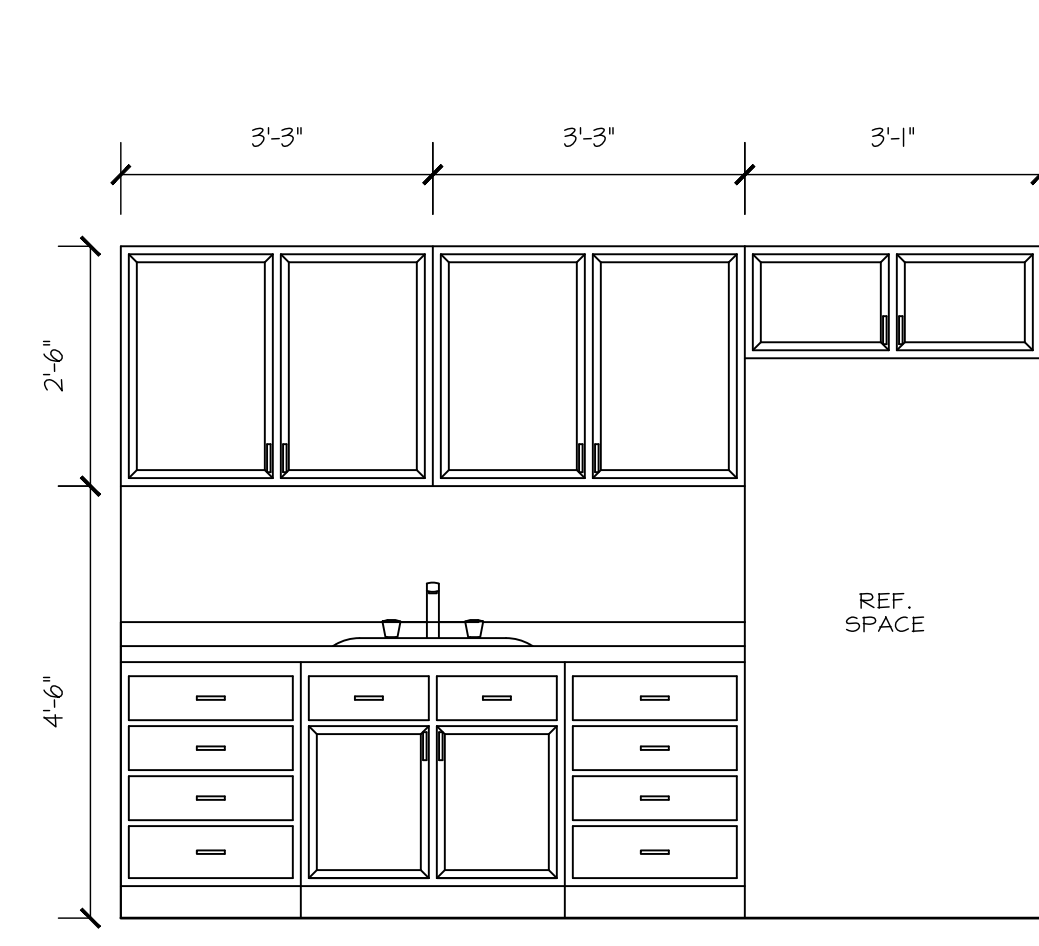
CABINET ELEVATIONS

SHEET NUMBER:
A701



CLASSROOM CABINETS TYP.
SCALE: 1/2" = 1'-0"
MAY BE REVERSED, SEE PLANS

1
A701



CLASSROOM CABINETS TYP.
SCALE: 1/2" = 1'-0"
MAY BE REVERSED, SEE PLANS

2
A701

FLOOR SHEATHING NOTES:

- FLOOR SHEATHING SHALL BE 3/4" T&G WAFFERBOARD GLUED & NAILED WITH 10d NAILS AT 6" O.C. AT ALL PANEL ENDS, SUPPORTED EDGES AND ALL BLOCKING; 10d AT 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. GLUE WITH GLUE CONFORMING TO AFG-01 ACCORDING TO APA SPECIFICATIONS.
- BLOCK JOISTS SOLID AT ALL BEARING POINTS.
- ALL HEADERS OVER DOOR & WINDOWS ARE (2) 2" x 10" U.N.O.
- PROVIDE SQUASH BLOCKING AT ALL POINT LOADS THROUGH FLOOR.

GENERAL FRAMING NOTES

- USE DOUGLAS FIR-LARCH #2 AND BETTER FOR ALL SAWN LUMBER BEAMS & STRUCTURAL COLUMNS.
- USE 1.9E (MIN) LVL BEAMS.
- CONNECT 4 PLY AND GREATER LVL BEAMS WITH (2) ROWS 1/2" THRU BOLTS @ 12" O.C. (SEE MANUFACTURERS SPECIFICATIONS)
- CARRY ALL COLUMN LOADS DOWN TO FOOTING OR FOUNDATION WALL.
- PROVIDE SOLID BLOCKING OR SQUASH BLOCKS IN JOIST SPACE AT ALL COLUMN LOCATIONS.
- ALL NOTES PERTAINING TO APPLIED LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD).

FLOOR BEAM SCHEDULE	
FB-1	(2) 2x10
FB-2	(2) 9 1/2" MICROLAM
FB-3	(2) 11 7/8" MICROLAM

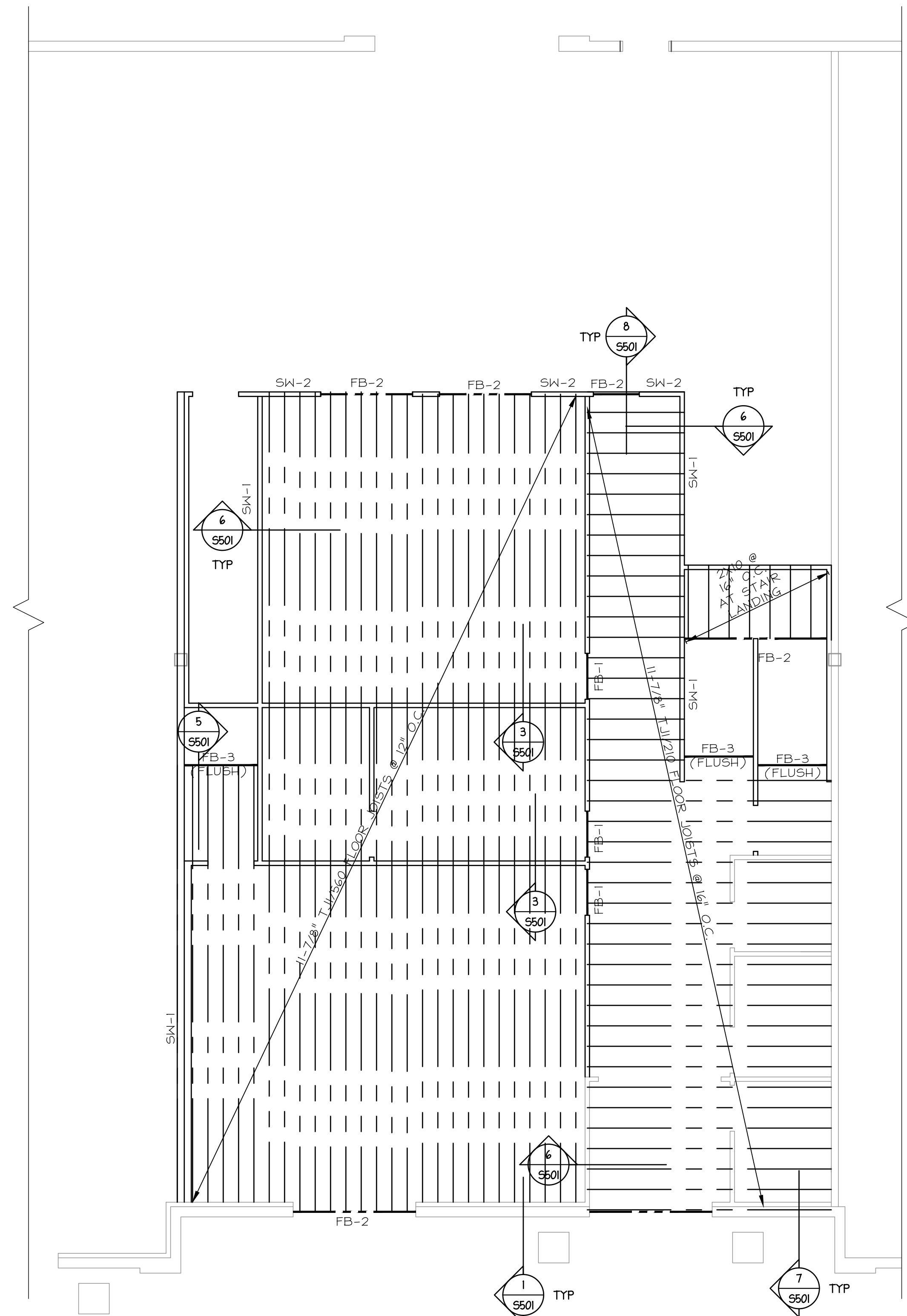
NOTE: SEE DETAIL 2/5501 FOR TYPICAL BEAM CONNECTIONS OVER 6'-0" IN LENGTH.

SHEARWALL SCHEDULE

MARK	SHEATHING	FASTENER REQ'S		ANCHOR BOLTS		SILL PLATE	NOTES
		EDGE	FIELD	DIAMETER	SPACING		
SW-1	5/8" @ 16" O.C. ONE SIDE MIN.	#6 SCREWS @ 8" O.C.	#6 SCREWS @ 8" O.C.	1/2"	32" O.C.	2 x	4, 5
SW-2	7/16" OSB ONE SIDE	Ød @ 6" O.C.	Ød @ 12" O.C.	1/2"	32" O.C.	2 x	1, 2, 3, 4, 5

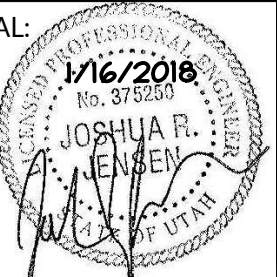
NOTES:

- APPLY 7/16" APA OSB OVER DOUGLAS FIR OR SOUTHERN PINE FRAMING SPACED @ 16" O.C.
- NAIL OR STAPLE SHEATHING ALONG INTERMEDIATE STUDS @ 12" O.C.
- BLOCK ALL PANEL EDGES
- PROVIDE 3" x 3" x 1/4" PLATE WASHERS ON ANCHOR BOLTS (Typical).
- ALL SHEATHING SHALL EXTEND CONTINUOUS FROM SILL PLATE TO ROOF OR FLOOR SHEATHING.

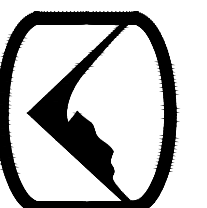


**SUITES D, E, & F
FLOOR FRAMING PLAN**
SCALE: 3/16" = 1'-0"

1
S111



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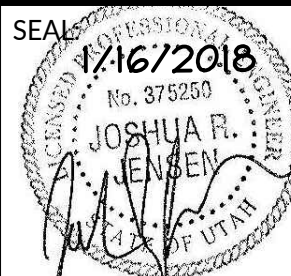
DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM

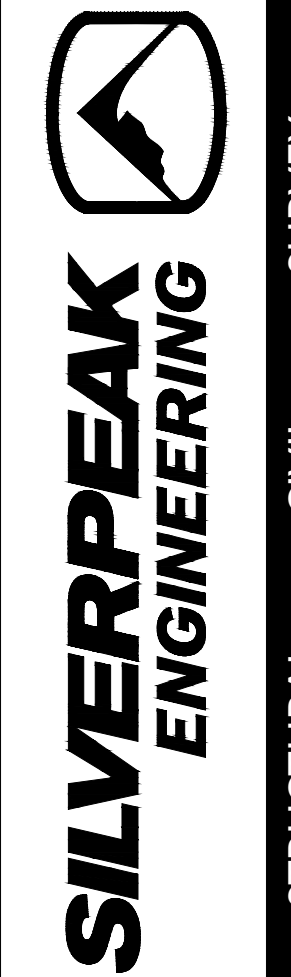
REVISIONS:

SUITES D, E, & F
FLOOR FRAMING
PLAN

SHEET NUMBER:
S111



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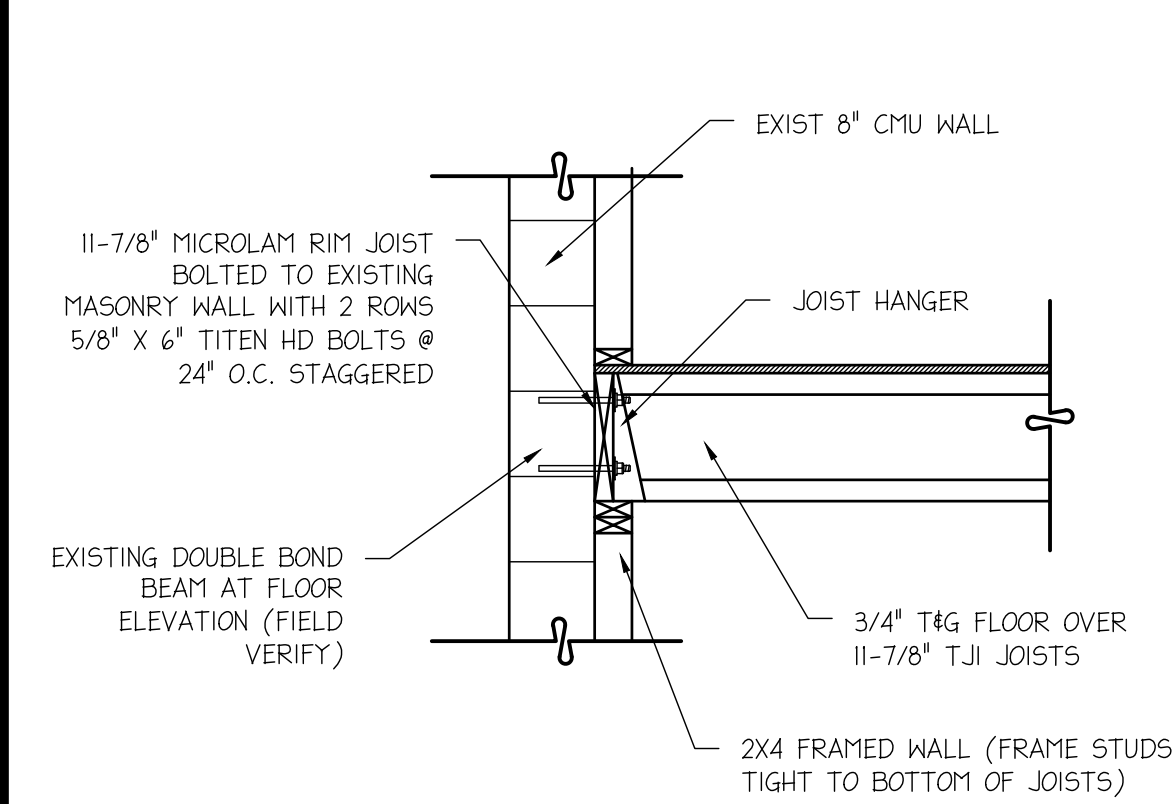
DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

DATE: 01/14/2020
PROJECT: 16-153.07
DRAWN BY: WM

REVISIONS:

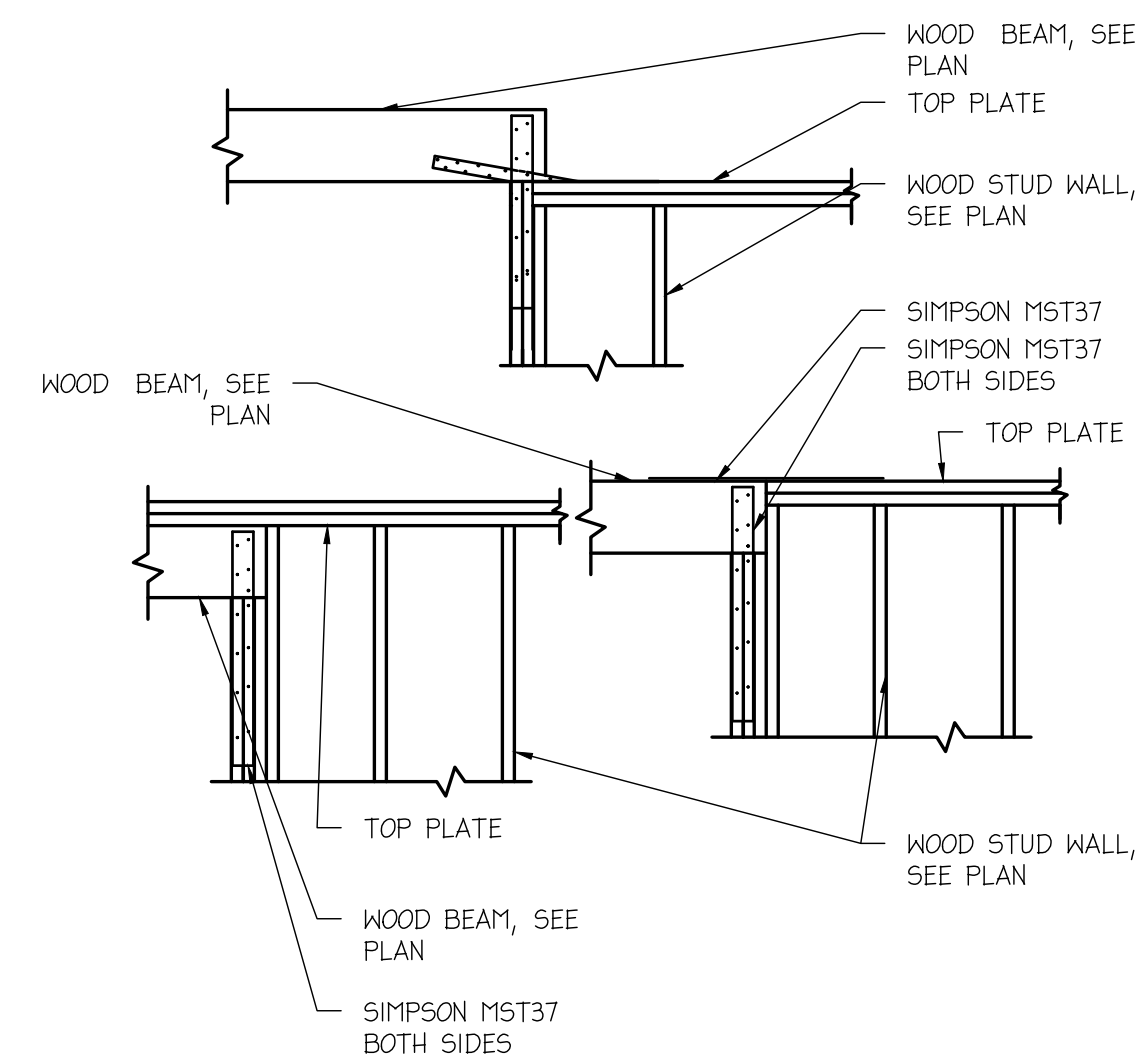
SUITES D, E, & F
STRUCTURAL
DETAILS

SHEET NUMBER:
S501



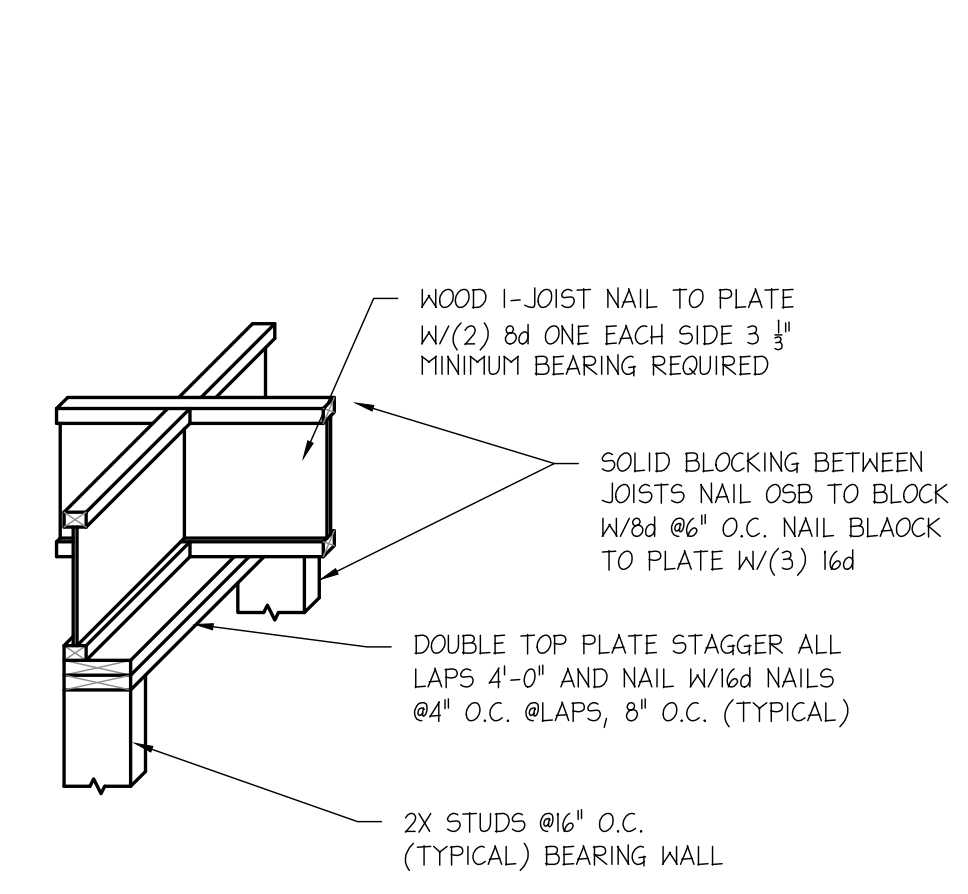
FLOOR CONNECTION TO FRONT WALL

1
S501



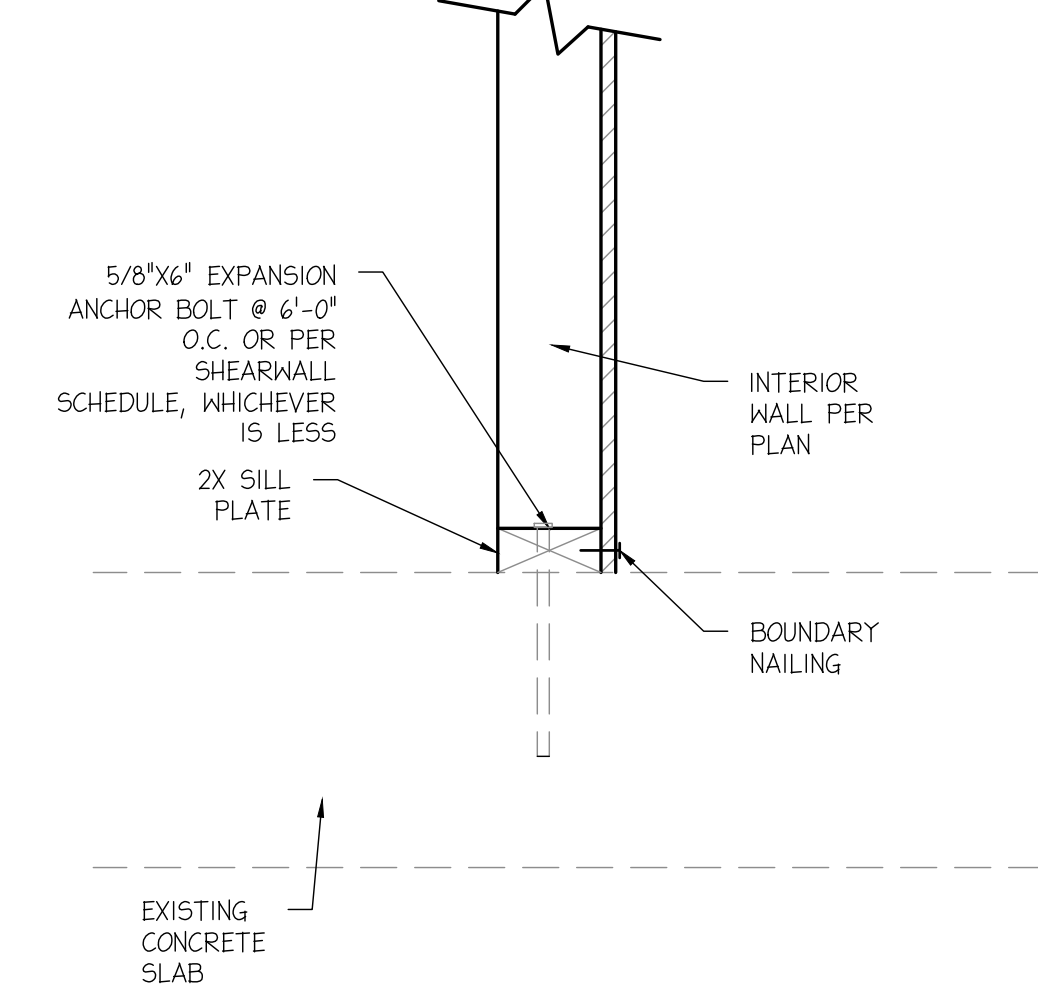
BEAM CONNECTIONS

2
S501



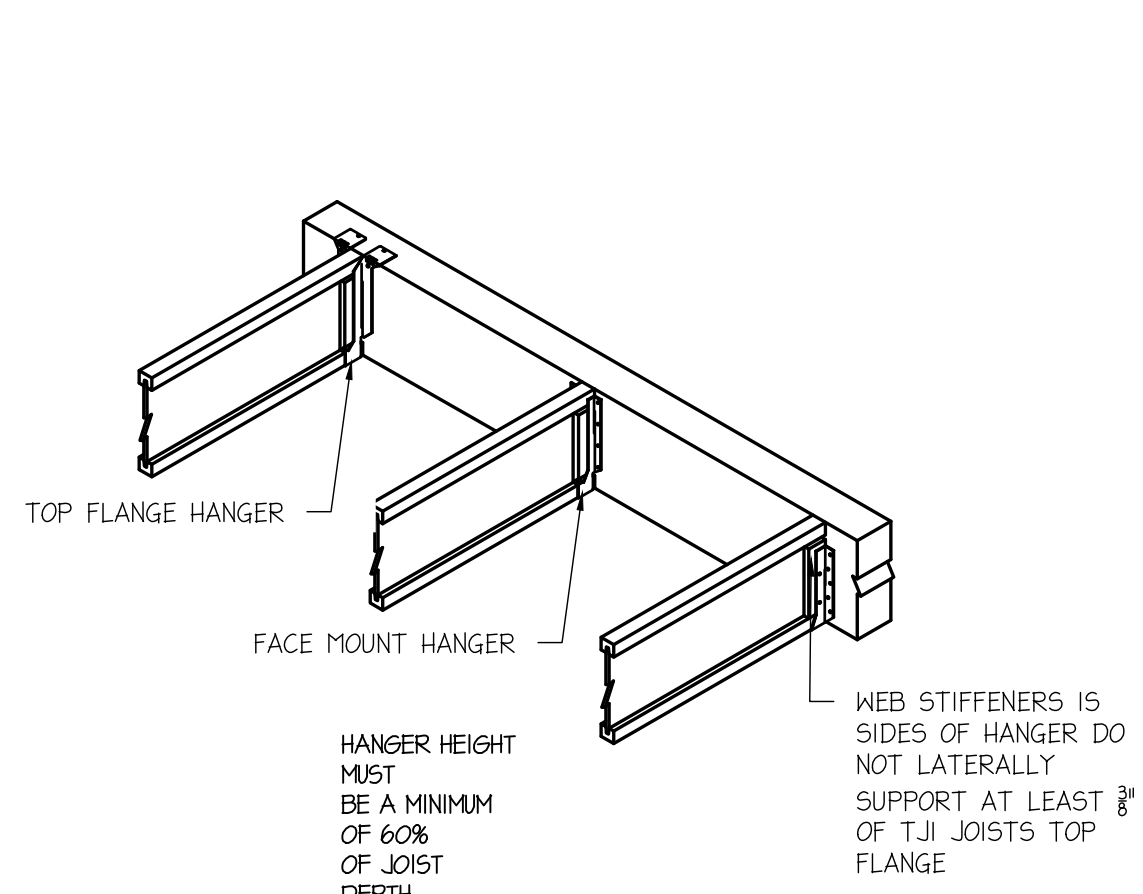
WOOD I-JOIST DETAIL

3
S501



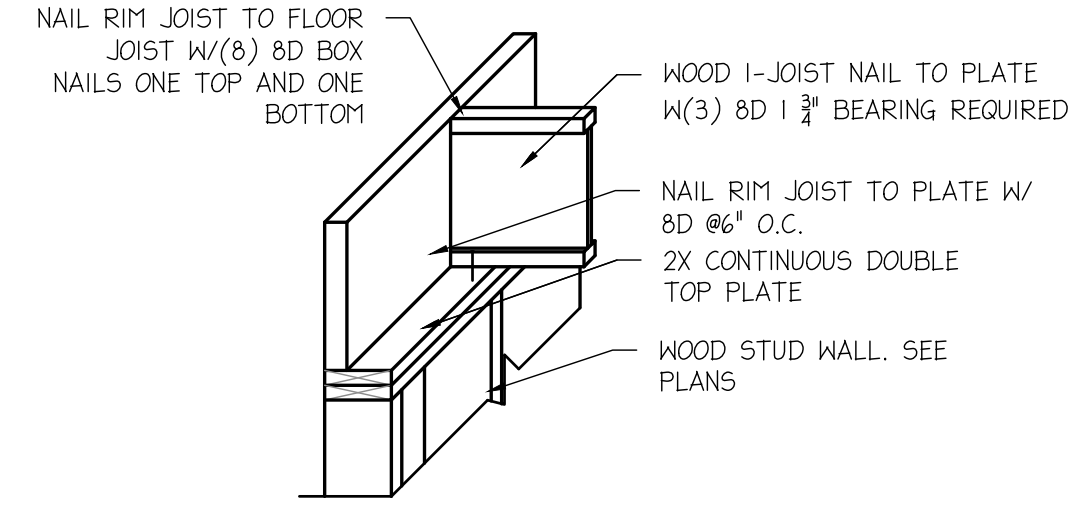
INTERIOR BEARING WALL CONNECTION

4
S501



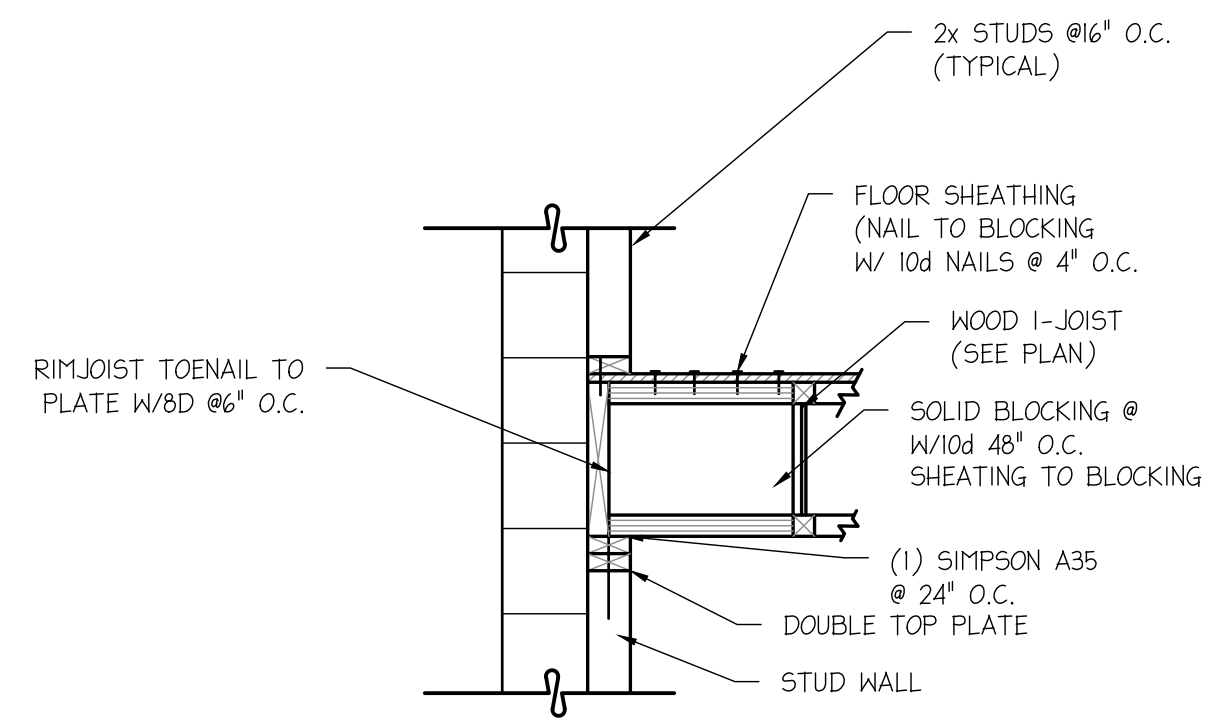
FLUSH BEAM CONNECTION DETAIL

5
S501



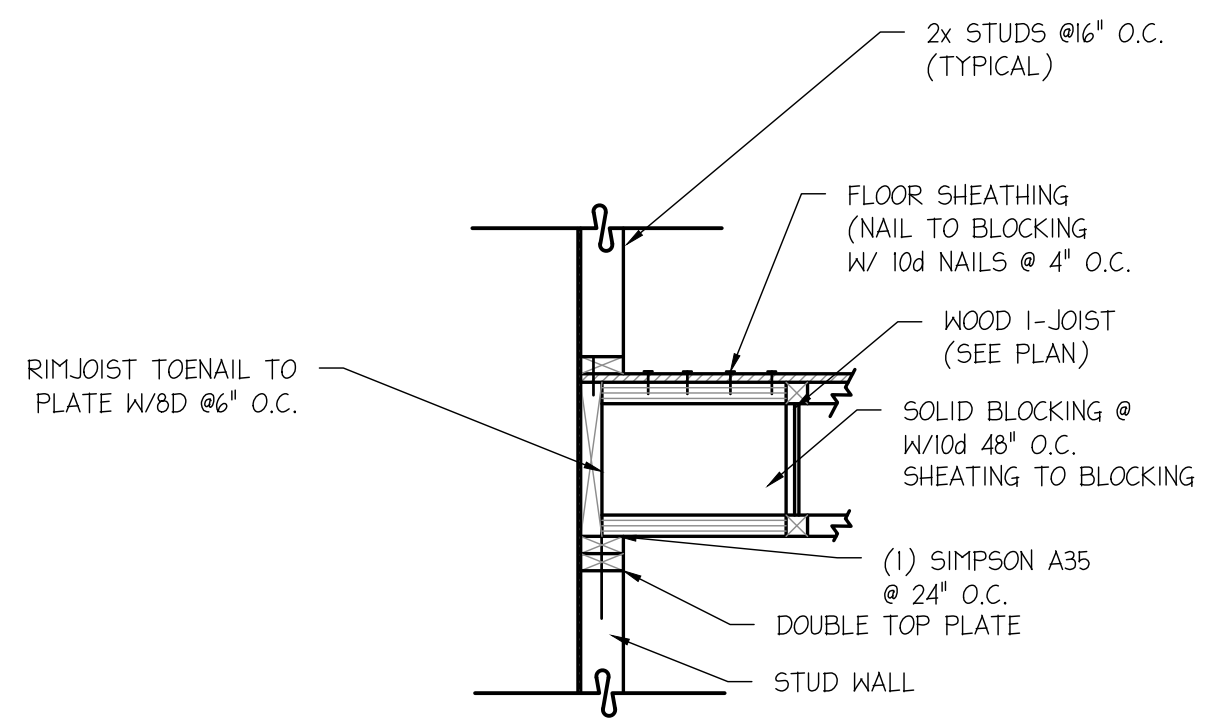
WOOD I-JOIST DETAIL

6
S501



WOOD I-JOIST DETAIL

7
S501



WOOD I-JOIST DETAIL

8
S501

ELECTRICAL SYMBOLS

Table containing electrical symbols, descriptions, mounting heights, and categories such as Electrical Wiring, Lighting Control, Audio / Video, Electrical Power, Electrical Connections, Electrical Distribution, Electrical Devices, and Reference Symbols.

ABBREVIATIONS

Table of abbreviations for electrical symbols, including terms like AFF ABOVE FINISHED FLOOR, AWP ARC FAULT PROTECTOR, and GND GROUND.

* THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

GENERAL NOTES

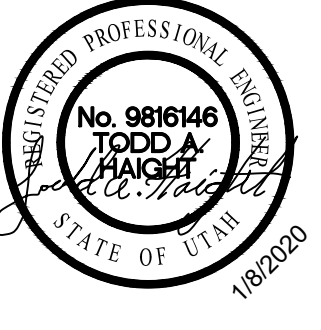
- List of 29 general notes regarding electrical work, including coordination with architectural/civil/structural teams, submission of shop drawings, and adherence to specifications.

ELECTRICAL SPECIFICATIONS

Detailed electrical specifications including Section 16000 - General Provisions, Section 16050 - Basic Materials and Methods, and Section 16010 - Building Lighting. Covers material quality, installation methods, and testing requirements.

DRAWING INDEX

Table listing drawing titles and numbers, such as E001 ELECTRICAL SYMBOLS AND NOTES, E002 MAIN LEVEL POWER PLAN, etc.



PVE Inc. Consulting Mechanical/Electrical Engineers. Address: 1040 North 2200 West, Suite 100, Salt Lake City, Utah 84116.

DAVINCI ACADEMY - SUITES D, E, & F. 850 WEST 350 NORTH KAYSVILLE, UT 84037.

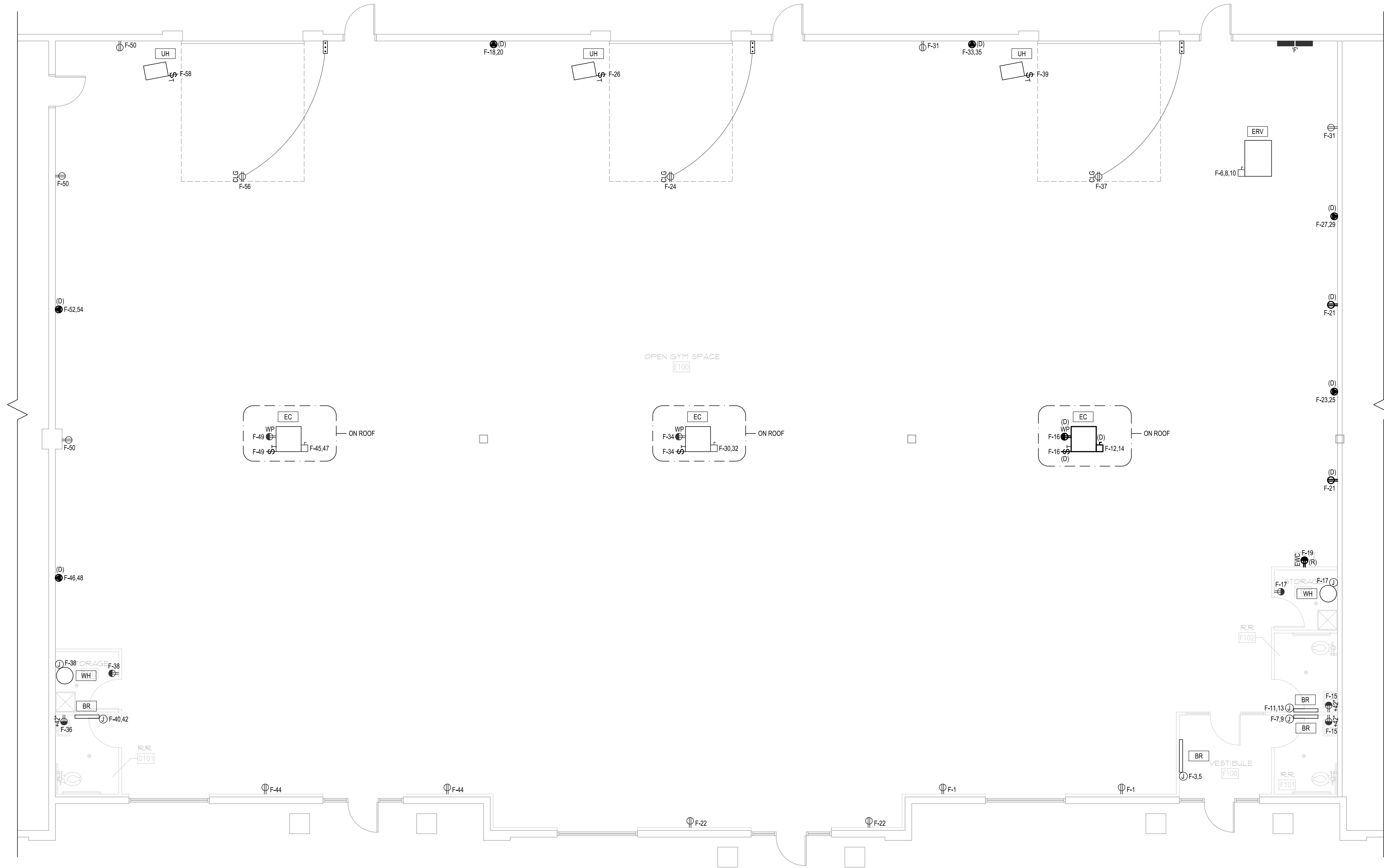
Revisions table with columns for NO., DATE, and DESCRIPTION.

DATE: 1/8/2020. SCALE: SEE DWG. DRAWN: J.S. CHECKED: T.H. JOB NO.: 18029.09

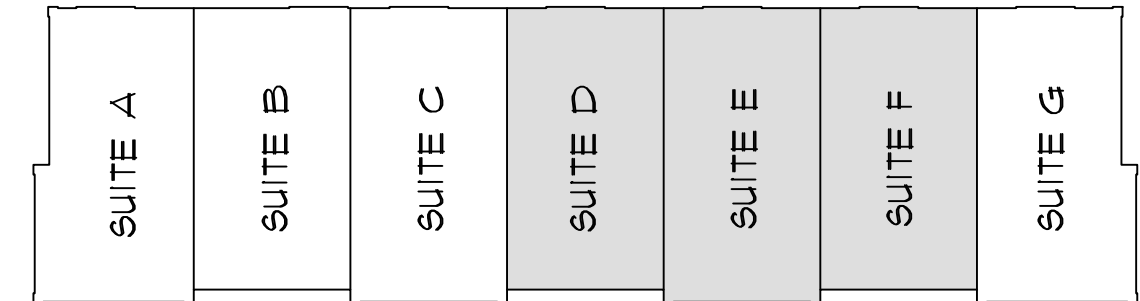
SHEET TITLE: ELECTRICAL SYMBOLS AND NOTES.

SHEET NO. E001

By: Jamih; on 09, 2020 - 3:02pm. X:\Projects\2018\18029.09 - Horizon Suite DEF - Davinci Academy Addition\EXHIBIT\RIGHT TO LIGHT\18029.09\18029.09.dwg. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.



KEY PLAN



A EXISTING / DEMOLITION POWER PLAN
E200 SCALE: 3/16" = 1'-0"



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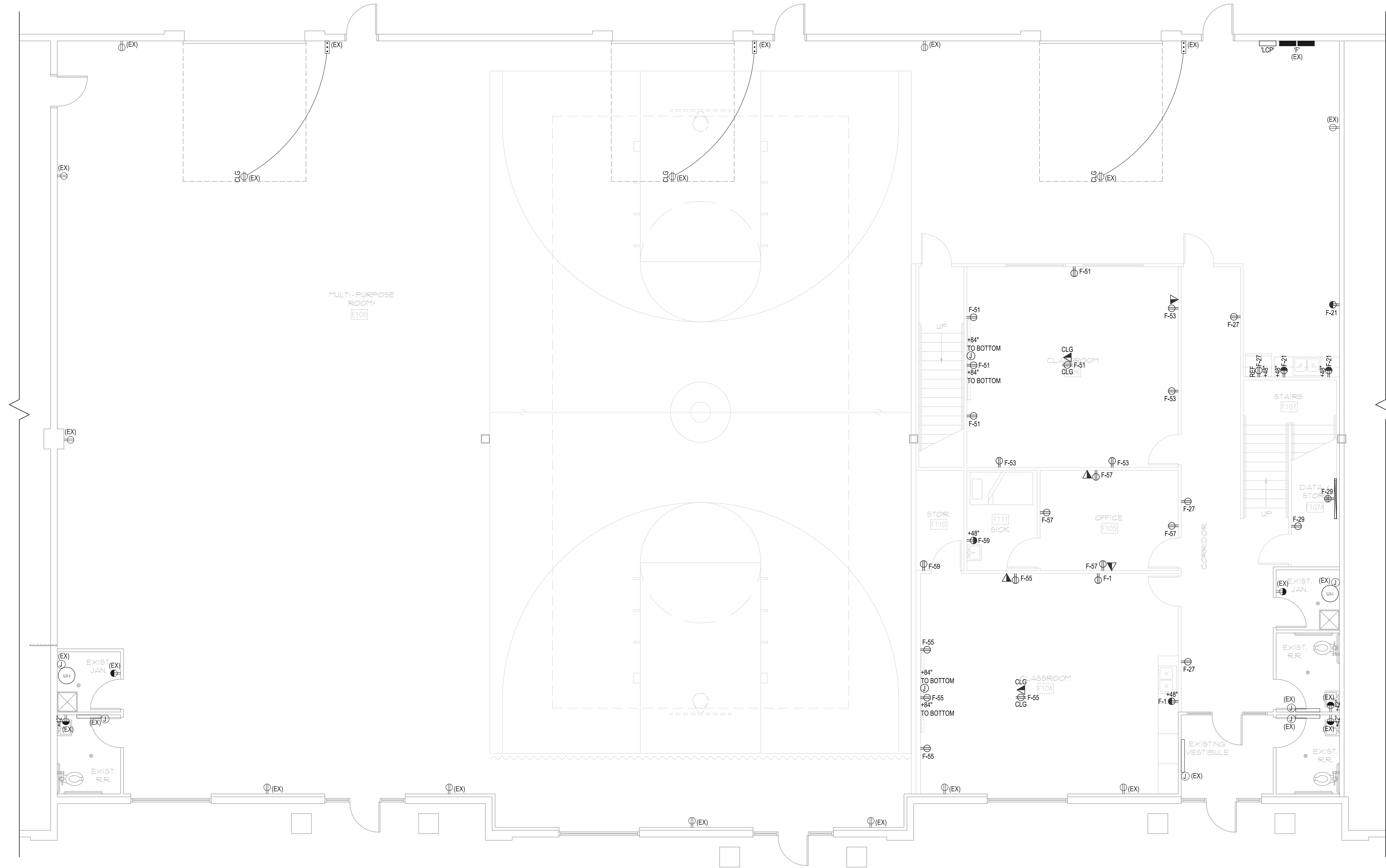
NO.	DATE	DESCRIPTION

DATE: 1/8/2020
 SCALE: SEE DWG.
 DRAWN: J.S.
 CHECKED: T.H.
 JOB NO.: 18029.09

SHEET TITLE
EXISTING / DEMOLITION POWER PLAN

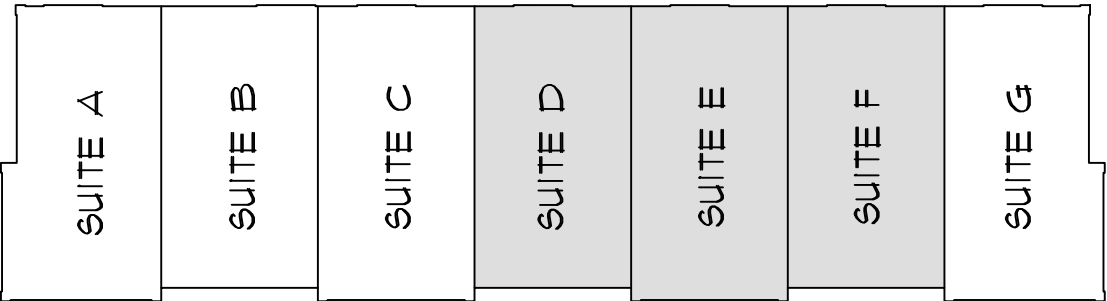
SHEET NO.
E200

By: Jamih: Jan 09, 2020 - 3:02pm, X:\Projects\2018\18029.09 - Horizon Suite DEF - Davinci Academy Addition\EX\RIGHT\18029.09\18029.09.dwg. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.



A MAIN LEVEL POWER PLAN
E201 SCALE: 3/16" = 1'-0"

KEY PLAN



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850 WEST 350 NORTH
KAYSVILLE, UT 84037

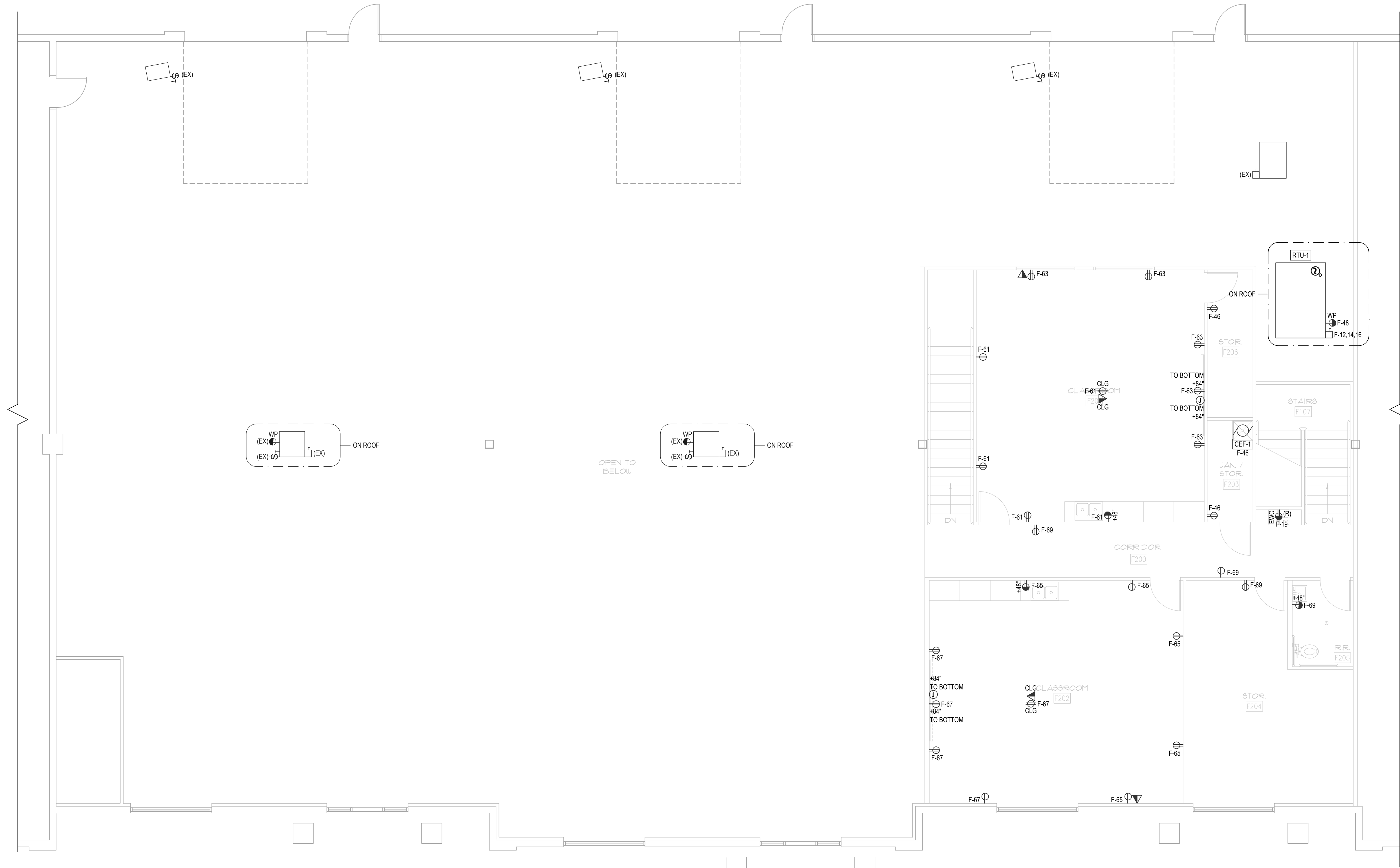
NO.	DATE	REVISIONS:	DESCRIPTION

DATE	1/8/2020
SCALE	SEE DWG.
DRAWN	J.S.
CHECKED	T.H.
JOB NO.	18029.09

SHEET TITLE
MAIN LEVEL POWER PLAN

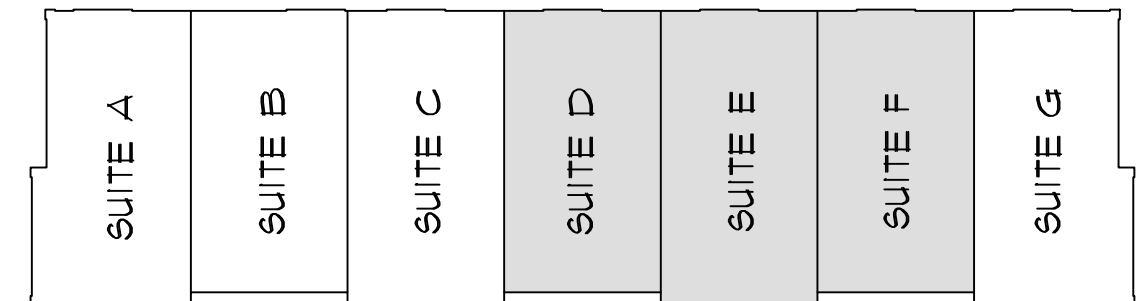
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E201

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A UPPER LEVEL POWER PLAN
E202 SCALE: 3/16" = 1'-0"

KEY PLAN



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DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

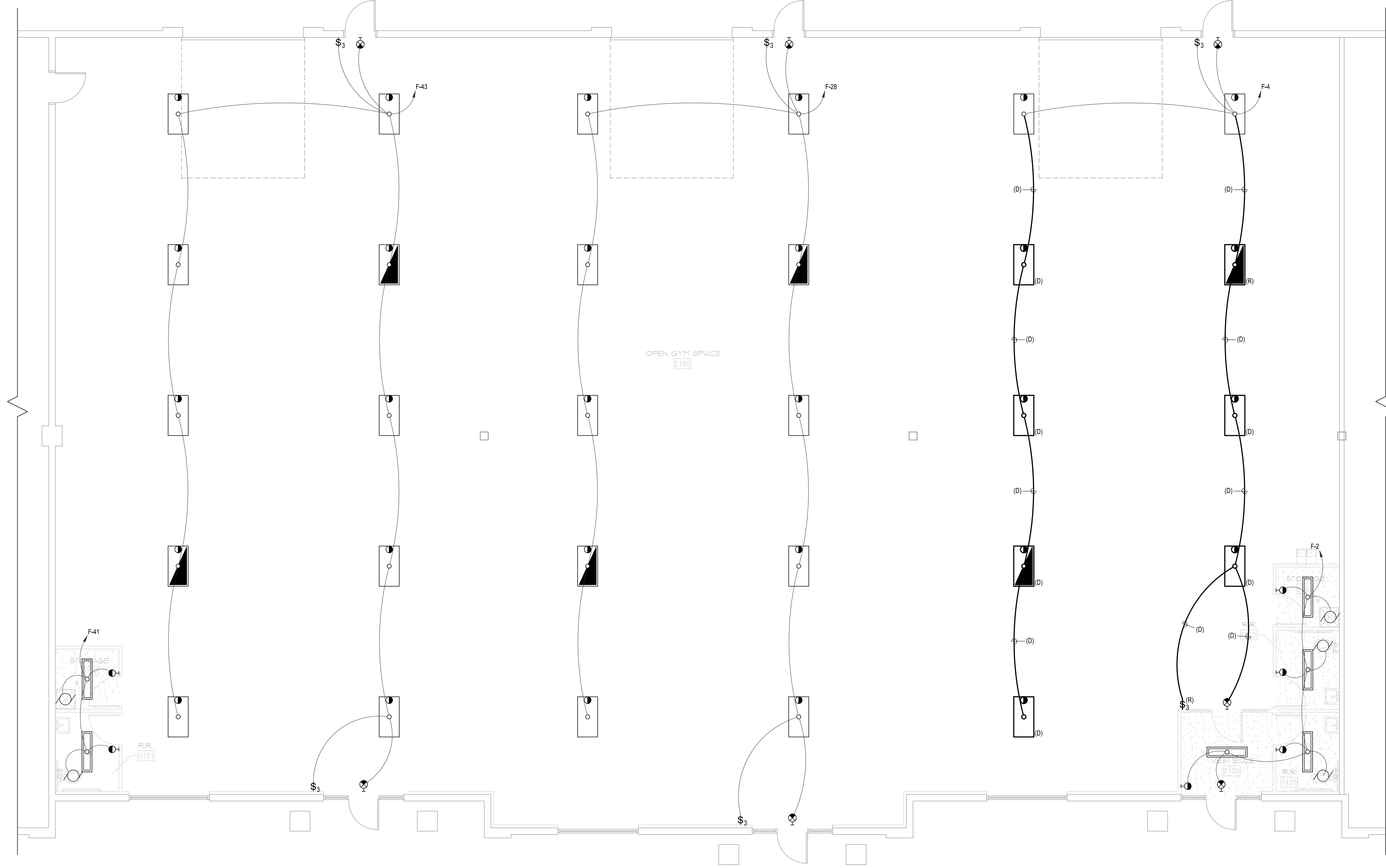
REVISIONS:	
NO.	DATE DESCRIPTION

DATE: 1/8/2020
SCALE: SEE DWG.
DRAWN: J.S.
CHECKED: T.H.
JOB NO.: 18029.09

SHEET TITLE
UPPER LEVEL POWER PLAN

SHEET NO.
E202

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A EXISTING / DEMOLITION LIGHTING PLAN
E300 SCALE: 3/16" = 1'-0"



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DAVINCI ACADEMY - SUITES D, E, & F
 850 WEST 350 NORTH
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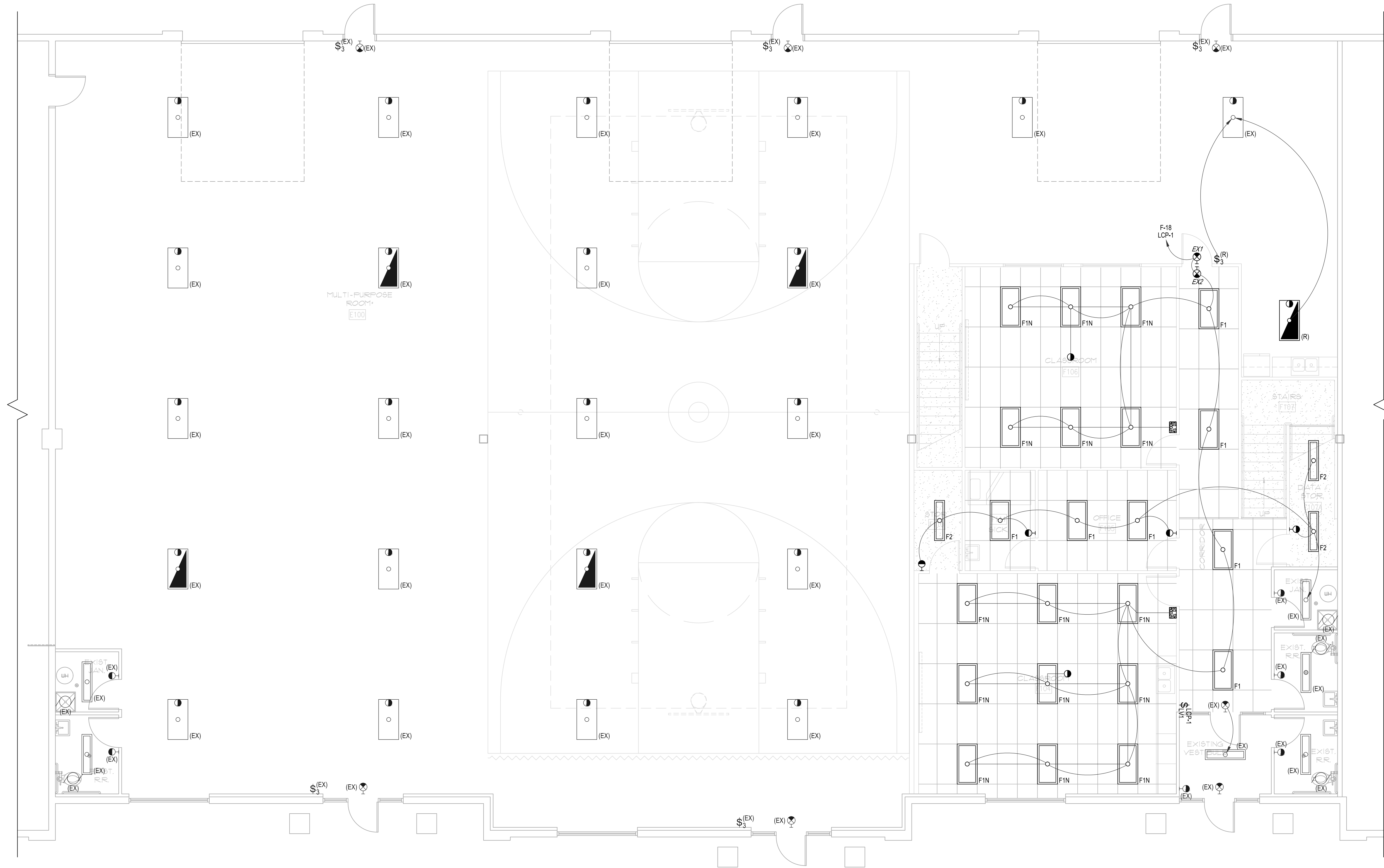
NO.	DATE	DESCRIPTION

DATE: 1/8/2020
 SCALE: SEE DWG.
 DRAWN: J.S.
 CHECKED: T.H.
 JOB NO.: 18029.09

SHEET TITLE
EXISTING / DEMOLITION LIGHTING PLAN

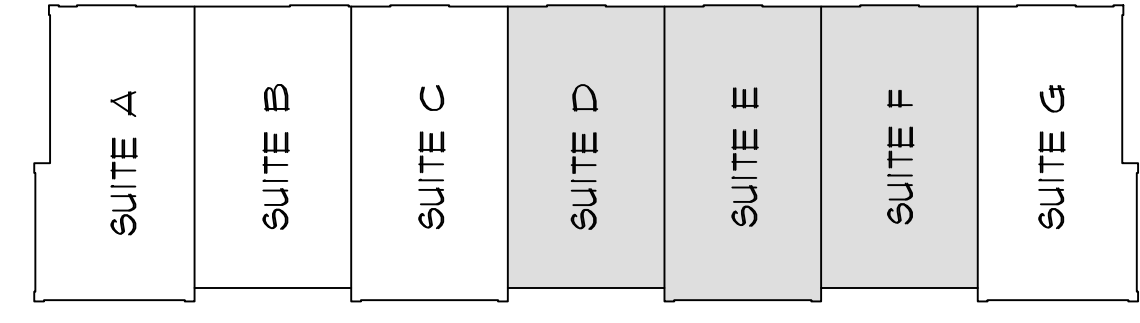
SHEET NO.
E300

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A MAIN LEVEL LIGHTING PLAN
E301 SCALE: 3/16" = 1'-0"

KEY PLAN



- DATA CONNECTIONS BETWEEN EACH FIN, FIXTURE, CONTROLLERS, AND POWER PACKS
- Sensor-Ceiling Mount, Low Voltage, Passive Infrared (PIR)
- hPDM 4S DX (COLOR) 4 Button On/Off Toggle or Quad Scene Controller With Dimming
- 120V POWER CONNECTION TO EACH LIGHT AND POWER PACK
- 120V HOME RUN BACK TO PANEL



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850 WEST 350 NORTH
KAYSVILLE, UT 84037

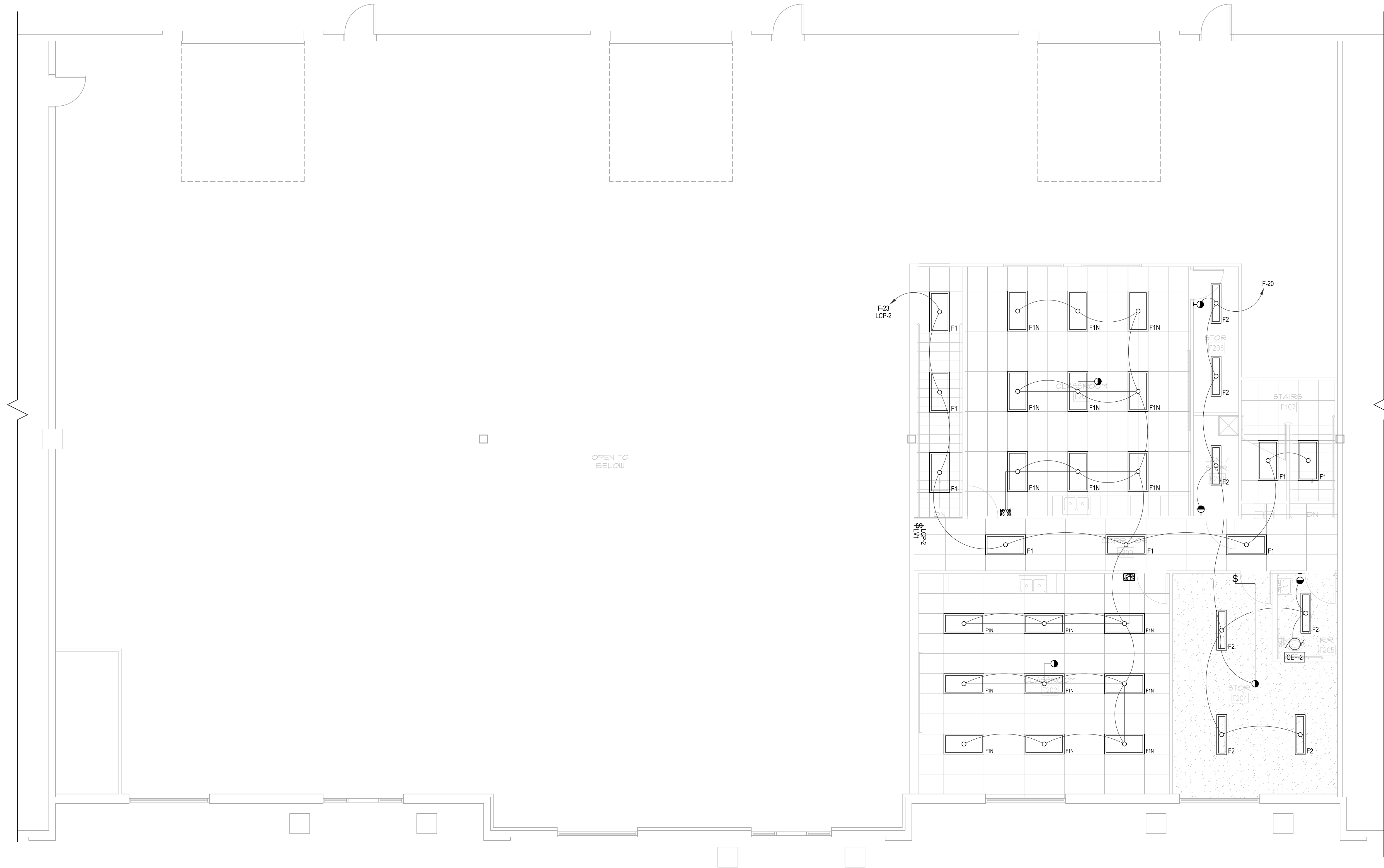
NO.	DATE	DESCRIPTION

DATE: 1/8/2020
SCALE: SEE DWG.
DRAWN: J.S.
CHECKED: T.H.
JOB NO.: 18029.09

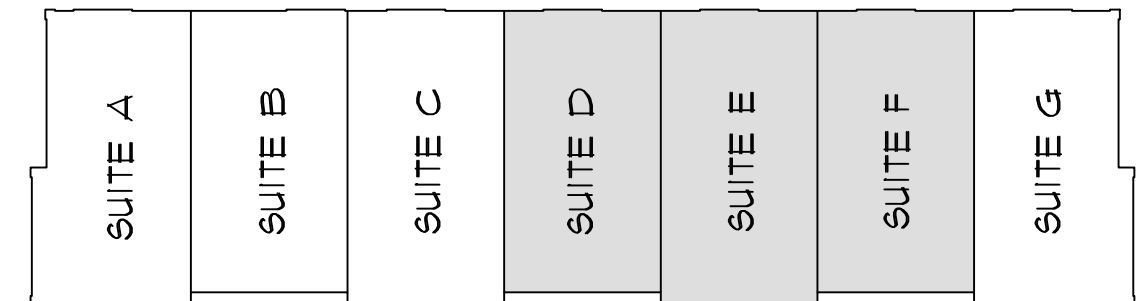
SHEET TITLE
MAIN LEVEL LIGHTING PLAN

SHEET NO.
E301

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KEY PLAN



A UPPER LEVEL LIGHTING PLAN
 E302 SCALE: 3/16" = 1'-0"

- DATA CONNECTIONS BETWEEN EACH F1N FIXTURE, CONTROLLERS, AND POWER PACKS
- Sensor-Calling Mount, Low Voltage, Passive Infrared (PIR)
- iPODM 4S DX (COLOR) 4 Button On/Off Toggle or Quad Scene Controller With Dimming
- 120V POWER CONNECTION TO EACH LIGHT AND POWER PACK
- 120V HOME RUN BACK TO PANEL



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DAVINCI ACADEMY - SUITES D, E, & F
 850 WEST 350 NORTH
 KAYSVILLE, UT 84037

NO.	DATE	DESCRIPTION

DATE..... 1/8/2020
 SCALE..... SEE DWG.
 DRAWN..... J.S.
 CHECKED..... T.H.
 JOB NO..... 18029.09

SHEET TITLE
UPPER LEVEL LIGHTING PLAN

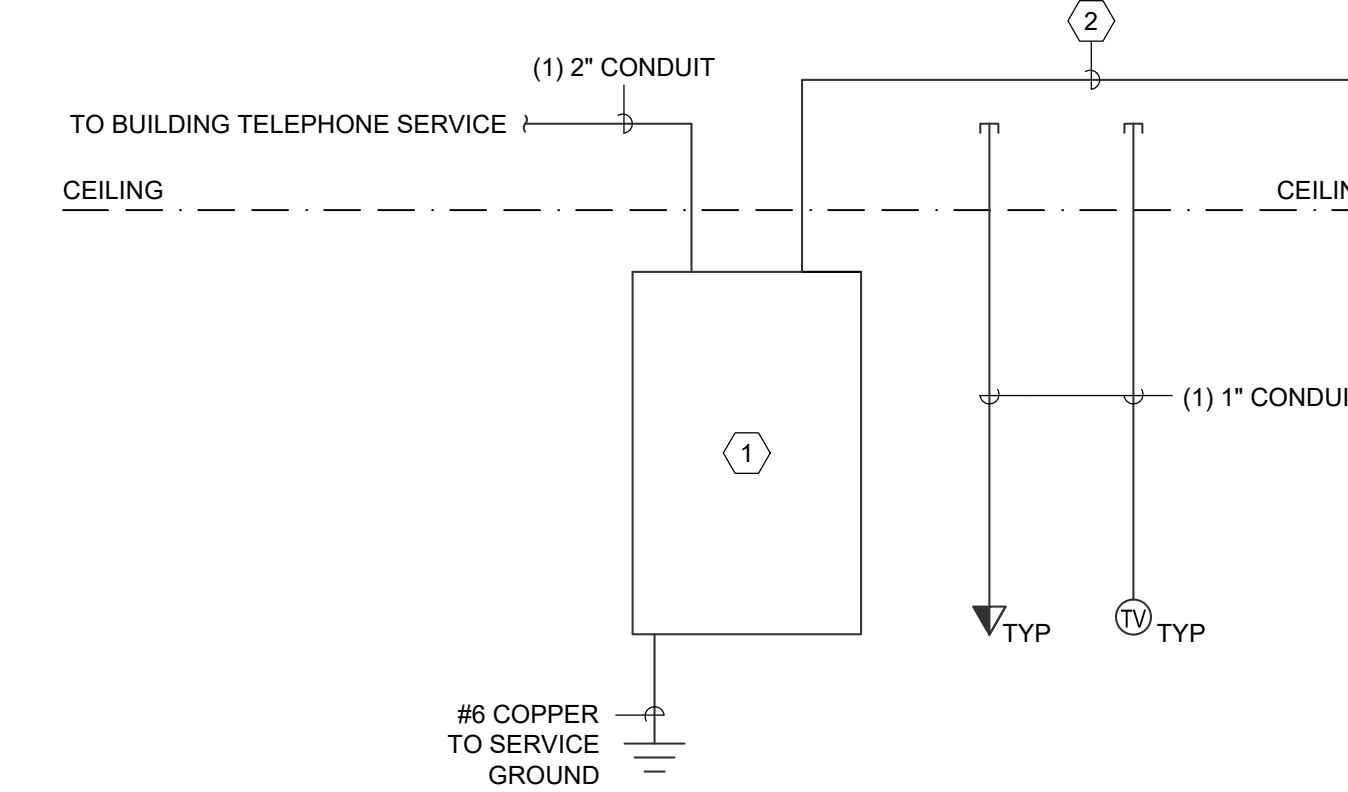
SHEET NO.
E302

FIRE ALARM SHALL BE DESIGNED UNDER A DEFERRED SUBMITTAL



KEYED NOTES (Ⓝ):

1. NEW 48"Wx48"Hx3/4"D PLYWOOD BOARD WITH THREE COATS FIRE-RETARDANT PAINT IN TENANT SPACE FOR TELEPHONE SERVICE. SEE POWER PLANS FOR LOCATION.
2. PROVIDE (1) 2" CONDUIT TO DATA ROOM IN SUITE C.

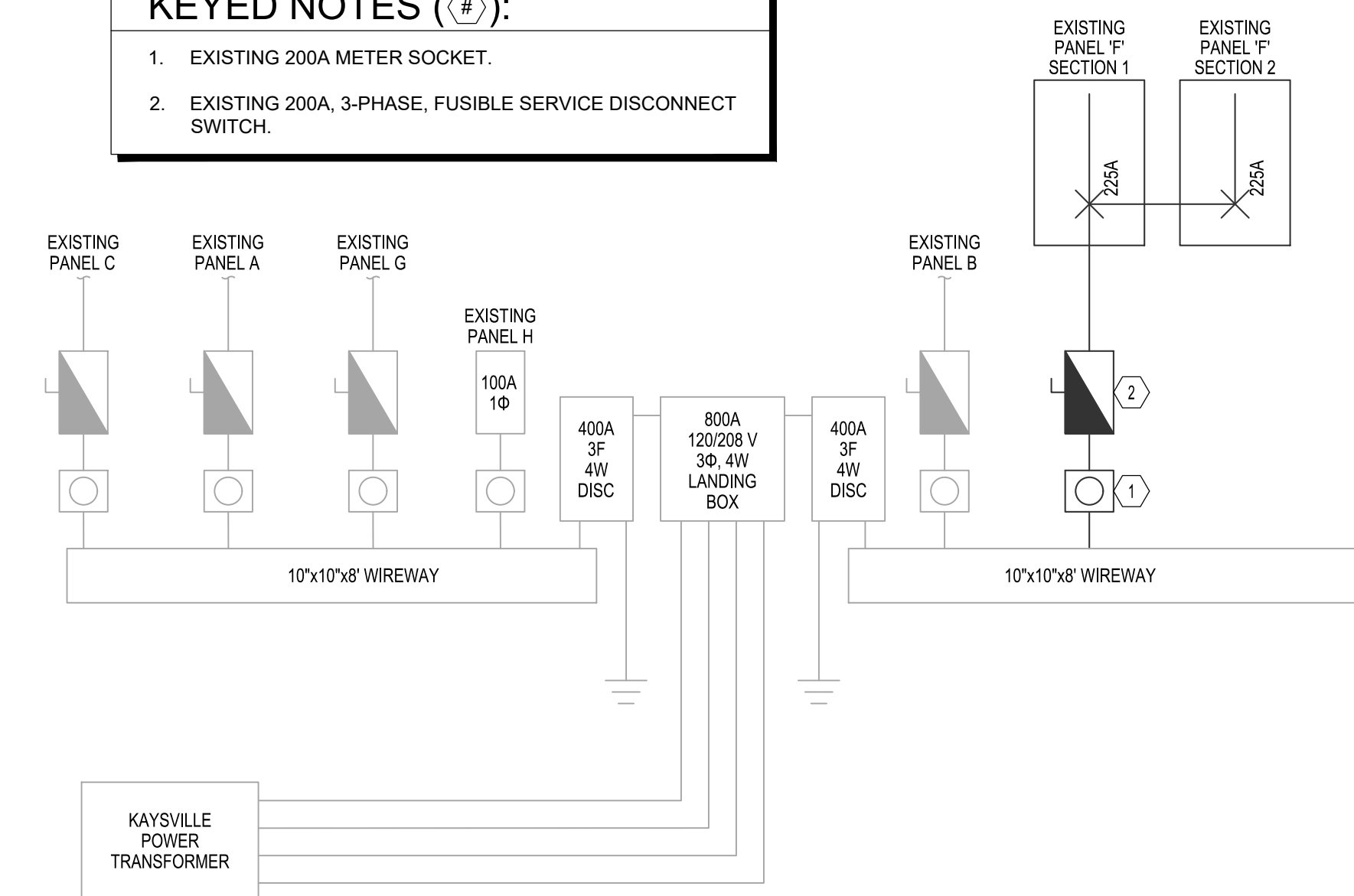


B TELEPHONE RISER DIAGRAM
E401

SERVICE SCHEDULE			
CKT NO.	DESCRIPTION	DESIGN KVA	DESIGN FLA
1	PANEL 'H'	19.8	95.0
2	SUITE 'A'	32.1	89.2
3	SUITE 'C'	49.0	136.0
4	SUITE 'G'	54.2	150.4
5	SUITE 'B'	28.8	79.9
6	SUITE 'F'	58.2	161.4
7	SPACE		
8	SPACE		
DESIGN KVA:		242.0	
DESIGN FLA:		671.8	

KEYED NOTES (Ⓝ):

1. EXISTING 200A METER SOCKET.
2. EXISTING 200A, 3-PHASE, FUSIBLE SERVICE DISCONNECT SWITCH.



A EXISTING ONE-LINE DIAGRAM
E401

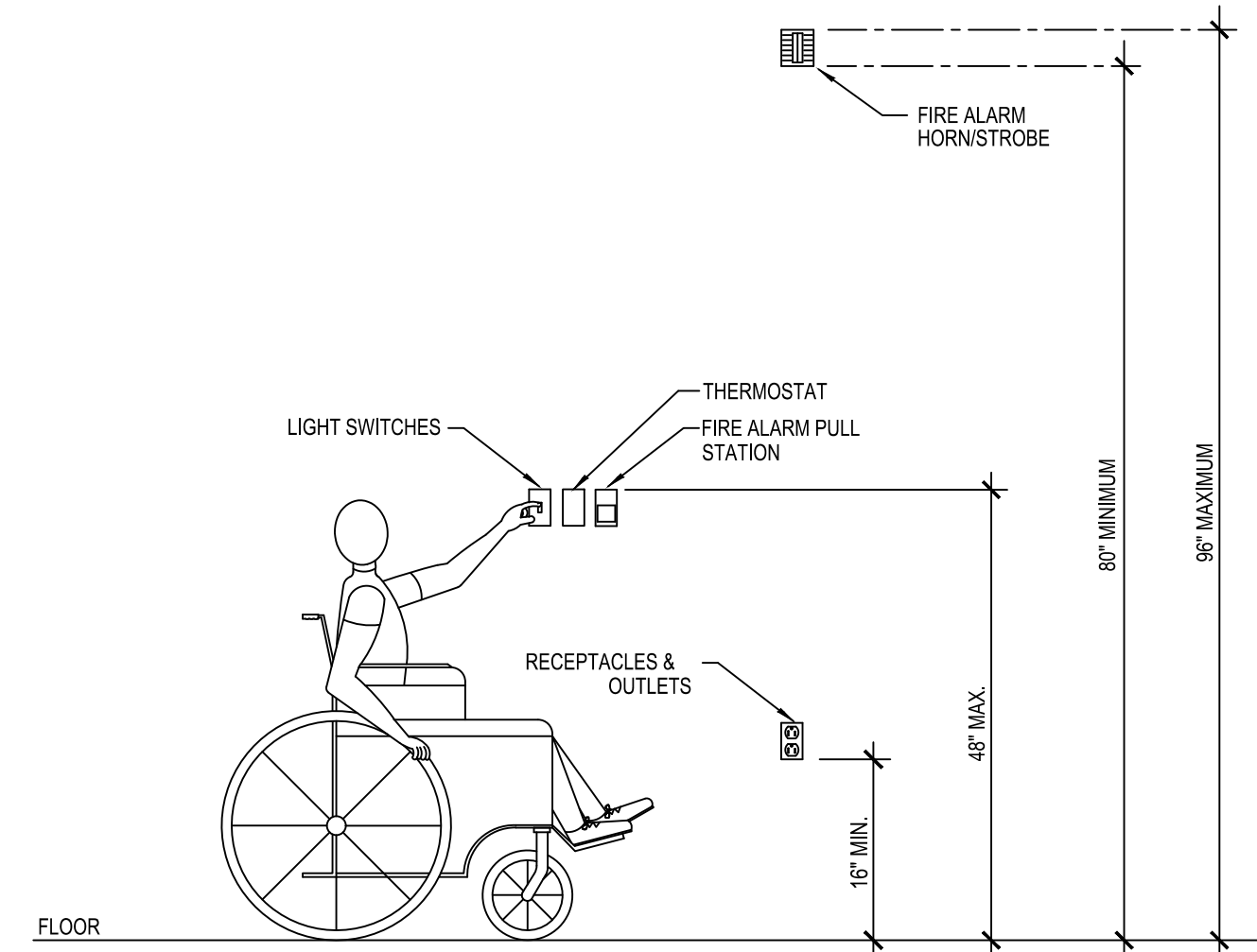
REVISIONS:	
NO.	DESCRIPTION

DATE	1/8/2020
SCALE	SEE DWG.
DRAWN	J.S.
CHECKED	T.H.
JOB NO.	18029.09

SHEET TITLE
ONE-LINE DIAGRAM

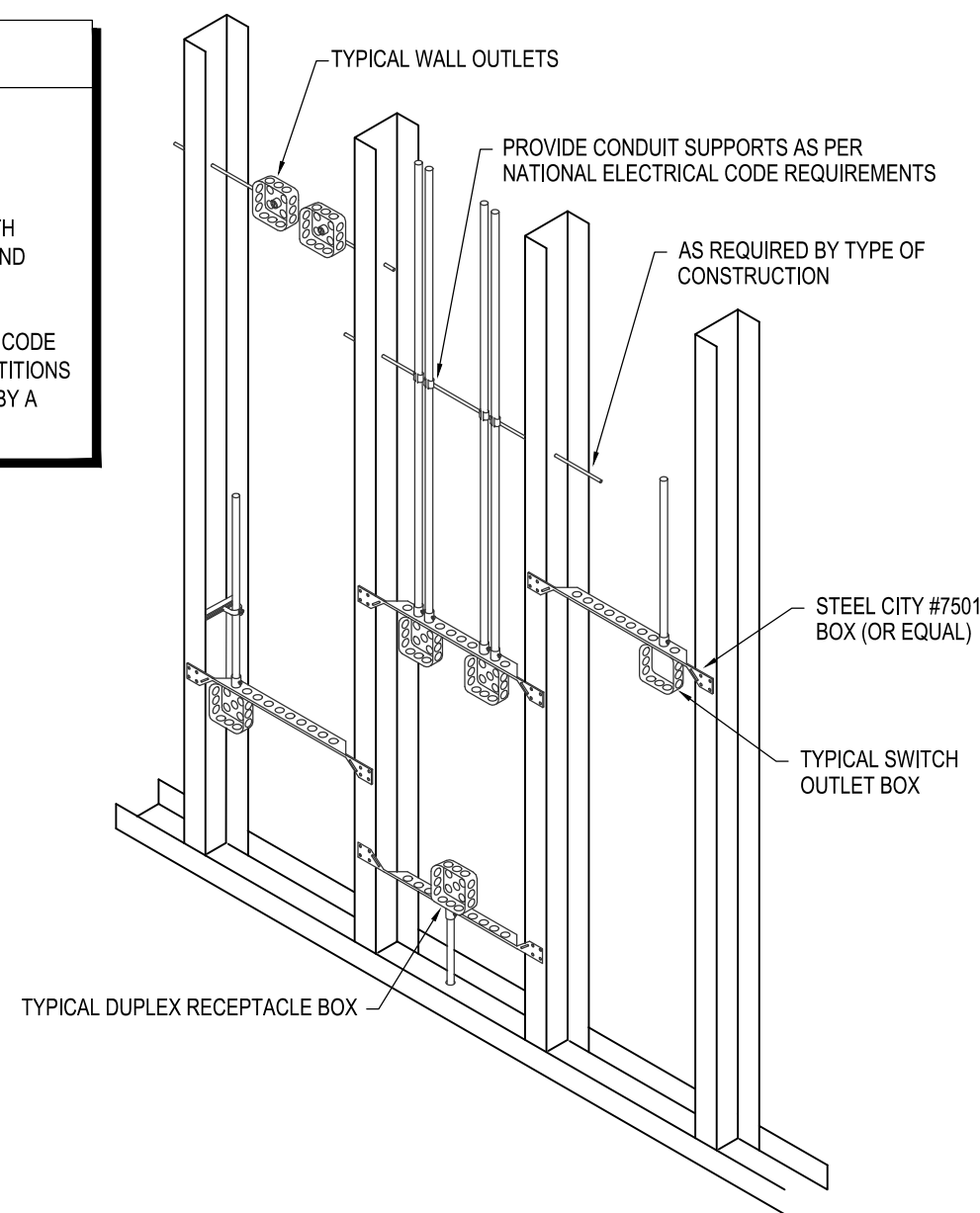
SHEET NO.
E401

By: Jamih; Jan 09, 2020 - 3:02pm; X:\Projects\2018\18029.09 - Horizon Suite DEF - Davinci Academy Addition\ENR\right\015007\015007.dwg\18029.09.dwg

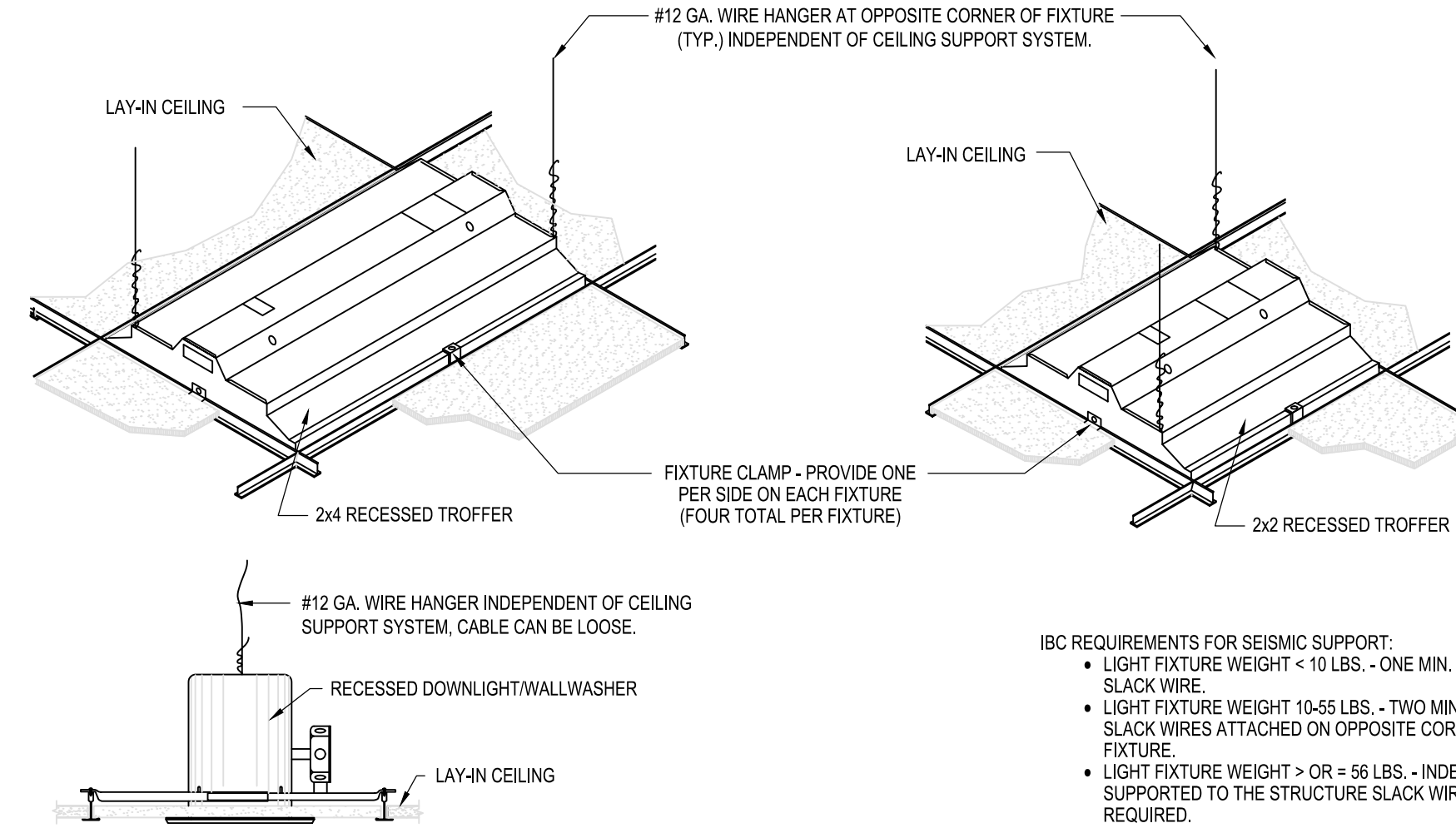


A MOUNTING HEIGHTS DETAIL
E601

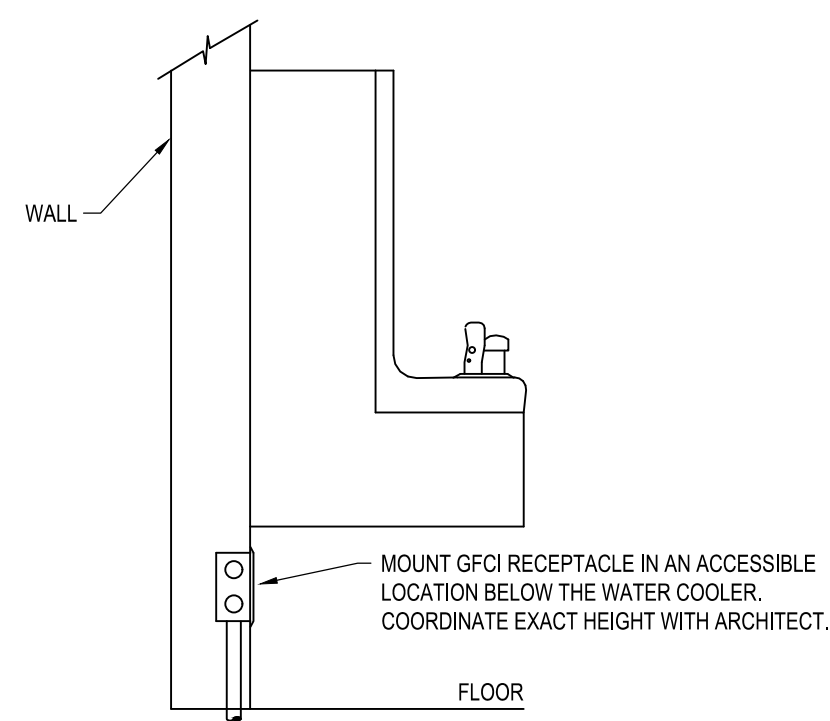
- NOTES:**
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.



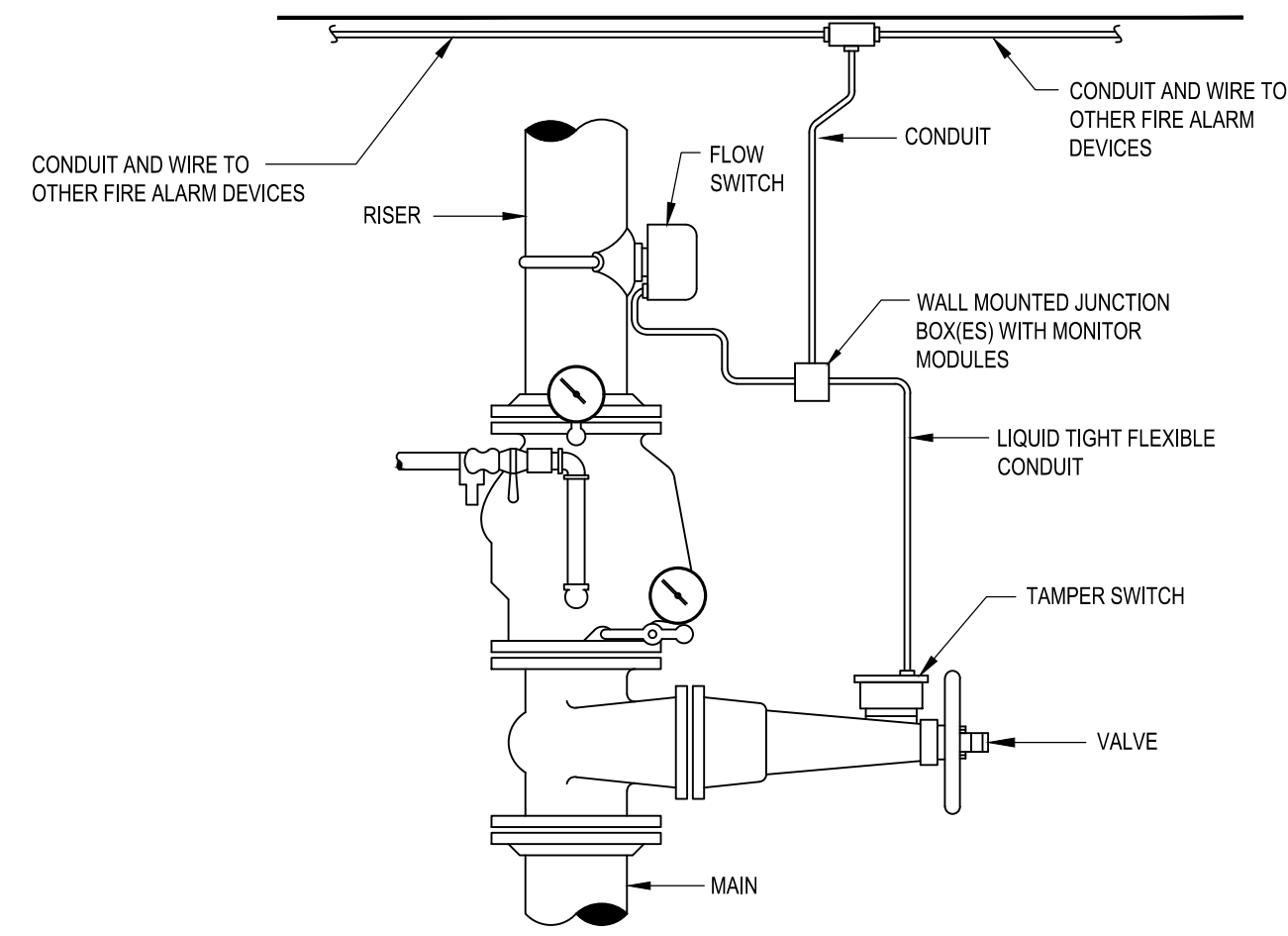
B TYPICAL ROUGH-IN REQUIREMENTS DETAIL
E601



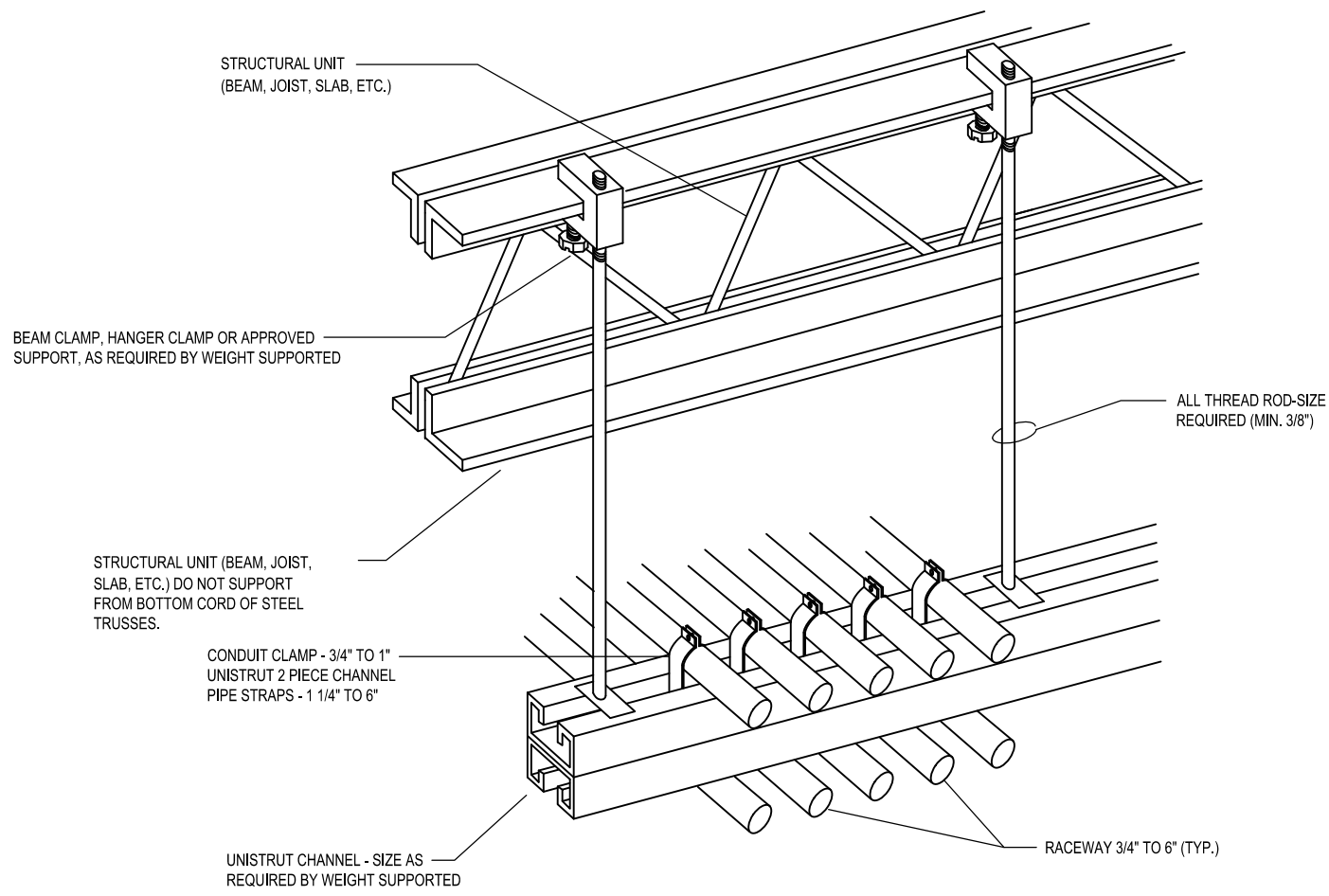
C LAY-IN GRID FIXTURE SEISMIC MOUNTING DETAILS
E601



D WATER COOLER GFCI RECEPTACLE MOUNTING DETAIL
E601

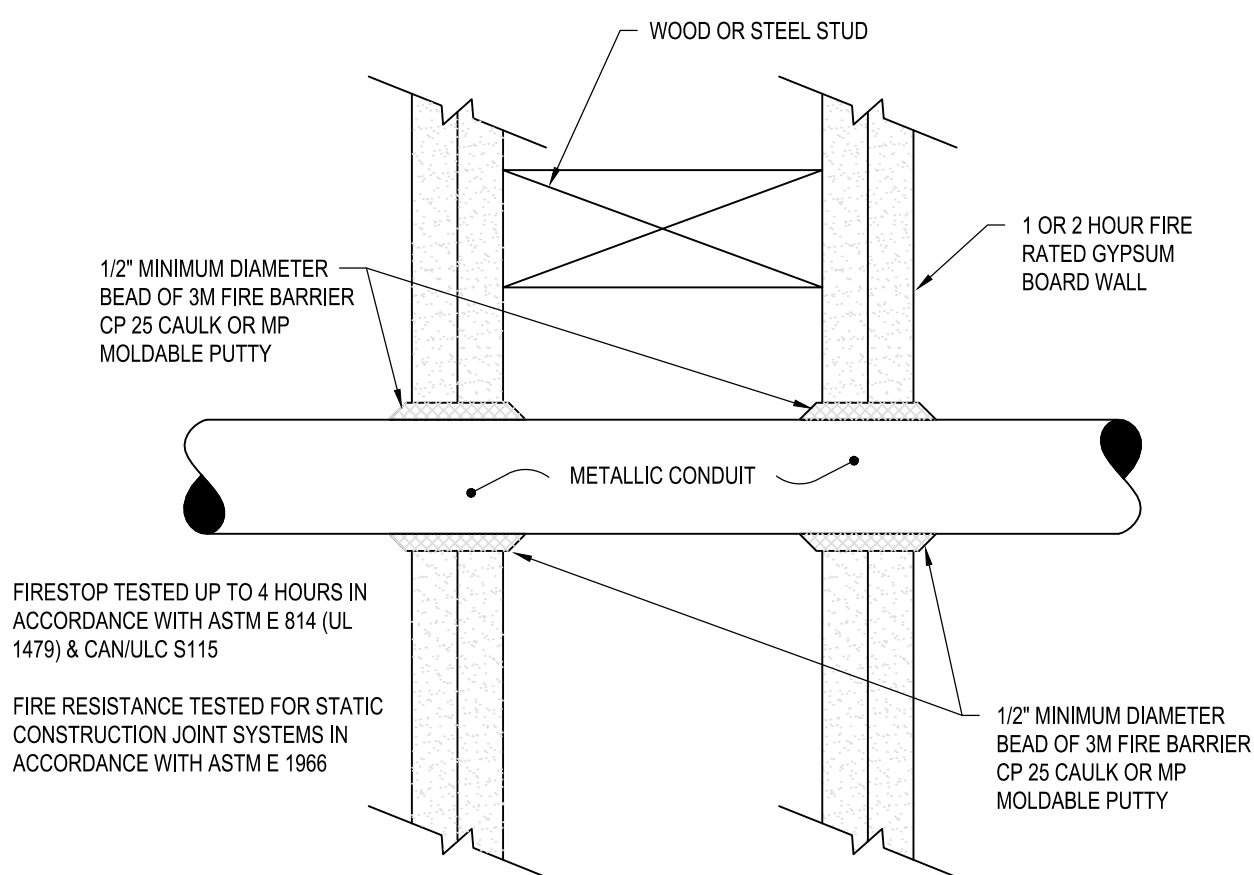


E FIRE SPRINKLER RISER CONNECTION
E601



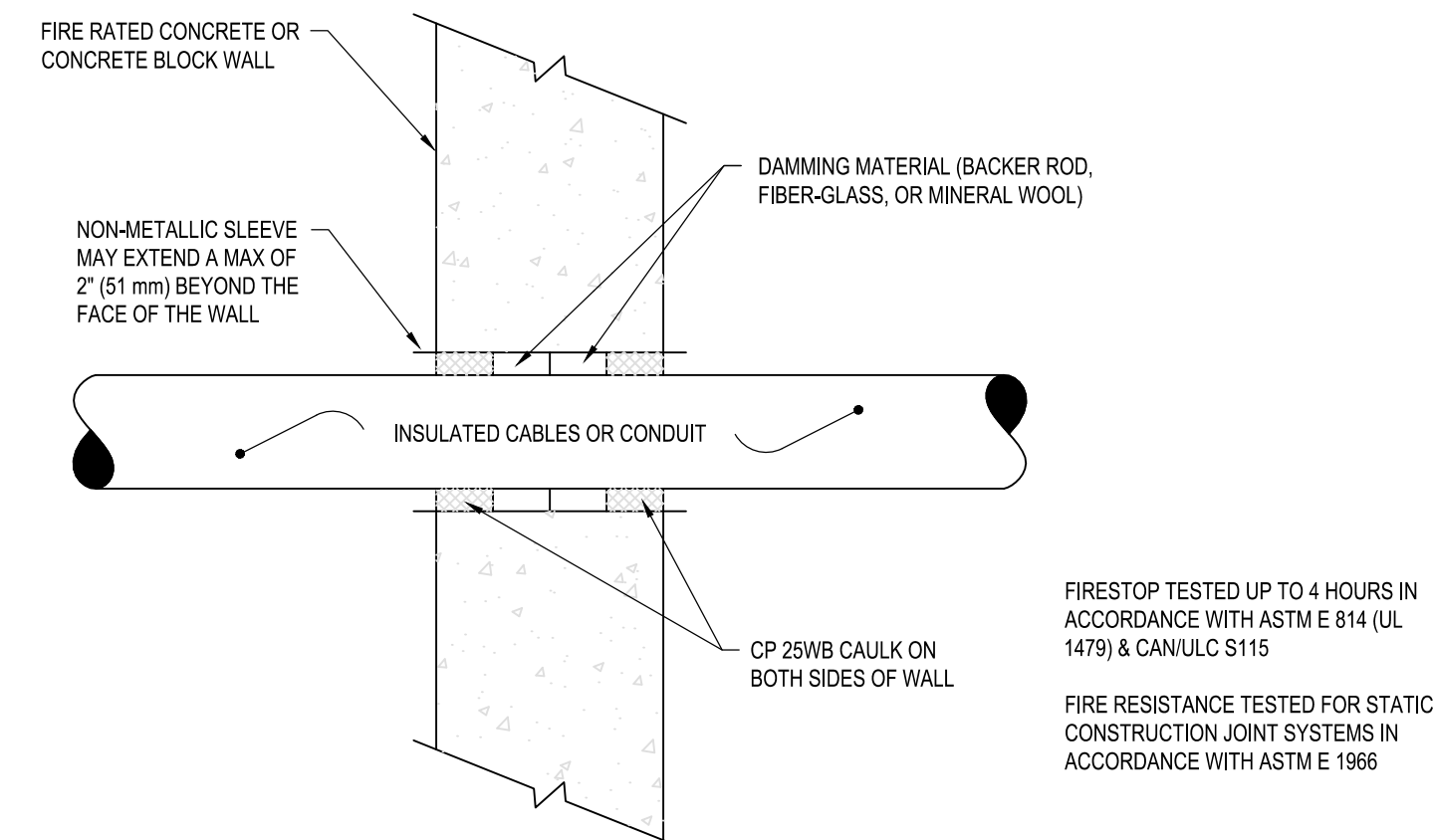
F TYPICAL TRAPEZE CONDUIT RACK
E601

- NOTE:**
- TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



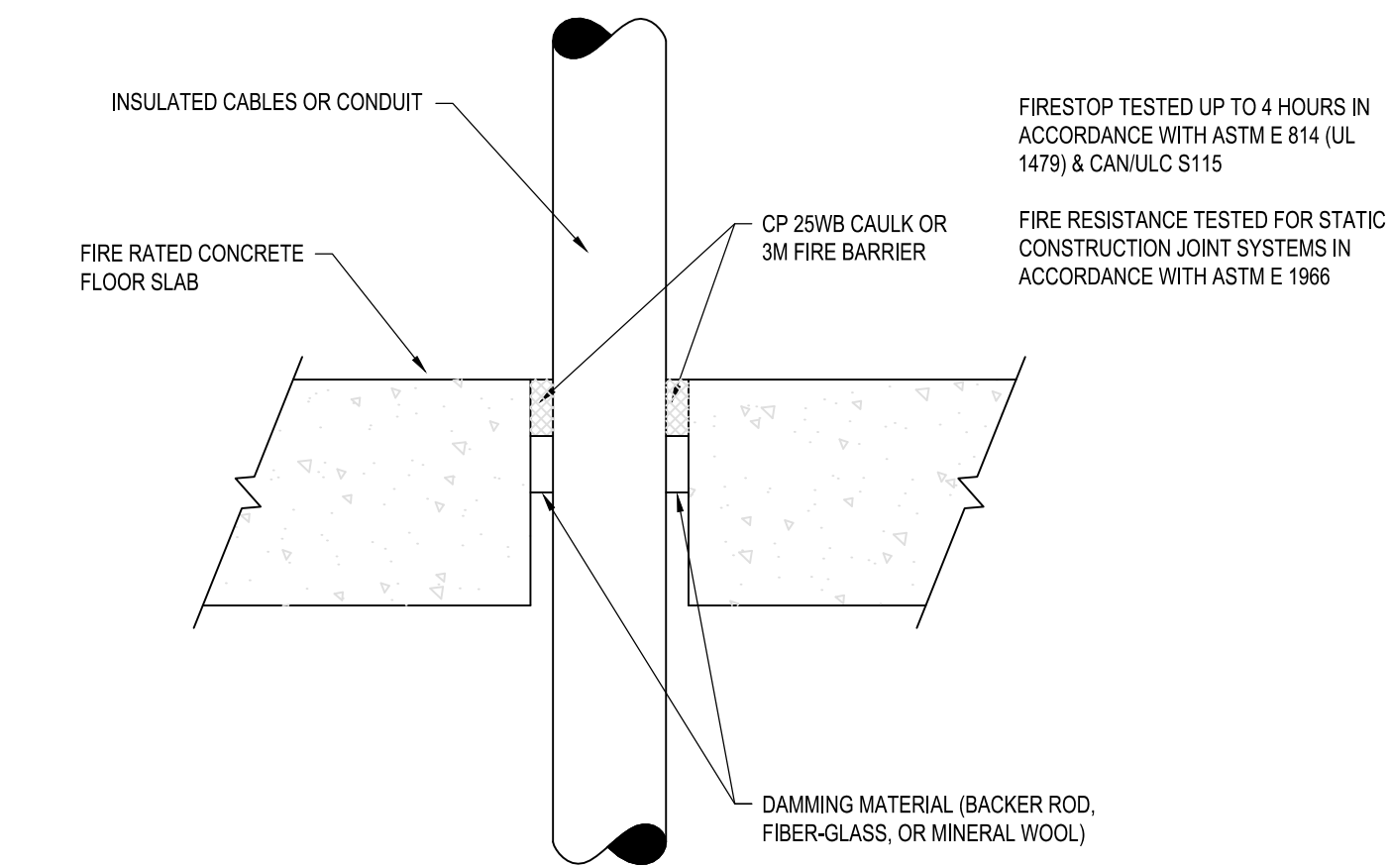
G FIRE STOP THRU GYPSUM BOARD WALL
E601

- NOTE:**
- TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



H FIRESTOP THRU CONCRETE/MASONRY WALL
E601

- NOTE:**
- TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



I FIRESTOP THRU CONCRETE FLOOR
E601



PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, Utah 84116
(801) 359-3158 Fax: (801) 521-4114

DAVINCI ACADEMY - SUITES D, E, & F
850 WEST 350 NORTH
KAYSVILLE, UT 84037

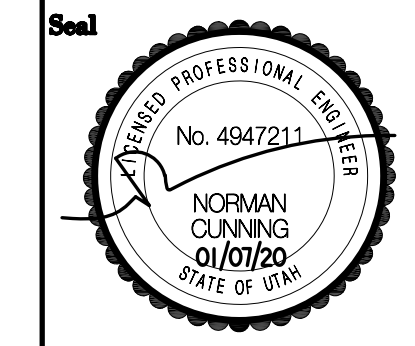
NO.	DATE	DESCRIPTION

DATE: 1/8/2020
SCALE: SEE DWG.
DRAWN: J.S.
CHECKED: T.H.
JOB NO.: 18029.09

SHEET TITLE
**ELECTRICAL
DETAILS**

SHEET NO.
E601

Revisions	Date



Consultant:
Mechanical Consulting Engineers
Cunning & Associates
 4685 W. 11600 N. Tremonton, UT 84317
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PLUMBING SYMBOL LEGEND \ ABBREVIATIONS

FD	FLOOR DRAIN	ELBOW IN PIPE	O.R.D.	OVERFLOW ROOF DRAIN	
FCO	FLOOR CLEAN OUT	TEE IN PIPE	C.O.	CLEAN OUT	
WCO	WALL CLEAN OUT	GAS SHUTOFF VALVE	VTR	VENT THROUGH ROOF	
DCW	DOMESTIC COLD WATER (DCW)	GAS PRESSURE REGULATOR	WHA	WATER HAMMER ARRESTOR	
DHW	DOMESTIC HOT WATER (DHW)	BALL VALVE	A.D.	ACCESS DOOR	
W	WASTE (W)	VALVE IN DROP	A.F.F.	ABOVE FINISHED FLOOR	
V	VENT (V)	UNION	COTG	CLEAN OUT TO GRADE	
NG	NATURAL GAS (G)	CHECK VALVE	MV	MIXING VALVE	
DP	DROP IN PIPE	BALANCE VALVE	F.U.	FIXTURE UNITS	
RI	RISE IN PIPE	R.D.	ROOF DRAIN	D.N.	DOWNSPOUT NOZZLE

PLUMBING FIXTURE SCHEDULE

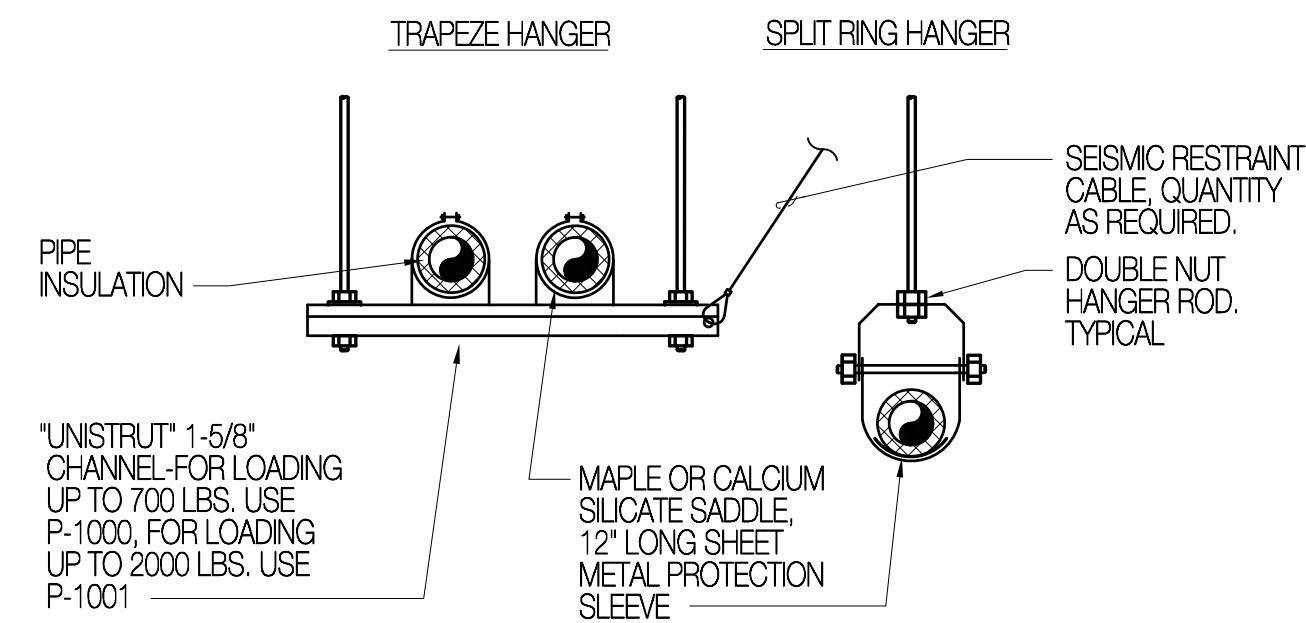
SYMBOL	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS
P-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, ADA HEIGHT	1"	-	INT.	3"	2"	-
P-2	LAVATORY, WALL MOUNTED, ADA COMPLIANT, AUTOMATIC FAUCET	1/2"	1/2"	1-1/2"	2"	1-1/2"	-
P-3	BREAK ROOM SINK, DOUBLE BOWL, STAINLESS STEEL	1/2"	1/2"	1-1/2"	2"	1-1/2"	-
P-4	SERVICE SINK, FLOOR MOUNTED, PORCELAIN CAST IRON	1/2"	1/2"	2"	2"	2"	-
FD	FLOOR DRAIN, 6" DIAMETER GRATE	-	-	2"	2"	2"	-
WCO	WALL CLEAN OUT	-	-	-	-	-	-

GENERAL FIXTURE NOTES:

- THE PLUMBING CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF ALL PLUMBING EQUIPMENT AND THE RELATED ROUGH IN LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS. PROVIDE ALL ACCESSORIES AND OPTIONS REQUIRED TO PROVIDE THE OWNER A COMPLETELY FUNCTIONAL PLUMBING SYSTEM.
- ALL WALL HUNG PLUMBING FIXTURES SHALL BE SUPPORTED BY FLOOR MOUNTED CARRIERS (SMITH, JOSAM, MIFAB, OR WATTS) CARRIERS SHALL BE CONSTRUCTED UTILIZING ALL METAL COMPONENTS WITH SUPPORT FEET SECURELY ANCHORED TO FLOOR STRUCTURE. FIXTURE ARMS SHALL SUPPORT FIXTURE INDEPENDENT FROM WALL STRUCTURE.
- EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED QUARTER TURN STOP VALVE BRASSCRAFT MODEL KTOR_ OR ENGINEER APPROVED EQUAL.
- FIXTURES AND ACCESSORIES SHALL BE AS SCHEDULED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM.
- ADA COMPLIANT FIXTURES SHALL BE INSTALLED WITH PRE-FORMED INSULATION AND PROTECTIVE COVERS ON P-TRAPS AND STOPS. COVERS TO BE MANUFACTURED BY BUCKAROOS OR TRUEBRO.
- CAULK ALL FIXTURES TO THE WALL OR FLOOR WITH APPLICABLE SILICONE COMPOUND. UTILIZE MULTIPLE BEADS TO FILL GAPS AND FINISH TO SMOOTH, FILLETED EDGE. USE APPROPRIATE TOOLS TO PROVIDE PROFESSIONAL APPEARANCE.
- ALL PLUMBING SHALL BE INSTALLED TO CONFORM TO THE LATEST ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE INCLUDING LOCAL AMENDMENTS. CONSULT AUTHORITIES HAVING JURISDICTION.
- ALL SINKS AND LAVATORIES WHERE HAND WASHING IS ANTICIPATED (FIXTURE P-2) SHALL BE PROTECTED WITH ASSE 1070 APPROVED TEMPERING VALVES PER DETAIL 4/P-000.

PIPING MATERIALS SCHEDULE

SERVICE	MATERIAL	REMARKS
DCW / DHW	TYPE "L" COPPER TUBING W/ WROUGHT COPPER FITTINGS	-
NAT. GAS	SCHEDULE 40 BLACK IRON	-
WASTE / VENT	SOLID CORE ABS OR PVC WITH DWV FITTINGS ABOVE AND BELOW GRADE	-

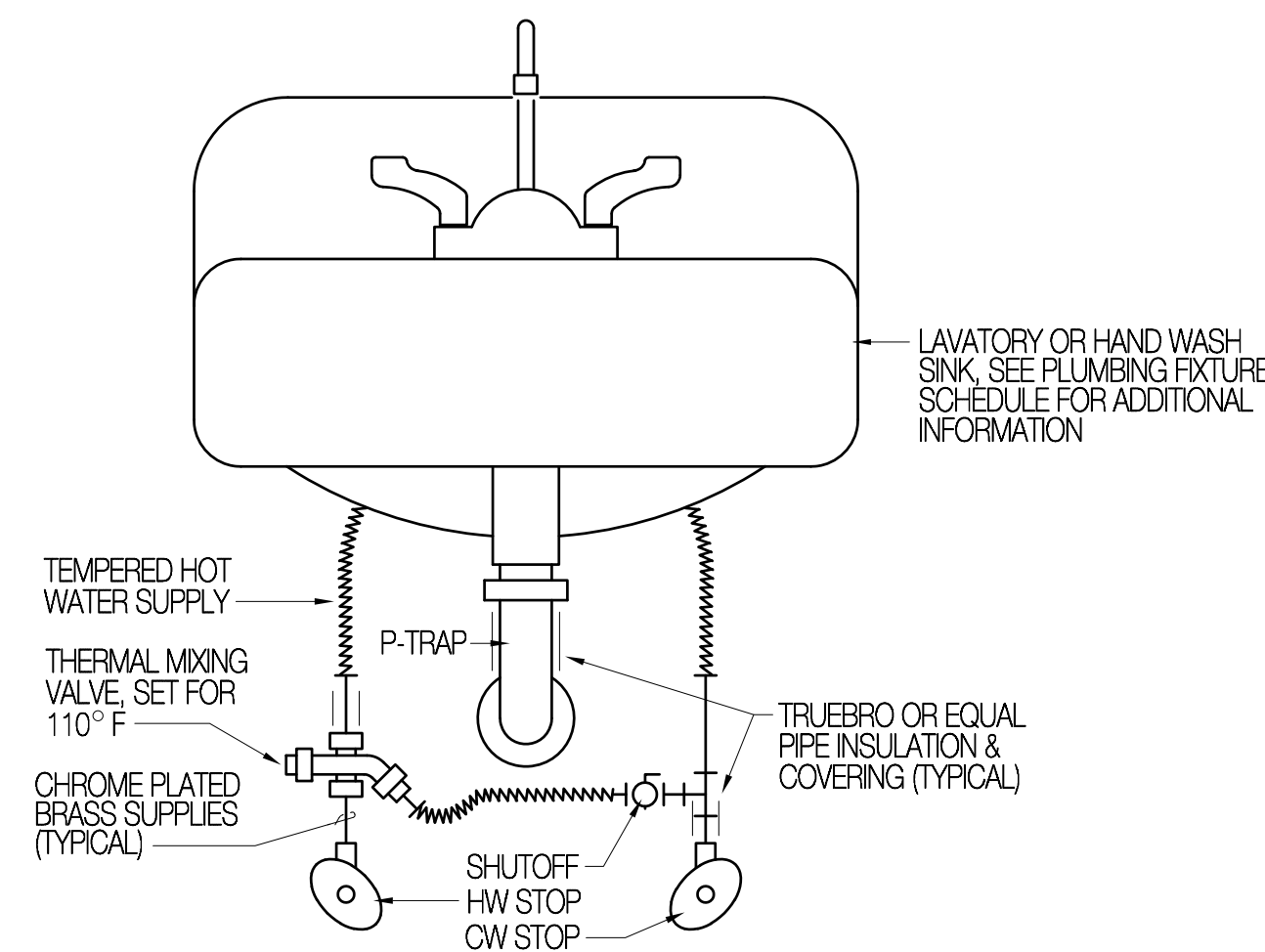


PIPE SIZE	MAX. SPACING	PIPE LOAD WEIGHT/FT. TOTAL	ROD SIZE
1" AND SMALLER	8	2.5/20	3/8"
1-1/4" - 2"	10	6/80	3/8"

HANGERS SIZES AND SPACING ARE FOR SINGLE PIPES. HANGER ROD LOADING FOR TRAPEZE HANGERS SHALL NOT EXCEED THE TOTAL LOADING INDICATED. IF SMALLER ROD SIZE IS USED, DECREASE MAXIMUM SPACING SO THAT TOTAL LOADING IS NOT EXCEEDED.

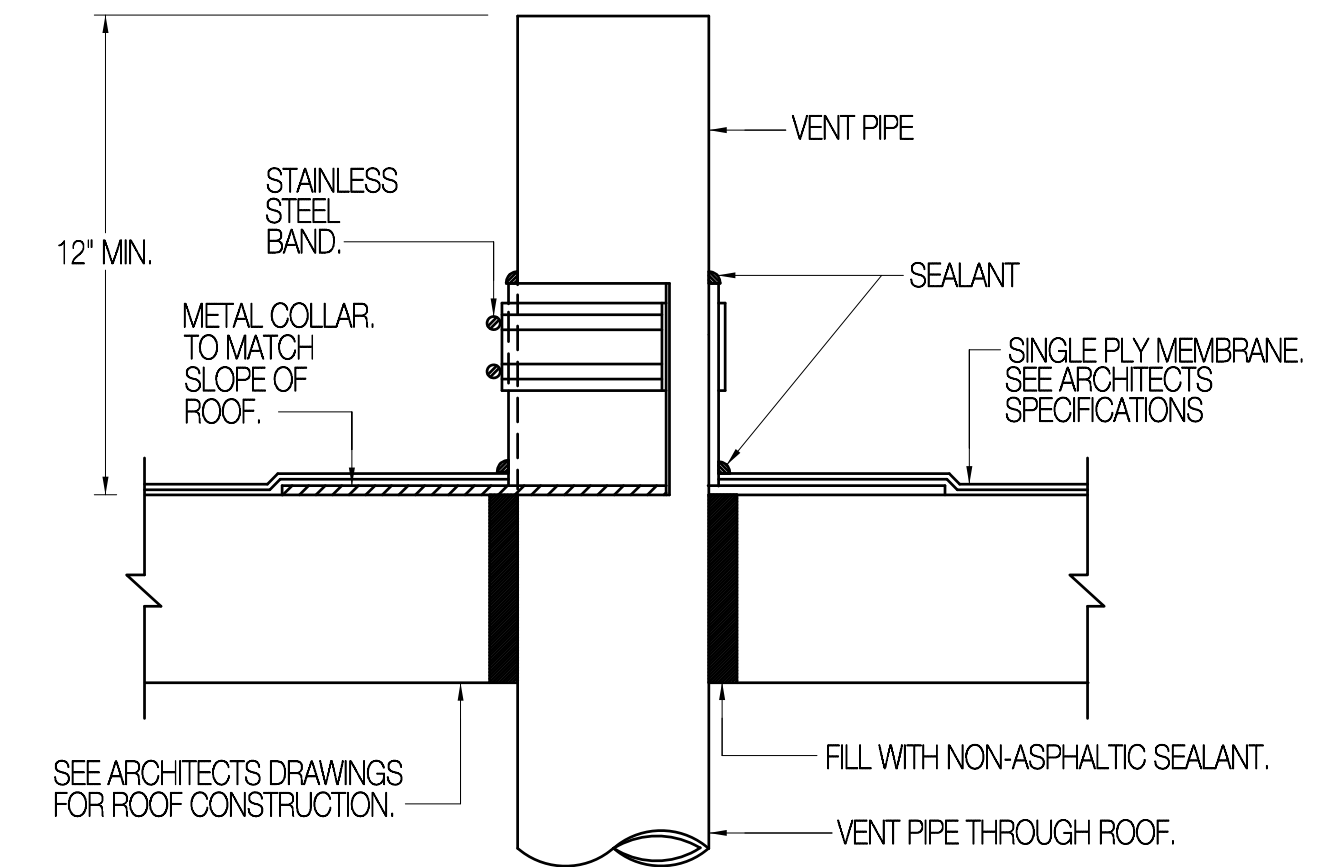
PIPE HANGER DETAIL

SCALE: NONE



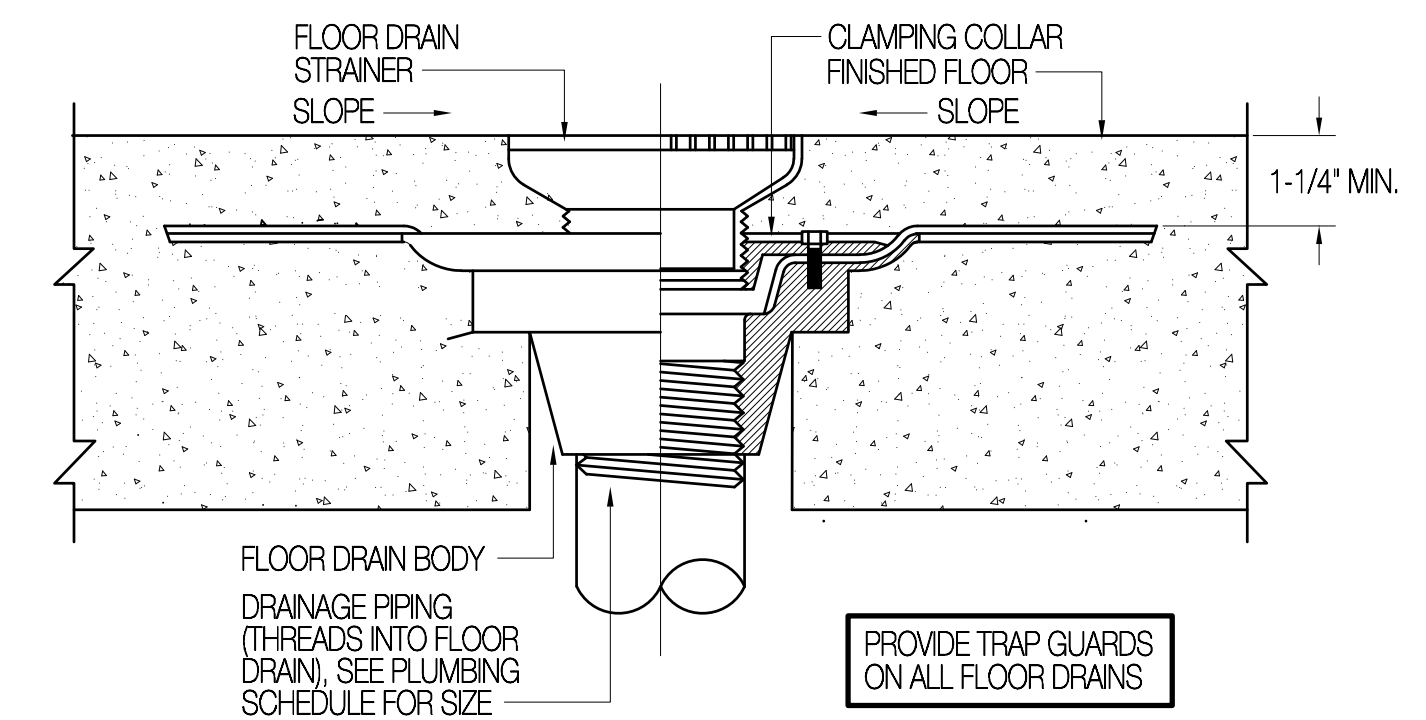
TEMPERING VALVE DETAIL

SCALE: NONE



TYPICAL VENT THRU ROOF DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE

Project Name

DA VINCI ACADEMY
850 WEST 350 NORTH
KAYSVILLE, UTAH 84037

Project Number

5319

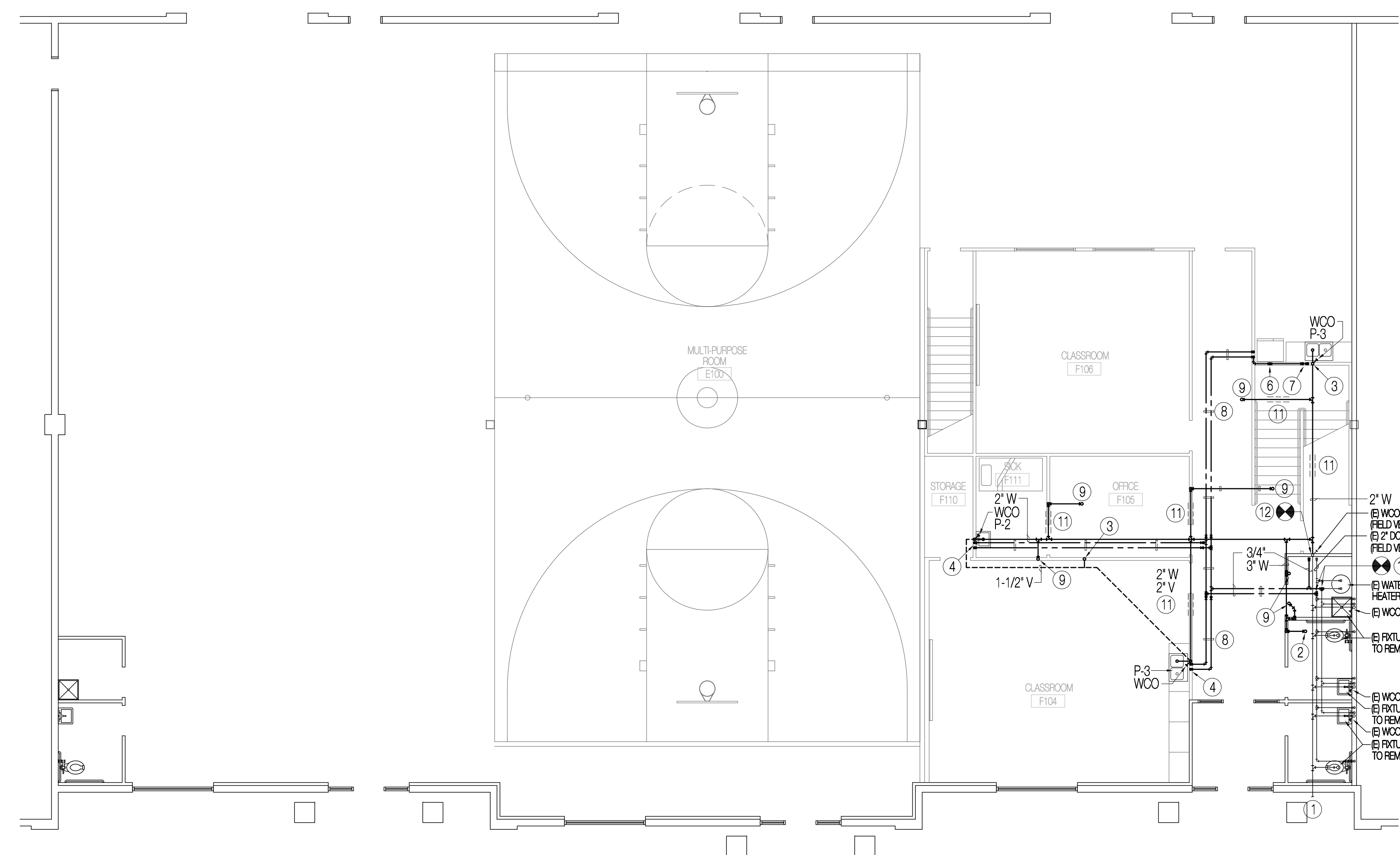
Issue Date

01/07/20

Drawing Title
PLUMBING SCHEDULES AND SYMBOL LEGEND

Sheet Number

P-000

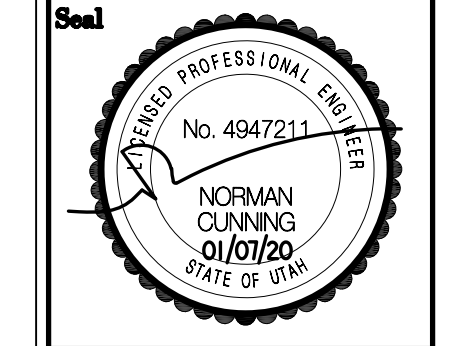


MAIN FLOOR PLUMBING PLAN
 SCALE 3/16" = 1'-0"
 NORTH

DRAWING NOTES

- ① FIELD VERIFY EXACT LOCATION, SIZE AND FLOW DIRECTION OF EXISTING UNDERGROUND WASTE PIPING AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
- ② 3" WASTE PIPING RISE TO FIXTURES ON SECOND FLOOR. SEE SECOND FLOOR PLUMBING PLAN THIS SHEET FOR CONTINUATION.
- ③ 2" VENT PIPING RISE TO SECOND FLOOR. SEE SECOND FLOOR PLUMBING PLAN THIS SHEET FOR CONTINUATION.
- ④ 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE PIPING AT FAUCET ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
- ⑤ 1/2" DOMESTIC COLD WATER AND 1/2" DOMESTIC HOT WATER PIPING DROPS TO WALL MOUNTED FAUCET. TERMINATE PIPING AT FAUCET ROUGH-IN HEIGHT WITH PIPE NIPPLE AND INSTALL FAUCET AS REQUIRED BY SPECIFICATION.
- ⑥ 1/2" DOMESTIC COLD WATER PIPING DROP TO GUY GRAY MODEL AB-9700 (OR EQUAL) ICE MAKER BOX. INSTALL BOX AT REQUIRED ROUGH-IN HEIGHT READY FOR CONNECTION TO OWNERS FRIDGE.
- ⑦ 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
- ⑧ PIPE SUPPORT, SEE DETAIL 5/P-000.
- ⑨ 2" WASTE PIPING RISE TO SECOND FLOOR. SEE SECOND FLOOR PLUMBING PLAN THIS SHEET FOR CONTINUATION.
- ⑩ FIELD VERIFY EXACT LOCATION EXISTING WATER UTILITIES AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
- ⑪ SAWCUT EXISTING FLOOR IN THIS AREA AS REQUIRED TO INSTALL NEW UNDERGROUND UTILITIES.
- ⑫ FIELD VERIFY EXACT LOCATION EXISTING WASTE UTILITIES AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.

Revisions	Date



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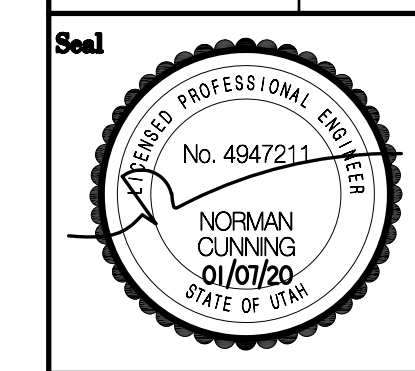
Project Name
DA VINCI ACADEMY
850 WEST 350 NORTH
KAYSVILLE, UTAH 84037

Project Number	Issue Date
5319	01/07/20

Drawing Title
FIRST FLOOR PLUMBING PLAN

Sheet Number
P-100

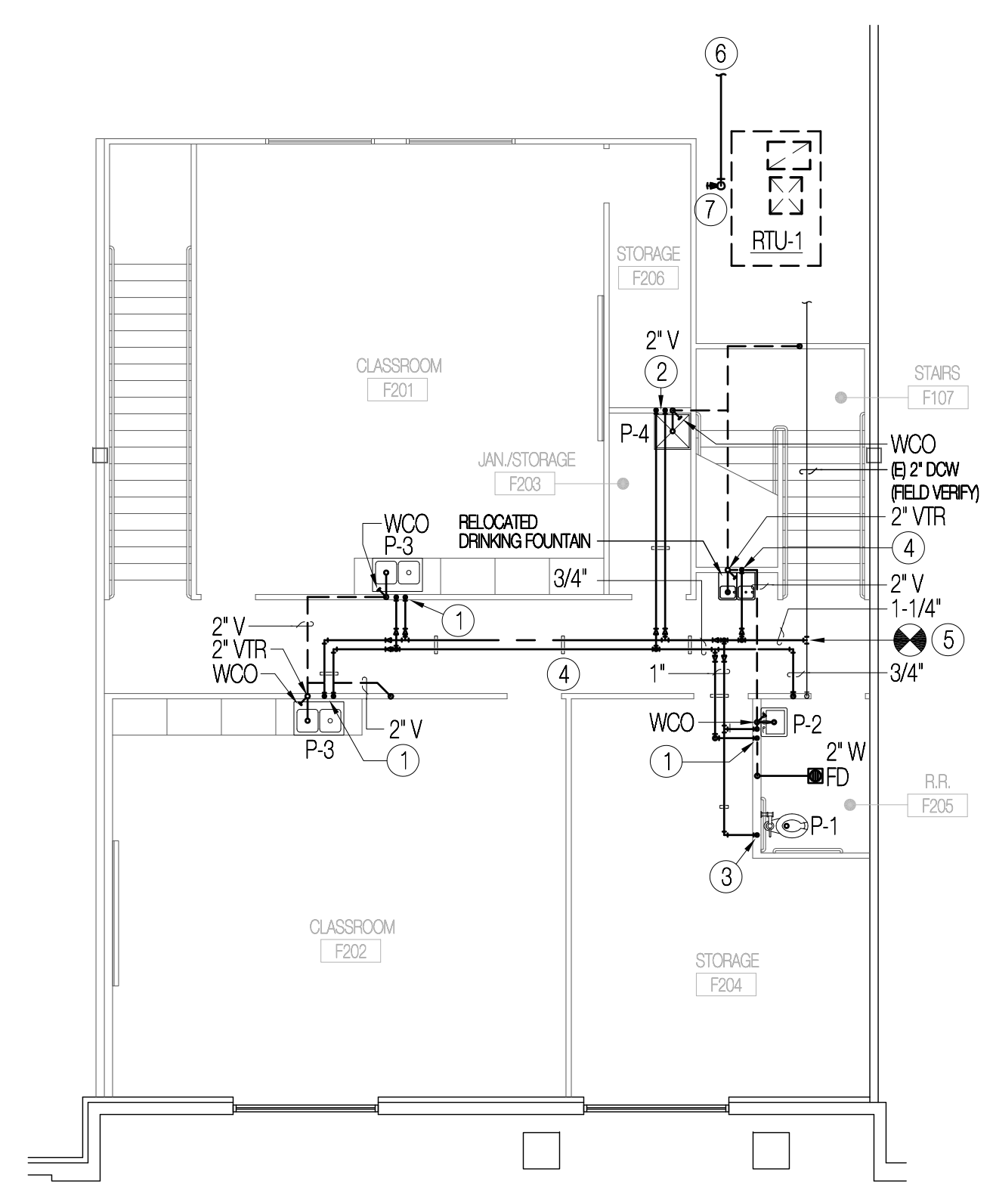
Revisions	Date



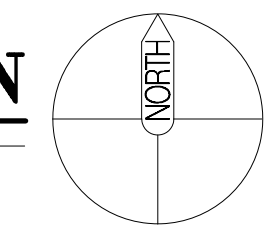
Consultant:
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Cunning & Associates
 468 W. 11600 N. Tremonton, UT 84317
 Email: norm@mcengineering.com
 Ph: (801) 726-0917

DRAWING NOTES

- ① 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
- ② 1/2" DOMESTIC COLD WATER AND 1/2" DOMESTIC HOT WATER PIPING DROPS TO WALL MOUNTED FAUCET. TERMINATE PIPING AT FAUCET ROUGH IN HEIGHT WITH PIPE NIPPLE AND INSTALL FAUCET AS REQUIRED BY SPECIFICATION.
- ③ 1" DOMESTIC COLD WATER PIPING DROP TO FLUSH VALVE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH PIPE NIPPLE AND INSTALL FLUSH VALVE TRIM AS REQUIRED BY SPECIFICATION. PROVIDE WATER HAMMER ARRESTOR WITH SHUTOFF VALVE AND LOCKING ACCESS DOOR ON ACCESSIBLE SIDE OF TOILET NEAR FLOOR.
- ④ PIPE SUPPORT, SEE DETAIL 5/P-000.
- ⑤ FIELD VERIFY EXACT LOCATION EXISTING WATER UTILITIES AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
- ⑥ FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING GAS PIPING. EXTEND NEW GAS PIPING TO EXISTING AND CONNECT UTILIZING LIKE MATERIALS.
- ⑦ 1/2" (2H) GAS PIPING RISE TO ROOFTOP MECHANICAL EQUIPMENT. TERMINATE GAS PIPING WITH PRESSURE REGULATOR, DIRT LEG AND FLEXIBLE CONNECTION PER GAS FLOW DIAGRAM SHEET P-400.



SECOND FLOOR PLUMBING PLAN
 SCALE 1/8" = 1'-0"



Project Name
DA VINCI ACADEMY
850 WEST 350 NORTH
KAYSVILLE, UTAH 84037

Project Number	Issue Date
6319	01/07/20

Drawing Title
SECOND FLOOR PLUMBING PLAN

Sheet Number
P-101

SYMBOL LEGEND					
	SIDEWALL GRILLE		ROUND SUPPLY AIR DUCT CROSS SECTION	A.F.F.	ABOVE FINISHED FLOOR
	SUPPLY AIR DIFFUSER		HAND DAMPER, SEE DETAIL 9M-500	HET	HIGH EFFICIENCY TAKEOFF
	RETURN OR EXHAUST GRILLE		RISE OR DROP IN DUCT	A.L.	ACOUSTICAL LINING
	ACOUSTICALLY LINED DUCTWORK (INSIDE CLEAR DIMENSION)		THERMOSTAT	S.A.	SUPPLY AIR
	SLOPE IN DUCT, SEE SECTIONS FOR SLOPE DIRECTION		SUPPLY AIR DIRECTION	R.A.	RETURN AIR
	RECTANGULAR SUPPLY AIR DUCT CROSS SECTION		RETURN AIR DIRECTION	NK	NECK

CEILING EXHAUST FANS (CEF)									
SYMBOL	MINIMUM CFM	TOTAL STATIC PRESSURE IN. WG.	ELECTRICAL REQUIREMENTS				BROAN MODEL	SERVICE	REMARKS
			VOLTS	PH.	HZ.	WATTS			
CEF-1	100	0.375"	120	1	60	87	L150MG	R.R. 118	-
CEF-2	100	0.375"	120	1	60	87	L150MG	R.R. 119	-

① CAPACITIES AT JOB SITE ELEVATION.

GRILLES AND DIFFUSERS					
SYMBOL	CFM	NECK SIZE	FACE SIZE	KRUEGER MODEL	REMARKS
S-1	AS NOTED	AS NOTED	AS NOTED	1400	-
S-2	AS NOTED	AS NOTED	AS NOTED	SH	-
R-1	AS NOTED	AS NOTED	AS NOTED	6490	-
TG-1	AS NOTED	AS NOTED	AS NOTED	S85H	-

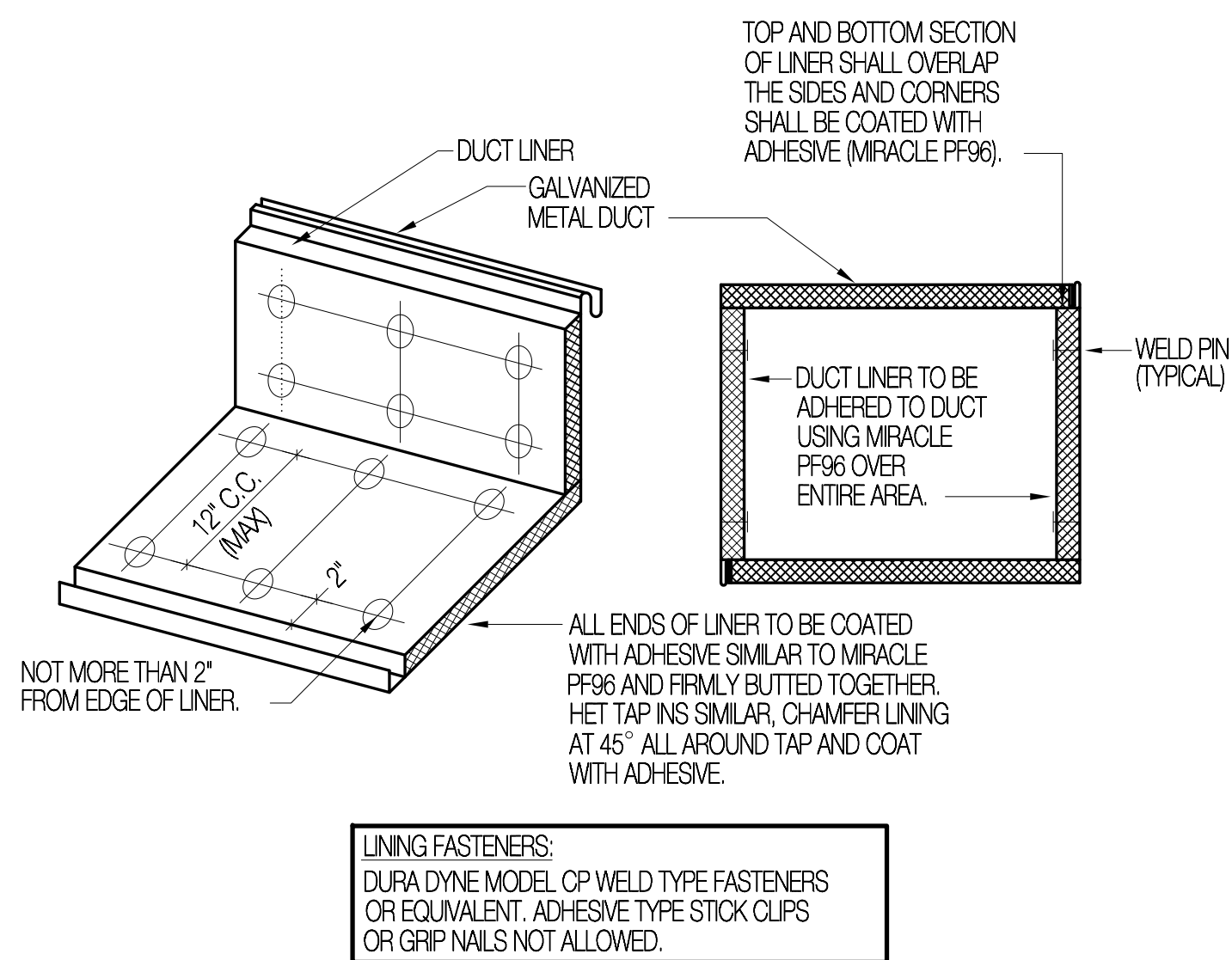
HEATING/COOLING ROOFTOP UNIT (RTU)																		
SYMBOL	HEATING SECTION		COOLING SECTION		FAN SECTION			COND. COIL AREA (SQ. FT.)	COND. COIL CFM	AMB. AIR TEMP.	MIN. EER	UNIT ELEC. REQUIREMENTS				YORK MODEL	REMARKS	
	HEATING INPUT (BTUH)	HEATING OUTPUT (BTUH)	TOTAL CAP. (BTUH)	SENS. CAP. (BTUH)	CFM	E.S.P. (IN. WG.)	MOTOR HP					VOLTS	PH.	HZ.	MCA			MCCP
RTU-1	180,000	144,000	83,800	80,200	2,985	1.2	3.0	18.5	7,600	95°F	11.2	208	3	60	49.8	60	ZF090	(1)(2)(3)(4)(5)(6)(14)(15)

① CAPACITY REQUIRED AT SITE ELEVATION AND CONDITIONS. ④ BELT DRIVE
 ② PROVIDE UNIT WITH 120 V CONVENIENCE OUTLET. ⑤ PROVIDE UNIT WITH RETURN AIR SMOKE DETECTOR.
 ③ FACTORY INSTALLED ECONOMIZER W/ BARO. RELIEF. ⑥ BALANCE OUTSIDE AIR TO 265 CFM. ⑦ HOT GAS BYPASS (ZONE CONTROL)
 ⑧ HI/LOW LIMIT SWITCHES (ZONE CONTROL)

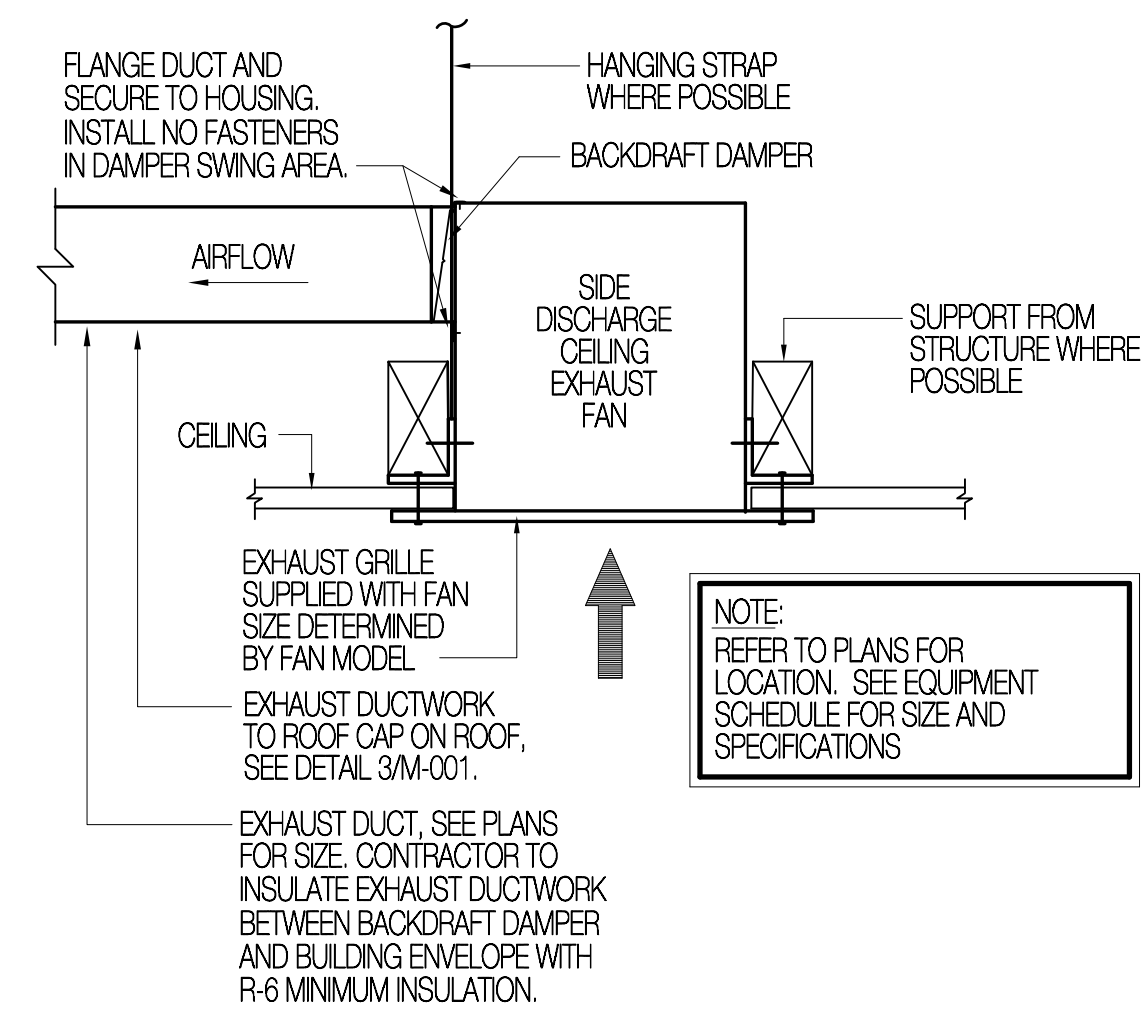
UNIT WEIGHTS:
 RTU-1: 880 LBS.

GENERAL NOTES

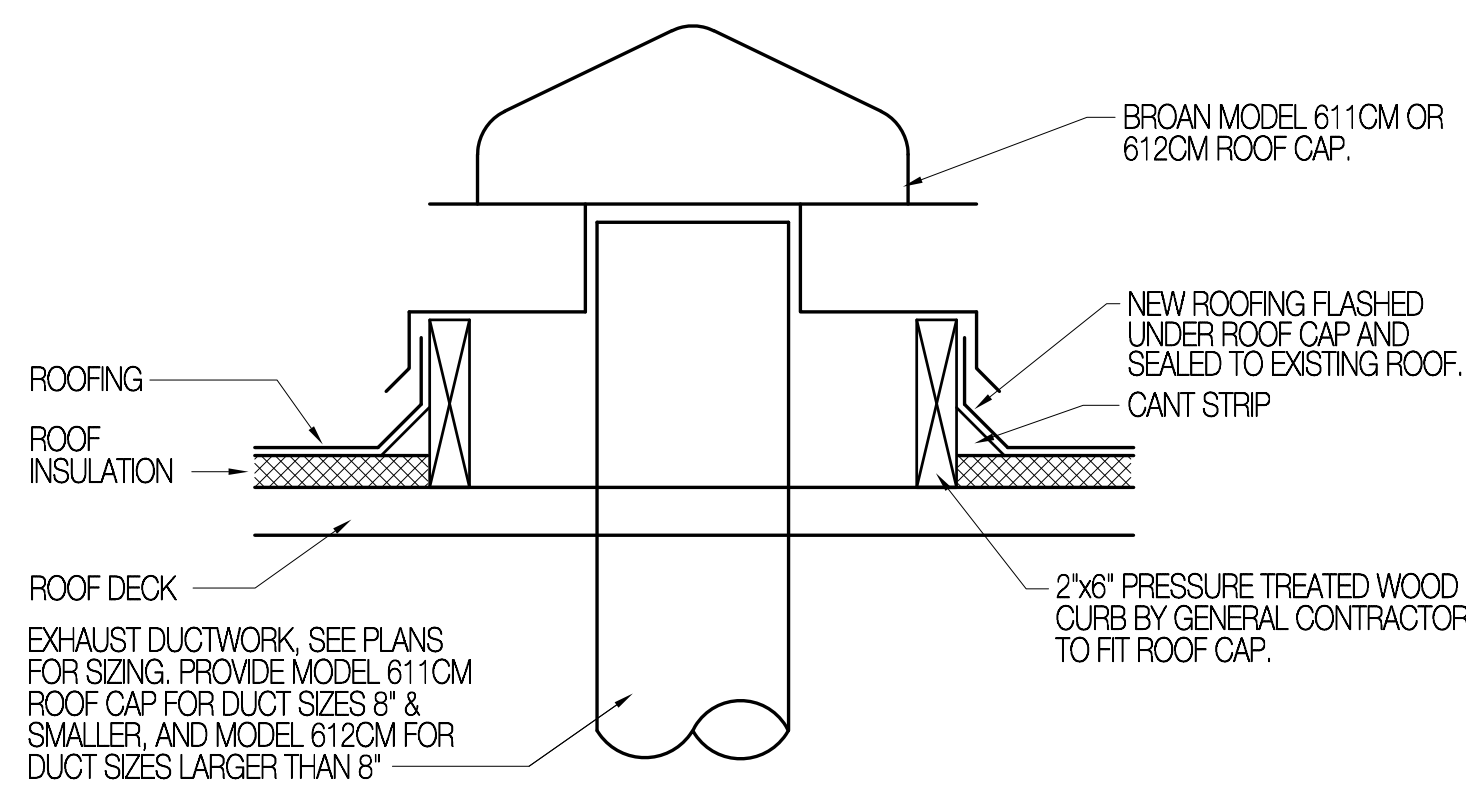
- ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL ASPECTS OF THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING PROPOSALS. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION 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 ECC INCLUDING: MINIMUM R-6 INSULATION ON ALL NON-ACOUSTICALLY LINED DUCTWORK; ACOUSTICAL LINER SHALL PROVIDE A MINIMUM OF R-6 INSULATING VALUE. ALL DOMESTIC WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" FIBERGLASS INSULATION. PROVIDE DEMAND CONTROL VENTILATION FOR THE MULTI PURPOSE ROOM PER SHEET M-700.



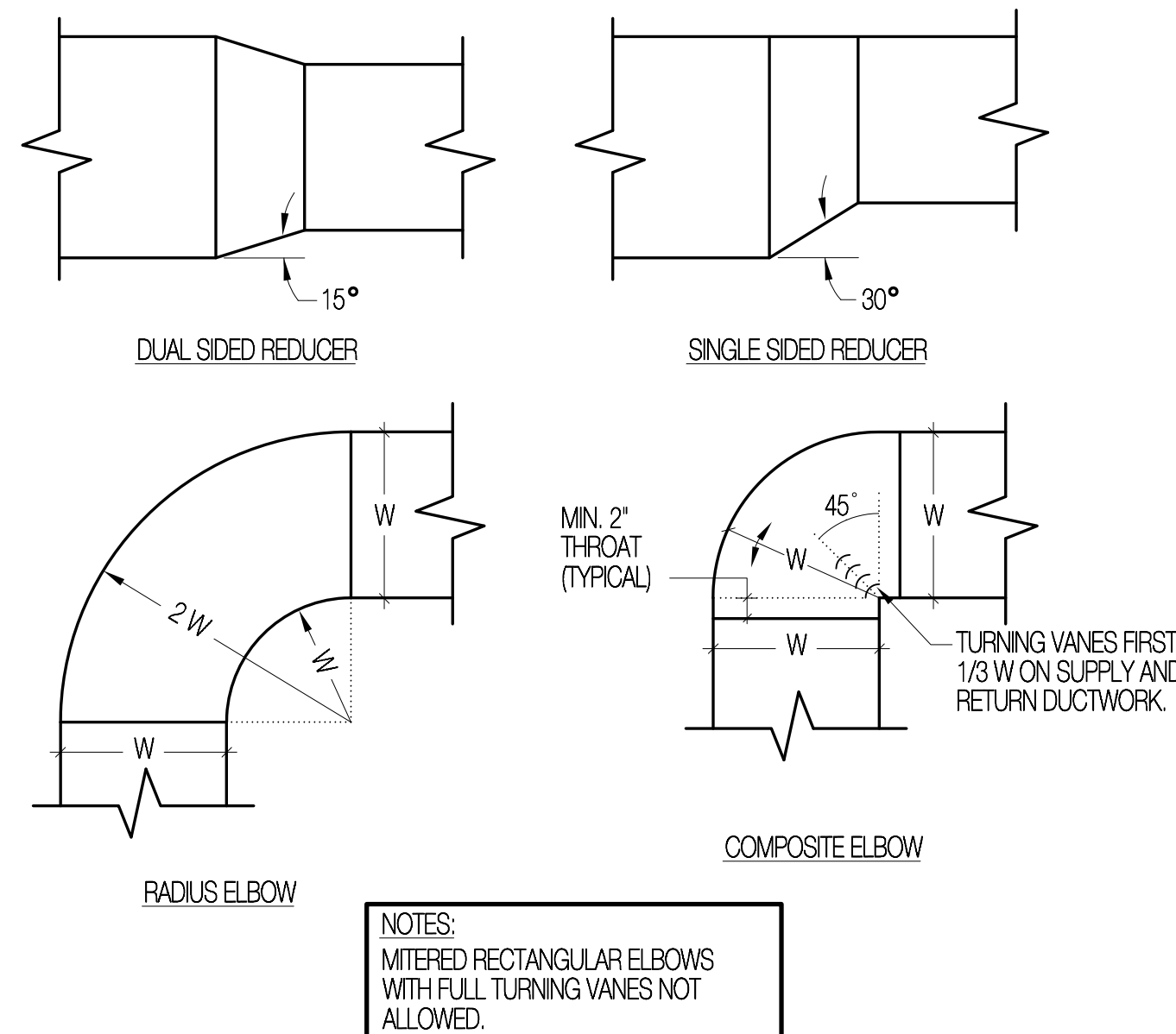
⑦ ACOUSTICAL LINER DETAIL
 SCALE: NONE



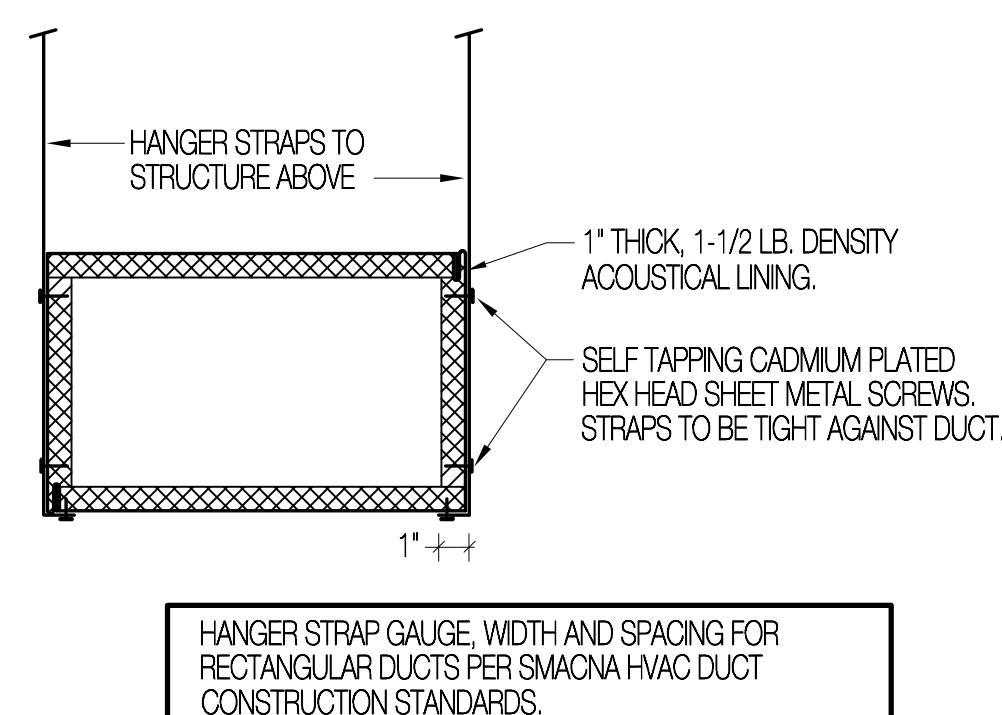
⑤ CEILING EXHAUST FAN DETAIL
 SCALE: NONE



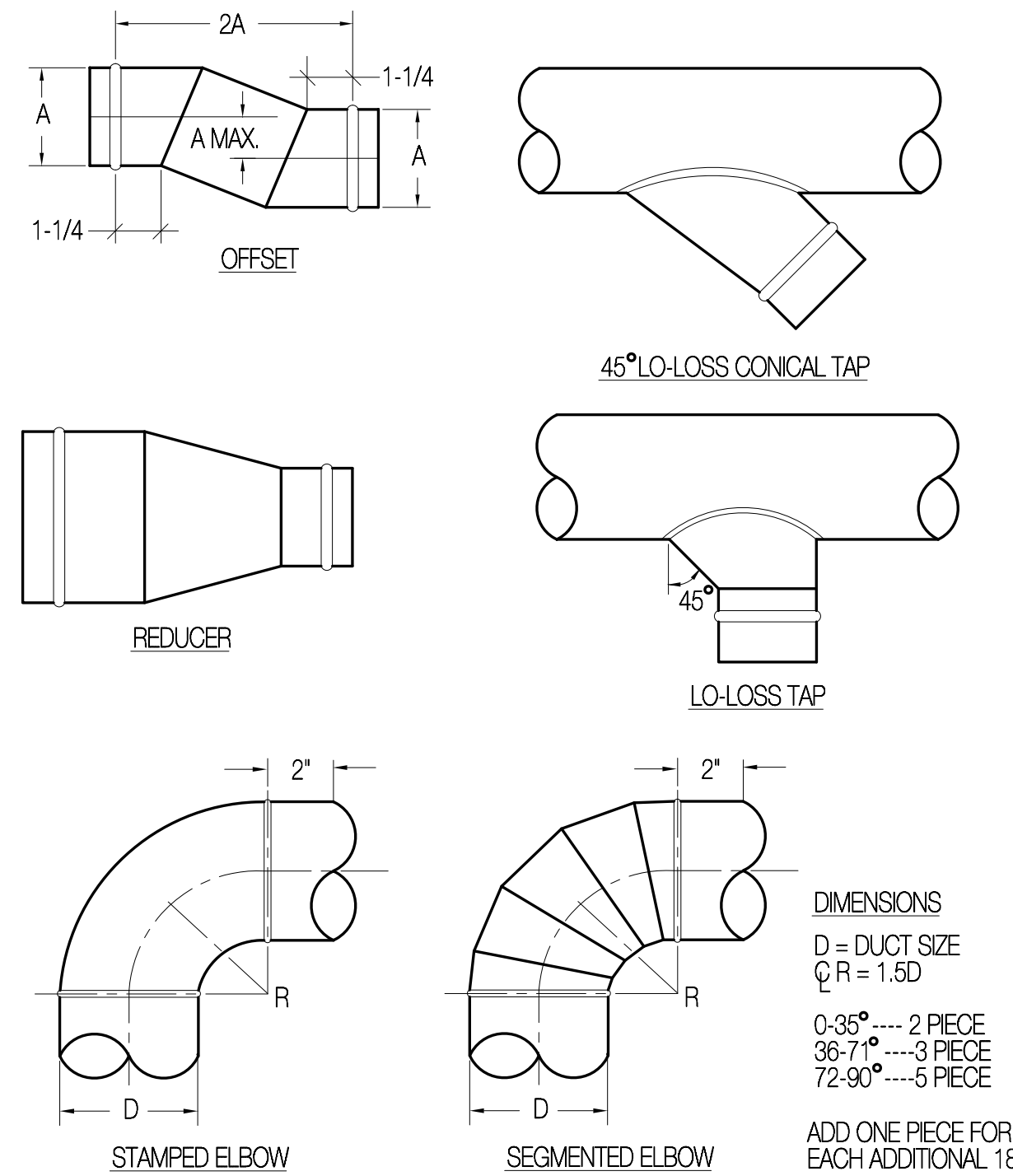
⑥ EXHAUST ROOF CAP DETAIL
 SCALE: NONE



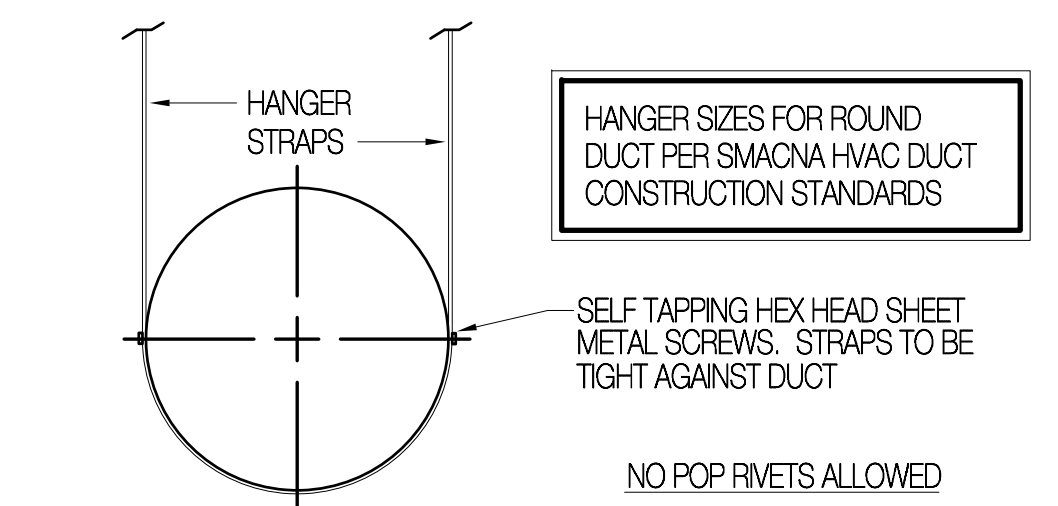
③ RECTANGULAR DUCT FITTINGS
 SCALE: NONE



④ RECT. DUCT HANGER DETAIL
 SCALE: NONE



① ROUND DUCT FITTINGS
 SCALE: NONE



② RND. DUCT HANGER DETAIL
 SCALE: NONE

Revisions

Date

Seal

Consultant:

Mechanical Consulting Engineers

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Project Name

DA VINCI ACADEMY
 850 WEST 350 NORTH
 KAYSVILLE, UTAH 84037

Project Number

5319

Issue Date

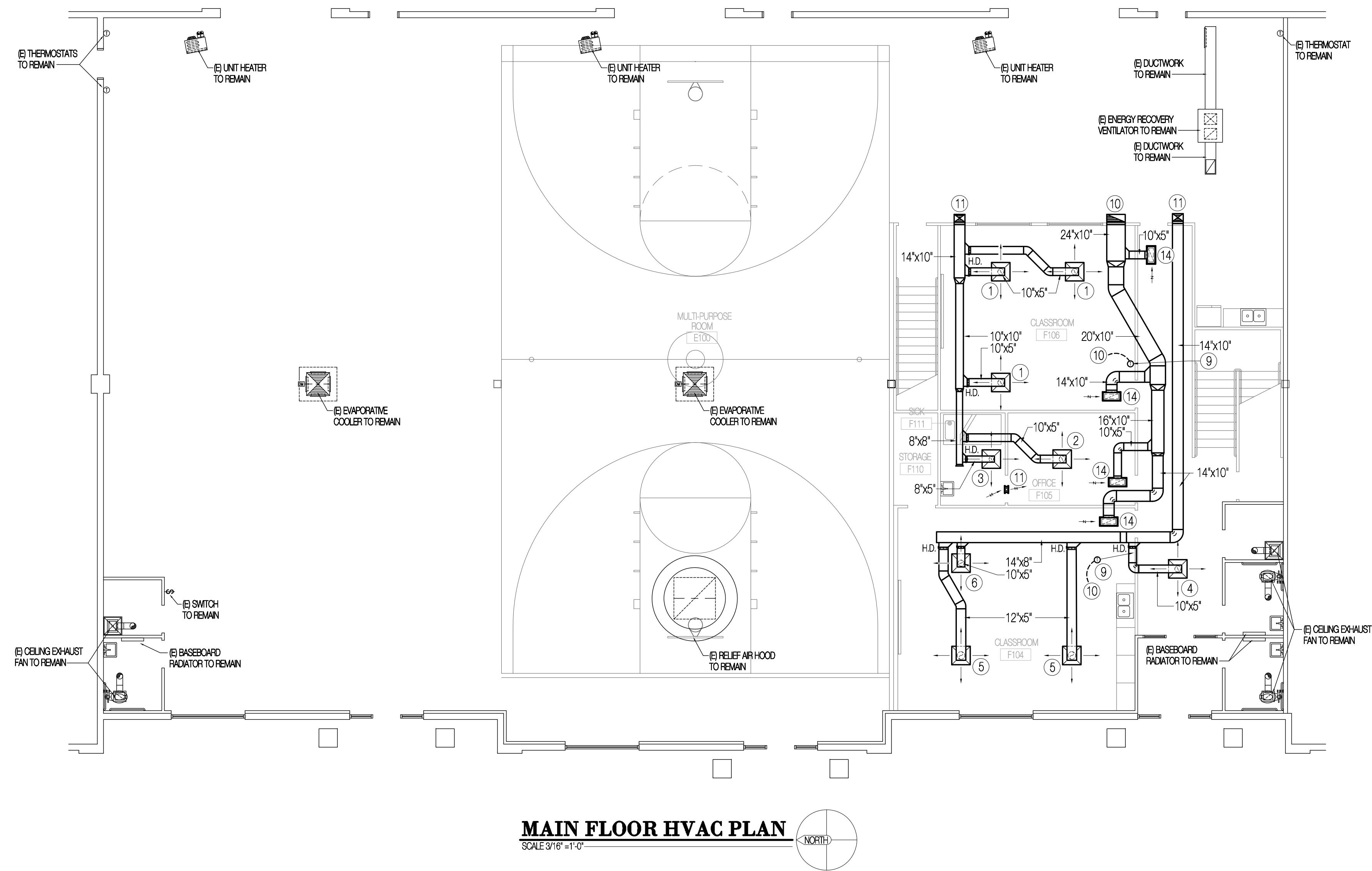
01/07/20

Drawing Title

MECHANICAL SCHEDULES AND SYMBOL LEGEND

Sheet Number

M-000



MAIN FLOOR HVAC PLAN
SCALE 3/16" = 1'-0"

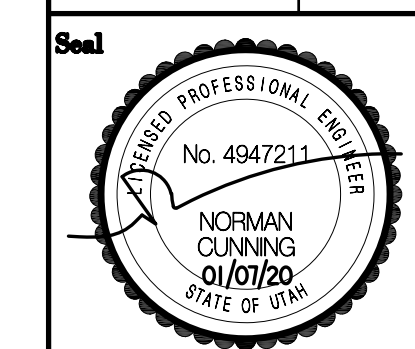
DRAWING NOTES

- 1 [S-1] 185 CFM, 8'0" NK. S.A. DIFFUSER.
- 2 [S-1] 105 CFM, 8'0" NK. S.A. DIFFUSER.
- 3 [S-1] 75 CFM, 6'0" NK. S.A. DIFFUSER.
- 4 [S-1] 125 CFM, 8'0" NK. S.A. DIFFUSER.
- 5 [S-2] 275 CFM, 10'0" NK. S.A. DIFFUSER.
- 6 [S-1] 150 CFM, 8'0" NK. S.A. DIFFUSER.
- 7 PROVIDE AND INSTALL NEW THERMOSTAT, MOUNT THERMOSTAT AT 48" A.F.F. SEE CONTROL DIAGRAMS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 8 CONTROL WIRING FROM THERMOSTATS TO ZONE CONTROLLER. SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 9 [TG-1] 8'x8" NK. T.A. GRILLE. TYPICAL OF ONE GRILLE EACH SIDE WITH INTERCONNECTING DUCT.
- 10 24'x10" RETURN DUCTWORK RISE TO SECOND FLOOR, SEE SECOND FLOOR HVAC PLAN THIS SHEET FOR CONTINUATION.
- 11 14'x10" SUPPLY DUCTWORK RISE TO SECOND FLOOR, SEE SECOND FLOOR HVAC PLAN THIS SHEET FOR CONTINUATION.
- 12 [R-1] 22'x10" NK. R.A. GRILLE WITH ACOUSTICALLY LINED PLENUM AND O.B.D. BALANCE GRILLE TO MATCH SUPPLY CFM.

CEILING PLENUM NOTE

THE CEILING PLENUM IN THIS BUILDING CONTAINS COMBUSTIBLE CONSTRUCTION. ALL RETURN / SUPPLY DUCTWORK SHALL BE CONTINUOUS THROUGH THE PLENUM SPACE. DO NOT USE THE PLENUM SPACE FOR AIR DISTRIBUTION.

Revisions	Date



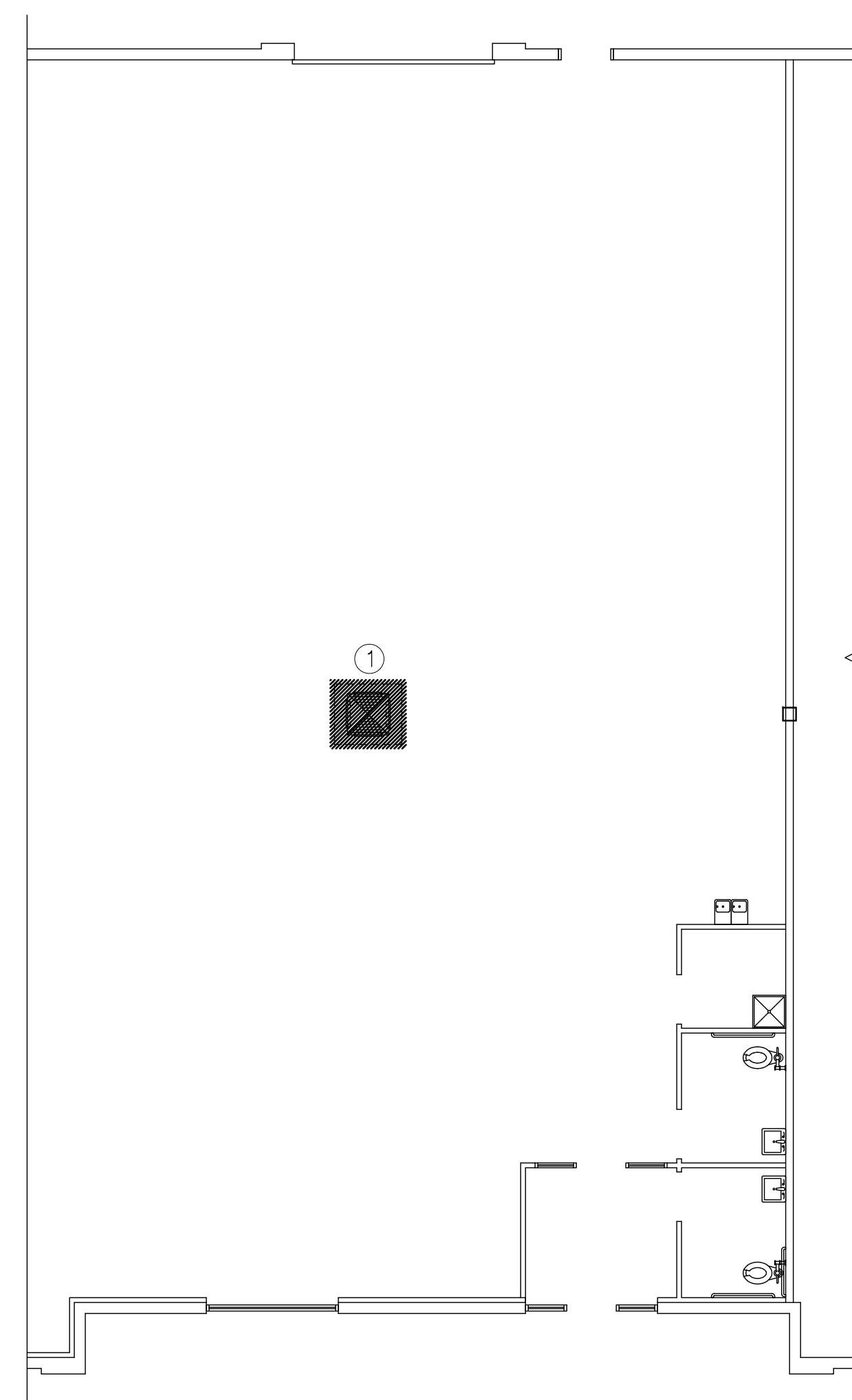
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Project Name
DA VINCI ACADEMY
850 WEST 350 NORTH
KAYSVILLE, UTAH 84037

Project Number	Issue Date
5319	01/07/20

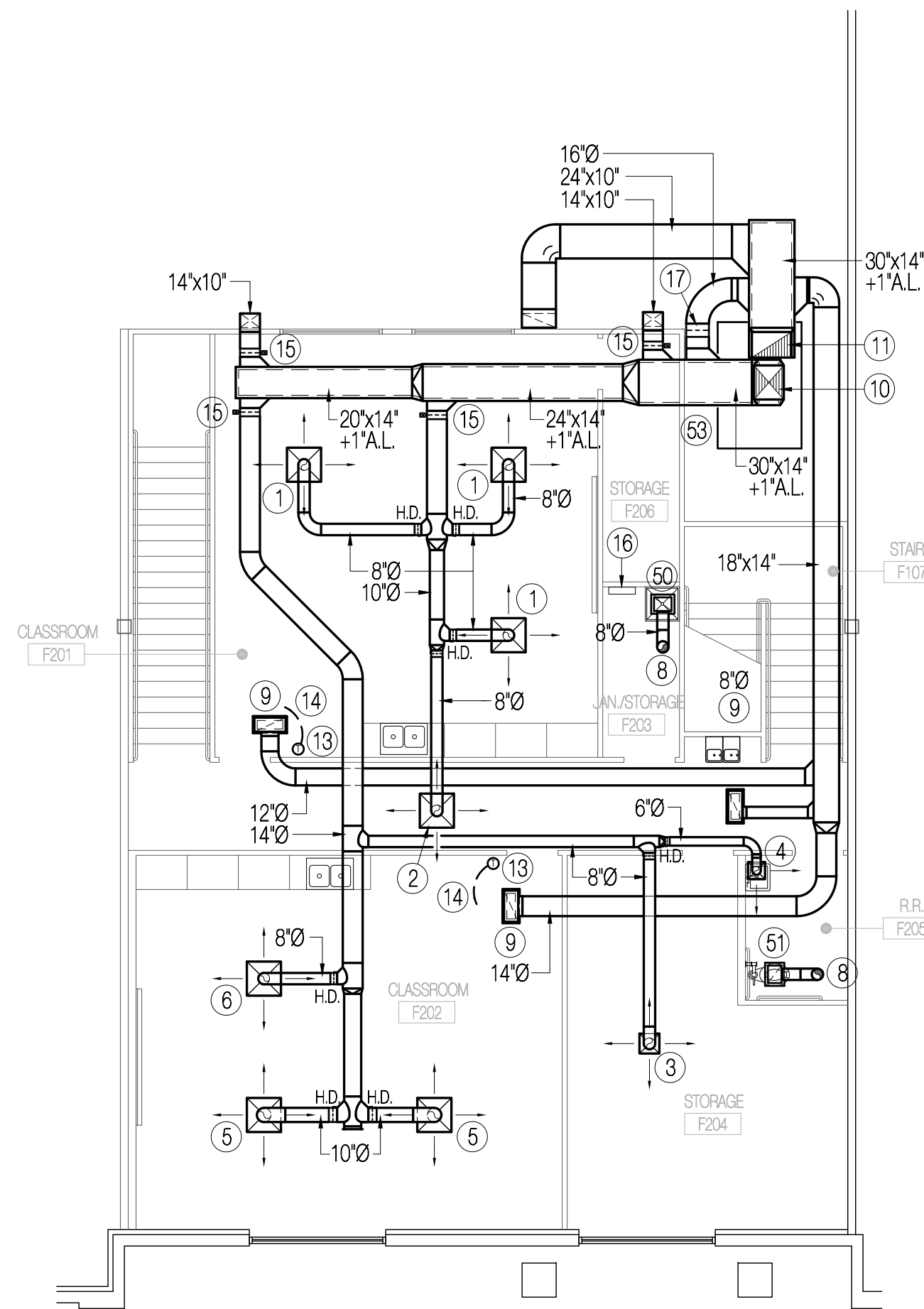
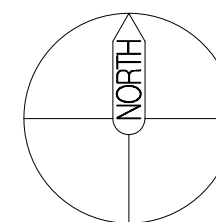
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FIRST FLOOR HVAC PLAN

Sheet Number
M-100



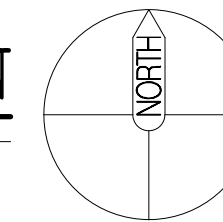
HVAC DEMOLITION PLAN

SCALE 1/8" = 1'-0"



HVAC REMODEL PLAN

SCALE 1/8" = 1'-0"



GENERAL DEMO. NOTES

1. REMOVE ALL PORTIONS OF EXISTING HVAC INSTALLATION NOT REQUIRED TO REMAIN IN SERVICE. FIELD COORDINATE REMOVAL WITH REMODEL PLAN, SHEET M-100 AND REMOVE EXISTING DUCTWORK SYSTEMS COMPLETE INCLUDING: DUCTWORK, DIFFUSERS, ETC PREPARATORY TO NEW WORK.
2. REMOVE ALL PORTIONS OF EXISTING HVAC CONTROL SYSTEMS NOT REQUIRED TO REMAIN IN SERVICE. FIELD COORDINATE REMOVAL WITH REMODEL PLAN, SHEET M-100 AND REMOVE EXISTING CONTROL SYSTEMS COMPLETE INCLUDING: CONTROLS, AND CONTROL WIRING PREPARATORY TO NEW WORK.

DRAWING NOTES

- 1 REMOVE EXISTING EVAPORATIVE COOLER COMPLETE. REMOVAL SHALL INCLUDE UNIT, ALL ASSOCIATED HANGERS, CONTROLS, AND ACCESSORIES PREPARATORY TO NEW WORK.

DRAWING NOTES

- 1 [S-1] 185 CFM, 8"Ø NK. S.A. DIFFUSER.
- 2 [S-1] 125 CFM, 8"Ø NK. S.A. DIFFUSER.
- 3 [S-1] 105 CFM, 8"Ø NK. S.A. DIFFUSER.
- 4 [S-2] 50 CFM, 8"Ø NK. S.A. DIFFUSER.
- 5 [S-1] 275 CFM, 10"Ø NK. S.A. DIFFUSER.
- 6 [S-1] 150 CFM, 8"Ø NK. S.A. DIFFUSER.
- 7 HIGH EFFICIENCY TAKEOFF, TYPICAL.
- 8 8"Ø EXHAUST DUCT RISE TO VENT CAP ON ROOF, SEE DETAIL 6M-700 FOR ADDITIONAL INFORMATION.
- 9 [R-1] 22"x10" NK. R.A. GRILLE WITH ACOUSTICALLY LINED PLENUM AND O.B.D. BALANCE GRILLE TO MATCH SUPPLY CFM.
- 10 30"x14"x1"AL. SUPPLY AIR PLENUM ON BOTTOM OF ROOFTOP UNIT. TRANSITION PLENUM TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 4M-000.
- 11 30"x14"x1"AL. RETURN AIR DUCTWORK ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCTWORK TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 4M-000.
- 13 PROVIDE AND INSTALL NEW THERMOSTAT. MOUNT THERMOSTAT AT 48" A.F.F. SEE CONTROL DIAGRAMS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 14 CONTROL WIRING FROM THERMOSTATS TO ZONE CONTROLLER. SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 15 ZONE CONTROL DAMPER, SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 16 ROOFTOP UNIT ZONE CONTROLLER, SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 17 BYPASS DUCTWORK WITH BAROMETRIC DAMPER, SEE M-700 FOR ADDITIONAL INFORMATION.

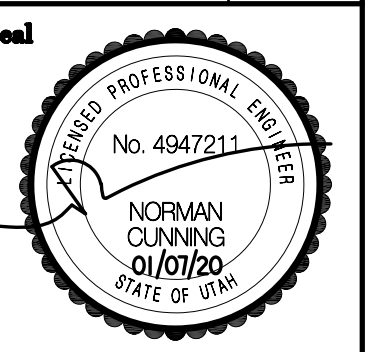
EQUIPMENT NOTES

- 50 [CEF 1] CEILING EXHAUST FAN
- 51 [CEF 2] CEILING EXHAUST FAN
- 53 [RTU 1] ROOFTOP UNIT

CEILING PLENUM NOTE

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Revisions	Date



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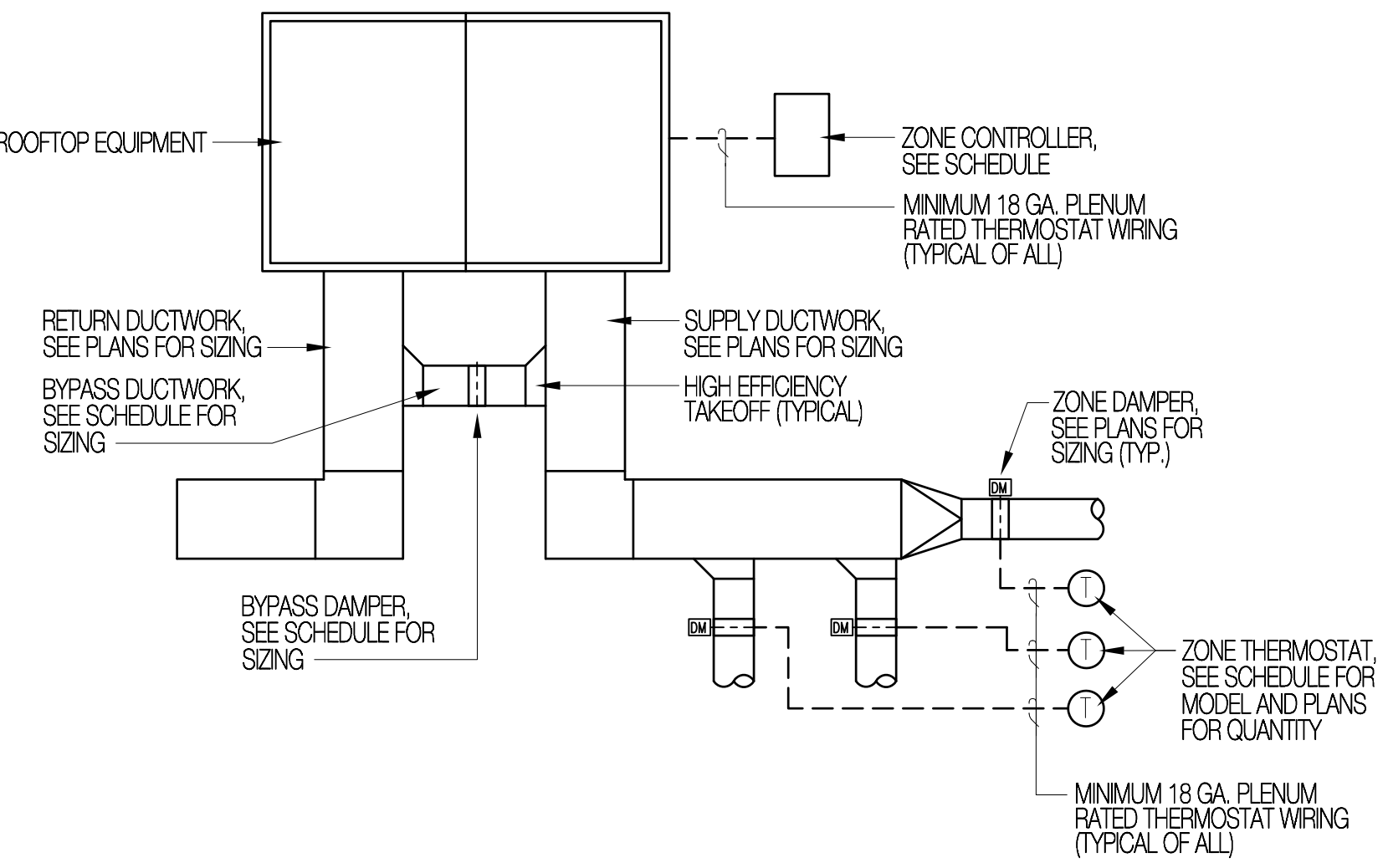
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Drawing Title
SECOND FLOOR HVAC PLAN

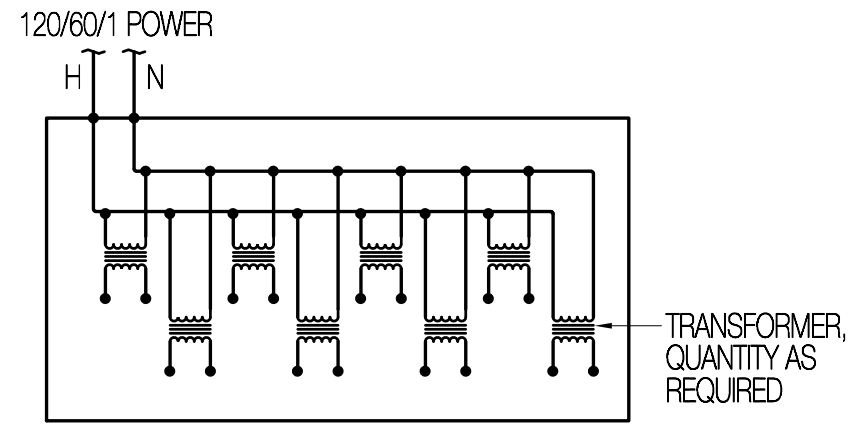
Sheet Number
M-101

ZONE CONTROLLER SCHEDULE										
ZONE	EQUIP. SERVED	NO. OF ZONES	BYPASS DAMPER SIZE	BYPASS DAMPER MFG. / MCD.	BYPASS DAMPER PRESS. SETTING	BYPASS CFM	ZONE DAMPER MANUF. / MODEL	ZONE THERMOSTAT MANUF. / MODEL	ZONEFIRST CONTROLLER MODEL	REMARKS
Z-1	RTU-1	4	16"Ø	ZONEFRST / SPAD	0.30" - 0.60"	2,310	ZONEFRST / RDP	VENSTAR / T2900	MZP4	-

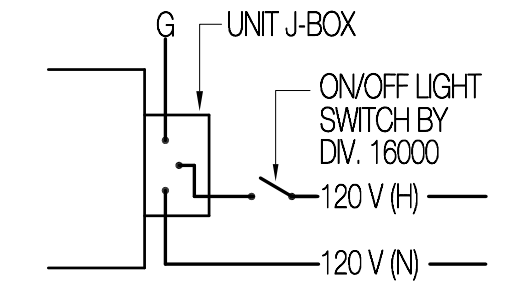


ZONE CONTROLLER SCHEMATIC
TYPICAL OF RTU-1

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

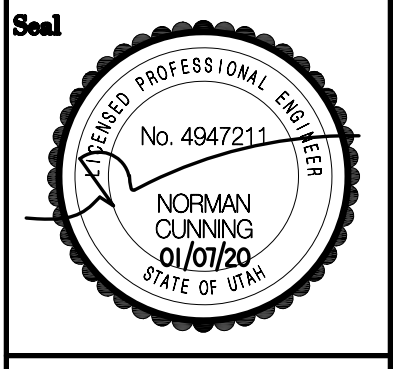


LOW VOLTAGE TRANSFORMER PANEL LVTP
QUANTITY AS REQUIRED, LOCATION AS DIRECTED



CEILING EXHAUST FAN CONTROL DIAGRAM
TYPICAL OF CEILING EXHAUST FANS CEF-1 & 2

Revisions	Date



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Drawing Title
MECHANICAL CONTROLS

Sheet Number
M-700

