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STEAMBOAT SKI & RESORT CORPORATION

SSRC | BASE AREA IMPROVEMENTS

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

BID PACK 3: PROMENADE - ISSUE FOR BID & PERMIT

2021.05.19



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△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA  
IMPROVEMENTS

Project Number

003.7835.000

Description

COVER

Scale

1A-G0.000



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1A-S0.03	NOTES	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S0.10	QUALITY ASSURANCE	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S0.11	QUALITY ASSURANCE	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S1.00	PROMENADE BUILDING - LOWER LEVEL 1	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S1.01	PROMENADE BUILDING - LEVEL 1	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S1.02	PROMENADE BUILDING - LEVEL 2 AND ROOF FRAMING PLAN	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.00	TYPICAL CONCRETE DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.01	FOUNDATIONAL FOUNDATION DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.02	CONCRETE DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.10	TYPICAL SOG DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.11	CONCRETE DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.50	CONCRETE SUPPORTING STEEL DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S3.51	CONCRETE SUPPORTING METAL DECK	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S4.00	MASONRY DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.00	TYP STEEL BEAM CONNS - LRFD	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.01	TYP STEEL BEAM CONNS - LRFD	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.02	STEEL DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.03	STEEL DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.30	TYPICAL COMPOSITE SLAB DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.31	TYPICAL SLAB ON METAL DECK DETAILS	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19
1A-S5.40	PERFORMANCE SPECIFIED FRAMING	-	BP3: PROMENADE - ISSUE FOR BID AND PERMIT	2021.05.19



ACCESSIBILITY NOTES

1. PILE THICKNESS OF SPECIFIED CARPETS DOES NOT EXCEED 1/2".
2. FLOOR SURFACES SPECIFIED ARE SLIP-RESISTANT.
3. ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTE DO NOT EXCEED 1/2" IN HEIGHT. CHANGES BETWEEN 1/4" AND 1/2" ARE BEVELED WITH A SLOPE NO STEEPER THAN 1:2. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
4. LATCHING AND LOCKING DOORS ARE SPECIFIED TO BE OPERABLE WITH A SINGLE EFFORT BY HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. DOOR OPENING HARDWARE IS SPECIFIED TO BE MOUNTED BETWEEN 34" AND 48" ABOVE FLOOR FINISH.
5. CLOSERS FOR FIRE-RATED DOORS ARE SPECIFIED TO BE POWER LEVEL 3 FOR INTERIOR DOORS 38" OR LESS IN WIDTH.
6. MAXIMUM PULL OR PUSH EFFORT TO OPERATE NON-FIRE-RATED DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. SPECIFIED CLOSERS TO BE ADJUSTED TO COMPLY.
7. ALL DOORS ARE SPECIFIED TO BE NOT LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS ARE CAPABLE OF OPENING AT LEAST 90 DEGREES AND CLEAR WIDTH IS NOT LESS THAN 32".
8. FLOOR AREAS ON EACH SIDE OF DOORS ARE SPECIFIED TO BE LEVEL AND CLEAR. THE DIMENSIONS OF THE LEVEL AREAS ARE SPECIFIED TO MEET ANSI A117.3 2003, IAC AND ADA CLEARANCE REQUIREMENTS.
9. FLOORS OR LANDINGS ARE SPECIFIED TO BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" IS SPECIFIED TO BE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.
10. THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR IS SPECIFIED TO BE MARKED WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP IS SPECIFIED TO BE A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.
11. ELECTRICAL RECEPTACLE OUTLETS ARE SPECIFIED TO BE NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.
12. TOILET ROOM ACCESSORIES
  - A. BOTTOM OF MIRROR REFLECTIVE SURFACE IS SPECIFIED TO BE NO HIGHER THAN 40" FROM THE FLOOR.
  - B. TOILET TISSUE DISPENSERS ARE MOUNTED BETWEEN 7" AND 9" FROM THE FRONT EDGE OF THE TOILET SEAT.
  - C. DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS ARE MOUNTED NO HIGHER THAN 48" FROM THE FLOOR.
13. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) IS BETWEEN 17" AND 19".
14. FLUSH CONTROLS ARE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST CLEARANCE FROM ADJACENT WALL, TOILET PARTITION OR OTHER SURFACE.
15. PROVIDE GRAB BARS IN COMPLIANCE WITH ANSI A117.1 ON EACH SIDE, OR ONE SIDE AND BACK OF WATER CLOSET.
  - A. GRAB BARS TO BE 33" ABOVE AND PARALLEL TO THE FLOOR.
  - B. DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2".
  - C. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
  - D. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD.
  - E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
  - F. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
  - G. EDGES SHALL HAVE A MINIMUM RADIUS OF 18".
16. PROVIDE A CLEAR FLOOR SPACE 30" X 48" IS PROVIDED IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.
17. SINKS AND LAVATORIES ARE MOUNTED TO COMPLY WITH KNEESPACE REQUIREMENTS OF ANSI A117.1
18. FAUCET CONTROLS AND OPERATING MECHANISMS ARE TO BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. SELF-CLOSING CONTROLS ARE TO REMAIN OPEN FOR AT LEAST 10 SECONDS.
19. HOT WATER AND DRAIN PIPES UNDER LAVATORIES ARE INSULATED OR OTHERWISE COVERED.
20. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

POWER & COMMUNICATION NOTES

1. PRIOR TO CORING SLAB FOR POWER/COMM POKE-THROUGH DEVICES, COORDINATE LOCATIONS WITH OWNER AND/OR OWNERS FURNISHINGS CONTRACTOR AND REVIEW WITH ARCHITECT.
2. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.
3. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
4. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS NOTED OTHERWISE.
5. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.
6. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.
7. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
8. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT. PROVIDE NON-COMBUSTIBLE BLOCKING WITHIN WALLS AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION.
9. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
10. MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR.

FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
3. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
2. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
3. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
4. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.
5. COORDINATE WORK WITH THE LANDLORD AND OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS.
6. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "N/C" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
7. COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
8. MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
9. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
10. UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.
11. PROVIDE ALL ACCESS PANELS REQUIRED FOR ALL JUNCTION BOXES, VALVES, CLEANOUTS, PLUGS, FILTERS, EQUIPMENT, AND ALL OTHER ITEMS REQUIRING SERVICE OR MAINTENANCE.
12. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
13. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
14. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED.
15. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.
16. PROVIDE CONCEALED BLOCKING AS REQUIRED FOR WORK BY OWNERS' OTHER CONTRACTORS. COORDINATE WITH OTHER CONTRACTORS FOR SIZE, TYPE AND LOCATION OF REQUIRED BLOCKING.
17. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.

FIRE PREVENTION NOTES

1. EVERY EXIT DOOR IS SPECIFIED TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY AND WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
2. INTERIOR WALL AND CEILING FINISHES ARE SPECIFIED TO BE CLASS 2 (FLAME SPREAD 26-75, SMOKE DEVELOPED 450 OR LESS) OR BETTER.
3. INTERIOR TRIM IS SPECIFIED TO BE CLASS 3 (FLAME SPREAD 76 TO 200, SMOKE DEVELOPED 450 OR LESS) OR BETTER.
4. INTERIOR TRIM FOR CEILINGS IS SPECIFIED TO BE 10% OR LESS OF TOTAL CEILING AREA. INTERIOR TRIM FOR WALLS IS SPECIFIED TO BE 20% OR LESS OF TOTAL WALL AREA.
5. THIS PROJECT DOES NOT INCLUDE STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS OR HAZARDOUS SUBSTANCES.
6. ALL WOOD BLOCKING, CLEATS, GROUNDS, SHEATHING AND OTHER MISC. CARPENTRY ITEMS SHALL BE FIRE RETARDANT TREATED.
7. FLOOR COVERINGS FOR CORRIDORS, LOBBIES, STAIRS, OTHER EXIT PATHS OR EXIT AREAS ARE SPECIFIED TO BE CLASS B OR BETTER.
8. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, WITHIN ELECTRICAL AND MECHANICAL ROOMS, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY GOVERNING AUTHORITIES. PROVIDE PORTABLE FIRE EXTINGUISHER COMPATIBLE WITH AUTOMATIC FIRE EXTINGUISHING SYSTEM AGENT AND IN ACCORDANCE WITH SECTION 904.12.5 OF THE IFC, AND WITHIN 30 FT OF COMMERCIAL KITCHEN EQUIPMENT.
9. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
10. PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.
11. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
12. DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
13. 20-MINUTE DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
14. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING 50 OR MORE PERSONS AND IN ANY HAZARDOUS AREA.
15. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER.
16. PROVIDE FIRE DAMPERS, FIRE SMOKE DAMPERS OR DOORS WHERE DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS. TYPICAL ALL AREAS. COORDINATE WITH EOR TO ENSURE FIRE SMOKE OR SMOKE DAMPER ARE REQUIRED AT LOCATIONS. WORK PERFORMANCE WITH OUT CLARIFICATION OR COORDINATION SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE GC.
17. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH UNIFORM, FIRE CODE REGULATIONS.
18. EXTEND OR MODIFY EXISTING FIRE LIFE SAFETY SYSTEM AS REQUIRED TO PROVIDE AN APPROVED FIRE/ LIFE SAFETY SYSTEM FOLLOWING APPROVAL BY LANDLORD'S LIFE SAFETY ENGINEER. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
19. LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
20. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
21. EXTEND OR MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS REQUIRED TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM FOLLOWING APPROVAL BY LANDLORD'S LIFE SAFETY ENGINEER. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
22. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

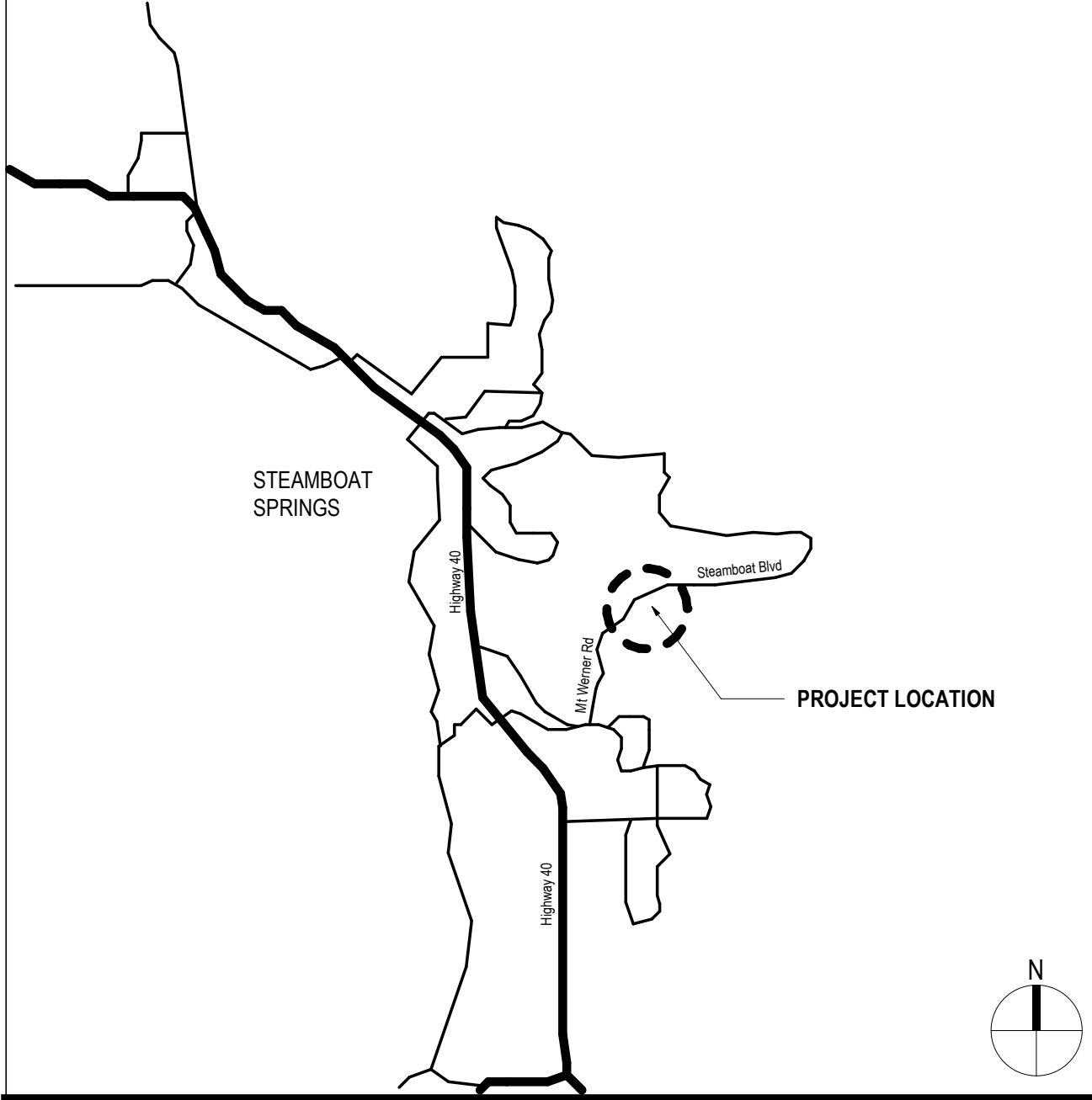
DEMOLITION NOTES

1. REMOVE DESIGNATED PARTITIONS, CEILINGS COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
2. REMOVE EXISTING WORK AS REQUIRED TO ACCOMMODATE NEW WORK, EVEN WHERE NOT EXPRESSLY INDICATED ON DEMOLITION PLANS.
3. REMOVE ABANDONED HVAC EQUIPMENT, DUCT WORK, CONTROLS, REGISTERS, GRILLES AND ALL ASSOCIATED HARDWARE & ACCESSORIES.
4. REMOVE ABANDONED ELECTRICAL, TELEPHONE, DATA, SECURITY AND SIMILAR OTHER CABLING, CONDUIT, EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED.
5. REMOVE ABANDONED ELECTRICAL, TELEPHONE, DATA, SECURITY AND SIMILAR OTHER CABLING, CONDUIT, EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED.
6. REMOVE ABANDONED PLUMBING EQUIPMENT, VALVES, PIPING AND ALL ASSOCIATED HARDWARE & ACCESSORIES.
7. REMOVE EXISTING FLOOR FINISHES WHERE INDICATED AND PREPARE SUBFLOOR AS REQUIRED FOR NEW FLOOR FINISHES.
8. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
9. PROVIDE AND MAINTAIN BARRICADES, LIGHTING, AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
10. ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
11. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.
12. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. LEAVE ALL AREAS BROOM CLEAN DAILY.
13. NO EXISTING LANDLORD WORK SHALL BE REMOVED UNLESS SUCH REMOVAL IS APPROVED IN WRITING BY LANDLORD.

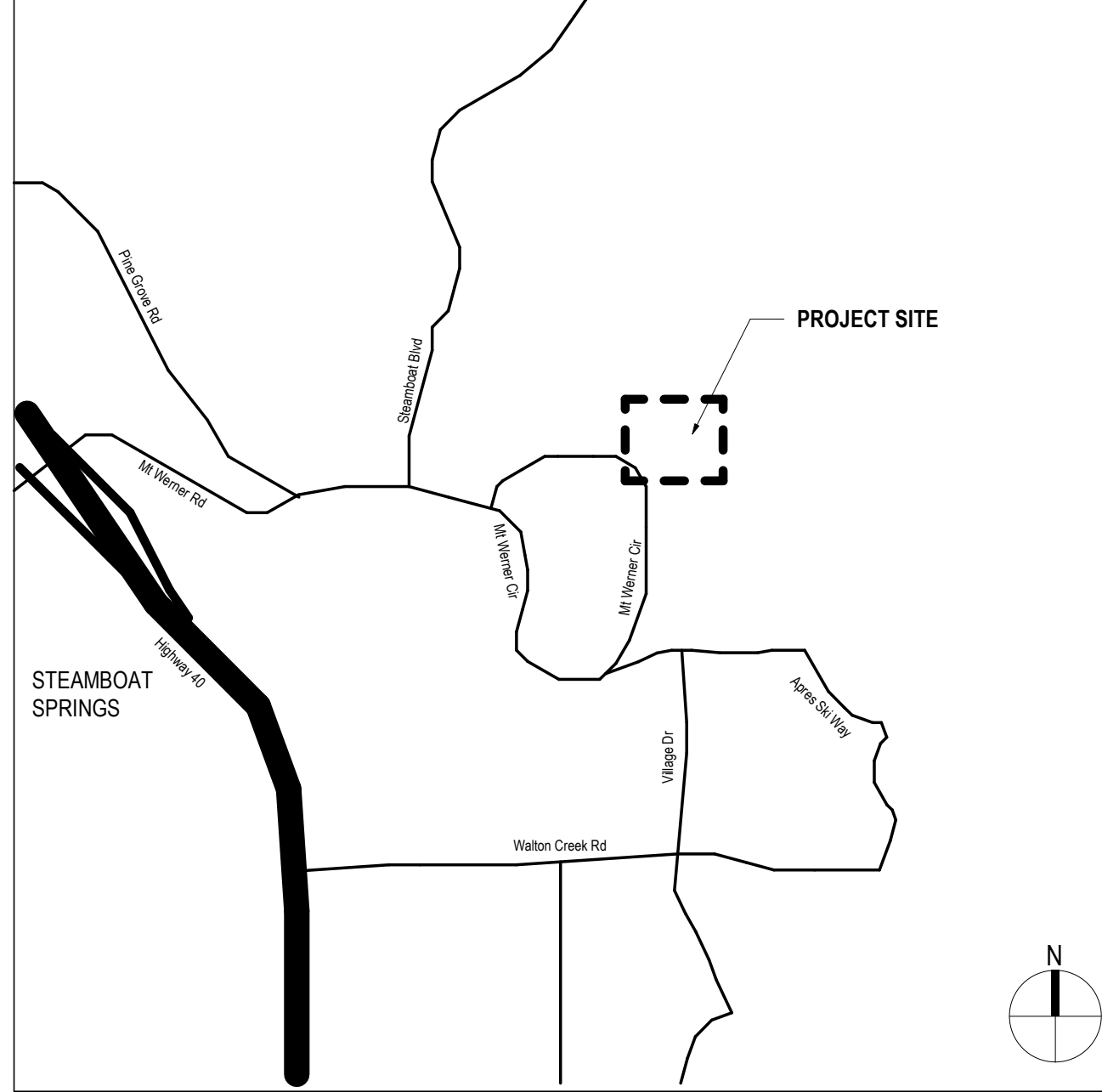
REFLECTED CEILING NOTES

1. LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS, UNLESS OTHERWISE NOTED.
2. FINISH HVAC DIFFUSERS, DRAPERS, PACKETS, SPEAKER GRILLES AND OTHER ITEMS LOCATED IN CEILING TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.
3. DIMENSIONS FOR CEILING LOCATIONS, ENLARGED PLAN TARGETS, DETAIL TARGETS, ETC. ARE NOTED ON REFLECTED CEILING PLANS, DIMENSIONS, TARGETS, ETC. THAT ARE TYPICAL FOR MANY AREAS ARE NOTED ONLY ONCE.
4. SEE ENGINEERING AND CONSULTANT(S) DRAWINGS FOR QUANTITY AND LOCATION OF ALL EXIT AND EMERGENCY LIGHTS, THERMOSTATS, SPRINKLER HEADS, LIFE SAFETY SPEAKERS, AND DIFFUSER GRILLES, TYPICAL UNLESS NOTED OTHERWISE.
5. SEE ENGINEERING AND CONSULTANT(S) DRAWINGS FOR ADDITIONAL INFORMATION, DEVICES, DETAILS, ETC., TYPICAL.
6. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING AND/OR POWER ZONES.
7. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED CONDUITS, PULL BOXES, HOME RUNS, WALL JUNCTION BOXES, PLASTER RINGS, ETC. FOR INSTALLATION, PULLING, ETC. OF ALL VOICE/DATA DEVICES, CABLES, SECURITY DEVICES, ETC., TYPICAL UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR TO COORDINATE.
8. ALL LIGHT FIXTURES, LIFE SAFETY DEVICES AND SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF A CEILING TILE IN BOTH DIRECTIONS AND SHALL ALSO ALIGN WITH ADJACENT FIXTURES, DEVICES OR HEADS IN A RUN OR ROW OF FIXTURES, DEVICES OR HEADS, TYPICAL UNLESS NOTED OTHERWISE.
9. IF LOCATION DIMENSION ARE NOT NOTED AND/OR INDICATED, FINAL POSITIONING OF ALL/ANY EXPOSED DEVICES TO BE COORDINATED WITH DESIGNER/ARCHITECT.
10. ALL EXIT LIGHTS/SIGNS TO MATCH BASE BUILDING UNLESS NOTED OTHERWISE.
11. ALL DIMENSIONS INDICATING LIGHT SWITCH AND/OR ANY OTHER DEVICE LOCATIONS ARE TO CENTER LINES OF SWITCHES AND/OR DEVICES, TYPICAL UNLESS NOTED OTHERWISE.

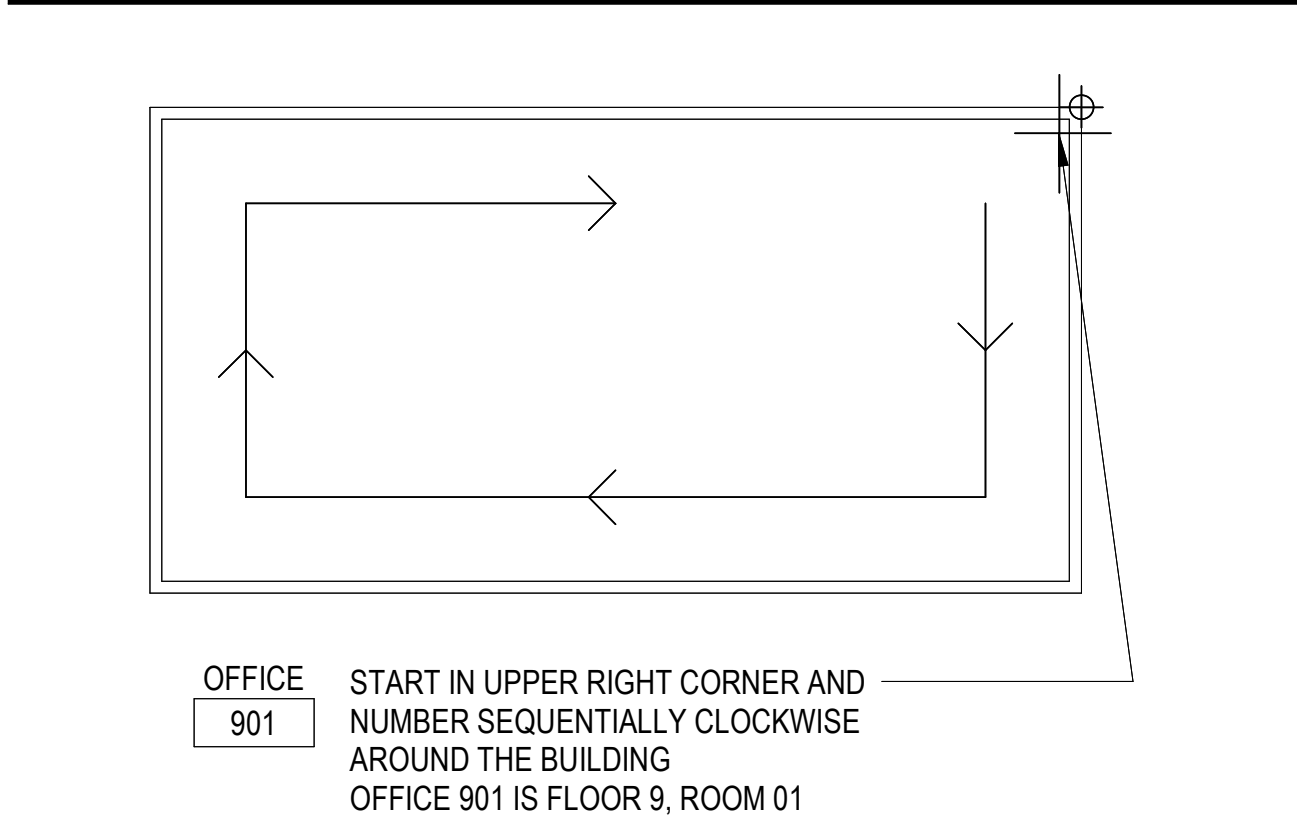
VICINITY MAP



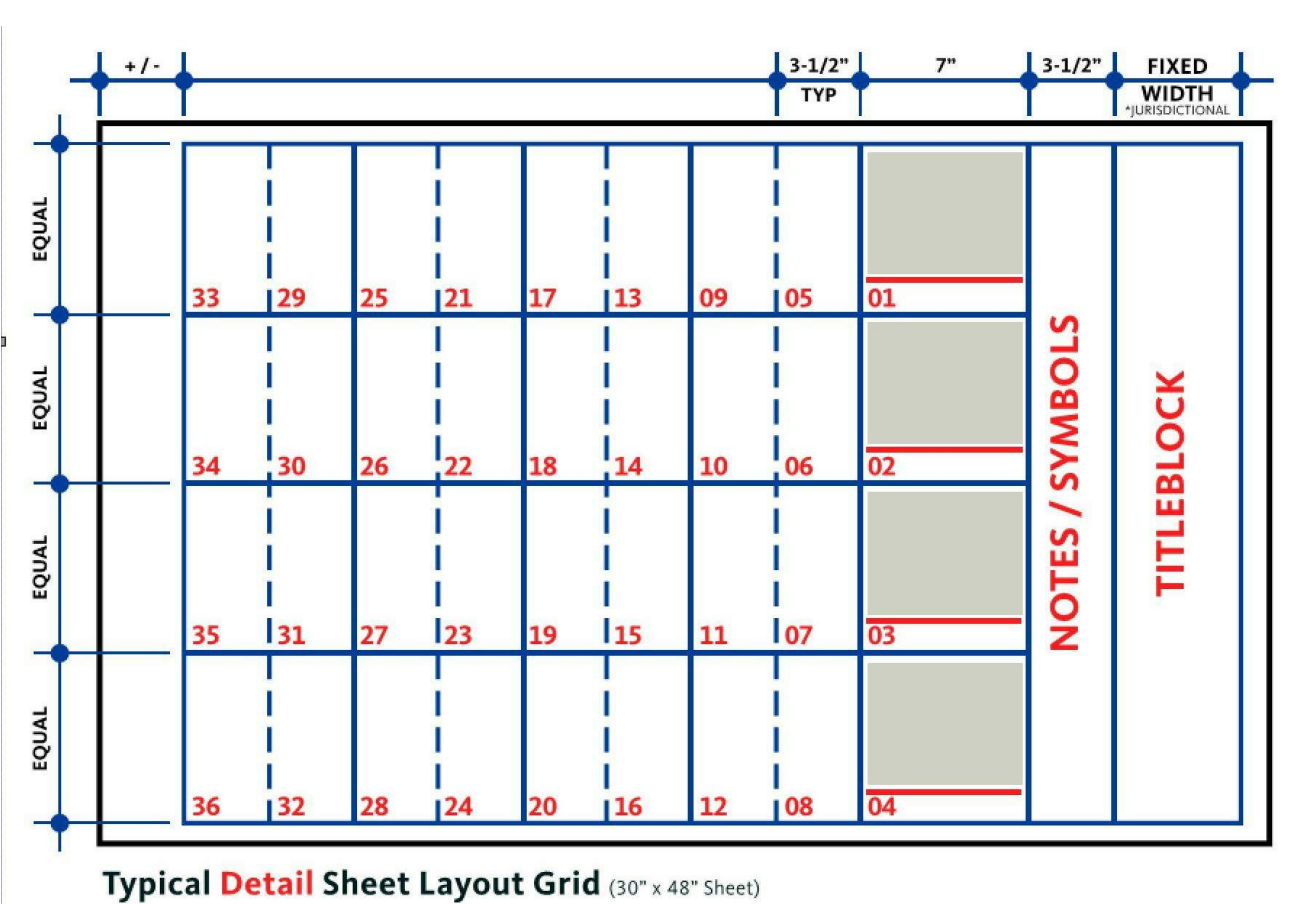
LOCATION MAP



ROOM NUMBERING SYSTEM



SHEET LAYOUT GRID SYSTEM



PROJECT INFORMATION

FOLLOWING ARE THE PLANS OUTLINING THE SCOPE OF WORK REQUIRED FOR THE NEW CONSTRUCTION AND RENOVATION OF THE STEAMBOAT BASE VILLAGE.

THE WORK OF PROJECT IS DEFINED BY THE CONTRACT DOCUMENTS AND CONSISTS OF NEW CONSTRUCTION AND RENOVATION OF THE STEAMBOAT BASE VILLAGE.

THE WORK FOR THE PROMENADE BUILDING AND PLAZA BUILDING WILL BE PERMITTED IN 3 PACKAGES. A CERTIFICATE OF OCCUPANCY IS NOT BEING REQUESTED UNTIL THE FINAL PACKAGE IS PERMITTED, CONSTRUCTED, AND ALL LIFE SAFETY SYSTEMS AND INSPECTIONS AND OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION ARE COMPLETED AND APPROVED.

PACKAGE I – PROMENADE BUILDING SHELL AND CORE. THIS INCLUDES FOUNDATIONS, SUPERSTRUCTURE, AND UNDERGROUND UTILITIES. PLAZA LANDSCAPING – HARDSCAPE AND SOFTSCAPE, ICE RINK, AND STAGE. MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND INFORMATION TECHNOLOGY SCOPES ARE WELL WITHIN THE DISTRIBUTION SYSTEMS FOR THE SHELL AND CORE BUILDING AND INCLUDING THE REFRIGERATION PLANT AND PIPING FOR THE ICE RINK. ARCHITECTURAL SCOPE INCLUDES NEW PARTITIONS, FINISHES, DOORS AND HARDWARE, WATERPROOFING, AND EXTERIOR ENCLOSURE. NO VERTICAL TRANSPORTATION – ELEVATORS AND STAIRS ARE INCLUDED.

PACKAGE II – PROMENADE BUILDING – TENANT INTERIORS. THIS WORK INCLUDES NEW PARTITIONS, FINISHES, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PROGRAMMED SPACE IN THE PREVIOUS SHELL AND CORE FUTURE SPACE.

PACKAGE III – PROMENADE PLAZA BUILDING – PERMIT AND CONSTRUCTION. THIS WORK INCLUDES THE CONSTRUCTION OF A FOOD AND BEVERAGE HALL ON THE PLAZA LEVEL. ALL ARCHITECTURAL SYSTEMS FOR COMPLETING THE PROMENADE- PLAZA BUILDING AS ONE BUILDING WILL BE PART OF THIS PACKAGE. THIS SCOPE INCLUDES EXTERIOR ENCLOSURE, INTERIOR FINISHES, EXTERIOR UPPER LEVEL PATIO, PARTITIONS, AND FOOD SERVICE EQUIPMENT. THE PLAZA BUILDING PACKAGE WILL INCLUDE VERTICAL TRANSPORTATION – ELEVATOR – CONNECTING THE PROMENADE BUILDING TO THE UPPER FLOORS OF THE PLAZA BUILDING, AND THE EGRESS STAIR FROM THE PROMENADE BUILDING TO THE PLAZA BUILDING – THUS COMPLETING THIS EGRESS PATH.

THE DRAWINGS, IN CONCERT WITH THE PROJECT MANUAL, COMPRISE THE CONTRACT DOCUMENTS OUTLINING THE DESIGN INTENT AND PROJECT SCOPE, AND MAY BE SUPPLEMENTED BY FURTHER INFORMATION ISSUED BY ARCHITECT.

THE DRAWINGS ARE ARRANGED IN GENERAL TO SPECIFIC ORDER, FOLLOWING A TOP TO BOTTOM, RIGHT TO LEFT FORMAT. CONTRACTORS ARE ADVISED TO READ AND FAMILIARIZE THEMSELVES WITH THE INFORMATION IN THE PROJECT MANUAL, AS WELL AS THE GENERAL LEGENDS CONTAINED IN THE G SERIES OF DRAWINGS, PRIOR TO REVIEW OF THE PLANS, ELEVATIONS AND DETAILS. ADVISE THE ARCHITECT WHERE INTENT IS NOT CLEARLY PERCEIVED, BEFORE TO PROCEEDING WITH WORK.

BUILDING ADDRESS:	2305 MOUNT WERNER CIRCLE STEAMBOAT SPRINGS, CO 80487
BUILDING JURISDICTION:	ROUITT COUNTY, STEAMBOAT SPRINGS, COLORADO
APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2020 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2009 ICC A117.1, ACCESSIBILITY REQUIREMENTS 2010 ADA ACCESSIBILITY GUIDELINES ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS 2013 USEABLE BUILDING & FACILITIES CODE STEAMBOAT SPRINGS AND ROUTE COUNTY CODE AMENDMENTS
OCCUPANCY TYPE:	PROMENADE BUILDING = S-2, B-BUSINESS PLAZA BUILDING= A-2, S-2
CONSTRUCTION TYPE:	PROMENADE BUILDING, PLAZA BUILDING = IIB
FIRE SUPPRESSION:	FIRE ALARM AND SMOKE DETECTION SYSTEM PER IBC 907.2 & NFPA 72
FIRE ALARM SYSTEM:	FIRE RESISTIVE, (100% SPRINKLERED PER NFPA 13 AND STANDPIPPES IN EACH STAIRWAY ENCLOSURE WITH HOSE CONNECTIONS AT INTERMEDIATE LANDINGS AND ROOF MANIFOLDS
DEFERRED SUBMITTALS:	<ul style="list-style-type: none"><li>• CPMF WALLS</li><li>• SHOP FABRICATED METAL STAIRS</li><li>• GUARDRAILS (INCLUDING CABLE RAILS IN PARKING GARAGE)</li><li>• GLASS (STOREFRONT AND CURTAINWALL)</li><li>• FIRE ALARM SYSTEM</li><li>• FIRE SPRINKLER SYSTEM</li><li>• ACCESS CONTROL HARDWARE</li><li>• ELEVATOR GUIDE RAILS AND SUPPORT</li><li>• SPRAY-APPLIED FIRE PROOFING</li></ul>
NUMBER OF STORIES IN BUILDING:	3 STORIES, BASEMENT, LEVEL 01, LEVEL 02 LEVELS 01 AND 02 WILL BE PART OF A FUTURE PACKAGE
TOTAL FLOOR AREA:	PROMENADE BUILDING 23,839 GSF
LEED CERTIFICATION:	CERTIFIED LEVEL

PROJECT TEAM

Client / Signatory	
CLIENT / OWNER:	ALTERRA MOUNTAIN COMPANY REAL ESTATE DEVELOPMENT 3501 WAZEE STREET DENVER, CO 80216 (303) 749 - 8200
CIVIL ENGINEER:	LANDMARK CONSULTANTS, INC. 141 9TH STREET, PO BOX 774943 STEAMBOAT SPRINGS, CO 80477 (970) 871-9494
LANDSCAPE ARCHITECT:	DESIGN WORKSHOP 1390 LAWRENCE STREET DENVER, CO 80204 (303) 623-5186
ARCHITECT:	GENSLER 1225 17TH STREET, SUITE 150 DENVER, CO 80202 (303) 595 - 8585
STRUCTURAL ENGINEER:	MARTIN / MARTIN ENGINEERS 12499 WEST COLFAX AVE LAKEWOOD, CO 80215 (303) 431 - 6100
MECHANICAL / ELECTRICAL / PLUMBING ENGINEER:	ME ENGINEERS 14143 DENVER WEST PKWY, SUITE 300 GOLDEN, CO 80401 (303) 421-6655



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W	WITH	RH	RIGHT HAND	MONO	MONOLITHIC	HC	HOLLOW CORE	DO	DOOR OPENING	A	AND
WO	WITHOUT	RM	ROOM	MOT	MOTOR(ZED)	HD	HEAD, HEADER, HEAVY DUTY	DPR	DAMPER	&	AND
WB	WOOD BASE	RMV	REMOVE	MOV	MOVABLE	HDCP	HANDICAPPED (BETTER CALLED "ACCESSIBLE")	DR	DOOR	ABV	ABOVE
WC	WATER CLOSET	RO	ROUGH OPENING	MP	METAL ACOUSTICAL PANEL	HDN	HARDEN	DRN	DRAIN	ACCESS	ACCESSORY
WD	WOOD	RO	ROUGH OPENING	MR	MOP RECEPTOR	HDR	HEADER	DSN	DOWNSPOUT	ACI	AMERICAN CONCRETE INSTITUTE
WDF	WINDOW	ROW	RIGHT OF WAY	MRD	METAL ROOF DECK	HDR	HEADER	DSCP	DISCONNECT	ACOUS	ACOUSTIC(AL)
WF	WIDE FLANGE (STRUCTURAL STEEL)	RPT	REPEAT (LIKE "DITTO")	MTD	MOUNTED	HOWD	HARDWOOD	DSO	DRY STANDPIPE	ADDL	ADDITIONAL
WH	WATER HEATER	RR	RAILROAD	MTL	MOUNTED	HWE	HARDWARE	DTL	DETAIL	ADJ	ADJACENT
WLD	WELD			MTR	MOTOR	HEX	HEXAGONAL	DWG	DRAWING	AFB	ABOVE FINISHED FLOOR
WM	WIRE MESH	S		MULL	MULLION	HGR	HANGER	DWGS	DRAWINGS	AHF	AUTHORITIES HAVING JURISDICTION
WP	WATERPROOFING	S4S	SURFACED 4 SIDES	MWK	MILLWORK	HGT	HEIGHT	DWR	DRAWER	AL	ALUMINUM
WPT	WORKING POINT	SALV	SALVAGE			HID	HIGH INTENSITY DISCHARGE			ALT	ALTERNATE
WR	WATER RESISTANT OR WATER REPELLANT	SAN	SANITARY	N	NATURAL	HM	HOLLOW METAL	E	EACH	ALUM	ALUMINUM
		SC	SOLID CORE	NAT	NATURAL	HORIZ	HORIZONTAL	EA	EACH	AMT	AMOUNT
WRSTP	WEATHERSTRIPPING	SCHED	SCHEDULE	NEUT	NEUTRAL	HP	HIGH POINT	ECC	ECCENTRIC	ANCH	ANCHOR, ANCHORAGE
WT	WEIGHT	SCOR	SCORE	NIC	NOT IN CONTACT	HR	HOUR	ED	EMERGENCY DRAIN	ANNUNC	ANNUNCIATOR
WTRPRF	WATERPROOFING	SCRN	SCREEN	NMT	NON-METALLIC	HS	HEAT STRENGTHENED	EJ	EXPANSION JOINT	ANOD	ANODIZED
WWF	WELDED WIRE FABRIC	SCUP	SCUPPER	NO	NUMBER	HSS	HOLLOW STAINLESS STEEL	EJECT	EJECTOR	ANT	ANTENNA
		SCWD	SOLID CORE WOOD DOOR	NO	NOMINAL	HT	HEIGHT	EL	ELEVATION OR ELEVATOR	AR	ARCHITECT OF RECORD
X		SE	STRUCTURAL ENGINEER	NR	NOISE REDUCTION	HTG	HEATING	ELAST	ELASTOMERIC	APPL	APPLIANCE
X HVY	EXTRA HEAVY	SECT	SECTION	NRC	NOISE REDUCTION COEFFICIENT	HTR	HEATER	ELEC	ELECTRICAL	APPROX	APPROXIMATE
X STR	EXTRA STRONG	SECUR	SECURITY	NS	NEAR SIDE	HTW	HIGH TEMPERATURE WATER	ELEV	ELEVATOR OR ELEVATION	APRVD	APPROVED
XH	EXTRA HEAVY	SECY	SECRETARY	NTS	NOT TO SCALE	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	ELP	EMERGENCY LIGHTING PANEL	ARCH	ARCHITECT(URAL)
		SED	SEWAGE EJECTOR DISCHARGE			HVY	HEAVY	EMBED	EMBEDDED(ING)	ASPH	ASPHALT
Y		SEL	SELECT	O	OUT	HW	HOT WATER OR HEAVY WALL	EMER	EMERGENCY	ASSOC	ASSOCIATION, ASSOCIATE
YD	YARD	SERV	SERVICE	O, O TO	OUT TO OUT	HWC	HOT WATER CIRCULATING OR HEAVY WALL CONDUIT	ENAM	ENAMEL	ASSY	ASSEMBLY
YR	YEAR	SEV	SEWAGE EJECTOR VENT	O, O'	OVER	HWD	HARDWOOD	ENCL	ENCLOSURE	AUTH	AUTHORIZED
		SF	SQUARE FEET	OA	OVERALL	HWH	HOT WATER HEATER	ENG	ENGINEER	AUTO	AUTOMATIC
		SF	SQUARE FOOT	OC	ON CENTER	HWR	HOT WATER RECIRCULATING RETURN	ENGR	ENGINEER(ED)	AVG	AVERAGE
		SFGL	SAFETY GLASS	OD	OUTSIDE DIAMETER			ENT	ENTRANCE		
		SG	SINGLE	OF	OUTSIDE FACE			ENTR	ENTRANCE	B	TO B
		SGG	STRUCTURAL GLAZING GASKET	OFF	OFFICE	HWS	HOT WATER SUPPLY	EOR	ENGINEER OF RECORD	B TO B	BACK TO BACK
		SGL	SINGLE	OH	OVERHEAD	HWY	HIGHWAY	EOS	EDGE OF SLAB	BTM	BOTTOM (OF)
		SGS	SILICONE GLAZING SEALANT	OH	OVERHEAD DOOR	HYD	HYDRAULIC	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	BD	BOARD (OF BUILDING DEPARTMENT)
		SHORG	SHORING	OPNG	OPENING(S)	HYDRO	HYDROSTATIC	EQ	EQUAL	BETW	BETWEEN
		SHT	SHEET	OPP	OPPOSITE			EQ	EQUAL	BEV	BEVEL
		SHTG	SHEATHING	OPP H	OPPOSITE HAND			EQUIP	EQUIPMENT	BLDG	BUILDING
		SHWR	SHOWER	OPR	OPERABLE	ID	INSIDE DIAMETER	ESC	ESCALATOR	BLK	BLOCK
		SIM	SIMILAR	ORD	OVER/LOW ROOF DRAIN	IN	INCH	EST	ESTIMATE	BLKG	BLOCKING
		SK	SINK	ORN	ORNAMENTAL	INCAND	INCANDESCENT	EVAP	EVAPORATOR	BLW	BELOW
		SLOT	SLOTTED	ORNA	ORNAMENTAL	INCR	INCREASE	EWI	ELECTRIC WATER HEATER	BM	BEAM (OR BENCHMARK)
		SLV	SLEEVE	OSD	OPEN SIGHT DRAIN	INFIL	INFILTRATION	EX	EXISTING	BOL	BOLLARD
		SMT	SEALANT	OUT	OUTLET	INFILTR	INFILTRATION	EXCAV	EXCAVATE	BOLL	BOLLARD
		SP	SOIL PIPE	OVFL	OVERFLOW	INFORM	INFORMATION	EXEC	EXECUTIVE	BOT	BOTTOM
		SPEC	SPECIFICATION	OVHD	OVERHEAD	INSP	INSPECT	EXG	EXISTING	BRDG	BRIDGE, BRIDGING
		SPECS	SPECIFICATIONS	OZ	OUNCE	INSTRUM	INSTRUMENT(ATION)	EXH	EXHAUST	BRDLM	BROADLOOM
		SPK	SPEAKER			INSUL	INSULATION	EXH AIR	EXHAUST AIR	BRG	BEARING
		SPL	SPECIAL	P	PIPE SLEEVE	INT	INTERIOR OR INTERNAL	EXIST	EXISTING	BRKT	BRACKET
		SPLR	SPECIAL SPRINKLER	P, SL	PIPE SLEEVE	INTERM	INTERMEDIATE	EXP	EXPANSION OR EXPOSED	BRZ	BRONZE
		SO	SQUARE	PA	PUBLIC ADDRESS	INTLK	INTERLOCK(ING)	EXP JT	EXPANSION JOINT	BU	BUILT UP
		SSD	SOIL-DRAIN	PB	PULL BOX	IW	INDIRECT WASTE	EXPN	EXPANSION	BUR	BUILT UP ROOF
		SSGS	SILICONE STRUCTURAL GLAZING SEALANT	PBD	PARTICLE BOARD			EXPS	EXPOSED(D)	BW	BOTH WAYS
				PCF	POUNDS PER CUBIC FOOT	J	JUNCTION	EXT	EXTERIOR		
		SST	STAINLESS STEEL	PCPL	PORTLAND CEMENT PLASTER	J-BOX	JUNCTION BOX	EXTR	EXTRUDE	C	CENTER TO CENTER
		STC	SOUND TRANSMISSION CLASS	PD	PLAZA DRAIN	JAN	JANITOR			C/C	CENTER TO CENTER
		STD	STANDARD	PED	PEDESTAL OR PEDESTRIAN	JC	JANITOR'S CLOSET	F	DEGREES FAHRENHEIT	CAB	CABINET
		STG	SEATING	PEDR	PEDESTRIAN	JCT	JUNCTION	FA	FIRE ALARM OR FRESH AIR	CAP	CAPACITY
		STGG	STRUCTURAL GLAZING GASKET	PERF	PERFORATE	JST	JOIST	FAB	FABRICATION	CEM	CEMENT(ITU)OUS
		STGR	STAGGER	PERIM	PERIMETER	JT	JOINT	FAR	FLOOR AREA RATIO	CER	CERAMIC
		STIFF	STIFFENER	PERP	PERPENDICULAR			FAS	FLOOR AREA RATIO	CF	CUBIC FEET
		STL	STEEL	PKG	PARKING	K	KILO	FAST	FASTER OR FASTEN	CFL	COUNTERFLASHING
		STM	STEAM	PKWY	PARKWAY	KG	KILOGRAM	FC	FOOT CANDLE	CFT	CUBIC FOOT
		STOR	STORAGE	PL	PLATE	KIP	KILOPOUND (1000 POUNDS)	FD	FLOOR DRAIN, OR FIRE DEPARTMENT	CHAM	CHAMFER
		STR	STRAIGHT (RE-BARS)	PLAM	PLASTIC LAMINATE	KIT	KITCHEN	FDC	FIRE DEPARTMENT CONNECTION	CHR	CHILLED WATER RETURN
		STRFR	STOREFRONT	PLAS	PLASTER	KM	KILOMETER	FDTN	FOUNDATION	CHS	CHILLED WATER SUPPLY
		STRUC	STRUCTURAL	PLBG	PLUMBING	KO	KNOCKOUT	FE	FIRE EXTINGUISHER	CP	CASE-IN-PLACE
		STRUCT	STRUCTURAL	PLSTC	PLASTIC	KPL	KICKPLATE	FE	FIRE EXTINGUISHER	CR	CIRCLE
		STW	STORM WATER	PLTF	PLATFORM	KVA	KILOVOLT-AMPERE	FEC	FIRE EXTINGUISHER AND CABINET	CJ	CONTROL JOINT
		SUPP	SUPPLEMENTARY, SUPPLEMENT	PLYWD	PLYWOOD	KW	KILOWATT	FEC	FIRE EXTINGUISHER CABINET	CL	CENTERLINE
		SUR	SURFACE	PNEU	PNEUMATIC	KWH	KILOWATT HOUR	FFBE	FIXTURES, FURNISHINGS & EQUIPMENT	CLG	CEILING
		SURF	SURFACE	PNL	PANEL			FGR	FIBERGLASS REINFORCED	CLKG	CAULKING
		SUSP	SUSPENDED	PNT	PAINT	L	LANDSCAPE ARCHITECT	FH	FIRE HYDRANT	CLR	CLEAR
		SW	SWITCH	POL	POLISHED	LA	LANDSCAPE ARCHITECT	FHC	FIRE HOSE AND CABINET	CLR OPG	CLEAR OPENING
		SY	SQUARE YARD	POLYST	POLYSTYRENE	LAB	LABORATORY, LABOR	FIN	FINISH, FINISHED	CONC	CONCRETE MASONRY UNIT
		SYM	SYMMETRICAL	PORT	PORTABLE	LAD	LADDER	FIN	FINISH, FINISHED	CND	CONDITION
		SYN	SYNTHETIC	POT W	POTABLE WATER	LAM	LAMINATE, LAMINATED	FIXT	FIXTURE	CNTR	CENTER, (OR COUNTER)
		SYS	SYSTEM(S)	PAIR	PAIR	LAT	LATERAL	FL	FLOOR OR FIRE LINE	COATG	COATING
				PRCST	PRECAST	LAV	LAVATORY	FLASH	FLASHING	COEF	COEFFICIENT
		T		PRE	PREFINISHED	LB	POUND	FLD	FOLDING	COILG	COILING
		T&G	TONGUE AND GROOVE	PREFAB	PREFABRICATED	LBL	LABEL	FLG	FLOORING	COL	COLUMN
		T		PREFIN	PREFINISHED	LBR	LUMBER	FLR	FLOOR(ING)	COM	COMMON
		TAN	TANGENT	PRESS	POLYSTYRENE	LCD	LIQUID CRYSTAL DIODE	FLUOR	FLUORESCENT	COMB	COMBINATION
		TC	TOP OF CURB	PR	PRIMARY	LD	LEADER DRAIN	FO	FACTORY MUTUAL COMPANY	COMP	COMPRESSED
		TEL	TRENCH DRAIN	PRTECN	PROTECTION	LH	LEFT HAND	FM	FINISHED OPENING	COMP	COMPARTMENT
		TE	TELEPHONE	PRTN	PARTITION	LIB	LIBRARY	FO	FINISHED OPENING	CON	CONSTRUCTION
		TEMP	TEMPORARY	PSF	POUNDS PER SQUARE FOOT	LIN	LINEAR	FOC	FACE OF CONCRETE	CONC	CONCRETE
		TERR	TERRAZZO	PSI	POUNDS PER SQUARE INCH	LINO	LINOLEUM	FOS	FACE OF FINISH	COND	CONDENSER, CONDUIT
		THK	THICK	PT	PAINT	LIQ	LIQUID	FP	FIREPROOF	CONN	CONNECTION
		THRESH	THRESHOLD	PTC	POST-TENSIONED CONCRETE	LL	LIVE LOAD	FLC	FIREPLACE	CONSTR	CONSTRUCTION
		THRU	THROUGH	PTD	PAINTED	LN	LENGTH	FFM	FEET PER MINUTE	CONT	CONTINUOUS(ATION)
		TKBD	TAKBOARD	PTN	PARTITION	LDNG	LANDING	FFRF	FIREPROOF	CONTR	CONTROL, CONTRACT(OR)
		TLT	TOILET	PVC	POLYVINYL CHLORIDE	UNTL	UNTEL	FR	FIRE RAT(ING)ED	CONV	CONVECTOR
		TOC	TOP OF CONCRETE	PVF	POLYVINYLIDENE FINISH	LOC	LOCATIONS	FR	FRAMING	COR	CORNER, CORRIDOR
		TOL	TOLERANCE	PVG	PAVING	LOCS	LOCATIONS	FRM	FRAMING	CORR	CORRIDOR, CORRUGATE
		TOS	TOP OF STEEL	PVMT	PAVEMENT	LP	LOW POINT	FSOW	FLOOR SINK	COV	COVER
		TOW	TOP OF WALL	PVT	PRIVATE	LT	LIGHT	FT	FLUSH SOLID CORE DOOR	CPR	COPPER
		TP	TOP OF PAVEMENT	PWR	POWER	LTG	LIGHTING	FT	FOOT	CPT	CARPET
		TPTN	TOILET PARTITION			LTWT	LIGHTWEIGHT	FTG	FITTING	CRD	CARD READER
		TRAF	TRAFFIC	Q	QUARRY TILE	LV	LOW VOLTAGE	FURN	FURNITURE	CRS	COURSE OR COLD ROLLED STEEL
		TRANS	TRANSPARENT	QT	QUARTER	LVG	LEVELING	FURN	FURNITURE	CSG	CASING
		TRAV	TRAVERTINE	QTR	QUARTER	LVR	LOUVER	FUT	FUTURE	CSG	CASING
		TRD	TREAD	QTY	QUANTITY	LVT	LOUVER	FVC	FIRE VALVE CABINET	CT	CERAMIC TILE, CORK TILE
		TRTD	TREATED	QUAL	QUALITY	LWC	LIGHT-WEIGHT CONCRETE	FWC	FABRIC WALL COVERING	CTD	COATED
		TS	TOP OF SLAB			FXD	BRITISH POUND (CURRENCY)	FXR	FIXTURE	CTR	CENTER OR COUNTER
		TSL	TOP OF STEEL			£				CTSK	COUNTERSUNK
		TSTAT	THERMOSTAT	RA	RETURN AIR					CTV	CLOSED CIRCUIT TV
		TV	TELEVISION	RAD	RADIUS	M	METER	G	GAUGE	CU.FT.	CUBIC FEET
		Typ	TYPICAL	RADN	RADIAN	M	METER	GAL	GALLON	CU.YD	CUBIC YARD
				RB	RUBBER BASE	MACH	MACHINE	GALV	GALVANIZED	CUR	CURRENT
		U		RBT	RABBIT	MAINT	MAINTENANCE	GALV	GALVANIZED	CV	CHECK VALVE
		UL	UNDERWRITERS' LABORATORIES	ROP	REFLECTED CEILING PLAN	MAN	MANUAL	GC	GENERAL CONTRACTOR	CW	COLD WATER
		UNDRLAY	UNDERLAYMENT	RO	ROOF DRAIN	MAR	MARBLE	GO	GUTTER DRAIN	CWP	CIRCULATING WATER PUMP
		UNO	UNLESS NOTED OTHERWISE	ROF	ROOF DRAIN LEADER	MARB	MARBLE	GEN	GENERATOR OR GENERAL	CWS	CONDENSATE WATER PUMP
		USS	UNITED STATES STANDARD	RDL	READER	MAS	MASONRY	GENL	GENERAL	CWR	CONDENSATE WASTE SUPPLY
		UTL, UTIL	UTILITY	RDR	REINFORCING BAR	MATL	MATERIAL	GFRG	GLASS FIBER REINFORCED CONCRETE	CY	CUBIC YARD OR CYCLE
				REC	RECEIVER	MAX	MAXIMUM			CYL	CYLINDER
		V		MD	MEDIUM			GFRG	GLASS FIBER REINFORCED GYPSUM		
		VAC	VACUUM	RECES	RECESSED	ME	MECHANICAL ENGINEER	GFRP	GLAS FIBER REINFORCED PLASTER	D	DOLLAR (US CURRENCY)
		VAR	VARIES	RECPT	RECEPTACLE	MECH	MECHANICAL	GASKET	GASKET	\$	DOLLAR (US CURRENCY)
		VB	VAPOR BARRIER	RED	REDUCER	MED	MEDIUM	GL	GLASS	DB	DECIBEL
		VBC	VINYL BASE (COVERED)	REF	REFERENCE	MEMB	MEMBRANE	GL BLK	GLASS BLOCK	DBL	DOUBLE
		VBS	VINYL BASE (STRAIGHT)	REF	REFERENCE	MET	METAL	GLZ	GLAZE	DC	DIRECT CURRENT
		VCT	VINYL COMPOSITION TILE	REFL	REFLECTED	MEZZ	MEZZANINE	GND	GROUND	DD	DECK DRAIN
		VEH	VEHICLE	REFR	REFRIGERATOR	MFD	MANUFACTURED	GOVT	GOVERNMENT	DEG	DEGREE
		VENT	VENTILATE	REG	REGULAR	MFR	MANUFACTURER	GPH	GALLONS PER HOUR	DEMO	DEMOLITION
		VERT	VERTICAL	REINF	REINFORCED(DY)NG(MENT)	MH	MANHOLE	GP	GALLONS PER MINUTE	DEPT	DEPARTMENT
		VEST	VESTIBULE	REM	REMOVE	MHO	MAGNETIC HOLD OPEN	GPM	GALLONS PER MINUTE	DES	DESIGNED
		VIF	VERIFY IN FIELD	REQ	REQUIRED	MN	MINIMUM	GR	GRADE(ING)	DET	DETAIL
		VIT	VITREOUS	REQD	REQUIRED	MIR	MIRROR	GRAN	GRANITE	DIA	DIAMETER
		VLT	VULT	RESIL	RESILIENT	MISC	MISCELLANEOUS	GRND	GRINDING	DIF	DIFFUSION
		VOL	VOLUME	RESIS	RESIST(ANT)(IVE)	MK	MARK	GRTG	GRATING	DIM	DIMENSION
		VP	VENT PIPE	RET	RETURN OR RETAINING	MLDG	MOLDING	GT	GROUT	DISP	DISPENSER
		VR	VAPOR RETARDER	REV	REVERSE OR REVISE OR REVISION	MLWK	MILLWORK	GYP	GALVANIZED	DIV	DIVISION
		VS	VENT STACK	REV DR	REVOLVING DOOR	MM	MILLIMETER	GYP-BD	GYPSUM BOARD	DMT	DEMOUNTABLE
		VWC	VINYL WALL COVERING	RF	ROOF	MMB	MEMBRANE	H	HOLDING	DN	DOWN
				RFG	ROOFING	MO	MASONRY OPENING				
				RGH	ROUGH	MOD	MODULE				
				RGTR	REGISTER	MOIST	MOISTURE				
	</										

## SECTION INDICATIONS

	ACOUSTICAL CEILING TILE
	ALUMINUM
	BRICK
	CARPET
	CONCRETE
	CONCRETE MASONRY UNIT
	CUT STONE
	EARTH
	FABRIC WRAPPED PANEL
	GLASS
	GRAVEL
	GYPSUM PLASTER
	INSULATION (LOOSE OR BATT)
	INSULATION (RIGID)
	METAL
	PLASTIC
	PLYWOOD
	PRE-CAST PANELS
	SAND OR GROUT
	STONE
	WOOD (FINISHED )
	WOOD (CONTINUOUS MEMBER)
	WOOD (INTERRUPTED MEMBER)

## REFLECTED CEILING

	ACOUSTICAL CEILING AND GRID
	CEILING HEIGHT CHANGE SYMBOL
	FINISH CEILING HEIGHT SYMBOL
	GRID STARTPOINT SYMBOL
	CEILING FINISH TAG
	MOTION SENSOR
	CEILING MOUNTED SPEAKER
	CEILING MOUNTED CAMERA
	CEILING MOUNTED SPRINKLER HEAD
	CEILING MOUNTED SMOKE DETECTOR
	CEILING MOUNTED STROBE LIGHT
	CEILING MOUNTED EXIT SIGNS
	WALL MOUNTED EXIT SIGNS - PARALLEL
	WALL MOUNTED EXIT SIGNS - PERPENDICULAR
	DENOTES EXISTING TO REMAIN
	DENOTES EXISTING TO BE RELOCATED
	ACCESS DOOR

## LIGHT FIXTURES

	FLORESCENT LIGHT FIXTURE
	FLORESCENT LIGHT FIXTURE / EMERGENCY CIRCUIT
	EXISTING LIGHT FIXTURE TO BE REMOVED
	UNDER CABINET FLORESCENT FIXTURE
	FLORESCENT STRIP FIXTURE
	FLORESCENT PENDANT FIXTURE
	RECESSED DOWNLIGHT
	RECESSED ADJUSTABLE DOWNLIGHT
	RECESSED WALL WASHER
	TRACK LIGHTING
	SURFACE MOUNTED LIGHT FIXTURE
	WALL SCONCE
	LIGHT SWITCH
	DIMMER SWITCH

## MECHANICAL FIXTURES

	RETURN AIR
	SUPPLY AIR
	CIRCULAR DIFFUSER
	LINEAR DIFFUSER
	EXHAUST FAN

# CONSTRUCTION

COLUMN GRID REFERENCE NUMBER  
COLUMN GRID LINES AND REFERENCE NUMBER

EXISTING CONSTRUCTION TO REMAIN  
EXISTING CONSTRUCTION TO BE DEMOLISHED

NEW PARTITION  
1 HR. RATED PARTITION

2 HR. RATED PARTITION  
3 HR. RATED PARTITION

4 HR. RATED PARTITION  
MILLWORK

MILLWORK ABOVE

DETAIL NUMBER  
SHEET NUMBER

DESCRIPTION OF SIMILAR OR OPPOSITE

AREA TO BE DETAILED

LOCATION ON SHEET WHERE ELEVATION IS SHOWN  
DIRECTION OF ELEVATION

SHEET NUMBER WHERE ELEVATION IS SHOWN  
INTERIOR AND EXTERIOR ELEVATION MARKER

REVISION REFERENCE NUMBER  
REVISION CLOUD DEPICTING AREA REVISED

NAME  
ROOM NAME  
ROOM NUMBER

SHEETNOTE REFERENCE

WALL TYPE REFERENCE  
FIRE RATING

DOOR REFERENCE NUMBER (REFER TO DOOR SCHEDULE)

DOOR NUMBER  
DOOR TYPE

DOOR NUMBER  
DOOR TYPE | HARDWARE TYPE

WINDOW REFERENCE NUMBER (REFER TO WINDOW SCHEDULE)

MILLWORK REFERENCE NUMBER (REFER TO MILLWORK SCHEDULE)

ELEVATION DATUM REFERENCE

FLOOR ELEVATION TRANSITION

MATCH LINE SEE XXXX

MATCH LINE SYMBOL

ALIGN WITH ESTABLISHED / ADJACENT SURFACES

## WALL MOUNTED LIFE SAFETY EQUIPMENT AND DEVICES

FIRE WARDEN STATION SYMBOL

WALL MOUNTED FIRE ALARM STROBE SYMBOL

FIRE ALARM PULL SYMBOL

WALL MOUNTED, FIRE EXTINGUISHER CABINET

WALL MOUNTED FIRE EXTINGUISHER

WALL MOUNTED FIRE HOSE CABINET

WALL MOUNTED FIRE VALVE

WALL MOUNTED FIRE VALVE CABINET

# FINISH

WALL FINISH TAG  
BASE FINISH TAG

EXTENT OF FINISH TYP.

WALL FINISH TAG

SPECIAL FINISH TAG

FLOOR FINISH TAG

CEILING FINISH TAG

CHANGE IN FLOOR FINISH

## ELEVATION INDICATION

GLASS SYMBOL

MASONRY COURSING

WOOD VENEER

STONE



**LANDMARK**  
CONSULTANTS, INC.

141 9th Street  
PO Box 77143  
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**MARTIN/MARTIN**  
CONSULTING ENGINEERS









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Lakewood, CO 80215  
United States  
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









**me**  
engineers

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Golden, CO  
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△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

	FIRE WARDEN STATION SYMBOL
	WALL MOUNTED FIRE ALARM STROBE SYMBOL
	FIRE ALARM PULL SYMBOL
	WALL MOUNTED, FIRE EXTINGUISHER CABINET
	WALL MOUNTED FIRE EXTINGUISHER
	WALL MOUNTED FIRE HOSE CABINET
	WALL MOUNTED FIRE VALVE
	WALL MOUNTED FIRE VALVE CABINET

	WALL FINISH TAG BASE FINISH TAG
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	CHANGE IN FLOOR FINISH

	GLASS SYMBOL
	MASONRY COURSING
	WOOD VENEER
	STONE

Seal / Signature

Project Name

Project Number003 7835 000

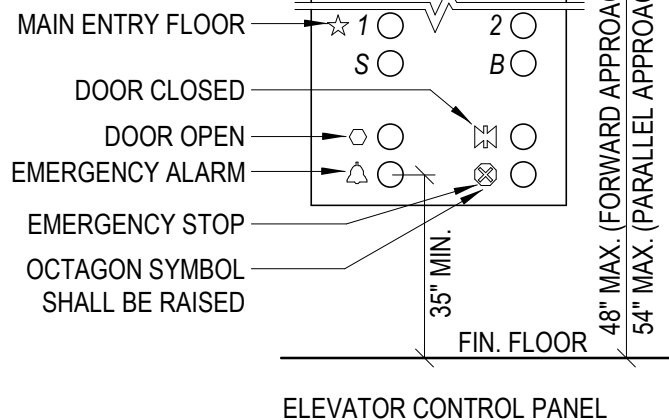
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1	Task 1 Description	In Progress	High	John Doe	2023-10-25	2023-10-20 10:30	2023-10-24 15:45
2	Task 2 Description	Not Started	Medium	Jane Smith	2023-10-26	2023-10-21 09:15	2023-10-21 09:15
3	Task 3 Description	Completed	Low	John Doe	2023-10-15	2023-10-10 14:20	2023-10-15 11:00
4	Task 4 Description	On Hold	Medium	Jane Smith	2023-10-27	2023-10-22 16:30	2023-10-22 16:30
5	Task 5 Description	In Progress	High	John Doe	2023-10-28	2023-10-23 12:45	2023-10-27 18:00

## SYMBOLS &amp; ABBREVIATIONS

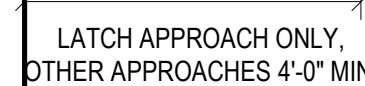
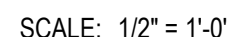
**1A-G1.002**



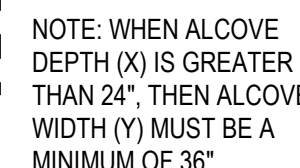
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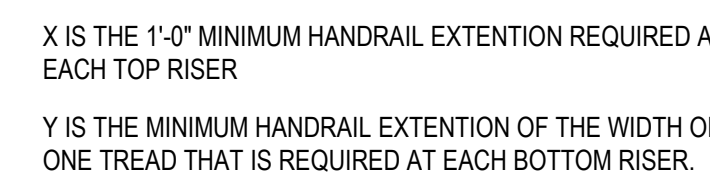
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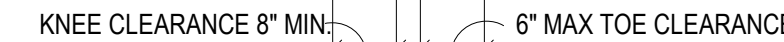
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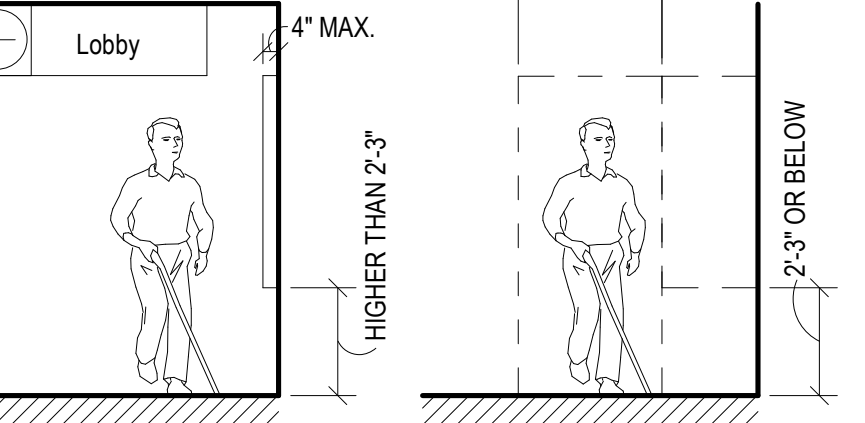
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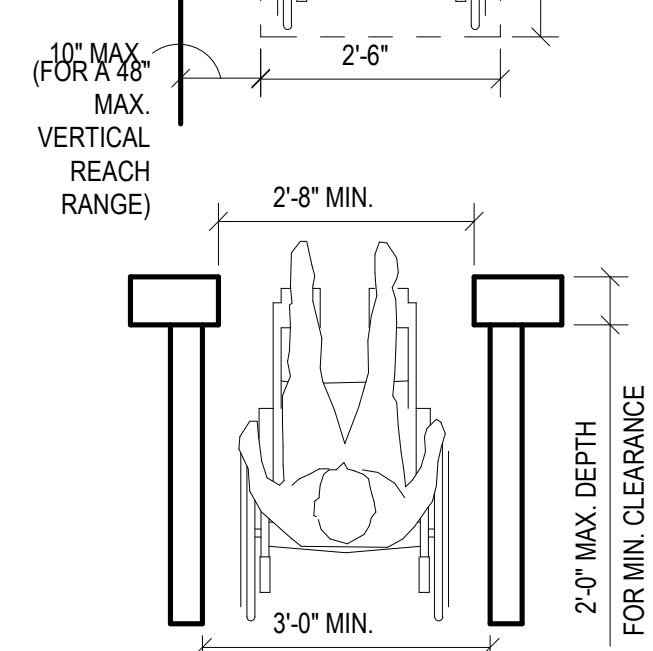
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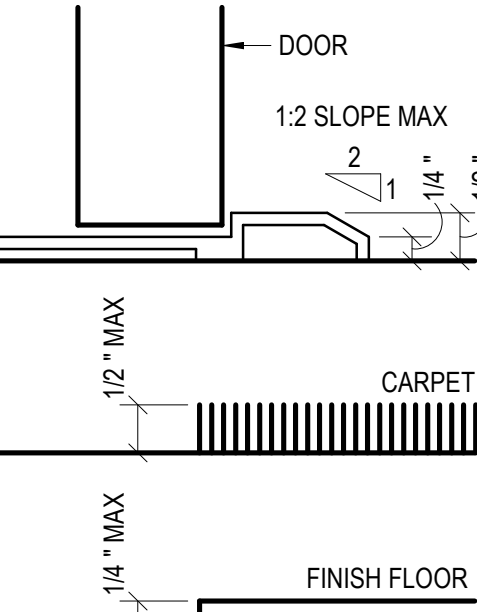
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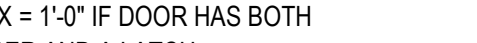
SCALE: 1/4" = 1'-0"



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



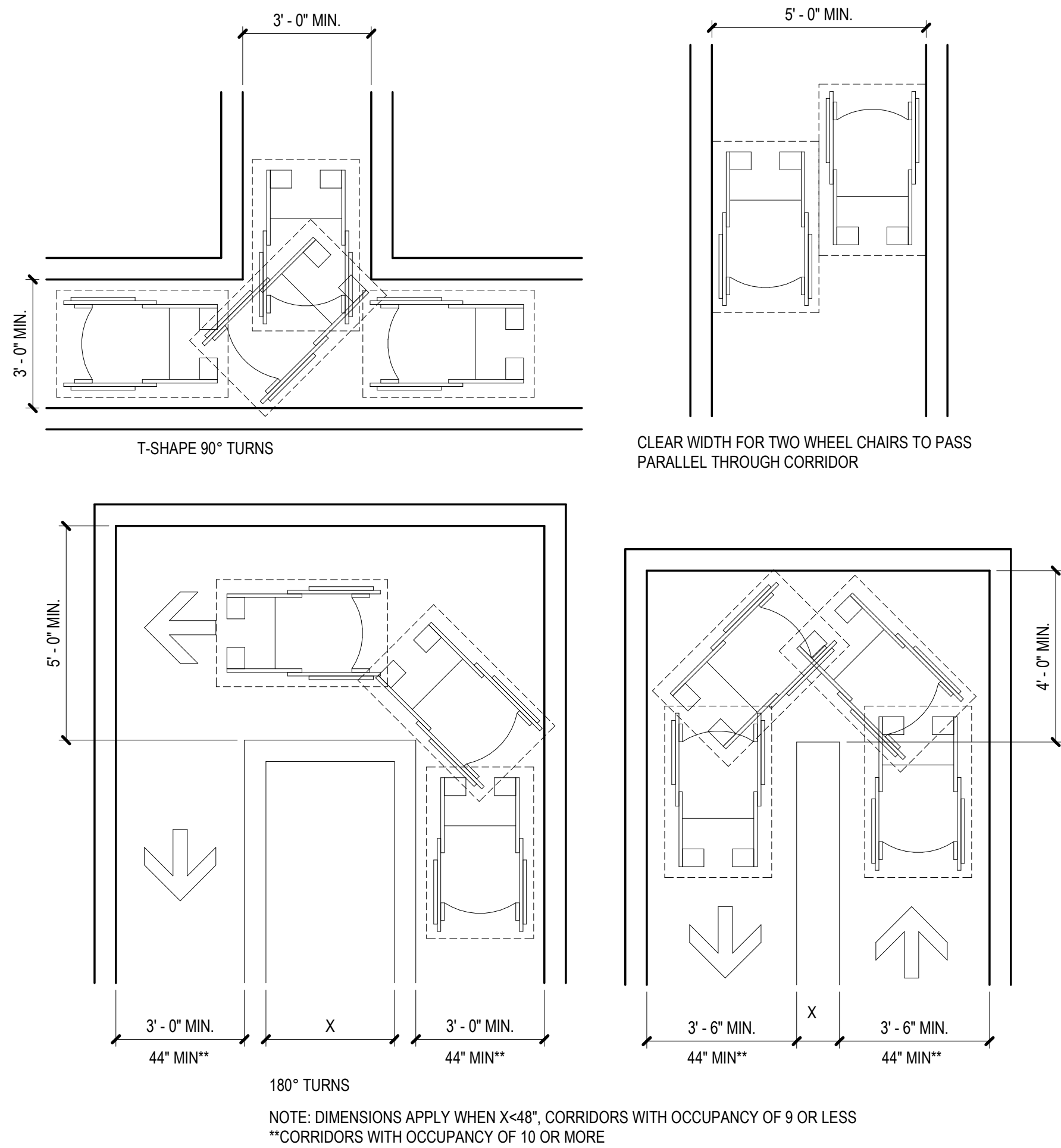
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△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

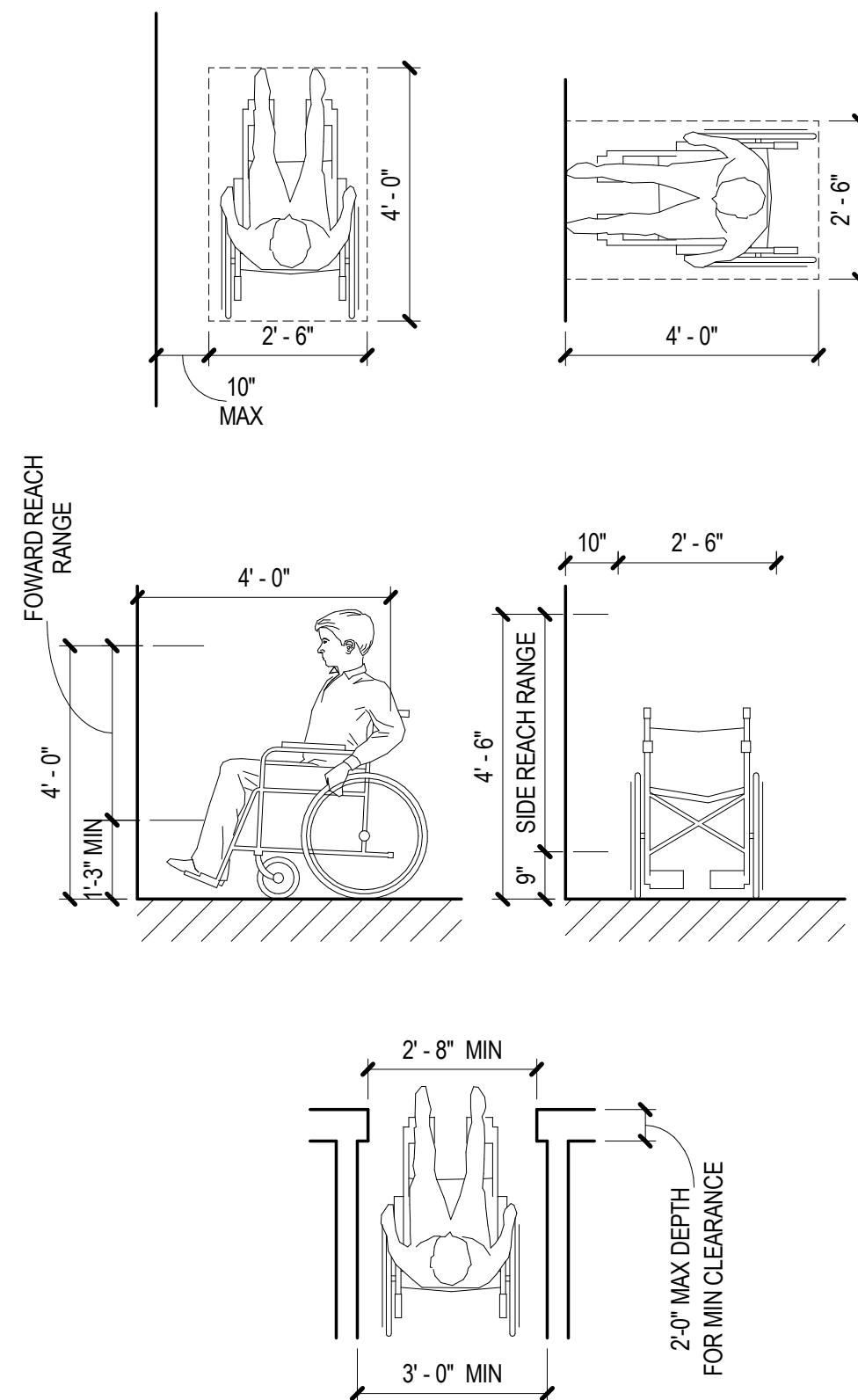
Seal / Signature	
 	
Project Name	05.19.2021
SSRC   BASE AREA IMPROVEMENTS	
Project Number	003.7835.000
Description	ADA REQUIREMENTS & DETAILS
Scale	





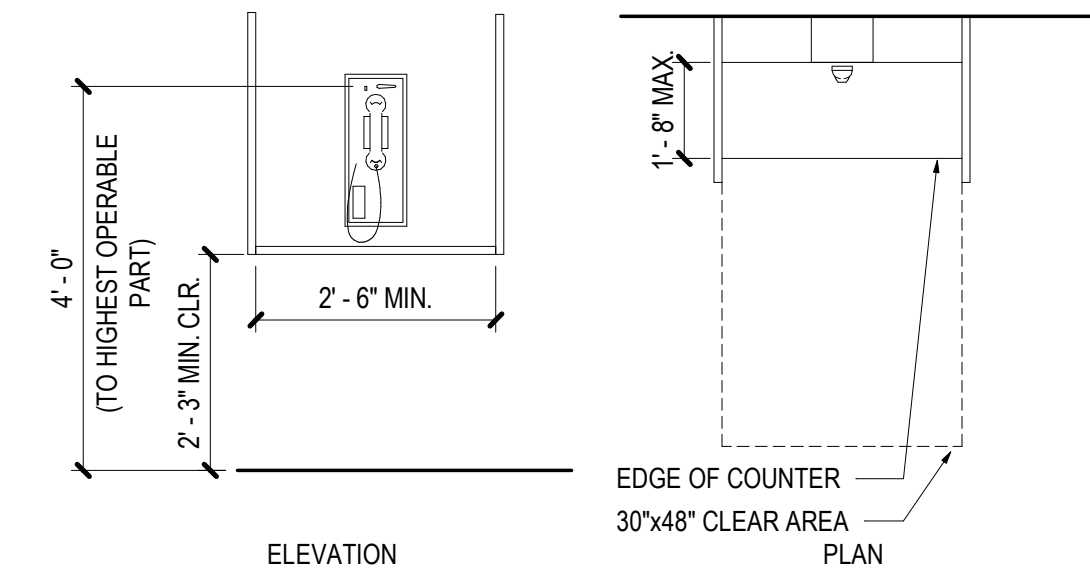
## 6 MANEUVERING REQUIREMENTS

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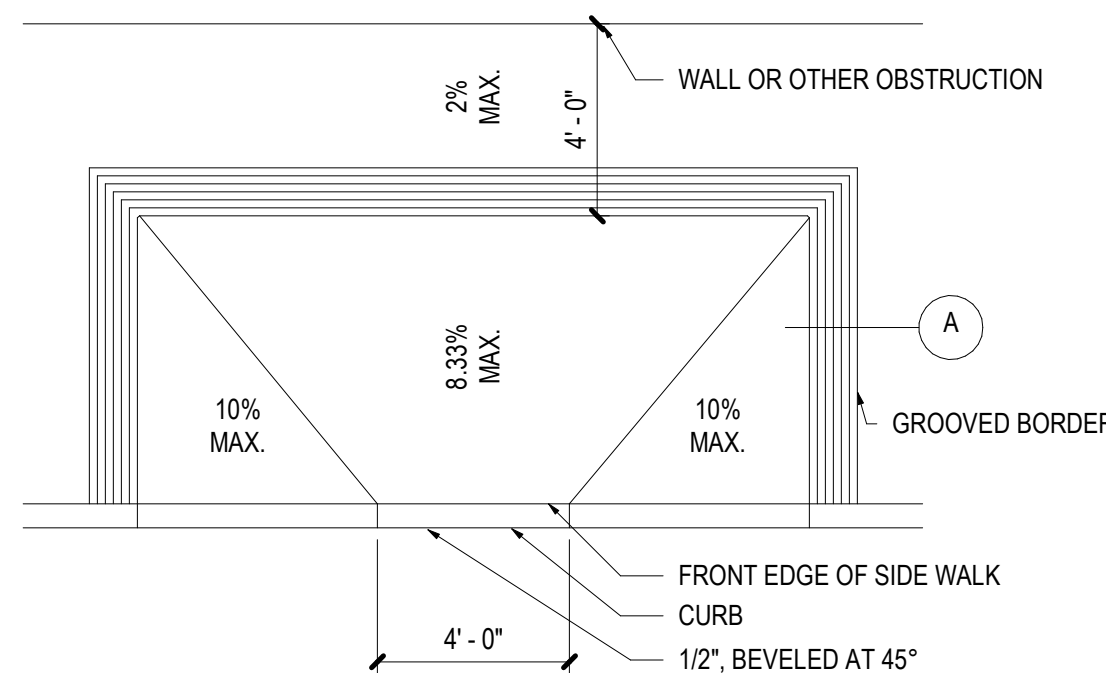
## 1 REACH RANGES

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



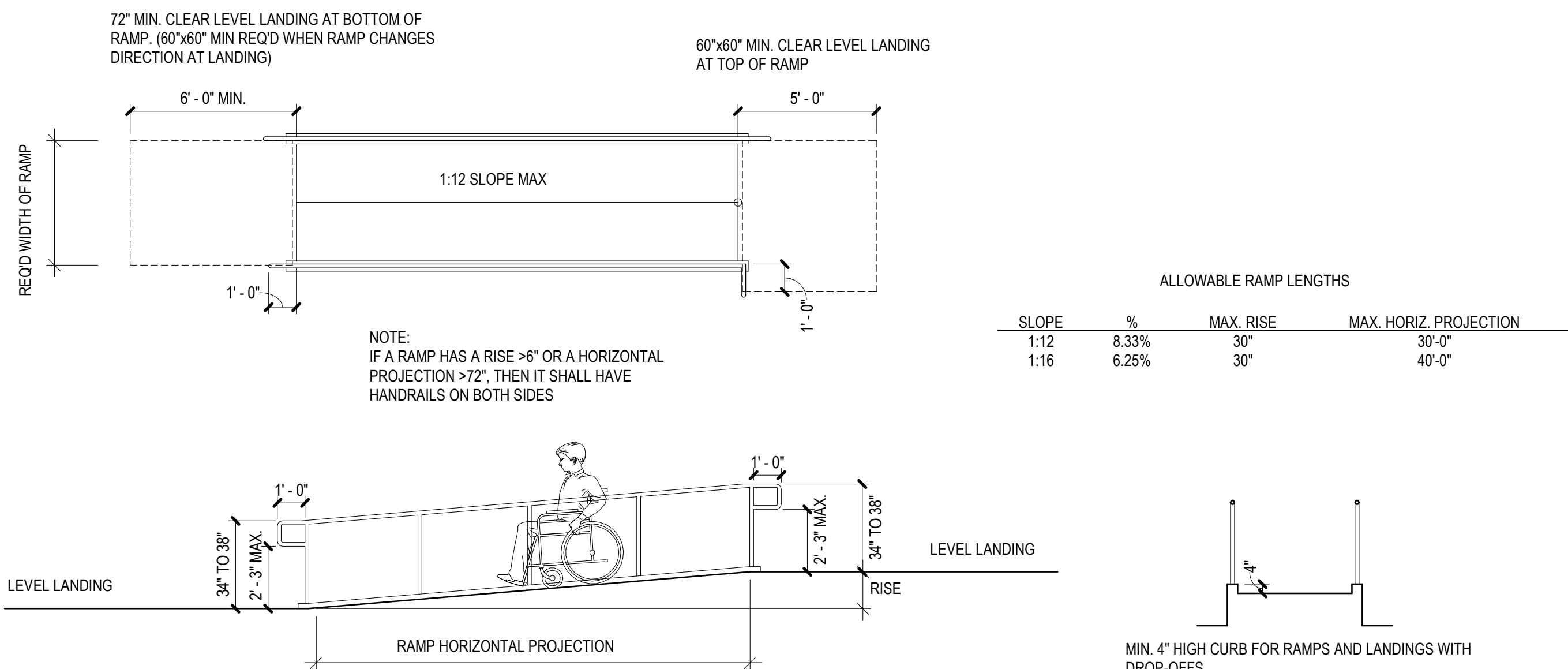
## 2 TELEPHONE

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



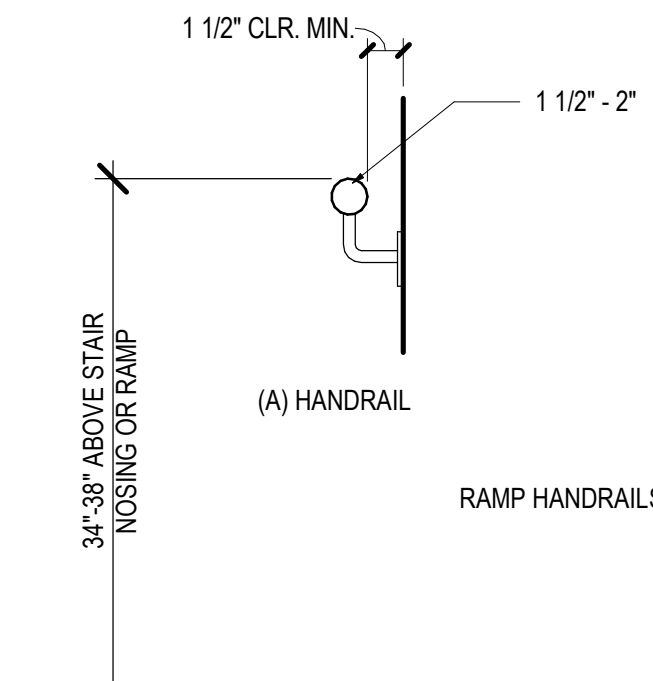
## 3 CURB CUT

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



## 8 RAMPS

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



## 4 HANDRAIL @ RAMP

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

**Steamboat**  
ALTEERRA east west partners  
MOUNTAIN COMPANY

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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

ADA REQUIREMENTS & DETAILS

Scale

As indicated

1A-G1.120



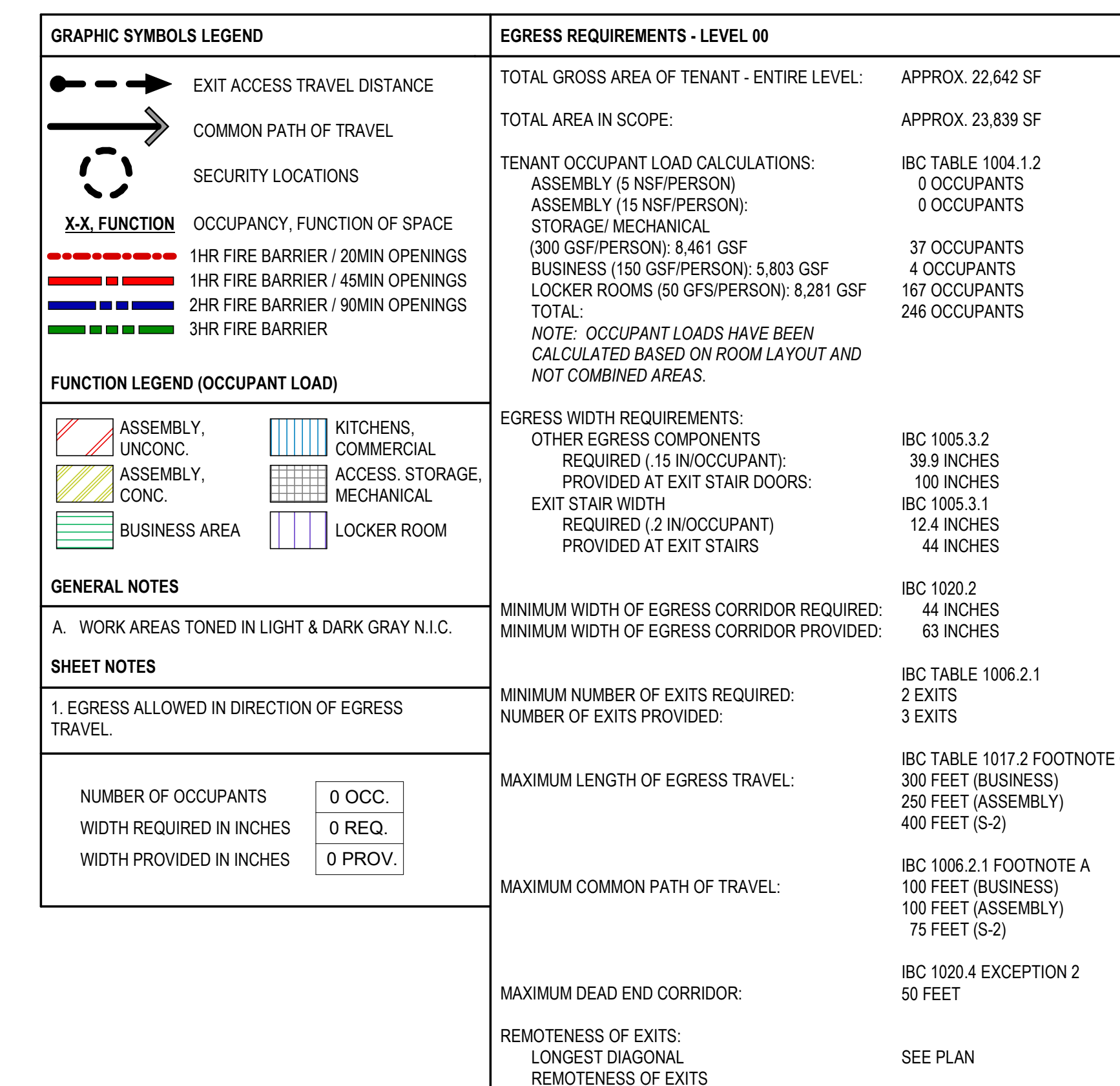
CODE ANALYSIS CONTINUED

		Future phase building. Wood structure is more than 20 feet from property line. If and where not the structure is to be located within the interior of the exterior-rated 2-hour wall.																	
402.4.3	Exterior Structural Members	where a horizontal separation of 20 feet or more is provided, wood columns conforming with section 2304.11 shall be permitted externally. If building of type IV construction has the separation distance of less than 20 feet, the wood columns and arches are to be located on the interior side of the exterior wall.	to be applied for future Plaza Building																
508.2304.11		in this table for min. dist. of heavy timber structural members																	
402.4.2	Cross Laminated Timber in exterior walls	Cross laminated timber complying with Section 2303.1.4 shall be permitted within exterior wall assemblies not less than 6 inches in thickness with a 2-hour rating or less, provided the exterior surface of the cross laminated timber is protected by one of the following:	NA - no CLT proposed in exterior walls at future Plaza Building																
706.705.8	5 Allowable Area of Openings (Based on Fire Separation Distances)																		
A. Based on Table 705.8																			
		<table><tr><th>Opening</th><th>Unprotected &amp; Sprinklered (U/S)</th></tr><tr><td>0'-0"</td><td>0'-0"</td></tr><tr><td>0'-0"</td><td>15%</td></tr><tr><td>0'-0"</td><td>25%</td></tr><tr><td>10'-10"</td><td>45%</td></tr><tr><td>10'-10"</td><td>75%</td></tr><tr><td>20'-0"</td><td>No Limit</td></tr><tr><td>20'-0"</td><td>No Limit</td></tr></table>	Opening	Unprotected & Sprinklered (U/S)	0'-0"	0'-0"	0'-0"	15%	0'-0"	25%	10'-10"	45%	10'-10"	75%	20'-0"	No Limit	20'-0"	No Limit	
Opening	Unprotected & Sprinklered (U/S)																		
0'-0"	0'-0"																		
0'-0"	15%																		
0'-0"	25%																		
10'-10"	45%																		
10'-10"	75%																		
20'-0"	No Limit																		
20'-0"	No Limit																		
707.704.2.1	6 Exterior Wall Openings Shall be Protected per Table 705.8.1																		
708	7 Fire Barriers																		
706.4	A. Shall extend from top of floor below to underside of deck above.																		
707.705.6	B. Openings shall be protected according to table below and limited if any.	Opening Rating																	
		1-hour	1-hour																
724.2	8. Opening Protection:		(Req'd 1 HR, Enclosure for shafts, stairways, exit access or passageway)																
708	Five Partitions (Corridor Walls)	20 min.																	
724	B. Corridor serving occupant loads greater than 30 in Group A,B,E,F,M,L, and U occupancies are not required when																		
725	C. Opening Protection:																		
707.705.6	A. Rating:	1-hour	(Group 0-2" steel at Group I-3)																
724.2	C. Opening:	20 min.																	
707.705.6	Fire Door Assemblies:	20 min.	See section 706.5.5 NFPA 80																
724.2	10 Glazing in Fire Door Assemblies:																		
724.2.1	A. Fire resistance rated glazing (tested to ASTM E119 or UL 263 and NFPA 252, UL 10B or UL 10C) in fire barriers and fire partitions rated greater than 1-hour is PERMITTED, see table 716.5 for																		
724.2.2	B. Fire resistance rated glazing in fire barriers and fire partitions rated greater than 1-hour is PROHIBITED.																		
727	11 Fire & Smoke Chimneys:																		
727.2	A. Required locations:																		
727.2.1	Location:																		
727.2.1	Fire Walls:																		
727.2.2	Fire Barriers:	Fire Only	Penetrations in compliance with ASTM E119 or UL 263; Ducts used as part of smoke control per Section 909																
727.2.3	Exit Enclosures:	Smoke Only																	
727.2.4	Shaft Enclosures:	Fire & Smoke	Fire dampers not required at Penetrations in compliance with ASTM E119 or UL 263; Subducts, smoke control																
724.2.4	Fire Partitions:	Fire Only	Yes for occupancies other than Group I, and 715.4.4 for Exceptions or Where duct is 0.012" gap and has no opening to corridor																
VII. FIRE PROTECTION SYSTEMS																			
903.2	1. Automatic Sprinkler System Required based on Occupancy?	Yes, Group A-2																	
903.2.1.2.1	2. Automatic Sprinkler System Required based on Special Condition?	No building is not over 55 feet in height, Class 1																	
907	3. Standpipe Class Required:	2A-100C fire extinguisher at all standpipes, located per NFPA 10, 7.5 ft max travel dist.																	
907.2.1.2.1	4. Portable Fire Extinguishers as Required by the International Fire Code:	Per NFPA 12																	
907.2.1.2.1	5. Fire Alarm and Detection Systems:	No in A-2 No in Group B exception based on automatic																	
907.2.1.2.1	6. Manual alarm required based on occupancy or special condition?	Yes, per 907.2.1.2																	
907.2.1.2.1	7. Automatic detection required based on occupancy or special condition?	Yes, per 907.2.1.2																	
VIII. EXIT REQUIREMENTS																			
1009	Refer to the code egress plans																		
1009.1	A. Quantity required:	2 or more																	
1009.1.1	2 Doors:																		
1009.1.1	A. Minimum Clear Width:	32"																	
1009.1.1	C. Floor Elevation:	0.3" due to finish material variations, 0.25" vertical per 12" horizontal at exterior doors																	
1009.1.1	D. Landings:	Not less than width of doorway or door width if greater																	
1011	3 Stairways:																		
1011.1	A. Width:	48"																	
1011.2	B. Headroom:	80"																	
1011.3	C. Rise:	7" max																	
1011.4	D. Handrails:	36" to 38" max																	
1011.5	E. Guards:	42" min. height where 30" vertical to surface below																	
1011.6	F. Guards:																		
1011.7	4 Exit Access:																		
1011.7.1	A. Separation:	1/3 of diagonal distance	Exception 2, automatic sprinkler system																
1011.7.2	C. Travel Distance:	300 ft w/ sprinkler system	B Occupancy																
1011.7.3		250 ft w/ sprinkler system	A Occupancy																
1011.7.4		400 ft w/ sprinkler system	S-2 Occupancy																
1006.2.2.1	5 Boiler, Incinerator, and Furnace rooms	Goldwalk Room 100																	
A. Quantity required		2 exit access doorways are req. in boiler, incinerator, and furnace rooms, if following conditions are met																	
B. Room size min.		sq. ft. actual = 1,400																	
C. A and fuel fired equip. size exceeds 400,000 BTUs		req. ft. = 500 sq. ft.																	
conclusion		both conditions must be met for 2 exit access doors to be req. 2 exit access doorways req. provided	2 exit access doorways provided																
1006.2.2	6 Refrigeration Machinery rooms	Mechanical / ICE plant P-005																	
A. Quantity required		2 exit access doorways are req. Following conditions are met.																	
B. Room size min.		sq. ft. actual = 1,230	2 exit access doorways provided																
all portions of machinery rooms shall be within 150 feet of an exit or exit access doorway		increases per 1017.1, allowed	150 feet provided																
1006.2.7	7 Egress through intervening spaces	allowed where the adjoining rooms or areas and the area served are accessory to one or the other.																	
A. Quantity required		Not a group IV																	
B. Room size min.		provide a discernable path of egress travel																	
C. Floor Elevation		not pass through a room that can be locked to prevent egress																	
D. Landings		shall not pass through kitchens, storage rooms, closets, or spaces used for similar purposes																	
E. Guards		note per commentary this is not meant to prevent egress through > 2 occupancies, the concern is for blocking the egress path. If a discernable egress path is kept egress is allowed.	egress through adjoining rooms req. for storage rooms discernable path will be provided																
1009	8 Corridors:																		
1009.1	A. Construction:	Fire-resistance rating in accordance with Table 1002.1.1 and Section 708 for fire partitions																	
706.1009.1.1	B. Fire resistance rating:	2-hour, A-2 Occupancy where occupant load served by corridor 100 is sprinklered																	
706.1009.1.2	C. Width:	5.5 ft min. 4' min. for Group I Occupancy where occupant load served by corridor 100 is sprinklered																	
1009.1.3	D. Air movement:	corridors do not provide air																	
1009.1.4	E. Corridor continuity:																		
IX. Accessibility Requirements																			
1403	1. Accessibility for existing buildings:																		
1403.2	A. Extent of Application: an alteration of an existing element, space or area of a building or facility shall not impose a requirement for greater accessibility than that which would																		
1403.2.1	3. Toilet Rooms: Where it is technically infeasible to alter existing toilet and bathing facilities to be accessible, an accessible unused toilet or bathing facility is permitted. The toilet																		

CODE ANALYSIS

Gender		CODE COMPLIANCE SUMMARY	
I. PROJECT INFORMATION			
Project Name:		Steamboat Base Village - Redevelopment BP3 Promenade	Project #:
Location:		2101 Mount Werner Circle, Steamboat Springs, CO 80487	2021.05.00
Authority Having Jurisdiction:		Basalt County, Steamboat Springs, Co.	
Owner:		Steamboat Ski and Resort Corporation	
NEW BUILDING			
Building Code:		International Building Code	Year:
Mechanical Code:		International Mechanical Code	Year:
Plumbing Code:		International Plumbing Code	Year:
Electrical Code:		National Electrical Code	Year:
Energy Code:		International Energy Conservation Code	Year:
ASHRAE 90.1:		2010	2010
Local Amendments:		City of Steamboat Springs Code adoption ordinance	Year:
Fire Code:		ADA Standards for Accessible Design	Year:
Other:		ANSI/ASME A17.1 Safety Code for Elevators	Year:
		International Existing Building Code (If Applicable)	Year:
		Use of ASHRAE 90.1 is per RCC 2018 C402.2, item 1, path for compliance per ASHRAE/ASHRAE 90.1A 2010.	2010
Code Analysis by:		Geoffrey Broadwater	Date: 2021.05.19
II. USE AND OCCUPANCY CLASSIFICATION			
1. Occupancy Classification:		New	
A. Primary Occupancy:		8 (Office, Retail), A-2 (Restaurant), S-2 (Storage, mechanical)	
302.1	H occupancy	The quantities of hazardous materials do not exceed tables 302.1 and 307.2. This item is not H Occupancy. Building is to be maintained in accordance with ICC.	
307.1	Mechanical Use Floor, Room No. P005, Not a classification. Per item 7, Refrigeration systems are not to be classified as Group H but shall be classified as the occupancy that it most closely resembles. The classification proposed is S-2.		
B. Incidental Use Areas:			
		Furnace room where any piece of equipment is over 400,000 Btu per hour input.	sprinkler system provided, equipment is over 400,000 Btu. Sprinkler system and smoke partitions to be provided.
		1-hour or provide automatic sprinkler system	
		Rooms with boilers where the largest piece of equipment is over 150,000 Btu and 10 horsepower	sprinkler system provided, No equipment is over 150,000 Btu.
		1-hour or provide automatic sprinkler system	
C. Accessory Use Areas (150k):			
		refrigerant machinery rooms	1-hour or provide automatic sprinkler system - sprinkler system provided
		Laundry rooms over 100 sq. ft.	1-hour or provide automatic sprinkler system - sprinkler system provided
		Electrical installations and transformers	See Sections 1101.24 through 1101.34 and Sections 400.8 through 400.48 of NFPA 70 for protection and suppression requirements.
		no accessory occupancies, each occupancy is more than 12% of the others.	ratings indicated on drawings
III. Special Detailed Requirements Based on Occupancy			
High-Rise Buildings:		building height from grade plane to average height of roof surface is less than 75 ft.	No - N/A
Is the building high-rise (>5 feet)?		building height from grade plane to average height of roof surface is less than 75 ft.	No - N/A
Underground Buildings:		finished floor of the lowest level of exit discharge	NA
Hazardous Materials:		no hazardous materials are being used or stored in this building	NA
IV. General Building Heights and Areas			
Building height and number of stories:		in a building containing mixed occupancies, in accordance with section 108, no individual occupancy shall exceed the height and number of story limits specified for the applicable occupancy.	Mixed Occupancy Building Proposed
Mixed occupancy mixed occupancy, multi-story buildings		each story of a mixed occupancy building with more than one story above the grade plane shall individually comply with the applicable requirements of section 108.1	
for buildings more than three stories above the grade plane, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of each story, determined in accordance with Equation 5-1 based on the applicable provisions of Section 108.1, shall not exceed three.		NA - design is 3 stories not over three stories	
ALLOWABLE AREA A HEIGHT			
1. Area of Building Proposed (Gross Floor Area):			
Level 01		23,870 SF	
Level 02		16,310 SF	
Level 03		16,310 SF	
Level 04		23,870 SF	
Level 05		23,870 SF	
Level 06		23,870 SF	
Level 07		23,870 SF	
Level 08		23,870 SF	
Level 09		23,870 SF	
Level 10		23,870 SF	
Level 11		23,870 SF	
Level 12		23,870 SF	
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Level 32			





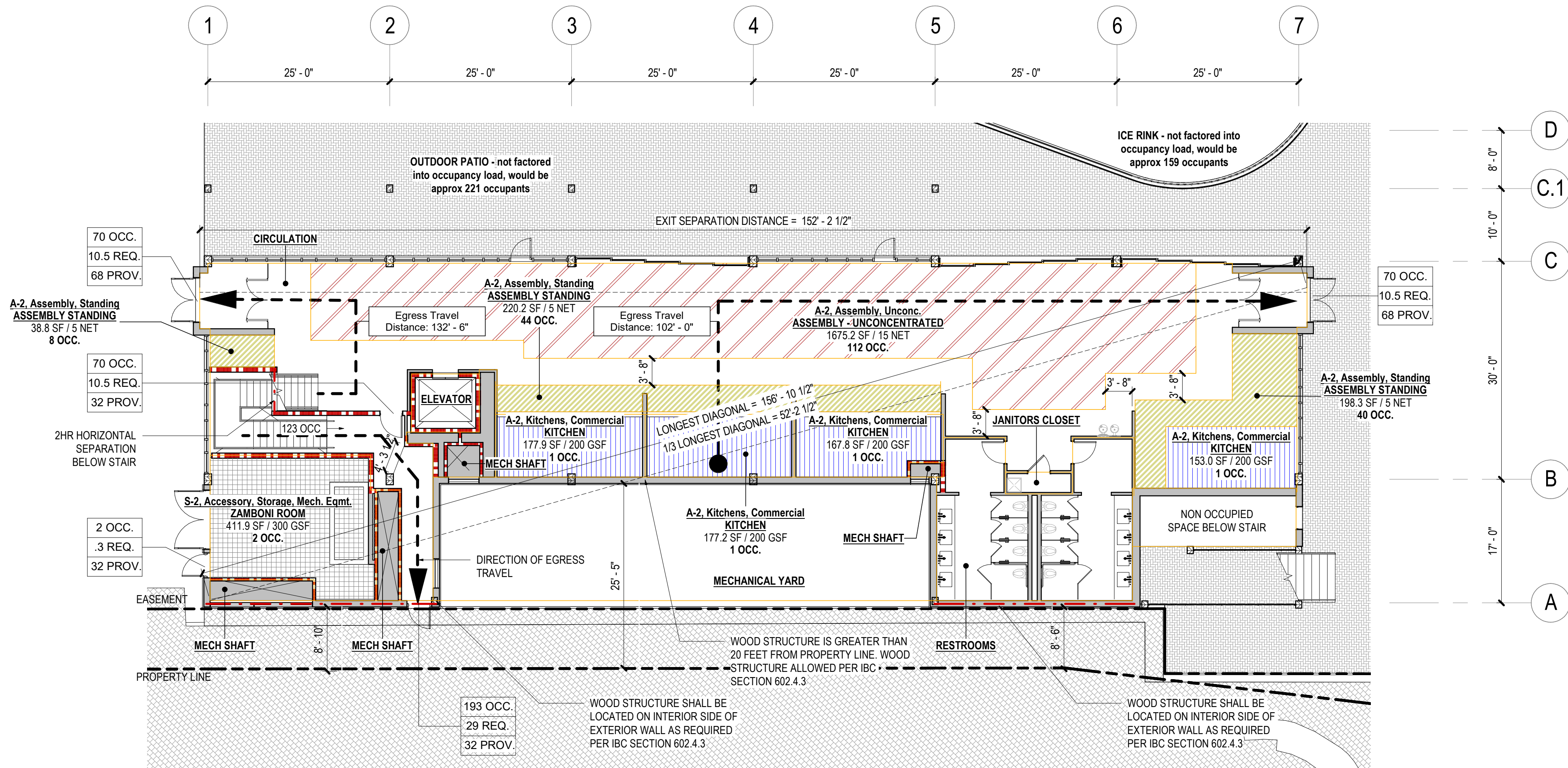
LEVEL 00						
OCCUPANCY TOTALS						
		'A'	'B'	'S'		
		0	209	37		
FIXTURE REQUIREMENTS		REQUIRED 'A'	REQUIRED 'B'	REQUIRED 'S'	TOTAL REQUIRED	PROVIDED
WATER CLOSETS	MEN	0/125 = 0	2 + (54.5/50) = 3.09	18.5/100 = .185	3.275	10.5
	WOMEN	0/65 = 0	2 + (54.5/50) = 3.09	18.5/100 = .185	3.275	10.5
LAVATORIES	MEN	0/200 = 0	2 + (29/80) = 2.3625	18.5/100 = .185	2.5475	7.5
	WOMEN	0/200 = 0	2 + (29/80) = 2.3625	18.5/100 = .185	2.5475	7.5
DRINKING FOUNTAINS		0/500 = 0	209/100 = 2.09	37/1,000 = .037	2.127	4
SERVICE SINK					1	1

\*UNISEX RESTROOM WATER CLOSET AND LAVATORY COUNTS HAVE BEEN APPLIED AS .5 PER EACH SEX.



## 01 EGRESS & OCCUPANCY PLAN - LEVEL 01

SCALE: 3/32" = 1'-0"



GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL 01	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 5,194 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 6,204 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
<b>X.X. FUNCTION</b>	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON): 457.3 NSF	92 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	ASSEMBLY (15 NSF/PERSON): 1,675.2 NSF	112 OCCUPANTS
	2HR FIRE BARRIER / 45MIN OPENINGS	STORAGE/MECHANICAL (300 GSF/PERSON): 411.5 GSF	2 OCCUPANTS
	3HR FIRE BARRIER / 90MIN OPENINGS	BUSINESS (150 GSF/PERSON):	0 OCCUPANTS
		COMMERCIAL KITCHEN (200 GSF/PERSON): 675.9 GSF	4 OCCUPANTS
		LOCKER ROOMS (50 GSF/PERSON):	0 OCCUPANTS
		TOTAL:	210 OCCUPANTS
		NOTE: OCCUPANT LOADS HAVE BEEN CALCULATED BASED ON ROOM LAYOUT AND NOT COMBINED AREAS.	
FUNCTION LEGEND (OCCUPANT LOAD)		EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	ASSEMBLY, UNCONC.	OTHER EGRESS COMPONENTS REQUIRED (15 INOCCUPANT):	31.5 INCHES
	ASSEMBLY, CONC.	PROVIDED AT EXIT STAIR DOORS:	170 INCHES
	BUSINESS AREA	EXIT STAIR WIDTH REQUIRED (2 INOCCUPANT):	IBC 1005.3.1
	KITCHENS, COMMERCIAL	PROVIDED AT EXIT STAIRS:	NA
	ACCESS, STORAGE, MECHANICAL		
	LOCKER ROOM		
GENERAL NOTES		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
A. WORK AREAS TONED IN LIGHT & DARK GRAY N.I.C.		MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	44 INCHES
SHEET NOTES		MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.2.1
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		NUMBER OF EXITS PROVIDED:	2 EXITS
NUMBER OF OCCUPANTS		MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE C
WIDTH REQUIRED IN INCHES			300 FEET (BUSINESS)
WIDTH PROVIDED IN INCHES			250 FEET (ASSEMBLY)
			400 FEET (S-2)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
			100 FEET (BUSINESS)
			100 FEET (ASSEMBLY)
			75 FEET (S-2)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
			50 FEET
		REMOVEDNESS OF EXITS:	SEE PLAN
		LONGEST DIAGONAL REMOTENESS OF EXITS	

LEVEL 01						
OCCUPANCY TOTALS	'A'	'B'	'S'			
	208	0	2			
FIXTURE REQUIREMENTS						
	REQUIRED 'A'	REQUIRED 'B'	REQUIRED 'S'	TOTAL REQUIRED	PROVIDED	
WATER CLOSETS	MEN 104/125 = .832	$X + (X/50) = 0$	1/100 = .02	.852	4	
	WOMEN 104/65 = 1.6	$X + (X/50) = 0$	1/100 = .02	1.62	4	
LAVATORIES	MEN 104/200 = .52	$X + (X/80) = 0$	1/100 = .02	.54	4	
	WOMEN 104/200 = .52	$X + (X/80) = 0$	1/100 = .02	.54	4	
DRINKING FOUNTAINS	208/500 = .416	$X / 100 = 0$	2/1,000 = .002	.418	2	
SERVICE SINK				1	1	

## SHEET NOTES



ALTRERA east west partners  
MOUNTAIN COMPANY

2305 Mount Werner Circle  
Steamboat Springs, CO 80487

## Gensler

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United States



141 9th Street  
PO Box 774943  
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12499 West Colfax Ave.  
Lakewood, CO 80215  
United States  
Tel 303.431.6100



14143 Denver West Pkwy  
Suite 300  
Golden, CO 80204  
United States  
Tel 303.421.6655

## GENERAL NOTES

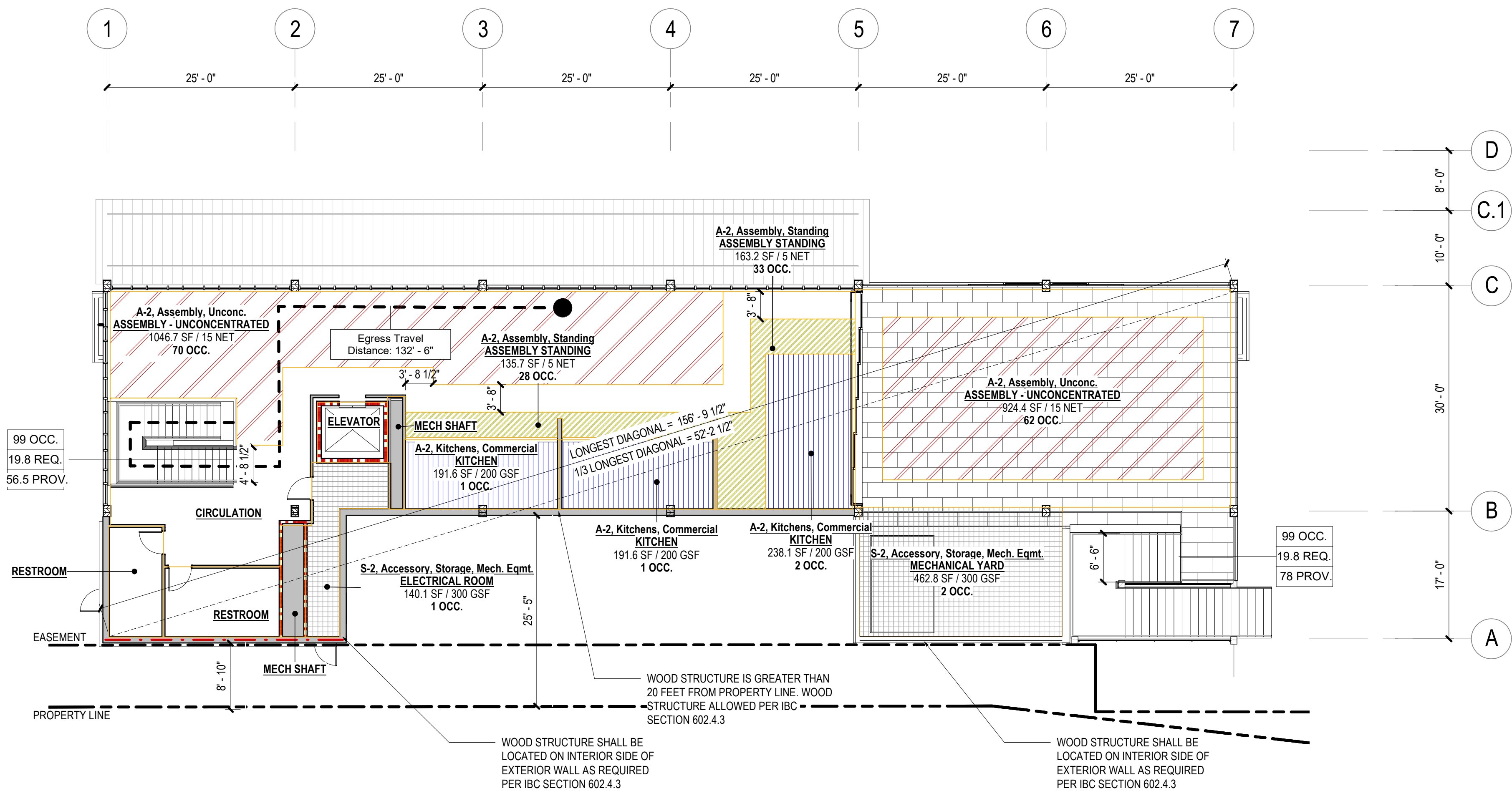
A. THE PLAZA BUILDING LEVEL 01 AND LEVEL 02 IS FUTURE NIC. IT IS BEING SHOWN TO CLARIFY THE CURRENT INTENT OF THE FINAL PROJECT.

GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL 02	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 4,162 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 6,176 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
<b>X.X. FUNCTION</b>	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON): 298.9 NSF	61 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	ASSEMBLY (15 NSF/PERSON): 1,971.1 NSF	132 OCCUPANTS
	2HR FIRE BARRIER / 45MIN OPENINGS	STORAGE/MECHANICAL (300 GSF/PERSON): 622.9 GSF	3 OCCUPANTS
	3HR FIRE BARRIER / 90MIN OPENINGS	BUSINESS (100 GSF/PERSON):	0 OCCUPANTS
		COMMERCIAL KITCHEN (200 GSF/PERSON): 621.3 GSF	4 OCCUPANTS
		LOCKER ROOMS (50 GSF/PERSON):	0 OCCUPANTS
		TOTAL:	200 OCCUPANTS
		NOTE: OCCUPANT LOADS HAVE BEEN CALCULATED BASED ON ROOM LAYOUT AND NOT COMBINED AREAS.	
FUNCTION LEGEND (OCCUPANT LOAD)		EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
	ASSEMBLY, UNCONC.	OTHER EGRESS COMPONENTS REQUIRED (15 INOCCUPANT):	30 INCHES
	ASSEMBLY, CONC.	PROVIDED AT EXIT STAIR DOORS:	90 INCHES
	BUSINESS AREA	EXIT STAIR WIDTH REQUIRED (2 INOCCUPANT):	IBC 1005.3.1
	KITCHENS, COMMERCIAL	PROVIDED AT EXIT STAIRS:	40 INCHES
	ACCESS, STORAGE, MECHANICAL		134.5 INCHES
	LOCKER ROOM		
GENERAL NOTES		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
A. WORK AREAS TONED IN LIGHT & DARK GRAY N.I.C.		MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	NA
SHEET NOTES		MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.2.1
1. EGRESS ALLOWED IN DIRECTION OF EGRESS TRAVEL.		NUMBER OF EXITS PROVIDED:	2 EXITS
NUMBER OF OCCUPANTS		MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE C
WIDTH REQUIRED IN INCHES			300 FEET (BUSINESS)
WIDTH PROVIDED IN INCHES			250 FEET (ASSEMBLY)
			400 FEET (S-2)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
			100 FEET (BUSINESS)
			100 FEET (ASSEMBLY)
			75 FEET (S-2)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
			50 FEET
		REMOVEDNESS OF EXITS:	SEE PLAN
		LONGEST DIAGONAL REMOTENESS OF EXITS	

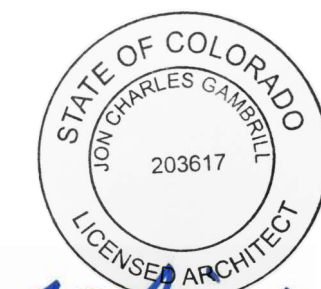
LEVEL 02						
OCCUPANCY TOTALS	'A'	'B'	'S'			
	197	0	3			
FIXTURE REQUIREMENTS						
	REQUIRED 'A'	REQUIRED 'B'	REQUIRED 'S'	TOTAL REQUIRED	PROVIDED	
WATER CLOSETS	MEN 98.5/125 = .788	$X + (X/50) = 0$	1.5/100 = .015	.8	1	
	WOMEN 98.5/65 = 1.51	$X + (X/50) = 0$	1.5/100 = .015	1.53	1	
LAVATORIES	MEN 98.5/200 = .49	$X + (X/80) = 0$	1.5/100 = .015	.50	1	
	WOMEN 98.5/200 = .49	$X + (X/80) = 0$	1.5/100 = .015	.50	1	
DRINKING FOUNTAINS	197/500 = .394	$X / 100 = 0$	3/1,000 = .003	.397	0	
SERVICE SINK				1	1	

## 02 EGRESS & OCCUPANCY PLAN - LEVEL 02

SCALE: 3/32" = 1'-0"



Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA  
IMPROVEMENTS

Project Number

003.7835.000

Description

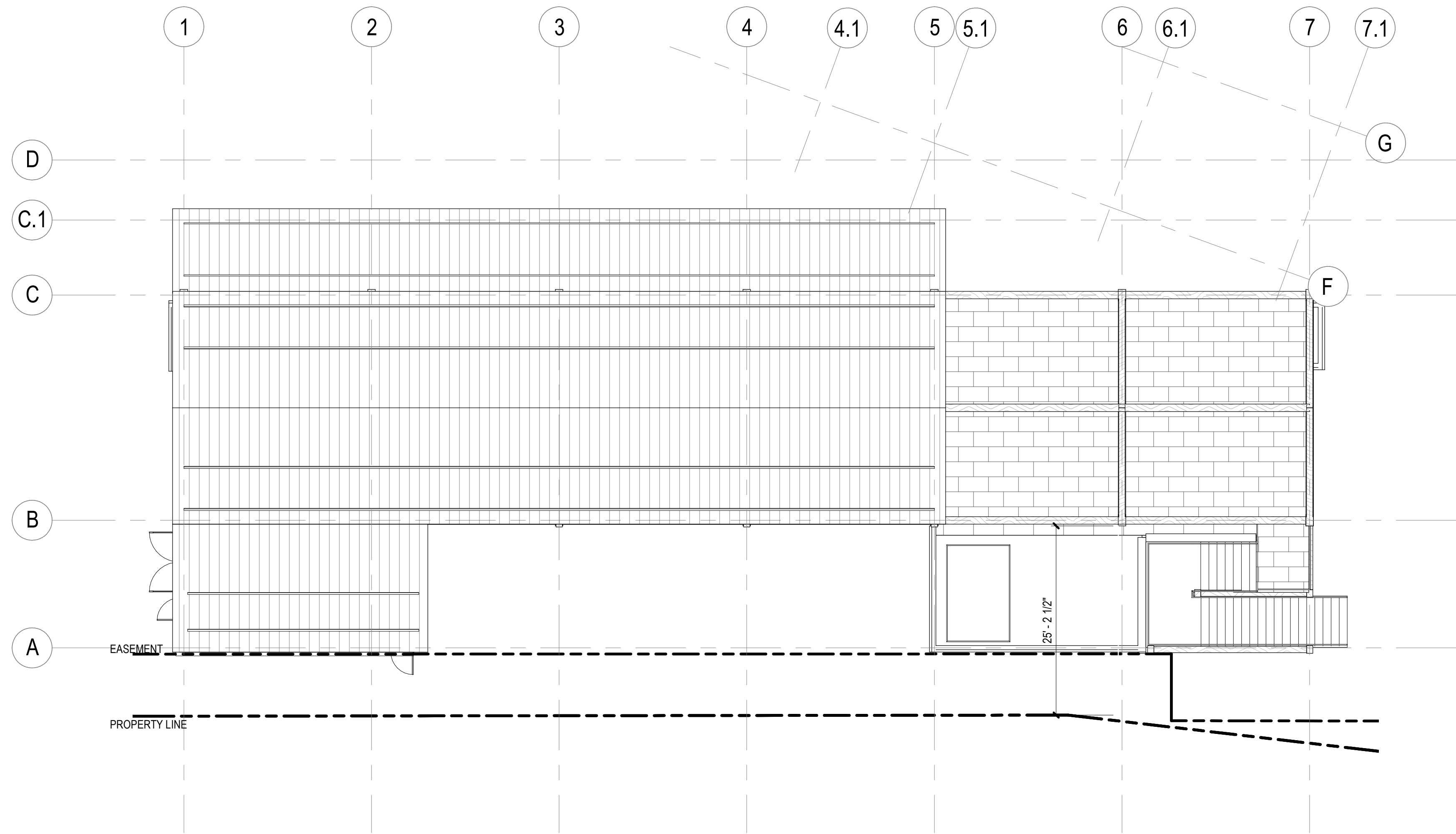
EGRESS & OCCUPANCY PLAN -  
LEVEL 01

Scale

As indicated

# 1A-G3.101





01 EGRESS AND OCCUPANCY PLAN - ROOF  
SCALE: 3/32" = 1'-0"

GRAPHIC SYMBOLS LEGEND		EGRESS REQUIREMENTS - LEVEL ROOF	
	EXIT ACCESS TRAVEL DISTANCE	TOTAL GROSS AREA OF TENANT - ENTIRE LEVEL:	APPROX. 8,501 SF
	COMMON PATH OF TRAVEL	TOTAL AREA IN SCOPE:	APPROX. 8,501 SF
	SECURITY LOCATIONS	TENANT OCCUPANT LOAD CALCULATIONS:	IBC TABLE 1004.1.2
<b>X-X, FUNCTION</b>	OCCUPANCY, FUNCTION OF SPACE	ASSEMBLY (5 NSF/PERSON):	0 OCCUPANTS
	1HR FIRE BARRIER / 20MIN OPENINGS	ASSEMBLY (15 NSF/PERSON):	0 OCCUPANTS
	1HR FIRE BARRIER / 45MIN OPENINGS	ACCESSORY (300 GSF/PERSON):	0 OCCUPANTS
	2HR FIRE BARRIER / 90MIN OPENINGS	BUSINESS (150 GSF/PERSON):	0 OCCUPANTS
	3HR FIRE BARRIER	LOCKER ROOMS (50 GSF/PERSON):	0 OCCUPANTS
		TOTAL:	0 OCCUPANTS
		EGRESS WIDTH REQUIREMENTS:	IBC 1005.3.2
		OTHER EGRESS COMPONENTS:	NA
		REQUIRED (15 IN/OCCUPANT):	NA
		PROVIDED AT EXIT STAIR DOORS:	IBC 1005.3.1
		EXIT STAIR WIDTH:	NA
		REQUIRED (2 IN/OCCUPANT):	NA
		PROVIDED AT EXIT STAIRS:	NA
		MINIMUM WIDTH OF EGRESS CORRIDOR REQUIRED:	IBC 1020.2
		MINIMUM WIDTH OF EGRESS CORRIDOR PROVIDED:	NA
		MINIMUM NUMBER OF EXITS REQUIRED:	IBC TABLE 1006.3.1
		NUMBER OF EXITS PROVIDED:	0 EXITS
		MAXIMUM LENGTH OF EGRESS TRAVEL:	IBC TABLE 1017.2 FOOTNOTE G
			300 FEET (BUSINESS)
			250 FEET (ASSEMBLY)
			400 FEET (S-2)
		MAXIMUM COMMON PATH OF TRAVEL:	IBC 1006.2.1 FOOTNOTE A
			100 FEET (BUSINESS)
			100 FEET (ASSEMBLY)
			75 FEET (S-2)
		MAXIMUM DEAD END CORRIDOR:	IBC 1020.4 EXCEPTION 2
			50 FEET
		REMOVEDNESS OF EXITS:	SEE PLAN, OR
		LONGEST DIAGONAL	N/A AS SUITE IS < 5,000 SF
		REMOVEDNESS OF EXITS	

**ALERRA** east west partners  
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12499 West Colfax Ave.  
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United States  
Tel 303.431.6100

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature

Project Name  
SSRC | BASE AREA IMPROVEMENTS

Project Number  
003.7835.000

Description  
EGRESS & OCCUPANCY PLAN - ROOF

Scale  
As indicated



## UL DESIGN NO. U419 CONTINUED

5B. **Gypsum Board\*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Item 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 13) or Lead Clips or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board\*** — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SCX

USG MEXICO S A DE CV — Type SCX

5D. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG MEXICO S A DE CV — Type USGX

5E. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine drillers) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelo

5F. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 hour Rating only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX

USG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX

5G. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 13A) or Lead Clips (see Item 12A).

HAJOY INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board\*** — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

## UL DESIGN NO. U419 CONTINUED

1		2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1		1-5/8	1 layer, 3/4 in. thick	Optional
2		1-5/8	2 layers, 1/2 in. thick	Optional
2		1-5/8	2 layers, 5/8 in. thick	Optional
2		3-1/2	1 layer, 3/4 in. thick	3 in.
3		1-5/8	3 layers, 1/2 in. thick	Optional
3		1-5/8	2 layers, 3/4 in. thick	Optional
3		1-5/8	3 layers, 5/8 in. thick	Optional
4		1-5/8	4 layers, 5/8 in. thick	Optional
4		1-5/8	4 layers, 1/2 in. thick	Optional
4		2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members\***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE CV — Type SHX.

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1		3-1/2	1 layer, 5/8 in. thick
1		2-1/2	1 layer, 1/2 in. thick
1		1-5/8	1 layer, 3/4 in. thick
2		1-5/8	2 layers, 1/2 in. thick
2		1-5/8	2 layers, 5/8 in. thick
2		3-1/2	1 layer, 3/4 in. thick
3		1-5/8	3 layers, 1/2 in. thick
3		1-5/8	2 layers, 3/4 in. thick
3		1-5/8	3 layers, 5/8 in. thick
4		1-5/8	4 layers, 5/8 in. thick
4		1-5/8	4 layers, 1/2 in. thick
4		2-1/2	2 layers, 3/4 in. thick

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members\***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE CV — Type SHX.

## UL DESIGN NO. U419 CONTINUED

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs** — (As an alternate to Item 2, For use with Items 3B, 3C, 3D, 3E and 3F) — Channel shaped, fabricated from min 25 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members\*** — **Steel Studs** — (As an alternate to Item 2, For use with Items 3C, 3D or 3E) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

2C. **Framing Members\*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2D. **Framing Members\*** — **Steel Studs** — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. **Framing Members\*** — **Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Items 3F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 3F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members\*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members\*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than the assembly height.

STUDCO BUILDING SYSTEMS — CROSTUD

2H. **Framing Members\*** — **Steel Studs** — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members\*** — **Steel Studs** — (As an alternate to Item 2, For use with Items 3C or 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members\*** — **Metal Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

TELLING INDUSTRIES L L C — Viper20™

2K. **Framing Members\*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC — EB Stud

2L. **Framing Members\*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members\*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2O. **Framing Members\*** — **Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DCS P1 or PS2, or APA Standard P108-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC in the perimeter and 12 in. OC in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets\*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets\*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Batts and Blankets\*** — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5. **Gypsum Board\*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 2 1/2 hr, 3 hr and 4 hr ratings are as follows:

## UL DESIGN NO. U419

### BXUV - Fire Resistance Ratings - ANSI/UL 263

### BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

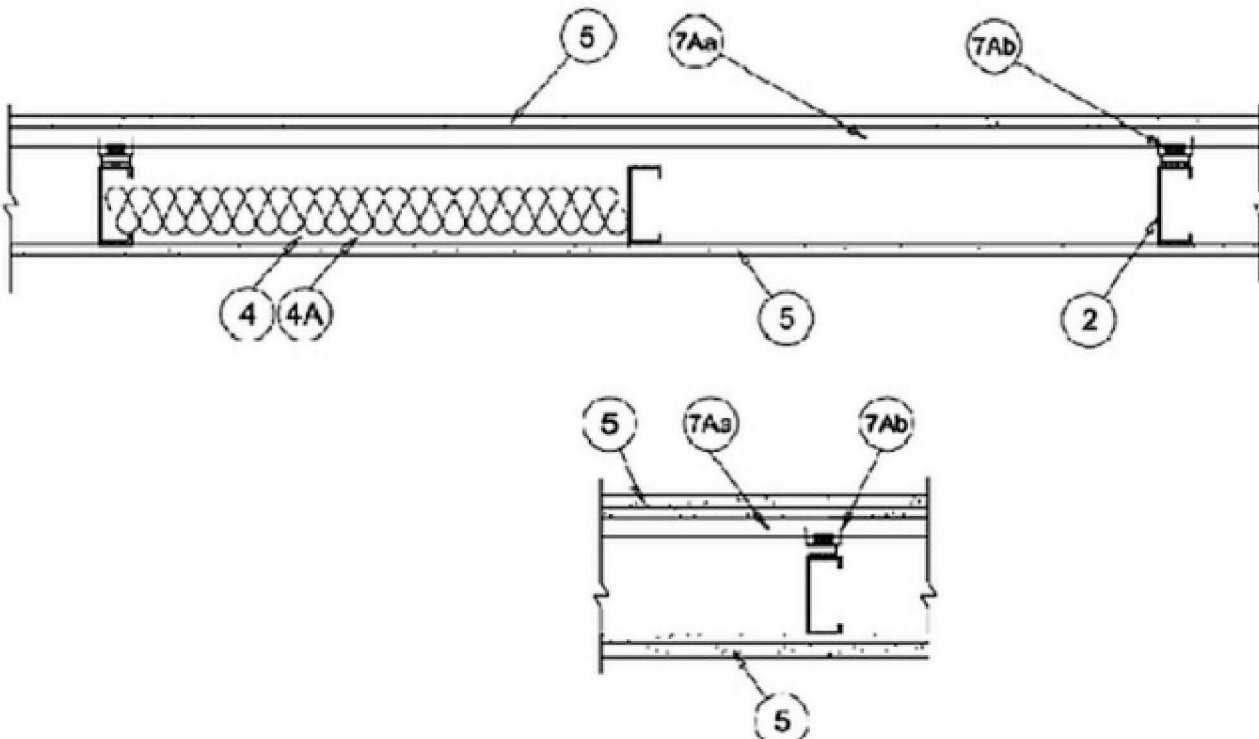
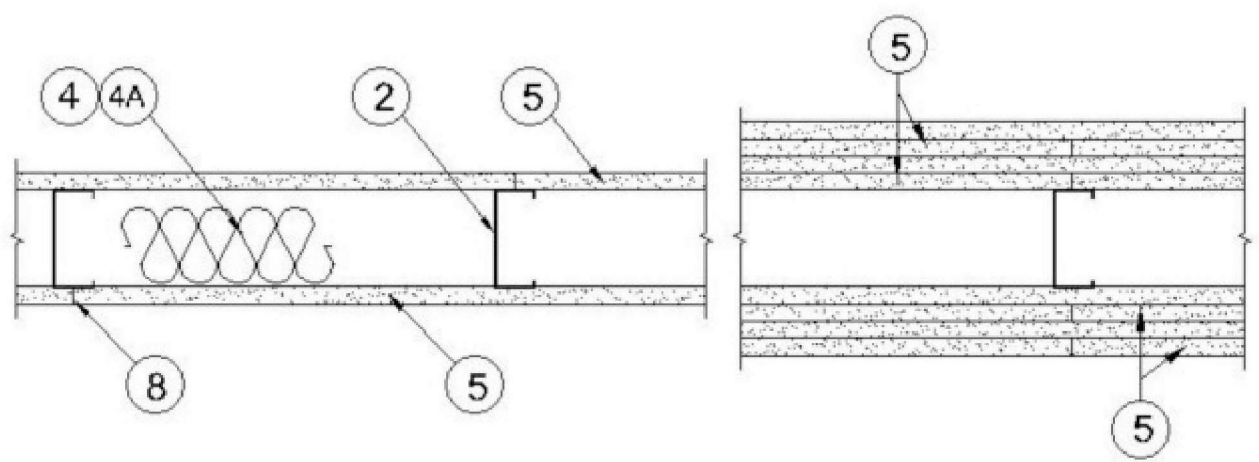
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

#### Design No. U419

August 25, 2016

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor

and ceiling with fasteners 24 in. OC max.

1A. **Framing Members\*** — **Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

1B. **Framing Members\*** — **Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1C. **Framing Members\*** — **Floor and Ceiling Runners** — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

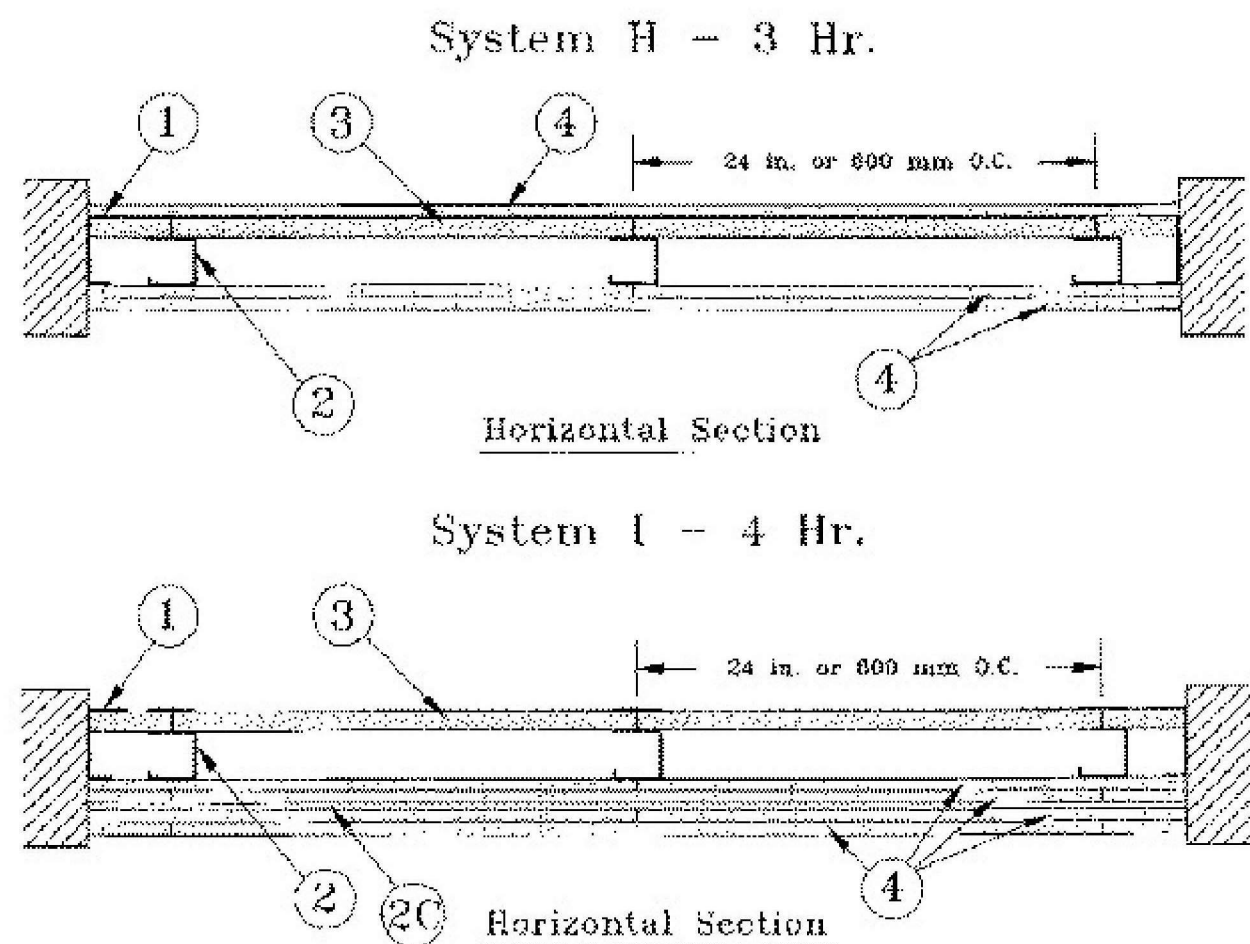
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System



## UL DESIGN NO. U415 CONTINUED



1. **Floor, Side and Ceiling Runners** – "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** – "C" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm O.C. max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs** – (Not Shown) – "E" - shaped studs installed back to back in place of "C" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels** – (Optional, Not Shown) – For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7).

2C. **Furring Channels** – For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members** – (Optional, Not Shown) – For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7):

a. **Furring Channels** – Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** – Used to attach furring channels (Item 2D) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSC-1 clip for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C – Types RSC-1, RSC-1 (2.75)

2E. **Steel Framing Members** – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

b. **Steel Framing Members** – Used to attach furring channels (Item 2Ea) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS – RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members** – (Optional, Not Shown) – For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7):

a. **Furring Channels** – Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members** – Used to attach furring channels (Item 2Fb) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC – Type GENIECLIP

3. **Gypsum Board** – Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C" or "E" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC – Type SLX

UNITED STATES GYPSUM CO – Type SLX

USG BORAL ZAWAWI DRYWALL L L C SFZ – Type SLX

USG MEXICO S A DE CV – Type SLX

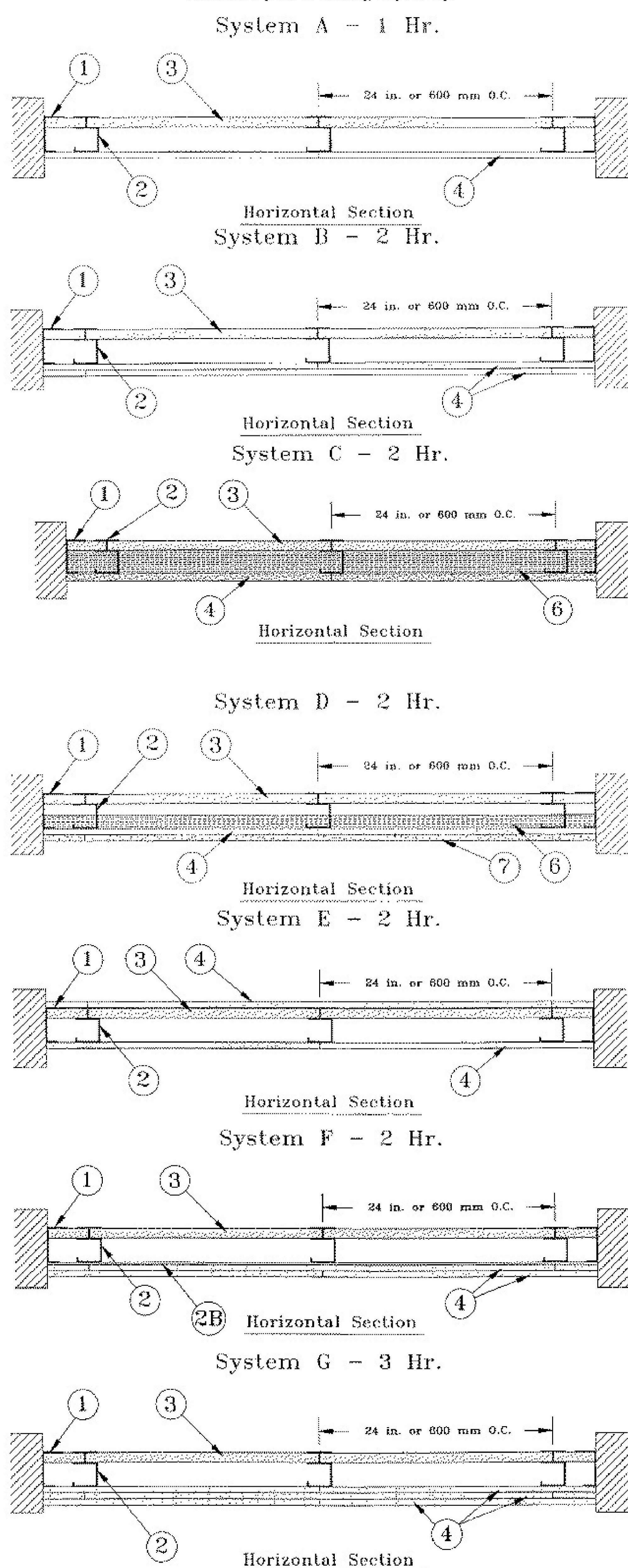
## UL DESIGN NO. U415

### Design No. U415

July 14, 2016

Nonbearing Wall Ratings – 1, 2, 3 or 4 Hr

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



## UL DESIGN NO. U419 CONTINUED

with screws offset 8 in. from first layer. Three-layer systems: First layer: 1 in. long screws, spaced 24 in. OC. Second layer: 1-5/8 in. long screws, spaced 24 in. OC. Third layer: 2-5/8 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer: 1 in. long screws, spaced 24 in. OC. Second layer: 1-5/8 in. long screws, spaced 24 in. OC. Third layer: 2-5/8 in. long screws, spaced 24 in. OC. Fourth layer: 3 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels** – (Optional, Not Shown, for single or double layer systems) – Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members** – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7Aa) to studs (Item 7). Clips spaced max. 48 in. OC. RSC-1 and RSC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSC-V and RSC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSC-1 and RSC-V clips for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) and RSC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C – Types RSC-1, RSC-V, RSC-1 (2.75), RSC-V (2.75)

7B. **Framing Members** – (Optional, Not Shown) – As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7Ba) to one side of studs (Item 7) only. Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC – Type Isomax

7C. **Framing Members** – (Not Shown) – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7Ca) to studs (Item 7). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC – Type GENIECLIP

7D. **Steel Framing Members** – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:

a. **Furring Channels** – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.

b. **Steel Framing Members** – Used to attach furring channels (Item 7Dd) to studs. Clips spaced 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS – RESILMOUNT Sound Isolation Clips - Type A237 or A237R

8. **Joint Tape and Compound** – Vinyl or casing, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco** – (Optional, Not Shown) – Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies. Installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants** – (Optional, Not Shown) – A bead of acoustical sealant applied around the perimeter for sound control.

UNITED STATES GYPSUM CO – Type A5

11. **Lead Batten Strips** – (Not Shown, For Use With Item 5B) – Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

11A. **Lead Batten Strips** – (Not Shown, For Use With Item 5H) – Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs** – (Not Shown, For Use With Item 5B) – Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C".

12A. **Lead Discs** – (Not Shown, for use with Item 5H) – Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201F, Grade "B, C or D".

13. **Lead Batten Strips** – (Not Shown, For Use With Item 5E) – Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs** – (Not Shown, For Use With Item 5B) – 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-08-25

## UL DESIGN NO. U419 CONTINUED

UNITED STATES GYPSUM CO – Type ULX

USG MEXICO S A DE CV – Type ULX

5J. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, for direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C".

RADIATION PROTECTION PRODUCTS INC – Type RPP - Lead Lined Drywall

5K. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5) – Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2 through 20	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO – 5/8 in. thick Type ULX

6. **Fasteners** – (Not Shown) – For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners** – (Not Shown) – For use with Item SK- Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer: 1 in. long screws, spaced 16 in. OC. Second layer: 1-5/8 in. screws, spaced 8 in. OC.

UNITED STATES GYPSUM CO – Type ULX

USG MEXICO S A DE CV – Type ULX

5J. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, for direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "C".

RADIATION PROTECTION PRODUCTS INC – Type RPP - Lead Lined Drywall

5K. **Gypsum Board** – (Not Shown) – (As an alternate to Item 5) – Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2 through 20	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO – 5/8 in. thick Type ULX

6. **Fasteners** – (Not Shown) – For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners** – (Not Shown) – For use with Item SK- Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer: 1 in. long screws, spaced 16 in. OC. Second layer: 1-5/8 in. screws, spaced 8 in. OC.



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14143 Denver West Pkwy  
Suite 300  
Golden, CO 80601  
United States  
Tel 303.421.6655

Date	Description
2021.05.19	BP3 PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name: 05.19.2021

SSRC | BASE AREA  
IMPROVEMENTS

Project Number

003.7835.000

Description

U.L. ASSEMBLIES

Scale

12" = 1'-0"

1A-G4.002



## UL DESIGN NO. X701

### BXUV - Fire Resistance Ratings - ANSI/UL 263

### BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

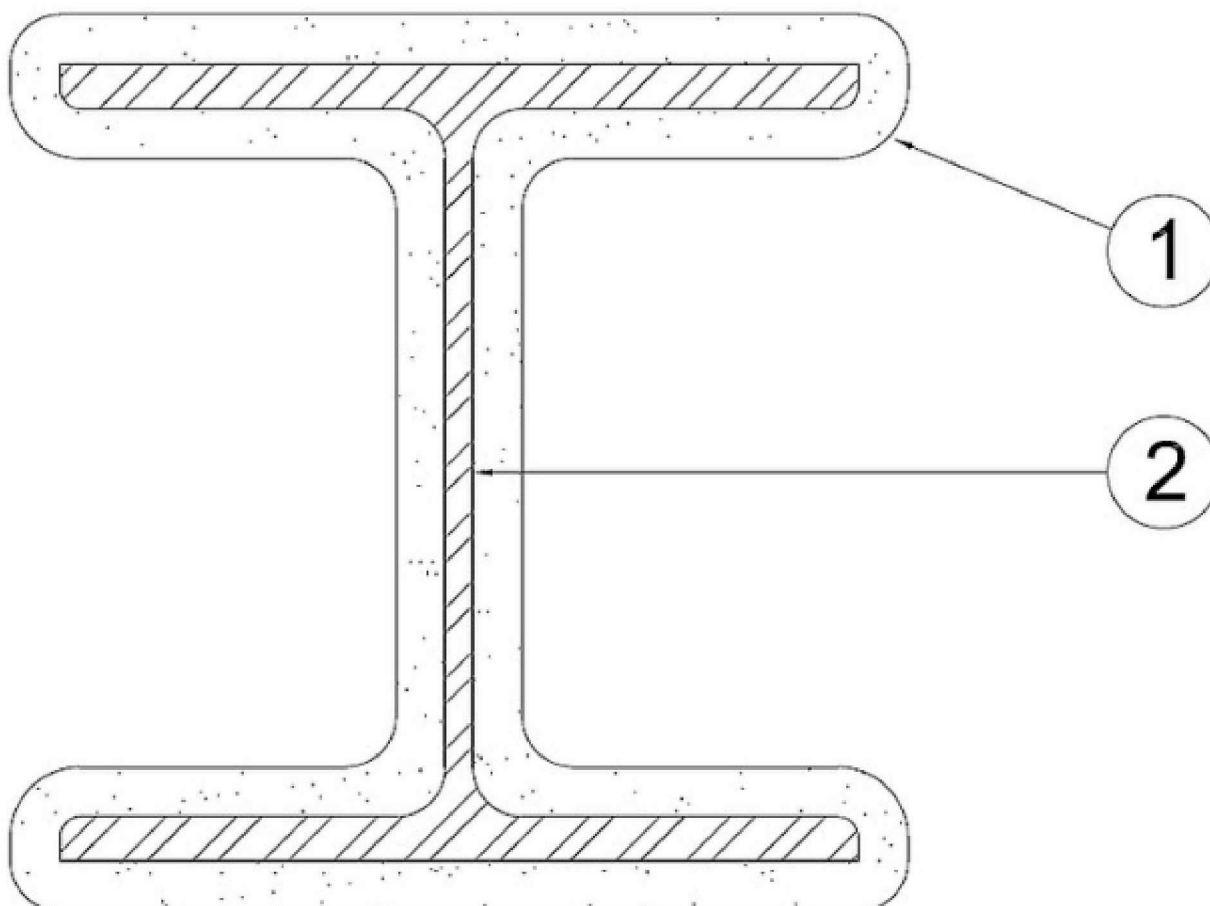
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

#### Design No. X701

May 23, 2016

Ratings — 1, 2, 3 and 4 Hr.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Spray-Applied Fire Resistive Materials\*** — See table below for appropriate thickness. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Types 70P and 7HD. Min avg and min ind density of 40/36 pcf for Type AV650. Min avg and min ind density of 20/45 pcf for Type AV600. Min avg and min ind density of 22/19 pcf respectively for Types Z-106 and Z106/HY. Min avg and min ind density of 40/36 pcf for Type Z-146. For method of density determination, refer to Design Information Section, preceding these designs.

Rating Hr	Min Thkns In.
4	2-1/2
3	1-11/16
2	1-1/8
1-1/2	7/8
1	11/16

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to columns/flange tips are reduced to one-half that shown in the table below:

Rating Hr	Min Thkns In.
4	2-7/8
3	2-1/16
2	1-3/8
1-1/2	1-1/16
1	13/16

ARABIAN VERMICULITE INDUSTRIES — Types AV650 and AV600 evaluated for exterior exposure.

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

PYROK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, SEF, SGP, SHD, 7GP, 7HD, BEF, 8GP, 8MD, 9EF, 9GP, 9MD.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6s, Monokote Acoustic 1, RG, Z-106, Z-106/HY and Z-146.

2. **Steel Column** — Minimum size of column, W10x49, with outside dimensions of 10x10 in., a flange thickness of 9/16 in., a web thickness of 5/16 in., and a cross-sectional area of 14.4 sq in.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-05-23

## UL DESIGN NO. U415 CONTINUED

8. **Laminating Adhesive\*** — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D, ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BULZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips** — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grades "B, C, or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead disc compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

10A. **Lead Discs** — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead disc compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-2011, Grades "B, C or D".

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fitted around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-07-14

## UL DESIGN NO. I503

### Design No. I503

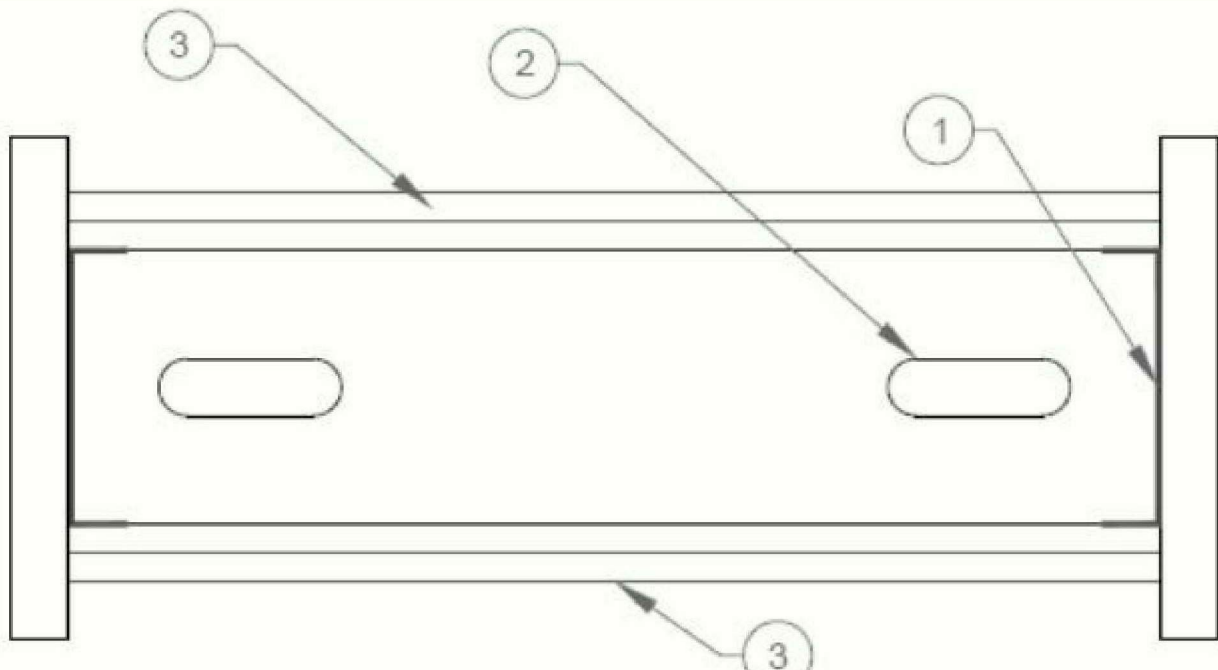
July 23, 2020

#### Ceiling Membrane Rating - 2 Hr.

#### Load Restriction - Limited to the Dead Weight of the Assembly.

# Indicates item is shown for illustrative purposes only as that item may be tested and certified to a standard other than UL 263.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Supporting Structure** — Fire-resistance rated. Suitable point of attachment of Perimeter Channels (Item 2).

2. **Perimeter Channels** — Used to support steel joists at both ends of structure. Min. 6 in. deep with min. 1-3/8 in. legs and formed from min. No. 16 MSG galv. steel (0.053 in. thick bare metal thickness). Perimeter channels attached to a fire-resistant rated supporting structure (Item 1) with fasteners spaced not greater than 18 in. O.C. at both the top and bottom of the vertical leg. Maximum clear span from vertical leg to vertical leg of the perimeter channels is 8 ft.

2A. **Steel Joists** — Min. 6 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 16 MSG galv. steel (0.053 in. thick bare metal thickness). Studs to be cut 1/2 in. to 3/4 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. O.C. at each end of the stud, the un-faced side shall be secured to the perimeter channel with one 1/2 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall.

3. **Gypsum Board\*** — Two layers of nom. 5/8 in. thick, 46 to 54 in. wide, gypsum board installed with long dimension perpendicular to the steel studs. Base layer installed with end joints in adjacent rows staggered min. 64 in. Boards secured to studs and perimeter channels with 1-1/4 in. long Type S steel screws spaced max. 12 in. O.C. at perimeter and max. 16 in. O.C. in the field. Face layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 1-7/8 in. long Type S steel screws spaced max. 12 in. O.C. at perimeter and max. 16 in. O.C. in the field. Face layer joints staggered min. 16 in. from base layer joints. Face layer long edge joints staggered min. 8 in. from base layer joints. **AMERICAN GYPSUM CO** — Type AG-C.

**UNITED STATES GYPSUM CO** — Type C

**USG BORAL DRYWALL SZF LLC** — Type C

4. **Joint Tape and Compound** — Not Shown — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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## UL DESIGN NO. U415 CONTINUED

#### System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 24 in. O.C. and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

**CGC INC** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**UNITED STATES GYPSUM CO** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX.

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — 1/2 in. Type C; 5/8 in. Types C, SCX

**USG MEXICO S A DE C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

#### System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. when installed vertically or 16 in. O.C. when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. O.C. when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. O.C. when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

**CGC INC** — Types C, IP-X2, IPC-AR, WRC

**UNITED STATES GYPSUM CO** — Types C, IP-X2, IPC-AR, WRC

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — Type C

**USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR, WRC

#### System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. when installed vertically or 16 in. O.C. when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. O.C. when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

**CGC INC** — Types C, IP-X2, IPC-AR, WRC

**UNITED STATES GYPSUM CO** — Types C, IP-X2, IPC-AR, WRC

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — Type C

**USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR, WRC

#### System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints staggered over studs and staggered min 24 in. otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. O.C. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. O.C. Third layer applied vertically over the furring channels (Item 2C) with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. O.C. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. O.C. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

**CGC INC** — Types IP-X3 or ULTRACODE

**UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE

#### Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

#### System A With Type ULIX Gypsum Boards

Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ12)** Categories for names of Classified companies.

#### Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

**ROXUL INC** — Type AFB

**THERMAFIBER INC** — Type SAFB

7. **Cementitious Backer Units\*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. O.C. and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

**UNITED STATES GYPSUM CO** — Type DCB

base layer, for direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. O.C. at perimeter and 12 in. O.C. in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

**MAYCO INDUSTRIES INC** — Type X-Ray Shielded Gypsum

4D. **Gypsum Board\*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. O.C. at perimeter and 12 in. O.C. in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

**RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound** — (Not Shown)

#### Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

#### 6. Batts and Blankets\*

#### Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

#### System A With Type ULIX Gypsum Boards

Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ12)** Categories for names of Classified companies.

#### Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

**ROXUL INC** — Type AFB

**THERMAFIBER INC** — Type SAFB

7. **Cementitious Backer Units\*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. O.C. and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

**UNITED STATES GYPSUM CO** — Type DCB

## UL DESIGN NO. U415 CONTINUED

#### 4. Gypsum Board\*

#### System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in. O.C. when installed horizontally. Horizontal joints need not be backed by steel framing.

**CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, WRC, WRX, USGX, WRC, WRX. When ULIX is used insulation, Item 6, **Batts and Blankets\*** is required and minimum stud depth is 4 in.

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — Types C, SCX

**USG MEXICO S A DE C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

#### System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. when installed vertically or 16 in. O.C. when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. O.C. when installed vertically and staggered 12 in. from base layer screws or 8 in. O.C. when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

**CGC INC** — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**UNITED STATES GYPSUM CO** — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — 1/2 in. Type C; 5/8 in. Types C, SCX

**USG MEXICO S A DE C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

#### System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. O.C. along vertical edges and 12 in. O.C. in the field when installed vertically or 8 in. O.C. along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

**CGC INC** — Types IP-X3 or ULTRACODE

**UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — Type ULTRACODE

**USG MEXICO S A DE C V** — Types IP-X3 or ULTRACODE

#### System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. O.C. when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

**CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

**UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX.

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — Types C, SCX

**USG MEXICO S A DE C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

#### System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. O.C. when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

**CGC INC** — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX







UL DESIGN NO. HW-D-1001

System No. HW-D-1001

October 21, 2015

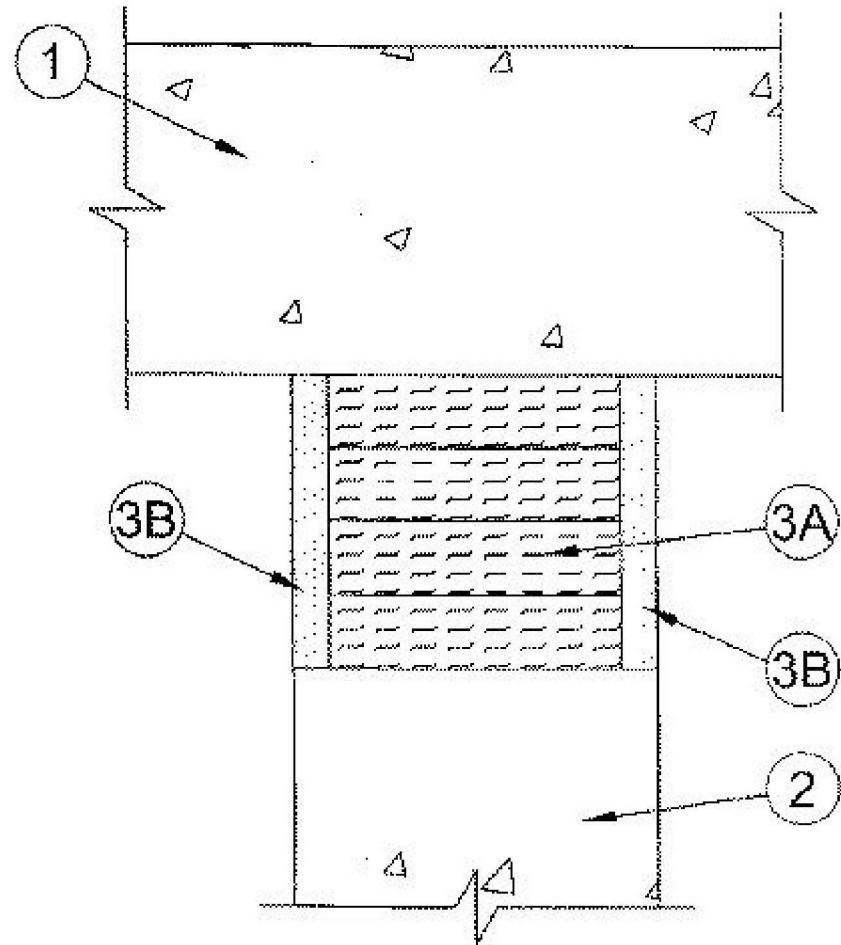
Assembly Ratings — 1, 2 & 3 Hr (See Item 1)

L Rating At Ambient — Less Than 1 CFM/LIN Ft

L Rating At 400 F — Less Than 1 CFM/LIN Ft

Nominal Joint Width — 4 In.

Class II Movement Capabilities — 25% Compression Or Extension



1. **Floor Assembly** — Lightweight or normal weight reinforced (100-150 pcf or 1600-2400 kg/m<sup>3</sup> ) structural concrete. The hourly rating of the joint system is dependent upon the min thickness of the floor as tabulated below:

Min Thickness of Floor, In (mm)	Assembly Rating, Hr
2-1/2 (64)	1
3-1/4 (83)	2
4-1/2 (114)	3

2. **Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup> ) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System** — Max separation between bottom of floor and top of wall (at time of installation of joint system) is 4 in. (102 mm). The joint system is designed to accommodate

max 25 percent compression or extension from its installed width. The joint system shall consist of the following:

A. **Forming Material\*** — Min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation installed in joint opening as a permanent form. Pieces of batt cut to min width of 4 in. (102 mm) and installed edge-first into joint opening, parallel with joint direction, such that batt sections are compressed min 50 percent in thickness and such that the compressed batt sections are recessed from each surface of the wall to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly butted with butted seams spaced min 16 in. (406 mm) apart along the length of the joint.

**INDUSTRIAL INSULATION GROUP L L C** — MinWool-1200 Saffing

**JOHNS MANVILLE** — Safing

**ROCK WOOL MANUFACTURING CO** — Delta Board

**ROCKWOOL MALAYSIA SDN BHD** — SAFE

**ROXUL INC** — SAFE

**THERMAFIBER INC** — Type SAF

B. **Fill, Void or Cavity Material\*** — Min 1/2 in. (13 mm) thickness of fill material installed within joint on each side of the wall, flush with each surface of wall.

**SPECIFIED TECHNOLOGIES INC** — Pensil 300 Sealant or SpecSeal Series STL300 Sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-10-21



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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA  
IMPROVEMENTS

Project Number

003.7835.000

Description

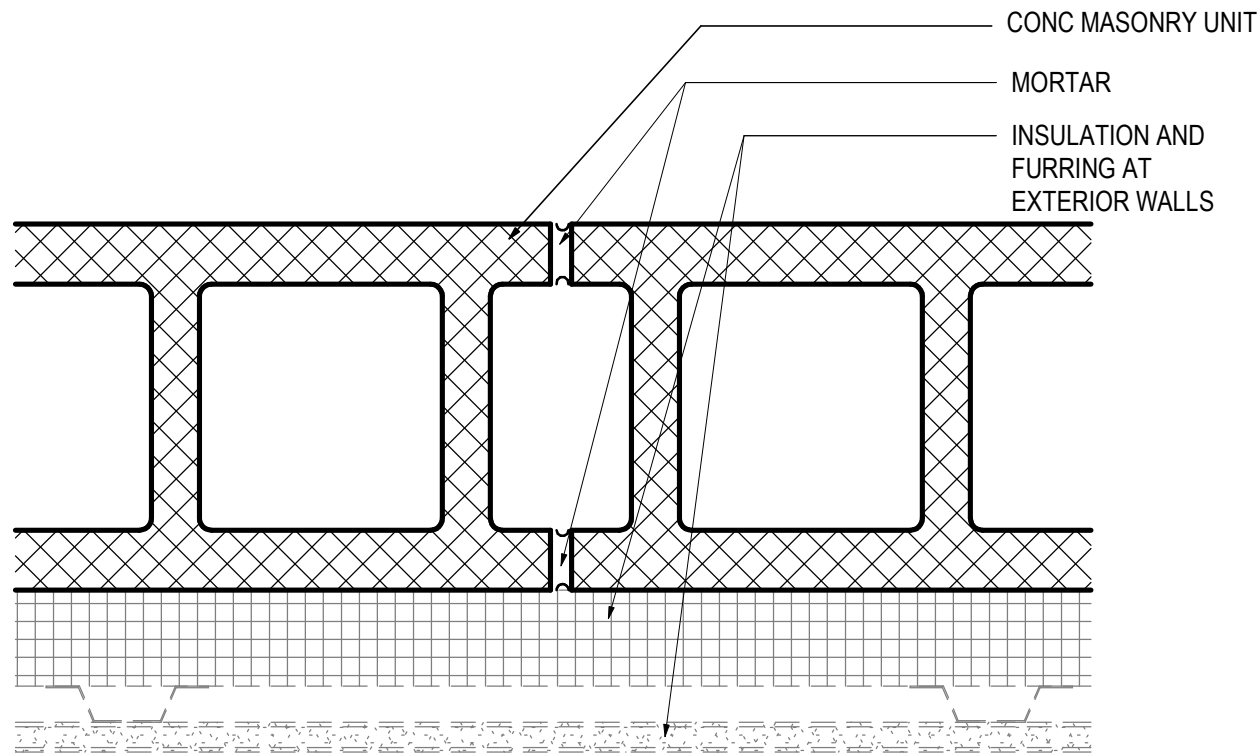
U.L. ASSEMBLIES

Scale

12" = 1'-0"

1A-G4.005

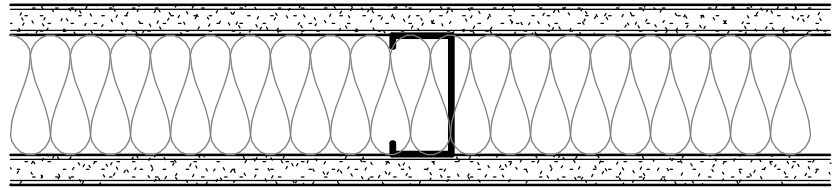




PARTITION TYPE MARK	CMU THK (IN)	DETAILS				FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		TOP	BOT	FIRE RTG	TESTED ASSEMBLY				
MBA	8"	M-T01	M-B01	1	HW-D-1001				
MBB	8"	M-T02	M-B01						

## 05 M SERIES PARTITION TYPES

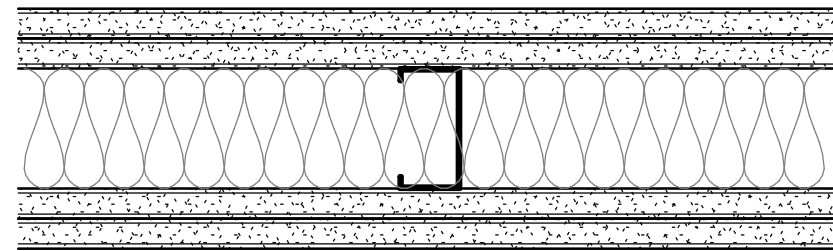
SCALE: 3" = 1'-0"



PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
A3A	.0312	3 5/8"	16 OC	A-T01	A-B01					
A3B	.0312	3 5/8"	16 OC	A-T01	A-B01	3 5/8"			60	
A6C	.0312	6"	16 OC	A-T01	A-B01	6"	1	U419	60	

## 01 A SERIES PARTITION TYPES

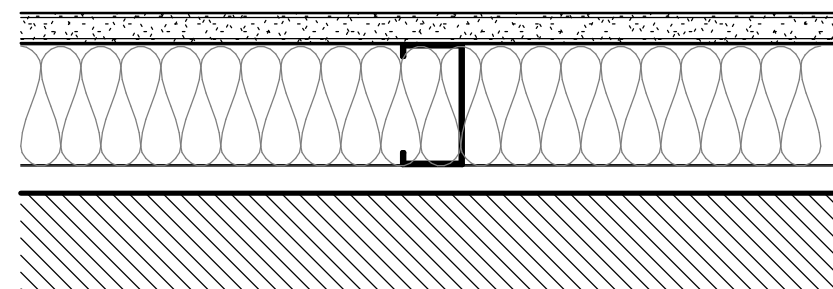
SCALE: 3" = 1'-0"



PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
B6C	.0312	6"	16 OC	B-T01	B-B02		1	U419		

## 02 B SERIES PARTITION TYPES

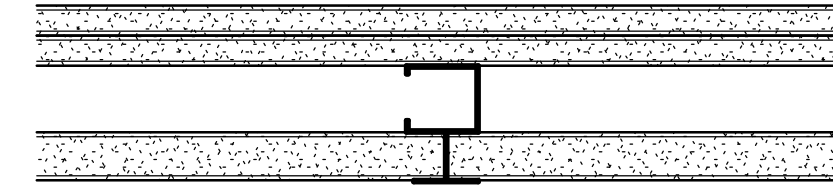
SCALE: 3" = 1'-0"



PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
D3A	.0312	3 5/8"	16 OC	D-T01	D-B01					
D6A	.0312	6"	16 OC	D-T01	D-B01					

## 03 D SERIES PARTITION TYPES

SCALE: 3" = 1'-0"



PARTITION TYPE MARK	THK (IN)	FRAMING		DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
		DEPTH	SPACING	TOP	BOT					
J4A	.0312	4"	16 OC	J-T02	J-B01		1	U415		

## 04 J SERIES PARTITION TYPES

SCALE: 3" = 1'-0"

## PARTITION NOTES

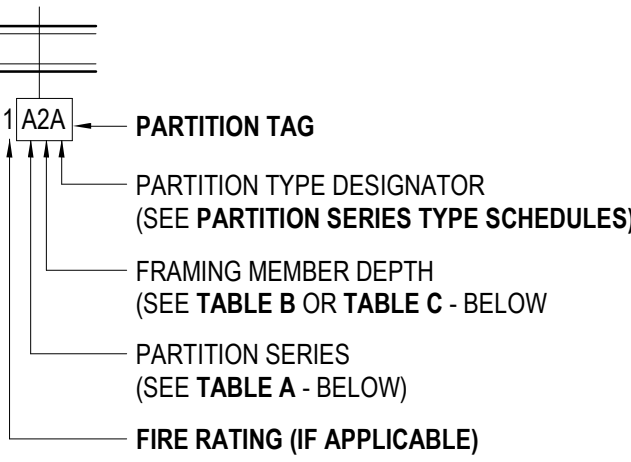


TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBERS	SHEATHING
A	1-LAYER	METAL C-STUD	1-LAYER
B	2-LAYERS	METAL C-STUD	2-LAYERS
C	1-LAYER	METAL C-STUD	2-LAYERS
D	1-LAYER	METAL C-STUD	NONE
E	2-LAYERS	METAL C-STUD	NONE
F	1-LAYER	MTL HAT CHANNEL	NONE
G	1-LAYER	NONE	NONE
H	1-LAYER	METAL C-H STUD	NONE
J	2-LAYERS	METAL C-H STUD	LINER PNL
K	1-LAYER	(2) METAL C-STUDS	1-LAYER
L	2-LAYERS	(2) METAL C-STUDS	2-LAYERS
M	NONE	CMU	NONE
N-U	RESERVED FOR FUTURE EXPANSION		
V-Z	CUSTOM	N/A	N/A

TABLE B- FRAMING DEPTH SCHEDULE

TAG NUMBER	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8" FURRING CHANNEL	N/A	N/A
1	1 5/8"	N/A	N/A
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	N/A
4	4"	4"	3 1/2"
6	6"	6"	5 1/2"
8	8"	N/A	7 1/4"
10	10"	N/A	9 1/4"

TABLE C- MASONRY WIDTH SCHEDULE

TAG NUMBER	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

STEEL SHEET THICKNESS FOR STUDS AND RUNNERS

GAUGE 1 MIN. STEEL BASE METAL THICKNESS (UNCOAT)

	INCH	MILS	MM
12	0.1017	97	X
14	0.0713	68	X
16	0.0566	54	1.34
18	0.0451	43	1.09
20	0.0312	30	0.84
22	0.0270	27	0.68
25	0.0179	18	0.45

\*GAUGE 16, 18 USED FOR STRUCTURAL FRAMING; 20, 22, AND 25 USED FOR NON-STRUCTURAL FRAMING

\*USE OF DIMPLED STEEL STUDS ACCEPTABLE PROVIDED CONTRACTOR SUPPLIES DOCUMENTATION PROVING THE EQUIVALENT MINIMUM BASE METAL THICKNESS IS ACHIEVED

### GENERAL NOTES

GN-01. PARTITION TYPES ARE NOT SEQUENTIAL.

GN-02. ALL PARTITION SHEATHING TO BESIB® GYPSUM BOARD UNLESS OTHERWISE NOTED.

GN-03. REFER TO G5.001 SERIES FOR TOP OF PARTITION AND G5.001 SERIES FOR BOTTOM OF PARTITION CONDITIONS LISTED IN PARTITION SCHEDULE

GN-04. ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.

GN-05. PROVIDE BLOCKING IN PARTITIONS FOR ARTWORK HANGING AS INDICATED. SEE CONSTRUCTION PLANS AND/OR INTERIOR ELEVATIONS FOR LOCATIONS.

GN-06. FOR INTERIOR FRAMING LIMITING HEIGHTS REFER TO SSMA TABLES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS

GN-07. CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF SLAB INFORMATION

GN-08. ALL STUD CAVITIES TO HAVE ACOUSTICAL BATT INSULATION AS MINIMUM. WALLS NOT IDENTIFIED IN SCHEDULE AS HAVING INSULATION TO HAVE MINIMUM THICKNESS OF ACOUSTICAL INSULATION (1 5/8" STUD = 1" INSULATION; 3 5/8" STUD = 3 1/2" INSULATION; 6" STUD = 5 1/2" INSULATION). REFER TO SCHEDULE TO PROVIDE INSULATION CRITERIA EXCEEDING THIS MINIMUM.

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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name 05.19.2021

SSRC | BASE AREA IMPROVEMENTS

Project Number

003.7835.000

Description

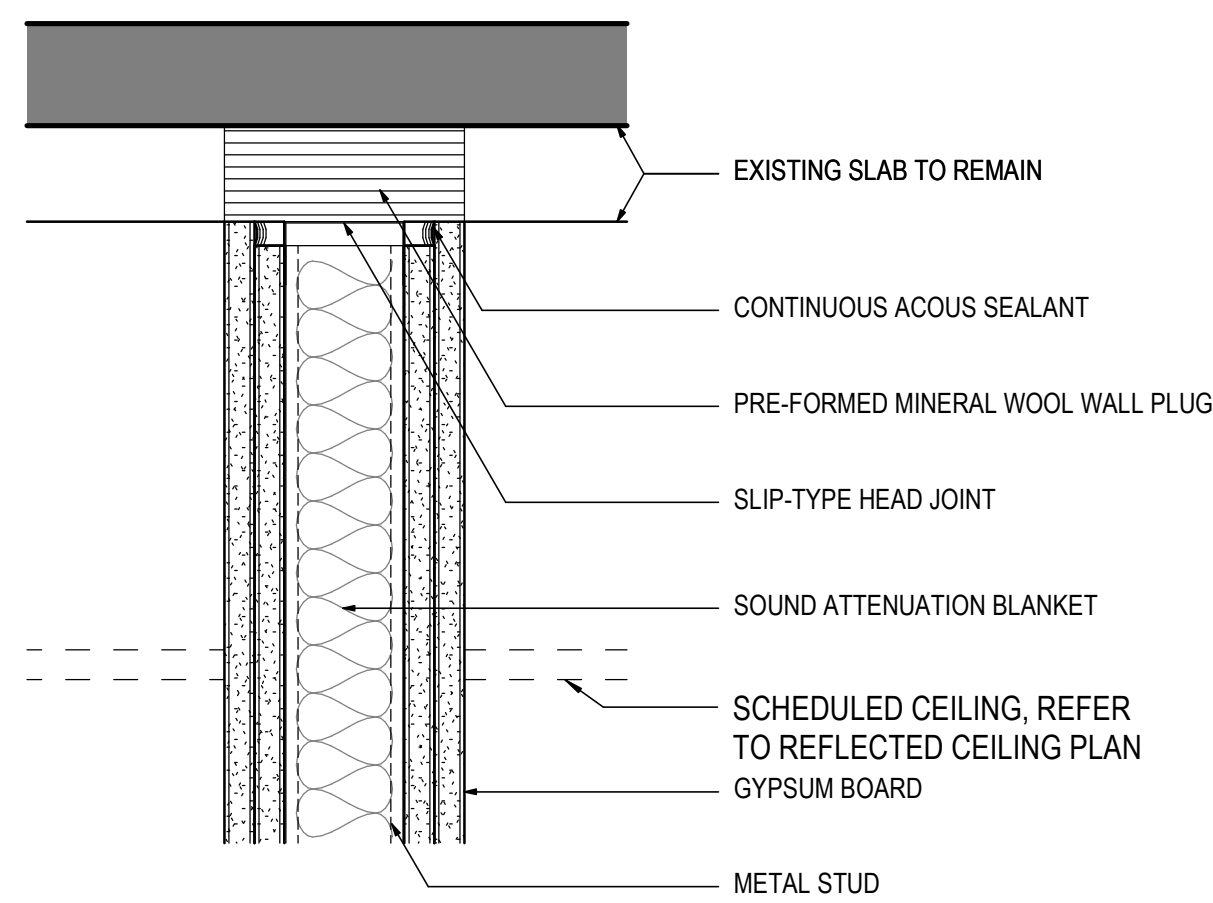
PARTITION SCHEDULES

Scale

3" = 1'-0"

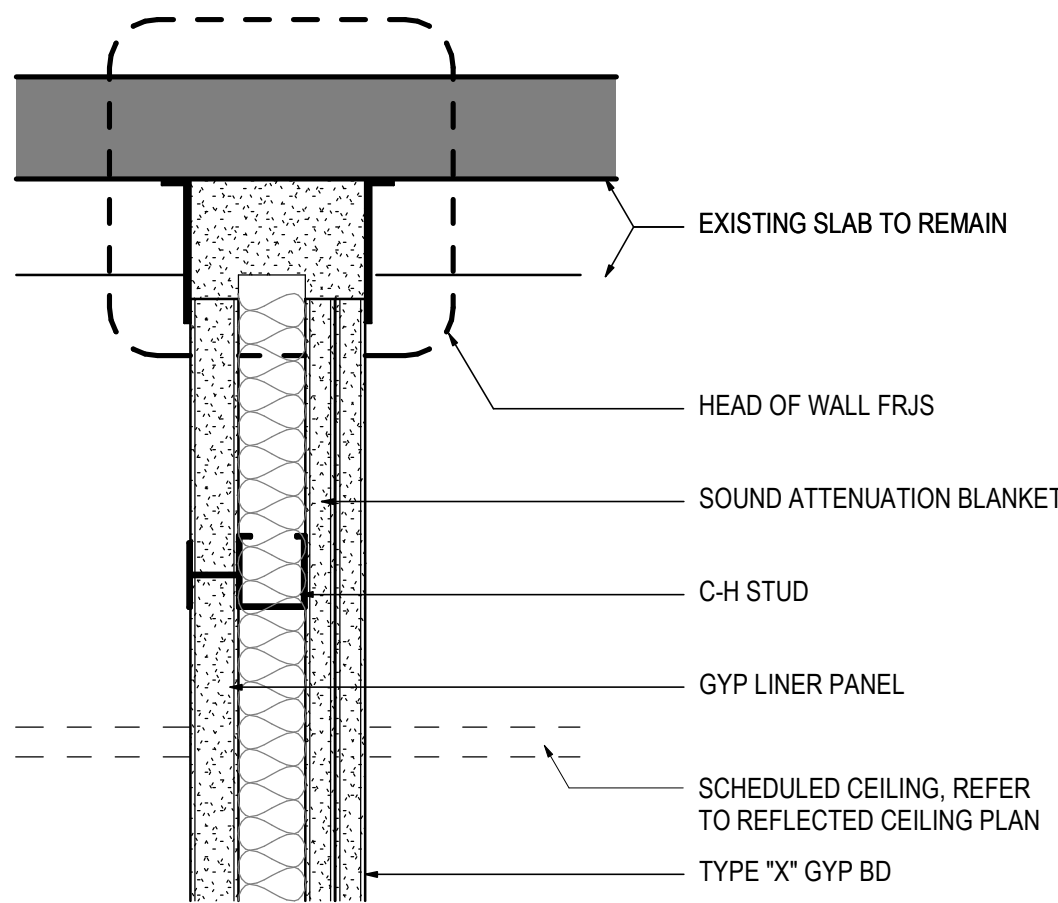
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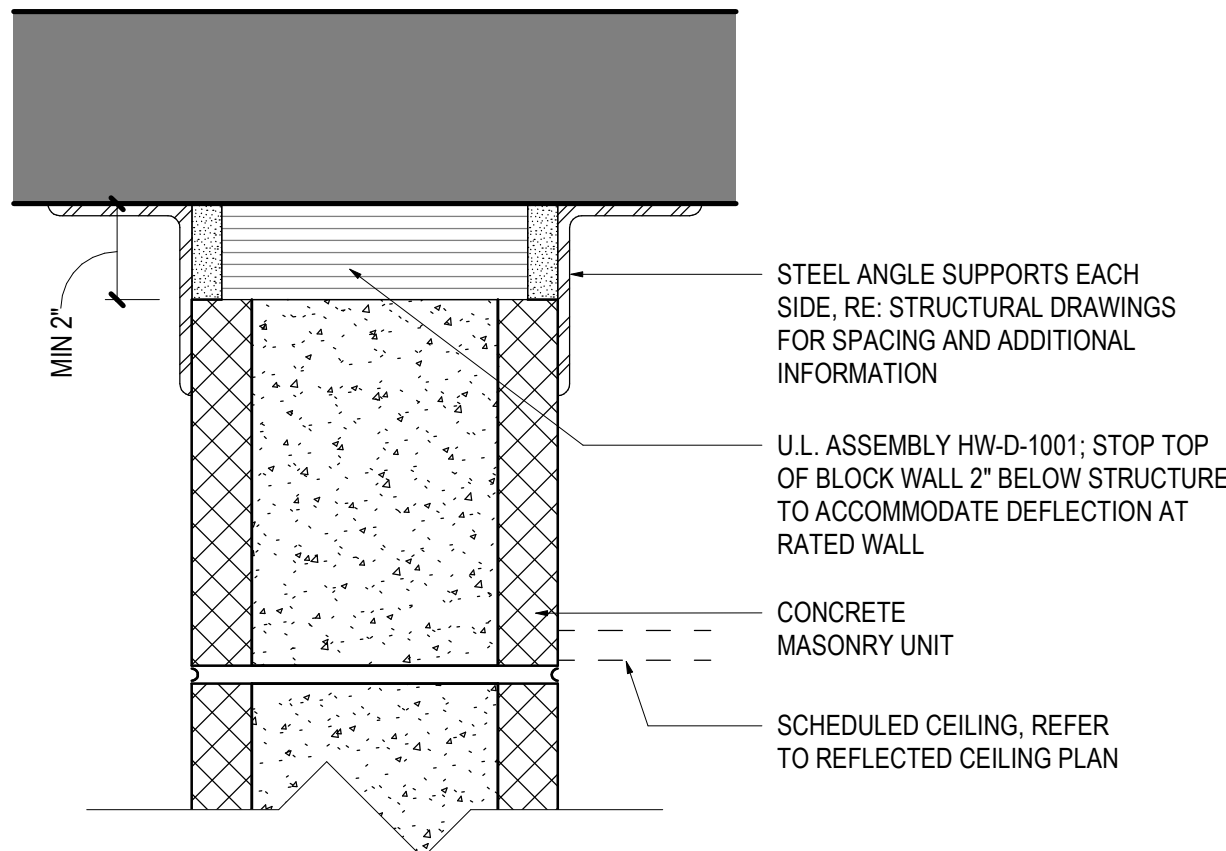
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(2-HOUR RATED-BASIS OF DESIGN UL SYSTEM NO. U419)

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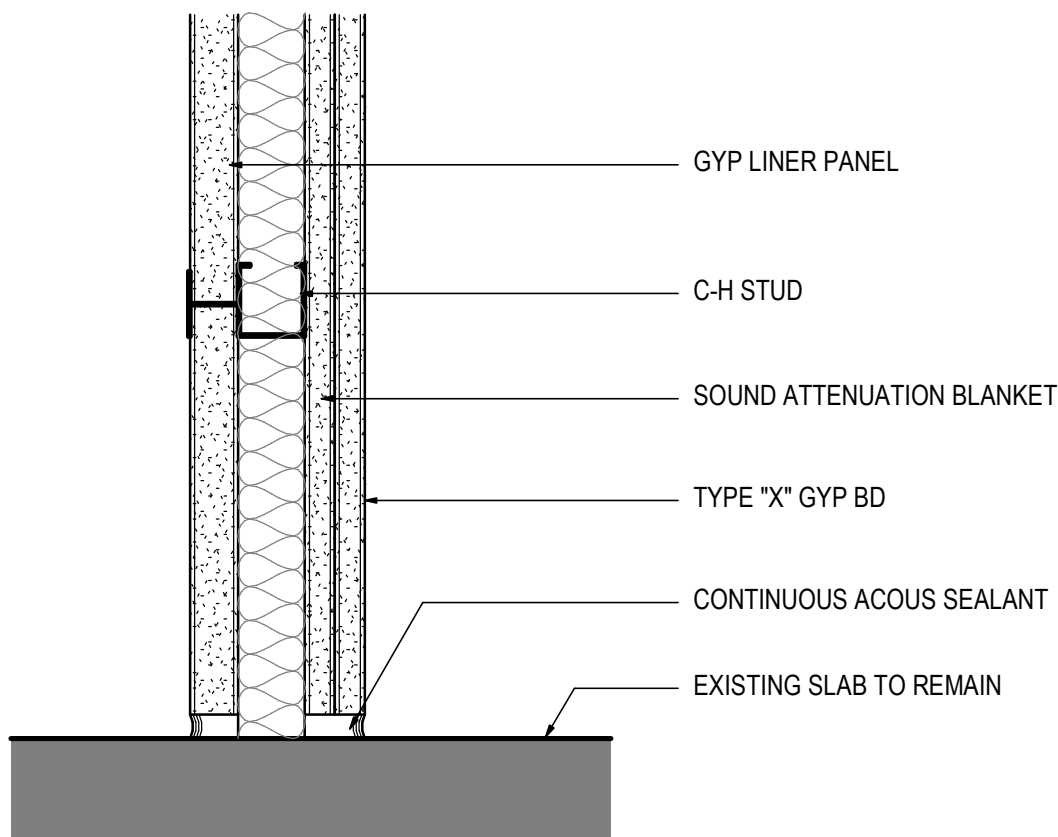


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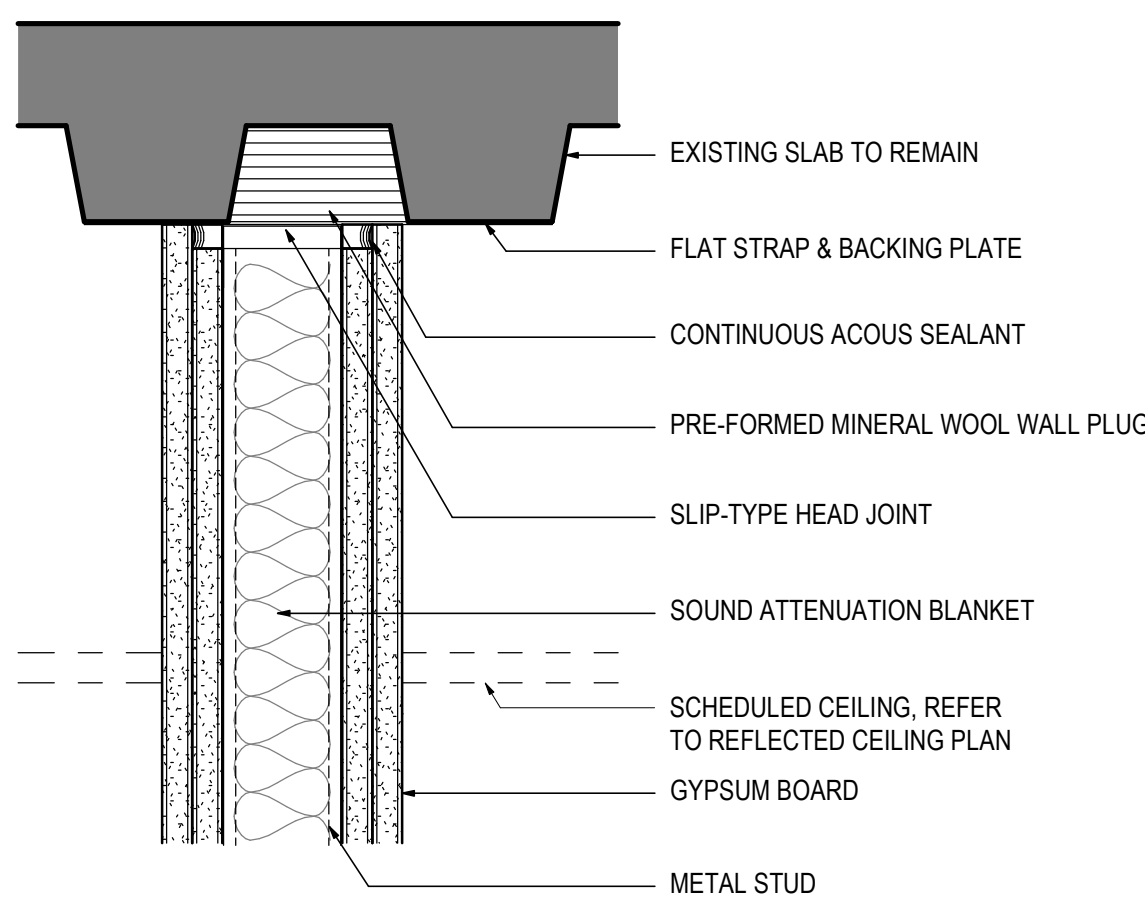


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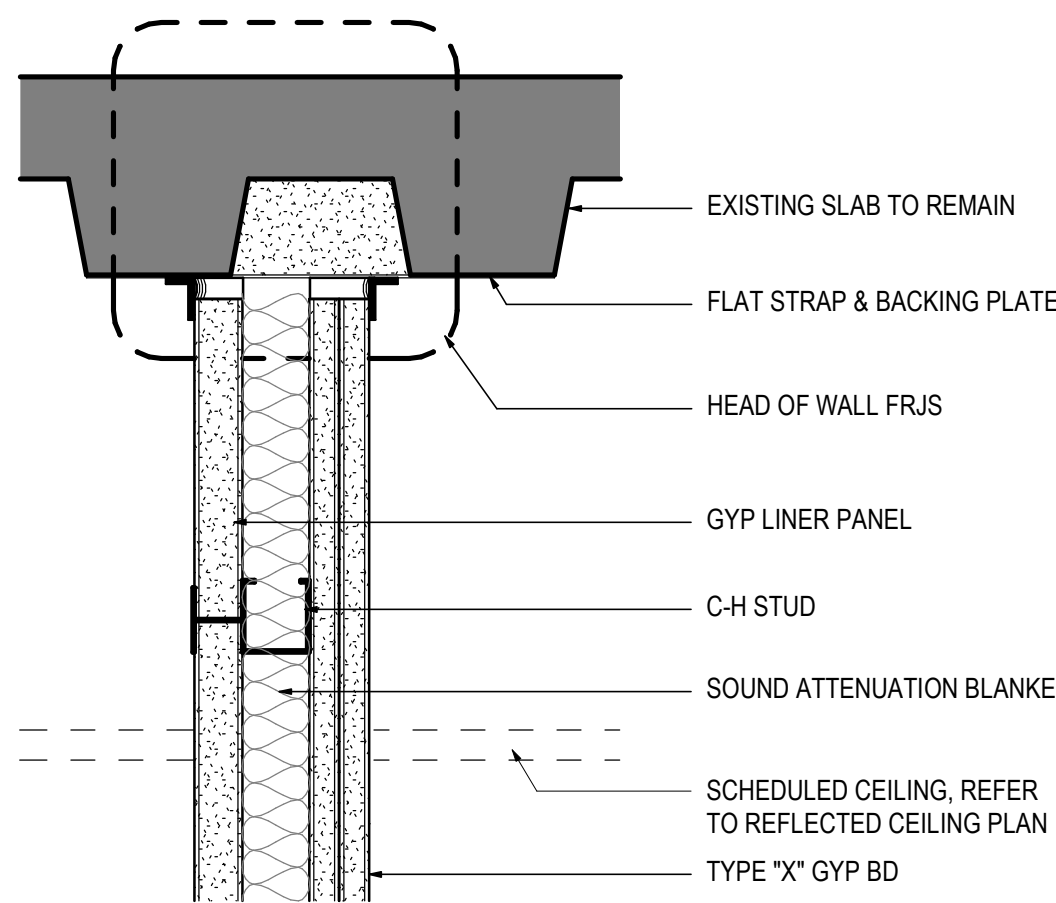


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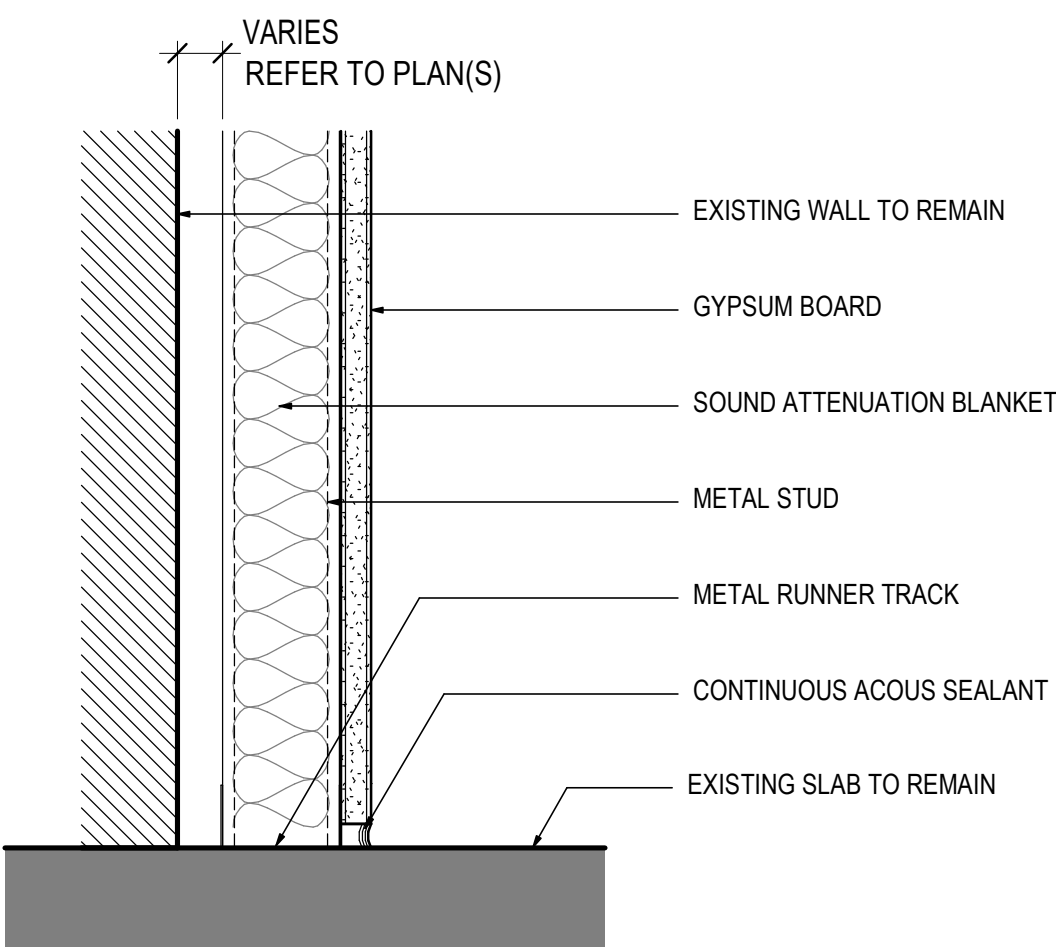


PARALLEL TO RIBBING

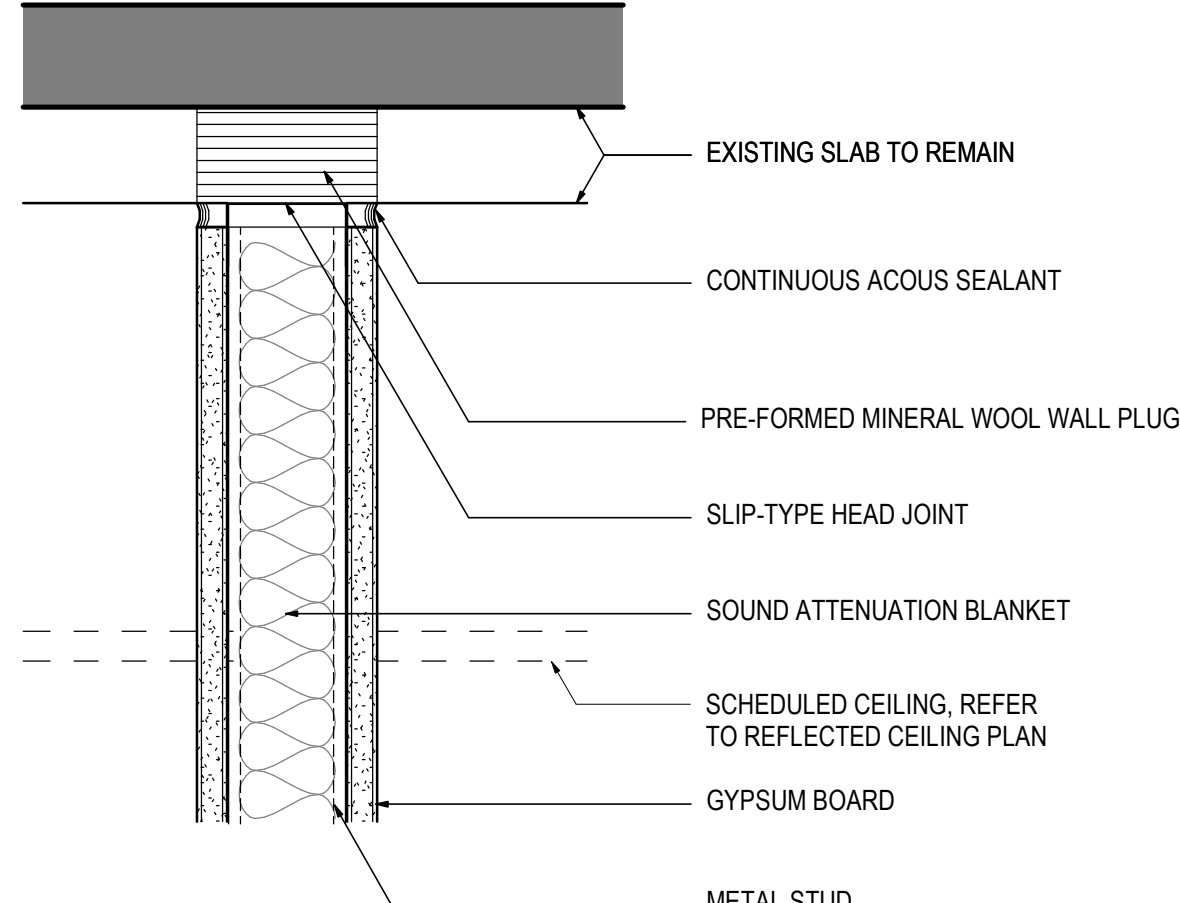


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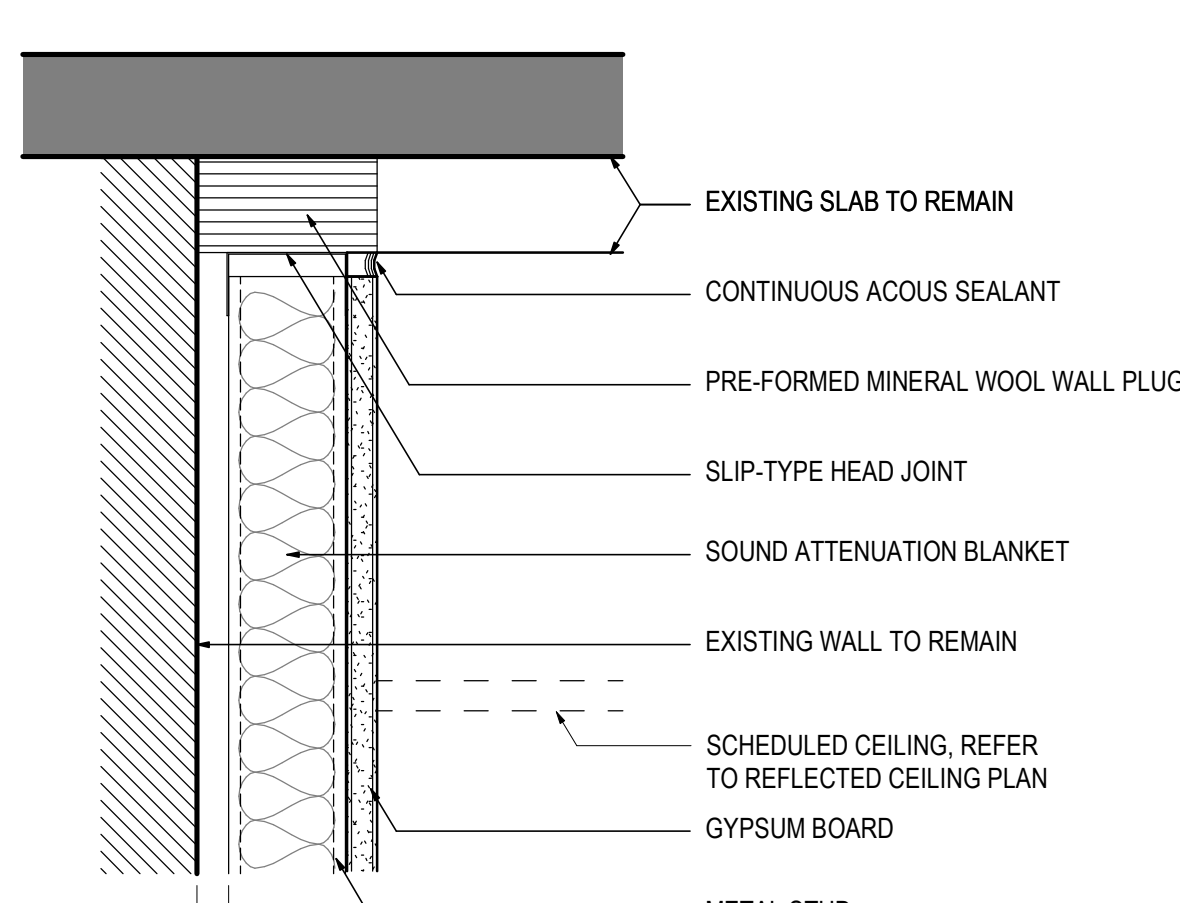
11 M-T01  
SCALE: 3" = 1'-0"



12 D-B01  
SCALE: 3" = 1'-0"

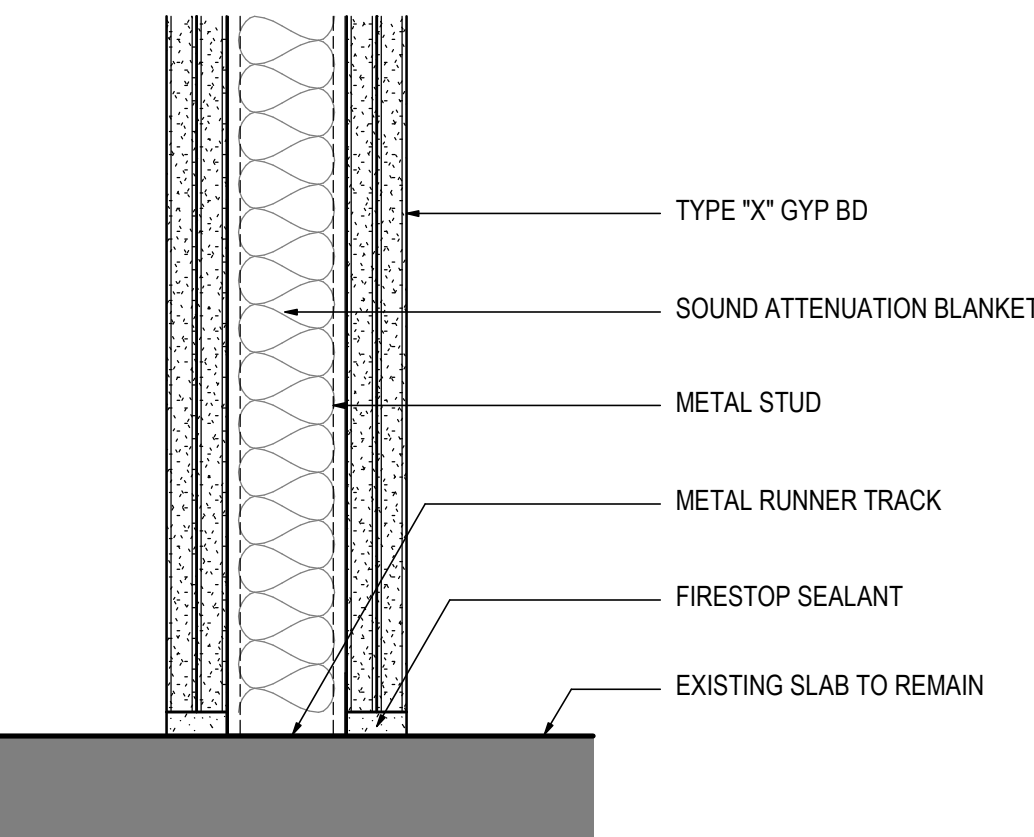


PERPENDICULAR TO RIBBING



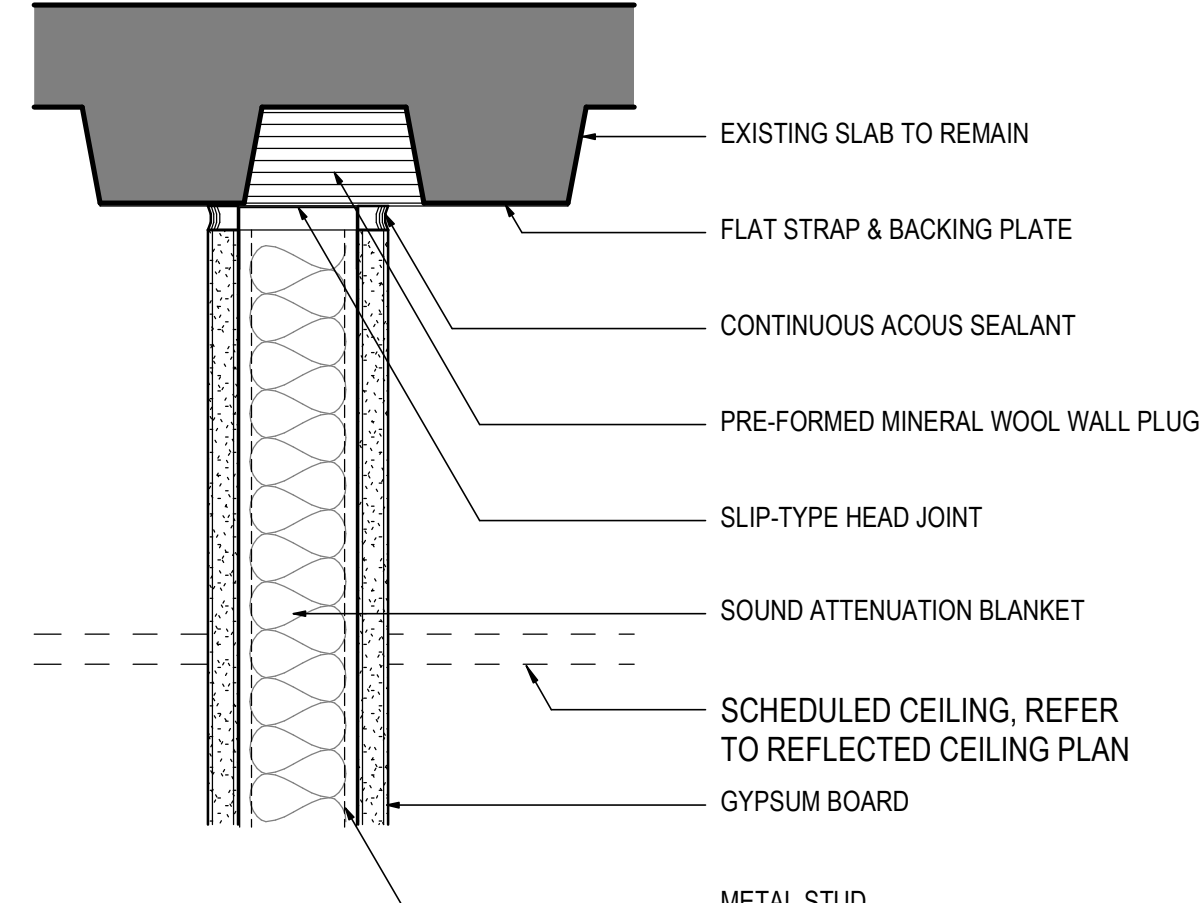
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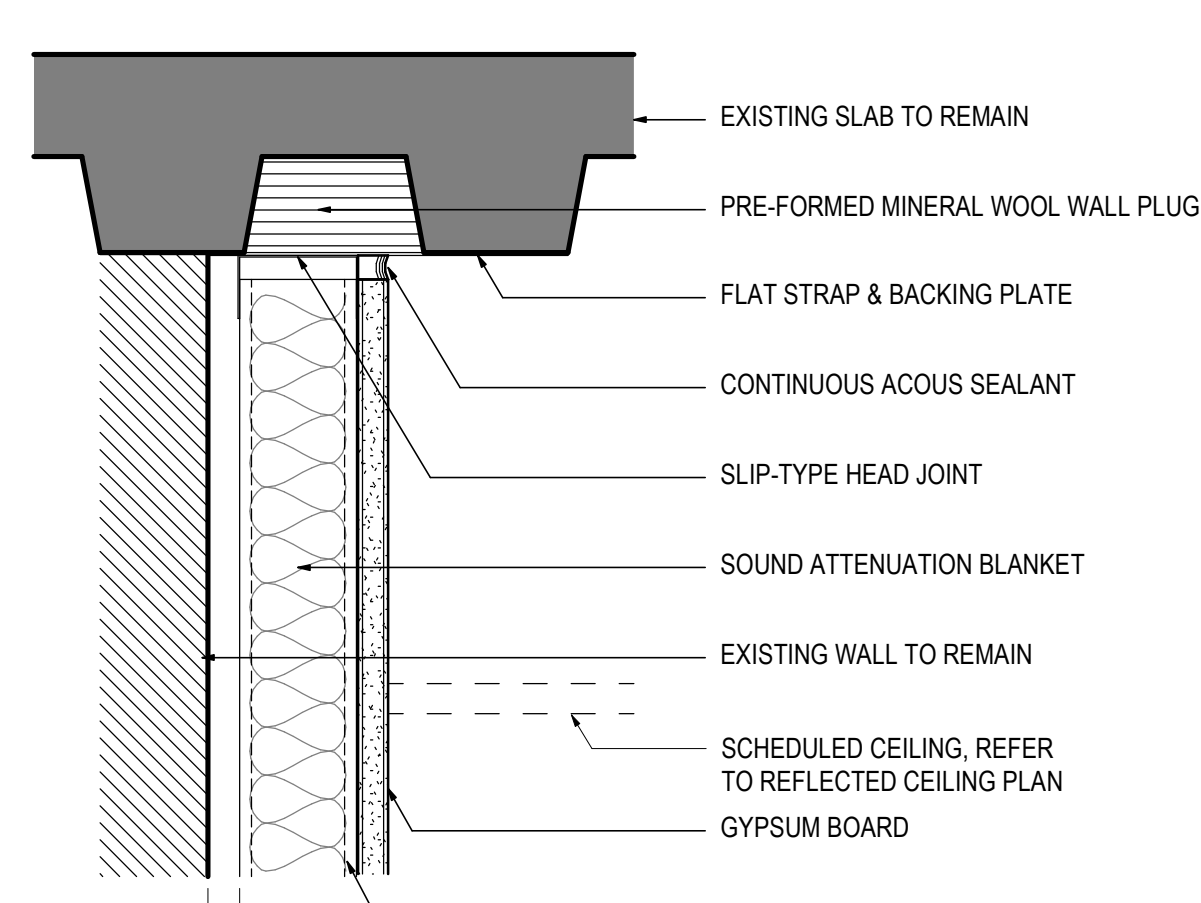


(2-HOUR RATED-BASIS OF DESIGN UL SYSTEM NO. U419)

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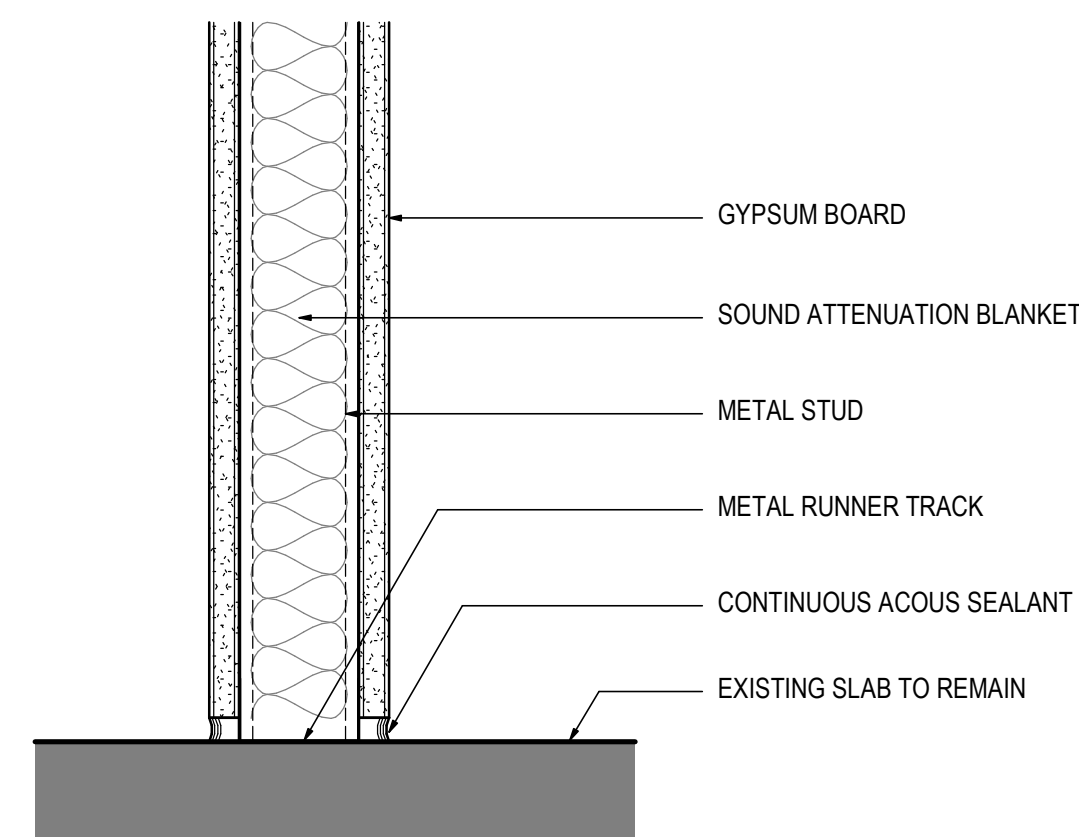
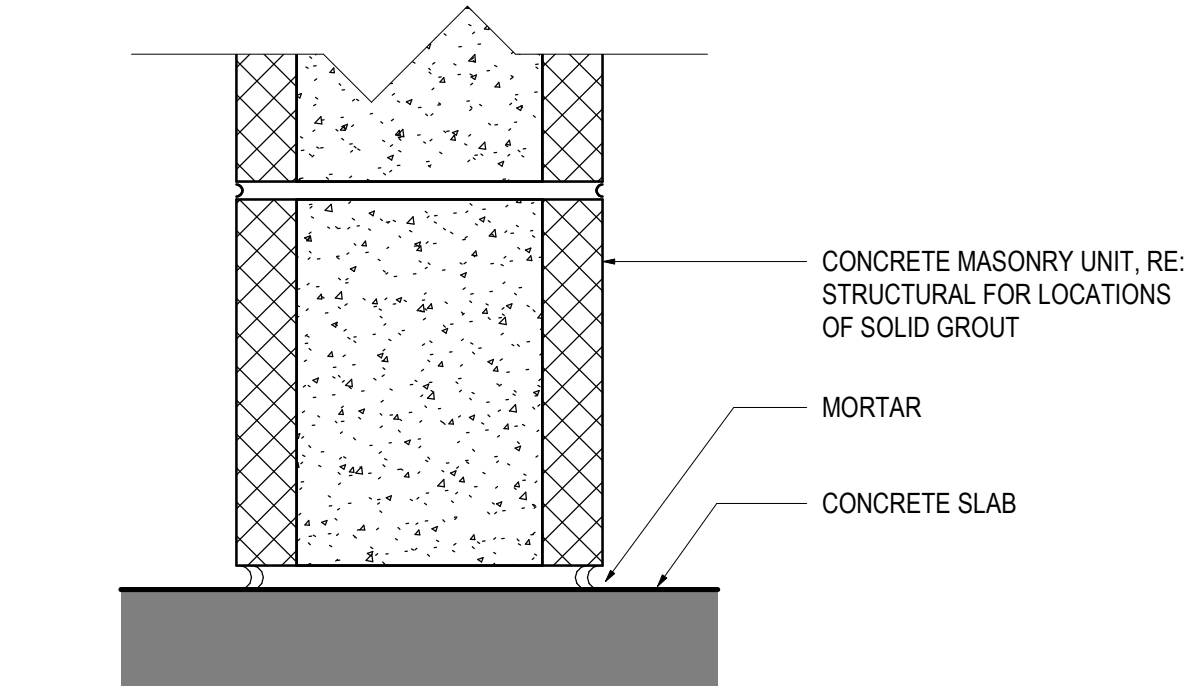


PARALLEL TO RIBBING



PARALLEL TO RIBBING

03 M-B01  
SCALE: 3" = 1'-0"



04 A-B01  
SCALE: 3" = 1'-0"

PARTITION NOTES

TOP OF PARTITION DETAILS	
TYPE	DESCRIPTION
T01	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB
T02	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB (FIRE RATED)
T03	TOP OF PARTITION STUD AT UNDERSIDE OF METAL DECK SLAB AND SHEATHING 6" ABOVE SCHEDULED FINISHED CEILING
T04	TOP OF PARTITION AT UNDERSIDE OF CONCRETE SLAB (NON-RATED)
T05	TOP OF PARTITION AT UNDERSIDE OF CONCRETE SLAB (FIRE-RATED)
T06	TOP OF PARTITION STUD AT UNDERSIDE OF CONCRETE SLAB AND SHEATHING 6" ABOVE SCHEDULED FINISHED CEILING
T07	TOP OF PARTITION AT UNDERSIDE OF ACOUSTIC TILE/PANEL CEILING
T08	TOP OF PARTITION AT UNDERSIDE OF GYPSUM BOARD CEILING
T09	TOP OF PARTITION (LOW PARTITION) WITH WOOD CAP
T10	TOP OF PARTITION (LOW PARTITION) GYPSUM BOARD CAP
T11	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB (NON-RATED) NO CEILING
T12	TOP OF PARTITION AT UNDERSIDE OF METAL DECK SLAB (FIRE-RATED) NO CEILING
T13-T20	RESERVED FOR FUTURE EXPANSION
T21	CUSTOM
BOTTOM OF PARTITION DETAILS	
TYPE	DESCRIPTION
B01	BOTTOM OF PARTITION AT SLAB
B02	BOTTOM OF PARTITION AT SLAB (FIRE RATED)
B03	BOTTOM OF PARTITION AT CURB
B04	BOTTOM OF PARTITION AT CURB (FIRE RATED)
B05	BOTTOM OF PARTITION AT CURB OFFSET
B06	BOTTOM OF PARTITION AT CURB OFFSET (FIRE RATED)
B07	BOTTOM OF PARTITION AT RAISED FLR
B08-B15	RESERVED FOR FUTURE EXPANSION
B16	CUSTOM

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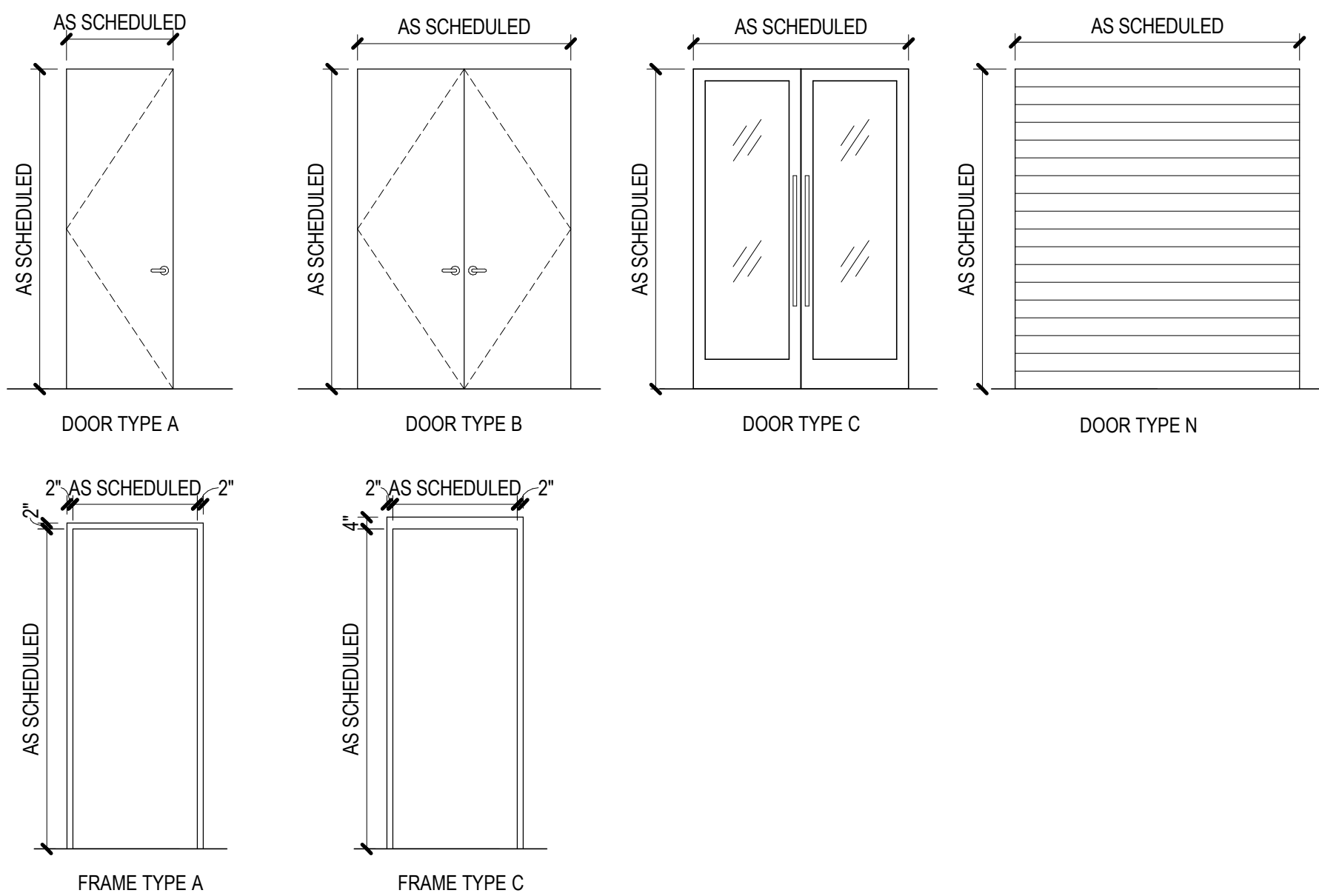
Project Number  
003.7835.000

Description  
PARTITION DETAILS

Scale  
3" = 1'-0"

1A-G5.002



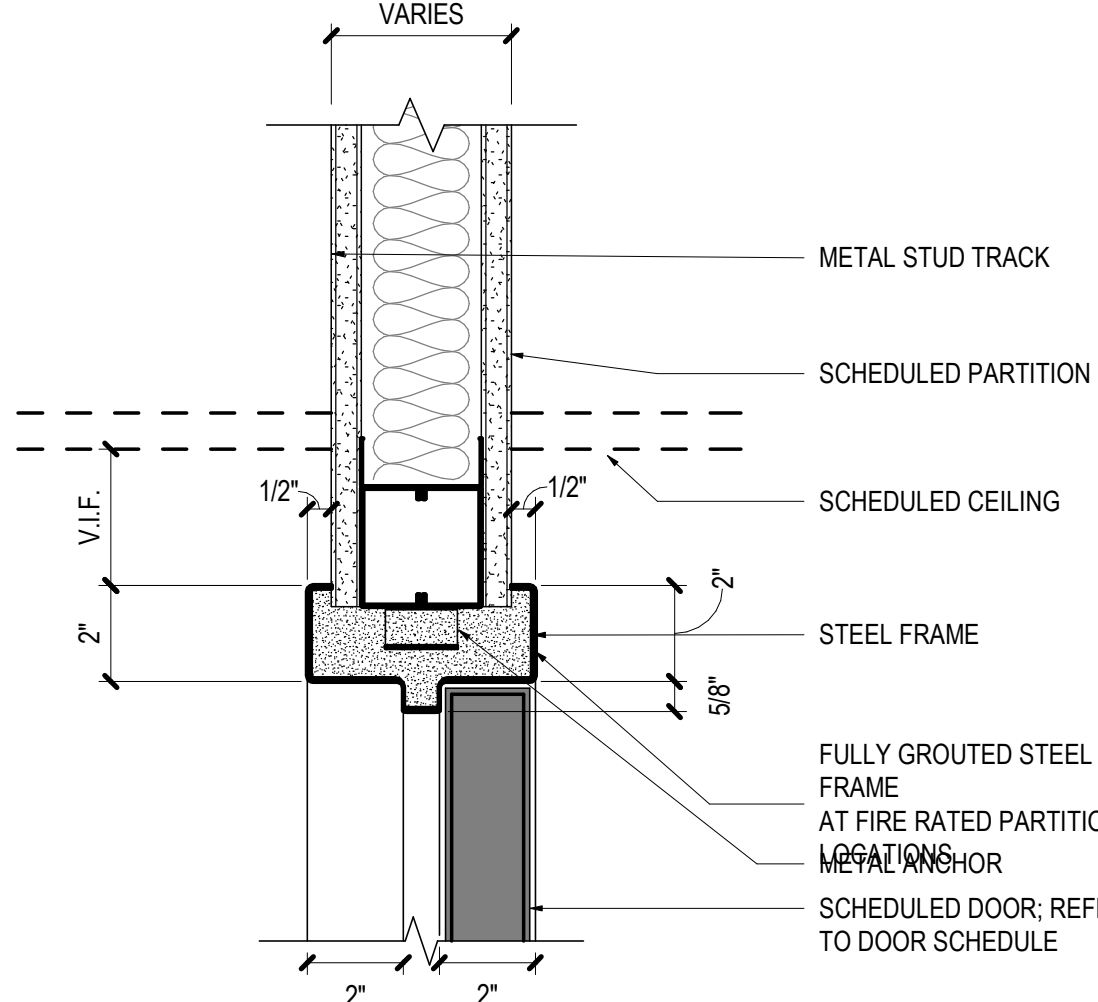


## 13 DOOR & FRAME TYPES

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

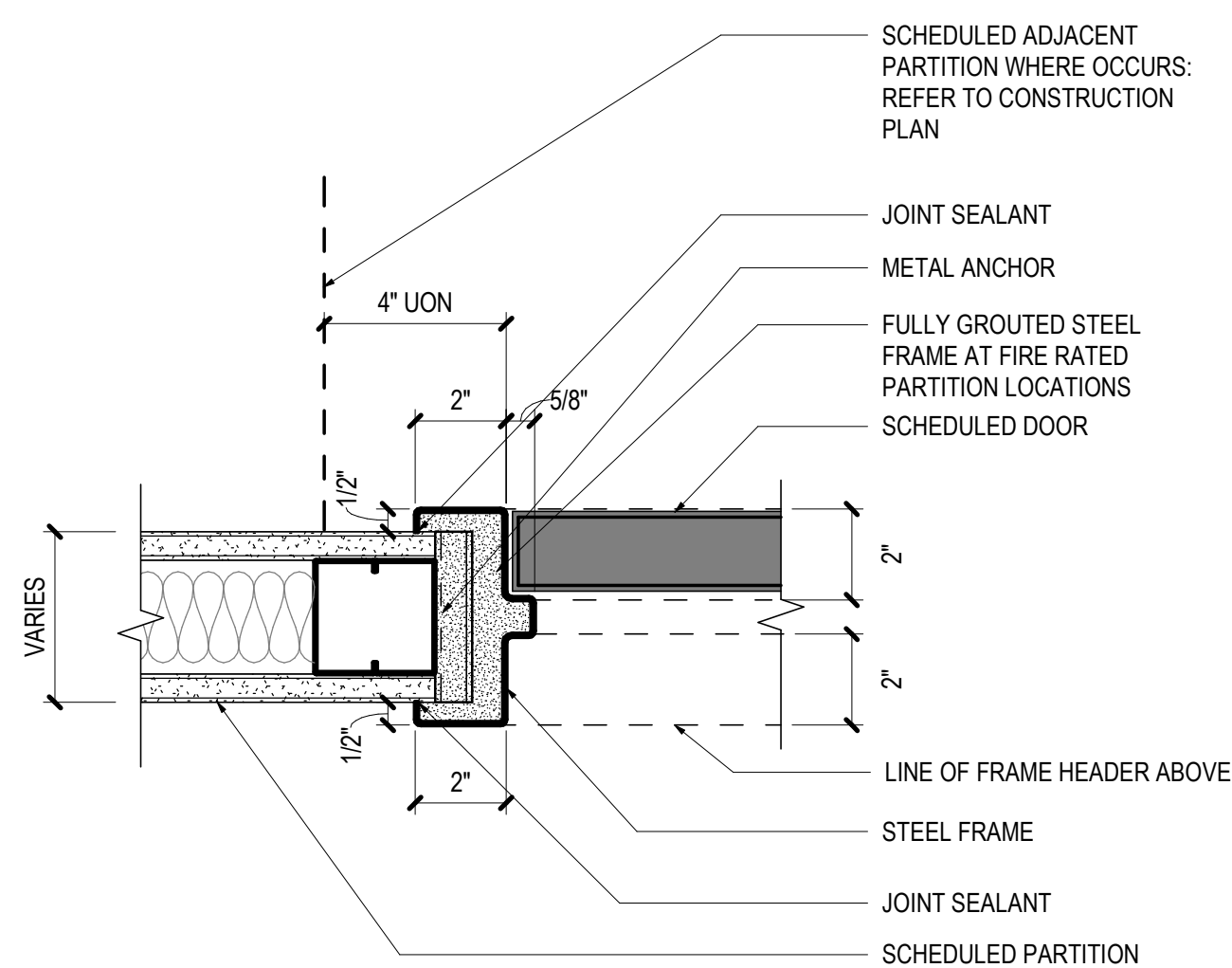
## DOOR SCHEDULE

DOOR ASSEMBLY						FRAME ASSEMBLY					ASSEMBLY RATING			HARDWARE SET	REMARKS		
NUMBER	LOCATION	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	MATERIAL	FINISH	FIRE RATING			TEMP RISE	SMOKE LABEL
P.001A	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5.100		PT2				8	
P.001B	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5.100		PT2				8	
P.001C	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5.100		PT2				8	
P.001D	VESTIBULE	C	6'-0"	8'-0"		AL/GL	PT2			08/1A-A5.100		PT2				8	
P.002A	MAIN ELEC	D	3'-0"	7'-0"	1 3/4"	HMFR	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HR/FR	PT	90 MIN			38	
P.002B	MAIN ELEC	D	3'-0"	7'-0"	1 3/4"	HMFR	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HR/FR	PT					38A
P.003	WATER ENTRY	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				41	
P.004A	LOADING/TRASH	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				47	
P.004B	FOOD STORAGE	N	10'-0"	10'-0"	2"	AL	PT		08/1A-G6.002							33	
P.004C	LOADING/TRASH	N	8'-0"	8'-0"	2"	AL	PT		08/1A-G6.002							33	
P.004D	LOADING/TRASH	N	12'-0"	8'-6"	2"	AL	PT		08/1A-G6.002							33	
P.004E	LOADING/TRASH	D	3'-0"	7'-0"	1 3/4"	HMFR	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HR/FR	PT	90 MIN			48	
P.005A	MECHANICAL/ELEC PLANT	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT					38
P.005B	MECHANICAL/ELEC PLANT	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				38	
P.005C	MECHANICAL/ELEC PLANT	N	10'-0"	10'-0"	2"	AL	PT		08/1A-G6.002							33	
P.006	PLAZA DISHWASHING	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				39	
P.007	ELEC	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				40	
P.008	ERV2	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				41	
P.010	STAIR	D	3'-0"	7'-0"	1 3/4"	HMFR	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HR/FR	PT	90 MIN			42	
P.011A	CORRIDOR	B	6'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT					43
P.011B	CORRIDOR	B	6'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				44	
P.012	KEG ROOM	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				39A	
P.013	PLAZA COLD FOOD STORAGE	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				39A	
P.014	ERV1	A	3'-0"	7'-0"	1 3/4"	HM	PT	07/1A-G6.002	03/1A-G6.002	04/1A-G6.002	HMNR	PT				41	
P.015	CORRIDOR	B	6'-0"	8'-6"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				45	
P.016	FOOD STORAGE	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				39	
P.017	IDF/IT	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				46	
P.018	IDF/IT RM	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				46	
P.019	IRRIGATION CLOSET	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				40	
P.020	ELEC	A	3'-0"	7'-0"	1 3/4"	HM	PT	06/1A-G6.002	02/1A-G6.002	04/1A-G6.002	HMNR	PT				40	



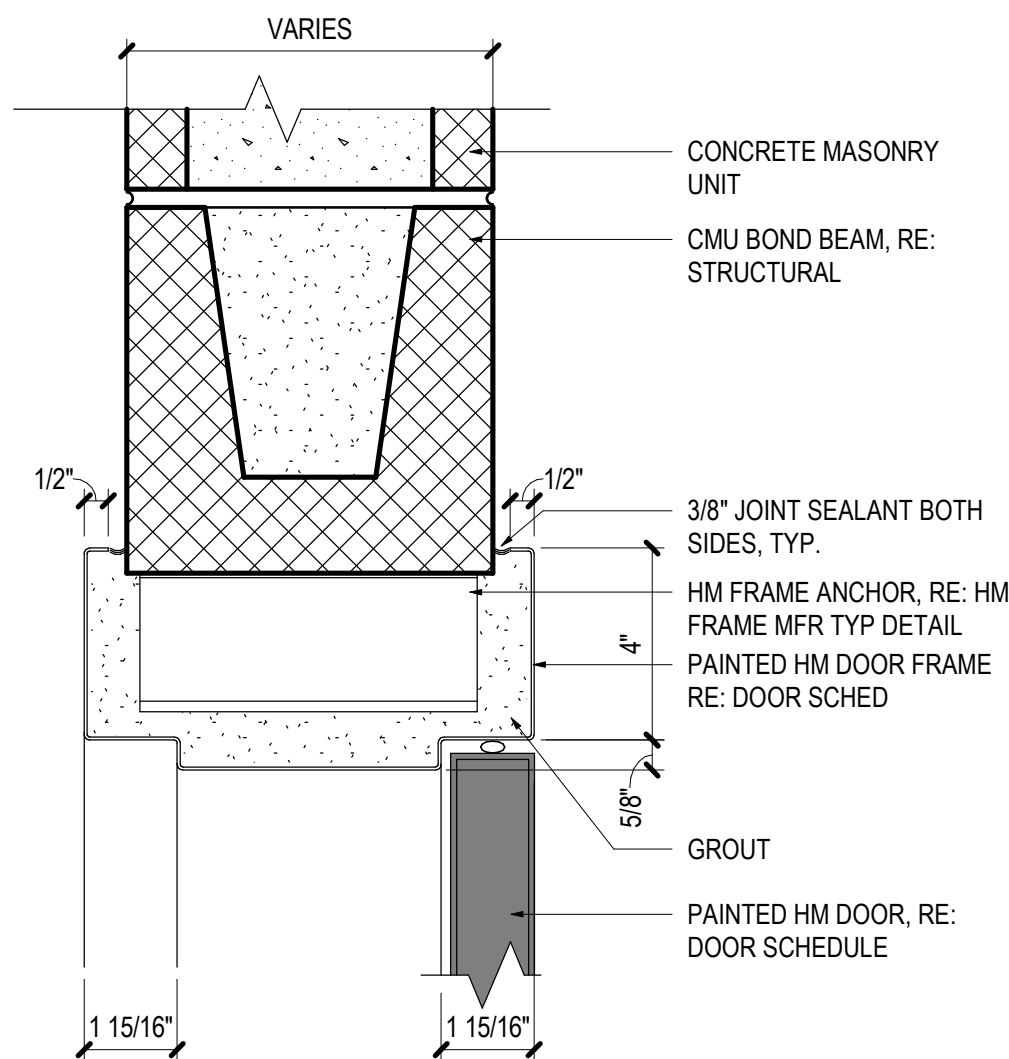
## 06 H.M. FRAME 2" HEAD DETAIL

SCALE: 3" = 1'-0"



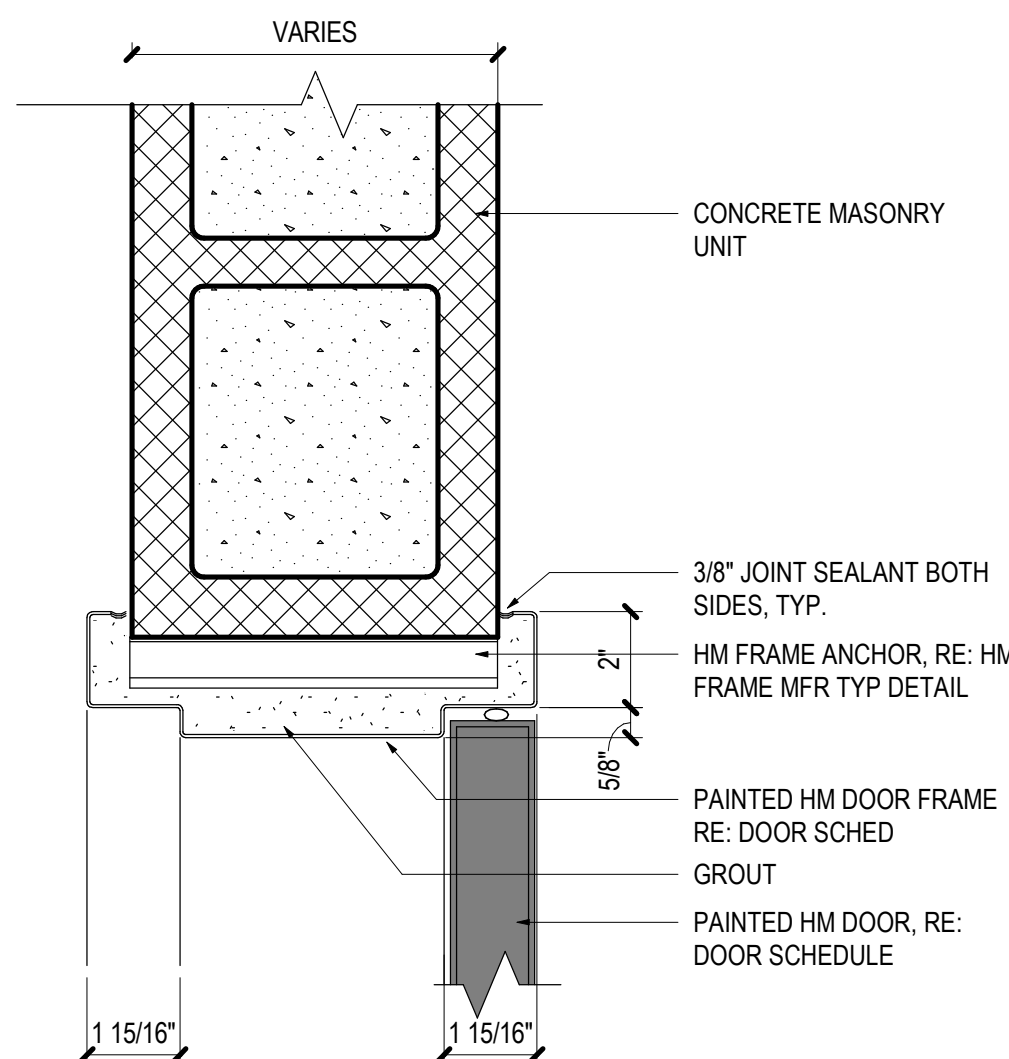
## 02 H.M. FRAME 2" JAMB DETAIL

SCALE: 3" = 1'-0"



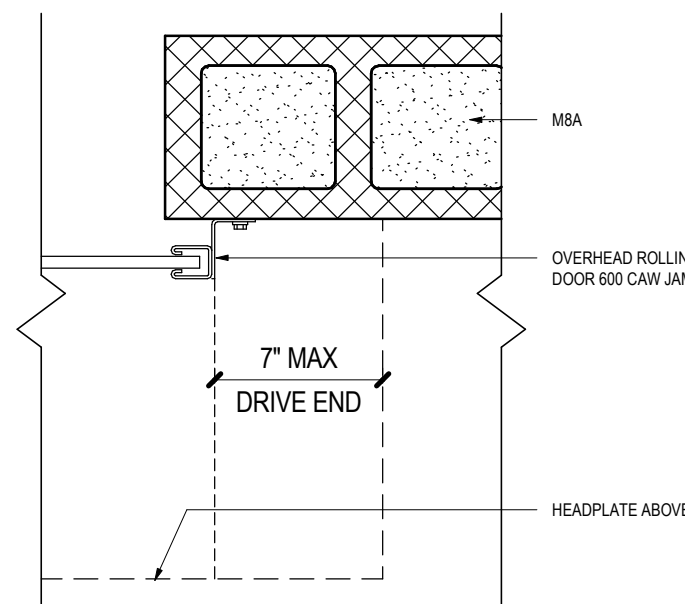
## 07 H-04

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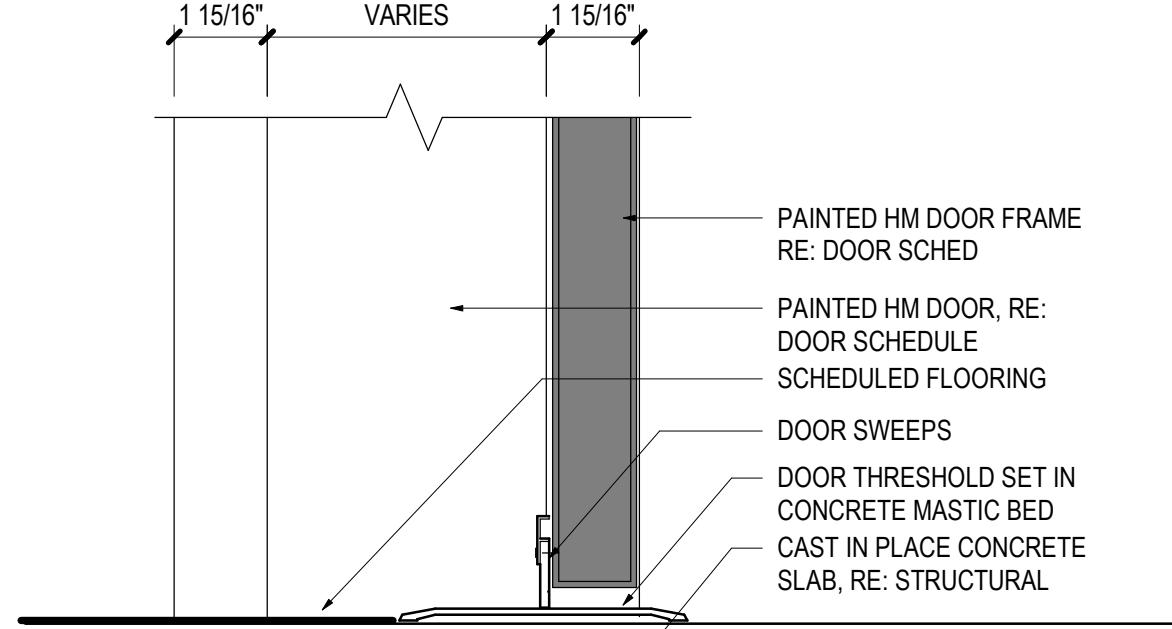
## 03 J-04

SCALE: 3" = 1'-0"



## 08 OVERHEAD DOOR JAMB - MASONRY

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



## 04 S-01

SCALE: 3" = 1'-0"

## GEN. NOTES DOOR

A. G.C. TO PROVIDE COMPLETE DOOR/HARDWARE PACKAGE TO FUNCTION AS INDICATED. ALL DOORS AND HARDWARE SHALL BE BUILDING STANDARD, U.O.N. SUBMIT COMPLETE SPECS TO ARCHITECT FOR REVIEW AND APPROVAL.

B. ALL HARDWARE TO MEET ANSI 117.1 AND ADAAG 2010 AND ALL ACCESSIBILITY REQUIREMENTS. SEE REQUIRED CLEARANCES AND MOUNTING HEIGHTS SHEET.

C. CONTRACTOR TO FIELD VERIFY CONDITION, HAND, THROAT SIZE AND WORKABILITY OF ALL DOORS AND HARDWARE; REPAIR OR REPLACE AS REQUIRED.

D. HINGES AT RATED ASSEMBLIES SHALL BE BALL BEARING.

E. 90 MIN. ASSEMBLIES SHALL HAVE METAL THRESHOLDS.

F. LOCK CYLINDERS AND KEYS SHALL BE COORDINATED WITH TENANT AND BUILDING OWNER.

G. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

H. ALL GLAZING SHALL BE TEMPERED. ALL EXPOSED EDGES SHALL BE POLISHED. GLAZING WITHIN A 24" ARC OF EITHER SIDE OF DOORS MUST BE OF SAFETY GLAZING MATERIAL.

J. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" A.F.F. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE.

## DOOR ABBREV.

AL = ALUMINUM  
BS = BLDG STANDARD  
CL = CLEAR  
(E) = EXISTING  
FH = FULL HEIGHT  
FR = FIRE RATED  
GL = GLASS  
HC = HOLLOW CORE  
HM = HOLLOW METAL  
NR = NON FIRE RATED  
PG = PAINT GRADE  
PT = PAINT  
SC = SOLID CORE  
ST = STAIN  
TG = TEMPERED GLASS  
WD = WOOD

## HARDWARE NOTES

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Date	Description
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Seal / Signature

Project Name  
SSRC | BASE AREA IMPROVEMENTS

Project Number  
003.7835.000

Description  
DOOR SCHEDULE

Scale  
As indicated

## 1A-G6.002



EXTERIOR ASSEMBLY TYPES

ASSEMBLY TYPE SUMMARY
EW1 - METAL STUD W/ EXTERIOR RIGID INSULATION EW2 - CONCRETE WALL EW3 - CLT WALLS EW4 - STL FRAME WALL [MECH YARD]
FL1 - CONCRETE SLAB ON METAL DECK FL2 - CONCRETE SLAB ON GRADE FL3 - CLT SLAB FL4 - CONCRETE SLAB ON EXISTING
RF1 - METAL DECK RF2 - CONCRETE SLAB ON METAL DECK RF3 - CLT SLAB RF4 - HEAVY TIMBER WITH HSS TUBES RF5 - EXISTING CAST IN PLACE CONCRETE SLAB RF6 - EXISTING POST TENSION CONCRETE SLAB
FN1 - CONCRETE WALL ON FOOTER TBD, RE STRUCT

ADDITIONAL NOTES

ABBREVIATIONS
R-VALUE: THERMAL RESISTANCE U-VALUE: THERMAL TRANSMITTANCE C-FACTOR: THERMAL CONDUCTANCE Re: R-VALUE OF THE SYSTEM Re: EFFECTIVE R-VALUE OF THE SYSTEM
*Re/ CALCULATED PER ASHRAE 90.1 TABLE A3.1.4
ASSEMBLY C-FACTOR FOR BELOW GRADE WALL PER ASHRAE 90.1 TABLE A4.2.1
FIRE-RESISTANT ASSEMBLIES
FOR TESTED ASSEMBLIES REFERENCED, SEE SHEETS G4.001-G4.005

ASSEMBLY COMPONENTS

AIR / WATER BARRIERS & RETARDERS	EXPANSION JOINTS
<div><div>AWB1</div><div>DESCRIPTION: FLUID APPLIED AIR AND WATER BARRIER DESCRIPTION (CONT): VAPOR PERMEABLE MANUFACTURER: DOW MODEL NAME: DEFENDAIR 200</div></div>	<div><div>EJ1</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO SLAB CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450 THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 2.25")</div></div>
<div><div>AWB2</div><div>DESCRIPTION: SELF ADHERED ROOFING UNDERLAYMENT MANUFACTURER: GCP TECHNOLOGIES MODEL NAME: GRACE ICE &amp; WATER SHIELD</div></div>	<div><div>EJ2</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO WALL CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450C THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 2.25")</div></div>
WATERPROOFING & DAMPPROOFING	<div><div>EJ3</div><div>DESCRIPTION: WABO WATERTITE DESCRIPTION (CONT): SLAB TO WALL CONNECTION MANUFACTURER: WATSON BOWMAN ACME MODEL NAME: WT-200/450C THICKNESS: REFER TO ASSEMBLY NOTE: (MAX. MOVEMENT 3.5")</div></div>
<div><div>WP1</div><div>DESCRIPTION: COLD FLUID APPLIED WATERPROOFING WITH PROTECTION BOARD AND DRAIN MAT LOCATION: FOUNDATION</div></div>	
<div><div>WP2</div><div>DESCRIPTION: DAMPPROOFING</div></div>	
<div><div>WP3</div><div>DESCRIPTION: 215 MIL FABRIC REINFORCED, HOT FLUID APPLIED WATERPROOFING WITH INTEGRAL PROTECTION COURSE. TOP WITH COMPOSITE DRAINAGE MAT; MODEL NAME: HYDROTECH 6125 OR EQUIVALENT</div></div>	
<div><div>WP4</div><div>DESCRIPTION: CONCRETE PENETRATING 40% SILANE SEALER COLOR: CLEAR</div></div>	
<div><div>WP5</div><div>DESCRIPTION: WATERPROOFING MEMBRANE: HYDROTECH MM 6125-FR OR EQUIVALENT. DRAINAGE BOARD NOT REQUIRED.</div></div>	
<div><div>WP6</div><div>DESCRIPTION: BLIND SIDE WATERPROOFING MEMBRANE FOR SHOTCRETE FOUNDATION WALLS MANUFACTURER: GCP APPLIED TECHNOLOGIES MODEL NAME: PREPRUFE SGS ON WALLS</div></div>	
<div><div>WP7</div><div>DESCRIPTION: BLIND SIDE WATERPROOFING MEMBRANE FOR BELOW SLAB AND FOOTINGS MANUFACTURER: GCP APPLIED TECHNOLOGIES MODEL NAME: PREPRUFE 300R PLUS UNDER SLABS</div></div>	
VAPOR BARRIERS	
<div><div>VB1</div><div>DESCRIPTION: UNDER SLAB VAPOR BARRIER MANUFACTURER: STEGO WRAP OR EQUIVALENT THICKNESS: RE: SPECIFICATION</div></div>	
<div><div>VB2</div><div>DESCRIPTION: 6MM POLYETHYLENE SHEET VAPOR RETARDER</div></div>	
<div><div>VB3</div><div>DESCRIPTION: SELF-ADHERED, FIRE-RETARDANT VAPOR RETARDER</div></div>	
INSULATION	
<div><div>INS1</div><div>DESCRIPTION: MINERAL BOARD (ROCK WOOL) INSULATION DESCRIPTION (CONT): R-6/3/INCH MIN. MANUFACTURER: THERMAFIBER MODEL NAME: RAINBARRIER THICKNESS: REFER TO ASSEMBLY</div></div>	
<div><div>INS2</div><div>DESCRIPTION: CLOSED CELL SPRAY-FOAM INSULATION DESCRIPTION (CONT): WITH THERMAL BARRIER PER IRC 2603.4, NO-BURN FIRE RETARDANT COATING OR EQUIVALENT MANUFACTURER: BASIS OF DESIGN DOW STYROFOAM BRAND SPF CM2030; BASIS OF DESIGN: "INTERNATIONAL FIREPROOF TECHNOLOGY, INC DC 315" THICKNESS: REFER TO ASSEMBLY, R-6/INCH MIN</div></div>	
<div><div>INS3</div><div>DESCRIPTION: BATT INSULATION - FACED DESCRIPTION (CONT): ER=7.10, PER TABLE A8.2-2 MANUFACTURER: REFER TO SPECIFICATIONS THICKNESS: REFER TO ASSEMBLY, TO MEET R-3.17/INCH</div></div>	
<div><div>INS4</div><div>DESCRIPTION: BATT INSULATION - UNFACED DESCRIPTION (CONT): ER=7.10, PER TABLE A9.2-2 MANUFACTURER: REFER TO SPECIFICATIONS THICKNESS: REFER TO ASSEMBLY, TO MEET R-3.17/INCH</div></div>	
<div><div>INS5</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION W/ INTEGRAL DRAINAGE BOARD MANUFACTURER: DOW STYROFOAM HIGHLOAD 60 OR EQUAL THICKNESS: REFER TO ASSEMBLY, R-5/INCH MIN. NOTE: HIGH COMPRESSIVE STRENGTH (60PSI)</div></div>	
<div><div>INS6</div><div>DESCRIPTION: POLYISOCYANURATE INSULATION THICKNESS: REFER TO ASSEMBLY, R-7.2/INCH MIN</div></div>	
<div><div>INS7</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION MANUFACTURER: DOW STYROFOAM - ROOFMATE AND PLAZAMATE THICKNESS: REFER TO ASSEMBLY, R-5/INCH MIN NOTE: HIGH COMPRESSIVE STRENGTH (60 PSI)</div></div>	
<div><div>INS8</div><div>DESCRIPTION: UNFACED EXTRUDED POLYSTYRENE RIGID INSULATION DESCRIPTION (CONT): WITH SUFFICIENT BEARING CAPACITY TO SUPPORT VEHICLES MANUFACTURER: DOW STYROFOAM HIGHLOAD 60 OR EQUAL THICKNESS: REFER TO ASSEMBLY, R-5/INCH MIN NOTE: HIGH COMPRESSIVE STRENGTH (60PSI)</div></div>	
<div><div>INS9</div><div>DESCRIPTION: UNFACED EXPANDED POLYSTYRENE RIGID INSULATION DESCRIPTION (CONT): WITH SUFFICIENT BEARING CAPACITY TO SUPPORT PAVERS MANUFACTURER: CARLISLE INSULFOAM GEOFOAM THICKNESS: REFER TO DRAWINGS</div></div>	

EXTERIOR FINISH LEGEND

<u>GUARDRAIL SYSTEM</u>	
GR1	DESCRIPTION: CUSTOM GUARDRAIL SYSTEM DESCRIPTION (CONT): 42" PRE-FINISHED STEEL RAILING FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2
GR2	DESCRIPTION: CUSTOM GUARDRAIL SYSTEM DESCRIPTION (CONT): PRE-FINISHED STEEL RAILING, 2" X 1/2" STEEL FLAT BAR, EDGES RADIUS TO BE 0.01 INCH FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2 LOCATION: MAIN STAIR
GR3	DESCRIPTION: GUARDRAIL SYSTEM TO MATCH EXISTING WALL AND TOP RAIL CONDITION DESCRIPTION (CONT): GC TO SALVAGE EXISTING STONE CLADDING TO BE REMOVED AND REUSE AT BRIDGE IF IN ACCEPTABLE CONDITION. VERIFY WITH ARCHITECT. GC TO PROVIDE NEW STONE CLADDING TO MATCH EXISTING IF NOT ACCEPTABLE. HEIGHT: 42" MIN FINISH: MATCH MATERIALS AND FINISHES OF EXISTING BRIDGE GUARDRAIL AND WALL LOCATION: GOLD WALK BRIDGE
GR4	DESCRIPTION: GUARDRAIL SYSTEM TO MATCH EXISTING GUARDRAIL ALONG GRID LINE 5 DESCRIPTION (CONT): SAWCUT EXISTING CONCRETE TO NEW FLOOR FINISH ELEVATION. GC TO SALVAGE EXISTING RAILING TO BE REMOVED AND REUSE AT THIS LOCATION IF IN ACCEPTABLE CONDITION. VERIFY WITH ARCHITECT. GC TO PROVIDE NEW RAILING TO MATCH EXISTING IF NOT ACCEPTABLE. HEIGHT: 42" MIN FINISH: MATCH MATERIALS AND FINISHES OF EXISTING GUARDRAIL ALONG GRID LINE 5
GR5	DESCRIPTION: 1 1/2" PIPE GUARDRAIL SYSTEM DESCRIPTION (CONT): PROVIDE 1 1/2" HANDRAIL WHERE APPLICABLE FINISH: GALVANIZED AND PAINTED CUSTOM COLOR TO MATCH PT2 LOCATION: STORAGE ROOM

EXTERIOR SYSTEM & FINISH LEGEND

ASSEMBLY TAG INFORMATION & DESCRIPTION	
<div><div></div><div>XX1-XX1</div></div> <div><div>ASSEMBLY STRUCTURE TYPE [SEE DETAIL DRAWINGS]</div><div>"FL" - FLOOR "EW" - EXTERIOR WALL "RF" - ROOF "FN" - FOUNDATION BELOW GRADE</div><div>VARIANTS OF ASSEMBLY STRUCTURE TYPE</div><div>FINISH SYSTEM TYPE [SEE LEGEND BELOW FOR DESCRIPTIONS]</div><div>VARIANT OF FINISH SYSTEM TYPE [SEE LEGEND BELOW FOR DESCRIPTIONS]</div></div>	
<div><div></div><div>EW6-MT3</div></div> <div><div>EXAMPLE TAG</div><div>EXTERIOR WALL ASSEMBLY</div><div>6TH TYPE OF EXTERIOR WALL ASSEMBLY IN PROJECT</div><div>EXTERIOR FINISH MATERIAL OF WALL = METAL</div><div>3RD TYPE OF METAL FINISH IN PROJECT</div></div>	
EXTERIOR FINISH LEGEND	
<u>STONE</u>	
ST1	DESCRIPTION: FULL DEPTH STONE MASONRY VENEER DESCRIPTION (CONT): 3" - 4" NOMINAL NATURAL STONE CLADDING SUPPLIER: GALLEGOS STONE MODEL NAME: MOUNTAIN ASH GRANITE NOTE: DRY STACK LEDGE
ST2	DESCRIPTION: FULL DEPTH STONE MASONRY COPING CAP DESCRIPTION (CONT): 3" NOMINAL NATURAL STONE CAP, SEE DRAWINGS FOR LENGTHS AND WIDTHS SUPPLIER: GALLEGOS STONE MODEL NAME: TENNESSEE BLUE/ GRAY CAP LIMESTONE
<u>WOOD</u>	
WD1	DESCRIPTION: NATURAL WOOD SIDING DESCRIPTION (CONT): 4" VERTICAL BOARD SPECIES: WESTERN RED CEDAR STAIN: SIKKENS CEDAR 1 & 23 STAIN OR APPROVED ALTERNATE NOTE: STK SELECT KNOTTY GRADE D @ BETTER CLEAR
WD2	DESCRIPTION: STRUCTURAL CLT [CROSS LAMINATED TIMBER] SLAB MANUFACTURER: LAMWOOD FINISH: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE NOTE: SLAB THICKNESS PER STRUCTURAL CONDITION
WD3	DESCRIPTION: STRUCTURAL GLULAM BEAM/ COLUMN DESCRIPTION (CONT): DOUGLAS FIR, ARCHITECTURAL GRADE, PRESSURE TREATED MANUFACTURER: LAMWOOD STAIN: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE NOTE: SIZE PER STRUCT
WD4	DESCRIPTION: NATURAL WOOD SIDING DESCRIPTION (CONT): 4" TONGUE AND GROOVE SPECIES: DOUGLAS FIR, ARCHITECTURAL GRADE, PRESSURE TREATED STAIN: CUSTOM STAINED TO MATCH ARCHITECTS SAMPLE
WD5	DESCRIPTION: T1-11 WOOD SIDING DESCRIPTION (CONT): 3/4" FIRE RATED FINISH: PAINT: MATCH ADJACENT
<u>ARCHITECTURAL LOUVER</u>	
LV1	DESCRIPTION: PREFINISHED ARCHTECTURAL LOUVER DESCRIPTION (CONT): BASIS OF DESIGN, CS SPECIALTIES THINLINE RS-4700 COLOR: CUSTOM COLOR TO MATCH PT2
<u>EXTERIOR PAINT</u>	
PT1	DESCRIPTION: EXTERIOR PAINT FINISH COLOR: CUSTOM CHARCOAL GRAY TO MATCH ARCHITECTS SAMPLE
PT2	DESCRIPTION: EXTERIOR PAINT FINISH MODEL NUMBER: SW6258 COLOR: TRICORN BLACK
PT3	DESCRIPTION: EXTERIOR PAINT FINISH COLOR: CUSTOM GRAY TO MATCH ARCHITECTS SAMPLE
<u>CEMENT PLASTER</u>	
CP1	DESCRIPTION: THREE COAT STUCCO SYSTEM WITH ACRYLIC FINISH MANUFACTURER: PAREX OR APPROVED EQUAL COLOR: TO BE SELECTED FROM FULL RANGE OF MANUFACTURERS STANDARD COLORS

WALL FINISH MATERIAL TAG	
XX1	DESCRIPTION: MATERIAL TYPE DESCRIPTION MANUFACTURER: MATERIAL TYPE MFR MODEL NAME: MATERIAL NAME
GENERAL NOTES	
1. NOT ALL ASSEMBLIES AND MATERIALS LISTED ARE USED IN PROJECT. REFER TO DRAWINGS FOR APPLICABLE MATERIALS.	
EXTERIOR FINISH LEGEND	
<u>CONCRETE</u>	
CN1	DESCRIPTION: FINISH CONCRETE
CN2	DESCRIPTION: FINISH CONCRETE WITH WP3
CN3	DESCRIPTION: CONCRETE UNIT PAVER WITH SNOW MELT BED , RE: LANDSCAPE
CN4	DESCRIPTION: CONCRETE UNIT PAVER WITH SNOW MELT BED
CN5	DESCRIPTION: CIP CONCRETE STEPS, INTEGRAL COLOR, LANDSCAPE FINISH
CN6	DESCRIPTION: REFRIGERATED ICE RINK SLAB, RE: DIV 13
<u>STOREFRONT SYSTEMS</u>	
SF1	DESCRIPTION: CURTAIN WALL SYSTEM MANUFACTURER: KAWNEER 1620UT OR ARCHITECT APPROVED ALTERNATE FINISH: CUSTOM COLOR TO MATCH PT2 CUSTOM MULLION CAP @ ALL LOCATIONS
SF2	DESCRIPTION: WINDOW WALL SYSTEM MANUFACTURER: KAWNEER 601T OR ARCHITECT APPROVED ALTERNATE FINISH: CUSTOM COLOR TO MATCH PT2
<u>SKYLIGHT SYSTEMS</u>	
SK1	DESCRIPTION: SKYLIGHT SYSTEM DESCRIPTION (CONT): KAWNEER 2000 SKYLIGHT, RAFTER DEPTH 8 1/4 #B22001", CONDENSATION GUTTER B22010, PERIMETER SNAP ON COVER B22031, AND INTERIOR SSG MULLIONS MANUFACTURER: KAWNEER OR ARCHITECT APPROVED ALTERNATE FINISH: CUSTOM COLOR TO MATCH PT1 MULLION CAP @ ALL LOCATIONS NOTE: GLAZING: GL2
<u>GLAZING</u>	
GL1	DESCRIPTION: INSULATED GLAZING UNIT DESCRIPTION (CONT): CLEAR GLASS, AIR FILLED MANUFACTURER: VITRO MODEL NAME: SOLARBAN 70 THICKNESS: 1" IGU = 1/4" / 1/2" AIR SPACE / 1/4" U VALUE: 0.29 SHGC: 0.45 SEW ORIENTATIONS
GL2	DESCRIPTION: LAMINATED GLASS MANUFACTURER: VIRACON MODEL NAME: 13/16" ULTRACLEAR LAMINATED GLASS THICKNESS: 13/16" OA (3/8" GLASS, 0.060" CLEAR PVB, 3/8" GLASS)
<u>METAL</u>	
MT1	DESCRIPTION: A606 WEATHERING STEEL DESCRIPTION (CONT): CORTEN ACCENT PANEL MANUFACTURER: CMG GROUP
MT2	DESCRIPTION: BONDERIZED STANDING SEAM MANUFACTURER: BERRIDGE METAL MODEL NAME: CEE-LOCK STANDING SEAM PANEL SYSTEM FINISH: RAW BONDERIZED FINISH SIZE: 16 1/2" COVERAGE PANEL W/ 1 1/2" HT SEAM
MT3	DESCRIPTION: PREFINISHED AND PREFORMED METAL MANUFACTURER: TBD FINISH: CUSTOM COLOR TO MATCH PT1 SIZE: 18 GA MIN.
MT4	DESCRIPTION: STEEL PLATE DESCRIPTION (CONT): 1/2" COLD ROLLED STL PLATE W/ BLACKENED FINISH, FACTORY APPLIED MANUFACTURER: TBD SIZE: PER ELEVATION/PLAN LOCATION: PER ELEVATION/PLAN



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△

Date

Description

- 2021.05.19 BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

05.19.2021

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Project Number

003.7835.000

Description

EXTERIOR MATERIALS SCHEDULE

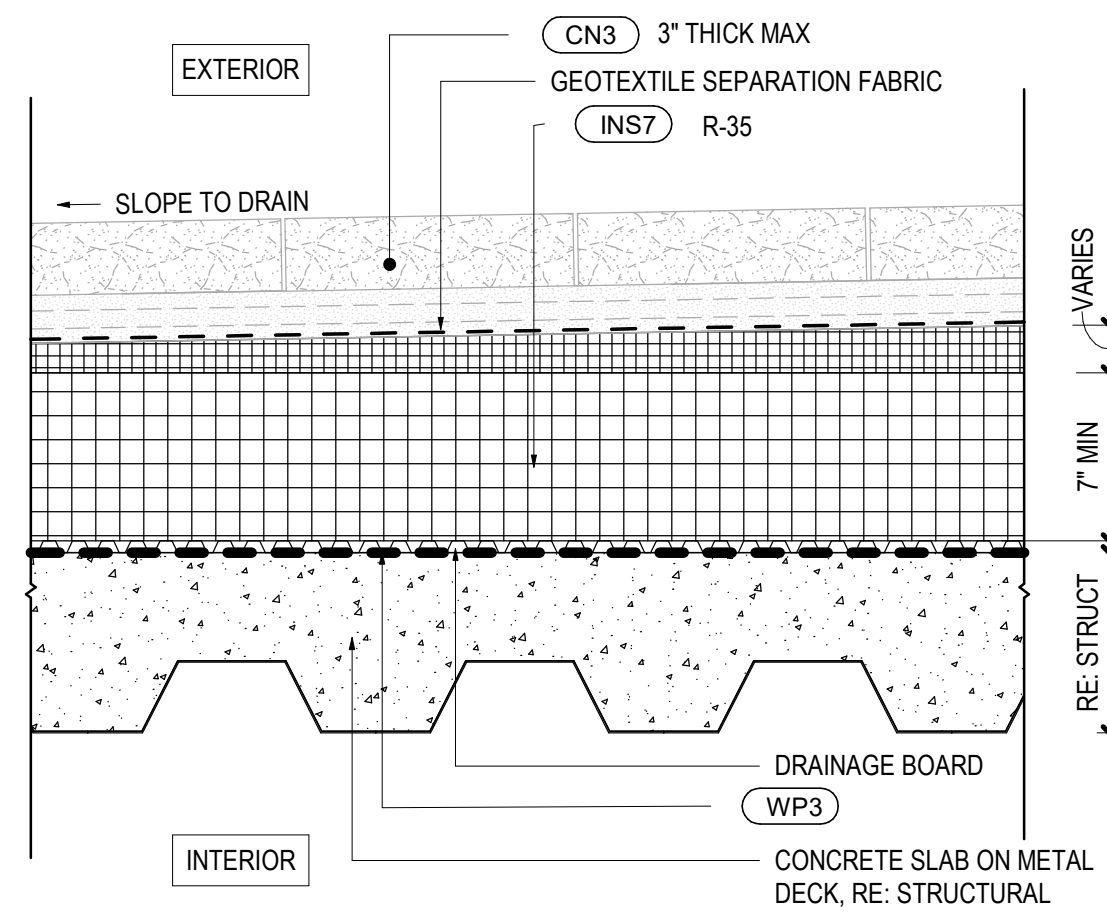
Scale

As indicated

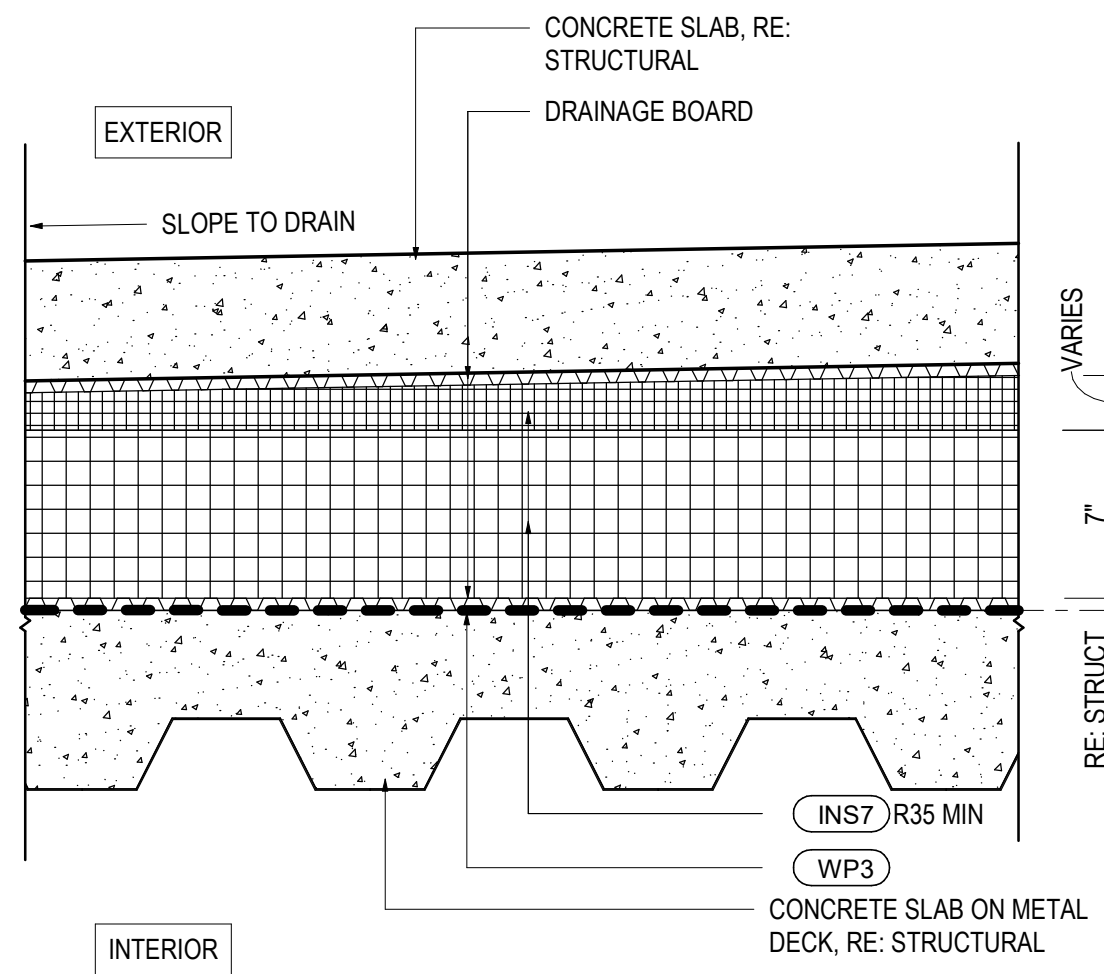
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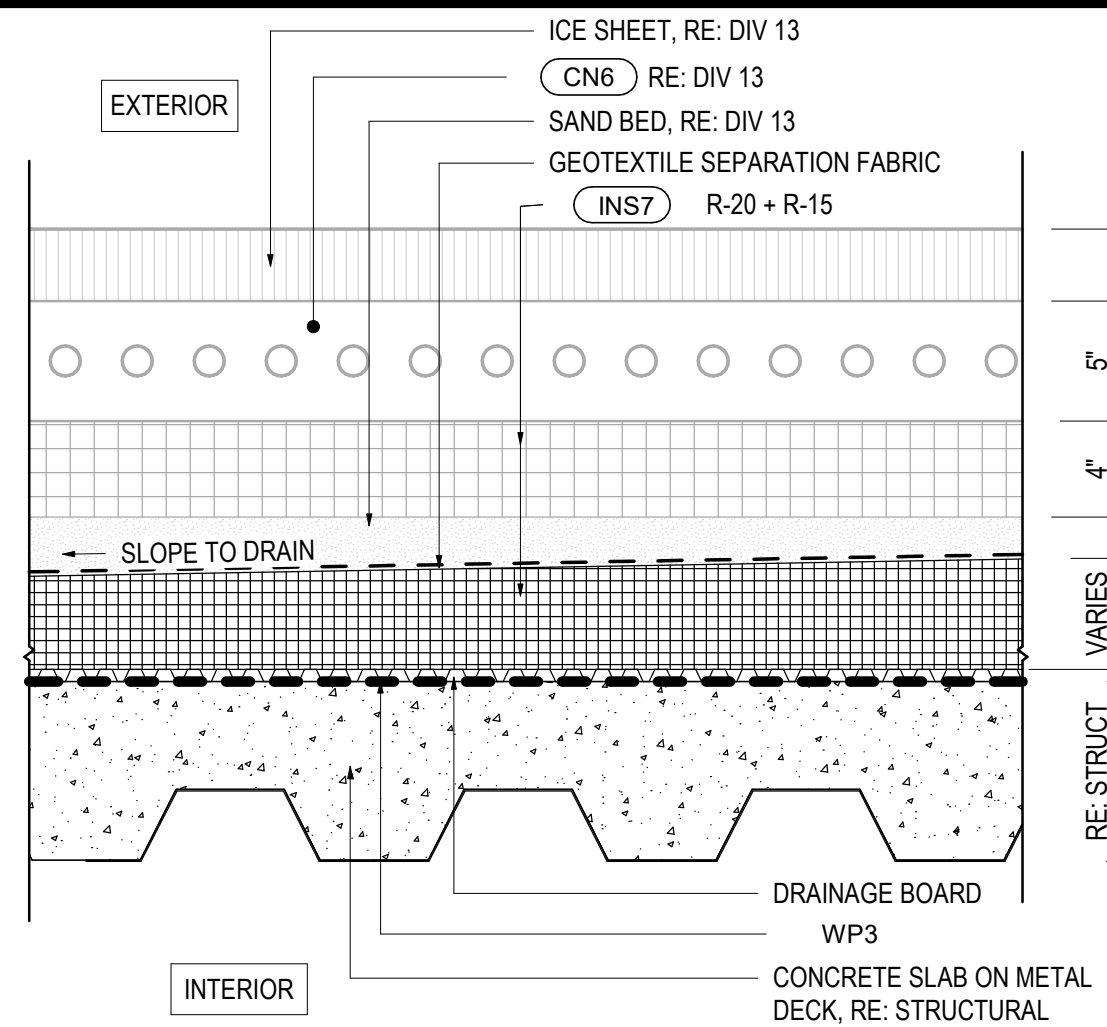
AIR FILM INTERIOR, R0.68  
AIR FILM EXTERIOR, R0.17  
**R VALUE = 35.85**  
**ASSEMBLY U-FACTOR= 0.026**



AIR FILM INTERIOR, R0.68  
AIR FILM EXTERIOR, R0.17  
**R VALUE = 35.85**  
**ASSEMBLY U-FACTOR= 0.026**

17 NOT USED

13 RF2-CN3 - ROOF AT PLAZA & GOLD WALK  
SCALE: 1 1/2" = 1'-0"



AIR FILM INTERIOR, R0.68  
AIR FILM EXTERIOR, R0.17  
**R VALUE = 35.85**  
**ASSEMBLY U-FACTOR= 0.026**

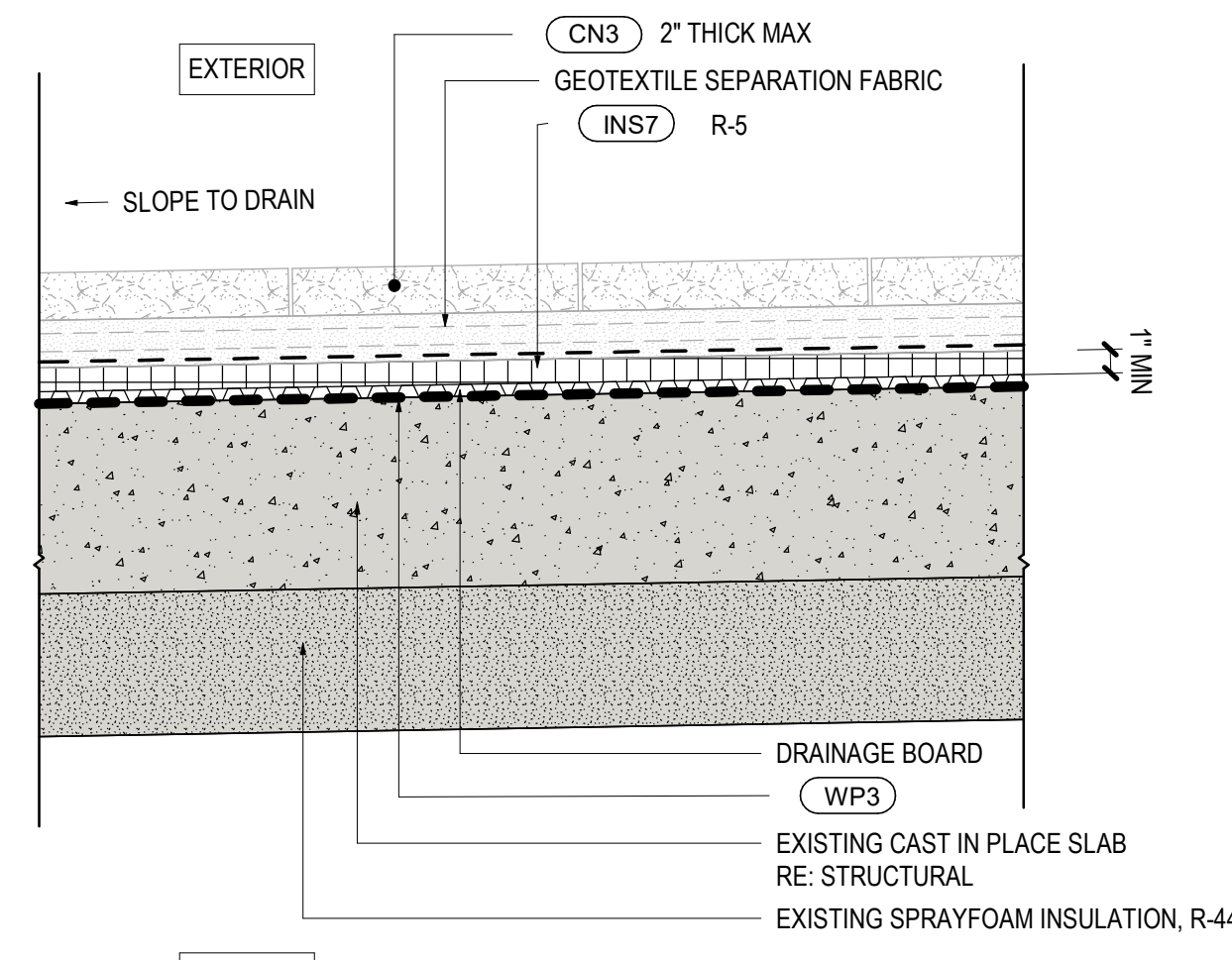
18 NOT USED

14 RF2-CN6 - ROOF AT ICE RINK  
SCALE: 1 1/2" = 1'-0"

09 RF2-CN1 - ROOF AT MECH YARD  
SCALE: 1 1/2" = 1'-0"

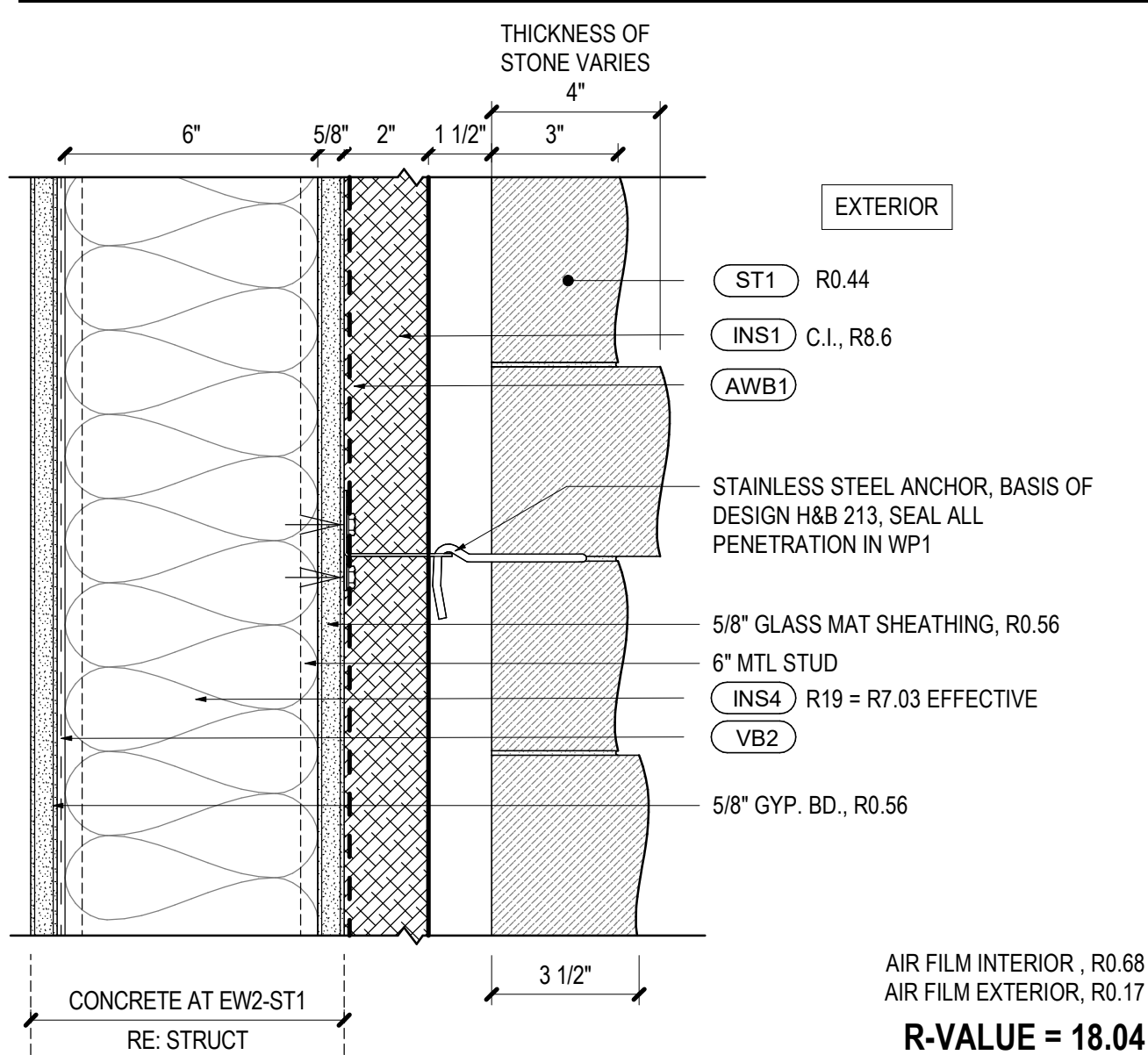
05 NOT USED

01 NOT USED



AIR FILM INTERIOR, R0.68  
AIR FILM EXTERIOR, R0.17  
**R VALUE = 49.85**  
**ASSEMBLY U-FACTOR= 0.020**

02 RF5-CN3 - ROOF AT STAGE  
SCALE: 1 1/2" = 1'-0"



AIR FILM INTERIOR, R0.68  
AIR FILM EXTERIOR, R0.17  
**R-VALUE = 18.04**  
**ASSEMBLY U-FACTOR = 0.055**

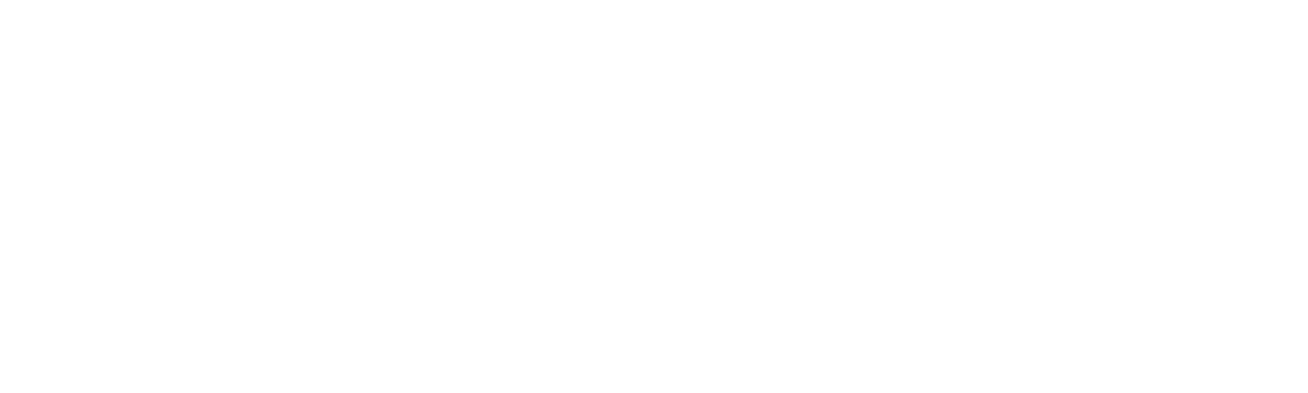
19 NOT USED

15 NOT USED

11 NOT USED

07 NOT USED

03 EW1-ST1 STONE ON FRAMING  
SCALE: 3" = 1'-0"



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Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name  
05.19.2021

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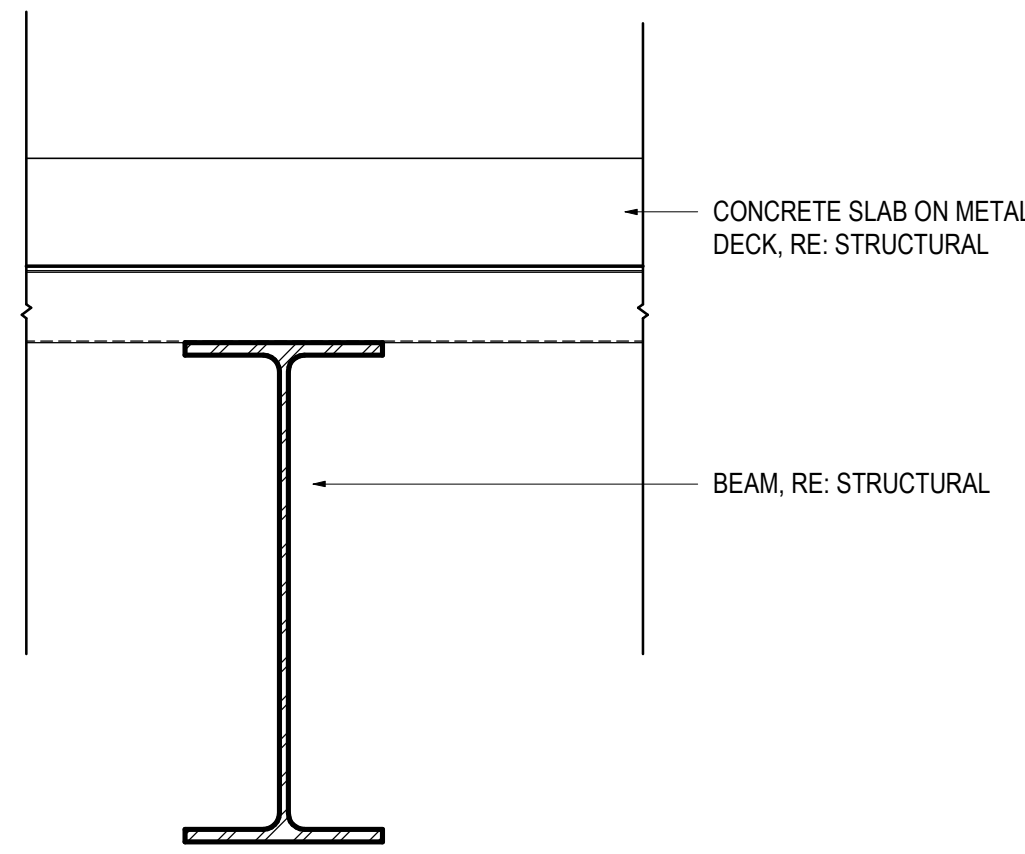
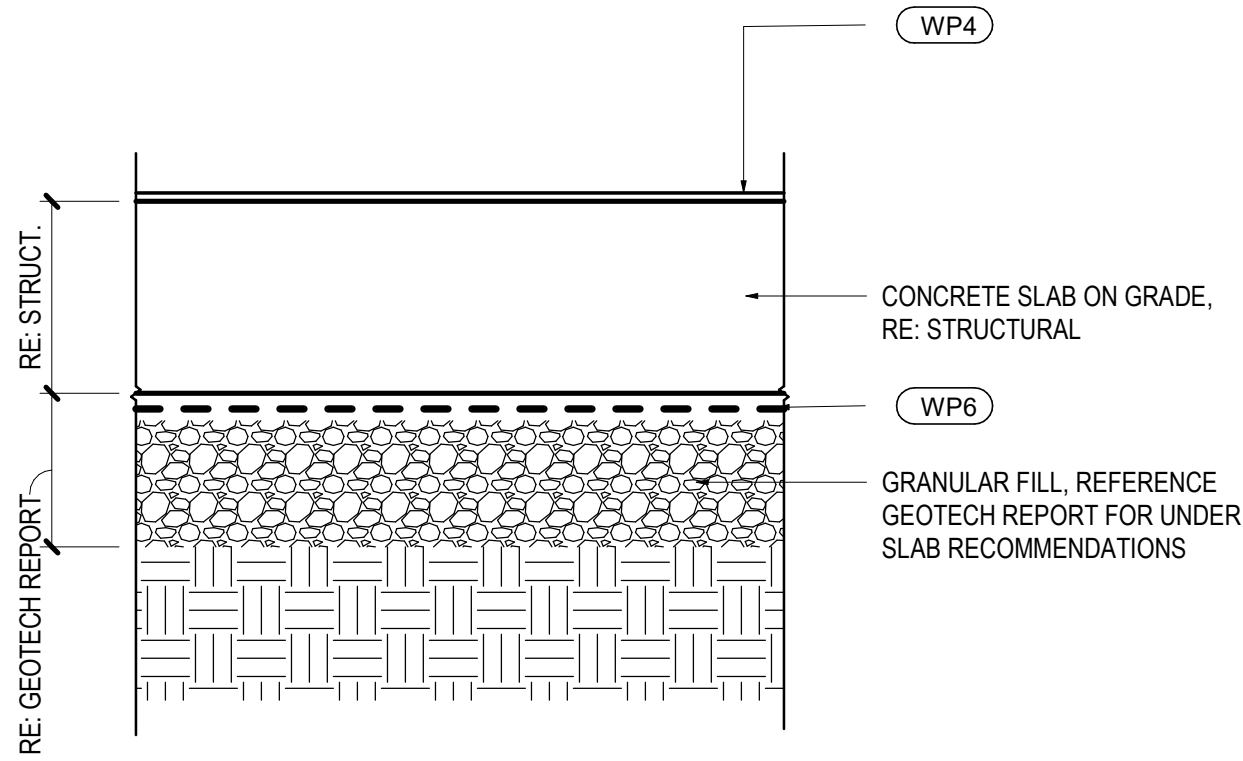
EXTERIOR MATERIALS SCHEDULE

Scale

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**1A-G8.002**





17 NOT USED

13 NOT USED

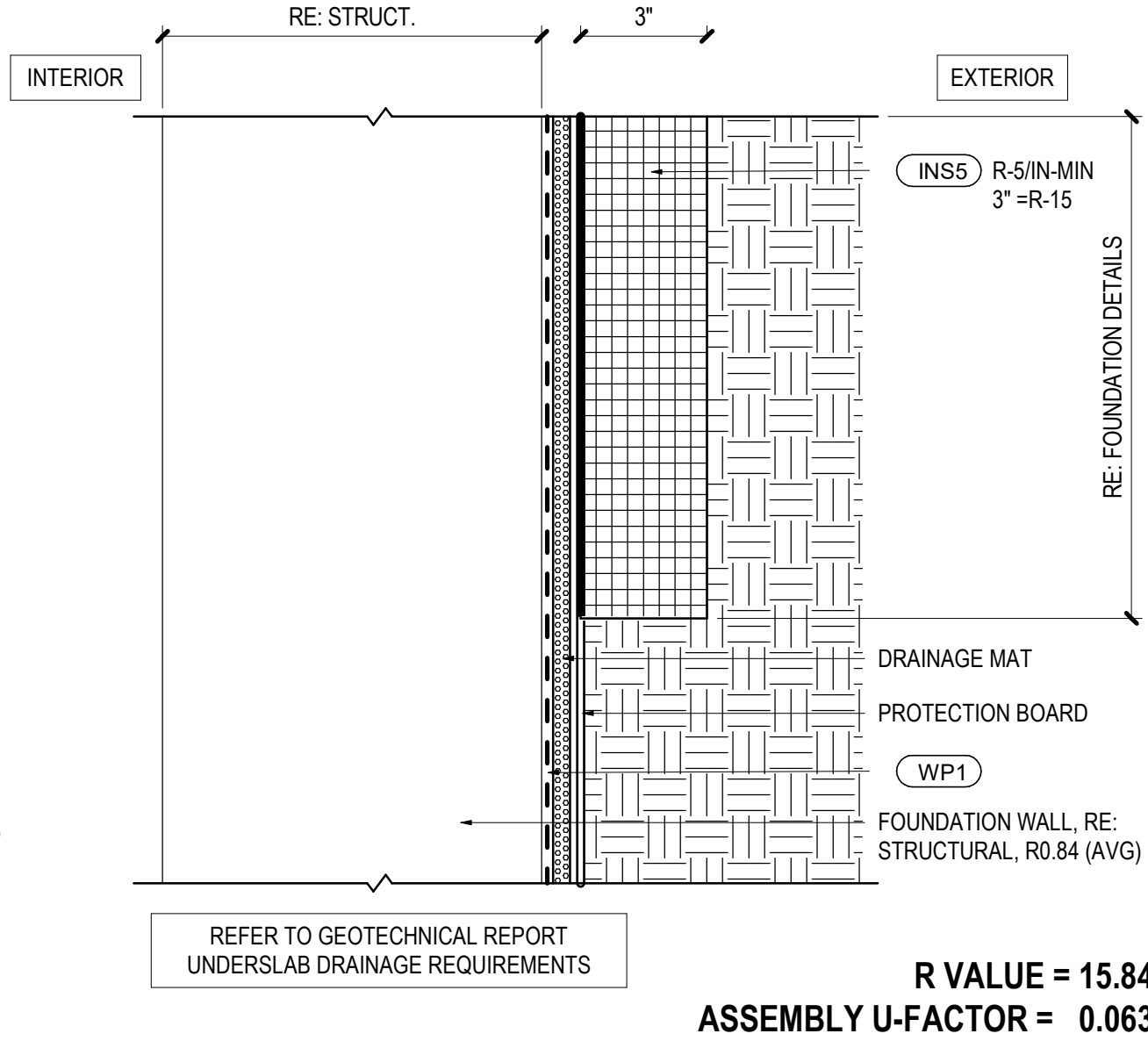
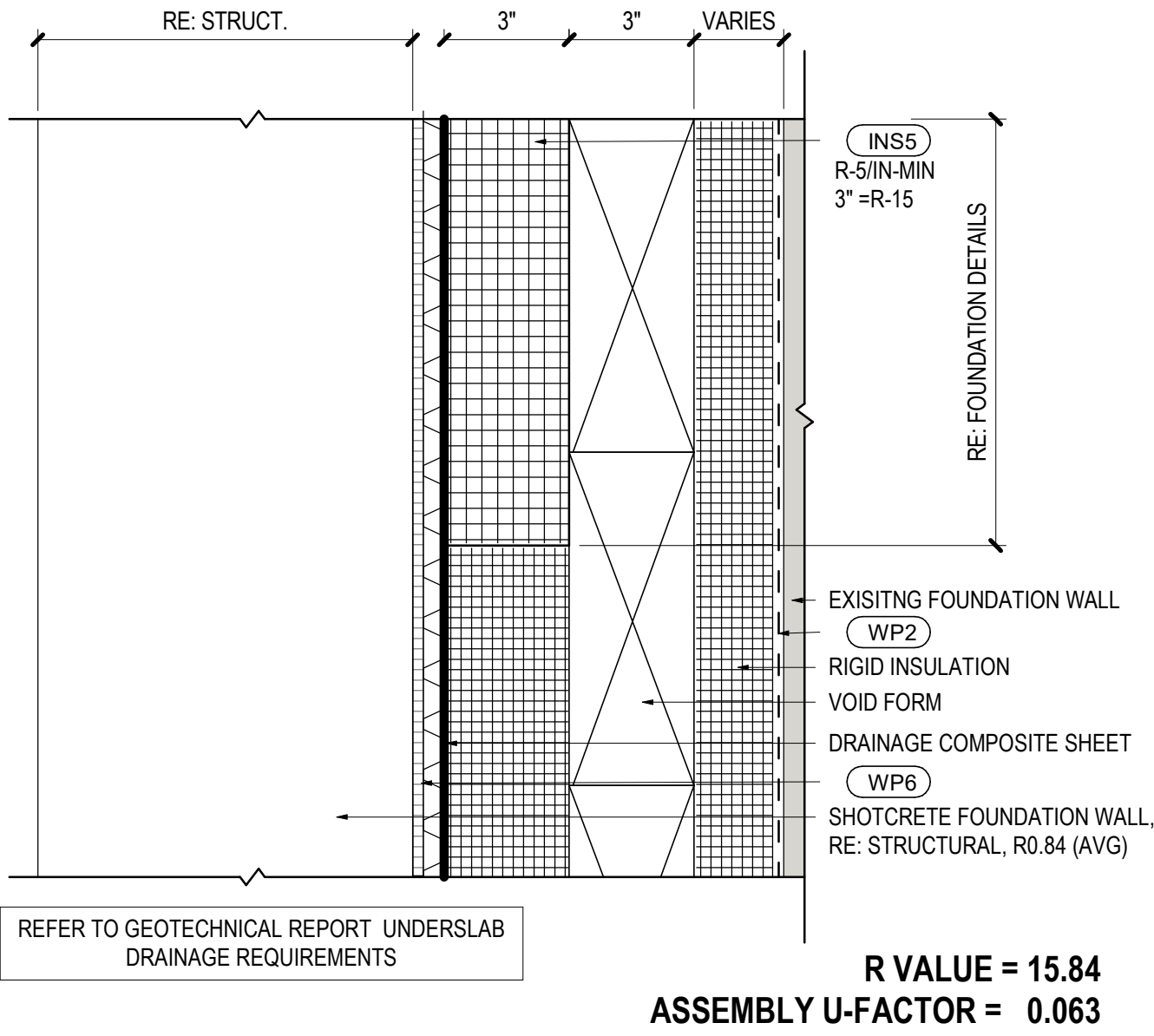
09 FL2-CN1 - SLAB ON GRADE

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

05 NOT USED

01 FL1-CN1 - CONCRETE ON METAL DECK

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



10 NOT USED

06 FN2 - FOUNDATION WALL

SCALE: 3" = 1'-0"

02 FN1 - FOUNDATION WALL

SCALE: 3" = 1'-0"

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