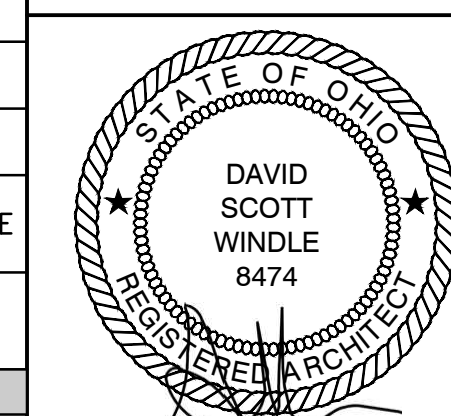




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DAVID SCOTT WINDLE  
 LICENSE #8474  
 EXPIRATION: 12/31/2023

07/13/22

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
 3975 CASCADES BLVD., SPACE 23A  
 KENT, OH 44240  
 CLIENT: DANIEL LINSWORTH  
 3717 WOODS TRAIL  
 KENT, OH 44240



OH-2193

DATE	DESCRIPTION
07/08/22	CORPORATE REVIEW
07/13/22	PERMIT ISSUE

DATE	DESCRIPTION

SHEET TITLE:  
**DEMOLITION SLAB PLAN**

SHEET NUMBER:

**D1.0**

1054 PROJECT NUMBER:  
**DBQ22008**

- GENERAL NOTES**
- THIS AND ANY OTHER DEMOLITION DRAWINGS ARE NOT INTENDED TO BE ALL INCLUSIVE NOT TO DEFINE THE SCOPE OF WORK OF ALL DEMOLITION WORK REQUIRED FOR THIS PROJECT. DEMOLITION DRAWINGS ARE SHOWN ONLY TO AID THE CONTRACTOR IN PREPARING THE BID AND PERFORMING THE WORK. CONTRACTOR SHALL EXAMINE ALL CONSTRUCTION DOCUMENTS AND VISIT THE SITE DURING BIDDING AS REQUIRED TO DETERMINE THE TOTAL EXTENTS AND SCOPE OF THE DEMOLITION PORTION OF THIS WORK. ALL ITEMS ELECTRICAL, HVAC, PLUMBING, STRUCTURAL FINISH, ETC. THAT ARE NOT REQUIRED TO REMAIN, SHALL BE PART OF THE DEMOLITION WORK REQUIRED TO CARRY OUT WORK AS SHOWN IN THE CONSTRUCTION DOCUMENTS.
  - EXISTING SLAB COULD NOT BE VERIFIED PRIOR TO COMPLETION OF CONSTRUCTION DOCUMENTS AND IS ASSUMED TO BE SLAB ON GRADE. IF SAW CUTTING REVEALS ANY OTHER TYPE OF SLAB G.C. SHALL STOP SAW CUTTING AND NOTIFY ARCHITECT.
  - GENERAL CONTRACTOR TO DISPOSE OF ALL WASTE DURING DEMOLITION IN ACCORDANCE WITH ALL APPLICABLE JURISDICTIONS, CODES, AND ORDINANCES.
  - GENERAL CONTRACTOR TO FIELD LOCATE AND DEACTIVATE IF REQUIRED -IN ALL WALLS TO BE DEMOLISHED -ALL EXISTING "HOT" ELECTRICAL WIRING PRIOR TO DEMOLITION.
  - GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY PRIOR TO PROCEEDING.
  - REFER TO MEP PLANS FOR COORDINATION OF ALL EXISTING MECHANICAL, ELECTRICAL AND PLUMBING.
  - CONTRACTOR SHALL NOT DEMOLISH ANY LOAD BEARING WALLS OR CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. NOTIFY OWNER OF ANY STRUCTURAL ISSUES ARISING FROM DEMOLITION.
  - REMOVE AND CAP ALL EXISTING ELECTRICAL CONDUIT THROUGHOUT PER ELECTRICAL CODE REQUIREMENTS.
  - REMOVE AND CAP ALL EXISTING FLOOR POWER AND COMMUNICATION OUTLETS THROUGHOUT PER ELECTRICAL CODE REQUIREMENTS.
  - WHERE PARTITION DEMOLITION OCCURS ADJACENT TO EXISTING TO REMAIN, PATCH AND REPAIR ADJACENT CONDITIONS FOR FINAL STORE FINISHES.
  - ITEMS DAMAGED DURING DEMOLITION BEYOND SCOPE OF DEMOLITION REQUIREMENTS SHALL BE REPAIRED OR REPLACED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER.

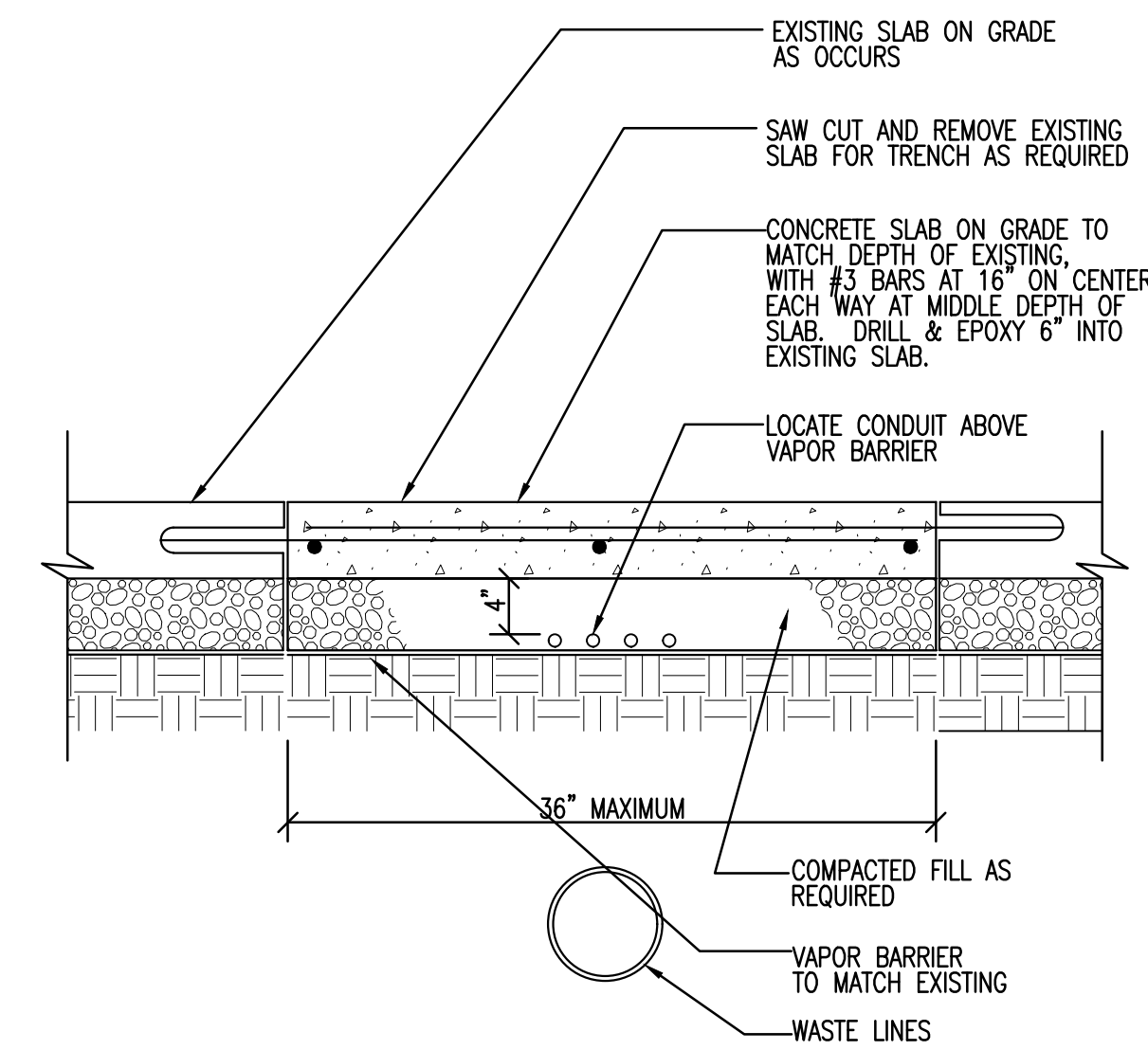
**WALL LEGEND**

NOTE: ALL ITEMS SHOWN AS DASHED ARE TO BE REMOVED.

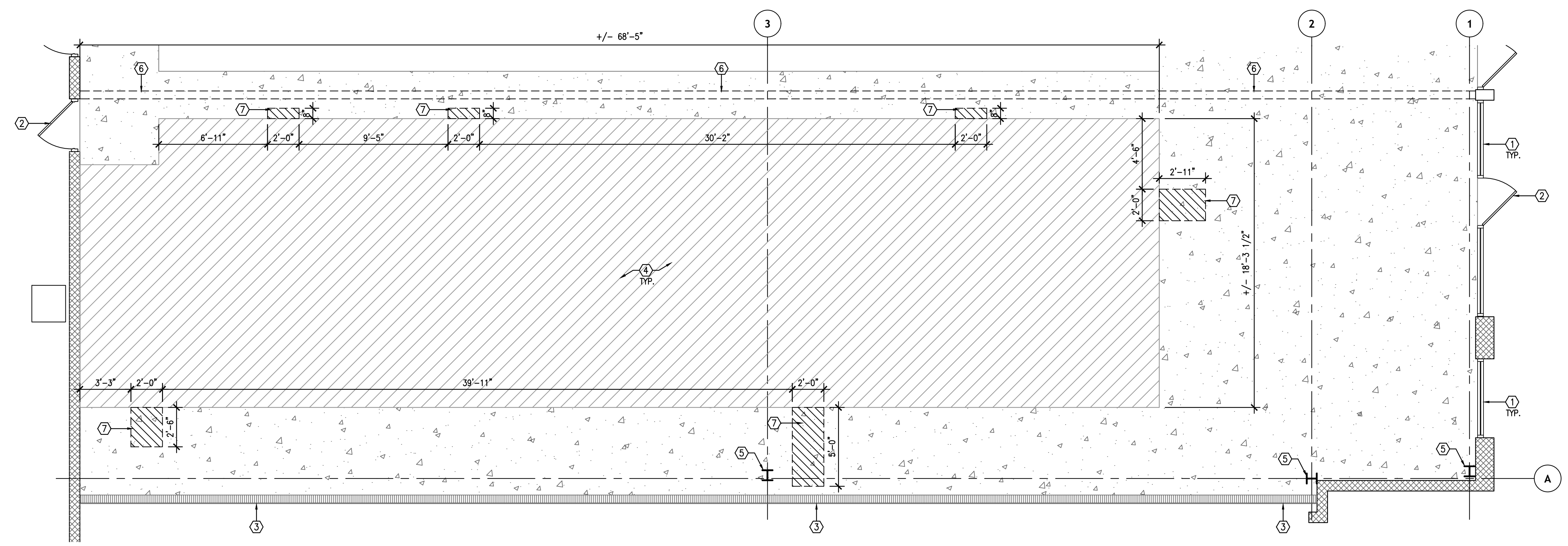
	EXISTING SLAB TO REMAIN.
	EXISTING SLAB LEAVE-OUT TO BE POUR TO MATCH EXISTING.

**DEMOLITION FLOOR PLAN KEY NOTES:**

- EXISTING STOREFRONT WINDOW TO REMAIN.
- EXISTING DOOR AND FRAME TO REMAIN.
- EXISTING FRAMING AND INSULATION TO REMAIN.
- EXISTING SLAB LEAVE OUT (+/- 1250 S.F.). INFILL AS REQUIRED. REFER TO DETAIL 2/D1.0.
- EXISTING COLUMN TO REMAIN.
- LINE OF EXISTING DEMISING WALL.
- PORTION OF EXISTING CONCRETE SLAB TO BE REMOVED FOR NEW PLUMBING, REFER TO PLUMBING SHEETS.



SLAB DOWELING AT TRENCH  
 NOT TO SCALE 2



DEMOLITION SLAB PLAN  
 1/4" = 1'-0" 1

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by the scoping provisions adopted by the administrative authority or by Chapters 4 through 11. 301.2 Overlap. Unless otherwise specified, clear floor spaces, clearances at fixtures, maneuvering clearances at doors, and turning spaces shall be permitted to overlap.

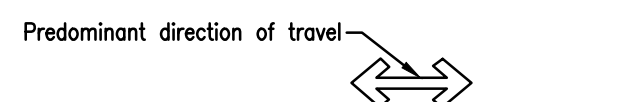
302 Floor Surfaces

302.1 General. Floor surfaces shall be stable, firm, and slip resistant, and shall comply with Section 302. Changes in level in floor surfaces shall comply with Section 303.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The pile shall be 1/2 inch (13 mm) maximum in height. Exposed edges of carpet shall be fastened to the floor and shall have trim along the entire length of the exposed edge. Carpet edge trim shall comply with Section 303.

302.3 Openings. Openings in floor surfaces shall be of a size that does not permit the passage of a 1/2 inch (13 mm) diameter sphere, except as allowed in Sections 407.4.3, 408.4.3, 409.4.3, 410.4, and 805.10. Elongated openings shall be placed so that the long dimension is perpendicular to the predominant direction of travel.

Figure 302.2 CARPET ON FLOOR SURFACES



303 Changes in Level

303.1 General. Changes in level in floor surfaces shall comply with Section 303.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) maximum in height shall be permitted to be vertical.

303.3 Beveled. Changes in level greater than 1/4 inch (6.4 mm) in height and not more than 1/2 inch (13 mm) maximum in height shall be beveled with a slope not steeper than 1:2.

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) in height shall be ramped and shall comply with Section 405 or 406.

Figure 303.2 CARPET ON FLOOR SURFACES

Figure 303.3 BEVELED CHANGES IN LEVEL

Figure 303.2 CARPET ON FLOOR SURFACES

Figure 303.3 BEVELED CHANGES IN LEVEL

304 Turning Space

304.1 General. A turning space shall comply with Section 304.

304.2 Floor Surface. Floor surfaces of a turning space shall comply with Section 302. Changes in level are not permitted within the turning space.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning spaces shall comply with Section 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a circular space with a 60-inch (1525 mm) minimum diameter. The turning space shall be permitted to include knee and toe clearance complying with Section 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60-inch (1525 mm) minimum square, with arms and base 36 inches (915 mm) minimum in width. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in height, and the base shall be clear of obstructions 24 inches (610 mm) minimum. The turning space shall be permitted to include knee and toe clearance complying with Section 306 only at the end of either the base or one arm.

Figure 304.3.1 SIZE OF TURNING SPACE

Figure 304.3.2 SIZE OF TURNING SPACE

Figure 304.3.1 SIZE OF TURNING SPACE

Figure 304.3.2 SIZE OF TURNING SPACE

304.4 Door Swing. Unless otherwise specified, doors shall be permitted to swing into turning spaces.

305 Clear Floor Space

305.1 General. A clear floor space shall comply with Section 305.

305.2 Floor Surfaces. Floor surfaces of a clear floor space shall comply with Section 302. Changes in level are not permitted within the clear floor space.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor space shall be 48 inches (1220 mm) minimum in length and 30 inches (760 mm) minimum in width.

305.4 Knee and Toe Clearances. Unless otherwise specified, clear floor space shall be permitted to include knee and toe clearance complying with Section 306.

305.5 Position. Unless otherwise specified, the clear floor space shall be positioned for either forward or parallel approach to an element.

305.6 Approach. One full, unobstructed side of the clear floor space shall adjoin or overlap an accessible route or adjoin another clear floor space.

305.7 Alcoves. If a clear floor space is in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances complying with Sections 305.7.1 and 305.7.2 shall be provided, as applicable.

305.7.1 Parallel Approach. Where the clear floor space is positioned for a parallel approach, the alcove shall be 60 inches (1525 mm) minimum in width where the depth exceeds 15 inches (380 mm).

305.7.2 Forward Approach. Where the clear floor space is positioned for a forward approach, the alcove shall be 36 inches (915 mm) minimum in width where the depth exceeds 24 inches (610 mm).

Figure 305.3 SIZE OF CLEAR FLOOR SPACE

Figure 305.4 FORWARD APPROACH

Figure 305.5 PARALLEL APPROACH

Figure 305.6 FORWARD APPROACH

Figure 305.7 PARALLEL APPROACH

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor space on an element, clearance at an element, or a turning space, the space shall comply with Section 306. Additional space shall not be prohibited beneath an element, but shall not be considered as part of the clear floor space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space beneath an element between 9 inches (230 mm) and 27 inches (685 mm) above the floor shall be considered knee clearance and shall comply with Section 306.2.

306.2.2 Maximum Depth. Toe clearance shall be permitted to extend 25 inches (635 mm) minimum under an element.

306.2.3 Minimum Depth. Where toe clearance is required at an element as part of a clear floor space complying with Section 305, the toe clearance shall extend 17 inches (430 mm) minimum beyond the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the floor shall not be considered toe clearance. 306.2.5 Width. Toe clearance shall be 30 inches (760 mm) minimum in width.

306.3 Knee Clearance.

306.3.1 General. Space beneath an element between 9 inches (230 mm) and 27 inches (685 mm) above the floor shall be considered knee clearance and shall comply with Section 306.3.

306.3.2 Maximum Depth. Knee clearance shall be permitted to extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the floor.

306.3.3 Minimum Depth. Where knee clearance is required beneath an element as part of a clear floor space complying with Section 305, the knee clearance shall be 11 inches (280 mm) minimum in depth at 9 inches (230 mm) above the floor, and 8 inches (205 mm) minimum in depth at 27 inches (685 mm) above the floor.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the floor, the knee clearance shall be permitted to be reduced at a rate of 1 inch (25 mm) in depth for 1 inch (25 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) minimum in width.

Figure 306.2 TOE CLEARANCE

Figure 306.3 KNEE CLEARANCE

Figure 306.2 TOE CLEARANCE

Figure 306.3 KNEE CLEARANCE

307 Protruding Objects

307.1 General. Protruding objects on circulation paths shall comply with Section 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the floor shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

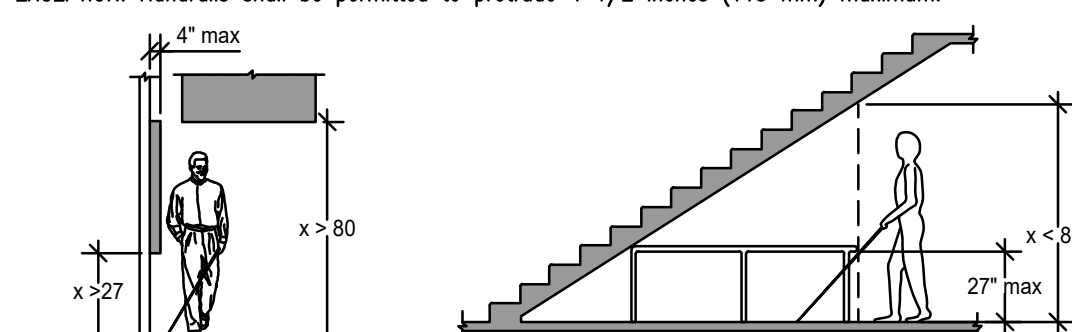


Figure 307.2 LIMITS OF PROTRUDING OBJECTS

Figure 307.4 REDUCED VERTICAL CLEARANCE

Figure 307.2 LIMITS OF PROTRUDING OBJECTS

Figure 307.4 REDUCED VERTICAL CLEARANCE

307.3 Post-Mounted Objects. Objects on posts or pylons shall be permitted to overhang 4 inches (100 mm) maximum where more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the floor. Objects on multiple posts or pylons where the clear distance between the posts or pylons is greater than 12 inches (305 mm) shall have the lowest edge of such object either 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the floor.

EXCEPTION: Sliding portions of handrails between the top and bottom riser of stairs and above the ramp run shall not be required to comply with Section 307.3.

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) minimum. Rails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm). The leading edge of such rails or barrier shall be located 27 inches (685 mm) maximum above the floor.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the floor.

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with Section 308.

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the floor.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space complying with Section 305 shall extend for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum above the floor where the reach depth is 20 inches (510mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum above the floor, and the reach depth shall be 25 inches (635 mm) maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the edge of the clear floor space is 10 inches (255 mm) maximum from the element, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the floor.

EXCEPTION: Existing elements that are not altered shall be permitted at 54 inches (1370 mm) maximum above the floor.

308.3.2 Obstructed High Side Reach. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum above the floor and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum above the floor for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum above the floor for a reach depth of 24 inches (610 mm) maximum.

EXCEPTION: At washing machines and clothes dryers, the height of the obstruction shall be permitted to be 36 inches (915 mm) maximum above the floor.

309 Operable Parts

309.1 General. Operable parts required to be accessible shall comply with Section 309.

309.2 Clear Floor Space. A clear floor space complying with Section 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds (22.2 N) maximum.

EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5.0 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. Accessible routes required by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 4.

402 Accessible Routes

402.1 General. Accessible routes shall comply with Section 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: Walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable portions of this standard.

402.3 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with Section 403.

403.2 Floor Surface. Floor surfaces shall comply with Section 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of a walking surface shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with Section 303.

403.5 Clear Width. The clear width of an accessible route shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided the reduced width segments are separated by segments that are 48 inches (1220 mm) minimum in length and 36 inches (915 mm) minimum in width.

403.5.1 Clear Width at 180 Degree Turn. Where an accessible route makes a 180 degree turn around an object that is less than 48 inches (1220 mm) in width, clear widths shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum during the turn, and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Section 403.5.1 shall not apply where the clear width during the turn is 60 inches (1525 mm) minimum.

403.5.2 Passing Space. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either a 60-inch (1525 mm) minimum by 80-inch (2030 mm) minimum space, or an intersection of two walking surfaces that provide a T-shaped turning space complying with Section 304.3.2, provided the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Door Hardware. Handles, pulls, latches, locks, and other operable parts on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching, or twisting of the wrist to operate. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the floor. Where sliding doors are in full open position, operable hardware shall be exposed and usable from both sides.

EXCEPTION: Locks used only for security purposes and not used for normal operation shall not be required to comply with Section 404.2.6.

404.2.7 Closing Speed. Door closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to an open position of 12 degrees shall be 5 seconds minimum.

404.2.7.2 Spring Hinges. Door spring hinges shall be adjusted so that from an open position of 70 degrees, the door shall move to the closed position in 1.5 seconds minimum.

404.2.8.1 Vision Lites. Doors and sidelites adjacent to doors containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one panel on either the door or an adjacent sidelite 43 inches (1090 mm) maximum above the floor.

EXCEPTION: Vision lites with the lowest part more than 66 inches (1675 mm) above the floor shall not be required to comply with Section 404.2.10.

404.3 Automatic Doors. Automatic doors and automatic gates shall comply with Section 404.3. Full powered automatic doors shall comply with ANSI/BHMA A156.10 listed in Section 105.2.4. Power-assist and low-energy doors shall comply with ANSI/BHMA A156.19 listed in Section 105.2.3.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.3.2, 404.3.4, and 404.3.5.

404.3.1 Clear Width. Doorways shall have a clear opening width of 32 inches (815 mm) in power-on and power-off mode. The minimum clear opening width for automatic door systems shall be based on the clear opening provided with all locks in the open position.

404.3.2 Maneuvering Clearances. Maneuvering clearances at power-assisted doors shall comply with Section 404.2.3.

404.3.3 Thresholds. Thresholds and changes in level at doorways shall comply with Section 404.2.4.

404.3.4 Two Doors in Series. Doors in series shall comply with Section 404.2.5.

404.3.5 Control Switches. Manually operated control switches shall comply with Section 309. The clear floor space adjacent to the control switch shall be located beyond the arc of the door swing.

405 Ramps

405.1 General. Ramps along accessible routes shall comply with Section 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with Section 405.

405.2 Slope. Ramp runs shall have a running slope greater than 1:20 and not steeper than 1:12.

EXCEPTION: In existing buildings or facilities, ramps shall be permitted to have slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor Surfaces. Floor surfaces of ramp runs shall comply with Section 302.

405.5 Clear Width. The clear width of a ramp run shall be 36 inches (915 mm) minimum. Handrails and handrail supports that are provided on the ramp run shall not project into the required clear width of the ramp run.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the bottom and top of each ramp run. Landings shall comply with Section 405.7.

405.7.1 Slope. Landings shall have a slope not steeper than 1:48 and shall comply with Section 302.

405.7.2 Width. Clear width of landings shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. Landings shall have a clear length of 60 inches (1525 mm) minimum.

405.7.4 Change in Direction. Ramps that change direction at ramp landings shall be sized to provide a turning space complying with Section 304.3.

405.7.5 Doorways. Where doorways are adjacent to a ramp landing, maneuvering clearances required by Sections 404.2.3 and 404.3.2 shall be permitted to overlap the landing area where a door that is subject to locking is located adjacent to a ramp landing, the landing shall be sized to provide a turning space complying with Section 304.3.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with Section 503.

405.9 Edge Protection. Edge protection complying with Section 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

EXCEPTIONS:

1. Edge protection shall not be required on ramps not required to have handrails and that have flared sides complying with Section 406.3.

2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.

3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of 1/2 inch (13 mm) or more within 10 inches (255 mm) horizontally of the minimum landing area specified in Section 405.7.

4. Edge protection shall not be required on the sides of ramped aisles where the ramps provide access to the adjacent seats and aisle access ways.

406.13.1 Area Covered. Detectable warnings shall be 24 inches (610 mm) minimum in depth in the direction of travel. The detectable warning shall extend the full width of the curb ramp or flush surface.

406.14 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.15 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.16 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.17 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.18 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.19 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.20 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.21 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.22 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.23 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.24 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.25 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall be provided with detectable warnings complying with Section 705, that are 24 inches (610 mm) in depth, and extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

406.26 Detectable Warnings at Islands or Cut-through Medians. Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands

**CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS (CONT.)**

501 General  
501.1 Scope. General site and building elements required to be accessible by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 5.

502 Parking Spaces  
502.1 General. Accessible car and van parking spaces shall comply with Section 502.  
502.2 Vehicle Space Size. Car parking spaces shall be 96 inches (2440 mm) minimum in width. Van parking spaces shall be 132 inches (3350 mm) minimum in width.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) minimum in width where the adjacent access aisle is 96 inches (2440 mm) minimum in width.

502.3 Vehicle Space Marking. Car and van parking spaces shall be marked to define the width. Where parking spaces are marked with lines, the width measurements of parking spaces and adjacent access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

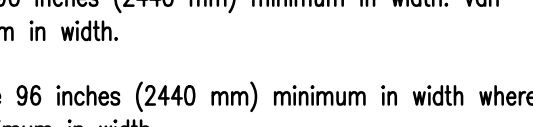


Figure 502.2 Vehicle Parking Spaces

502.4 Access Aisle. Car and van parking spaces shall have an adjacent access aisle complying with Section 502.4.

502.4.1 Location. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle. Access aisles shall not overlap with the vehicular way. Parking spaces shall be permitted to have access aisles placed on either side of the car or van parking space. Van parking spaces that are angled shall have access aisles located on the passenger side of the parking space.

502.4.2 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) minimum in width.

502.4.3 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.4.4 Marking. Access aisles shall be marked so as to discourage parking in them. Where access aisles are marked with lines, the width measurements of access aisles and adjacent parking spaces shall be made from the centerline of the markings.

EXCEPTION: Where access aisles or parking spaces are not adjacent to another access aisle or parking space, measurements shall be permitted to include the full width of the line defining the access aisle or parking space.

502.5 Floor Surfaces. Parking spaces and access aisles shall comply with Section 302 and have surface slopes not steeper than 1:48. Access aisles shall be at the same level as the parking spaces they serve.

502.6 Vertical Clearance. A vertical clearance of 98 inches (2490 mm) minimum shall be provided at the following locations:

1. Parking spaces for vans.
2. The access aisles serving parking spaces for vans.
3. The vehicular routes serving parking spaces for vans.

502.7 Identification. Where accessible parking spaces are required to be identified by signs, the signs shall include the International Symbol of Accessibility complying with Section 703.6.3.1. Signs identifying van parking spaces shall contain the designation "van accessible." Such signs shall be 60 inches (1525 mm) minimum above the floor of the parking space, measured to the bottom of the sign.

502.8 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

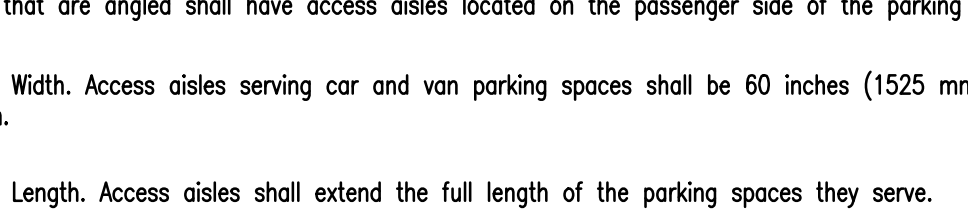


Figure 502.4 Parking Space Access Aisle

503 Passenger Loading Zones  
503.1 General. Accessible passenger loading zones shall comply with Section 503.  
503.2 Vehicle Pull-up Space Size. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) minimum in width and 20 feet (6095 mm) minimum in length.

503.3 Access Aisle. Passenger loading zones shall have an adjacent access aisle complying with Section 503.3.

503.4 Floor Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with Section 302 and shall have slopes not steeper than 1:48. Access aisles shall be at the same level as the vehicle pull-up space they serve.

503.5 Vertical Clearance. A vertical clearance of 114 inches (2895 mm) minimum shall be provided at the following locations:

1. Vehicle pull-up spaces;
2. The access aisles serving vehicle pull-up spaces;
3. A vehicular route from an entrance to the passenger loading zone, and;
4. A vehicular route from the passenger loading zone to a vehicular exit serving vehicle pull-up spaces.

**CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS (CONT.)**

503.5 Vertical Clearance. A vertical clearance of 114 inches (2895 mm) minimum shall be provided at the following locations: Vehicle pull-up spaces, the access aisles serving pull-up spaces, and a vehicular route from the entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit serving vehicle pull-up spaces.

504 Stairways  
504.1 General. Stairs shall comply with 504.  
504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high maximum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.  
504.4 Tread Surface. Stair treads shall comply with Section 302 and shall not have a slope not steeper than 1:48.  
504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The maximum projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread or floor below.

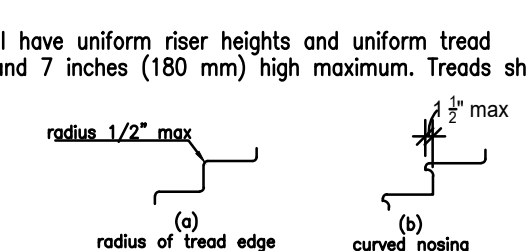


Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.  
504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails  
505.1 General. Handrails required by Section 405.8 for ramps, or Section 504.6 for stairs, shall comply with Section 505.

505.2 Location. Handrails shall be provided on both sides of stairs and ramps.  
EXCEPTION: In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width. In assembly seating areas, handrails shall not be required on the sides of ramped aisles serving seats.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs. Other handrails shall comply with Sections 505.10 and 307. EXCEPTION: Handrails shall not be required to be continuous in aisles serving seating where handrails are discontinuous to provide access to seating and to permit crossovers within the aisles.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above stair nosings, ramps, surfaces, and walking surfaces. Handrails shall be at a consistent height above stair nosings, ramp surfaces, and walking surfaces.

505.5 Clearances. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

505.6 Gripping Surface. Gripping surfaces shall be continuous, without interruption by newel posts, other construction elements, or obstructions.  
EXCEPTIONS:  
1. Handrail brackets or balusters attached to the bottom surface of the handrail shall not be considered obstructions, provided the brackets or balusters comply with the following criteria:  
a. Not more than 20 percent of the handrail length is obstructed.  
b. Horizontal projections beyond the sides of the handrail occur 11/2 inches (38 mm) minimum below the bottom of the handrail, and provided that for each 1/2 inch (13 mm) of additional handrail perimeter dimension above 4 inches (100 mm), the vertical clearance dimension of 11/2 inch (38 mm) can be reduced by 1/8 inch (3.2 mm), and  
c. Edges shall be rounded.

2. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.

505.7 Cross Section. Handrails shall have a cross section complying with Section 505.7.1 or 505.7.2.

505.7.1 Circular Cross Section. Handrails with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-circular Cross-Section. Handrails with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

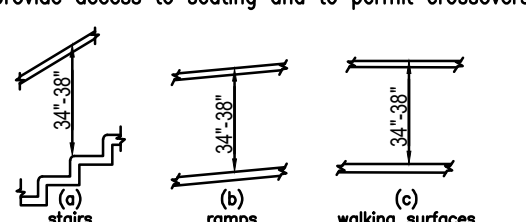


Figure 505.7 Handrail Cross-Section

505.8 Surfaces. Handrails, and any wall or other surfaces adjacent to them, shall be free of any sharp or abrasive elements. Edges shall be rounded.

505.9 Fittings. Handrails shall not rotate within their fittings.  
505.10 Handrail Extensions. Handrails shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 505.10.

EXCEPTIONS:  
1. Continuous handrails at the inside turn of stairs and ramps.  
2. Handrail extensions are not required in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within the aisle.  
3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or floor, or shall be continuous to the handrail of an adjacent ramp run.

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the landing surface. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

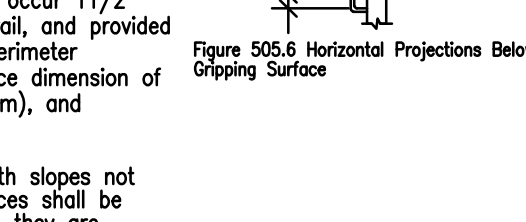


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

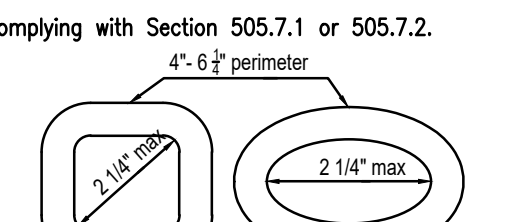


Figure 505.10.2 Top Handrail Extension at Stairs

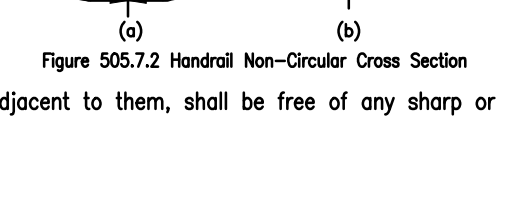


Figure 505.10.3 Bottom Handrail Extension at Stairs

CHAPTER 6: PLUMBING ELEMENTS & FACILITIES

601 General  
601.1 Scope. Plumbing elements and facilities required to be accessible by scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 6.

602 Drinking Fountains  
602.1 General. Accessible drinking fountains shall comply with Sections 602 and 307.  
602.2 Clear Floor Space. A clear floor space complying with Section 305, positioned for a forward approach to the drinking fountain, shall be provided. Knee and toe space complying with Section 306 shall be provided. The clear floor space shall be centered on the drinking fountain.

EXCEPTION: 1. Drinking fountains for standing persons. 2. Drinking fountains primarily for children's use shall be permitted where the spout outlet is 30 inches (760 mm) maximum above the floor, a parallel approach complying with Section 305 is provided and the clear floor space is centered on the drinking fountain.

602.3 Operable Parts. Operable parts shall comply with Section 309.  
602.4 Minimum Area. Spout outlets of wheelchair accessible drinking fountains shall be 36 inches (915 mm) maximum above the floor. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the floor.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125mm) maximum from the front edge of the drinking fountain, including bumpers. Where only a parallel approach is provided, the spout shall be located 31/2 inches (90 mm) maximum from the front edge of the drinking fountain, including bumpers.

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) minimum in height. The angle of the water stream from spouts within 3 inches (75 mm) of the front of the drinking fountain shall be 30 degrees maximum, and from spouts between 3 inches (75 mm) and 5 inches (125 mm) from the front of the drinking fountain shall be 15 degrees maximum, measured horizontally relative to the front face of the drinking fountain.

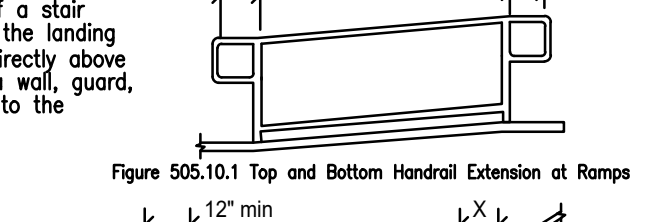


Figure 602.5 (a) Drinking Fountain Spout Location

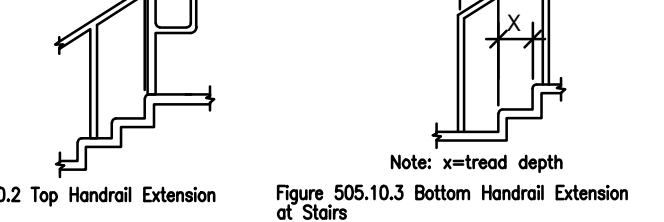


Figure 602.5 (b) Drinking Fountain Spout Location

**CHAPTER 6: PLUMBING ELEMENTS & FACILITIES (CONT.)**

603 Toilet and Bathing Rooms  
603.1 General. Toilet and bathing rooms shall comply with 603.  
603.2 Clearances.  
603.2.1 Turning Space. A turning space complying with Section 304 shall be provided within the room. The required turning space shall not be provided within a toilet compartment.  
603.2.2 Door Swing. Doors shall not swing into the clear floor space or clearance for any fixture.

EXCEPTIONS:  
1. Doors to a toilet or bathing room for a single occupant, accessed only through a private office and not for 250 sq ft or more of public use, shall be permitted to swing into the clear floor space, provided the swing of the door can be reversed to comply with Section 603.2.2.  
2. Where the room is for individual use and a clear floor space complying with Section 305.3 is provided within the room beyond the arc of the door swing, the door shall not be required to comply with Section 603.2.2.

603.3 Mirrors. Where mirrors are located above lavatories, a mirror shall be located over the accessible lavatory and shall be mounted with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the floor. Where mirrors are located above counters that do not contain lavatories, the mirror shall be mounted with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the floor.

EXCEPTION: Other than within Accessible dwelling or sleeping units, mirrors are not required over the lavatories or counters if a mirror is located within the same toilet or bathing room and mounted with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the floor.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in Section 308. Shelves shall be 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the floor.

603.5 Diaper Changing Tables. Diaper changing tables shall comply with Sections 308 and 902  
604 Water Closets and Toilet Compartments

604.1 General. Accessible water closets and toilet compartments shall comply with Section 604. Compartments containing more than one plumbing fixture shall comply with Section 603.3. Wheelchair accessible compartments shall comply with Section 604.9. Ambulatory accessible compartments shall comply with Section 604.10.

EXCEPTION: Water closets and toilet compartments primarily for children's use shall be permitted to comply with Section 604.11 as applicable.

604.2 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition. Water closets located in ambulatory accessible compartments specified in Section 604.10 shall have the centerline of the water closet 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition.

604.3 Clearance. 604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum in width, measured perpendicular from the sidewall.  
604.3.2 Clearance Depth. Clearance around the water closet shall be 56 inches (1420 mm) minimum in depth, measured perpendicular from the rear wall.  
604.3.3 Clearance Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, accessible routes, clear floor space at other fixtures and the turning space. No other fixtures or obstructions shall be within the required water closet clearance.

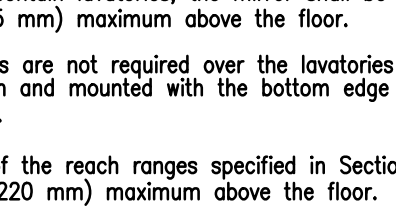


Figure 604.2 Water Closet Location

604.4 Height. The height of water closet seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.  
EXCEPTION: A water closet in a toilet room for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with Section 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.  
EXCEPTIONS:  
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.  
2. In alterations, grab bars shall not be required to be installed in housing or holding clips that are specially designed without protrusions for purposes of suicide prevention.

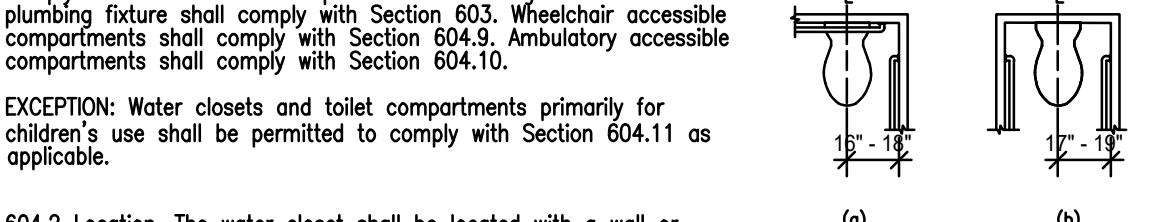


Figure 604.3.1 Size of Clearance at Water Closets

604.5.1 Fixed Side Wall Grab Bars. Fixed side-wall grab bars shall be 42 inches (1065 mm) minimum in length and extend 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall. In addition, a vertical grab bar 18 inches (455 mm) minimum in length shall be mounted with the bottom of the bar located 39 inches (990 mm) minimum and 41 inches (1040 mm) maximum above the floor, with the center line of the bar located 39 inches (990 mm) minimum and 41 inches (1040 mm) maximum from the rear wall.

EXCEPTION: The vertical grab bar at water closets primarily for children's use shall comply with Section 609.4.2.  
604.5.2 Rear Wall Grab Bars. The rear wall grab bar shall be 36 inches (915 mm) minimum in length, and extend from the centerline of the water closet 12 inches (305 mm) minimum to the side closest to the wall, and 24 inches (610 mm) minimum on the transfer side.

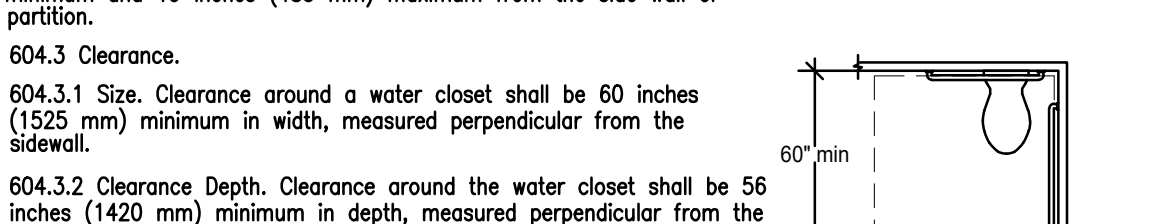


Figure 604.5.1 Side Wall Grab Bar at Water Closets

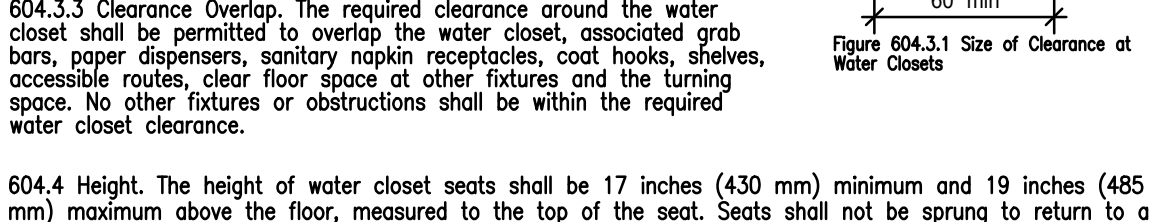


Figure 604.5.2 Rear Wall Grab Bar at Water Closets

EXCEPTIONS:  
1. A parallel approach complying with Section 305 and centered on the sink, shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided.  
2. The requirement for knees and toe clearances shall not apply to a lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use.  
3. A knee clearance of 24 inches (610 mm) minimum above the floor shall be permitted at lavatories and sinks used primarily by children ages 6 through 12 where the rim or counter surface is 31 inches (785 mm) maximum above the floor.  
4. A parallel approach complying with Section 305 and centered on the sink, shall be permitted at lavatories and sinks used primarily by children ages 5 and younger.  
5. The requirement for knees and toe clearances shall not apply to more than one bowl of a multi-bowl sink.  
6. A parallel approach complying with Section 305 and centered on the sink, shall be permitted at wet bars.

606.3 Height. The front of lavatories and sinks shall be 34 inches (865 mm) maximum above the floor, measured to the higher of the rim or counter surface.  
EXCEPTION: A lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with Section 606.3.

606.6 Exposed Pipes and Surfaces. Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.  
609 Grab Bars  
609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.  
609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.  
609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.  
609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a minimum cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.  
609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

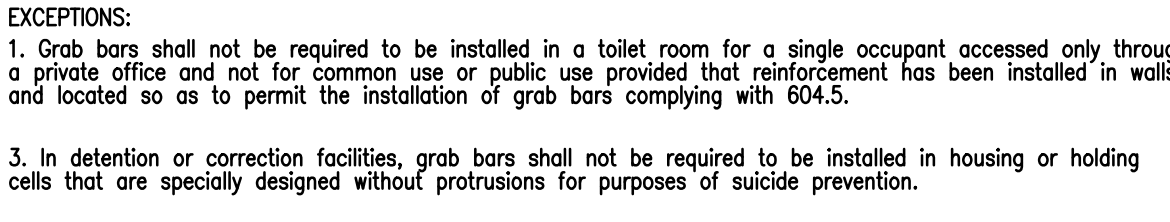


Figure 609.2.1 Grab Bar Non-Circular Cross Section

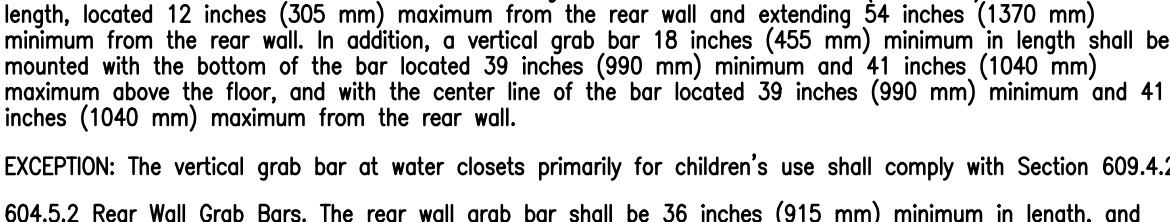


Figure 609.2.2 Non-Circular Cross Section

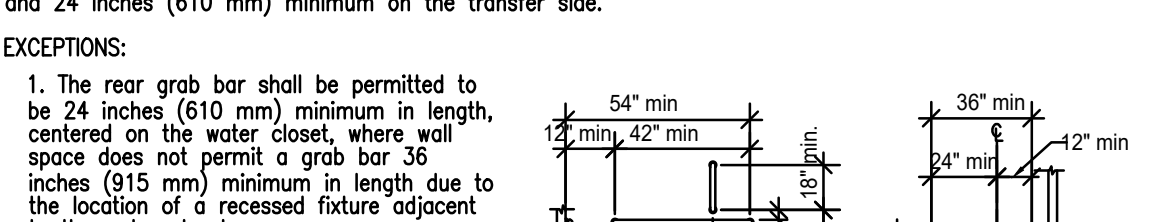


Figure 609.3 Spacing of Grab Bars

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.  
609.4 Position of Grab Bars.  
609.4.1 General. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the floor measured to the top of the gripping surface or shall be installed as required by Items 1 through 3.  
1. The lower grab bar on the back wall of a bathtub shall comply with Section 607.4.1.1 or 607.4.2.1.  
2. Vertical grab bars shall comply with Sections 604.5.1, 607.4.1.2, 607.4.2.2, and 608.3.1.2.  
3. Grab bars at water closets primarily for children's use shall comply with Section 609.4.2.  
609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.  
609.6 Fittings. Grab bars shall not rotate within their fittings.  
609.7 Installation and Configuration. Grab bars shall be installed in any manner that provides a gripping surface at the locations specified in this standard and does not obstruct the clear floor space. Horizontal and vertical grab bars shall be permitted to be separate bars, a single piece bar, or combination thereof.  
609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener mounting device, or supporting structure.

604.9.3.1 Door Opening Location. The farthest edge of toilet compartment door opening shall be located in the front wall or partition or in the side wall or partition as required by Table 604.9.3.1.  
604.9.4 Approach. Wheelchair accessible compartments shall be arranged for left-hand or right-hand approach to the water closet.  
604.9.5 Toe Clearance. Toe clearance for compartments primarily for children's use shall comply with Section 604.9.5.1.  
604.9.6 Toe Clearance. Toe clearance for other wheelchair accessible compartments shall comply with Section 604.9.5.1.  
604.9.7.1 Toe Clearance at Compartments. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the floor and extending 6 inches (150 mm) beyond the compartment side face of the partition, exclusive of partition support members.  
EXCEPTIONS:  
1. Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) in depth with a wall-hung water closet, or greater than 65 inches (1650 mm) in depth with a floor-mounted water closet.  
2. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) in width.  
604.9.8 Grab Bars. Grab bars shall comply with Section 609. Side wall grab bars complying with Section 604.9.5.2. Toe clearance at the water closet, and a rear wall grab bar complying with Section 604.9.5.1, shall be provided.

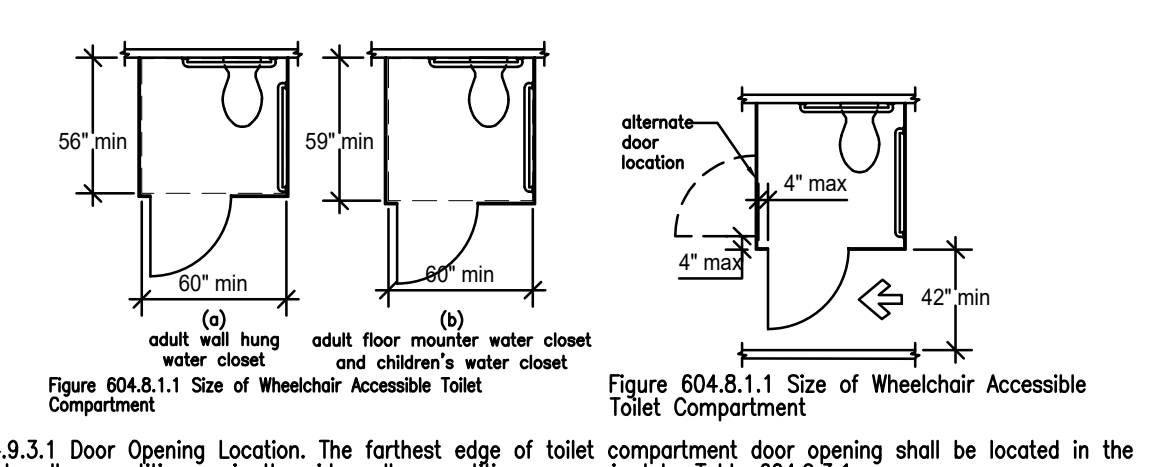


Figure 604.9.3.1 Size of Wheelchair Accessible Toilet Compartment

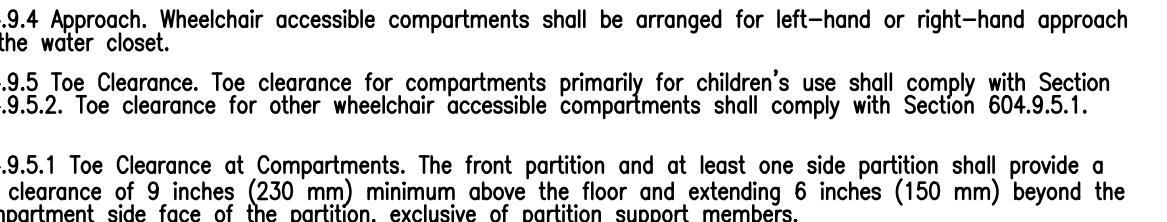


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

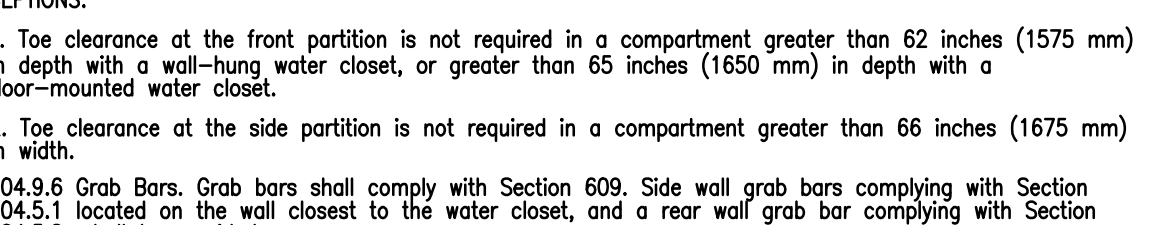


Figure 604.9.5 Wheelchair Accessible Toilet Compartment Toe Clearance

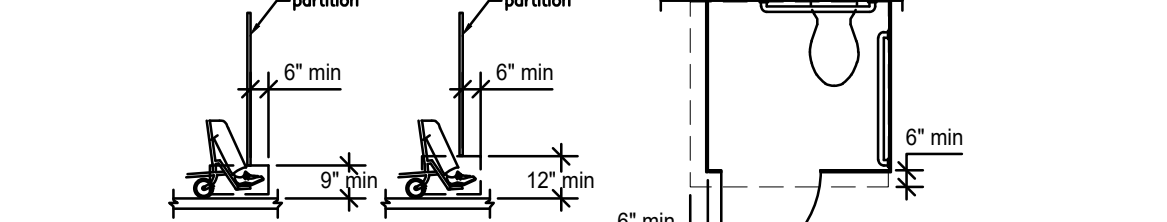


Figure 604.10.1 Ambulatory Accessible Toilet Compartment

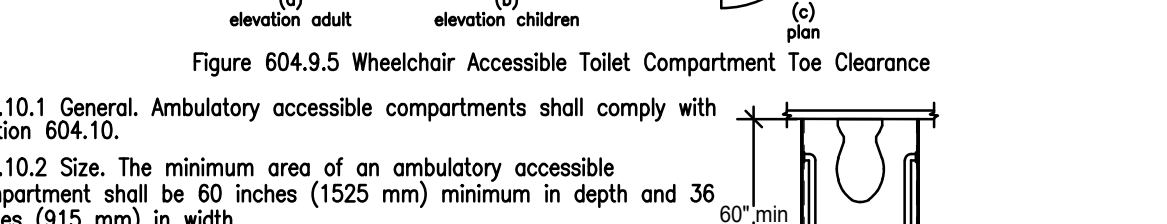


Figure 604.10.2 Size of Clearance at Water Closets

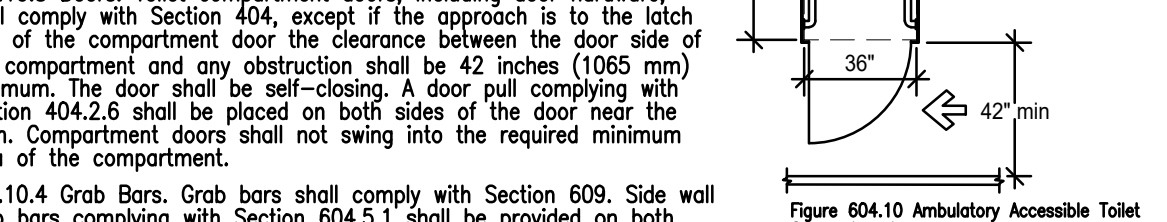


Figure 604.10.3 Doors

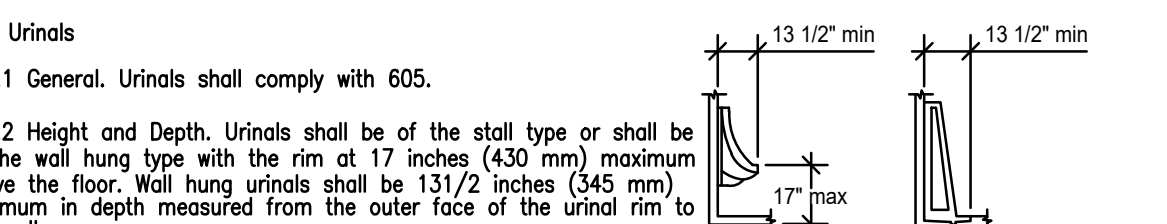


Figure 605.2 Height and Depth of Urinals

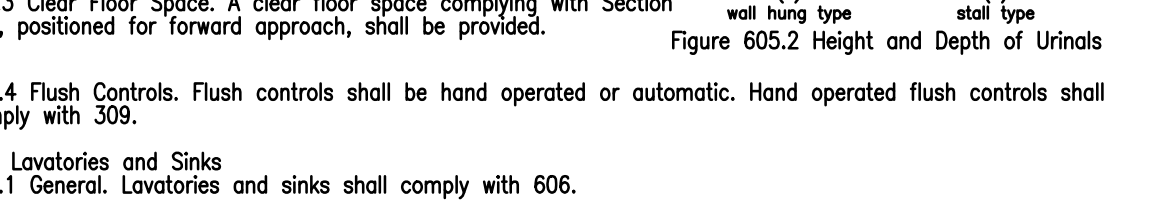


Figure 605.2.5 Character Width

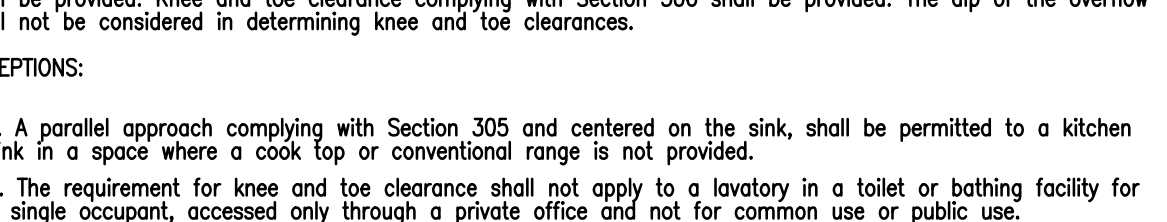


Figure 605.2.6 Stroke Width

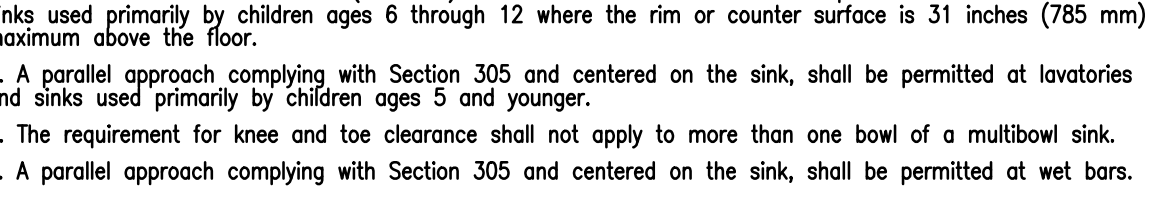


Figure 605.2.7 Character Spacing

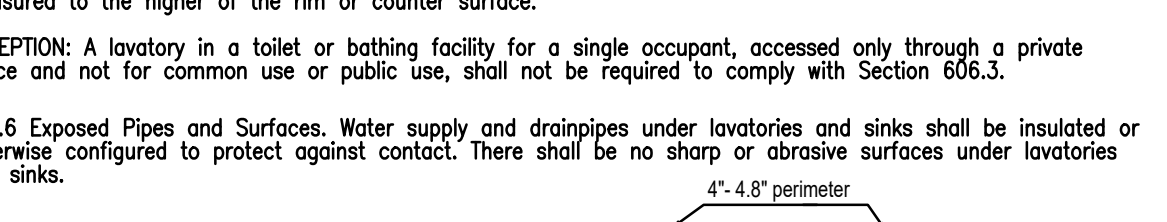


Figure 605.2.8 Finish and Contrast

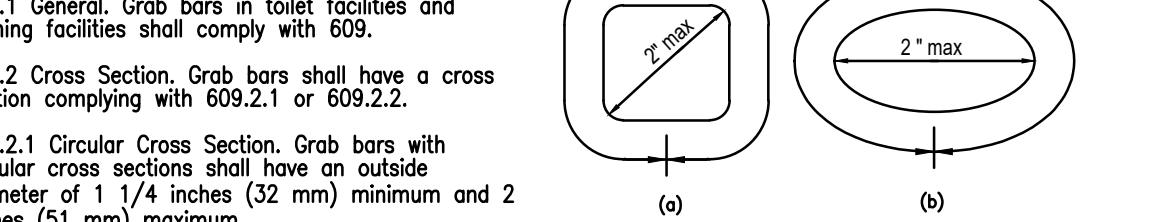
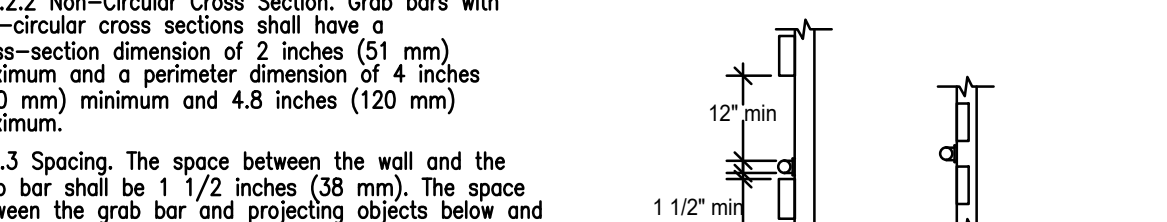
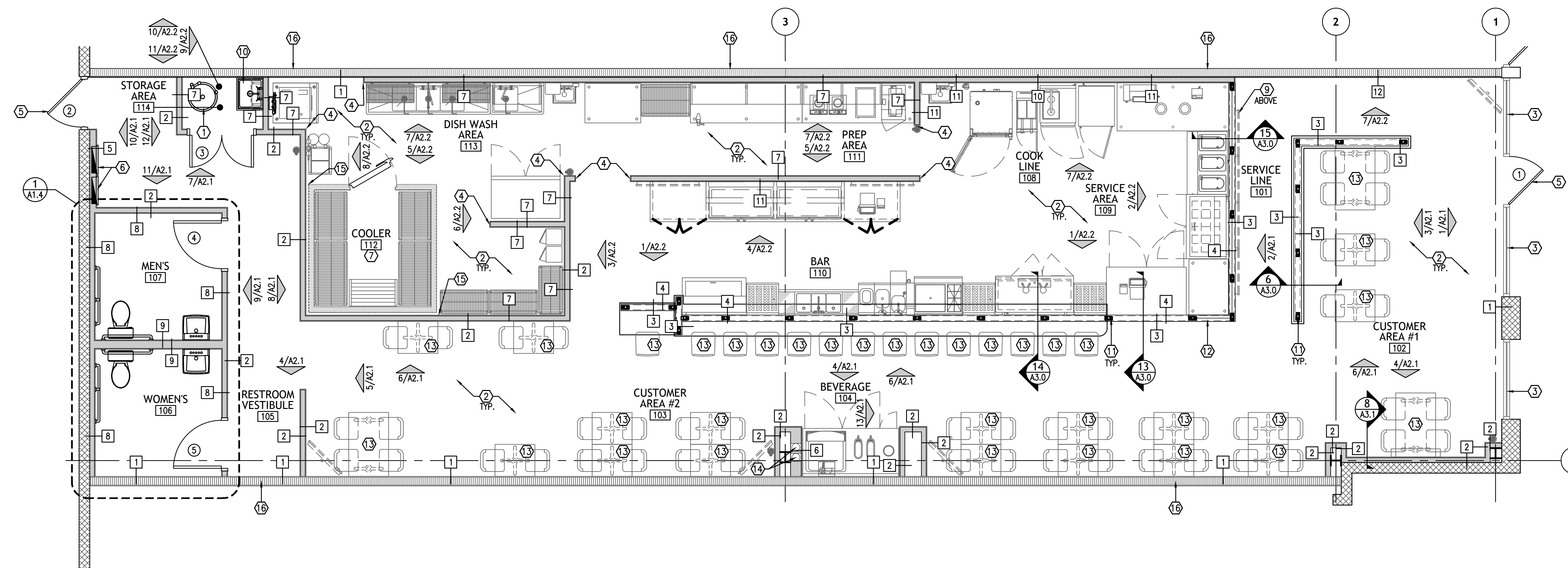
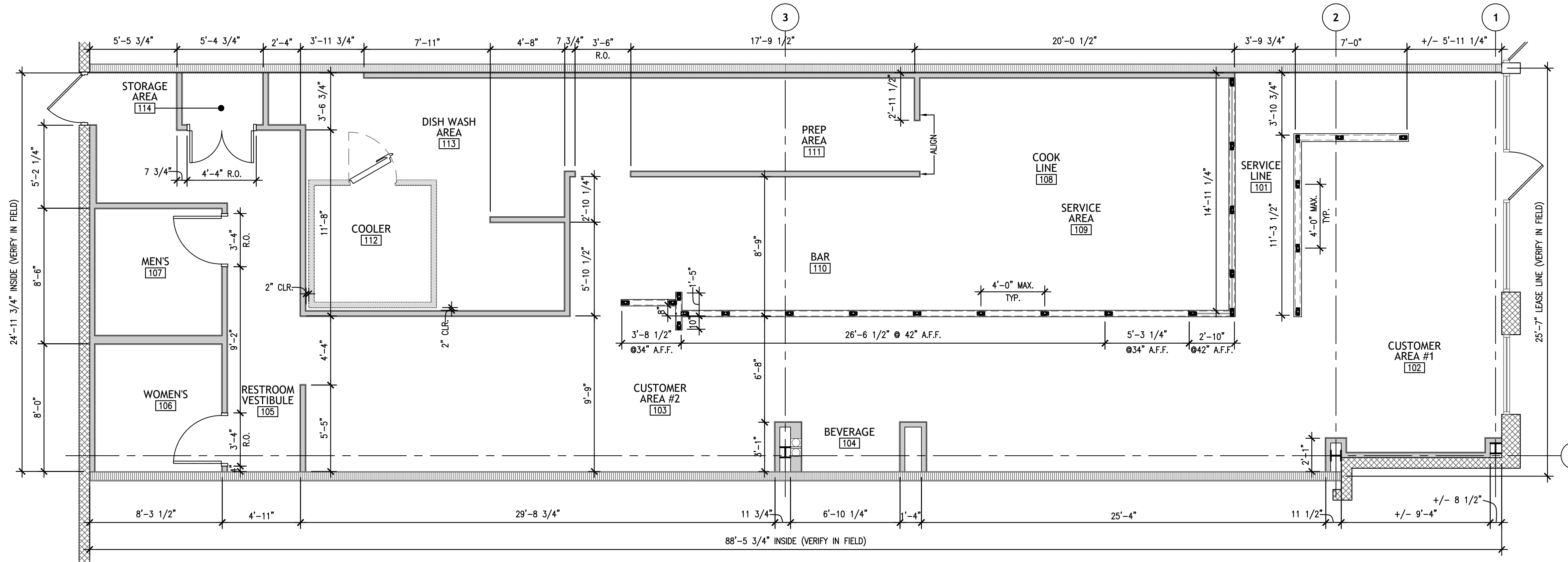


Figure 605.2.9 Height Above Floor





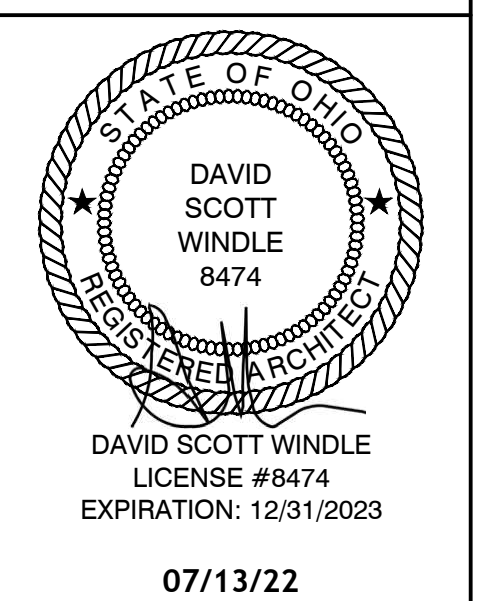


- GENERAL NOTES**
- ALL DIMENSIONS ARE SHOWN TO FACE OF STUD OR FACE OF BLOCK WALL UNLESS NOTES OTHERWISE.
  - REFER TO WALL TYPE SCHEDULE FOR ALL NEW WALLS.
  - REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
  - WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.
  - PLYWOOD BLOCKING SHALL BE INSTALLED FOR ALL WALLS HAVING EQUIPMENT SHELVES, REFER TO KITCHEN DRAWINGS.
  - REFER TO FLOOR FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES.
  - REFER TO WALL SECTIONS FOR PLACEMENT OF WATERPROOFING AT ALL WALLS WITH CEMENTITIOUS BACKER BOARD.
  - PROVIDE WOOD BLOCKING AT ALL HUNG EQUIPMENT AND RESTROOM.
  - G.C. SHALL FIELD VERIFY THE EXACT EXISTING SPACE CONDITIONS, DIMENSIONS, AND COLUMN SPACING PRIOR TO CONSTRUCTION AND INFORM ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND BETWEEN DRAWINGS AND SITE CONDITIONS. ANY CHANGES OR REWORK DUE TO UNREPORTED DIFFERENCES SHALL BE AT G.C.'S EXPENSE.
  - REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
  - REFER TO PLUMBING PLANS FOR ALL FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS LOCATIONS.
- WALL LEGEND**
- EXISTING WALL(S) TO REMAIN
  - EXISTING MASONRY WALL(S) TO REMAIN
  - NEW 3-5/8" OR 6" METAL WALLS TO 6" ABOVE CEILING @ 16" O.C. SECURE TO FLOOR PER DETAIL 16/A3.0. ATTACH TO EXISTING STRUCTURE ABOVE PER DETAIL 17/A3.0.
  - NEW WALLS WITH SOUND BATT INSULATION.
  - NEW PARTIAL HEIGHT WALLS W/ 3-5/8" METAL STUDS AT 16" O.C. SECURE TO FLOOR PER DETAIL 16/A3.0.
  - COOLER WALL(S).
- KEY NOTES:**
- WATER HEATER, REFER TO PLUMBING SHEETS.
  - REFER TO SHEETS K1.0, K1.1 FOR EQUIPMENT PLAN AND SCHEDULE.
  - EXISTING STOREFRONT WINDOWS TO REMAIN.
  - STAINLESS STEEL CORNER GUARD OR END CAP, REFER TO DETAIL 4/A3.0
  - EXISTING DOOR(S) TO REMAIN. G.C. TO VERIFY PROPER WORKING ORDER.
  - ELECTRICAL PANELS, REFER TO ELECTRICAL SHEETS.
  - WALK-IN COOLER, REFER TO SHEETS K1.0 AND K1.1.
  - NEW 1-HOUR RATED DEMISING WALL BY LANDLORD.
  - OWNER FURNISHED DIGITAL MENU BOARDS, MOUNTS FURNISHED AND INSTALLED BY VENDOR. G.C. TO COORDINATE REQUIREMENTS FOR BLOCKING. REFER TO SHEETS K1.0, K1.1 AND DETAIL 11/A3.0.
  - MOP SINK, REFER TO PLUMBING SHEETS.
  - HALF WALL SUPPORT, REFER TO DETAIL 3/A3.0.
  - FRONT COUNTER WITH OWNER FURNISHED ROLLED METAL PANELS TO FACE OF COUNTER BY G.C.
  - FURNITURE, REFER TO SHEETS K1.0, K1.1.
  - G.C. TO PROVIDE (2) 6" DIA. PVC STUBS THROUGH CEILING FOR SODA LINES, SEE DETAIL 1/A3.1.
  - STAINLESS STEEL 3" X 3" COOLER CLOSURE STRIP.
  - EXISTING FRAMING AND INSULATION TO REMAIN, G.C. TO APPLY (1) LAYER OF 5/8" TYPE "X" GYP BOARD. FIRE SEAL PER DETAIL 8/A3.0
- WALL TYPE SCHEDULE**
- | MATERIALS   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|
| FRAMING   |   |   |   |   |   |   |   |   |   |    |    |    |
| 3 5/8" METAL (25 GA. FOR FULL WALL)                   |   |   |   |   |   |   |   |   |   |    |    |    |
| 3 5/8" METAL LOW WALL (20 GA.)                        |   |   |   |   |   |   |   |   |   |    |    |    |
| 6" METAL (25 GA. FOR FULL WALL)                       |   |   |   |   |   |   |   |   |   |    |    |    |
| 6" METAL LOW WALL (20 GA.)                            |   |   |   |   |   |   |   |   |   |    |    |    |
| 8" METAL (25 GA. FOR FULL WALL)                       |   |   |   |   |   |   |   |   |   |    |    |    |
| EXISTING WALL   |   |   |   |   |   |   |   |   |   |    |    |    |
| 5/8" GYPSUM BOARD                                     |   |   |   |   |   |   |   |   |   |    |    |    |
| 5/8" GYPSUM BOARD TYPE "X"                            |   |   |   |   |   |   |   |   |   |    |    |    |
| 5/8" MOISTURE RESISTANT GYPSUM BOARD                  |   |   |   |   |   |   |   |   |   |    |    |    |
| 5/8" DUROCK TO 12" A.F.F.                             |   |   |   |   |   |   |   |   |   |    |    |    |
| 1/2" PLYWOOD  |   |   |   |   |   |   |   |   |   |    |    |    |
| WATERPROOF MEMBRANE TO 48" A.F.F. (KITCHEN SIDE ONLY) |   |   |   |   |   |   |   |   |   |    |    |    |
| WATER PROOF MEMBRANE AT 12" A.F.F.                    |   |   |   |   |   |   |   |   |   |    |    |    |
| STRUCTURAL TUBE BRACING AT LOW WALL                   |   |   |   |   |   |   |   |   |   |    |    |    |
| FIBERGLASS REINFORCEMENT PANEL                        |   |   |   |   |   |   |   |   |   |    |    |    |
| STAINLESS STEEL PANEL                                 |   |   |   |   |   |   |   |   |   |    |    |    |
- NOTE: G.C. TO PROVIDE 5/8" PLYWOOD BACKING AS DIRECTED BY OWNER IN PLACE OF 5/8" GYPSUM BOARD.  
REFER TO DETAILS 16/A3.0 AND 17/A3.0 FOR WALL CONNECTIONS.

**DIMENSIONED FLOOR PLAN**  
1/4"=1'-0" 1

**NOTED FLOOR PLAN**  
1/4"=1'-0" 2

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**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
3975 CASCADES BLVD., SPACE 23A  
KENT, OH 44240  
CLIENT: DANIEL LINSWORTH  
3717 WOODS TRAIL  
KENT, OH 44240



**OH-2193**

DATE	DESCRIPTION
07/08/12	CORPORATE REVIEW
07/13/12	PERMIT ISSUE

DATE	DESCRIPTION

SHEET TITLE:  
**DIMENSIONED AND NOTED FLOOR PLAN**

SHEET NUMBER:  
**A1.0**

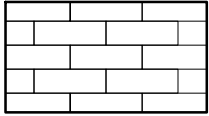
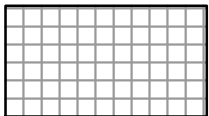
PROJECT NUMBER:  
**DBQ22008**

FINISH LEGEND (FOR REF. ONLY)						
TAG	MANUF.	DESCRIPTION	LOCATION	COLOR	FINISH	REMARKS
<b>FLOOR</b>						
F-1	SHAW	6"x48" TILE PLANK RESILIENT FLOORING	CUSTOMER AREA	TERRAIN II 04553V, 12MIL COLOR: THICKET 07008	RESILIENT TILE, SLIP RESISTANT	
F-2	DALTILE PAVERS	6" QUARRY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL	KITCHEN	RED OQ84	SMOOTH FINISH	
<b>BASE</b>						
B-1	DALTILE PAVERS	6" QUARRY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL	KITCHEN	RED OQ84	SMOOTH FINISH	
B-2	FURNISHED BY DICKEY'S	2"x6" WOOD BASE	ALL CUSTOMER AREA WALLS	WOOD BASE	2"x6" WOOD BASE PAINTED BLACK	2 COATS OF CABOT BROWN MAHOGANY STAIN AND 1 COAT OF CLEAR FINISH STAIN
B-3	DALTILE	4 1/4"x12 3/4" COVE BASE	RESTROOM	0190A34C1MOD1 P2 COVE BASE	ARCTIC WHITE 0190	
B-4	DALTILE	6" X 6" SANITARY COVE BASE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL, GROUT LINES: 1/4"	TILE WALL	5-3619TN, SC-3619TN COVE BASE CORNER	ARCTIC WHITE 0190	
<b>CEILING</b>						
C-1	USG OR APPROVED EQUAL	GYP. BD, 2x2 NON-PERFORATED LAY-IN WITH HEAVY DUTY "T" BAR GRID	CUSTOMER AREA, CORRIDOR	FLAT BACK (205) 2'X2' FISSURED	15/16" GRID-DONN HEAVY DUTY DX/DXL FLAT BLACK	REFER TO DETAIL 9/A3.0
C-2	USG OR APPROVED EQUAL	VINYL CLAD, GYP. BD, 2x4 NON-PERFORATED LAY-IN WITH HEAVY DUTY "T" BAR GRID	KITCHEN, SERVICE AREA, RESTROOMS & OFFICE	3270 CLEAN ROOM CLIMAPLUS, WHITE (50)	15/16" GRID-DONN HEAVY DUTY DX/DXL FLAT WHITE	SMOOTH AND WASHABLE. REFER TO DETAIL 9/A3.0
C-3	USG OR APPROVED EQUAL	5/8" TYPE "X" GYPSUM BOARD CEILING	SOFFITS	REFER TO RCP	P-2	

FINISH LEGEND (FOR REF. ONLY)						
TAG	MANUF.	DESCRIPTION	LOCATION	COLOR	FINISH	REMARKS
<b>WAINSCOT AND WALLS</b>						
P-1	SHERWIN WILLIAMS	SW6285- TRICORN BLACK	CUSTOMER AREA, INTERIOR DOORS & FRAMES	TRICORN BLACK	LATEX- ACRYLIC SEMI-GLOSS FINISH, 3 COATS	
P-2	BEHR PREMIUM	ULTRA PURE WHITE #2450	KITCHEN SIDE DOORS & FRAMES	ULTRA PURE WHITE	LATEX- ACRYLIC SEMI-GLOSS FINISH, 3 COATS	
WP-1	TBD	RECLAIMED WOOD SLATS	BAR LOW WALL & QUEUE WALL	RECLAIMED WOOD SLATS		2 COATS OF CABOT BROWN MAHOGANY STAIN AND 1 COAT OF CLEAR FINISH STAIN
WP-2	STANFORD SONOMA	ROLLED METAL PANEL AND DECORATIVE TRIM, ATTACH #6 METAL FINISH SCREWS	SERVICE LINE			G.C. TO INSTALL. VENDOR PROVIDED
WP-3	STAINLESS STEEL VENDOR	STAINLESS STEEL PANEL	HOOD WALL	STAINLESS STEEL	SMOOTH	REFER TO PLANS FOR LOCATION
WT-1	DALTILE	4" X 12" SUBWAY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL, GROUT LINES: 1/4"	BACK WALL	ARCTIC WHITE, 0190	SMOOTH FINISH	REFER TO PLANS FOR LOCATION
FRP	MARLITE (OR APPROVED EQUAL)	4'x10' FIBERGLASS REINFORCED PANEL	KITCHEN & KITCHEN SIDE OF PARTIAL HEIGHT SERVICE COUNTER WALL	P-100 WHITE 4'x10' FIBERGLASS REINFORCED PANEL	PEBBLE	CONTRACTOR TO PROVIDE ALL NECESSARY AND REQUIRED TRIM AND ACCESSORIES
GRAPHICS	FURNISHED BY DICKEY'S	GRAPHIC WALLPAPER	CUSTOMER AREA			FIELD VERIFY MEASUREMENTS BEFORE ORDERING.
<b>MISC.</b>						
CT-1	TBD	FURNISHED BY DICKEY'S	BAR TOP & HALF WALLS		SMOOTH FINISH, READY FOR STAIN	2 COATS OF CABOT BROWN MAHOGANY STAIN AND 1 COAT OF CLEAR FINISH STAIN

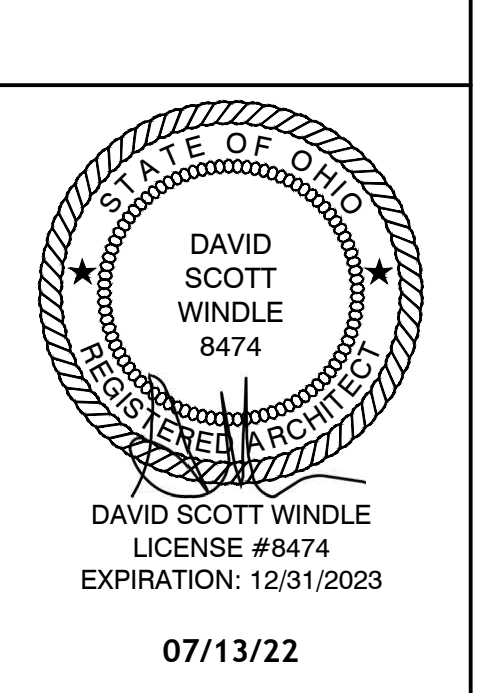
- NOTES**
- G.C. MUST VERIFY ALL FINISHES WITH TENANT PRIOR TO ORDERING AND INSTALLATION.
  - FRP & CEILING TILE SUPPLIED AND INSTALLED BY G.C.
  - VERIFY ALL FINISHES WITH DICKEY'S C.M. PRIOR TO INSTALLING.

- GENERAL NOTES**
- REFER TO FLOOR FINISH PLAN
  - REFER TO WALL SECTIONS FOR PLACEMENT OF WATERPROOFING AT ALL WALLS WITH CEMENTITIOUS BACKER BOARD.
  - PROVIDE WOOD BLOCKING AT ALL HUNG EQUIPMENT AND RESTROOM.
  - REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
  - REFER TO KITCHEN PLANS FOR ALL FLOOR DRAINS/FLOOR SINKS/TRENCH DRAINS LOCATIONS.
  - ALL RECESSED FIXTURE TRIMS TO BE PAINTED TO MATCH ADJACENT CEILING.
  - ALL SURFACE MOUNTED EMERGENCY FIXTURES TO BE PAINTED TO MATCH ADJACENT CEILING.
  - ALL A/C GRILLS, SPEAKERS, ETC. TO BE PAINTED TO MATCH ADJACENT CEILING.
- KEY NOTES:**
- ALUMINUM THRESHOLD, REFER TO DETAIL 5/A3.0.
  - MOP SINK, REFER TO PLUMBING SHEETS.
  - FLOOR SINK, REFER TO DETAIL 1/A3.0 AND PLUMBING SHEETS.
  - HUB DRAIN, REFER TO PLUMBING SHEETS.
  - FLOOR DRAIN, REFER TO PLUMBING SHEETS.
  - STARTING POINT OF FLOOR.
  - PREFABRICATED WALK-IN COOLER BY VENDOR.
  - LETTER "D" INTERIOR LIGHTED SIGN. REFER TO DETAIL 12/A3.0 AND ELECTRICAL SHEETS..
  - FOOT RAIL, REFER TO 6/A3.1.
  - TRANSITION STRIP. REFER TO DETAIL 2/A1.1.

	4"x48" TILE PLANK RESILIENT FLOORING (F-1)
	6" QUARRY TILE (F-2)

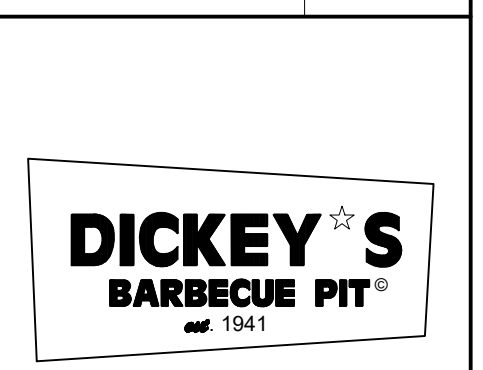
ARCHITECT:  
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CORPORATE:  
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 DALLAS, TEXAS 75205  
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**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
 3975 CASCADES BLVD., SPACE 23A  
 KENT, OH 44240

CLIENT: DANIEL LINSWORTH  
 3717 WOODS TRAIL  
 KENT, OH 44240



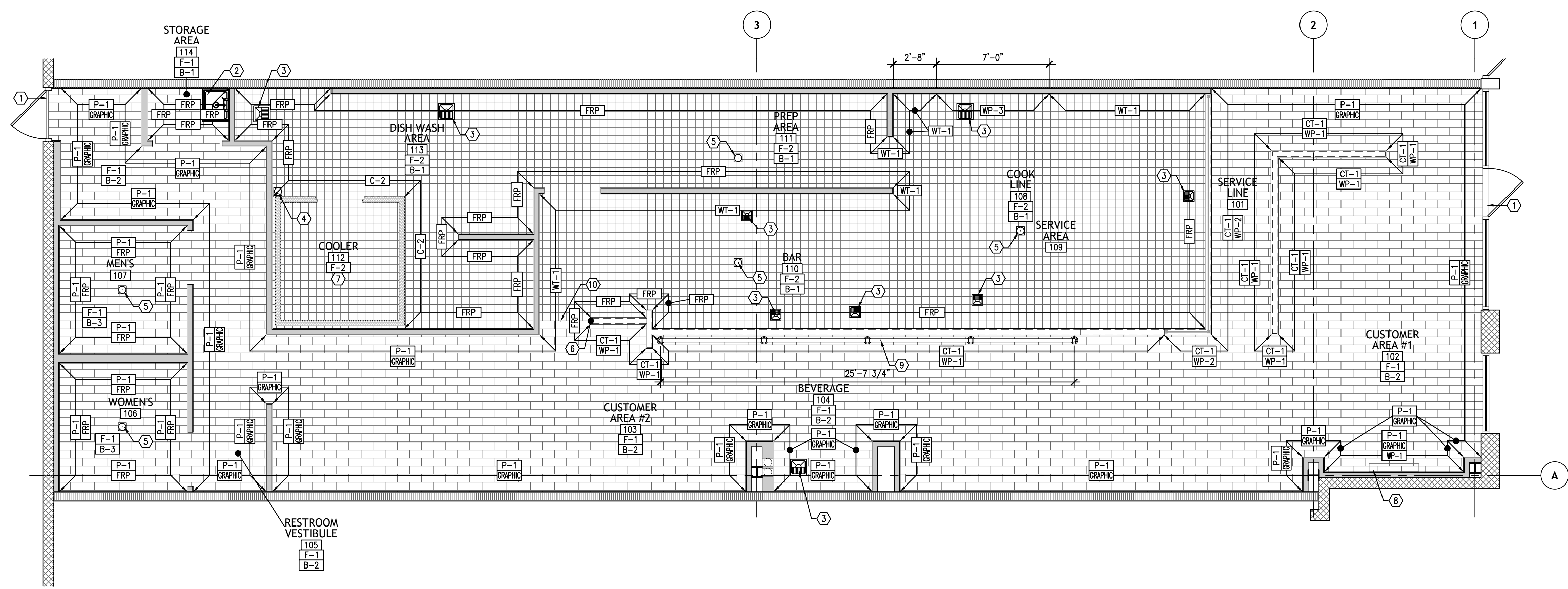
DATE	DESCRIPTION
07/08/22	CORPORATE REVIEW
07/13/22	PERMIT ISSUE

DATE	DESCRIPTION

SHEET TITLE:  
**FLOOR FINISH PLAN AND SCHEDULES**

SHEET NUMBER:  
**A1.1**

ISSUE PROJECT NUMBER:  
**DBQ22008**



FLOOR FINISH PLAN 1/4"=1'-0" 1

FLOOR TRANSITION DETAIL 6"=1'-0" 2

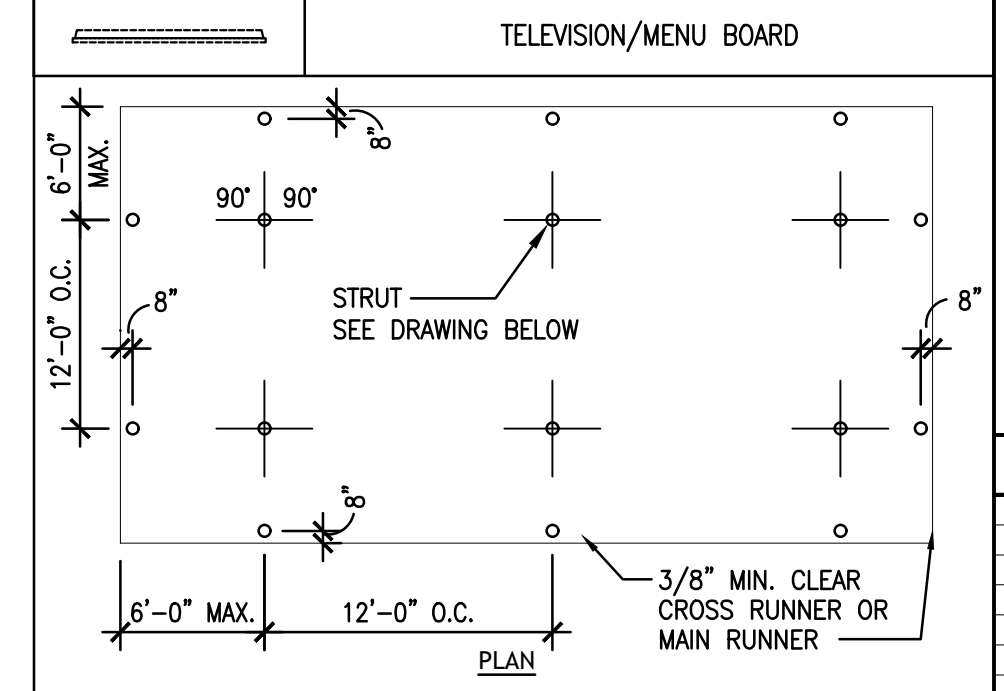




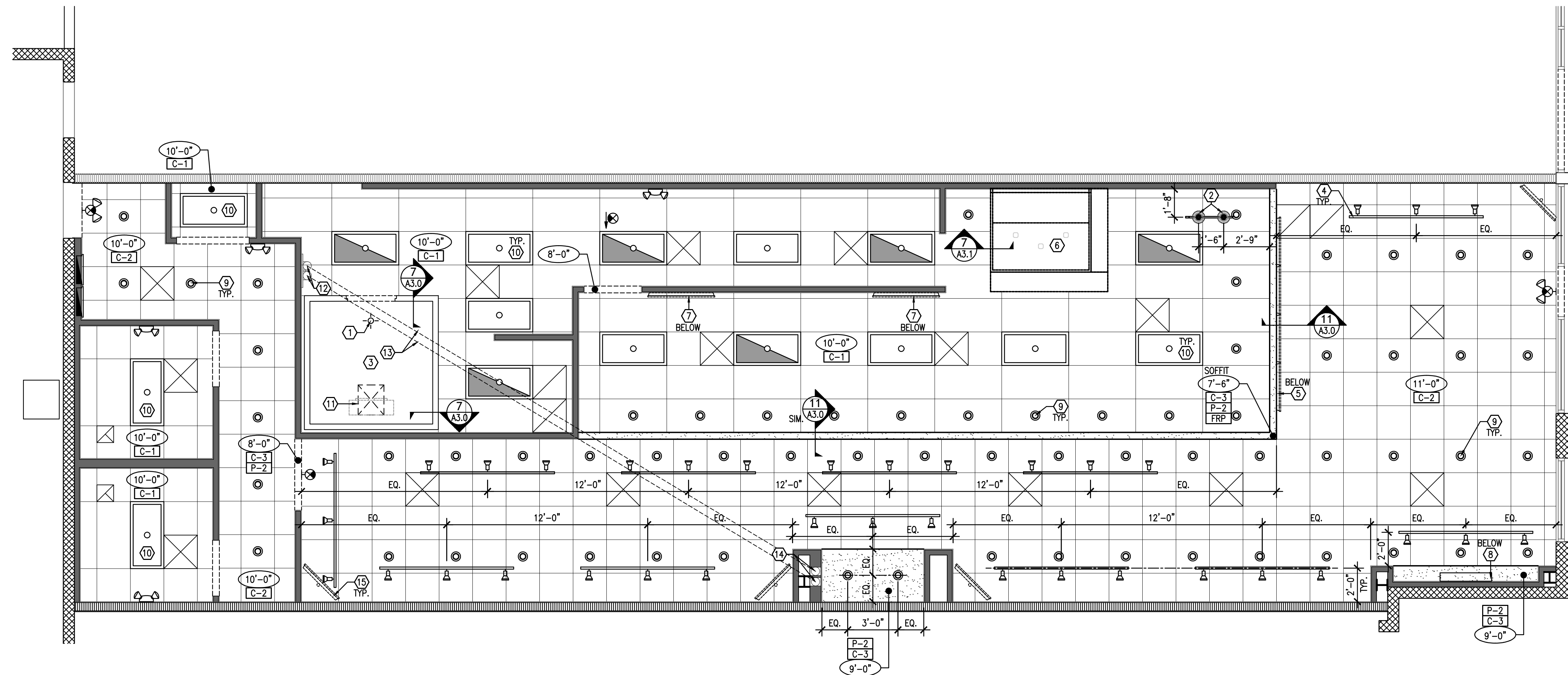
FINISH LEGEND (FOR REF. ONLY)						
TAG	MANUF.	DESCRIPTION	LOCATION	COLOR	FINISH	REMARKS
<b>CEILING</b>						
C-1	USG OR APPROVED EQUAL	GYP. BD, 2x2 NON-PERFORATED LAY-IN WITH HEAVY DUTY "T" BAR GRID	CUSTOMER AREA, CORRIDOR	FLAT BACK (205) 2'X2' FISSURED	15/16" GRID: DOWN HEAVY DUTY DX/DXL FLAT BLACK	REFER TO DETAIL 9/A3.0
C-2	USG OR APPROVED EQUAL	VINYL CLAD, GYP. BD, 2x4 NON-PERFORATED LAY-IN WITH HEAVY DUTY "T" BAR GRID	KITCHEN, SERVICE AREA, RESTROOMS & OFFICE	3270 CLEAN ROOM CLIMAPLUS, WHITE (50)	15/16" GRID: DOWN HEAVY DUTY DX/DXL FLAT WHITE	SMOOTH AND WASHABLE. REFER TO DETAIL 9/A3.0
C-3	USG OR APPROVED EQUAL	5/8" TYPE "X" GYPSUM BOARD CEILING	SOFFITS	REFER TO RCP	P-2	
<b>WAINSCOT AND WALLS</b>						
P-1	SHERWIN WILLIAMS	SW6285- TRICORN BLACK	CUSTOMER AREA, INTERIOR DOORS & FRAMES	TRICORN BLACK	LATEX- ACRYLIC SEMI-GLOSS FINISH, 3 COATS	
P-2	BEHR PREMIUM	ULTRA PURE WHITE #2450	KITCHEN SIDE DOORS & FRAMES	ULTRA PURE WHITE	LATEX- ACRYLIC SEMI-GLOSS FINISH, 3 COATS	

GENERAL NOTES	
1	ALL RECESSED FIXTURE TRIMS TO BE PAINTED TO MATCH ADJACENT CEILING.
2	ALL SURFACE MOUNTED EMERGENCY FIXTURES TO BE PAINTED TO MATCH ADJACENT CEILING.
3	ALL A/C GRILLS, SPEAKERS, ETC. TO BE PAINTED TO MATCH ADJACENT CEILING.
4	GENERAL CONTRACTOR SHALL LOCATE ALL EXISTING POST-TENSIONING STRANDS IN EITHER DIRECTION PRIOR TO INSTALL OF ANCHORS. IT IS IMPERATIVE THAT NO STRANDS BE DAMAGED BY THE USE OF ANCHORS. PENETRATION OF ANCHORS INTO SLAB SHALL NOT EXCEED 1 1/2".
5	REFER TO ELECTRICAL FOR ALL LIGHT FIXTURES.
<b>KEY NOTES:</b>	
1	LIGHT FIXTURE IN COOLER, REFER TO ELECTRICAL.
2	WARMING LIGHT, REFER TO K1.0, K1.1 AND ELECTRICAL SHEETS, VERIFY HEIGHT WITH OWNER.
3	NO CEILING ABOVE COOLER.
4	TRACK LIGHTS, REFER TO ELECTRICAL SHEETS.
5	MENU MONITOR BOARD (40" TV'S), REFER TO DETAIL 11/A3.0 AND ELECTRICAL SHEETS. MOUNTS PROVIDED AND INSTALLED BY VENDOR.
6	NEW MECHANICAL HOOD, REFER TO MECHANICAL SHEETS.
7	WALL MOUNTED 55" TELEVISION, REFER TO DETAIL 8/A3.0 AND ELECTRICAL SHEETS. PROVIDED BY OWNER AND INSTALLED BY G.C.
8	DICKEY'S "D" SIGN BELOW, REFER TO DETAIL 12/A3.0 AND ELECTRICAL SHEETS. VERIFY LOCATION WITH OWNER.
9	RECESSED LIGHT FIXTURE CENTERED IN CEILING TILE, TYPICAL (U.N.O.).
10	NEW LIGHT FIXTURE, REFER TO ELECTRICAL SHEETS.
11	COOLER MOUNTED COMPRESSOR, REFER TO MECHANICAL SHEETS.
12	G.C. TO PROVIDE (2) 6" DIA. PVC STUBS THROUGH CEILING FOR SODA LINES, SEE DETAIL 1/A3.1.
13	NON INSULATED BUNDLED SYRUP, REFRIGERANT & CO2 LINES TO BEVERAGE STATION ABOVE CEILING. VENDOR FURNISHED AND INSTALLED.
14	G.C. TO PROVIDE (2) 6" DIA. PVC CHASES WITH SWEEPS FOR BUNDLED SYRUP, REFRIGERANT & CO2 LINES, SEE DETAIL 2/A3.1.
15	POLE MOUNTED 40" TELEVISION, REFER TO DETAIL 9/A3.1 AND ELECTRICAL SHEETS. PROVIDED BY OWNER AND INSTALLED BY G.C.

LIGHT FIXTURE LEGEND	
	2x4 LED FIXTURE, REFER TO ELECTRICAL SHEETS
	RECESSED CAN LIGHT, REFER TO ELECTRICAL SHEETS
	1x4 LED FIXTURE, REFER TO ELECTRICAL SHEETS
	TRACK LIGHT MOUNTED TO CEILING, REFER TO ELECTRICAL SHEETS
	EXIT SIGN, REFER TO ELECTRICAL SHEETS
	EMERGENCY LIGHT, REFER TO ELECTRICAL SHEETS
	EMERGENCY LIGHT AND SIGN COMBO, REFER TO ELECTRICAL SHEETS
	SUPPLY DIFFUSER, REFER TO MECHANICAL SHEETS
	RETURN GRILL, REFER TO MECHANICAL SHEETS
	EXHAUST GRILL, REFER TO MECHANICAL SHEETS



- SUSPENDED CEILING NOTES:**
- (ALL HANGERS TO BE #8 GALV. WIRE AT 2'-0" O.C. IF CEILING SYSTEMS ARE NOTE CONNECTED TO PARTITIONS)
- PROVIDE LATERAL SUPPORT WITH NO.12 GA. WIRES SPAYED IN 4 DIRECTIONS, 90° APART. CONNECT AT MAIN RUNNER WITH 2'-0" OF CROSSRUNNER AND TO STRUCTURE ABOVE AT ANGLE NOT TO EXCEED 45 DEGREES FROM PLANE OF CEILING. THESE LATERAL SUPPORTS TO BE 12'-0" O.C. WITH FIRST POINT 4'-0" FROM EACH WALL.
  - ALLOWANCE TO BE PROVIDED FOR LATERAL MOVEMENT OF SYSTEM. MAIN AND CROSS RUNNERS MAYBE ATTACHED TO ADJACENT WALLS WITH CLEARANCE BETWEEN WALL AND RUNNER AT REMAINING 2 WALLS. LIGHT FIXTURES RECESSED NOT OVER 56 LBS. AND PENDANT NOT OVER 20 LBS. MAY BE POSITIVELY ATTACHED TO CEILING SYSTEM RUNNERS WITH SCREWS OR BOLTS.
  - AIR DIFFUSERS NOT OVER 20 LBS. MAY BE POSITIVELY ATTACHED TO CEILING SYSTEM RUNNERS WITH SCREWS OR BOLTS.
  - AIR DIFFUSERS NOT OVER 30 LBS. RECEIVING NO EXTRA LOAD FROM DUCTWORK MAY BE POSITIVELY ATTACHED TO CEILING WITH SCREWS OR BOLTS. LIGHTING FIXTURES, FURNISH AND INSTALL COMPLETE WITH LAMP BALLASTS AND REQUIRED MOUNTING HARDWARE. PRIOR TO ORDERING FIXTURES, VERIFY MOUNTING METHODS AND FINISHES. ALL FLOURESCENT FIXTURES MOUNTED IN "T-BAR" CEILING TO BE INDEPENDENTLY SUSPENDED WITH 2 #10 STEEL WIRES DIAGONALLY. INSTALLATIONS IN FIRE-RATED AREAS TO BEDONE ACCORDING TO CODE.
  - CONTRACTOR TO PROVIDE COMPRESSION UNIT STRUT AT 12" O.C.



REFLECTED CEILING PLAN 1/4"=1'-0" 1

TYPICAL, SUSPENDED CEILING DIAGRAMS 1/8"=1'-0" 2

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STATE OF OHIO  
REGISTERED ARCHITECT  
DAVID SCOTT WINDLE  
8474  
DAVID SCOTT WINDLE  
LICENSE #8474  
EXPIRATION: 12/31/2023  
07/13/22

**DICKEY'S BBQ PIT**  
CASCADES OF BRIMFIELD  
3975 CASCADES BLVD., SPACE 23A  
KENT, OH 44240  
CLIENT: DANIEL LINSWORTH  
3717 WOODS TRAIL  
KENT, OH 44240

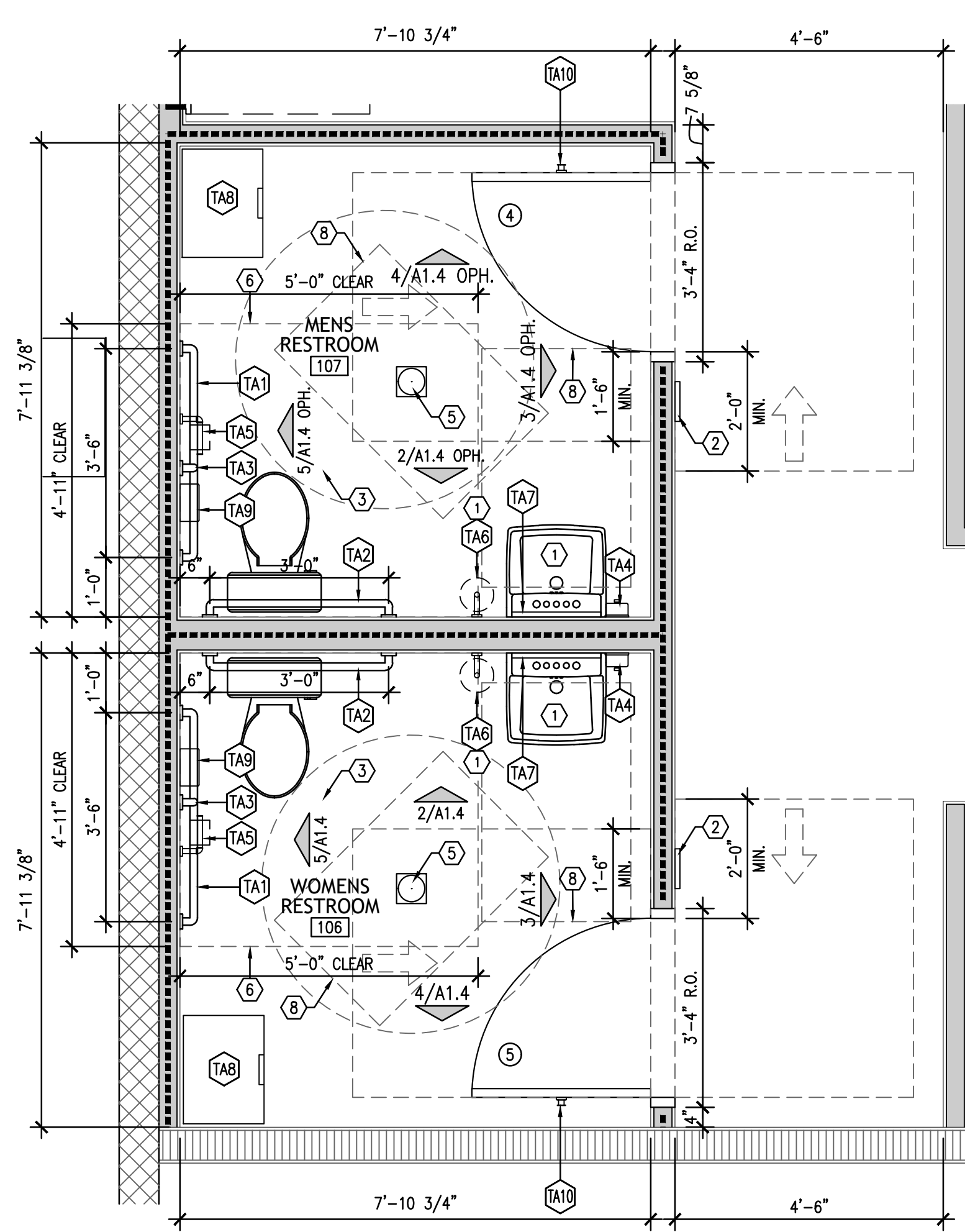
**DICKEY'S BARBECUE PIT**  
1941

OH-2193  
DATE: 07/08/22 DESCRIPTION: CORPORATE REVIEW  
07/13/22 PERMIT ISSUE

SHEET TITLE:  
**REFLECTED CEILING PLAN AND SCHEDULES**

SHEET NUMBER:  
**A1.3**

DS4 PROJECT NUMBER:  
**DBQ22008**



**GENERAL NOTES**

- ALL DIMENSIONS ARE SHOWN TO FACE OF STUD UNLESS NOTED OTHERWISE.
- REFER TO FINISH SCHEDULE A1.1 AND DETAILS FOR APPLIED FINISHES.
- PROVIDE SOLID WOOD BLOCKING IN WALL SPACE TO ENSURE ALL FIXTURES AND ACCESSORY SECURELY FASTENED.
- REFERENCE A0.2 AND A0.3 FOR ALL MOUNTING HEIGHTS, AS PER ADA REQUIREMENTS.
- PAPER TOWEL AND SOAP DISPENSERS INSTALLED BY CONTRACTOR.

**KEY NOTES**

- PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT/SHELVES, REFER TO 6/A1.4.
- INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN, REFER TO A0.3.
- 5'-0" DIA. CLEAR FLOOR SPACE.
- WRAP INSULATE DRAIN PIPING
- FLOOR DRAIN, REFER TO PLUMBING.
- 60" X 59" CLEAR FLOOR PER ADA CLEARANCE SPACE.
- 1x4 WOOD CHAMFERED TRIM, RE: 7/A1.4.
- 30" X 48" CLEAR FLOOR SPACE.

**TOILET ACCESSORY SCHEDULE**

TAG	ITEM	DESCRIPTION
TA1	REAR GRAB BAR	BOBRICK, MODEL: B5806.99, 42" LONG, 1 1/2" DIA. STAINLESS STEEL CONCEALED
TA2	SIDE GRAB BAR	BOBRICK, MODEL: B5806.99, 36" LONG, 1 1/2" DIA. STAINLESS STEEL CONCEALED
TA3	VERTICAL GRAB BAR	BOBRICK, MODEL: B5806.99, 18" LONG, 1 1/2" DIA. STAINLESS STEEL CONCEALED
TA4	LIQUID SOAP DISPENSER	KIMBERLEY CLARK, MODEL: 92145, BLACK
TA5	TOILET PAPER HOLDER	STANFORD SONOMA, MODEL: CUSTOM, BLACK IRON
TA6	PAPER TOWEL HOLDER	STANFORD SONOMA, MODEL: CUSTOM, BLACK IRON
TA7	MIRROR	BRADLEY, MODEL: 780-1836, WALL MOUNT, STAINLESS STEEL FRAME
TA8	TRASH RECEPTACLE	RUBBERMAID, MODEL: 190199, 24 GAL. METAL FRONT, STEP-ON WASTE BIN
TA9	SAN NAPKIN DISPOSAL	BOBRICK, MODEL: B-270, SURFACE MOUNTED
TA10	COAT HOOK	BOBRICK, MODEL: B-76717, STAINLESS STEEL, HEAVY DUTY

(SEE SHEET A0.1 FINISH SCHEDULE)

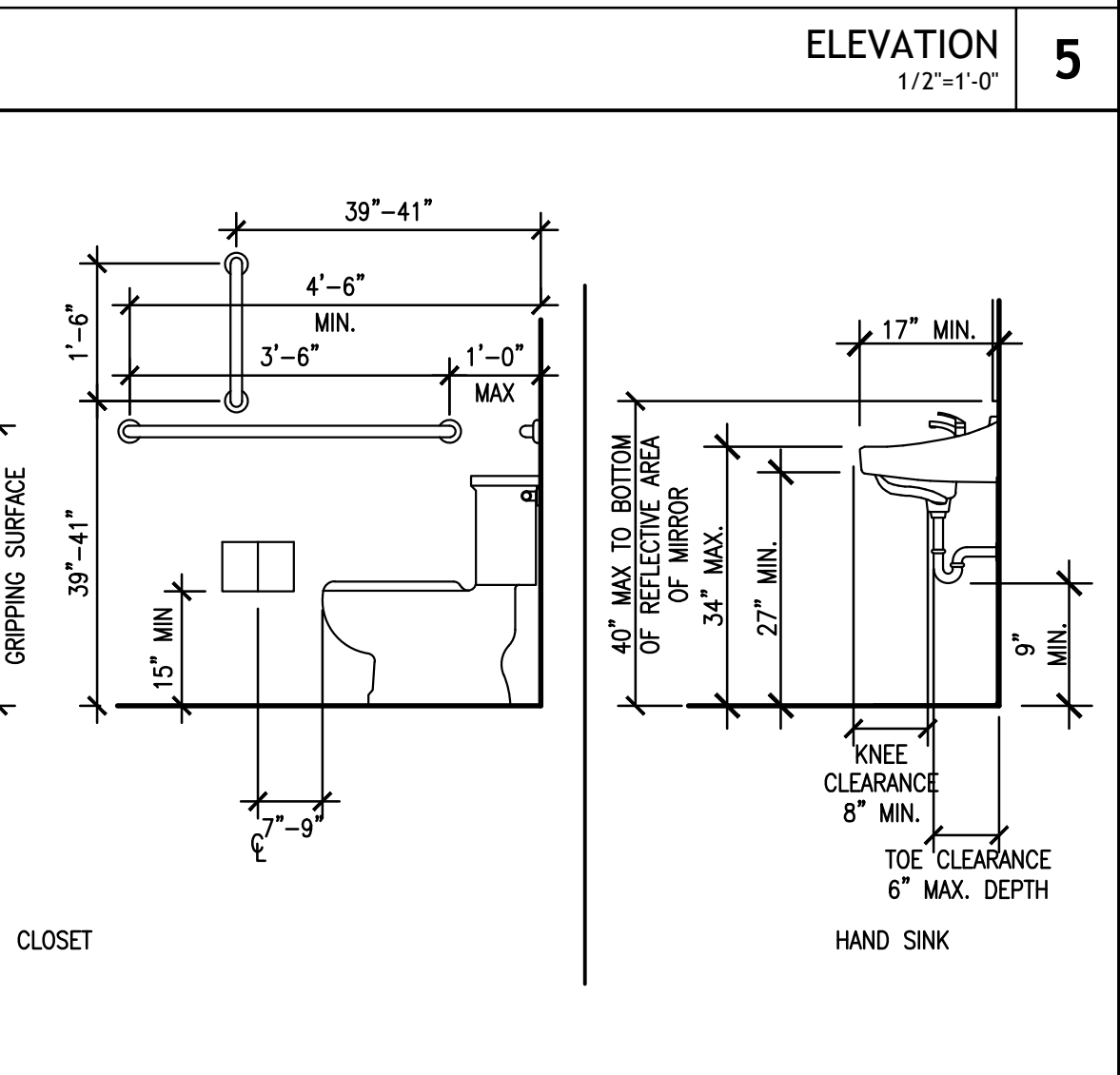
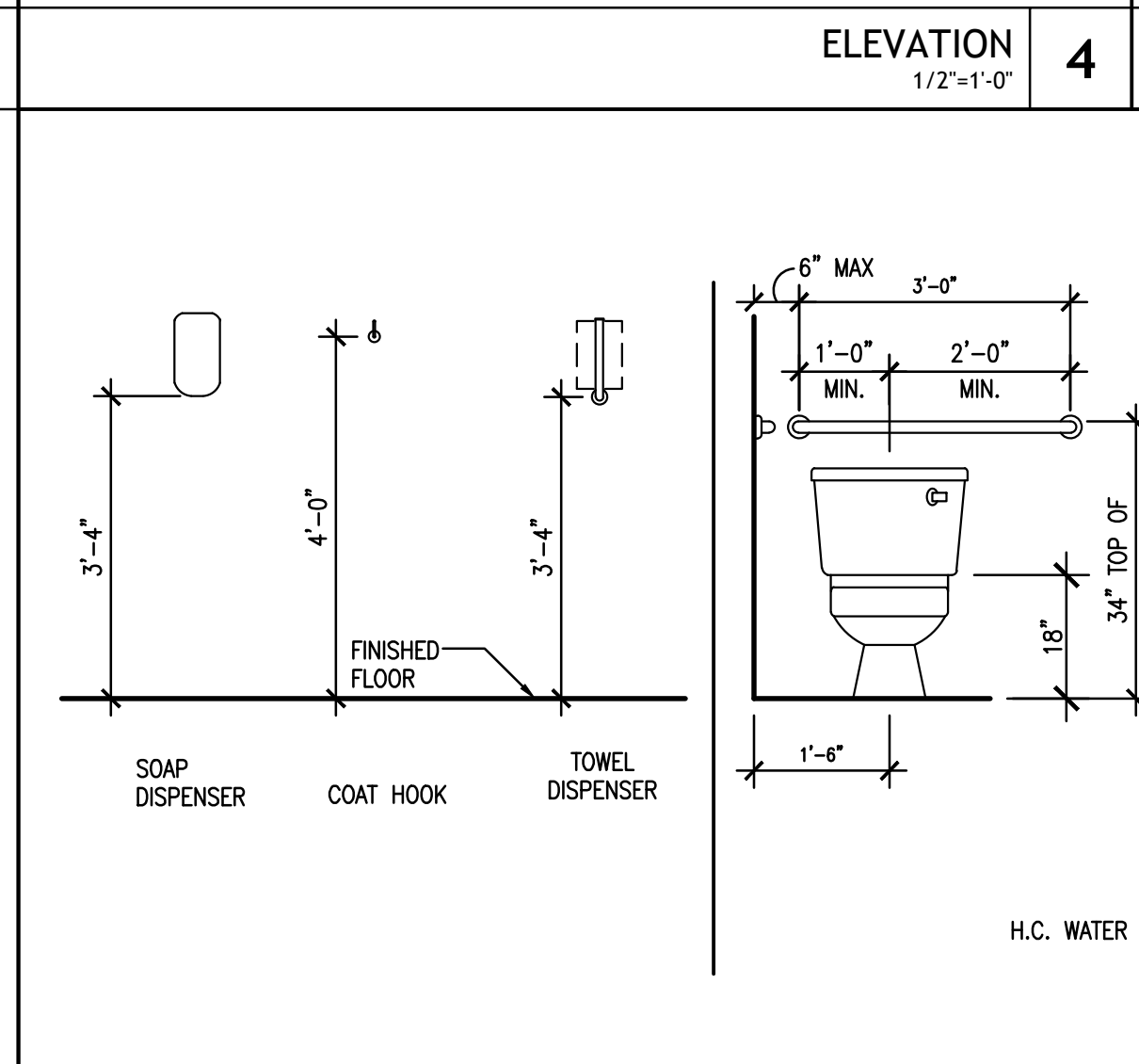
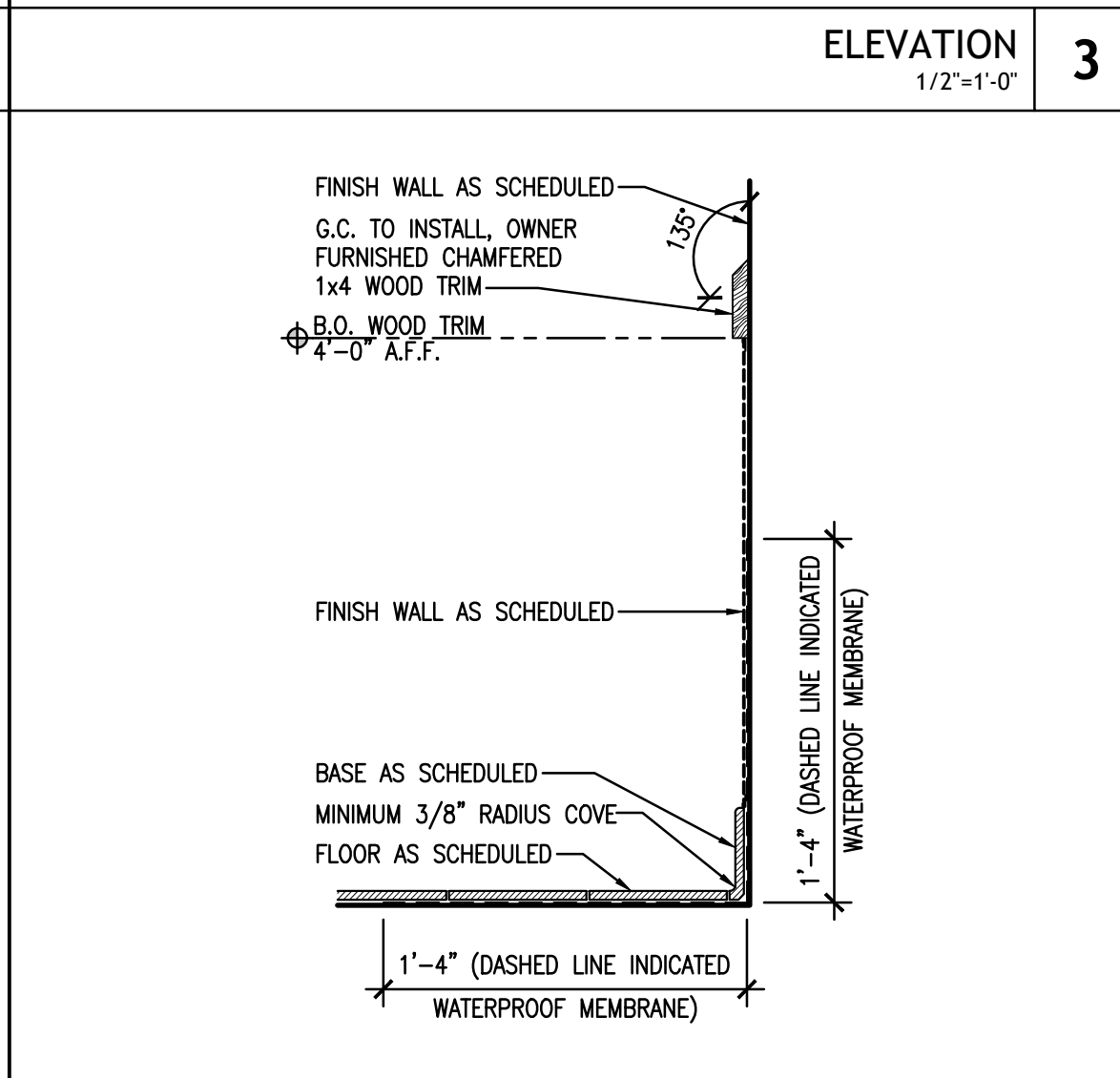
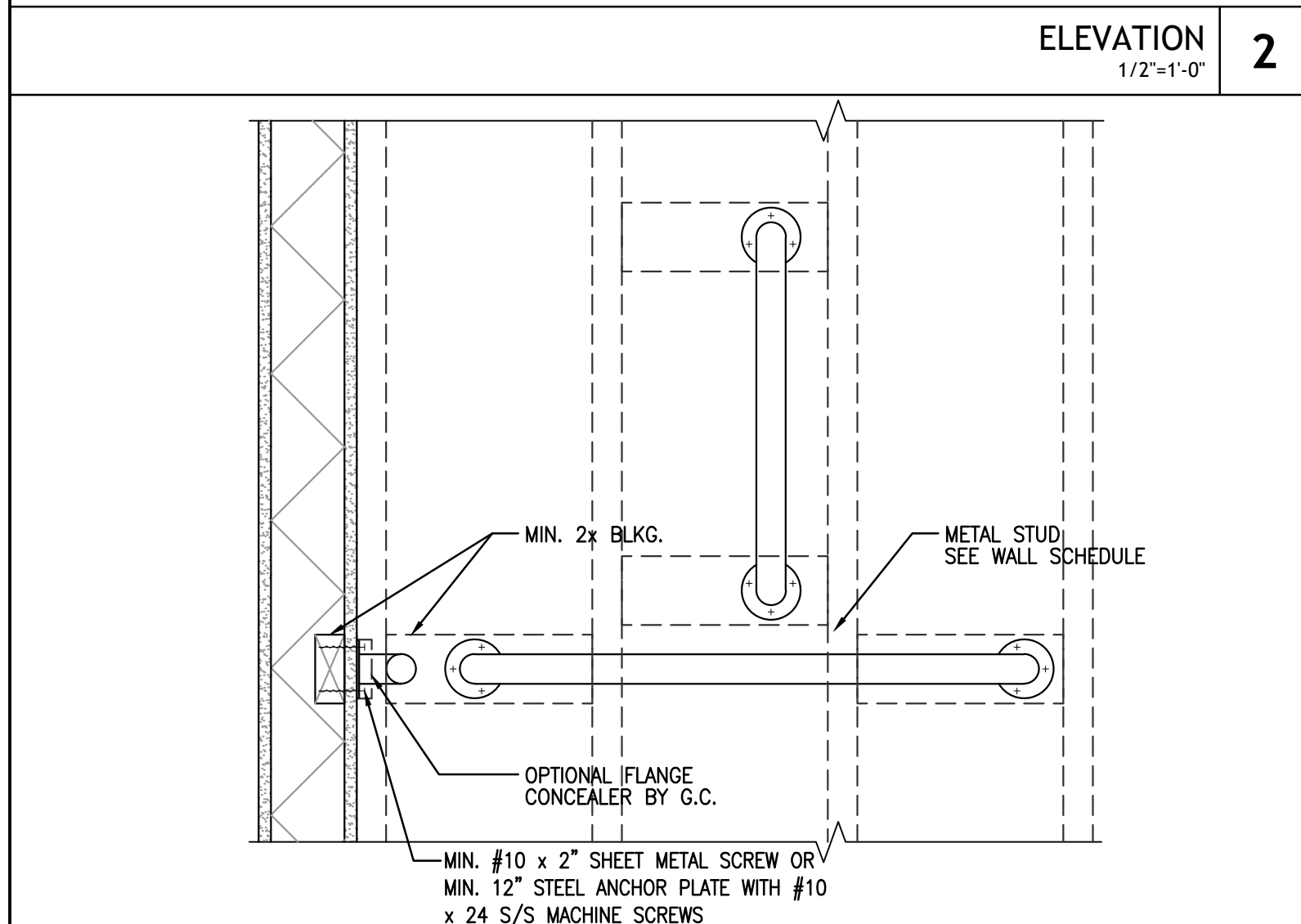
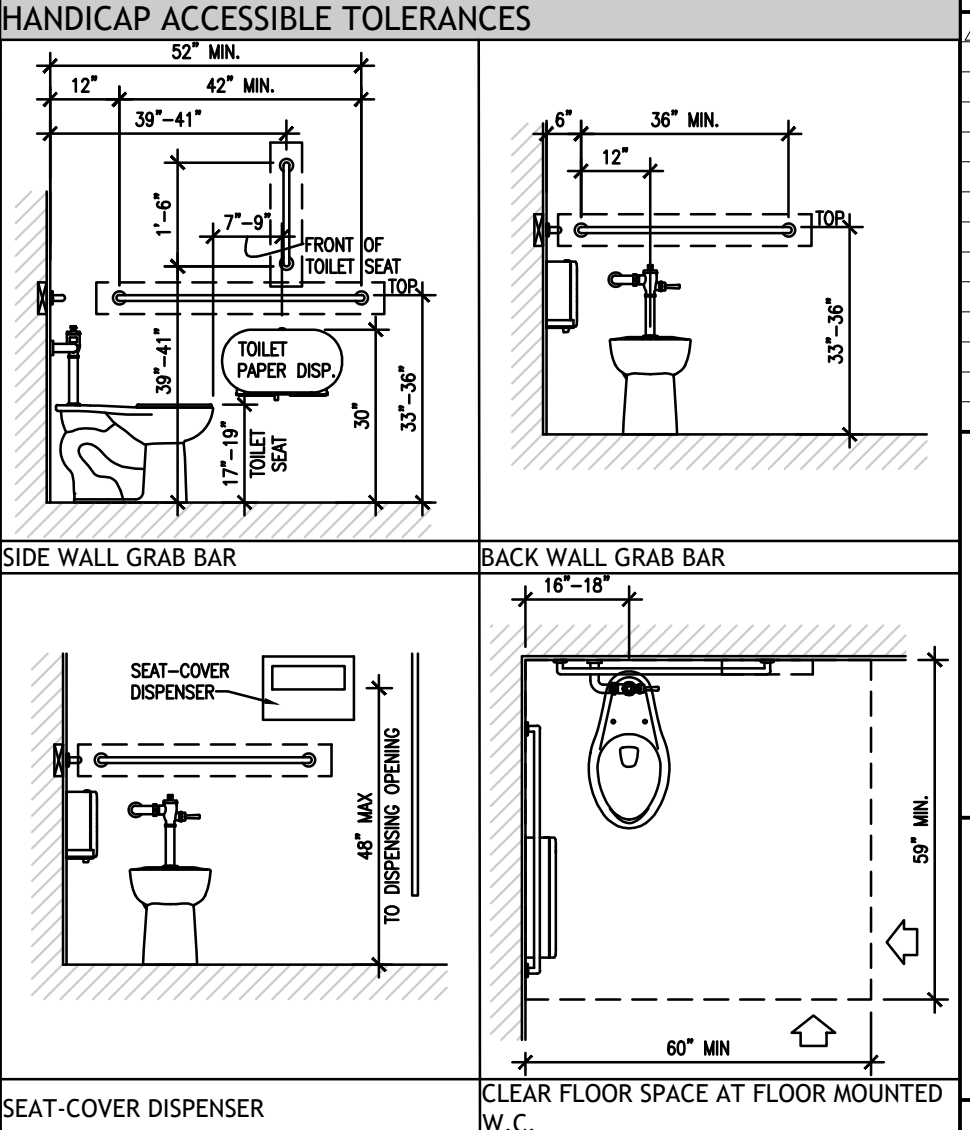
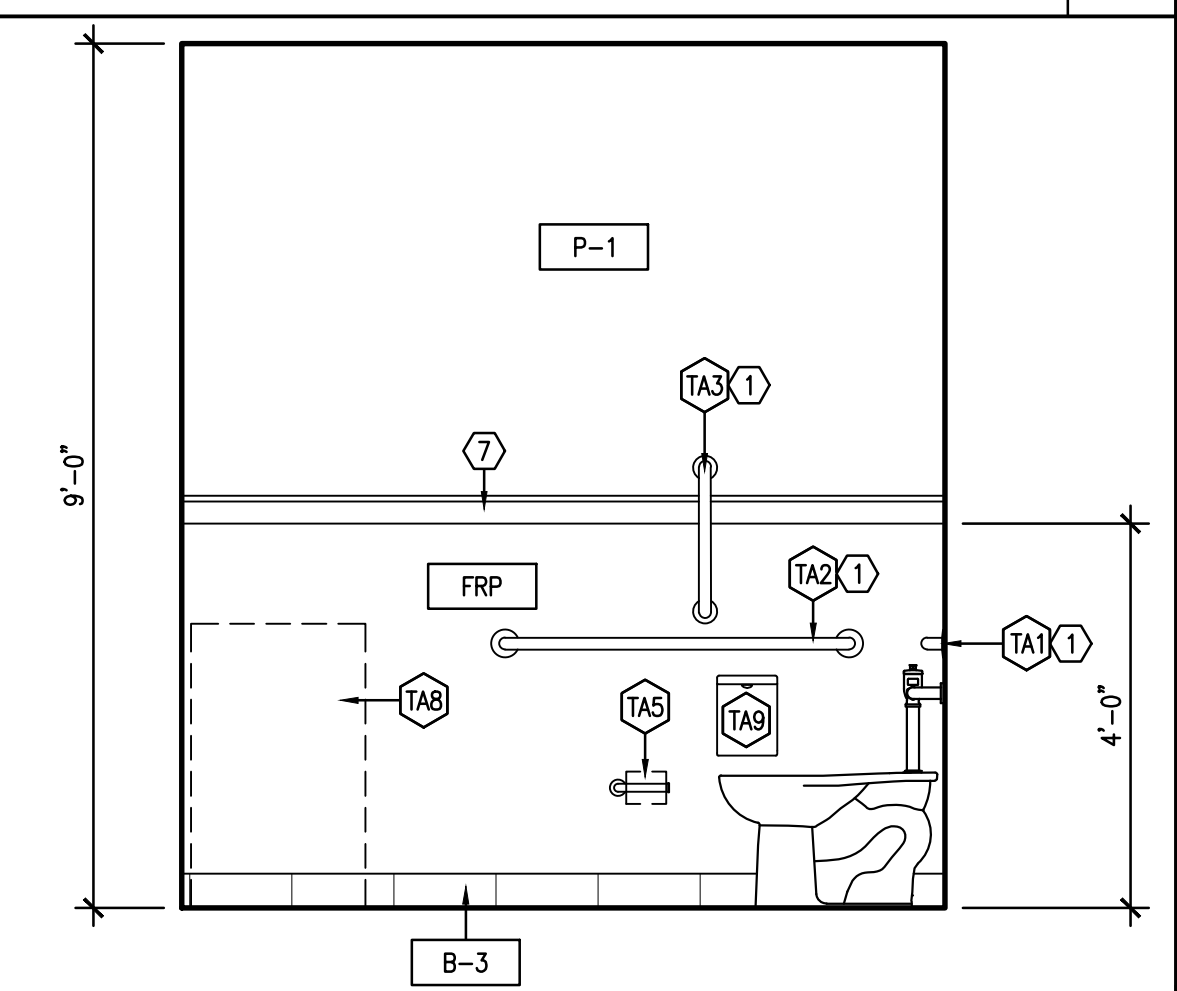
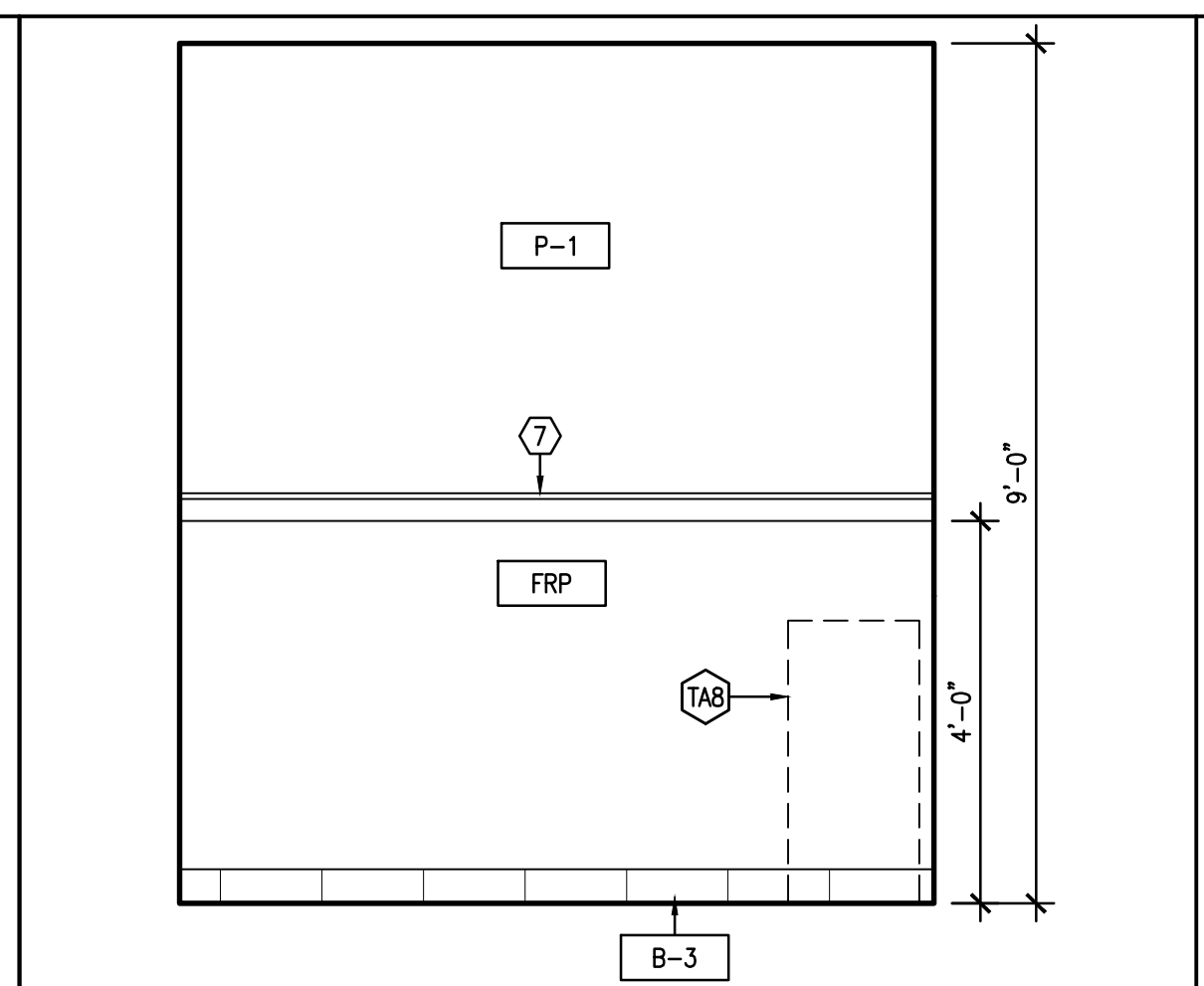
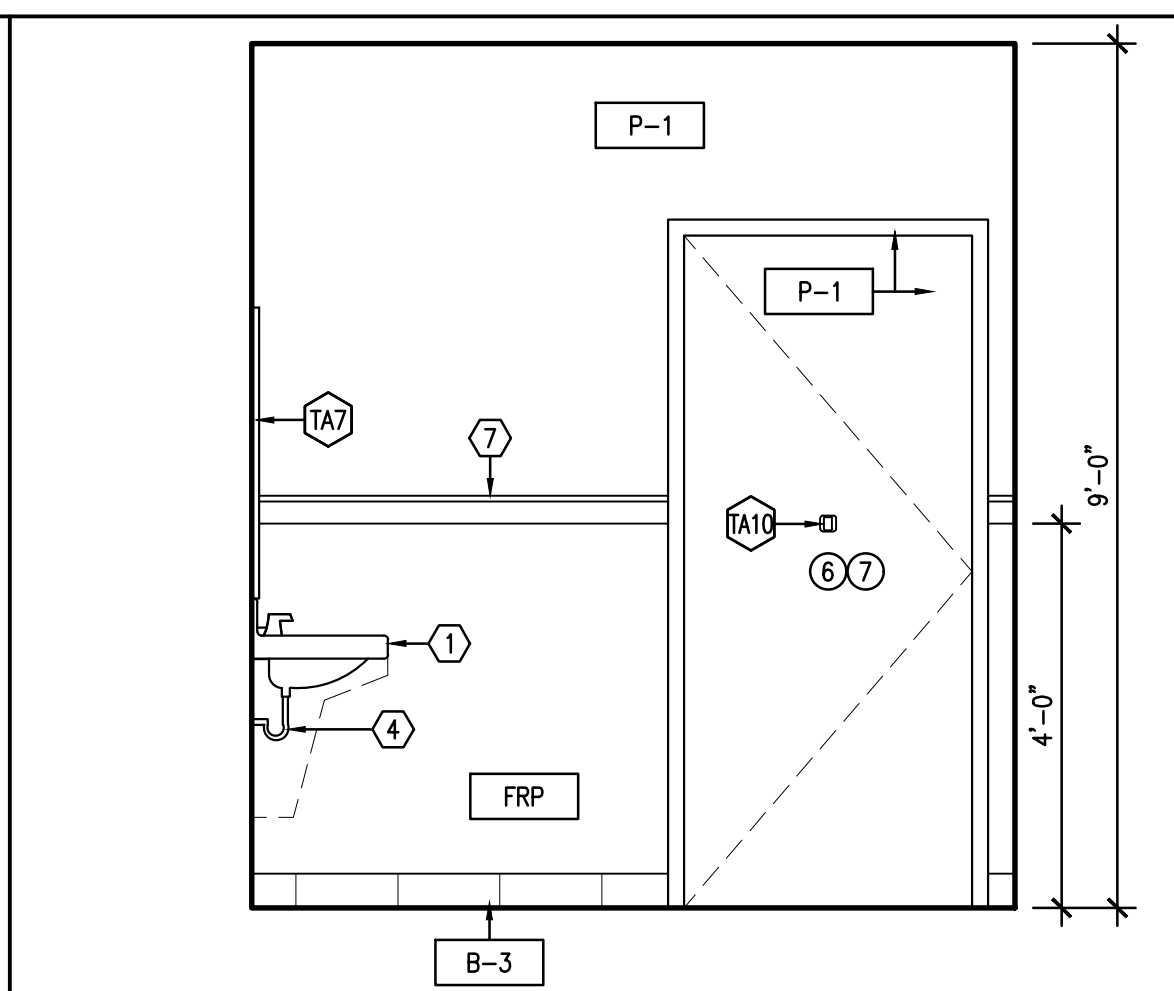
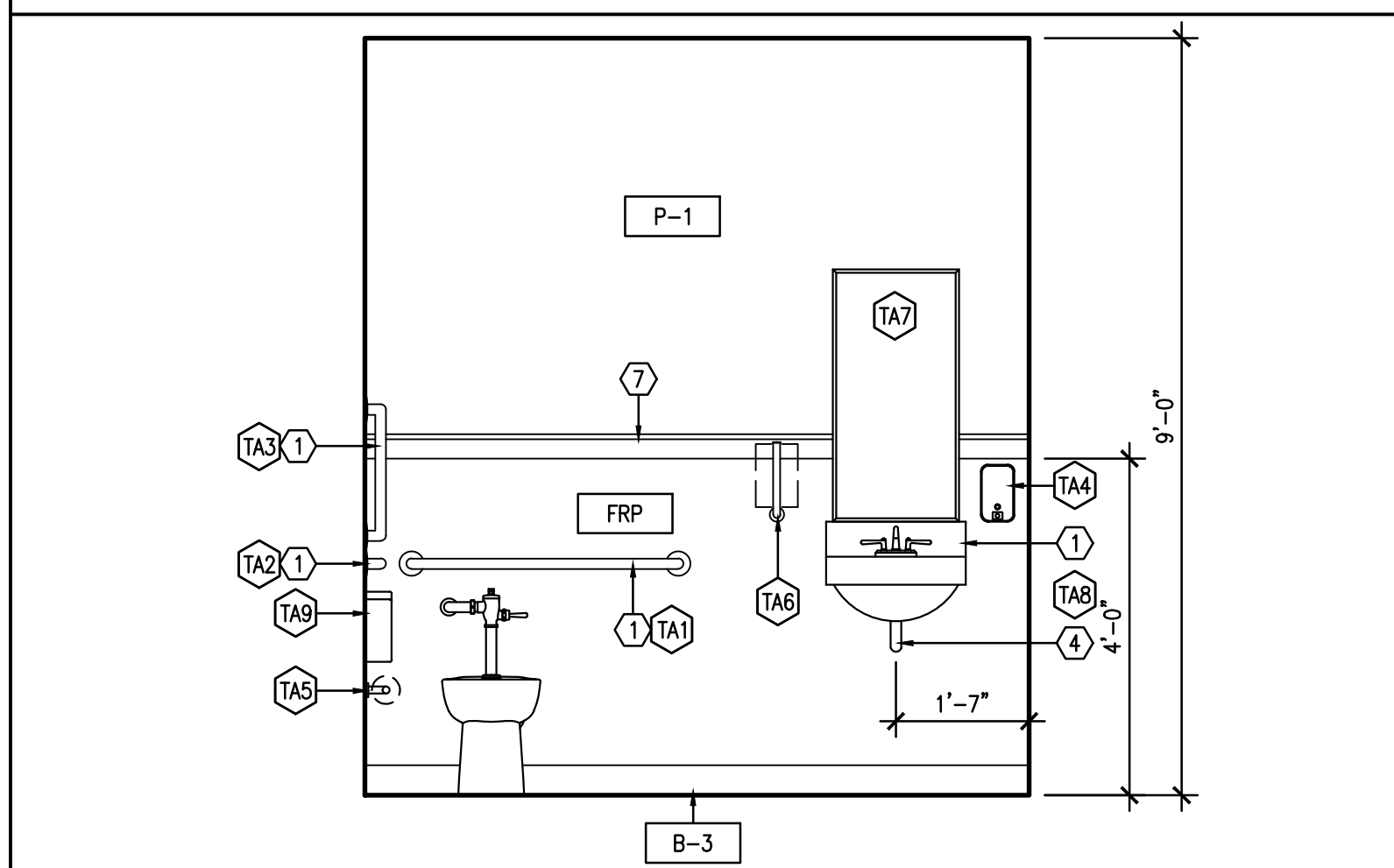
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 8474  
 DAVID SCOTT WINDLE  
 LICENSE #8474  
 EXPIRATION: 12/31/2023  
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\*\*NOTE: ALL FIXTURE AND CLEAR DIMENSIONS ARE FROM FINISH FACE U.N.O.

ENLARGED RESTROOM PLAN 1  
 1/2"=1'-0"



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**CASCADES OF BRIMFIELD**  
 3975 CASCADES BLVD., SPACE 23A  
 KENT, OH 44240

CLIENT: DANIEL LINSWORTH  
 3717 WOODS TRAIL  
 KENT, OH 44240



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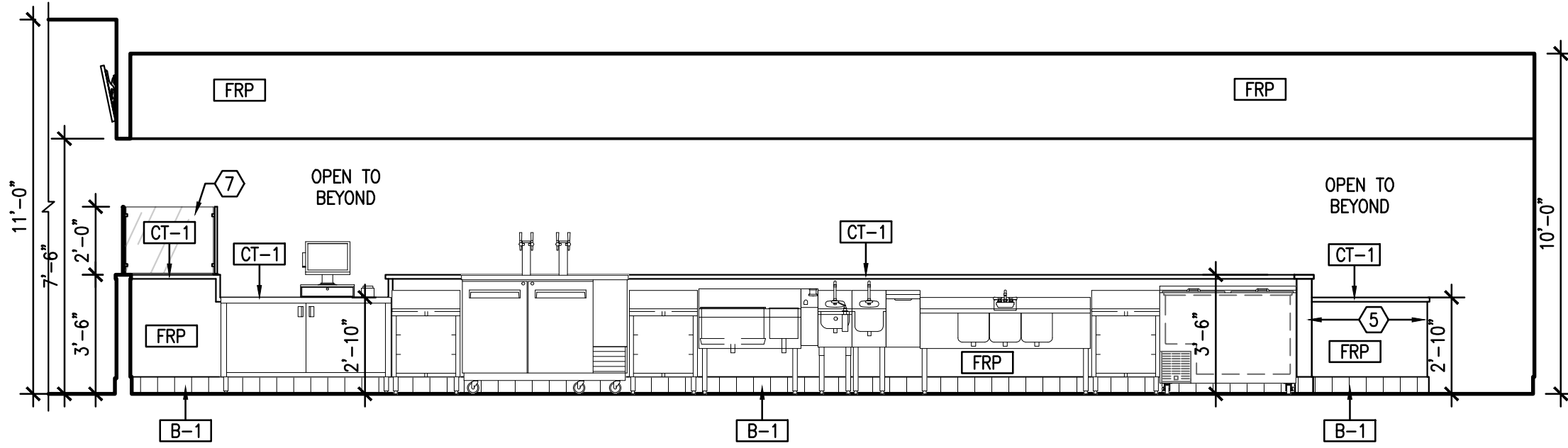
SHEET TITLE:  
**ENLARGED FLOOR PLAN AND ELEVATIONS**

SHEET NUMBER:  
**A1.4**

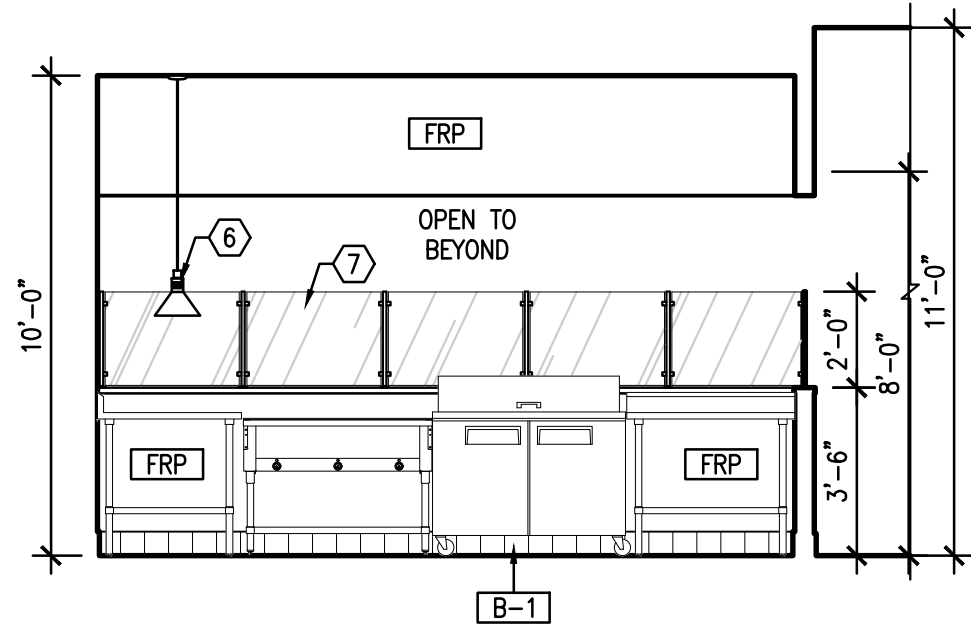
054 PROJECT NUMBER:  
**DBQ22008**



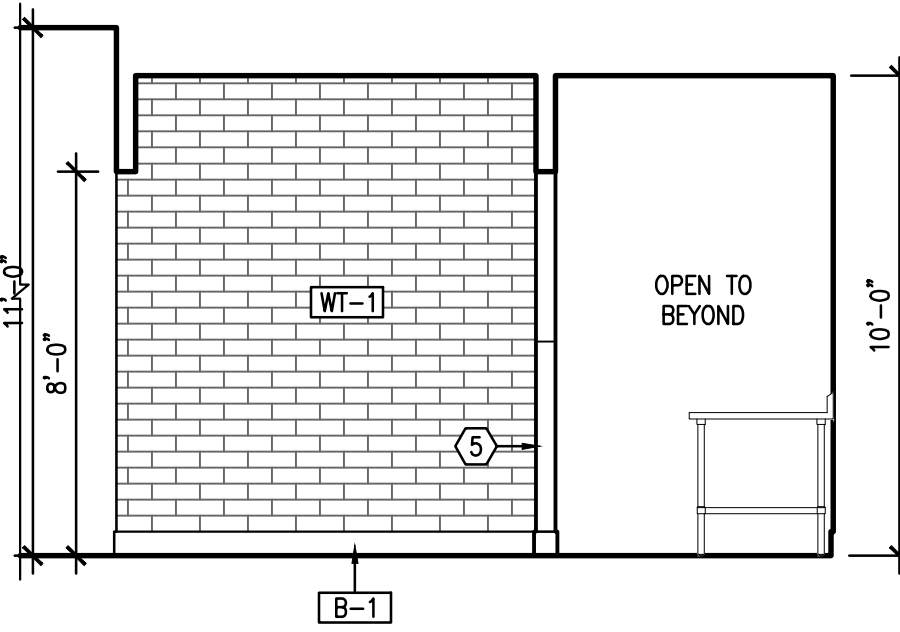




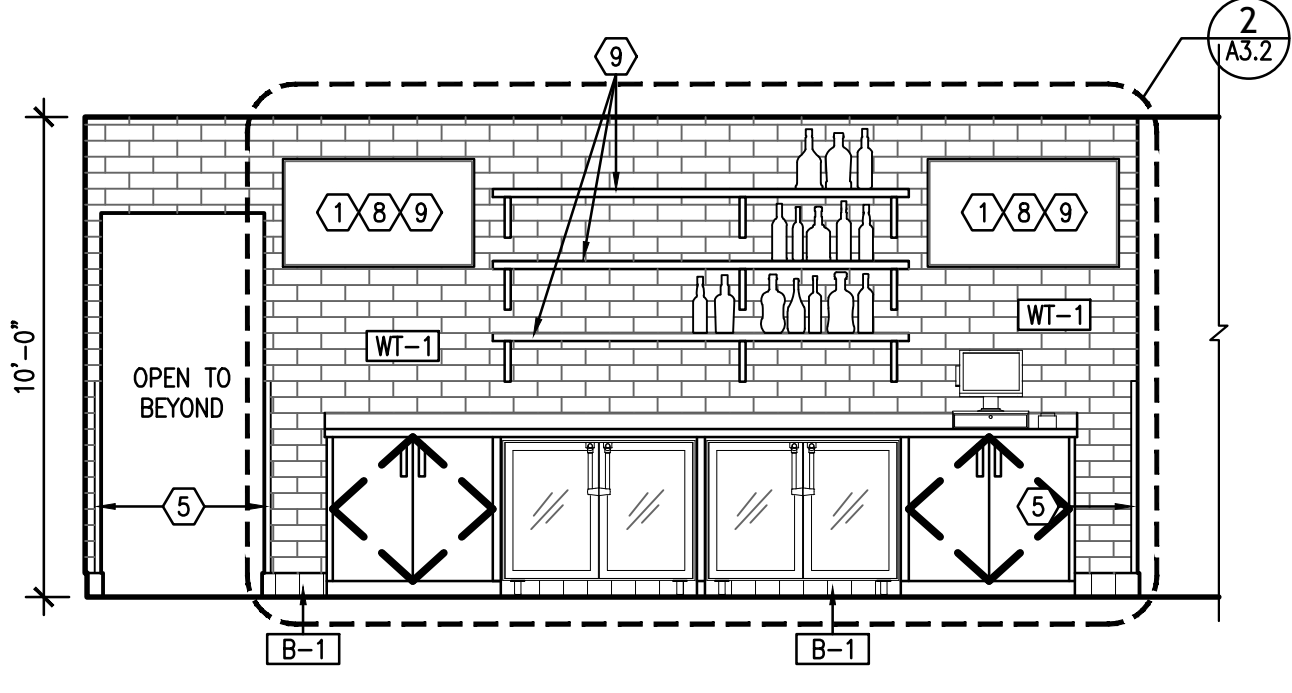
ELEVATION 1  
1/4"=1'-0"



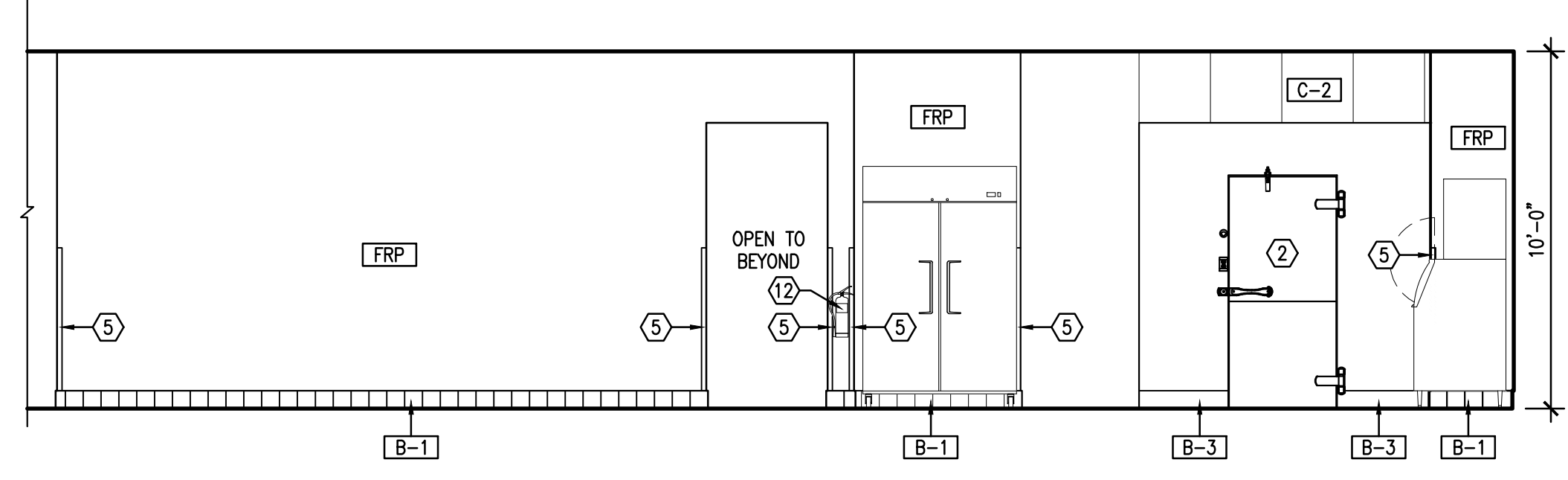
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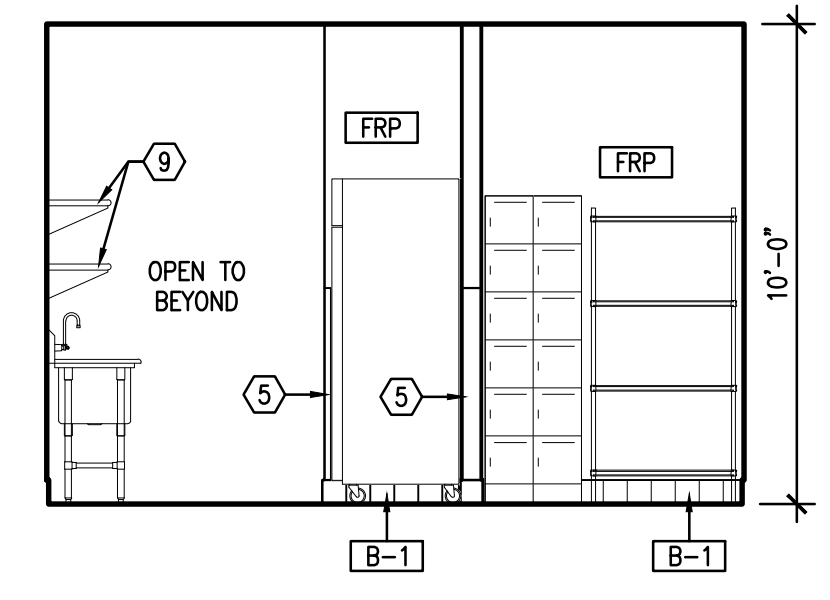
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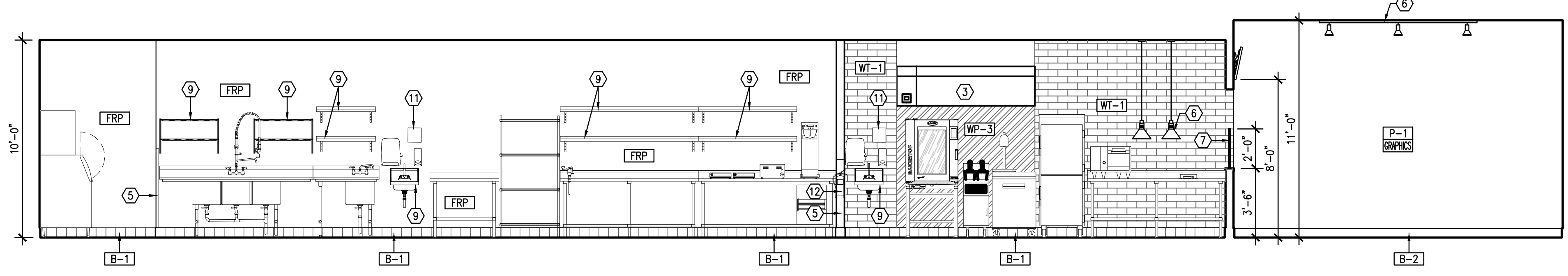
ELEVATION 4  
1/4"=1'-0"



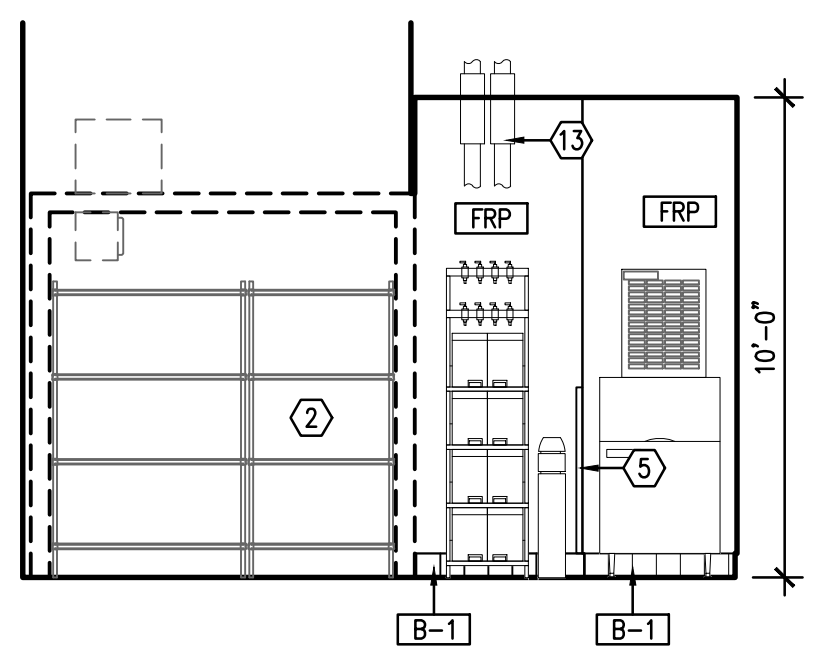
ELEVATION 5  
1/4"=1'-0"



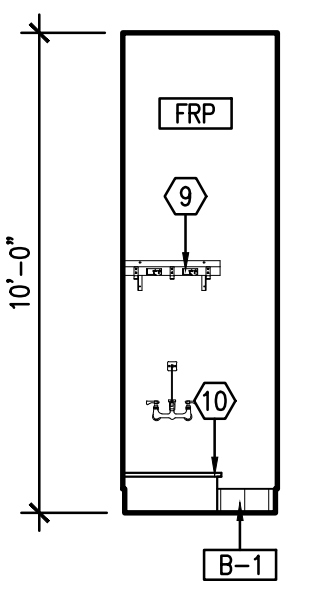
ELEVATION 6  
1/4"=1'-0"



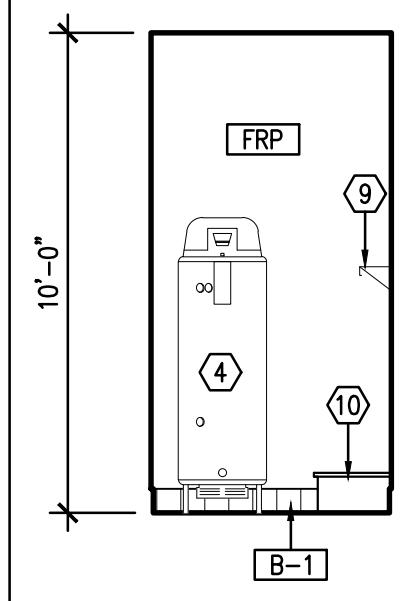
ELEVATION 7  
1/4"=1'-0"



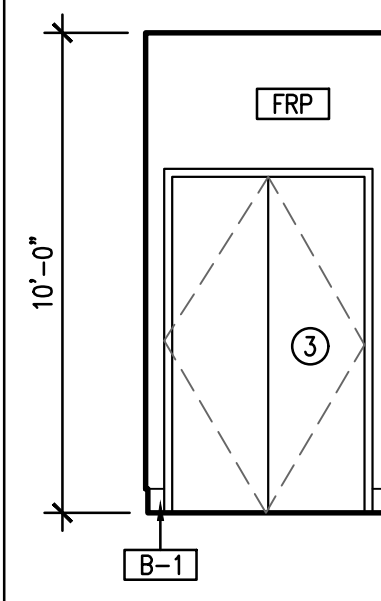
ELEVATION 8  
1/4"=1'-0"



ELEVATION 9  
1/4"=1'-0"



ELEVATION 10  
1/4"=1'-0"



ELEVATION 11  
1/4"=1'-0"

- KEY NOTES:**
- 55" WALL MOUNTED TELEVISION, REFER TO ELECTRICAL SHEETS.
  - WALK-IN COOLER, N.I.C.
  - MECHANICAL HOOD, REFER TO MECHANICAL SHEETS
  - WATER HEATER, REFER TO PLUMBING SHEETS.
  - STAINLESS STEEL CORNER GUARD OR END CAP, REFER TO DETAIL 4/A3.0.
  - LIGHT FIXTURES, REFER TO ELECTRICAL SHEETS.
  - SNEEZE GUARD, PROVIDED AND INSTALLED BY G.C.
  - ELECTRICAL OUTLET. REFER TO ELECTRICAL.
  - PROVIDE FRP BLOCKING FOR ALL MOUNTED EQUIPMENT OR SHELVES.
  - MOP SINK AND FAUCET, REFER TO PLUMBING SHEETS.
  - EMPLOYEE HAND WASHING SIGN BY OWNER.
  - FIRE EXTINGUISHER, REFER TO K1.0 AND K1.1.
  - G.C. TO PROVIDE (2) 6" DIA. PVC STUBS THROUGH CEILING FOR SODA LINES. REFER TO DETAIL 1/A3.1.

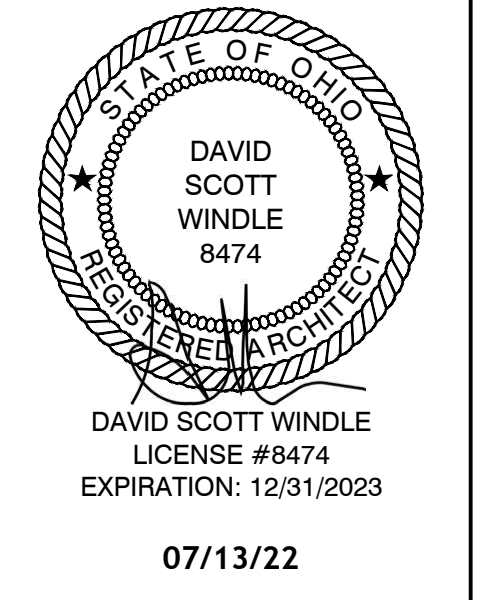
**FINISH LEGEND** (FOR REF. ONLY)

TAG	MANUF.	DESCRIPTION
<b>FLOOR</b>		
F-1	SHAW	6"x48" TILE PLANK RESILIENT FLOORING
F-2	DALTILE PAVERS	6" QUARRY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL
<b>BASE</b>		
B-1	DALTILE PAVERS	6" QUARRY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL
B-2	FURNISHED BY DICKEY'S	2"x6" WOOD BASE
B-3	DALTILE	4 1/4"x12 3/4" COVE BASE
B-4	DALTILE	6" X 6" SANITARY COVE BASE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL, GROUT LINES: 1/4"
<b>CEILING</b>		
C-1	USG OR APPROVED EQUAL	GYP. BD, 2x2 NON-PERFORATED LAY-IN WITH HEAVY DUTY "T" BAR GRID
C-2	USG OR APPROVED EQUAL	VINYL CLAD, GYP. BD, 2x4 NON-PERFORATED LAY-IN WITH HEAVY DUTY "T" BAR GRID
C-3	USG OR APPROVED EQUAL	5/8" TYPE "X" GYPSUM BOARD CEILING
<b>WAINSCOT AND WALLS</b>		
P-1	SHERWIN WILLIAMS	SW6285- TRICORN BLACK
P-2	BEHR PREMIUM	ULTRA PURE WHITE #2450
WP-1	TBD	RECLAIMED WOOD SLATS
WP-2	STANFORD SONOMA	ROLLED METAL PANEL AND DECORATIVE TRIM, ATTACH #6 METAL FINISH SCREWS
WP-3	STAINLESS STEEL VENDOR	STAINLESS STEEL PANEL
WT-1	DALTILE	4" X 12" SUBWAY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL, GROUT LINES: 1/4"
FRP	MARLITE (OR APPROVED EQUAL)	4'x10' FIBERGLASS REINFORCED PANEL
<b>GRAPHICS</b>		
GRAPHICS	FURNISHED BY DICKEY'S	GRAPHIC WALLPAPER
<b>MISC.</b>		
CT-1	TBD	FURNISHED BY DICKEY'S

- NOTES**
- G.C. MUST VERIFY ALL FINISHES WITH TENANT PRIOR TO ORDERING AND INSTALL.
  - FRP & CEILING TILE SUPPLIED AND INSTALLED BY G.C.
  - VERIFY ALL FINISHES WITH DICKEY'S C.M. PRIOR TO INSTALLING.

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**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
3975 CASCADES BLVD., SPACE 23A  
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**OH-2193**

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SHEET TITLE:  
**INTERIOR ELEVATIONS**

SHEET NUMBER:  
**A2.2**

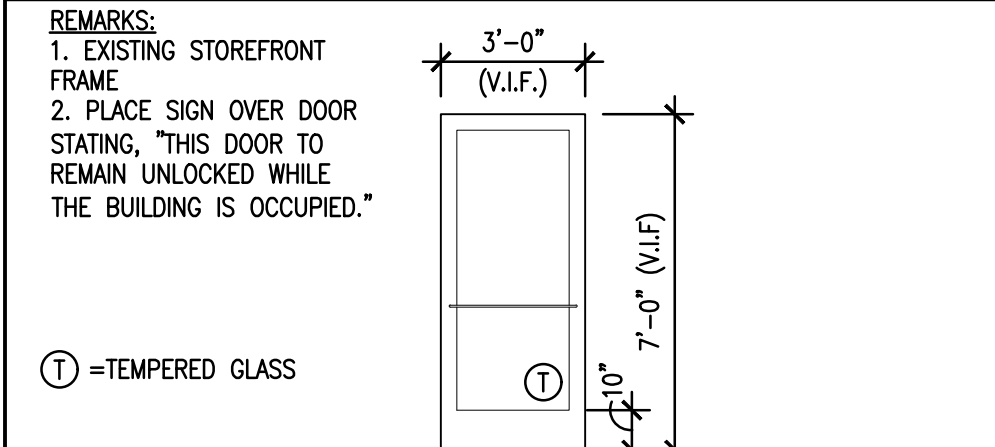
DS4 PROJECT NUMBER:  
**DBQ22008**



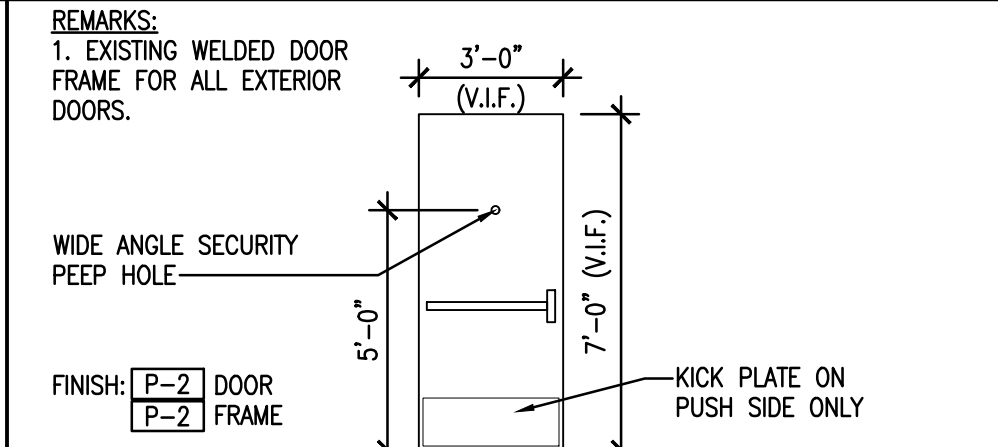




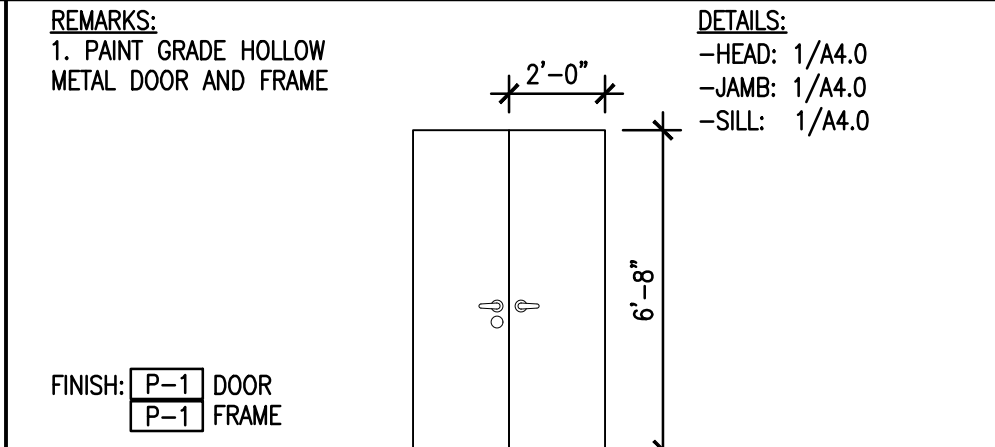




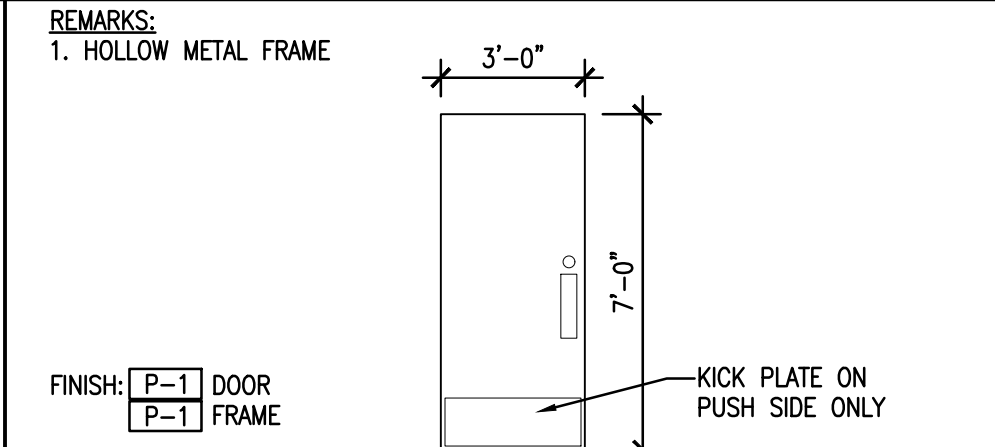
DOOR	
EX	ALUMINUM STOREFRONT DOOR AND FRAME
HARDWARE - DOOR	
EX	CONT. HINGE, 1 1/2 PR. HINGES
EX	PANIC, VON DUPRIN - 99NL 313AN 36"
EX	CLOSER, LCN - P4041-H
EX	THRESHOLD, NGP - 327DKB-72"
EX	WEATHERSTRIP, KA - SEAL PAIR BULB



DOOR	
EX	1 3/4" HOLLOW METAL DOOR WITH HOLLOW METAL FRAME
HARDWARE	
EX	CONT. HINGE, HAGER - 780-112HD DKB 83"
EX	PANIC, VON DUPRIN - 99NL 313AN 36"
EX	CLOSER, LCN - P4041-H
EX	THRESHOLD, NGP - 327DKB-36"
EX	WEATHERSTRIP, KA - SEAL PAIR BULB
EX	GASKETING, NGP - 100BDBK 42"
EX	DOOR SCOPE, DOOR SCOPE - DS/1000 - BLACK
EX	EXIT ALARM, DETEX - EAX500 - BLACK
EX	MORTISE CYLINDER, SCHLAGE - 20-001 C KEYWAY



DOOR	
NEW	SOLID CORE WOOD DOOR AND HOLLOW METAL FRAME
HARDWARE - DOOR	
1	PRIVACY SET WITH PASS KEY
3	1 1/2 PR. HINGES
1	WALL STOP
1	CLOSER
1	WALL STOP W302 TB - TRIMCO - SATIN CHROME



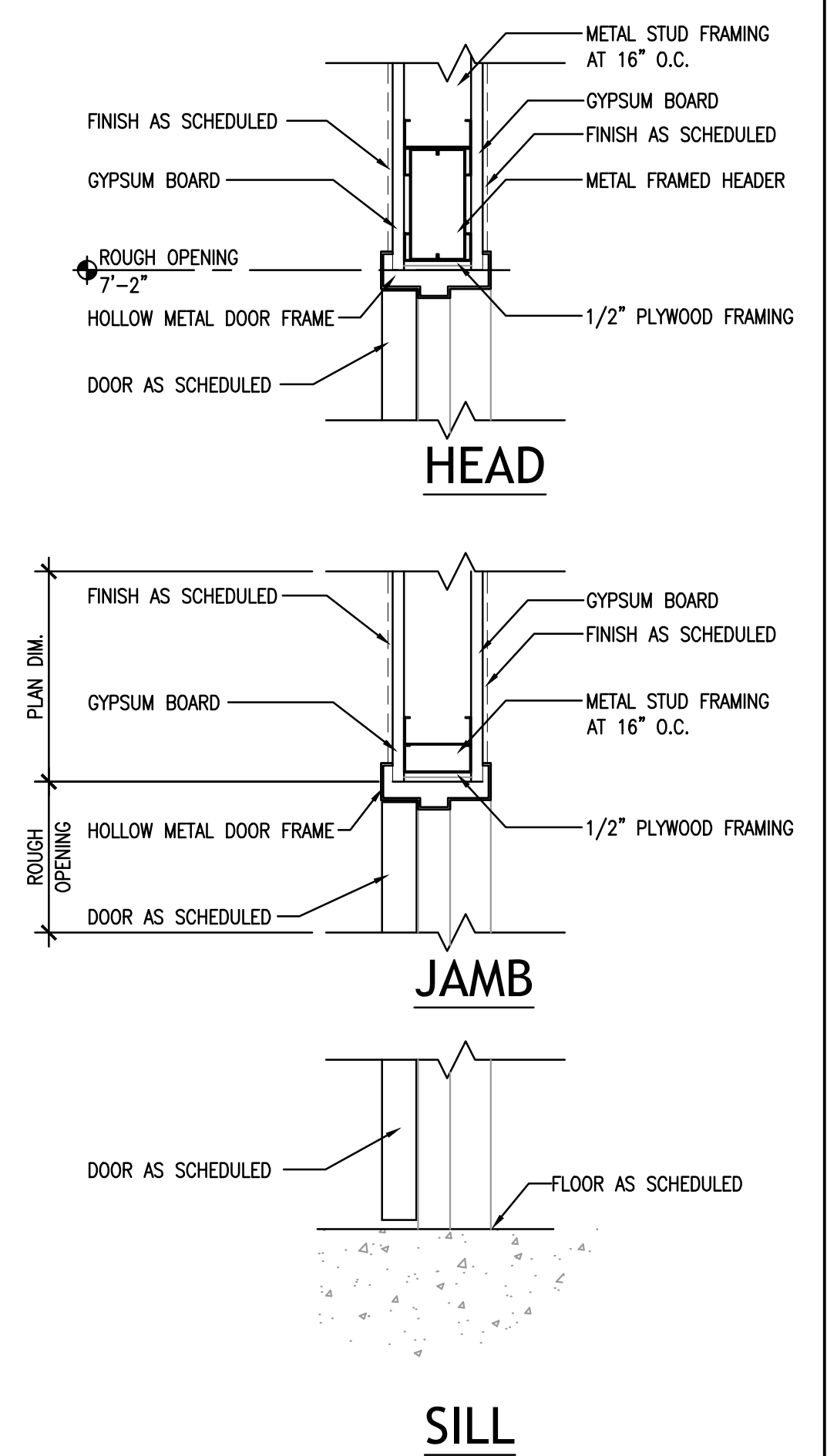
DOOR	
NEW	1 3/4" SOLID CORE WOOD DOOR WITH HOLLOW METAL FRAME
HARDWARE - DOOR	
3	EA, 1 1/2 PR. HINGES FBB179 (BALL BEARING) STANLEY - SATIN CHROME
1	EA, DOOR LOCK B571 WITH THURBURN - SCHLAGE - SATIN CHROME
1	EA, PUSH PLATE #40 4"x16" - TRIMCO - ALUMINUM
1	EA, PULL PLATE 4510A 4"x16" - TRIMCO - ALUMINUM
1	EA, KICK PLATE #48 8"x34" ON PUSH SIDE - TRIMCO - ALUMINUM
1	EA, CLOSER 1461 SNB DELAYED ACTION - LCN - ALUMINUM
1	EA, WALL STOP W302 TB - TRIMCO - SATIN CHROME

EXISTING STOREFRONT DOOR ELEVATION  
1/4"=1'-0" **1**

NEW STORAGE DOOR ELEVATION  
1/4"=1'-0" **2**

NEW STORAGE DOOR ELEVATION  
1/4"=1'-0" **3**

NEW RESTROOM DOOR ELEVATION  
1/4"=1'-0" **4 5**



GENERAL NOTES  
1. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR NEATLY CAULKING THE FOLLOWING LOCATIONS:  
-ALL EXTERIOR WINDOWS TO INTERIOR WOOD TRIM.  
-ALL WALLCOVERING TO WOOD TRIM TRANSITIONS.  
-ALL CERAMIC TILE INSIDE CORNERS.  
-ALL DOOR JAMBS TO CERAMIC TILE, WOOD TRIM OR WALLCOVERING  
-ALL KITCHEN CEILING GRID TO F.R.P.  
-ALL CERAMIC TILE BASE TOP GROUT JOINT.  
-ALL RESTROOM ACCESSORIES TO WALL SURFACE.  
-ALL WOOD TRIM TO WAINSCOT.  
-ALL FIBERGLASS REINFORCEMENT PANEL STARTS ON TOP OF THE BASE TILE.  
\*WHERE APPLICABLE, CAULK SHALL BE PAINTED TO MATCH ADJACENT TRIM.

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SHEET TITLE:  
**DOOR, WINDOW AND HARDWARE SCHEDULES**

SHEET NUMBER:  
**A4.0**

DS4 PROJECT NUMBER:  
**DBQ22008**

DOOR DETAIL  
1/2"=1'-0" **1**



**EQUIPMENT SCHEDULE**

REV	QTY	DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT REMARKS	PROVIDED BY	Plumbing Requirements																Electrical Requirements					
							WATER ROUGH-IN				WASTE ROUGH-IN				GAS ROUGH-IN				WATER COOLING ROUGH-IN				LOAD			ROUGH-IN		
							HOT	COLD	AFF	FSU	DIR	INDR	AFF	Size	BTU	AFF	Sup	Rtn	GPM	Deg	PSI	AFF	Volts/Phs	Amp	Watt	HP	AFF	FSU
100	1 ea	DICKEY'S BBQ PIT																										
100.1	1 ea	WALK-IN COOLER ASSEMBLY	BRUCHA			KEC																						
100.2	1 ea	EVAPORATOR COIL	BRUCHA			KEC																						
101	1 ea	COMPRESSOR	BRUCHA			KEC																						
102	2 ea	DUNNAGE RACK	WINCO	ADRK-2036		KEC																						
103	2 ea	SHELVING UNIT, EPOXY, 48"x24"	QUANTUM	2486P	EPOXY COATED 4 TIER, 6' LEGS	KEC																						
104	1 ea	SHELVING UNIT, EPOXY, 36"x24"	QUANTUM	2486P	EPOXY COATED 4 TIER, 6' LEGS	KEC																						
105	2 ea	CASHER COUNTER	WINHOLT	STCT-HD-3660M	6' LEGS	KEC																						
106	2 ea	CASH REGISTER	VENDOR			VENDOR																						
106.1	2 ea	PRINTER	VENDOR			VENDOR																						
106.2	2 ea	PRINTER	VENDOR			VENDOR																						
107	1 ea	BEVERAGE COUNTER	JOHN BOOS	4BURRS-3672L	6' LEGS	KEC																						
108	2 ea	ICE TEA DISPENSER	BUNN	34100 0000		KEC																						
109	1 ea	SODA DISPENSER W/ ICE DISPENSER	VENDOR			VENDOR																						
109.1	1 ea	SODA CARBONATOR	VENDOR			VENDOR																						
110	2 ea	FIRE EXTINGUISHER																										
111	1 ea	REFRIGERATED SANDWICH PREP TABLE	TURBO AIR	MST-48-18N		KEC																						
112	2 ea	50" WALL MOUNTED TV	TBD		MOUNT PROVIDED BY VENDOR	OWNER																						
113	1 ea	3 COMPARTMENT STEAM TABLE	KLINGERS TRADING INC	SW-3H-120		KEC																						
114	1 ea	CAN OPENER	WINCO	CO-3N		KEC																						
115	1 ea	TOASTER CONVEYOR	APW WYOTT	M-56-2		KEC																						
116	2 ea	DECORATIVE HEAT LAMP (COPPER)	HATCO	DL775		KEC																						
117	1 ea	S/S WORK TABLE	JOHN BOOS	ST6RS-3884GSK		KEC																						
118	1 ea	SCALE, TABLE TOP	GLOBE	GLS30		KEC																						
119	1 ea	HOT HOLDING CABINET	F.W.E	PHTT-12		KEC																						
120	1 ea	UNDERCOUNTER FREEZER	ATOSA	MGF8405GR		KEC																						
121	1 ea	LOT	S/S WALL FLASHING	CUSTOM		KEC																						
122	1 ea	FRY WARMER	HATCO	GRF5		KEC																						
123	1 ea	FRYER, GAS	COOK RITE	ATFS-40		KEC																						
123	1 ea	TANK CLEANING SET				KEC																						
124	1 ea	MOVEABLE GAS CONNECTION KIT	KROWNE	M7548K		KEC																						
124.1	1 ea	EXHAUST HOOD	ACCUREX			GC																						
124.2	1 ea	MAKE-UP AIR SYSTEM	ACCUREX			GC																						
124.3	1 ea	EXHAUST FAN	ACCUREX			GC																						
124.4	1 ea	HOOD DUCT	ACCUREX			GC																						
124.5	1 ea	UTILTY CABINET	ACCUREX			GC																						
125	1 ea	INSUL SYSTEM	ACCUREX			GC																						
125	1 ea	COMB OVEN, GAS	UNOX	XAVC-19FS-GPLM		KEC																						
125	1 ea	EXTENDED WARRANTY	UNOX	UNOX LONG LIFE4		KEC																						
125	1 ea	INSTALLATION KIT	UNOX	XJC003		KEC																						
125	1 ea	QT WATER FILTER SYSTEM, DUAL	STANDARD OPTIPURE	LX170-52080A QTI-CR		KEC																						
125	1 ea	HYPER SMOKER	UNOX	XJC090		KEC																						
125	1 ea	HAND SHOWER KIT	UNOX	XJC091		KEC																						
125	1 ea	HIGH OPEN STAND	UNOX	XWARC-07EF-H		KEC																						
125	1 ea	CASTER KIT	UNOX	XJC10		KEC																						
125	10 ea	FLAT STAINLESS STEEL GRID	UNOX	GRP50		KEC																						
126	1 ea	S/S WORK TABLE	JOHN BOOS	ST6RS-3649GSK		KEC																						
127	1 ea	AIR CURTAIN	MARK	IK28-1U		KEC																						
128	1 ea	ICE MAKER	ICE-O-MATIC	GEM0450	W/ KIT KBT23	KEC																						
129	1 ea	ICE BIN	ICE-O-MATIC	B55		KEC																						
130	1 ea	PREP SINK	JOHN BOOS	TB184-1018LX		KEC																						
131	1 ea	DRAIN LEVER	KROWNE	22-204		KEC																						
131	2 ea	WALL SPLASH MOUNT FAUCET	KROWNE	12-89BL		KEC																						
132	2 ea	S/S WALL SHELF	JOHN BOOS	BHS1636		KEC																						
132	2 ea	INDUCTION COOKTOP	GLOBE	GR18		KEC																						
133	2 ea	S/S WALL SHELF	JOHN BOOS	BHS1660		KEC																						
133.1	4 ea	S/S WALL SHELF	JOHN BOOS	BHS1660		KEC																						
134	2 ea	S/S WORK TABLE	JOHN BOOS	ST6RS-3094GSK		KEC																						
134.1	2 ea	S/S WORK TABLE	JOHN BOOS	ST6RS-3042GSK		KEC																						
134.2	2 ea	S/S WORK TABLE	JOHN BOOS	ST6RS-3036GSK		KEC																						
135	1 ea	ICE TEA BREWER	BUNN	41400 0000		KEC																						
136	2 ea	HAND SINK	JOHN BOOS	PBHS-W-1410-P-SSLR-X		KEC																						
136.1	2 ea	SOAP DISPENSER	SAN JAMAR	BS90TBL		KEC																						
136.2	2 ea	PAPER TOWEL DISPENSER	SAN JAMAR	T1100TBK		KEC																						
137	1 ea	INSULATED HOLDING CABINET	CAMBRO	UPCH400110		KEC																						
138	4 ea	WALL MOUNTED WIRE SHELVING	WINCO	VC1836VCB18		KEC																						
139	1 ea	3 COMPARTMENT SINK	JOHN BOOS	TB184-2D18		KEC																						
139	3 ea	DRAIN LEVER	KROWNE	22-204		KEC																						
139	1 ea	PRE-RINSE FAUCET	KROWNE	17-109WL		KEC																						
140	1 ea	SODA SYSTEM BAG-IN-BOX	VENDOR			VENDOR																						
141	1 ea	CO2 SYSTEM	VENDOR			VENDOR																						
142	7 ea	SHELVING UNIT, CHROME	QUANTUM	1536C		KEC																						
143	2 ea	SHELVING UNIT, CHROME	QUANTUM	2486C		KEC																						
144	1 ea	MOP SINK	JOHN BOOS	PBMS2016-12	W/ BACKFLOW PREVENTION DEVICE	KEC																						
145	1 ea	CHEMICAL SHELF W/ MOP HOLDER	JOHN BOOS	PB-MSS824-X		KEC																						
146	1 ea	WATER HEATER																										





FAN SCHEDULE											
MARK	SERVICE	CFM	E.S.P. "WG	RPM	MOTOR HP	VOLTS/PH	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
KEF-1	KITCHEN HOOD	1350	1.0	1318	0.75	115/1	ACCUREX	XCUE-140-VG	ROOF UPBLAST FAN	86	1,2,4,5,6
MAU-1	COOKLINE HOOD	1100	0.5	1412	0.5	115/1	ACCUREX	XDGX-P115	MAKEUP AIR FAN	421	1,3,4,6,9
TEF-1	RESTROOM	100	0.5	1100	1/10	120/1	GREENHECK	SP-100	CEILING CABINET FAN	54	3,4,7,8
TEF-2	RESTROOM	100	0.5	1100	1/10	120/1	GREENHECK	SP-100	CEILING CABINET FAN	54	3,4,7,8
FF-1	REAR SERVICE DOOR	2250	0.5	-	0.5	120/1	MARS	STD36	WALL MNTD, DOWNBLAST	34	10,11

**NOTES:**

- PROVIDE INTERLOCK SWITCH BETWEEN KITCHEN HOOD EXHAUST FAN AND MAU-1. COORDINATE REQUIRED WORK WITH THE ELECTRICAL CONTRACTOR.
- THE FAN SHALL BE FACTORY EQUIPPED WITH AN INDEPENDENT WEATHER PROOF DISCONNECT SWITCH IN SIGHT OF THE EQUIPMENT.
- WEATHER PROOF DISCONNECT SWITCH AND INTERNAL WIRING SHALL BE FACTORY INSTALLED.
- PROVIDE GRAVITY BACKDRAFT DAMPER.
- PROVIDE FACTORY AVAILABLE GREASE BOX.
- FURNISHED WITH THE KITCHEN EQUIPMENT PACKAGE, INSTALLED BY THE MECHANICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL INTERLOCK WITH RESPECTIVE RESTROOM LIGHT SWITCH FOR SIMULTANEOUS OPERATION.
- FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- FAN IS FACTORY EQUIPPED WITH DIRECT FIRED GAS COMBUSTION HEAT EXCHANGER, RATED FOR 88 MBH INPUT / 81 MBH OUTPUT.
- INSTALL COMPLETE WITH MANUFACTURER AVAILABLE DOOR LIMIT MICRO SWITCH.
- FAN SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.

O/A VENTILATION SCHEDULE						
AREA SERVED	VENTILATION (OCCUPANCY)			VENTILATION (AREA)		
	# OF PPL	CFM/PERSON	CFM	SF	CFM/SF	CFM
CUSTOMER	60	7.5	450	1020	0.18	184
KITCHEN/BOH	6	7.5	45	834	0.12	101
RESTROOMS	-	-	-	142	-	-
CORRIDOR	-	-	-	190	0.06	12
SUBTOTALS			495			297
TOTAL O/A REQUIRED						792 CFM

**NOTES:**

- CALCULATIONS ARE BASED ON 2018 IMC
- OUTDOOR AIR DEMAND IS: - 792 CFM  
OUTDOOR AIR PROVIDED IS: +1000 CFM  
OUTDOOR AIR DIFFERENCE IS: + 208 CFM

AIR BALANCE SCHEDULE						
MARK	DINING (CFM)			KITCHEN (CFM)		
	S/A	O/A	E/A	S/A	O/A	E/A
RTU-1	2500	500	-	-	-	-
RTU-2	2500	500	-	-	-	-
KEF-1	-	-	-	-	-	1350
MAU-1	-	-	-	-	1100	-
TEF-1&2			200			
TOTAL	5000	1000	200	-	1100	1350

DINING PRESSURIZATION (O/A) - (E/A) = +800 CFM  
KITCHEN PRESSURIZATION (O/A) - (E/A) = -250 CFM  
NET BUILDING PRESSURIZATION (DINING + KITCHEN) = +550 CFM

ROOFTOP UNIT SCHEDULE			
GENERAL	MARK	(E)RTU-1	(E)RTU-2
		SERVING	DINING/SERVICE
	MANUFACTURER	JCI	JCI
	MODEL NO.	ZJ078S	ZJ078S
	TYPE	GAS/ELEC	GAS/ELEC
	OPERATING WEIGHT, LBS.	1625	1625
	LENGTH, WIDTH, HEIGHT	EXISTING	EXISTING
	MINIMUM EER/SEER	11.8	11.8
ELECTRICAL	VOLTS/ PH/ HZ	460/3/60	460/3/60
	MCA (AMPS)	25.4	25.4
	MOCPP (AMPS)	30	30
SUPPLY FAN	SUPPLY AIR CFM	2500	2500
	OUTSIDE AIR CFM	500	500
	ESP ("W.G.)	1.0	1.0
	FAN RPM	1027	1027
	MOTOR HP	2.0	2.0
COOLING	NOMINAL SIZE TONS	6.0	6.0
	TOTAL CAPACITY (MBH)	84.3	84.3
	SENSIBLE CAPACITY (MBH)	64.0	64.0
	OUTSIDE AIR DB/WB, °F.	88/72	88/72
	ENTERING AIR DB/WB, °F.	80/67	80/67
HEATING	TYPE OF HEAT	GAS	GAS
	HEATING INPUT (MBH)	180	180
	HEATING OUTPUT (MBH)	144	144
	OUTSIDE AIR DB/WB, °F.	0	0
	LEAVING AIR DB/WB, °F.	102.0	102.0
NOTES		1-10	1-10

**NOTES:** (NOT ALL MAY APPLY)

- HVAC EQUIPMENT IS EXISTING BY LANDLORD TO REMAIN.
- CONTRACTOR SHALL BRING SYSTEMS TO "LIKE NEW" CONDITION, INCLUDING BUT NOT LIMITED TO REPLACING OR ADJUSTING FAN BELTS & PULLEYS, RECHARGING REFRIGERANT, COMBING FINS, ETC.
- BALANCE AIRFLOWS FOR S/A AND O/A TO VALUES NOTED ABOVE.

MECHANICAL LEGEND		
SYMBOL	ABBR.	DESCRIPTION
☒	CD	CEILING DIFFUSER - SUPPLY
☒	CD	CEILING DIFFUSER BELOW DUCT - SUPPLY
☒	SAD	RISER - SUPPLY AIR DUCT
☒	SAD	DROP - SUPPLY AIR DUCT
☒	CR	CEILING REGISTER - RETURN
☒	CR	CEILING REGISTER BELOW DUCT - RETURN
☒	RAD	RISER - RETURN AIR DUCT
☒	RAD	DROP - RETURN AIR DUCT
☒	CE	CEILING REGISTER - EXHAUST
☒	CE	CEILING REGISTER BELOW DUCT - EXHAUST
☒	EAD	RISER - EXHAUST AIR DUCT
☒	(L)	LINED DUCTWORK
☒	VD	MANUAL VOLUME DAMPER
☒	FC	FLEXIBLE CONNECTION
☒		NEW DUCT
☒		AIR DEVICE DESIGNATION
⊕	TSTAT	PROGRAMMABLE THERMOSTAT
⊕	SENS	REMOTE TEMPERATURE SENSOR
⊕	SD	SMOKE DETECTOR
⊕	POC	POINT OF CONNECTION
	CFM	CUBIC FEET PER MINUTE
	S/A	SUPPLY AIR
	R/A	RETURN AIR
	O/A	OUTSIDE AIR
	E/A	EXHAUST AIR
	S.P.	STATIC PRESSURE
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE
	VIF	VERIFY IN FIELD
	(E)	EXISTING

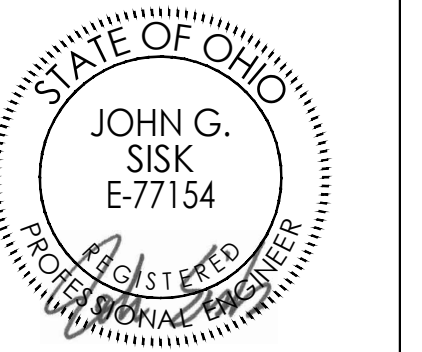
GENERAL NOTES	
1.	FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA THROUGHOUT THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2.	THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
3.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
4.	THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
5.	THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHT FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
6.	PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
7.	ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
8.	ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
9.	HVAC UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET-BACK HOURS, THE HVAC UNITS SHALL RUN IN "FAN AUTO" MODE.
10.	MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR HVAC UNITS AND FANS.
11.	ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0". ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
12.	SUPPLY, RETURN, RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL (UNO.) GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED.
13.	ALL HVAC SUPPLY AND RETURN EXPOSED RIGID DUCTWORK SHALL BE INTERNALLY LINED AND PINNED WITH MINIMUM R-8, 1-1/2" INSULATION WITH VAPOR BARRIER PER THE 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. REFER TO ARCHITECTURAL DRAWINGS FOR DUCT PAINT OR COLOR SPECIFICATION
14.	ALL HVAC SUPPLY AND RETURN CONCEALED RIGID DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM R-8, 2" INSULATION WITH VAPOR BARRIER PER THE 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
15.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
16.	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
17.	ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
18.	THERMOSTAT(S) SHALL BE LOCATED AT 48" A.F.F. EXACT LOCATIONS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL-MOUNTED WORK OR PROXIMITY TO HEAT PRODUCING EQUIPMENT.
19.	PER THE 2018 INTERNATIONAL MECHANICAL CODE WITH CITY AMENDMENTS WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE BUILDING CODE, SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
20.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE AIR HANDLING UNITS WITH PLEATED MERV 8 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
21.	MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.
22.	REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.

TEST AND BALANCE NOTES	
1.	THE GENERAL CONTRACTOR SHALL SUBCONTRACT TO AN INDEPENDENT AIR TEST AND BALANCE CONTRACTOR FOR THE TESTING, ADJUSTING AND BALANCING OF ALL ENVIRONMENTAL SYSTEMS SHOWN OR SPECIFIED ON THE CONTRACT DOCUMENTS. THIS SHALL INCLUDE OPERATION IN COOLING, HEATING, AND DEHUMIDIFICATION OPERATIONAL MODES. THE WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY EITHER ABC OR NEBS, AND FOUR (4) COPIES OF THE FINAL REPORT, SUBMITTED ON CERTIFYING AGENCY FORMS, SHALL BE SUBMITTED TO THE DICKEY'S CONSTRUCTION MANAGER FOR APPROVAL. THE REPORT SHALL BEAR THE CERTIFICATION SEAL OF THE TAB SUPERVISOR IN CHARGE. REPORTS SHALL CONTAIN ALL AIR SIDE BALANCING DATA, INSTRUMENTS USED AND THEIR LATEST CALIBRATION DATES, PERSON(S) PERFORMING THE WORK AND A WRITTEN GUARANTEE THAT ALL TAB WORK WAS PERFORMED IN ACCORDANCE WITH THE CERTIFYING AGENCY STANDARDS AND PROCEDURES.
2.	THE TEST AND BALANCE REPORT SHALL INCLUDE OPERATIONAL DATA FOR EVERY COMPONENT OF THE COMPLETE MECHANICAL SYSTEM INCLUDING HVAC EQUIPMENT, HVAC AIR DEVICES, RESTROOM FANS, ETC. THIS DATA SHALL INCLUDE THE BALANCED OPERATING DATA FOR EQUIPMENT AS COMPARED TO THE DESIGN AIR BALANCE SCHEDULE ON THIS SHEET.
3.	FOR CLARIFICATION, THE ENGINEER OF RECORD WILL NOT BE ABLE TO REVIEW THE INSTALLED MECHANICAL SYSTEMS FOR POTENTIAL OPERATIONAL ISSUES OR INSTALLATION DEFICIENCIES WITH THE FULL AND COMPLETE TEST AND BALANCE REPORT.

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07/13/22

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
3975 CASCADES BLVD., SPACE 23A  
KENT, OH 44240

CLIENT: DANIEL UNSWORTH  
3717 WOODS TRAIL  
KENT, OH 44240



**OH-2193**

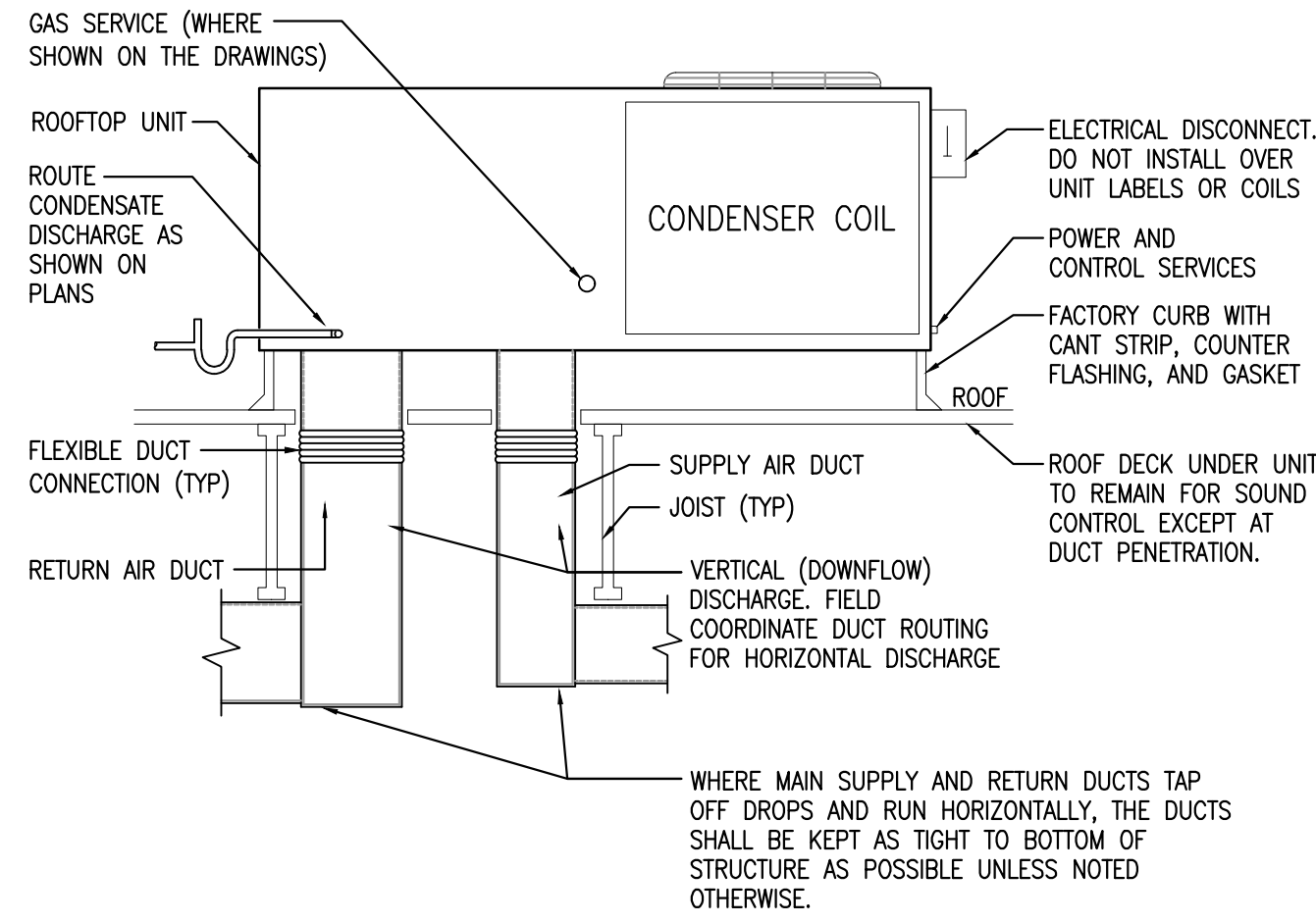
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07/08/22	CORPORATE REVIEW
07/13/22	PERMIT ISSUE

DATE	DESCRIPTION

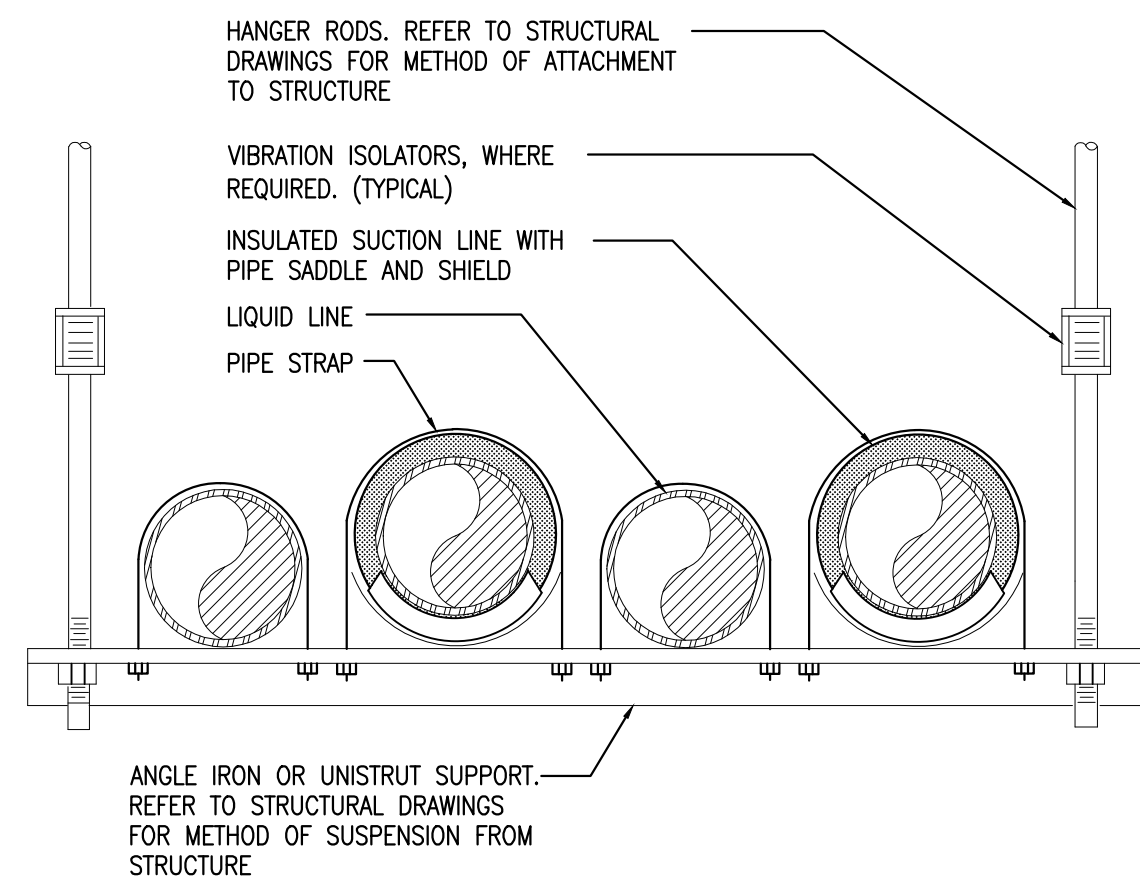
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**MECHANICAL SCHEDULES**

SHEET NUMBER:  
**M2.0**

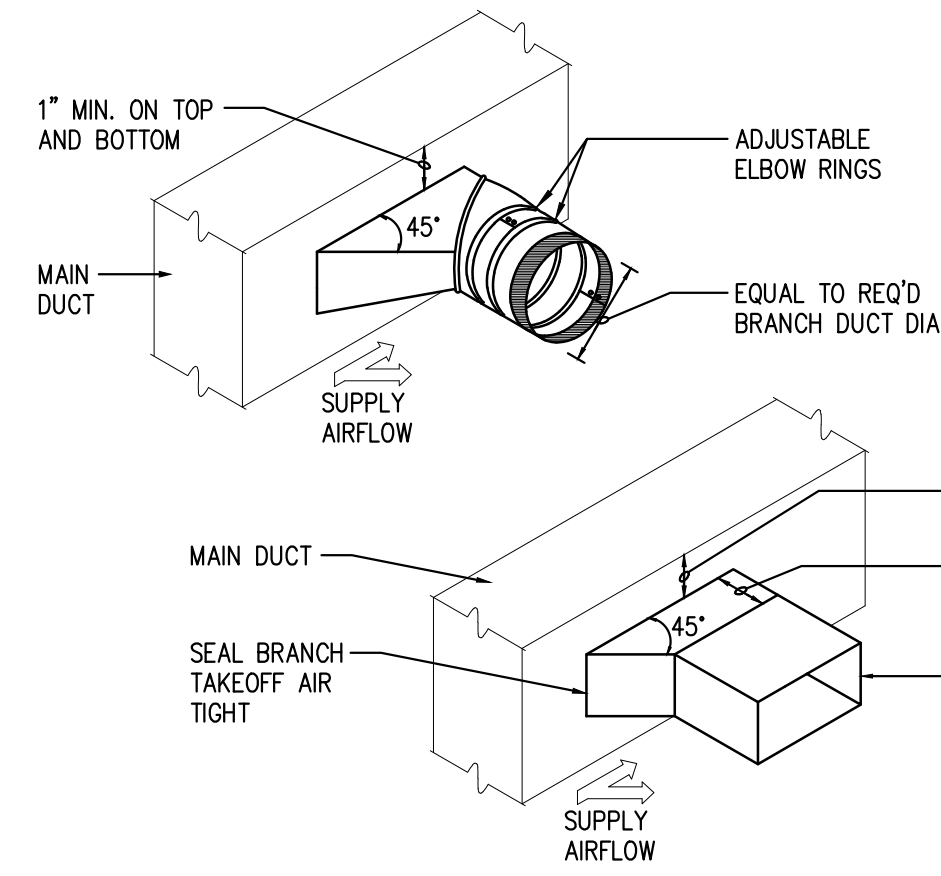
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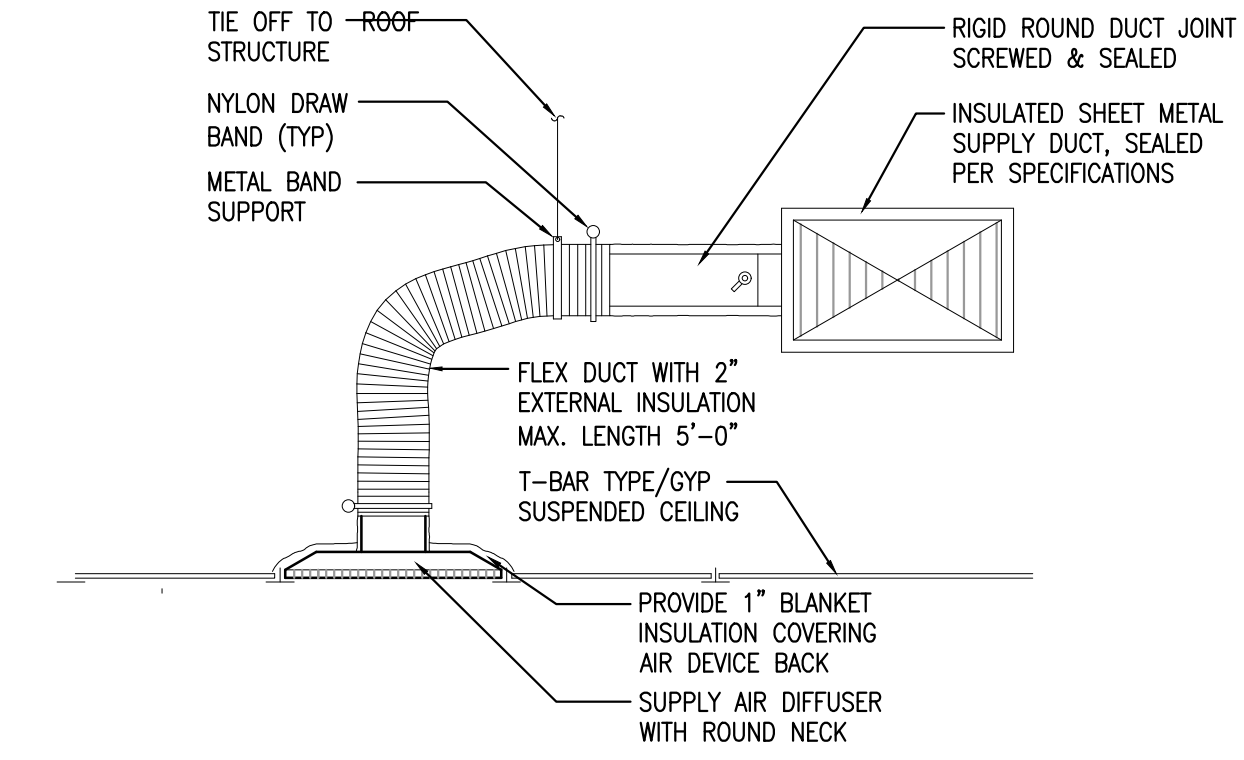
**PACKAGED ROOFTOP UNIT DETAIL**  
SCALE: NONE **1**



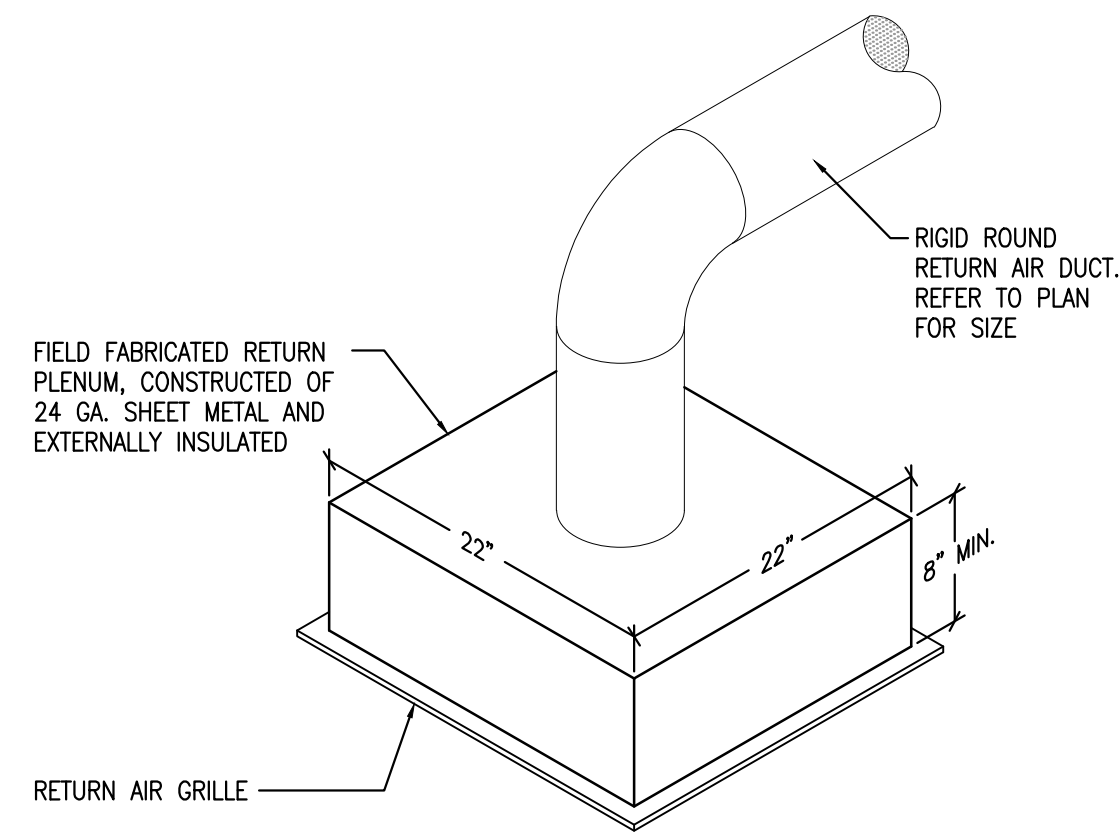
**HORIZONTAL REFRIGERANT PIPE SUPPORT DETAIL**  
SCALE: NONE **2**



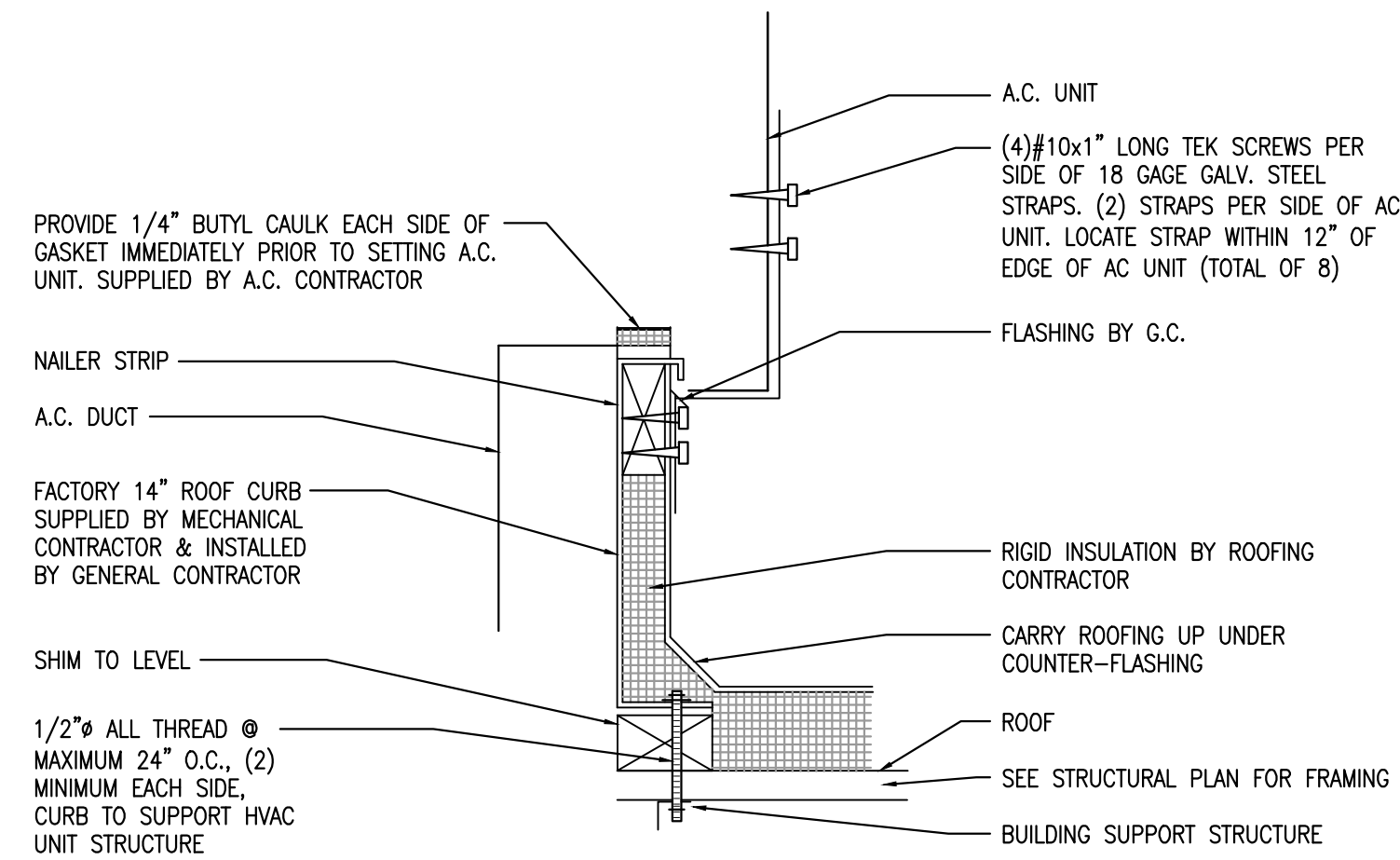
**BRANCH TAKE-OFF FITTING DETAIL**  
SCALE: NONE **3**



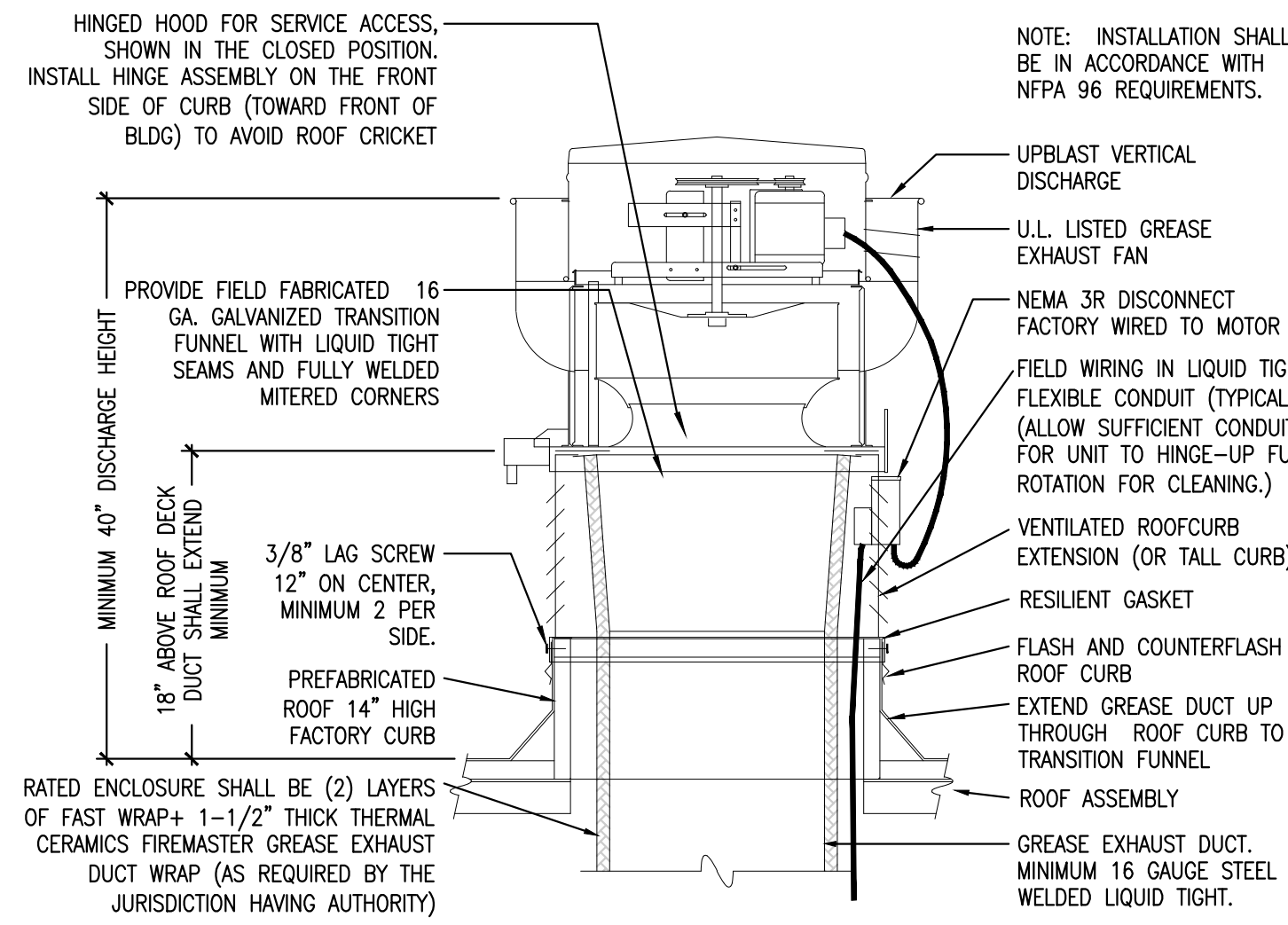
**CEILING MOUNTED SUPPLY AIR DIFFUSER DETAIL**  
SCALE: NONE **4**



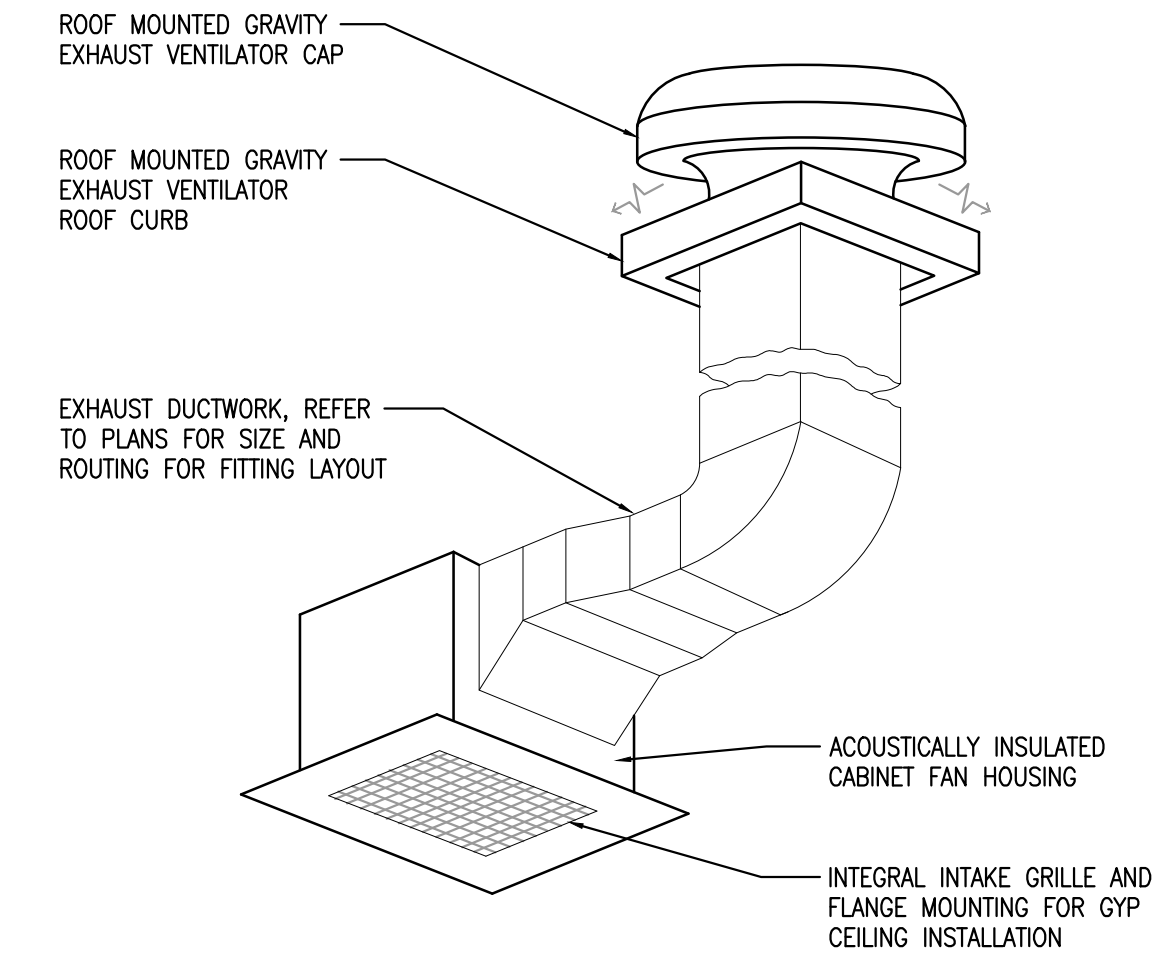
**CEILING MOUNTED RETURN AIR GRILLE DETAIL**  
SCALE: NONE **5**



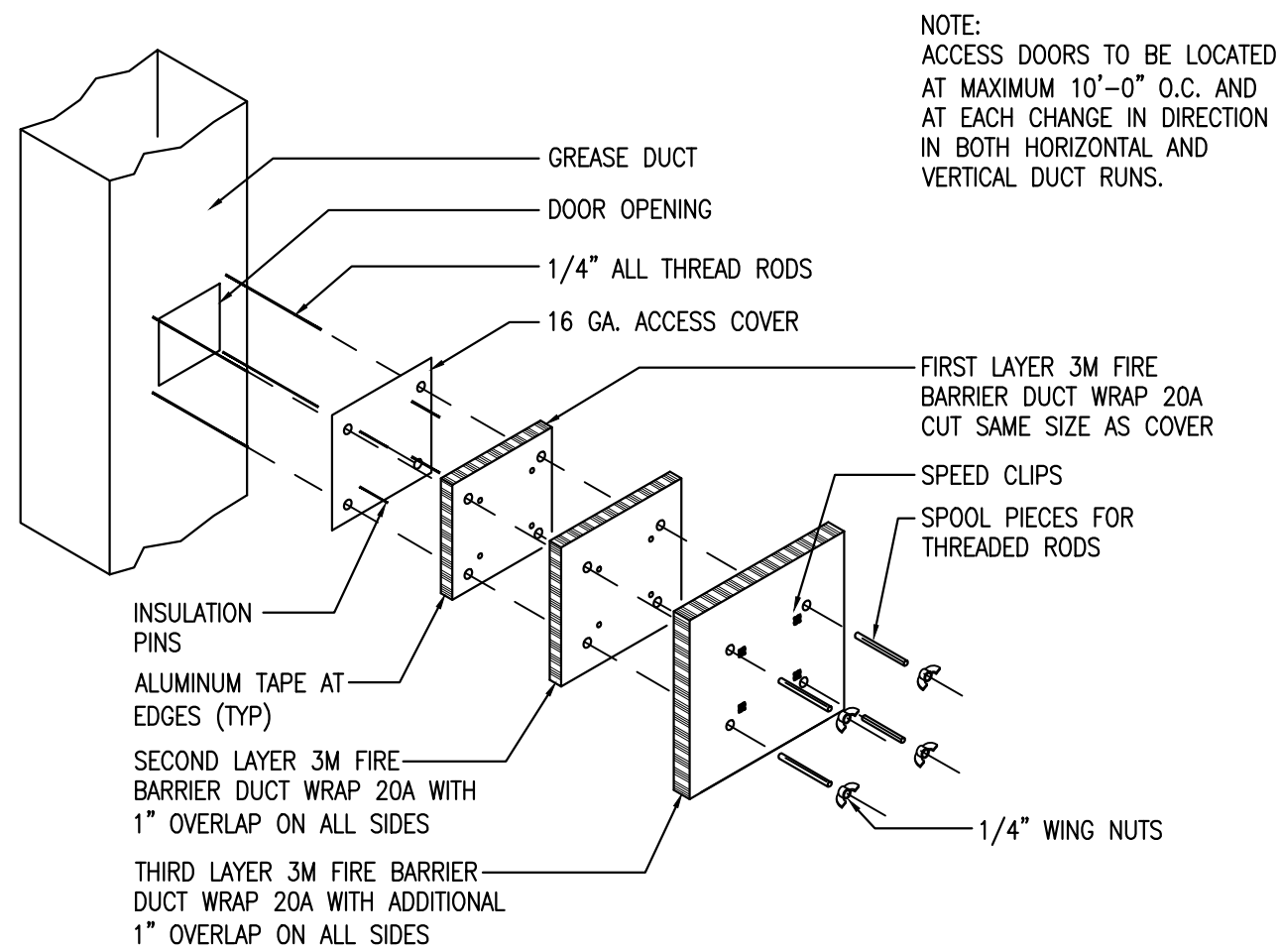
**PACKAGED ROOFTOP UNIT CURB BASE DETAIL**  
SCALE: NONE **6**



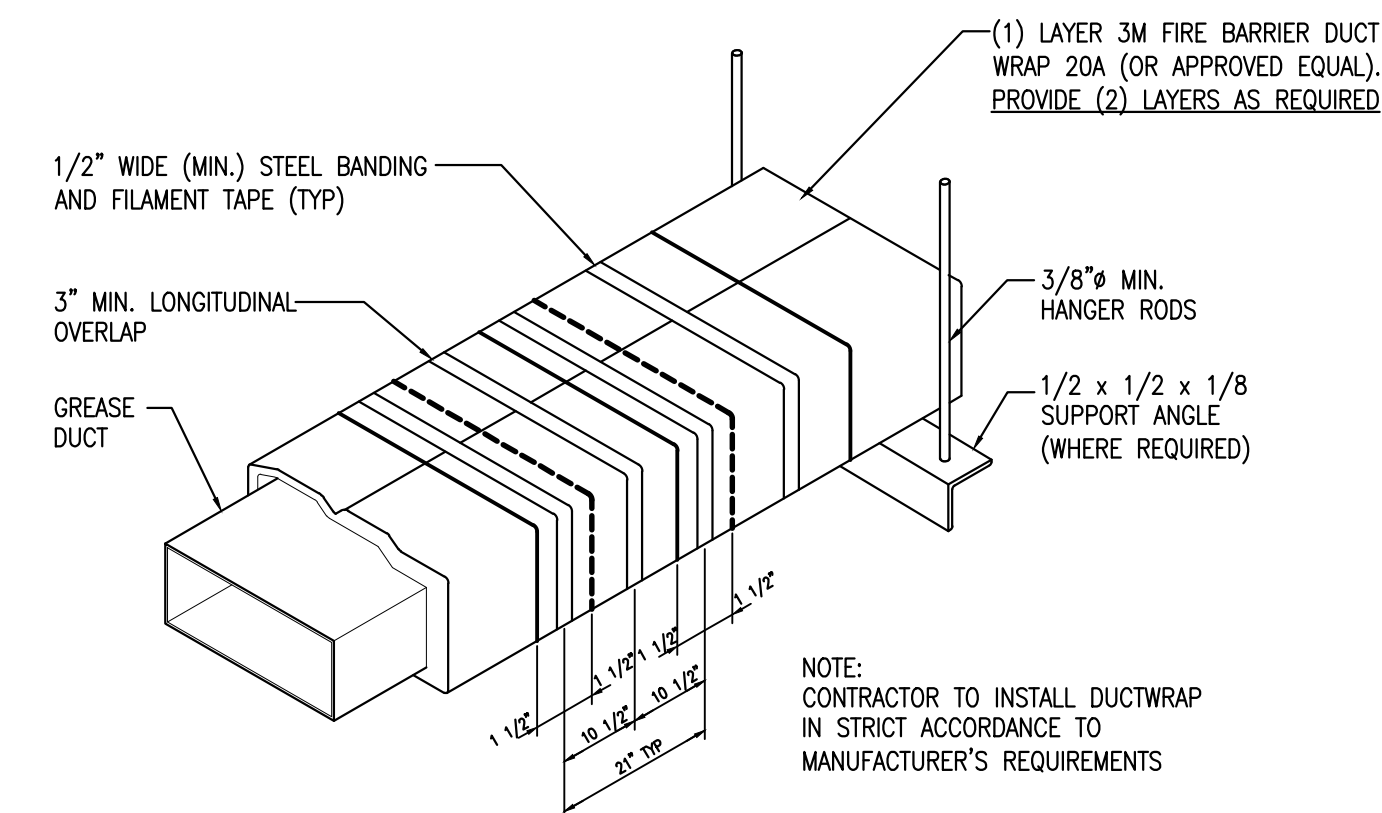
**KITCHEN UPBLAST GREASE EXHAUST FAN DETAIL**  
SCALE: NONE **7**



**CEILING MOUNTED CABINET FAN DETAIL**  
SCALE: NONE **8**



**UL LISTED GREASE EXHAUST DUCT ACCESS DOOR DETAIL**  
SCALE: NONE **9**



**UL LISTED GREASE EXHAUST DUCT WRAP DETAIL**  
SCALE: NONE **10**

**NOT USED**  
SCALE: NONE **11**

**NOT USED**  
SCALE: NONE **12**

ENGINEER:  
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DATE	DESCRIPTION

SHEET TITLE:  
**MECHANICAL  
DETAILS**

SHEET NUMBER:  
**M3.0**

1054 PROJECT NUMBER:  
**DBQ22008**

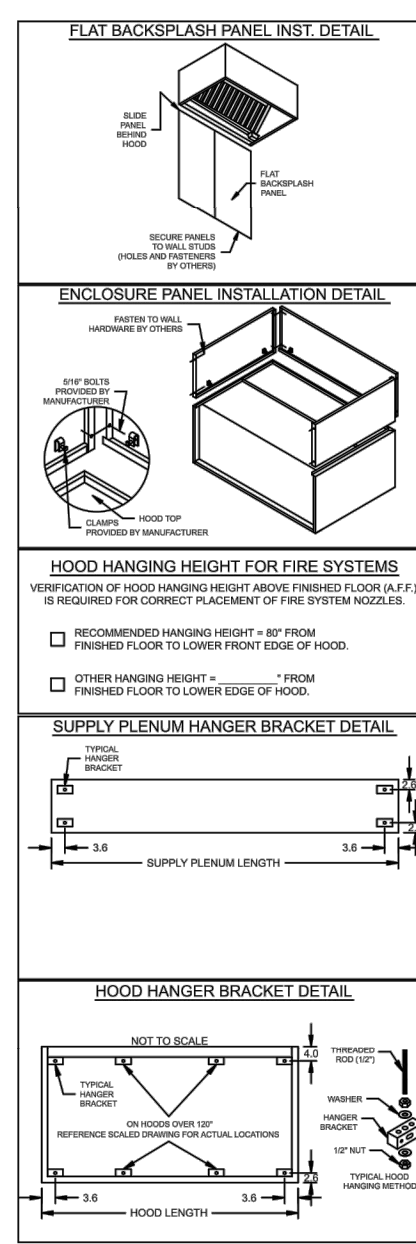
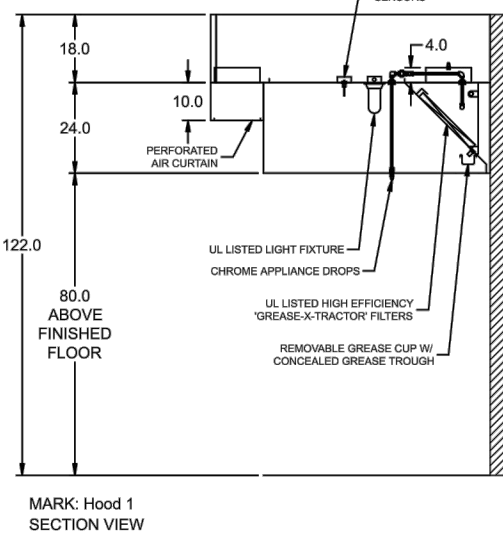
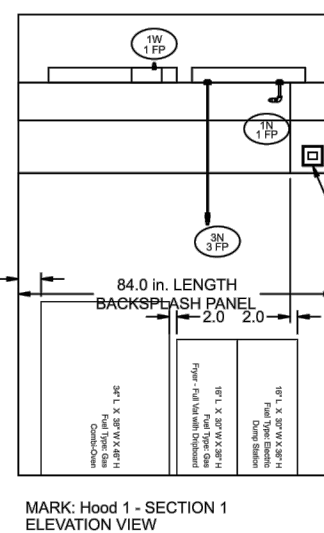
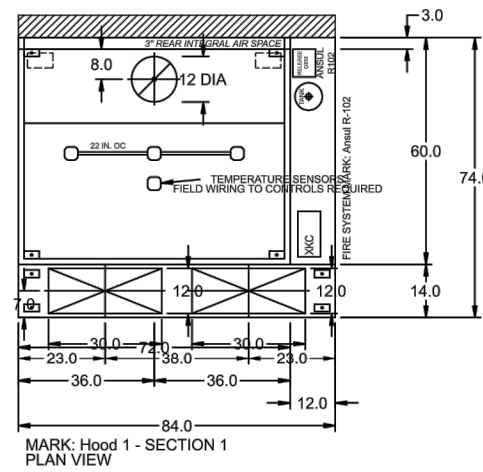
HOOD INFORMATION															
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.			EXHAUST			SUPPLY		TOTAL	SECTION
1	HOOD 1	XXEN-73-B	LENGTH	WIDTH	HEIGHT	TYPE	QTY	TOTAL	COLLARS	CFM	S.P.	MUA	AC	WEIGHT	LOCATION
			72	80	24	HEAVY	1	1550	12	1350	B#18	1100		222.394	SINGLE

HOOD INFORMATION													
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS			UTILITY CABINET(S)			CONTROLS		
1	HOOD 1	FIXTURE TYPE	MATERIAL	QTY	TYPE	HOOK	SIZE	QTY	LOCATION	TYPE	SIZE	MODEL	INTERFACE
		INCANDESCENT (GLOBE)	10W A19 (GLOBES NOT INCL.)	3	42 IN	STAINLESS STEEL	2	20	FRONT	ANEXA R10W	1.8	XXC	TOUCHSCREEN

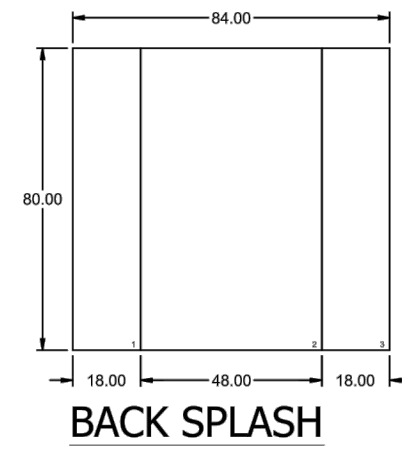
SUPPLY PLENUM INFORMATION												
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)	INSULATED	DAMPERS	LED LIGHT(S)	TOTAL	COLLARS	W	H	VEL.
1	HOOD 1	FRONT	ASP	18.0	NO	NO	NO	1100	3/4	1.12	20	500
UL LISTED BY OUF EXHAUST FIRE DAMPER - UL #30525 BACK INTEGRAL AIR SPACE - 3 IN WIDE 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED FACTORY MOUNTED EXHAUST COLLARS BACKSPLASH 80.00 IN HIGH 84.00 IN LONG PERFORMANCE ENHANCING UP-FLOW TECHNOLOGY STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH												



PROJECT: 06/2022  
 MUA-1  
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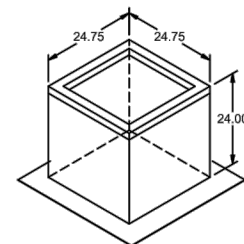
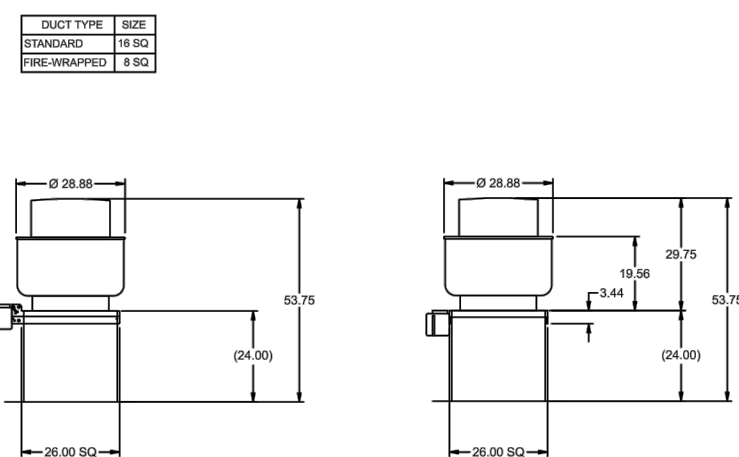
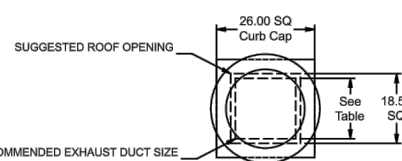
DICKEYS BBQ - KENT OH  
 HOOD 1

**ACCUREX**



Direct Drive Ubbeloh Centrifugal Roof Exhaust Fan												
MARK INFORMATION		FAN INFORMATION				MOTOR INFORMATION						
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (L.B.)	SIZE (HP)	VICP	ENCLOSURE	MOTOR RPM	WINDINGS
1	EF-1	XCU-145-VG	1,380	1	1,341	0.41	86	0.75	11550T	QP	1550	1

EF-1 - SELECTED OPTIONS AND ACCESSORIES  
 One piece fully welded windward tapered bunting wheel hub  
 Breaker base outlet area 4.4 sq. in. (size 99-480), 2.0 sq. in. (size 95-95)  
 Min. windward material thickness: 0.051" aluminum (95-240), 0.064" aluminum (240HP, 240XP), 0.087" aluminum (size 30-480)  
 Larger Curb Cap Size - 28 Square  
 UL600, 762 Label - "Power Ventilator for Roof. Exh. Appliances"  
 Switch, NEMA-3R, Toggle, Stripped with Lint  
 Hinge, Factory Installed  
 High Tensile Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)  
 Grease Trap (PN 475538)

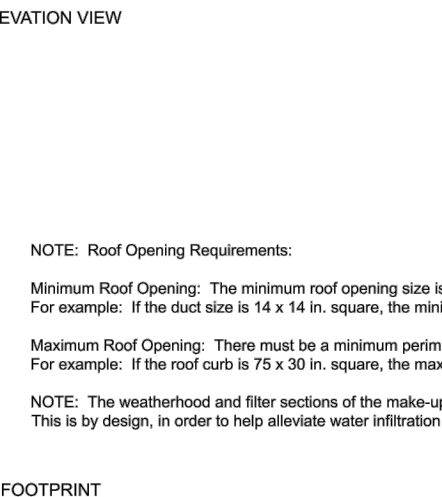
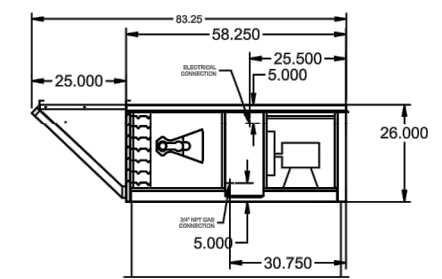
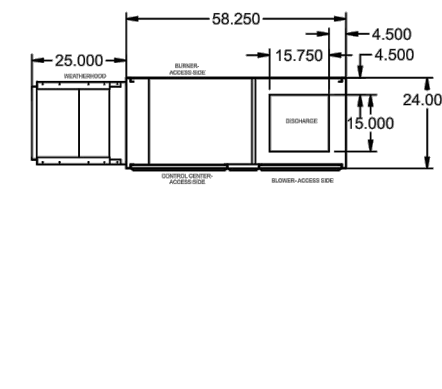


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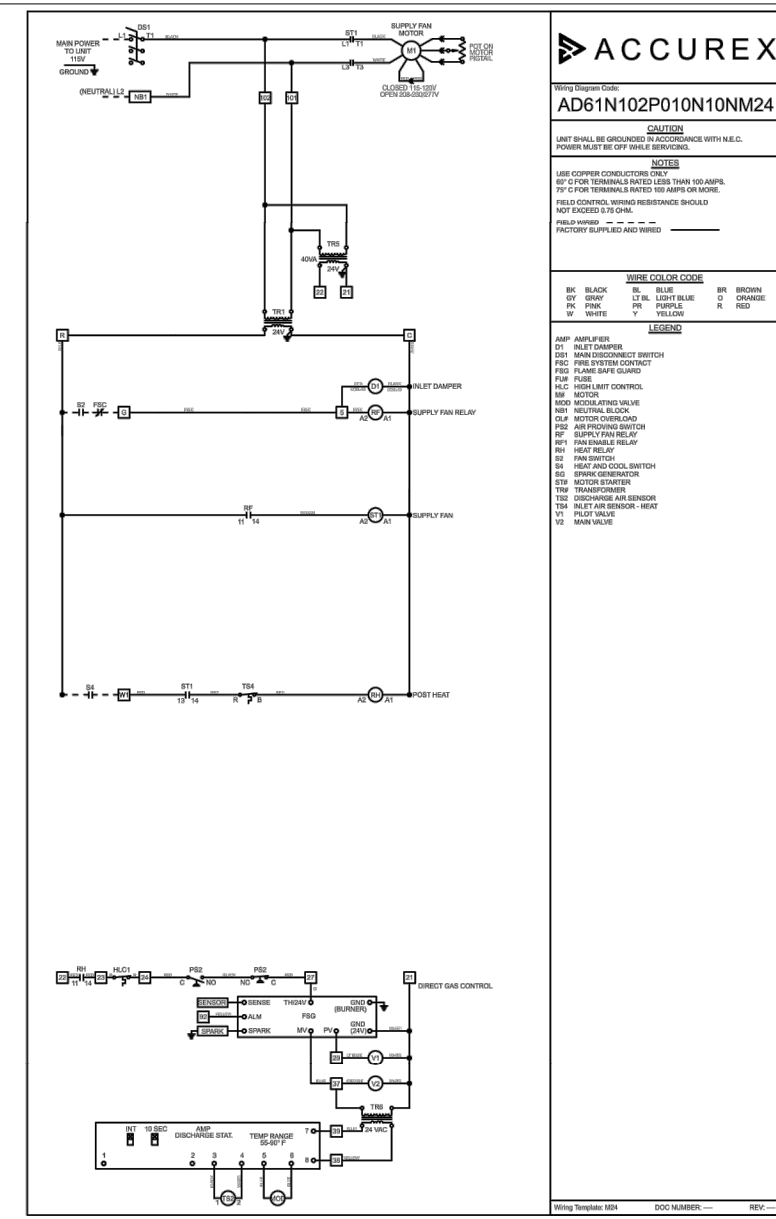
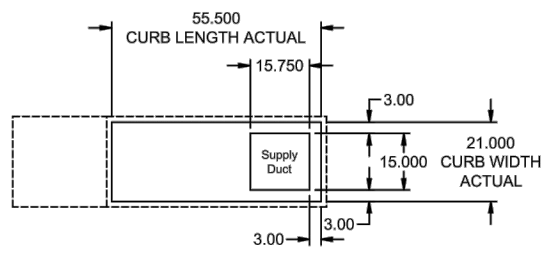
DICKEYS BBQ - KENT OH  
 EF-1

**ACCUREX**

EQUIPMENT SCHEDULE											
QTY	MARK	DESCRIPTION	UNIT	MARK	MARK	MARK	MARK	MARK	MARK	MARK	MARK
1	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	1.0000	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT	TEMPERED MAKE-UP AIR DUCT



NOTE: Roof Opening Requirements:  
 Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides. For example: if the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.  
 Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb. For example: if the roof curb is 7.5 x 28 in. square, the maximum roof opening is 71.5 x 28.5 in. inches square.  
 NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb. This is by design, in order to help alleviate water infiltration issues. MUA Unit supports are shipped loose with unit.



PROJECT: 06/2022  
 MUA-1  
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DICKEYS BBQ - KENT OH

**ACCUREX**

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 DALLAS, TEXAS 75205  
 972.248.9899



07/13/22

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
 3975 CASCADES BLVD., SPACE 23A  
 KENT, OH 44240  
 CLIENT: DANIEL LINSWORTH  
 3717 WOODS TRAIL  
 KENT, OH 44240



OH-2193	
DATE	DESCRIPTION
07/08/22	CORPORATE REVIEW
07/13/22	PERMIT ISSUE

DATE	DESCRIPTION

HOOD DRAWINGS

**M4.0**

064 PROJECT NUMBER:  
**DBQ22008**

NOTES:  
 1. THE INFORMATION PRESENTED HERE IS PROVIDED FOR REFERENCE ONLY AND WAS NOT PREPARED BY THE ENGINEER OF RECORD. AS SUCH, THE E.O.R. ASSUMES NO RESPONSIBILITY FOR ERRORS, OMISSIONS, OR CODE COMPLIANCE ISSUES IN THE EXHAUST HOOD MANUFACTURER'S DOCUMENTS.





**UNDER SLAB DWV PIPING NOTES**

1. THE SANITARY SEWER LINE HAS BEEN INSTALLED BY THE DEVELOPER AS PART OF THE SHELL BUILDING AND IS CONSIDERED TO BE EXISTING TO REMAIN WITH RESPECT TO THE TENANT FINISH OUT SCOPE OF WORK.
2. THE UNDER SLAB PIPING FROM THE RESTAURANT FINISH OUT SHALL BE INSTALLED BELOW THE RIBS OF THE STRUCTURAL SLAB FOUNDATION. THE FOUNDATION RIBS SHALL NOT BE CUT OR CORED THROUGH WITHOUT APPROVAL FROM THE SHELL BUILDING ENGINEER.
3. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY THE ACTUAL INVERT ELEVATION OF THE EXISTING SANITARY SEWER PIPING, TO VERIFY THE GREASY WASTE FROM THE RESTAURANT TENANT FINISH THRU THE GREASE INTERCEPTOR SYSTEM RUN OUT HAS SUFFICIENT FALL TO BE INSTALLED AT 1/4" PER FOOT RUN.
4. REPORT ANY POTENTIAL CONFLICTS TO THE TENANT'S CONSTRUCTION MANAGER ASAP.

**GENERAL NOTES**

- A. KEY NOTES WITH ELLIPTICAL SYMBOL AND NUMBER CORRESPOND TO KITCHEN EQUIPMENT SHOWN IN KITCHEN PLAN SHEETS.
- B. ALL EXPOSED PIPING IN PUBLIC AREAS SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE WARM SIDE OF THE EXPOSED STRUCTURE.
- C. THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ALL ELECTRICAL AND MECHANICAL EQUIPMENT, AND STRUCTURAL SLAB AND FRAMING.
- D. REFER TO PLUMBING SHEET P2.0 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES INCLUDING SPECIFICATIONS AND ROUGH-IN SIZES.
- E. REFER TO THE KITCHEN DRAWINGS PREPARED BY THE KITCHEN EQUIPMENT SUPPLIER FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
- F. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT SUPPLIER FOR THE COMPLETE INSTALLATION AND SERVICE CONNECTIONS OF ALL KITCHEN EQUIPMENT.
- G. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL LINES TO KITCHEN EQUIPMENT. REFER TO THE KITCHEN DRAWINGS FOR PROPOSED SIZES AND ROUTINGS. ALL WATER & DRAIN LINES UNDER EQUIPMENT/ MILLWORK SHALL BE INSTALLED SECURELY.
- H. REFER TO ARCHITECTURAL AND MILLWORK DRAWINGS FOR DETAILS OF COUNTERTOPS, CASEWORK, AND OTHER FIXTURES, SHOWING EXACT LOCATION OF OPENINGS FOR PLUMBING ITEMS BEING INSTALLED. COORDINATE THE COMPLETE INSTALLATION WITH THE GENERAL CONTRACTOR.
- I. PLUMBING CONTRACTOR TO FLUSH AND SANITIZE ALL WATER LINES PRIOR TO THE INSTALLATION OF THE FILTRATION SYSTEM.
- J. ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE MOVEMENT. FINAL CONNECTIONS TO KITCHEN SINKS SHALL BE HARD PIPED.
- K. ALL EXISTING SANITARY WASTE LINES SHALL BE INSPECTED AND CLEARED OF ANY DEBRIS AND CAMERA SCOPED TO VERIFY THEY ARE IN GOOD WORKING CONDITION FOR INTENDED REUSE. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY REMEDIATION WORK IS REQUIRED.

**KEYED NOTES**

1. CONNECT NEW SANITARY SEWER LINE TO EXISTING SANITARY SEWER MAIN. FIELD VERIFY EXISTING DEPTH, LOCATION & SUFFICIENT SIZE PRIOR TO BID.
2. EXTEND NEW GREASE WASTE LINE THE EXISTING 1,250 GALLON GREASE INTERCEPTOR. CONTRACTOR TO COORDINATE PROPOSED ROUTING WITH SITE UTILITIES, GRADING, LANDSCAPING, CONCRETE WORK & CIVIL PLANS.
3. REFER TO SHEET P2.0 FOR BACKFLOW SCHEDULE FOR PROPER DEVICE FOR EACH EQUIPMENT TYPE.
4. 3/4" GAS COMPLETE W/SOC AND UNION (102 CFH) FOR FRYER. FLEXIBLE HOSE CONNECTION WITH QUICK DISCONNECT PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.
5. FIELD COORDINATE THE INSTALLATION OF THE INLINE HOT WATER RECIRCULATION PUMP, EXPANSION TANK AND CHECK VALVE ASSEMBLY.
6. CONDENSATE DRAIN DOWN FROM ROOF & ROUTE ABOVE CEILING AND TERMINATE INTO MOP SINK WITH AN AIR GAP. REFER TO SHEET MEP1.0 FOR CONTINUATION.
7. NO NEW PIPING SHALL BE RUN ABOVE OR BELOW ELECTRIC PANELS.
8. ROUTE THE WATER SUPPLY WITH SHUT-OFF & BACKFLOW PREVENTOR AS SCHEDULED FOR CONNECTION TO THE BAG-N-BOX WATER FILTER ASSEMBLY. THE WATER FILTER SHALL BE FURNISHED AND INSTALLED COMPLETE BY SODA VENDOR & WALL MOUNTED IN AN ACCESSIBLE LOCATION ABOVE THE BAG-N-BOX. THE FILTER SHALL SERVE THE BEVERAGE DISPENSERS AS SHOWN. FIELD COORDINATE THE COMPLETE INSTALLATION.
9. 1/2" CW CONNECTION TO BEVERAGE STATION COMPLETE WITH SHUT-OFF, IN-LINE WATER FILTER & BACKFLOW PREVENTOR.
10. CONNECT NEW 1 1/2" DOMESTIC WATER TAP TO EXISTING TENANT WATER SERVICE. THE TAP SHALL BE INSTALLED COMPLETE WITH NEW SHUT OFF VALVE DOWNSTREAM OF THE EXISTING BACKFLOW PREVENTOR. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION. COORDINATE EXACT LOCATION WITH LANDLORD PRIOR TO CONSTRUCTION.
11. ALL WATER PIPING IN THE COOKLINE WALL WITHIN 18" OF THE TYPE 1 EXHAUST HOOD SHALL BE INSTALLED AS RIGID COPPER PIPE. NO PLASTIC TUBING ALLOWED.
12. EXTEND 1/2" HW/CW SUPPLY TAPS AS SHOWN. INSTALL COMPLETE WITH STOPS AND HOT WATER TEMPERING VALVE.
13. EXTEND HW & CW LINES DOWN IN WALL & ROUTE IN LOW WALL AS SHOWN.
14. ROUTE WALK-IN COOLER CONDENSATE DRAIN LINE AS HIGH AS POSSIBLE AND ALONG WALLS AS SHOWN. INSULATE ALL CONDENSATE PIPING AND PITCH A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. SEAL ALL COOLER WALL PENETRATIONS WATER TIGHT AND COVER EACH WITH AN ESCUTCHEON PLATE. PROVIDE FULL SIZE TRAP AND EXTEND ABOVE FLOOR AND BEHIND EQUIPMENT FOR AN INDIRECT CONNECTION TO AN APPROVED RECEPTOR.
15. FIXTURE DRAIN IS CONNECTED TO A HORIZONTAL BRANCH DRAIN AND IS CONSIDERED CIRCUIT VENTED PER SECTION 914.1 OF THE 2017 OPC.
16. ROUTE THE WATER SUPPLY PIPING WITH SHUT-OFF & BACKFLOW PREVENTOR AS SCHEDULED TO THE WATER FILTER ASSEMBLY PRIOR TO FINAL CONNECTION TO THE ICE MAKER EQUIPMENT & BEVERAGE EQUIPMENT AS SHOWN. THE WATER FILTER ASSEMBLY SHALL BE FURNISHED BY OWNER & INSTALLED BY THE PLUMBING CONTRACTOR.
17. GAS PIPING TO BE ROUTED DOWN THROUGH ROOF. REFER TO MEP1.0 FOR CONTINUATION OF PIPING ON ROOF.
18. MECHANICAL GAS ANSUL VALVE TO BE INSTALLED ABOVE IN AN ACCESSIBLE LOCATION. EXTEND GAS DOWN FOR COOKING APPLIANCES TO FULL SIZED MANIFOLD 12" AFF, INSTALLED TIGHT TO WALL.
19. 1/2" CW CONNECTION TO TEA BREWER COMPLETE WITH SHUT-OFF, IN-LINE WATER FILTER & BACKFLOW PREVENTOR.
20. 3/4" GAS COMPLETE W/SOC AND UNION (125 CFH) FOR GRIDDLE. FLEXIBLE HOSE CONNECTION WITH QUICK DISCONNECT PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.
21. 3/4" CW DOWN TO OVEN CONNECTION COMPLETE WITH SHUT-OFF, BACKFLOW PREVENTOR & INLINE WATER FILTER PER MANUFACTURER'S REQUIREMENTS.
22. ROUTE THE T&P DRAINS FROM THE TANK TYPE WATER HEATER INTO FLOOR SINK AND TERMINATE WITH AN INDIRECT CONNECTION.
23. ROUTE THE COMBUSTION EXHAUST CONDENSATE DRAINS FROM THE TANK TYPE WATER HEATER INTO FLOOR SINK AND TERMINATE WITH AN INDIRECT CONNECTION.
24. SLEEVE & INSULATE CONTINUOUS PIPING UNDER SLAB. STUB-UP AND ROUTE IN DIE BAR TO FIXTURES/EQUIPMENT. SLAB PENETRATIONS SHALL BE SEALED WATER TIGHT AND LEVELED FLUSHED WITH FINISHED FLOOR.
25. COORDINATE INSTALLATION OF ACCESSIBLE TRAP PRIMER VALVE BELOW THE LAVATORY. VALVE SHALL BE RECESSED IN THE WALL AND COVERED WITH ACCESS PANEL.
26. 1/2" CW BELOW FLOOR, FROM TRAP PRIMER TO RECEPTOR.
27. ROUTE THE 3/4" HOT WATER RETURN TO THE INLINE RECIRCULATION PUMP AND CHECK VALVE ASSEMBLY MOUNTED ABOVE THE FINISHED CEILING, PRIOR TO CONNECTION TO THE COLD WATER SUPPLY.
28. FIELD COORDINATE INSTALLATION OF THE VTR'S AS SHOWN. PROVIDE MINIMUM 10"-0" HORIZONTAL CLEARANCE FROM MECHANICAL INTAKES.
29. PROVIDE A 6" PVC SLEEVE FOR ROUTING OF SODA LINES FROM THE BACK OF HOUSE TO THE RESPECTIVE BEVERAGE STATION AS SHOWN. THE SLEEVE SHALL BE LOCATED OVER HEAD & BE INSTALLED WITH STRAIGHT RUNS AND 90° FULL RADIUS SWEEPS. 45° ELBOWS ARE NOT ALLOWED. REFER TO THE KITCHEN PLANS FOR ADDITIONAL INFORMATION.

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07/13/22

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
3975 CASCADES BLVD., SPACE 23A  
KENT, OH 44240

CLIENT: DANIEL UNSWORTH  
3717 WOODS TRAIL  
KENT, OH 44240



**OH-2193**

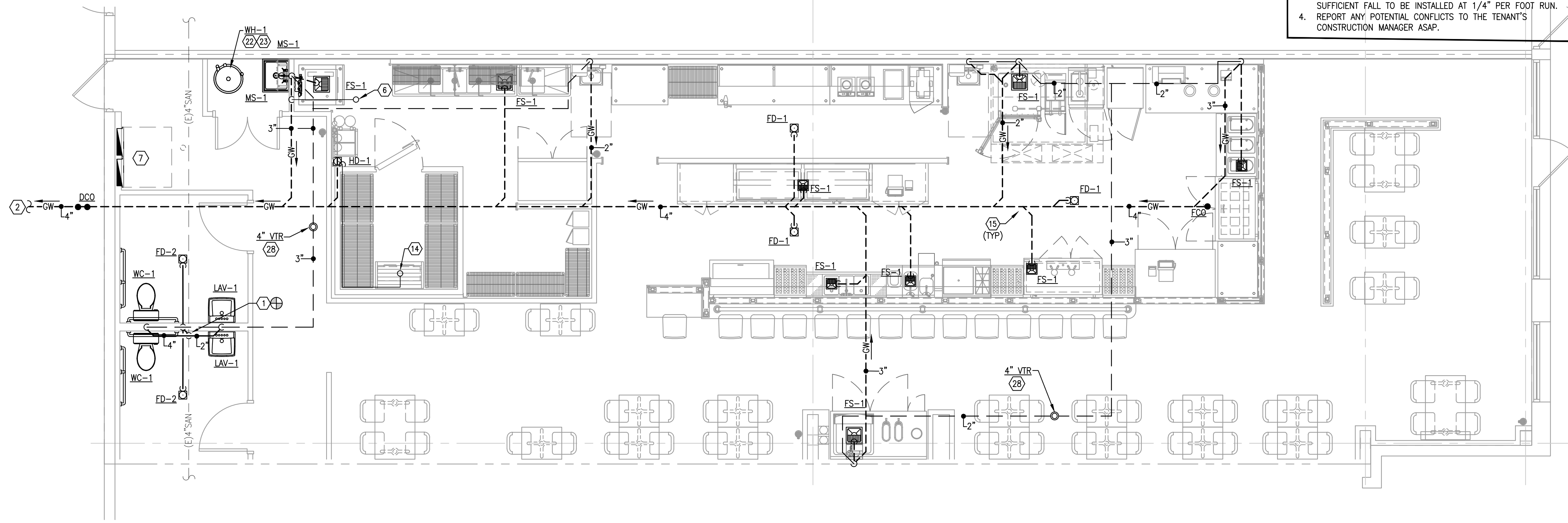
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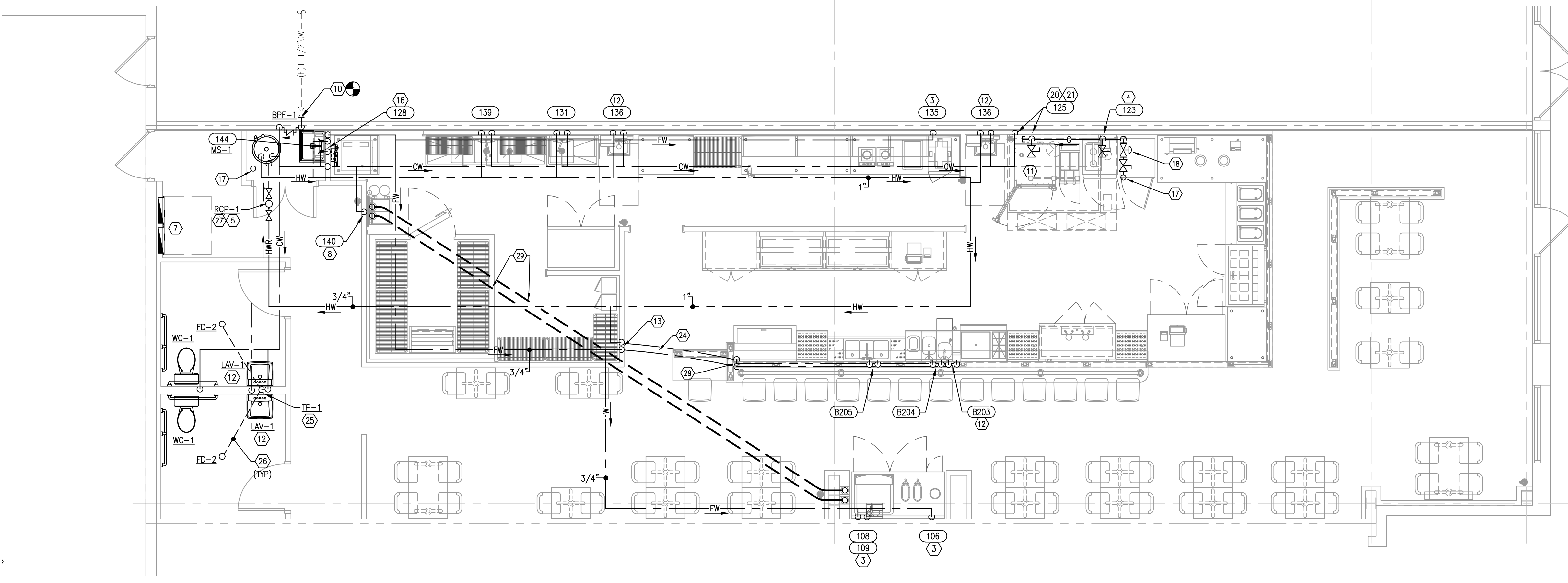
SHEET TITLE:  
**PLUMBING FLOOR PLANS**

SHEET NUMBER:  
**P1.1**

ISSA PROJECT NUMBER:  
**DBQ22008**



**DWV FLOOR PLAN**  
1/4"=1'-0" **1**



**WATER & GAS FLOOR PLAN**  
1/4"=1'-0" **2**

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	ROUGH-IN-SIZE				DESCRIPTION/REMARKS
		S/W	V	CW	HW	
WC-1	WATER CLOSET (ADA)	4"	2"	1 1/2"	-	AMERICAN STANDARD #3461.001.002 WHITE VITREOUS CHINA, FLOOR MOUNTED, ADA COMPLIANT, ELONGATED WATER CLOSET WITH SLOAN #WES-111 FLUSH VALVE, 1.6 GPF. KOHLER #K-4731-SA WHITE ELONGATED OPEN FRONT SEAT-LESS COVER WITH CHECK HINGE STOPS.
LAV-1	LAVATORY	2"	1 1/2"	1/2"	1/2"	AMERICAN STANDARD #0355.012 WALL MOUNTED WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW. INSTALL COMPLETE WITH AMERICAN STANDARD #5400.172H POLISHED CHROME PLATED FAUCET & VANDAL RESISTANT LEVERS, 0.5 GPM AERATOR, GRID DRAIN STRAINER, BRASSCRAFT "COMMERCIAL" RIGID SUPPLIES, ANGLE STOPS & CHROME PLATED 17GA. L.A. PATTERN CAST BRASS P-TRAP WITH SECURED ESCUTCHEON. P-TRAP AND WATER SUPPLIES SHALL BE WRAPPED WITH TRUEBRO LAVAGUARD #102 FOR ADA PROTECTION.
FD-1	FLOOR DRAIN	3"	2"	-	-	ZURN #LC-P3S PVC BODY FLOOR DRAIN WITH #LC-CS CAST IRON ADAPTOR THREADED SHANK, COMPLETE WITH #LC-FR05NI 5" ROUND POLISHED NICKEL FRAME TOP GRATE.
FD-2	FLOOR DRAIN	3"	2"	-	1/2"	ZURN #LC-P3S PVC BODY FLOOR DRAIN AND TRAP PRIMER, WITH #LC-CS CAST IRON ADAPTOR THREADED SHANK, COMPLETE WITH #LC-FR05NI 5" ROUND POLISHED NICKEL FRAME TOP GRATE.
FS-1	FLOOR SINK	3"	2"	-	-	ZURN #FD-2370 12"x12" RADIUSED PVC BODY FLOOR SINK WITH FULL RIM AND SEDIMENT BUCKET STRAINER. COORDINATE GRATE CONFIGURATION WITH KITCHEN ROUGH IN PLANS.
WCO	WALL CLEANOUT	LINE SIZED	-	-	-	ZURN #1443 SQUARE WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND NICKEL BRONZE SECURED SQUARE, SMOOTH WALL ACCESS COVER AND FRAME.
ECO	FLOOR CLEANOUT	LINE SIZED	-	-	-	ZURN #1400 ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND 5" ROUND POLISHED NICKEL BRONZE TOP.
GCO	GROUND CLEANOUT	LINE SIZED	-	-	-	ZURN #1400 ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND 5" CAST IRON TOP.
DCO	DOUBLE CLEANOUT	LINE SIZED	-	-	-	ZURN #CO-2448, PVC CLEANOUT WITH ROUND ADJUSTABLE SCORATED SECURED CAST IRON TOP, GASKET SEAL, CAST IRON PLUG WITH RECESSED SOCKET. INSTALL IN MINIM OF 12"x12"x4" REINFORCED CONCRETE PAD WITH BEVELED EDGES.
HD-1	HUB DRAIN	3"	2"	-	-	FIELD FABRICATED PVC BODY HUB DRAIN WITH BOTTOM OUTLET AND PVC REDUCER. TOP OF THE HUB SHALL BE 6" AFF.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	ZURN #Z1996-24 MOP SINK, INSTALL COMPLETE WITH #Z-1196-SF CHROME PLATED SERVICE FAUCET W/ VACUUM BREAKER, WALL BRACE, PAIL HOOK & HOSE HOLDER, MOP HANGER & 3" DRAIN WITH DEEP SEAL P-TRAP.

PLUMBING EQUIPMENT SCHEDULE						
MARK	FIXTURE	ROUGH-IN-SIZE				DESCRIPTION/REMARKS
		S/W	V	CW	HW	
WH-1	TANK TYPE WATER HEATER	-	-	1 1/4"	1 1/4"	A.O. SMITH #BTH-199, LOW NOX NATURAL GAS FIRED TANK TYPE UNIT COMPLETE WITH T&P VALVE, 100 GAL. CAPACITY, 199,000 BTUH INPUT, 92% EFFICIENCY WITH A 230 GPH RECOVERY AT A 100°F RISE. PROVIDE HOT AND COLD WATER HEAT TRAP FITTINGS/ RISERS.
ET-1	EXPANSION TANK	-	-	3/4"	-	WATTS #PLT-12, WITH STEEL BODY AND BUTYL RUBBER DIAPHRAGM FOR 4.5 GALLONS TOTAL CAPACITY/ 4.8 GALLONS ACCEPTANCE CAPACITY, 40 PSI FACTORY PRE-CHARGED.
RCP-1	RECIRCULATION PUMP	-	-	-	3/4"	GRUNDFOS #UP15-10B7 INLINE HOT WATER OPEN SYSTEM RECIRCULATING PUMP, CAPABLE OF 4.0 GPM (140°F) @ 4' HEAD, 1/25 HP, 115V/1PH, INTEGRAL ATTACHED TIMER FOR OPERATION CONTROLS, AND ATTACHED POWER CORD.
TP-1	TRAP PRIMER	-	-	1/2"	-	PPP, INC. #PR-500 "PRIME RITE" TRAP PRIMER, BRONZE CONSTRUCTION WITH VACUUM PORTS, ADJUSTABLE WITH 1/2" COPPER TYPE "L" TO RECEPTOR. PROVIDE DISTRIBUTION UNIT AS REQUIRED FOR SUPPLY TO MULTIPLE DRAINS. INSTALL VALVE RECESSED IN WALL A MINIMUM 12" AFF, PROVIDE ACCESS PANEL.
WHA-1	WATER HAMMER ARRESTER	-	-	LINE SIZED	-	PPP, INC. SERIES SC, FULLY MECHANICAL WATER HAMMER ARRESTER SIZED AND LOCATED PER THE MANUFACTURER SPECIFICATIONS.
MV-1	MIXING VALVE	-	-	1/2"	1/2"	WATTS REGULATOR #LFMMV UNDER SINK THERMOSTATIC MIXING VALVE, WITH BRASS BODY AND INTEGRAL MOUNTING HOLES, TAMPER RESISTANT ENCLOSURE. MOUNTED TO STRUCTURE. SET AT 110°F.
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR SS009 REDUCED PRESSURE ZONE ASSEMBLY WATER SUPPLY SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, THE BODY & ADAPTERS ARE OF STAINLESS STEEL CONSTRUCTION, ALL RUBBER COMPONENTS COMPLY WITH FDA FOOD ADAPTIVE REGULATIONS. THE MODEL IS SUBJECT TO LOCAL HEALTH DEPARTMENT APPROVAL WATTS SB-2.
BFP-1	BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR LFO07 DOUBLE CHECK VALVE ASSEMBLY WATER SERVICE SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS. VERIFY APPROVAL WITH UTILITY AND JURISDICTION PRIOR TO INSTALLATION.
BFP-2	BACKFLOW PREVENTER	-	-	LINE SIZED	-	WATTS REGULATOR SD-3 DUAL CHECK WITH ATMOSPHERIC PORT. WATER SUPPLY TO BEVERAGE FIXTURE APPLIANCES, SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR CONTINUOUS OR INTERMITTENT PRESSURE, STAINLESS STEEL BODY CONSTRUCTION AND ALL RUBBER INTERNAL COMPONENTS.

GREASE INTERCEPTOR CALCULATION				
TAG	DESCRIPTION	QTY.	DFU'S	TOTAL (DFU'S)
FD-1	FLOOR DRAIN	3	3	9
FS-1	FLOOR SINK	7	3	21
MS-1	MOP SINK	1	3	3
--	HAND SINK	2	2	4
HD-1	HUB DRAIN	1	3	3
TOTAL DFU'S				40

NOTE(S):

- CALCULATIONS WERE PERFORMED PER 2017 OHIO PLUMBING CODE.
- (1) 1,250 GALLON INTERCEPTORS WILL BE ACCEPTABLE FOR THIS SITE.
- EXISTING GREASE INTERCEPTOR IS 1,250 GALLONS.

GAS DEMAND LOAD					
NO.	DESCRIPTION	CONN. SIZE	QTY.	INPUT (MBH/EA)	TOTAL (MBH)
123	FRYER	3/4"	1	102	102
125	COMBI OVEN	3/4"	1	119	119
(E)RTU-1	EXIST. ROOFTOP UNIT 1	--	1	180	180
(E)RTU-2	EXIST. ROOFTOP UNIT 2	--	1	180	180
MUA-1	MAKE UP AIR UNIT 1	3/4"	1	88	88
WH-1	WATER HEATER	3/4"	1	199	199
COOKING APPLIANCE SUB-TOTAL					221
WATER HEATING SUB-TOTAL					199
HVAC SUB-TOTAL					448
GAS DEMAND TOTAL (MBH)					868,000
GAS DEMAND TOTAL (BTUH)					868,000
GAS DEMAND TOTAL (CFH)					868

NOTE(S):

- THE ACTUAL LENGTH TO THE MOST REMOTE APPLIANCE CONNECTION IS 175'-0". THE SYSTEM IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 300'-0".
- THE SERVICE TO THE TENANT SPACE SHALL BE INSTALLED AS A LOW PRESSURE SUPPLY (INLET PRESSURE OF 0.5 PSI) AND A 0.5" WC PRESSURE DROP.
- PIPE SIZES SHOWN ON THE RISER DIAGRAM ARE BASED ON THE 2017 OHIO PLUMBING CODE, WITH CITY AMENDMENTS. VERIFY FIELD CONDITIONS FOR ACTUAL DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES.
- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY FOR THE PROVISION OF THE COMPLETE METER ASSEMBLY INCLUDING REGULATOR AND VENTING REQUIREMENTS.

KITCHEN H.W. DEMAND			
ITEM	QTY.	GPH	TOTAL GPH
LAVATORY	2	5	10
KITCHEN HAND SINK	2	5	20
1 COMP SINK	1	20	20
3 COMPARTMENT SINK	1	60	60
SERVICE SINK FAUCET	1	15	15
TOTAL			125

HOT WATER CALCULATIONS:

PEAK DEMAND

- 125 GPH (PEAK DEMAND) X 0.40 (DEMAND FACTOR) = 50 GPH.
- 50 GPH (PEAK DEMAND) / 60 MIN./HR = 0.8 GPM.
- 50°F DOMESTIC SUPPLY WATER TEMPERATURE.
- 140°F DESIGN SUPPLY HOT WATER FOR KITCHEN.
- 500 GPM X ΔT = MIN. OUTPUT BTUH REQUIRED AT WATER HEATER. (500)(.8)(90) = 36,000 BTUH.

PROBABLE DEMAND

- 50 GPH (PROBABLE DEMAND) X 0.40 (DEMAND FACTOR) = 20 GPH.
- 20 GPH (DEMAND) X 1.0 (STORAGE FACTOR) = 20 GALS.
- 34 GPH (PROBABLE DEMAND) / 60 MIN./HR = 0.5 GPM.
- 50°F DOMESTIC SUPPLY WATER TEMPERATURE.
- 140°F DESIGN SUPPLY HOT WATER FOR KITCHEN.
- 500 GPM X ΔT = MIN. OUTPUT BTUH REQUIRED AT WATER HEATER. (500)(.5)(90) = 22,500 BTUH.

CAPACITY PROVIDED

- (1) GAS FIRED TANK TYPE WATER HEATER WITH 199 CFH INPUT CAPACITY 231 GPH AT 140°F AND 100 GALLON CAPACITY.

PIPING MATERIAL SCHEDULE		
1.	WATER PIPE (ABOVE GROUND)	UPONOR CROSSLINKED POLYETHYLENE (PEX-α) PIPING MEETING ASTM F 877, SDR 9 STANDARDS WITH MANUFACTURER AVAILABLE ENGINEERED POLYMER (EP) COLD EXPANSION FITTINGS AND PEX REINFORCING RINGS MEETING ASTM F 1960. PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL NOT BE INSTALLED WHERE IT IS EXPOSED TO SUNLIGHT. FIELD COORDINATE THE INSTALLATION OF MANUFACTURED PIPING COLOR AND PIPING LENGTHS TO RUN AS STRAIGHT AS POSSIBLE UTILIZING PEX-α PIPE SUPPORTS. ALL PIPING AND FITTINGS SHALL BE BY THE SAME MANUFACTURER.
2.	WATER PIPE (BELOW GROUND)	UPONOR CROSSLINKED POLYETHYLENE (PEX-α) PIPING MEETING ASTM F 877, SDR 9 STANDARDS. NO JOINTS OR FITTINGS SHALL BE INSTALLED BELOW THE BUILDING SLAB. FIELD COORDINATE THE INSTALLATION OF MANUFACTURED PIPING COLOR AND PIPING LENGTHS TO RUN AS STRAIGHT AS POSSIBLE. ALL PIPING AND FITTINGS SHALL BE BY THE SAME MANUFACTURER.
3.	WATER PIPE (INSULATION)	BOTH HOT AND COLD WATER PIPING SHALL BE INSTALLED COMPLETE WITH INSULATION EITHER IN CONCEALED OR EXPOSED LOCATIONS. REFER TO GENERAL NOTES FOR INSULATION THICKNESS INFORMATION.
4.	SEWER AND VENT PIPE (ABOVE AND BELOW GRADE)	DWV SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPING.
5.	CONDENSATE DRAIN PIPE AND INDIRECT DRAINAGE PIPE (INTERIOR TO BUILDING)	TYPE "M" COPPER WITH 95/5 SILVER SOLDER JOINT FITTINGS. INSULATE CONDENSATE PIPING WITH 1/2" ARMAFLEX CLOSED CELL PIPE INSULATION WITH SELF SEALING ADHESIVE JOINTS, OR EQUIVALENT.
6.	CONDENSATE DRAIN PIPE (EXTERIOR TO BUILDING)	TYPE "M" COPPER WITH 95/5 SILVER SOLDER JOINT FITTINGS.
7.	GAS PIPE	SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS, WELDED JOINTS FOR PIPE 2-1/2" AND LARGER AND FOR ALL JOINTS BELOW GRADE.
8.	SUSPENDED PIPING SUPPORT	SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS 3/8" ALL THREAD ROD AND BEAM CLAMPS. "PLUMBERS TAPE AND WIRE" NOT PERMITTED.

BACKFLOW DEVICE SCHEDULE		
ITEM/ FIXTURE	ITEM/ EQUIPMENT #	BACKFLOW DEVICE
ICE MAKER(S)	128	RPZ-1
IN COMING WATER	--	BFP-1
BAG-N-BOX SODA SYSTEM	140	
TEA BREWER(S)	135	BFP-2
SODA DISPENSER(S)	108	
MOP SINK	144	INTERGAL

PLUMBING LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
— SAN —	S OR W	SOIL OR WASTE (BELOW GRADE)
— GW —	GW	GREASE WASTE
— V —	V	VENT
— CD —	CD	CONDENSATE DRAIN
— ST —	ST	STORM DRAIN
— CW —	CW	COLD WATER
— FW —	FW	FILTERED WATER
— SW —	SW	SOFTENED WATER
— FSW —	FSW	FIRE SERVICE WATER
— HW —	HW	HOT WATER
— HWR —	HWR	HOT WATER RETURN
— RCL —	RCL	RECLAIMED HEAT WATER
— G —	G	GAS, NATURAL OR PROPANE
○	UP	PIPE UP
○	DN	TEE DOWN
○	DN	PIPE DOWN
●	FCO	FLOOR CLEANOUT
●●	DCO	DOUBLE CLEANOUT
— I —	CO	CLEANOUT, WALL OR PIPE
— NO —	SOV	SHUT-OFF VALVE
— NC —	SOV	SHUT-OFF VALVE, NORMALLY OPEN
— NC —	SOV	SHUT-OFF VALVE, NORMALLY CLOSED
— C.V. —	C.V.	CHECK VALVE
— B.V. —	B.V.	BALANCING VALVE
— U —	U	UNION
— P.V. —	P.V.	MECHANICAL PLUG VALVE (GAS)
— SHUT-OFF COCK (GAS) —	SOC	SHUT-OFF COCK (GAS)
— EAAV —	EAAV	EARTHQUAKE ACTUATED AUTOMATIC VALVE (GAS)
— S.V. —	S.V.	ELECTRIC SOLENOID VALVE (GAS)
— P.R. —	P.R.	PRESSURE REGULATOR (GAS)
— POC —	POC	POINT OF CONNECTION
— T&P —	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
— VTR —	VTR	VENT TO ROOF
— HD —	HD	HUB DRAIN
— FD —	FD	FLOOR DRAIN (COORDINATE GRATE REQ'S)
— FS —	FS	FLOOR SINK (COORDINATE GRATE REQ'S)
— RP —	RP	RECIRCULATION PUMP
— HB —	HB	HOSE BIBB
— KEC —	KEC	KITCHEN EQUIPMENT CONTRACTOR
— BTUH —	BTUH	BRITISH THERMAL UNITS PER HOUR
— MBH —	MBH	BTUH X 1000
— CFH —	CFH	CUBIC FEET PER HOUR (1 MBH = 1 CFH)
— (E) —	(E)	EXISTING
— I.E. —	I.E.	INVERT ELEVATION
— CONN —	CONN	CONNECTION
— FU —	FU	FIXTURE UNITS
— GPM —	GPM	GALLONS PER MINUTE
— GPH —	GPH	GALLONS PER HOUR
— HP —	HP	HORSEPOWER
— PSI —	PSI	POUNDS PER SQUARE INCH
— AP —	AP	ACCESS PANEL
— W/ —	W/	WITH
— FLR —	FLR	FLOOR
— CLG —	CLG	CEILING
— ABV —	ABV	ABOVE
— BEL —	BEL	BELOW
— UG —	UG	UNDERGROUND
— DN —	DN	DOWN
— CONT. —	CONT.	CONTINUE
— TYP. —	TYP.	TYPICAL
— FOH —	FOH	FRONT OF HOUSE
— BOH —	BOH	BACK OF HOUSE
— A.D.A. —	A.D.A.	AMERICAN DISABILITIES ACT
— A.F.F. —	A.F.F.	ABOVE FINISH FLOOR
— B.F.F. —	B.F.F.	BELOW FINISH FLOOR

TESTING PROCEDURES	
1.	TEST INSTALLED WATER PIPING AT 100 PSI FOR A PERIOD OF 8 HOURS, OBSERVING FOR ANY VISIBLE LEAKS. TEST PIPING AGAIN WITH FIXTURES INSTALLED.
2.	CHLORINATE ALL WATER PIPING FOR A PERIOD OF 8 HRS, BY CHARGING WITH A HYPOCHLORINATE SOLUTION TO ACHIEVE A 5 PPM STRENGTH AT THE FIXTURE FURTHEST FROM THE POINT OF APPLICATION. UPON COMPLETION OF THE CHLORINATION, FLUSH ALL PIPING UNTIL NO CHLORINE CAN BE DETECTED BY TASTE. CLEAN ALL STRAINERS AND SET WATER FLOWS FROM FIXTURES IN ACCORDANCE WITH MANUFACTURER AND LOCAL REQUIREMENTS.
3.	TEST INSTALLED GAS PIPING AT 60 PSI FOR A PERIOD OF 2 HRS, USING SOAP AND WATER OBSERVING FOR ANY VISIBLE LEAKS AT ALL JOINTS.
4.	TEST INSTALLED WASTE AND VENT PIPING FOR A PERIOD OF 8 HRS, BY CAPPING OR PLUGGING ALL JOINTS TO A LEVEL OF THE HIGHEST FIXTURE OR FITTING. FILL THE SYSTEM WITH WATER AND OBSERVE FOR ANY LEAKS.

PLUMBING GENERAL NOTES	
1.	NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2.	THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
3.	PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONSTRUCTION SHALL CONFORM TO THE 2017 OHIO PLUMBING CODE, WITH CITY AMENDMENTS.
4.	CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
5.	CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.
6.	THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT. ANY DEFECTS IN MATERIALS AND OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIATED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT.
7.	ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC.) ARE DIAGRAMMATIC. CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.
8.	ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
9.	CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
10.	PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
11.	SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS WITH 3/8" ALL THREAD ROD AND BEAM CLAMPS. "PLUMBERS TAPE AND WIRE" NOT PERMITTED.
12.	TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER THE 2017 OHIO PLUMBING CODE, WITH CITY AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
13.	ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
14.	ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE 2017 OHIO PLUMBING CODE, WITH CITY AMENDMENT REQUIREMENTS.
15.	ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
16.	ALL WATER PIPING TO BE INSULATED AS PER THE 2017 OHIO PLUMBING CODE, WITH CITY AMENDMENT REQUIREMENTS: PIPE SIZE      INSULATION THICKNESS      INSULATION VALUE 1/2" THRU 1 1/4"      1"      R = 6.0 1-1/2" THRU 2"      1 1/2"      R = 6.0
17.	CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP., GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
18.	ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.
19.	ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
20.	ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.
21.	UNIONS SHALL BE DRAINED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
22.	PIPING SHALL BE INSTALLED COMPLETE WITH DIELECTRIC UNIONS BETWEEN CONNECTIONS OF NON-FERROUS MATERIALS.
23.	PROVIDE ACCESSIBLE WATER SUPPLY STOP VALVE(S) AT EACH FIXTURE.
24.	PROVIDE A LINE SIZED PRESSURE REDUCING VALVE AT THE BUILDING SERVICE CONNECTION SHOULD THE SUPPLY PRESSURE EXCEED 80 PSI.
25.	ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
26.	NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.
27.	THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
28.	VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE.
29.	ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
30.	ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING.
31.	THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
32.	PIPING LAYOUT IS SCHEMATIC ONLY, EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
33.	NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
34.	WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
35.	EXPOSED PIPING IN THE GUEST AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. EXPOSED GAS PIPING IN THE KITCHEN SHALL BE PAINTED WHITE.
36.	DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
37.	UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOL, MARKINGS AND FOREIGN MATERIAL EXCEPT CONTRACTOR LABELS AND THOSE REQUIRED BY LAW.
38.	PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.
39.	PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF STORE TURNOVER.
40.	ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED WITH WATER SUPPLY STOP VALVES IN ACCESSIBLE LOCATIONS. PROVIDE LINE SIZED BALL VALVES FOR BEVERAGE FIXTURES.
41.	PROVIDE PIPE SUPPORTS AND EXPANSION LOOPS AS REQUIRED.
42.	PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.
43.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.

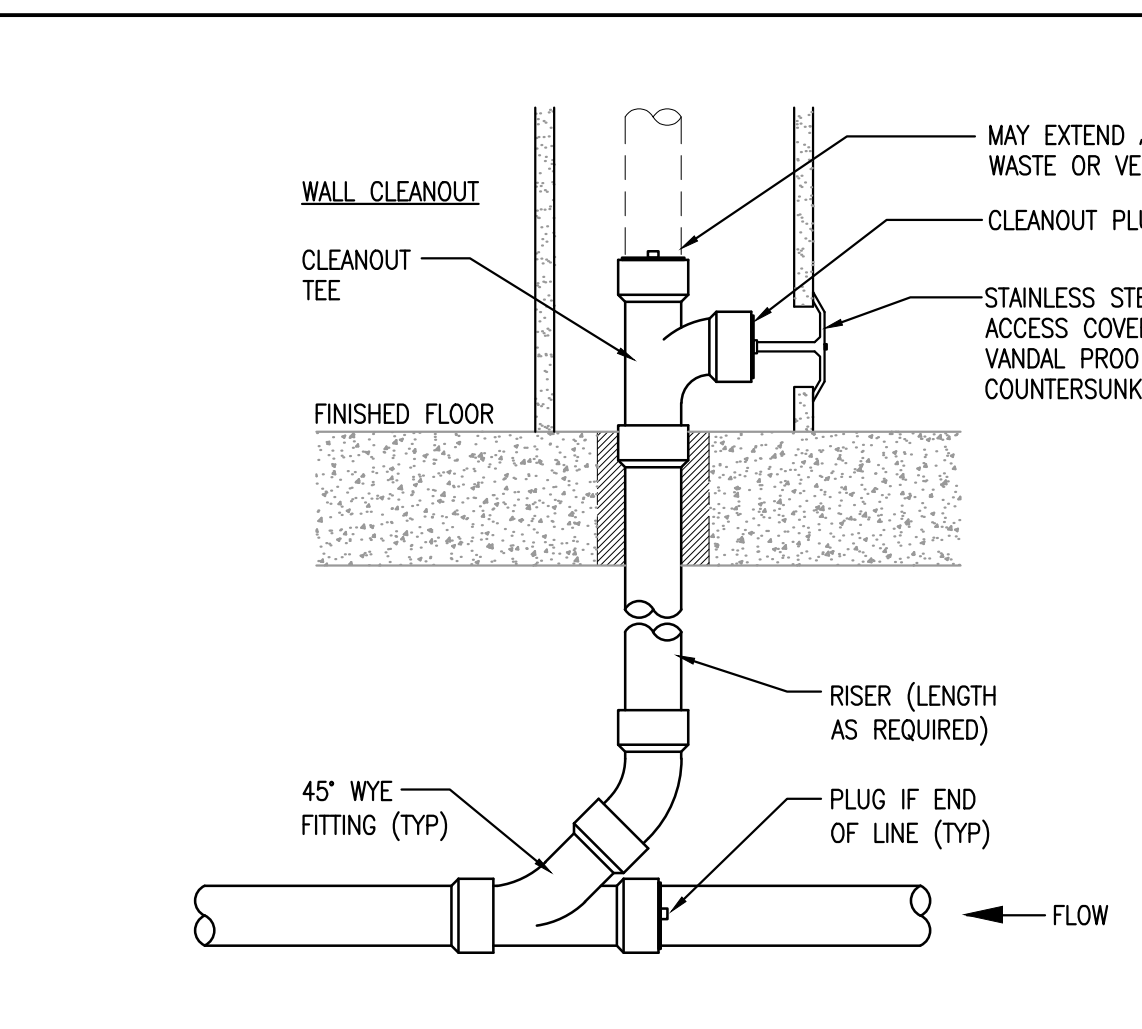
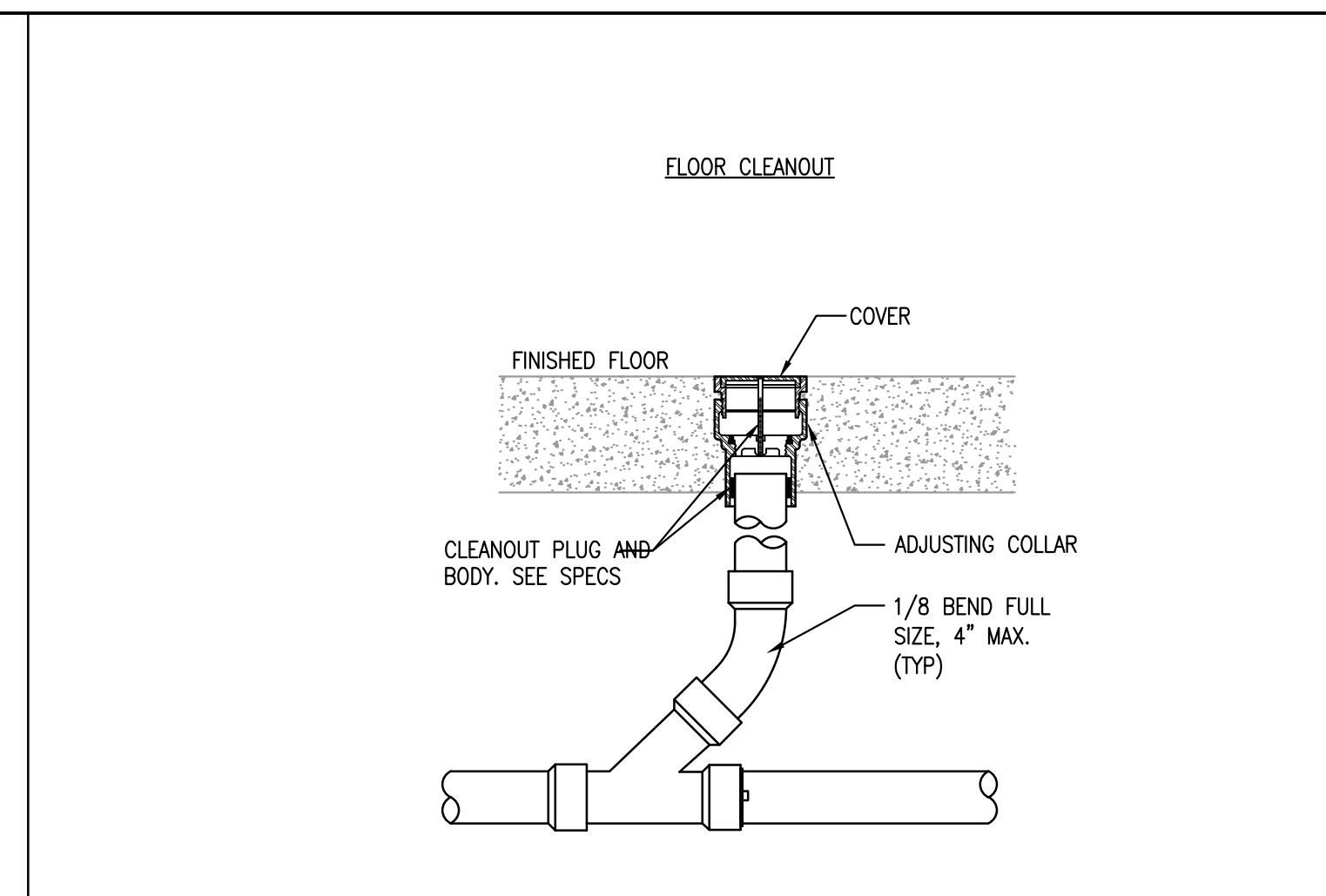
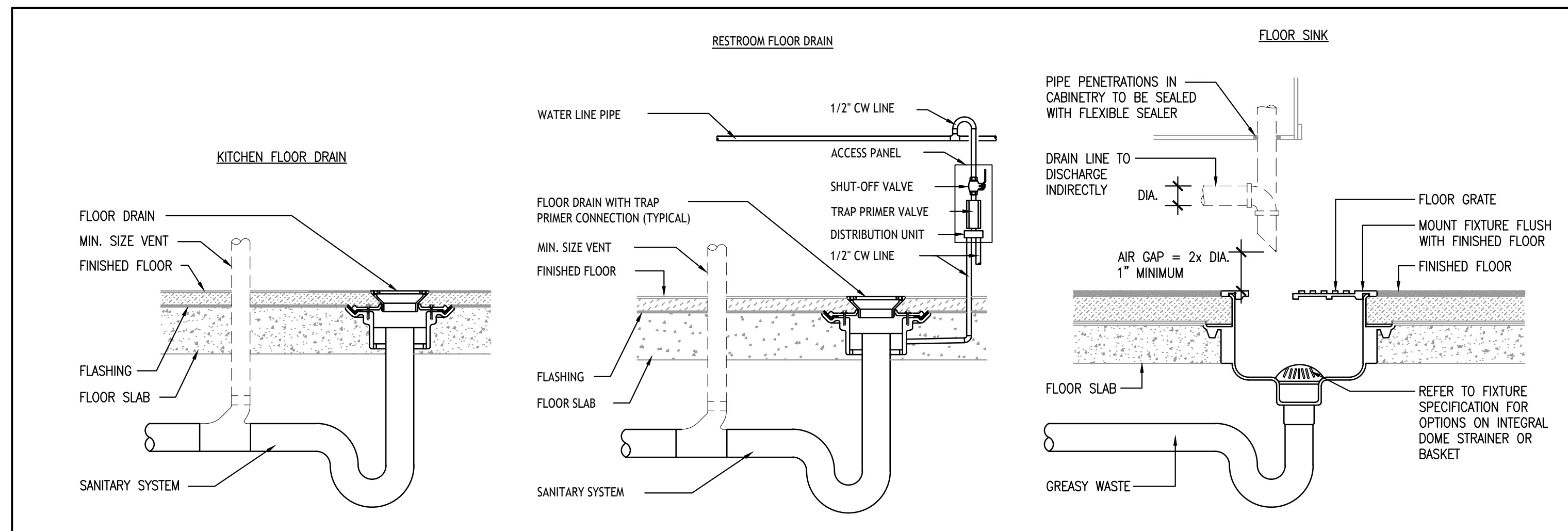
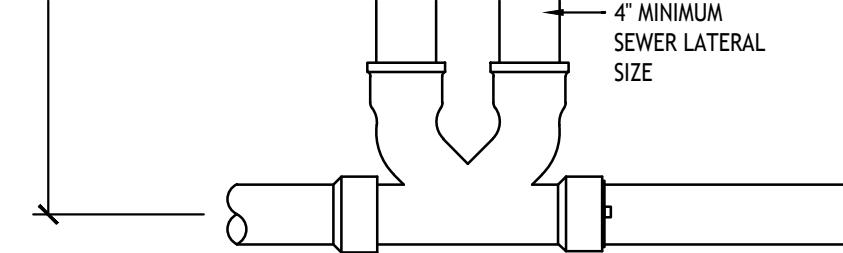
ENGINEER:  
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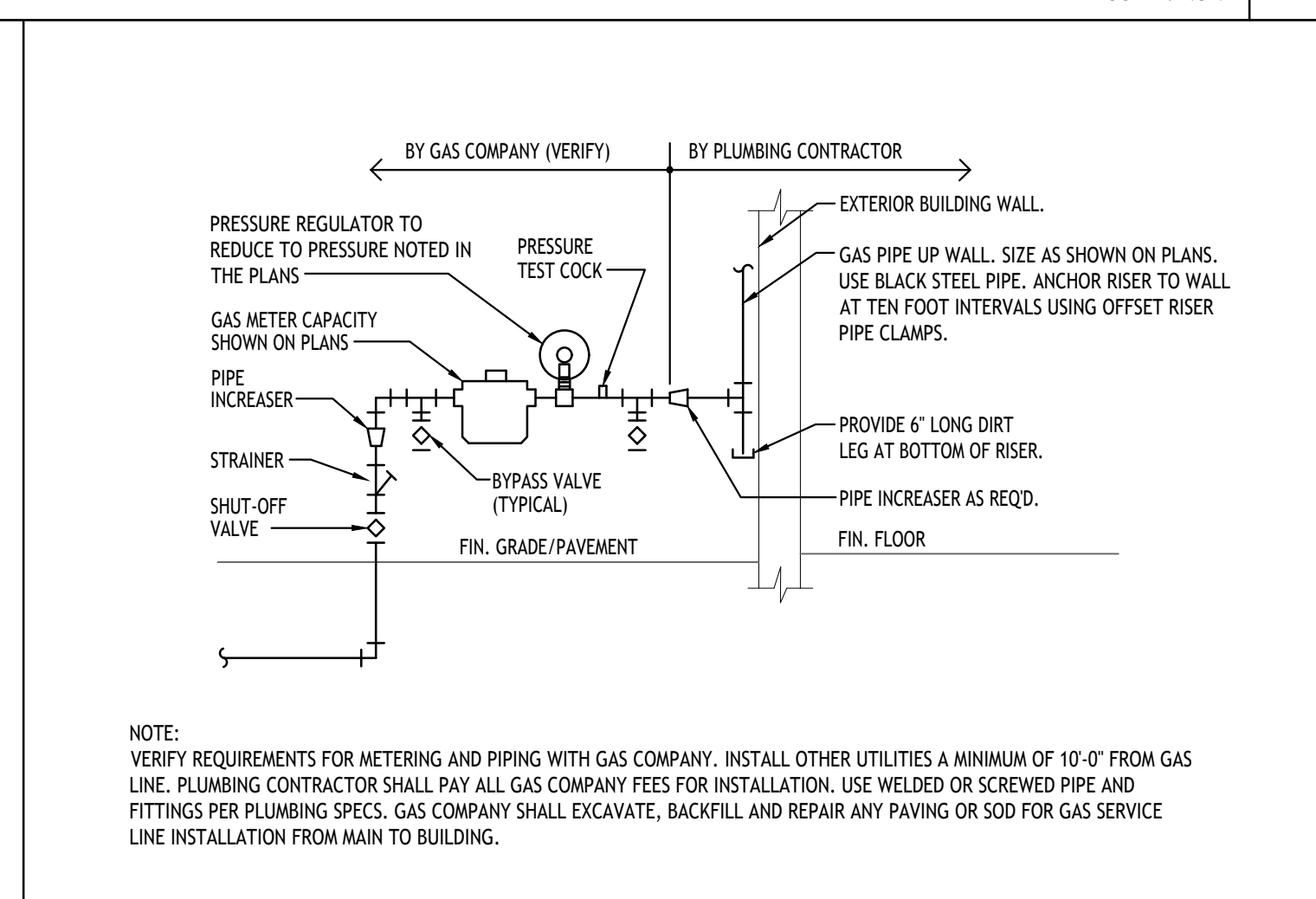
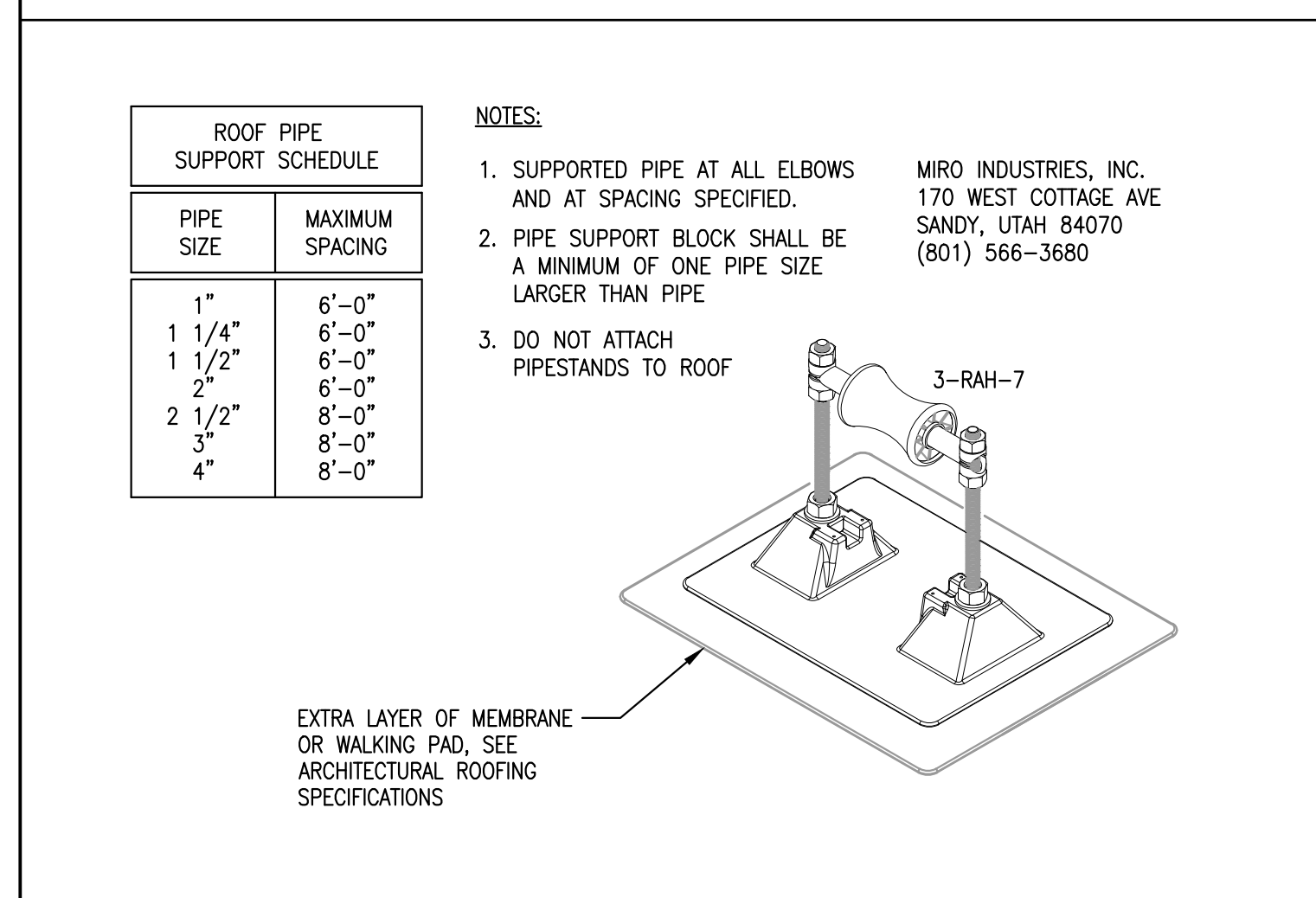
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STATE OF OHIO  
JOHN G. SISK  
E-77154  
REGISTERED PROFESSIONAL ENGINEER

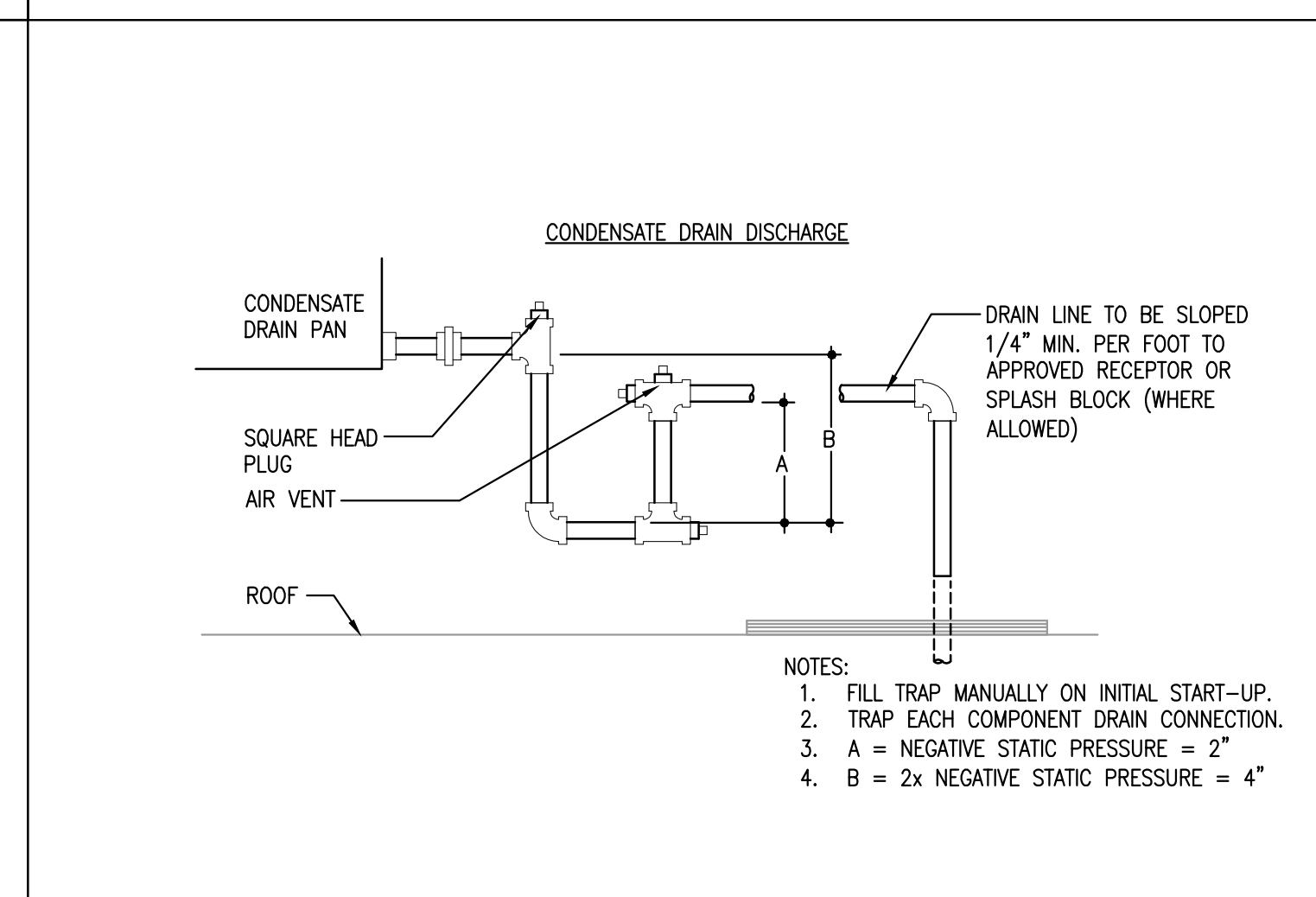
DICKEY'S BBQ PIT  
CASCADES OF BRIMFIELD  
3975 CASCADE



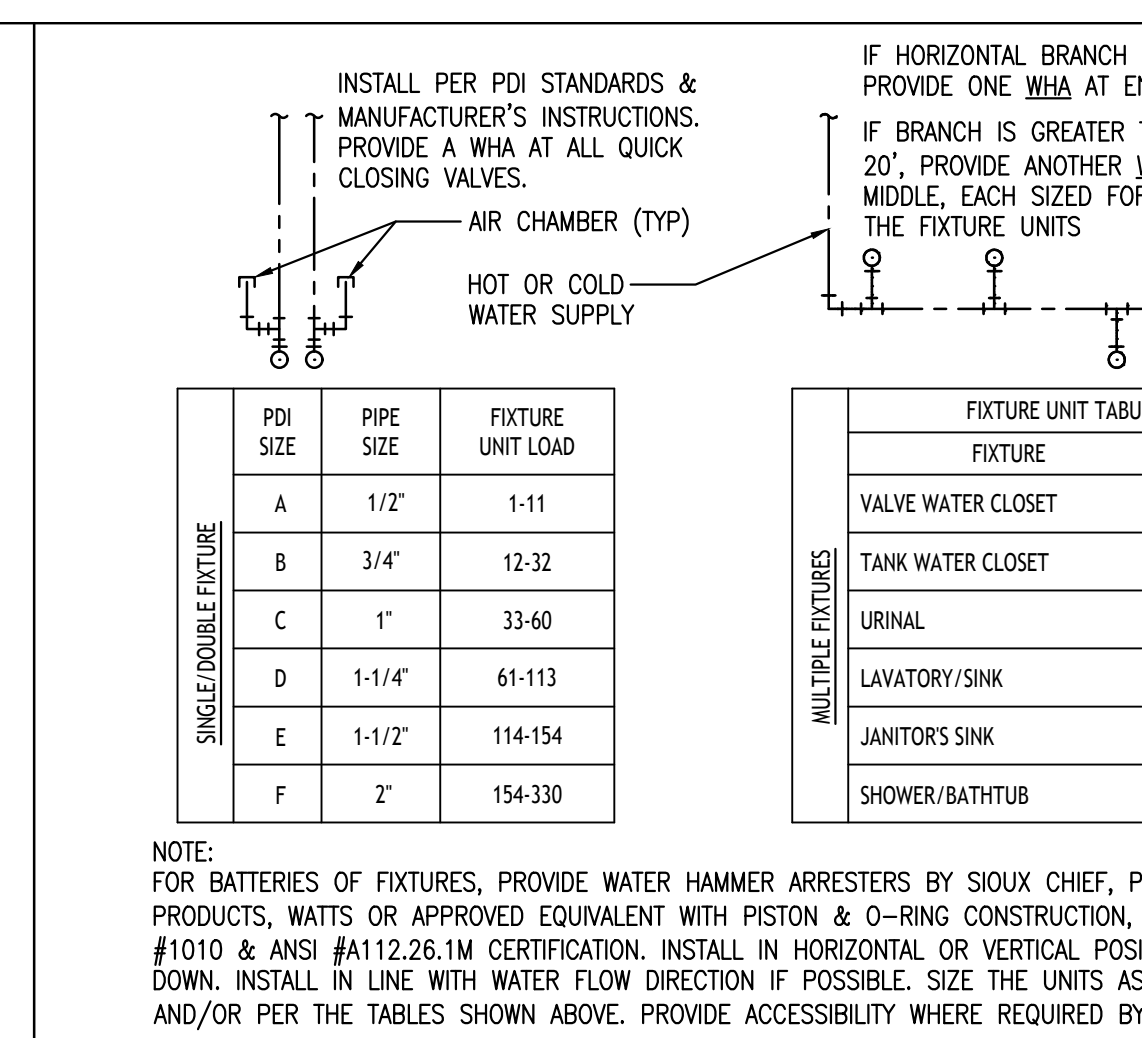
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SCALE: NONE 1



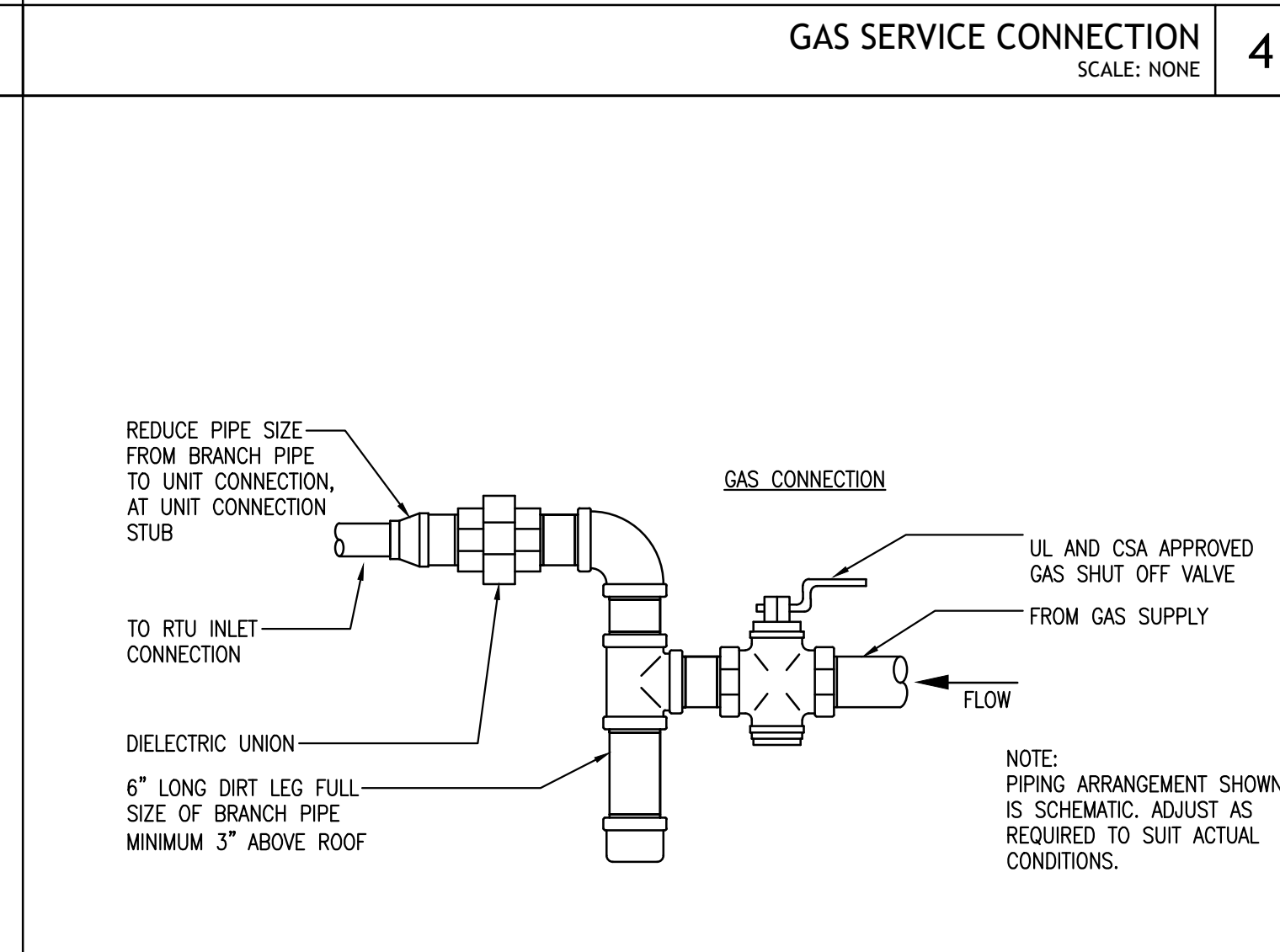
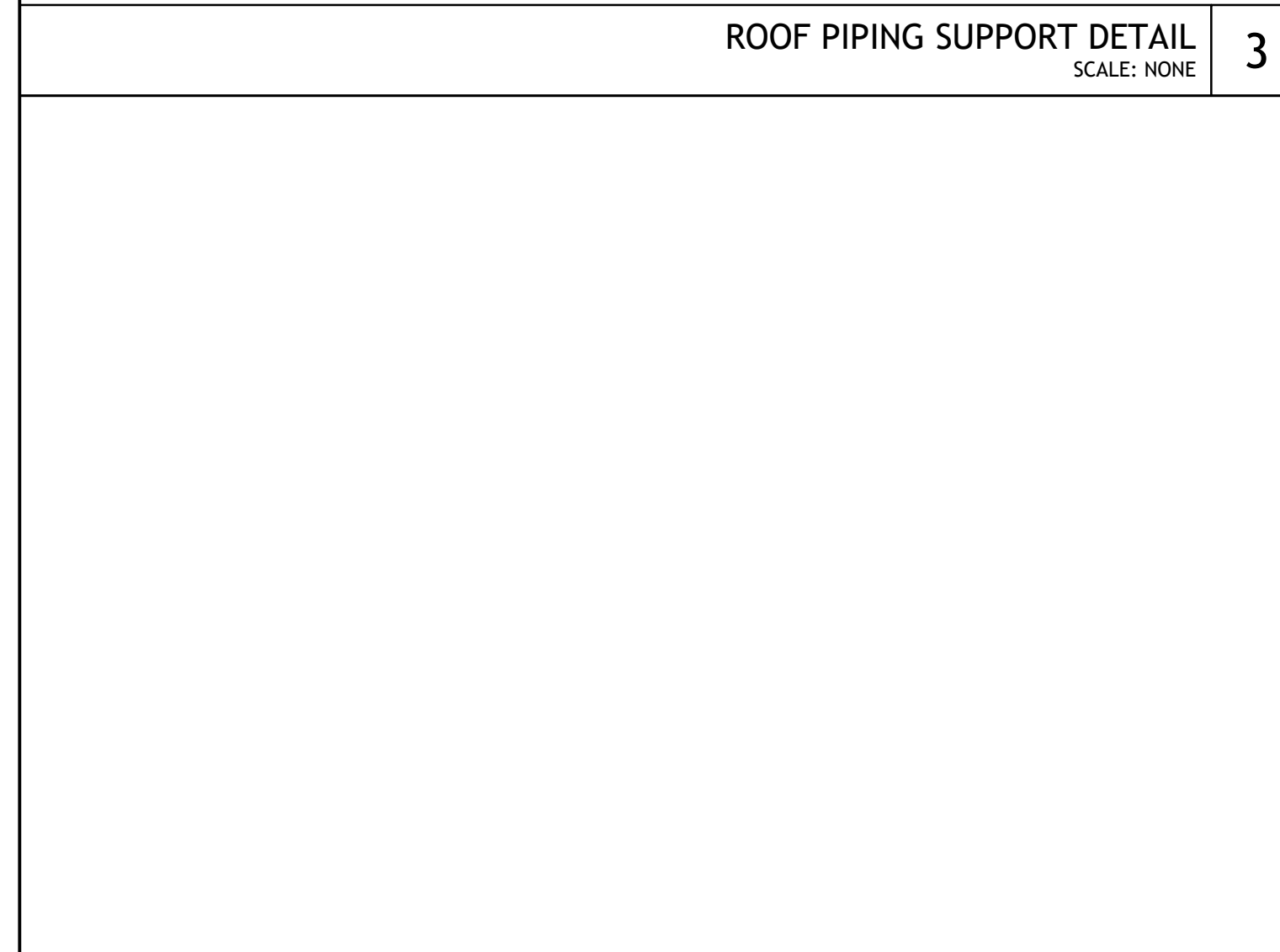
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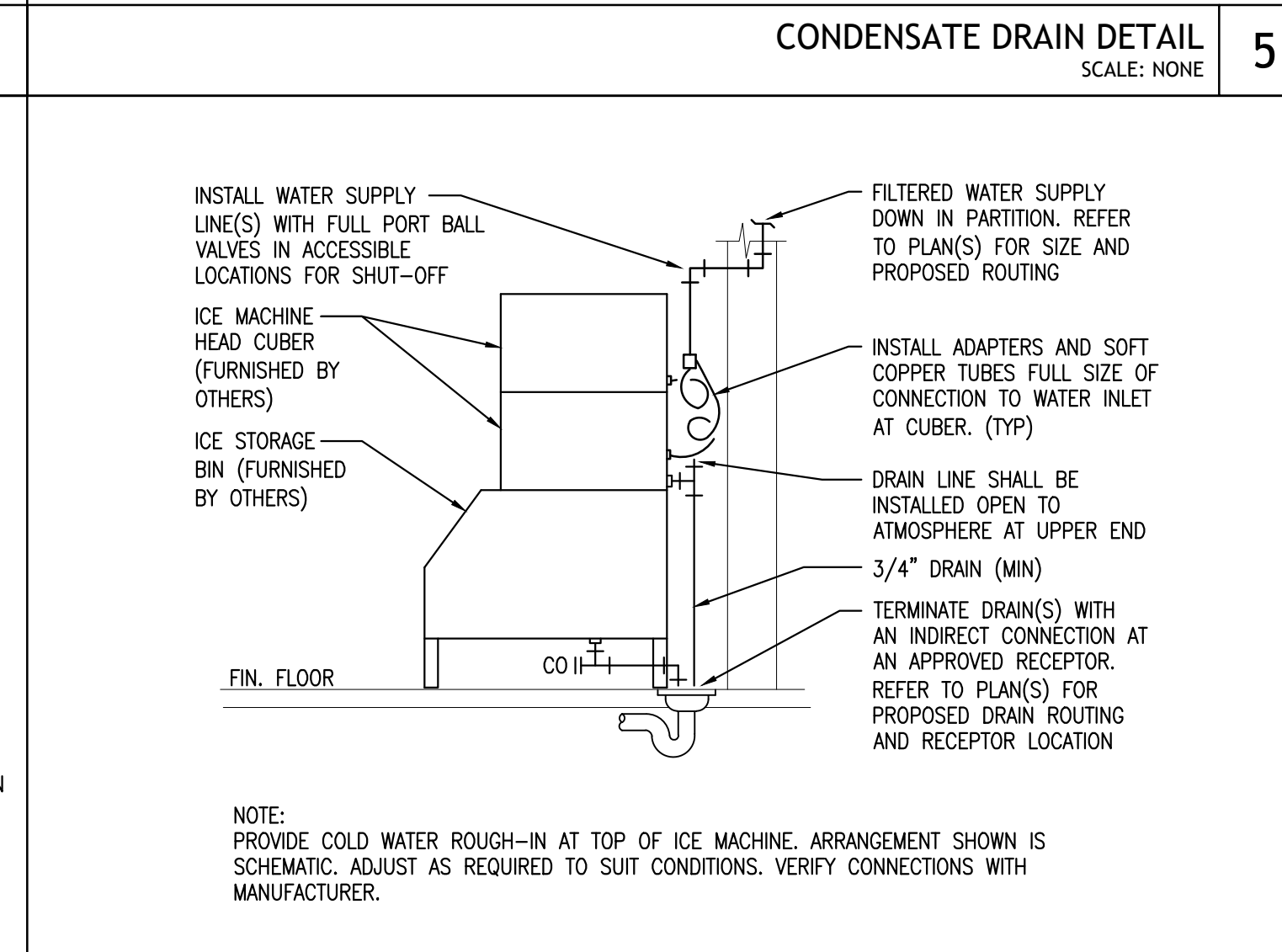
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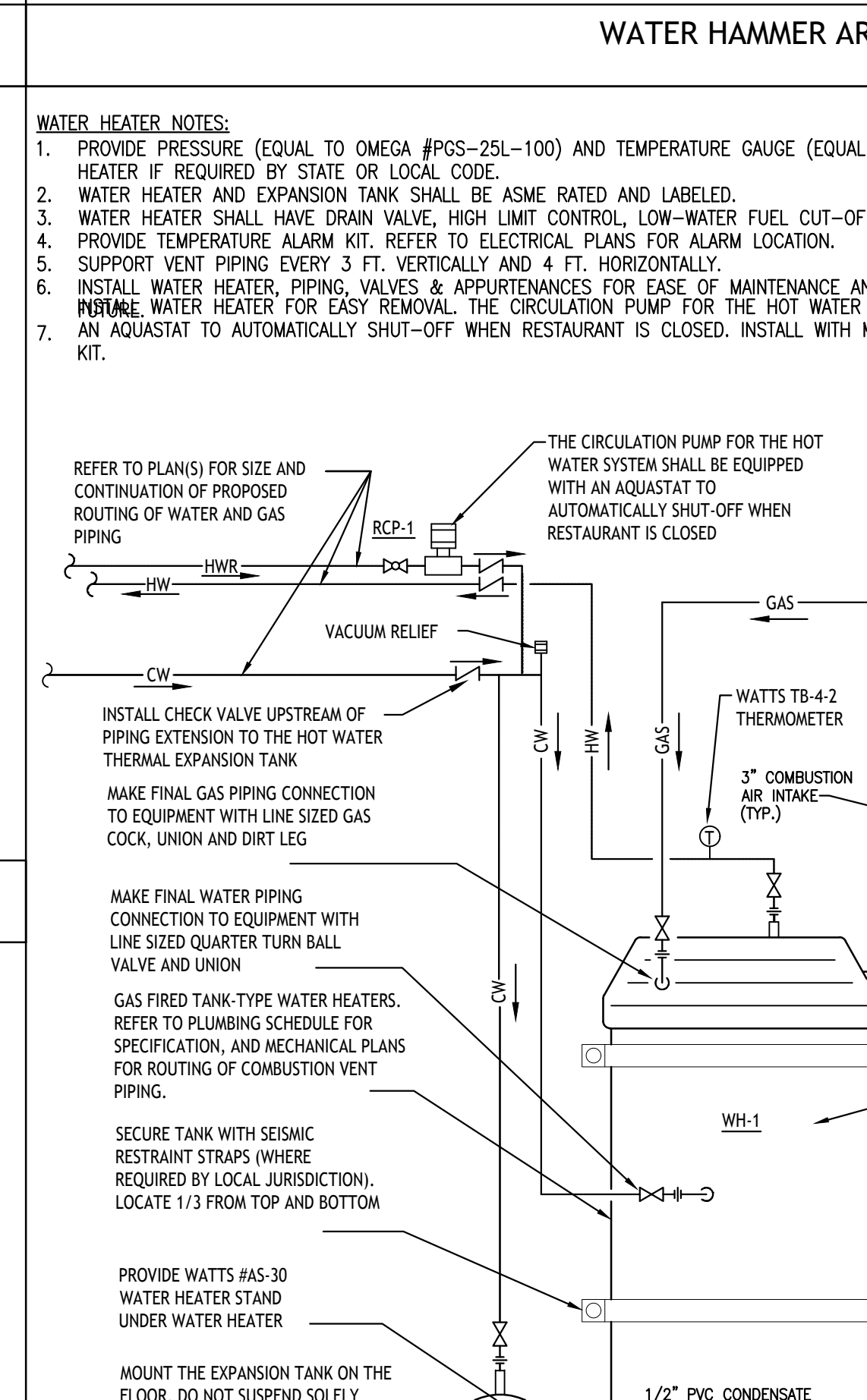
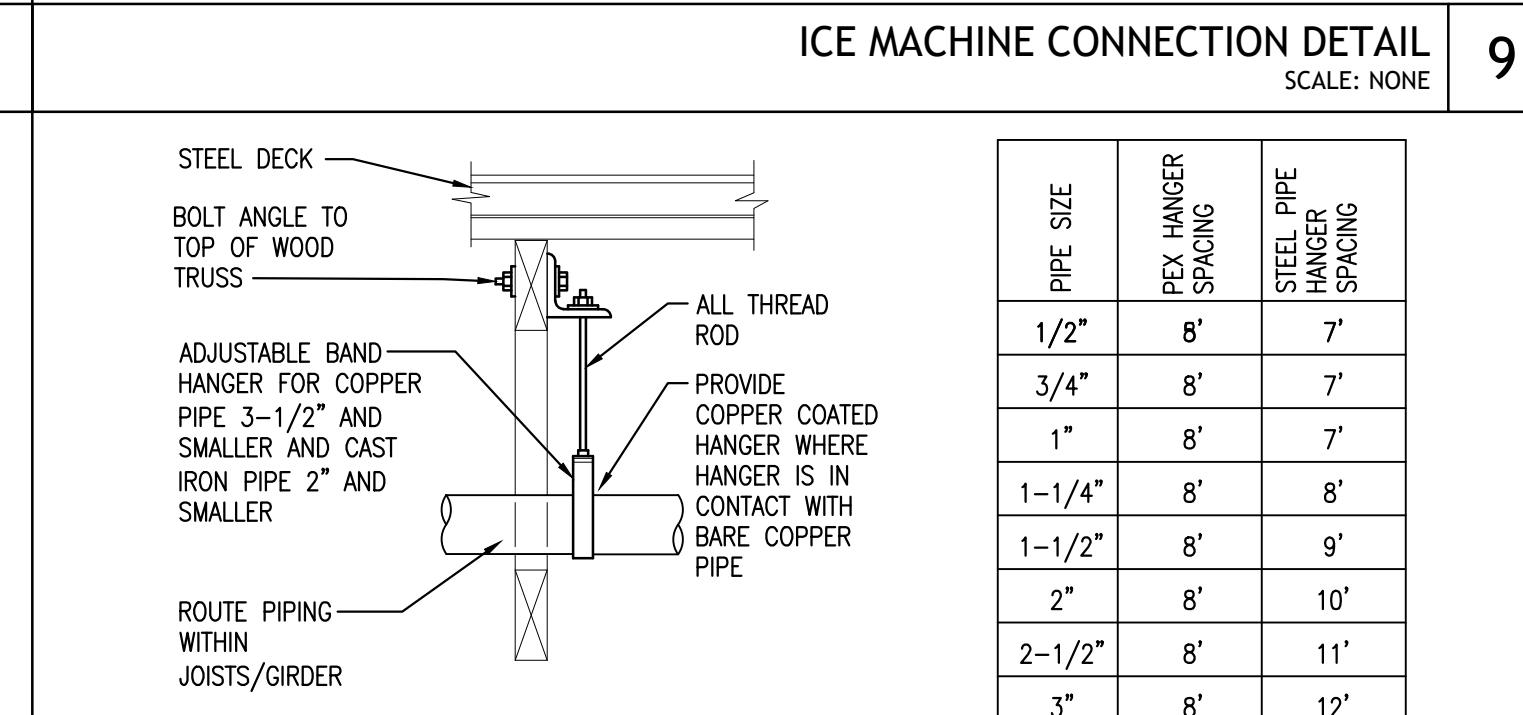
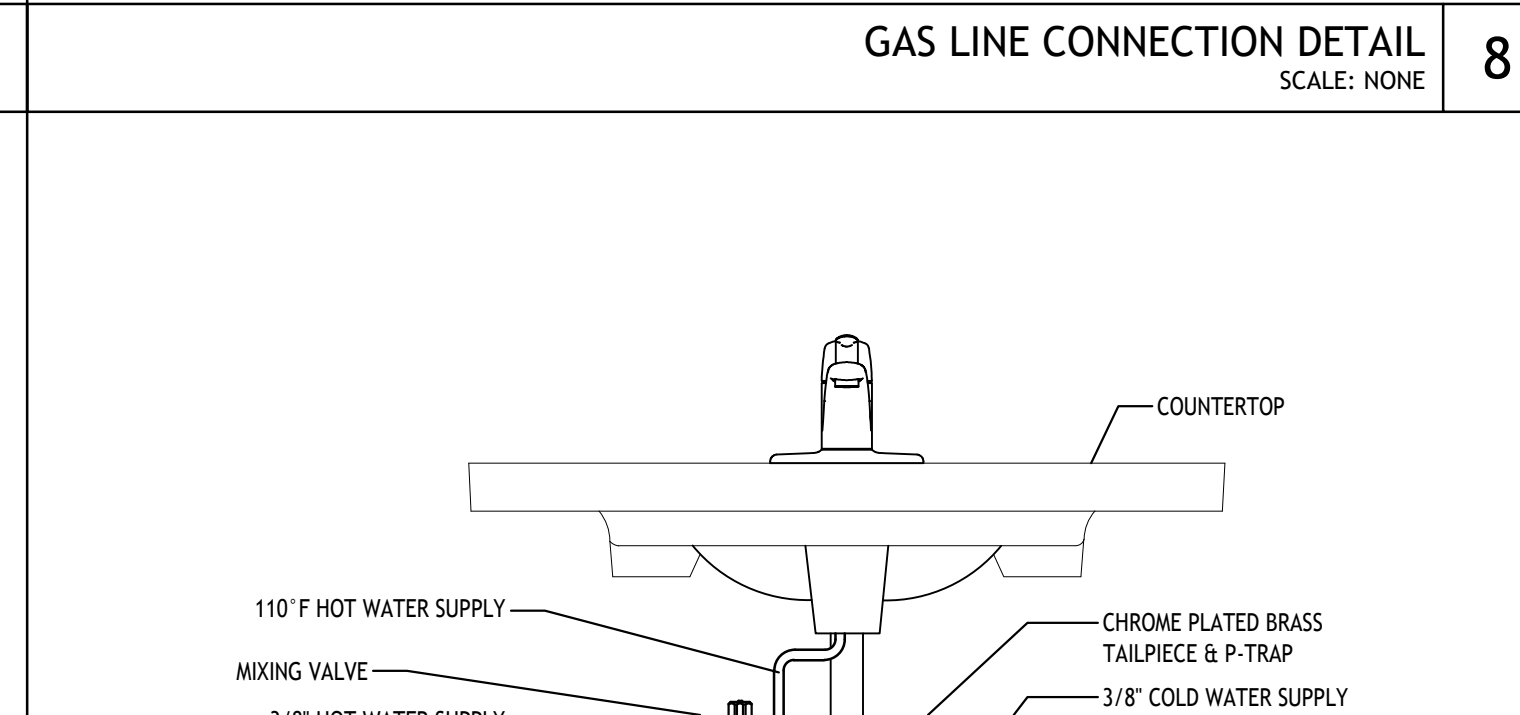
**WATER HAMMER ARRESTOR**  
SCALE: NONE 6



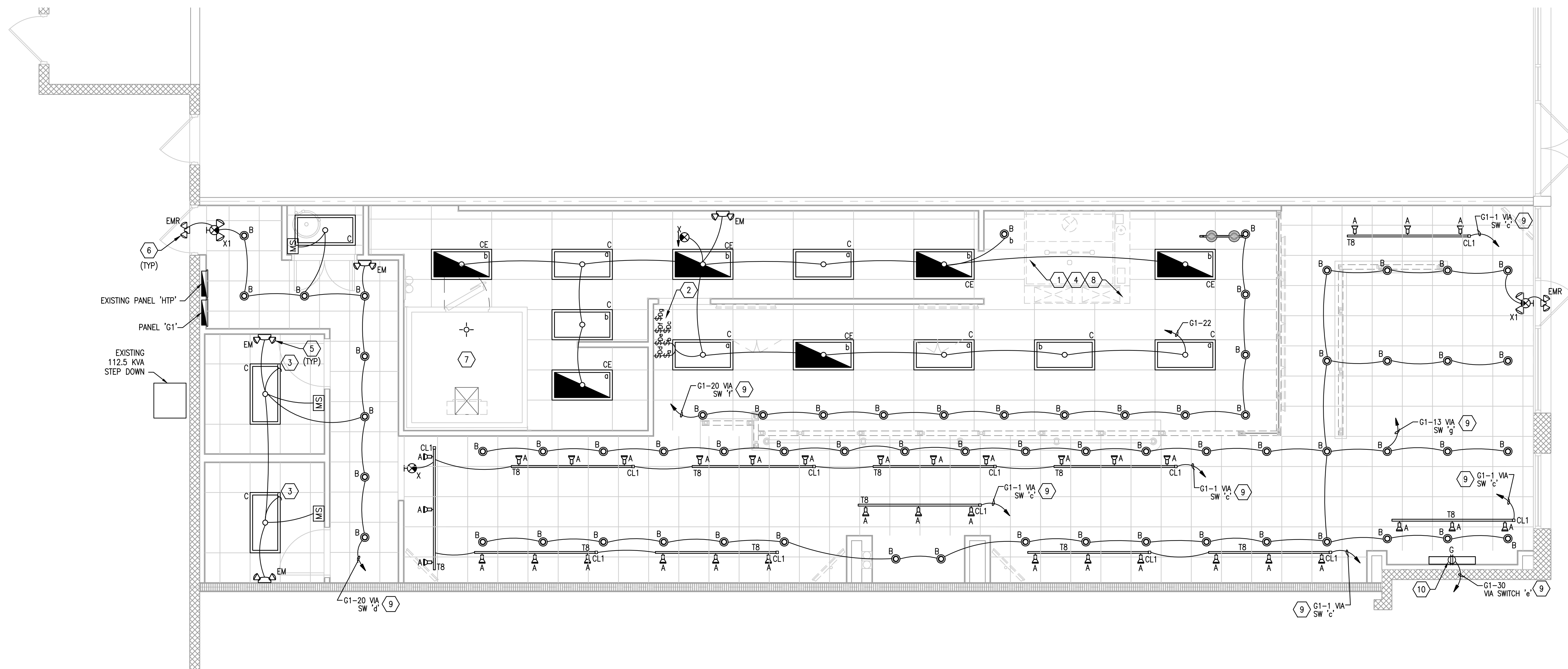
**GAS LINE CONNECTION DETAIL**  
SCALE: NONE 8



**ICE MACHINE CONNECTION DETAIL**  
SCALE: NONE 9



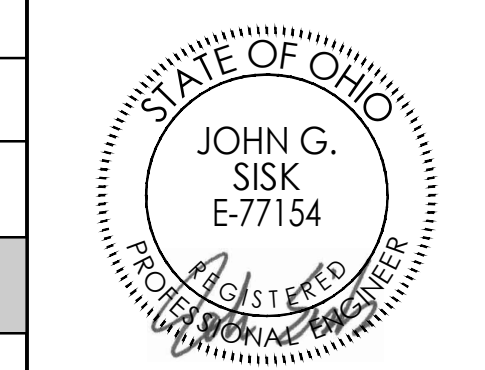
**WATER HAMMER ARRESTOR**  
SCALE: NONE 6



GENERAL NOTES	
A.	ALL WIRING SHALL BE IN CONDUIT, EMT OR RIGID FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. MAXIMUM LENGTH 6 FEET. NO BX, ROMEX, ARMORED CABLE, ETC. ALLOWED.
B.	IT'S THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO BALANCE ALL CIRCUITS BETWEEN THE PHASES OF THE SYSTEM, REGARDLESS OF CIRCUITS INDICATED.
C.	IN PUBLIC AREAS BATTERY PACKS FOR EXIT AND EMERGENCY LIGHTS MUST BE REMOTE OR RECESSED. PAINT EXPOSED SURFACE TO MATCH ADJACENT FINISH.
D.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
E.	SECURE ALL LIGHTS, CEILING, HVAC DUCT WORK, ETC. TO TOP CHORD OF JOISTS, TYPICAL.
F.	ALL CONDUIT ON THIS SHEET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
G.	VERIFY AND FIELD COORDINATE ALL EQUIPMENT ROUGH-IN REQUIREMENTS.
H.	ALL EMPTY CONDUIT TO HAVE NYLON PULLSTRINGS INSTALLED.
I.	ROUTE ALL EXPOSED CONDUIT PARALLEL AND PERPENDICULAR TO TRUSSES BETWEEN BOTTOM OF TOP CHORD AND TOP OF BOTTOM CHORD AS REQUIRED. PAINT AS DIRECTED.
J.	CAT 5e CABLE (GRAY) FOR VOICE/DATA/POS CABLE PROVIDED BY I.T. VENDOR.
K.	ALL EMPTY CONDUITS FOR, DATA/VOICE, ETC. SHALL HAVE BUSHINGS AND PULL STRINGS.
L.	ALL POS PHONE/DATA SHALL BE ROUTED TO MANAGER'S DESK UNLESS NOTES OTHERWISE.

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07/13/22

LIGHTING KEYED NOTES	
1.	INTERLOCK HOOD LIGHT WITH HOOD ON/OFF SWITCH. CIRCUIT TO SHUT OFF THRU SHUNT CIRCUIT BREAKER IN PANEL 'G1'.
2.	FIELD VERIFY LOCATION OF SWITCH BANK. LABEL ALL SWITCHES PER AREA SERVED.
3.	PROVIDE ALL NECESSARY CONTACTORS, RELAYS, ETC. TO CIRCUIT THE EXHAUST FAN TO THE OCCUPANCY SENSOR FOR A COMPLETE OPERATIONAL SYSTEM.
4.	HOOD LIGHTS FURNISHED & INSTALLED WITH HOOD.
5.	CONNECT EXIT LIGHT, EMERGENCY FIXTURE, EXTERIOR EMERGENCY FIXTURE, EMERGENCY BATTERY PACK AND NIGHT LIGHT AHEAD OF ALL SWITCHING.
6.	FIELD VERIFY THAT THE LANDLORD HAS PROVIDED AN EMERGENCY EGRESS LIGHT FIXTURE ON THE EXTERIOR DOOR. IF NONE SHOWN PROVIDE A LITHONIA #AFB-OEL-DBBTXD-UVOLT-N-WT-CW BELOW EXTERIOR DOOR AWNINGS.
7.	COOLER LIGHTING SHALL BE PROVIDED BY COOLER MANUFACTURER.
8.	CONTRACTOR SHALL PROVIDE ALL ELECTRICAL CONNECTIONS, WIRING AND CONDUITS NECESSARY FOR THE INTERLOCKING OF KITCHEN EXHAUST FANS AND MAKEUP AIR UNIT THROUGH THE KITCHEN CONTROL PANEL.
9.	CIRCUIT LIGHTING TO BRANCH CIRCUIT SHOWN VIA NEW DIMMER SWITCHES LOCATED IN FRONT OF HOUSE.
10.	COORDINATE MOUNTING HEIGHT OF RECEPTACLE FOR "D" SIGN LIGHTING WITH OWNER AND LIGHTING PROVIDER. CIRCUIT VIA DIMMER SWITCH LOCATED IN THE KITCHEN.

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
 3975 CASCADES BLVD., SPACE 23A  
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CLIENT: DANIEL LINSWORTH  
 3717 WOODS TRAIL  
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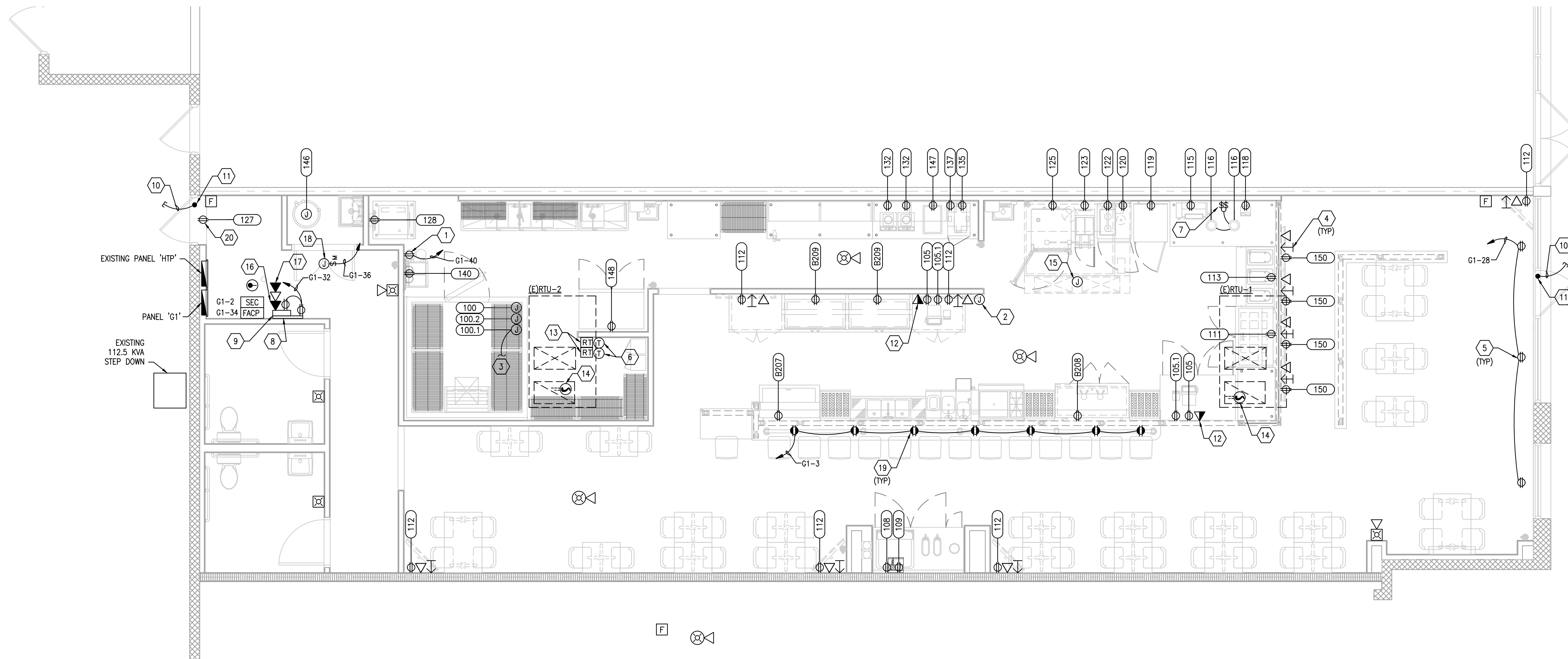
OH-2193	
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07/13/22	PERMIT ISSUE

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SHEET TITLE:  
**LIGHTING FLOOR PLAN**

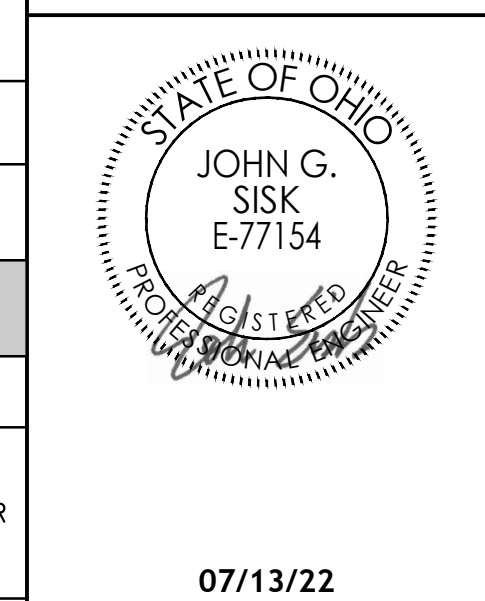
SHEET NUMBER:  
**E1.0**

DS4 PROJECT NUMBER:  
**DBQ22008**



GENERAL NOTES	
A.	ALL WIRING SHALL BE IN CONDUIT, EMT OR RIGID FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. MAXIMUM LENGTH 6 FEET. NO BX, ROMEX, ARMORED CABLE, ETC. ALLOWED.
B.	IT'S THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO BALANCE ALL CIRCUITS BETWEEN THE PHASES OF THE SYSTEM, REGARDLESS OF CIRCUITS INDICATED.
C.	IN PUBLIC AREAS BATTERY PACKS FOR EXIT AND EMERGENCY LIGHTS MUST BE REMOTE OR RECESSED. PAINT EXPOSED SURFACE TO MATCH ADJACENT FINISH.
D.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
E.	SECURE ALL LIGHTS, CEILING, HVAC DUCT WORK, ETC. TO TOP CHORD OF JOISTS, TYPICAL.
F.	ALL CONDUIT ON THIS SHEET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
G.	VERIFY AND FIELD COORDINATE ALL EQUIPMENT ROUGH-IN REQUIREMENTS.
H.	ALL EMPTY CONDUIT TO HAVE NYLON PULLSTRINGS INSTALLED.
I.	ROUTE ALL EXPOSED CONDUIT PARALLEL AND PERPENDICULAR TO TRUSSES BETWEEN BOTTOM OF TOP CHORD AND TOP OF BOTTOM CHORD AS REQUIRED. PAINT AS DIRECTED.
J.	CAT 5e CABLE (GRAY) FOR VOICE/DATA/POS CABLE PROVIDED BY I.T. VENDOR.
K.	ALL EMPTY CONDUITS FOR, DATA/VOICE, ETC. SHALL HAVE BUSHINGS AND PULL STRINGS.
L.	ALL POS PHONE/DATA SHALL BE ROUTED TO MANAGER'S DESK UNLESS NOTES OTHERWISE.

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KEYED NOTES	
1.	RECEPTACLE FOR CO2 ALARM. COORDINATE LOCATION WITH CO2 PROVIDER AND OWNER. COORDINATE ALARM WITH OWNER.
2.	PROVIDE 4" HEXAGON RECESSED JUNCTION BOX MOUNTED AT 48" AFF TO BOTTOM FOR HOOD SUPPRESSION SYSTEM MANUAL PULL STATION. PROVIDE WITH 3/4" CONDUIT TO A MINIMUM OF 12" ABOVE THE CEILING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATION WITH SUPPLIER AND FIRE MARSHAL.
3.	PROVIDE ALL INTERCONNECTION WIRING BETWEEN COOLER/FREEZER EVAPORATOR AND COOLER/FREEZER REMOTE CONDENSING UNIT LOCATED ON ROOF PER MANUFACTURER'S INSTRUCTIONS.
4.	MOUNT TELEVISION OUTLET AT 96" AFF. COORDINATE REQUIREMENTS WITH OWNER AND TELEVISION PROVIDER PRIOR TO ROUGH-IN. ROUTE COAXIAL CABLE BACK TO TELEPHONE BOARD. PROVIDE ADDITIONAL DATA DROP.
5.	MOUNT "SHOW WINDOW" RECEPTACLES ON CEILING OR ON WALL ABOVE WINDOW. COORDINATE LOCATION WITH OWNER.
6.	TWO (2) ROOF TOP UNIT THERMOSTAT LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7.	MOUNT SWITCHES FOR HEAT LAMPS HORIZONTALLY AND ABOVE COUNTER. COORDINATE LOCATION WITH OWNER. ONE SWITCH PER LAMP.
8.	TELEPHONE TERMINAL BOARD LOCATION. CONTRACTOR TO TERMINATE ALL CAT-5 CABLES FOR POS EQUIPMENT.
9.	DMARK PATCH PANEL LOCATION. POS HUB E.C. TO TERMINATE ALL CAT-5 CABLES FOR POS EQUIPMENT.
10.	PROVIDE 1/2" CONDUIT ONLY FOR SECURITY SYSTEM WIRES. STUB INTO ACCESSIBLE CEILING SPACE FOR ROUTING TO SECURITY PANEL.
11.	PROVIDE STUB CONDUIT DOWN TO TOP OF DOOR JAMB AS DIRECTED BY SECURITY SYSTEM CONTRACTOR FOR CONNECTION TO SECURITY SENSOR CONTACTS.
12.	1" CONDUIT WITH PULL STRING FOR POS DATA CABLES. STUB INTO WALL AND EXTEND TO TELEPHONE BOARD. COORDINATE ROUTING PRIOR TO CONSTRUCTION.
13.	PROVIDE RESET/TEST/ALARM SWITCH AT MANAGERS DESK FOR EACH RTU SMOKE DETECTOR. COORDINATE LOCATION OF SWITCH WITH OWNER. COORDINATE EXACT LOCATION WITH OWNER.
14.	FIELD VERIFY CONDITION OF EXISTING DUCT SMOKE DETECTORS. REPLACE IF FOUND TO BE FAULTY OR SHOWS SIGNS OF WEAR. HVAC CONTRACTOR TO WIRE SHUTDOWN RELAY FROM DETECTOR TO RTU.
15.	JUNCTION BOX FOR HOOD CONTROLS. COORDINATE REQUIREMENTS WITH HOOD MANUFACTURER AND INSTALLER PRIOR TO ROUGH-IN.
16.	PROVIDE AND INSTALL CAT-5 CABLE IN DEDICATED 3/4" CONDUIT FROM POS DATA OUTLET LOCATION TO DMARK AT TELEPHONE BOARD.
17.	PROVIDE AND INSTALL CAT-5 CABLE IN DEDICATED 3/4" CONDUIT TO TELEPHONE BACKBOARD.
18.	JUNCTION BOX FOR RECIRC PUMP ABOVE CEILING. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
19.	PROVIDE LEVITON T5632-B USB CHARGER WITH BLACK FINISH. MOUNT USB CHARGER HORIZONTALLY UNDER BAR TOP ON PATRON SIDE. REFER TO ARCHITECTURAL ELEVATIONS.
20.	PROVIDE POWER CONNECTION TO AIR CURTAIN AND INTERCONNECT WITH DOOR MOUNTED MICRO SWITCH.

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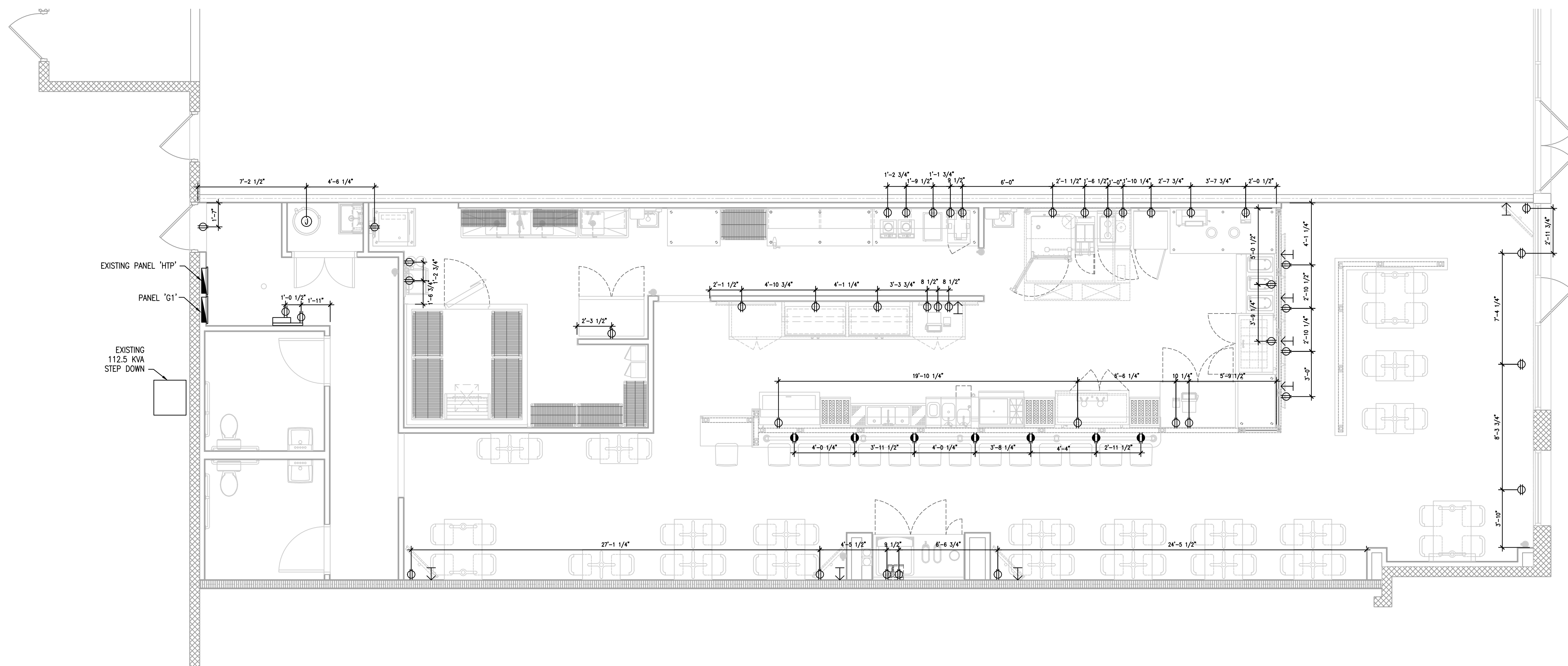
<b>DICKEY'S BARBECUE PIT</b>	
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FIRE ALARM GENERAL NOTE	
1.	AN APPROVED MANUAL FIRE ALARM SYSTEM MONITORED BY A LISTED CENTRAL STATION, REMOTE STATION OR PROPRIETARY STATION SHALL BE PROVIDED, DESIGNED PER NFPA STD. 72. PRIOR TO INSTALLATION A LICENSED CONTRACTOR SHALL SUBMIT TO THE FIRE DEPARTMENT, ONE (1) SET OF MANUFACTURER'S CUT SHEETS AND STATE FIRE MARSHAL LISTING SHEETS FOR EACH DEVICE, THREE (3) SETS OF SHOP DRAWINGS, A COMPLETED PERMIT APPLICATION, AND APPLICABLE FEES FOR REVIEW. ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT ONLY AND OUTLET BOXES. WIRING AND DEVICES SHALL BE BY OWNERS FIRE ALARM SYSTEM CONTRACTOR. FIRE ALARM SYSTEM CONTRACTOR SHALL SUBMIT FINAL FIRE ALARM SYSTEM SHOP DRAWINGS TO LOCAL FIRE DEPARTMENT PLAN CHECK FOR APPROVAL PRIOR TO INSTALLATION.
PROVIDE DOCUMENTATION TO FIRE INSPECTOR VERIFYING SERVICE CONTRACTS OF FIRE ALARM SYSTEM.	

SHEET TITLE:  
**POWER FLOOR PLAN**

SHEET NUMBER:  
**E2.0**

DS4 PROJECT NUMBER:  
**DBQ22008**

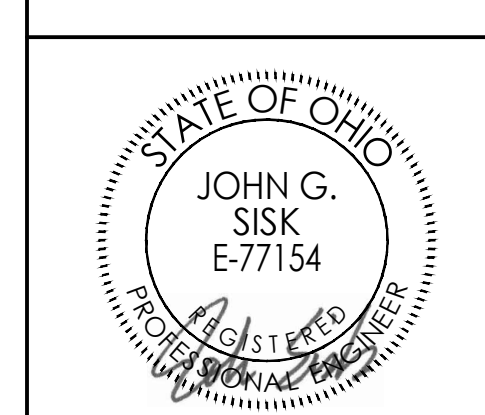


**GENERAL ROUGH-IN NOTES**

1. ALL ELECTRICAL OUTLETS SHOWN ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SPECIFIED AS FURNISHED OWNER UNLESS OTHERWISE NOTED. FOR ADDITIONAL OUTLETS, SEE THE POWER PLAN.
2. ALL DIMENSIONS GIVEN ARE FROM COLUMN CENTERLINE AND/OR FINISHED WALLS.
3. ELECTRICIAN TO BRANCH TO CONNECTION WHERE REQUIRED TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES INCLUDING INTER-WIRING TO APPLIANCES AS REQUIRED BY THE SPECIFICATIONS AND/OR DRAWINGS.
4. CONTRACTOR TO PROVIDE AND INSTALL GALVANIZED JUNCTION BOXES IN FIXTURE CUTOUPS AS REQUIRED BY THE ITEM SPECIFICATION AND INCLUDE APPROPRIATE ELECTRICAL RECEPTACLE, WITH S/S FACEPLATE.
5. ELECTRICIAN TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES AS REQUIRED BY THE SPECIFICATIONS. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL AND ARE TO BE FURNISHED BY THE ELECTRICIAN, AS WELL AS THE RECEPTACLE, UNLESS OTHERWISE SPECIFIED IN THE ITEM SPECIFICATIONS. ALL DISCONNECT SWITCHES ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICIAN AT TIME OF INSTALLATION.
6. ALL OUTLETS WITHIN KITCHEN AREA AND PREP AREA SHALL BE GF PER NEC.
7. ELECTRICAL CONTRACTOR TO PROVIDE CONTROL WIRING AND ELECTRICAL SERVICE FOR REMOTE REFRIGERATION SYSTEMS FOR WALK-IN BOXES, AND INSTALL ALL LIGHTS IN WALK-IN COOLER AS REQUIRED THRU DOOR SWITCH.

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**POWER ROUGH-IN FLOOR PLAN**

SHEET NUMBER:  
**E3.0**

DS4 PROJECT NUMBER:  
**DBQ22008**

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	2 X 4 LED FIXTURE
	2 X 4 LED FIXTURE WITH BATTERY BACKUP
	1 X 4 LED FIXTURE
	1 X 4 LED FIXTURE WITH BATTERY BACKUP
	4' LED STRIP FIXTURE
	4' LED STRIP FIXTURE WITH BATTERY BACKUP
	SURFACE MOUNTED TRACK AND TRACK HEAD
	PENDANT MOUNTED LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	RECESSED WALLWASH LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	HOOD LIGHT
	CEILING MOUNTED EXIT SIGN, SHADE INDICATES FACE
	WALL/CEILING MOUNTED EMERGENCY BUGEYE FIXTURE
	COMBINATION EXIT SIGN/EMERGENCY BUGEYE
	EMERGENCY REMOTE HEAD LIGHT FIXTURE
	JUNCTION BOX
	WALL MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED DUPLEX RECEPTACLE
	WALL MOUNTED SINGLE RECEPTACLE
	FLOOR MOUNTED SINGLE RECEPTACLE
	SPECIAL RECEPTACLE
	WALL MOUNTED QUADRUPLX RECEPTACLE
	SINGLE POLE SWITCH
	THREE POLE LIGHT SWITCH
	PILOT LIGHT SWITCH
	SINGLE THROW THERMAL SWITCH
	MOTOR RATED SWITCH
	MOTION SENSOR
	BUZZER
	BELL
	PUSHBUTTON (MOMENTARY)
	MOTOR
	TELEPHONE BACKBOARD
	TELEPHONE OUTLET
	FLOOR MOUNTED TELEPHONE OUTLET
	POS CONNECTION
	FLOOR MOUNTED POS CONNECTION
	COMBINATION DATA AND PHONE JACK
	FLOOR MOUNTED COMBINATION DATA AND PHONE JACK
	DISCONNECT SWITCH
	PAGER OUTLET
	SECURITY JUNCTION BOX
	TELEVISION JACK (PROVIDE 3/4" CONDUIT WITH PULL WIRE)
	KEYED SWITCH
	PANELBOARD
	TRANSFORMER
	LOW VOLTAGE DOORBELL TRANSFORMER
	SWITCHED CIRCUITRY BURIED OR IN SLAB
	CIRCUITRY IN WALL OR CEILING
	HOMERUN BACK TO PANEL
	POINT OF CONNECTION
	ISOLATED GROUND
	WEATHERPROOF
	GROUND FAULT CIRCUIT INTERRUPTER
	MOTOR CONTROL TERMINAL
	PRIOR TO ROUGH-IN
	INTEGRATED FACILITY STRUCTURE (SWITCHGEAR)
	INTEGRATED POWER CENTER (SWITCHGEAR)
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM PULL STATION
	FIRE ALARM HORN/STROBE DEVICE
	FIRE ALARM STROBE DEVICE
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM DUCT SMOKE DETECTOR
	REMOTE TEST SWITCH
	TAMPER SWITCH
	FLOW SWITCH
	CEILING MOUNTED SPEAKER

NOTE: NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.

EMERGENCY LIGHTING FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	LAMPS	REMARKS
A		LED TRACK HEAD CONTECH LIGHTING #CTL8070F3D-B-BLACK	9W LED	
T8		TRACK STEEL IN BLACK CONTECH LIGHTING 6' TRACK WITH REGULATOR END FEED #LT8B W/LA23-R-B AND REG1-B	---	
B		LED CEILING MOUNTED LIGHT, 120V 6" BLACK TRIM CONTECH LIGHTING #RL38SA335K12D W/CTR3002-CLR TRIM	12W LED	
C		2X4 RECESSED LAY-IN LED TROFFER LITHONIA #2TL4 60L-EZ1	47W LED	RECESSED GRID TROFFER W/ TH #12" CLEAR PRISMATIC ACRYLIC LENS
CE		2X4 RECESSED LAY-IN LED TROFFER LITHONIA #2TL4 60L-EZ1-EL14L	47W LED	RECESSED GRID TROFFER W/ TH #12" CLEAR PRISMATIC ACRYLIC LENS 90 MINUTE BATTERY BACK-UP
EM		EMERGENCY WALL MOUNTED BUG-EYE WITH 90 MIN. BATTERY PACK. CHLORIDE #VU6R	PROVIDED WITH FIXTURE	120V, BLACK COLOR
EMR		REMOTE HEAD, EXTERIOR WALL MOUNTED EMERGENCY LIGHT WITH 90 MIN. BATTERY PACK. CHLORIDE #VRHP	PROVIDED WITH FIXTURE	120V, BLACK COLOR, WEATHERPROOF
X		EMERGENCY EXIT SIGN WITH EMERGENCY LIGHTS. WALL MOUNT, SINGLE FACE, 90 MIN. BATTERY PACK. CHLORIDE #ER46L-1-B-G	PROVIDED WITH FIXTURE	120V, BLACK FACE, GREEN LETTERS
X1		COMBINATION EMERGENCY EXIT SIGN WITH EMERGENCY LIGHTS. UNIVERSAL MOUNT 90 MIN. BATTERY PACK. CHLORIDE #VLTGR3R	PROVIDED WITH FIXTURE	120V, GREEN LETTERS, BLACK COLOR
CL1		120V CURRENT LIMITER WITH END FEED, BLACK CONTECH #LA-23-R-B-REG1-B	120W LED	

- ALL LIGHT FIXTURES ARE TO BE PROVIDED BY CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL FIXTURE REQUIREMENTS FOR WITH MARLIN CONTROLS FOR DIMMING, 0-10V, INCANDESCENT AND ELECTRONIC LOW VOLTAGE DIMMING REQUIREMENTS, PRIOR TO ORDERING LIGHTING PACKAGE.
- CONTRACTOR SHALL INSTALL ALL LAMPS.
- CONTRACTOR SHALL INSTALL ALL NECESSARY MOUNTING HARDWARE, TRIM RINGS, ETC. FOR THE TYPE OF CEILING SPECIFIED. COORDINATE WITH THE ARCHITECTURAL ROOM FINISH SCHEDULE.
- CONTRACTOR SHALL INSTALL ALL NECESSARY MOUNTING HARDWARE, FITTINGS, CONNECTORS, PENDENT FEEDS, END CAPS, ETC. TO PROVIDE A COMPLETE LIGHT TRACK SYSTEM.
- CONTRACTOR SHALL INSTALL ALL NECESSARY LOW VOLTAGE DIMMABLE TRANSFORMERS, CONNECTORS, MOUNTING CLAMPS, ETC.
- VERIFY THICKNESS OF CEILING SYSTEMS AND PROVIDE EXTENSION AS REQUIRED FOR ALL DOWN LIGHTS.
- WALK-IN REFRIGERATOR LIGHTS SHALL BE FURNISHED BY LIGHTING VENDOR AND INSTALLED BY G.C. & FULLY CONNECTED BY THE ELECTRICAL CONTRACTOR.
- TRIM COLOR BY ARCHITECT.
- MANUFACTURER SHALL LABEL FIXTURE BASE WITH MAXIMUM WATTAGE SHOWN ON THIS LIGHT FIXTURE SCHEDULE.
- ALL LIGHT FIXTURES ARE TO BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
- JUNCTION BOX HEIGHT FOR OPEN CEILING FIXTURES TO BE 12' ABOVE FINISHED FLOOR.
- CONTRACTOR TO PROVIDE ARCHITECT WITH LIGHTING CUT SHEETS FOR APPROVAL PRIOR TO ORDERING ANY LIGHTS.
- ALL FRONT OF HOUSE LIGHTING TO BE DIMMABLE.
- CONTRACTOR TO COORDINATE WITH DIMMING PANEL VENDOR TO PROVIDE COMMISSIONING AND 'AIM AND FOCUS' SERVICES.
- GC TO VERIFY COMPATIBILITY AND COORDINATE WITH DIMMING SYSTEM MANUFACTURER FOR ALL RETROFITTED INCANDESCENT LIGHTS WITH LED EQUIVALENT BULBS.

KITCHEN EQUIPMENT SCHEDULE															
ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT REMARKS	PROVIDED BY	Electrical Requirements						ELECTRICAL REMARKS	CIRCUIT	
							LOAD			ROUGH-IN					
							Volts/Phs	Amp	Watt	HP	AFF	FSU			
<b>DICKEY'S BBQ PIT</b>															
100	1 ea	WALK-IN COOLER ASSEMBLY	BRUCHA			KEC	120V/1Ø	XX.XXA				DFC		LIGHT	G1-15
100.1	1 ea	EVAPORATOR COIL	BRUCHA			KEC	XXV/XXØ	XX.XXA				DFC			G1-17/19
100.2	1 ea	COMPRESSOR	BRUCHA			KEC	2Ø8-23Ø/1Ø	8.0A				XXX			G1-21/23
105	2 ea	CASH REGISTER	VENDOR	VENDOR		VENDOR	120V/1Ø	10.0A			+18"		W/ DATA		G1-9; G1-11
105.1	2 ea	PRINTER	VENDOR	VENDOR		VENDOR	120V/1Ø	10.0A			+18"		W/ DATA		G1-6; G1-8
108	1 ea	SODA DISPENSER W/ ICE DISPENSER	VENDOR	VENDOR		VENDOR	120V/1Ø	10.0A			+54"		MEP VFY W/ VENDOR		G1-25
109	1 ea	SODA CARBONATOR	VENDOR	VENDOR		VENDOR	120V/1Ø	6.9A			+18"		MEP VFY W/ VENDOR		G1-27
111	1 ea	REFRIGERATED SANDWICH PREP TABLE	TURBO AIR	MST-48-18-N		KEC	120V/1Ø	4.4A			+18"				G1-29
112	7 ea	4Ø" WALL MOUNTED TV	TBD	TBD	MOUNT PROVIDED BY VENDOR	OWNER									G1-31; G1-33
113	1 ea	3 COMPARTMENT STEAM TABLE	KLINGER'S TRADING INC	SW-3H-12Ø		KEC	120V/1Ø	20.0A	198ØW		+18"				G1-35
115	1 ea	TOASTER CONVEYOR	APW WYOTT	M-95-2		KEC	120V/1Ø	15.0A	18ØØW		+44"				G1-37
116	2 ea	DECORATIVE HEAT LAMP (COPPER)	HATCO	DL-775		KEC	120V/1Ø	XX.XXA	1ØØW		DFC				G1-39; G1-41
118	1 ea	SCALE, TABLE TOP	GLOBE	GLS3Ø		KEC	120V/1Ø	Ø.1A			+44"				G1-12
119	1 ea	HOT HOLDING CABINET	F W E	PHTT-12		KEC	120V/1Ø	18.3A	2192W		+18"				G1-16
120	1 ea	UNDERCOUNTER FREEZER	ATOSA	MGFB4Ø5GR		KEC	120V/1Ø	1.8A			+18"				G1-24
122	1 ea	FRY WARMER	HATCO	GRFF		KEC	120V/1Ø	5.ØA	5ØØW		+18"				G1-26
123	1 ea	FRYER, GAS	COOK RITE	ATFS-4Ø		KEC									G1-38
125	1 ea	COMBI OVEN, GAS	UNOX	XAVC-1ØFS-GPLM		KEC	120V/1Ø	12.ØA	1.4 KW						G1-42
127	1 ea	AIR CURTAIN	MARS	N236-1U		KEC	120V/1Ø	5.1A				DFC			G1-65
128	1 ea	ICE MAKER	ICE-O-MATIC	GEMØ45Ø	W/ KIT KBT23	KEC	120V/1Ø	15.2A				+66"			G1-44
132	2 ea	INDUCTION COOKTOP	GLOBE	GIR18		KEC	120V/1Ø	15.ØA	18ØØW		+44"				G1-46; G1-48
135	1 ea	ICE TEA BREWER	BUNN	414ØØ.ØØØØ		KEC	120V/1Ø	14.ØA	17ØØW		+44"				G1-5Ø
137	1 ea	INSULATED HOLDING CABINET	CAMBRO	UPCH4ØØ11Ø		KEC	120V/1Ø	2.ØA	23ØV		+18"				G1-53
14Ø	1 ea	SODA SYSTEM/ BAG-IN-BOX	VENDOR	VENDOR		VENDOR	120V/1Ø	15.ØA			+18"		MEP VFY W/ VENDOR		G1-51
146	1 ea	WATER HEATER	BY GC												G1-55
147	1 ea	COUNTERTOP HOT WELL	WINCO	FW-S6ØØ		KEC	120V/1Ø	12.5A	15ØØØW		+44"				G1-57
148	1 ea	REACH-IN FREEZER	ATOSA	MBF8ØØ2GR		KEC	120V/1Ø	8.6A			+18"				G1-59; G1-61
149	2 ea	LOCKER	OMCAN USA	13132		KEC									
15Ø	4 ea	4Ø" WALL MOUNTED TV (MENU BOARD)	TBD	TBD	MOUNT PROVIDED BY VENDOR	OWNER									G1-5; G1-7
<b>BAR</b>															
B2Ø7		MUG FROSTER	BEVERAGE AIR	GF48L-B		KEC	120V/1Ø	7.5A			+18"				G1-52
B2Ø8	1 ea	KEGGERATOR, 4 TAP	TURBO AIR	TBD-2SBD-N6		KEC	120V/1Ø	1.9A			+18"				G1-54
B2Ø9	2 ea	BACKBAR REFRIGERATOR	KROWNE	BR48		KEC	120V/1Ø	1.ØA			+18"				G1-56; G1-58
3Ø1	1 ea	CHEF BASE REFRIGERATOR	TURBO AIR	PRCBE-48-N		KEC	115V/1Ø	3.2A			+18"		MEP VFY W/ VENDOR		G1-6Ø

VOLTAGE DROP SCHEDULE	
MAIN FEEDER (2% MAX DROP REQUIRED)	
WIRE MATERIAL	COPPER
WIRE SIZE	5ØØ KCMIL
CONDUIT MATERIAL	STEEL
POWER FACTOR (PF)	Ø.85
VOLTAGE	48Ø
PHASE	3
NUMBER OF SETS	1
ESTIMATED LENGTH (FT)	9ØØ
LOAD CURRENT (A)	114
VOLTAGE DROP (V)	8.9
VOLTAGE DROP %	1.9
VOLTAGE AT THE END	471.1

PRIOR TO BID: CONTRACTOR TO FIELD VERIFY EXACT FEEDER LENGTH OF FEEDER AND IF LENGTH IS OVER THE ESTIMATED LENGTH NOTED ABOVE, CONTRACTOR IS RESPONSIBLE TO PERFORM AN UPDATED VOLTAGE DROP CALCULATION AND UPGRADE FEEDER SIZE AS REQUIRED.

VOLTAGE DROP RECOMMENDED CIRCUIT LENGTHS										
12Ø VOLT, SINGLE PHASE, MAX 3% DROP										
WIRE SIZE	BREAKER OR FUSE IN AMPS									
	15	2Ø	3Ø	4Ø	5Ø	6Ø	7Ø	8Ø	9Ø	1ØØ
14	5Ø									
12	65	5Ø								
1Ø	1Ø5	6Ø	55							
8	16Ø	12Ø	8Ø	6Ø						
6	2ØØ	195	13Ø	1ØØ	8Ø					
4	41Ø	3Ø5	2Ø5	155	12Ø	1ØØ	85			
2	665	5ØØ	33Ø	25Ø	2ØØ	165	14Ø	12Ø	11Ø	1ØØ

FAULT CURRENT CALCULATION - 2Ø8V											
SERVICE VOLTAGE	12Ø/ 2Ø8										
SERVICE FAULT CURRENT	[ 65ØØØ ] AMPHERES			OR	UTILITY TRANSFORMER	[ ] KVA		MAIN SWITCH LET-THRU	FUSE SIZE= [ 2ØØ ] FUSE TYPE= [ LPN-RK_SP ]		
I =	KVA x 1ØØØ E-L L X 1.732		=	KVA = [ Ø ] E = 36Ø.26		=	TRANS. FLA = [ Ø ]		FAULT AT PRIMARY SIDE OF FUSE= [ 65ØØØ ]		
IscA =	TRANS. FLA x 1ØØ TRANSFORMER Z		=	TRANS. FLA = [ Ø ]		=	IscA = 65,ØØØ AMPERES		LET THRU OF FUSE= [ 13ØØØ ]		
IscA =	AMPERE SHORT-CIRCUIT CURRENT RMS SYMMETRICAL.			DESIGN POINT: [ A ]			DESIGN POINT: [ B ]				
FAULT AT:	PANEL HTP	PANEL G1									
LENGTH (DISTANCE)	L=	4Ø	1Ø								
AVAILABLE SHORT CIRCUIT	IscA=	13ØØØ	12959								
NO. CONDUCTORS PER PHASE	N=	1	1								
PHASE CONDUCTOR	C=	5ØØ	3/Ø								
PHASE CONDUCTOR CONSTANT	C=	267Ø6	12844								
VOLT - LINE TO LINE	EL-L=	2Ø8	2Ø8								
F FACTOR=1.732xLxI / NxCxE L-L	F=	Ø.162	Ø.Ø84								
MULTIPLIER = 1 / 1+F	M=	Ø.86Ø	Ø.922								
IscA x M = FAULT CURRENT AT TERMINALS OF THE PANEL LINE=		11186	11955								
DESIGN POINT:				C	D						
THREE PHASE TRANSFORMER 48ØV DELTA PRIMARY, 2Ø8V/12ØV SECONDARY	F FACT: IscA PRIMARY X V PRIMARY X 1.732 (%Z)		IscA = 11,186								
1ØØØØØ X KVA TRANSFORMER	PRIMARY VOLTS LINE TO LINE VOLTAGE		V PRI = 48Ø								
	SECONDARY VOLTS LINE TO LINE VOLTAGE		V SEC = 2Ø8								
	TRANSFORMER KVA		KVA = 113								
	IMPEDANCE		%Z = 1.2								
	MULTIPLIER M = 1 / 1 + F		F = 0.992								
			M = 0.5Ø2								
IscA = IscA PRIMARY X V PRIMARY X M	SECONDARY VOLTAGE		IscA = 12,959 A								
NOTES:											
1. CONTRACTOR SHALL VERIFY ALL GROUND FAULT INFORMATION PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER PRIOR TO ORDERING ANY EQUIPMENT.											

ENGINEER:  
**JOHN G. SISK, PE**

62Ø1 CAMPUS CIRCLE DRIVE E.  
IRVING, TX 75Ø63  
PHONE 972.67Ø.1288  
E-MAIL jsisk@dstudio4.com

CORPORATE:  
**DICKEY'S BARBECUE RESTAURANT, INC.**  
4514 COLE AVENUE, SUITE 11ØØ  
DALLAS, TEXAS 752Ø5  
972.248.9899



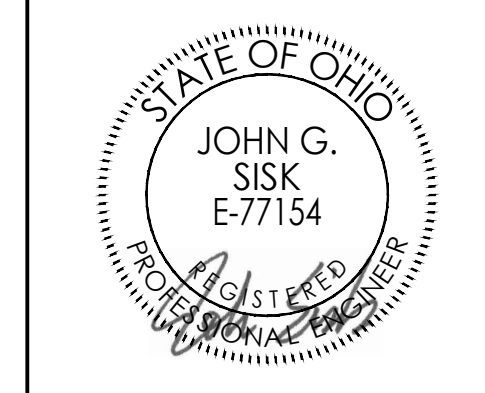
Ø7/13/22

**DICKEY'S BBQ PIT**  
**C**









07/13/22

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
 3975 CASCADES BLVD., SPACE 23A  
 KENT, OH 44240  
 CLIENT: DANIEL LINSWORTH  
 3717 WOODS TRAIL  
 KENT, OH 44240



**OH-2193**

DATE	DESCRIPTION
07/08/22	CORPORATE REVIEW
07/13/22	PERMIT ISSUE

DATE	DESCRIPTION

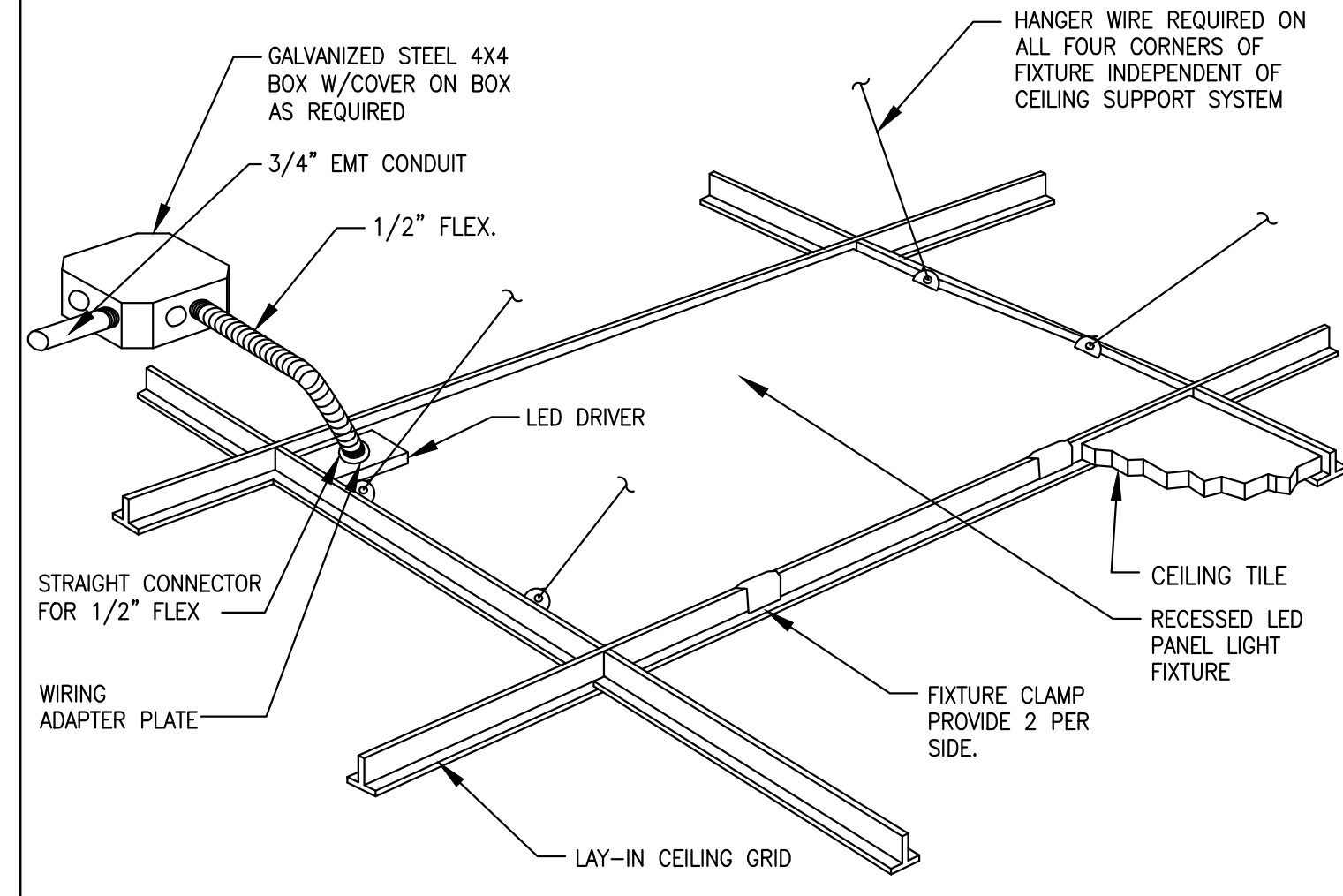
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**ELECTRICAL DETAILS**

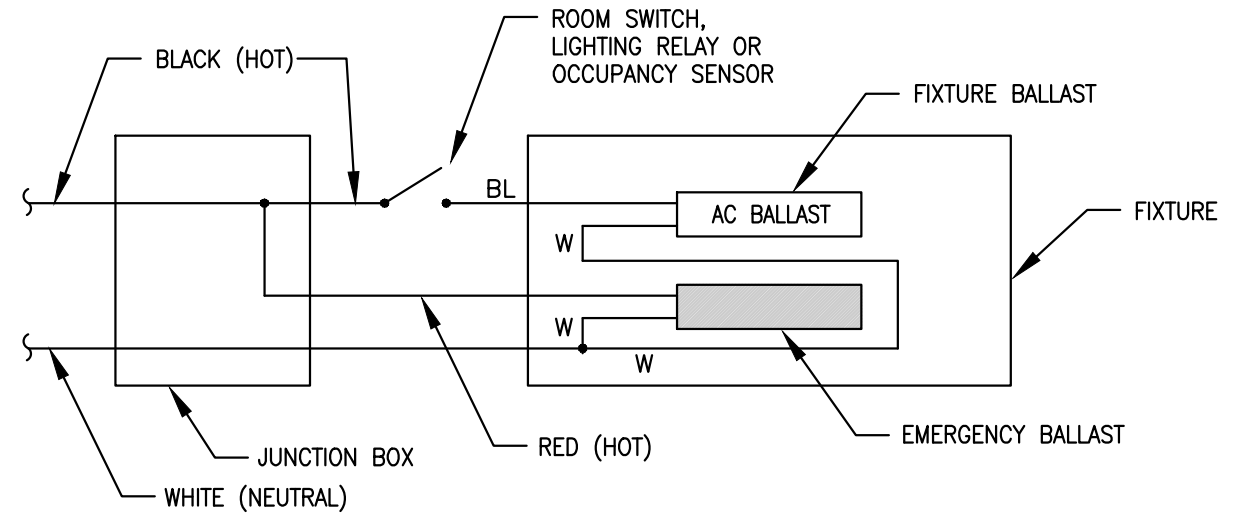
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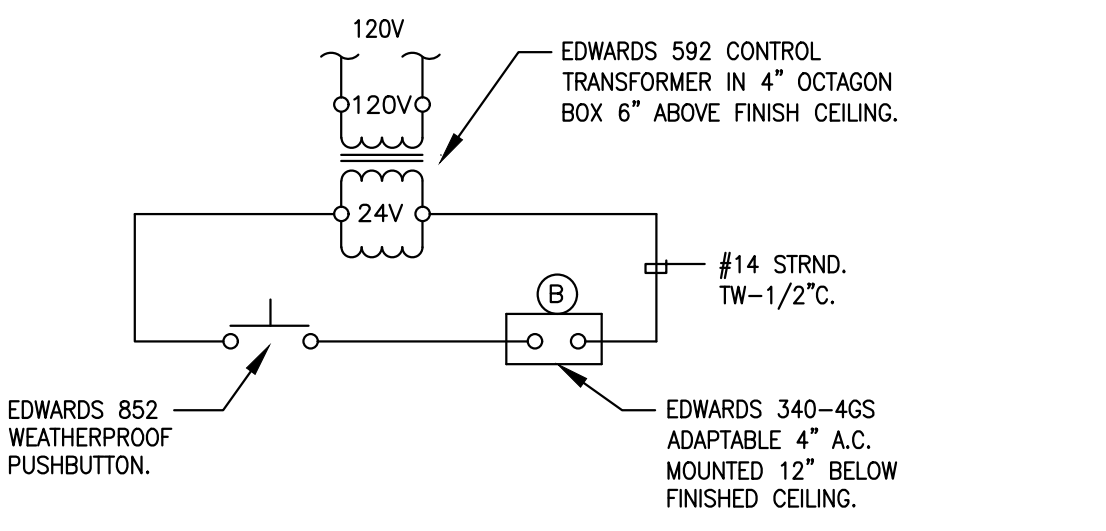
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**DBQ22008**



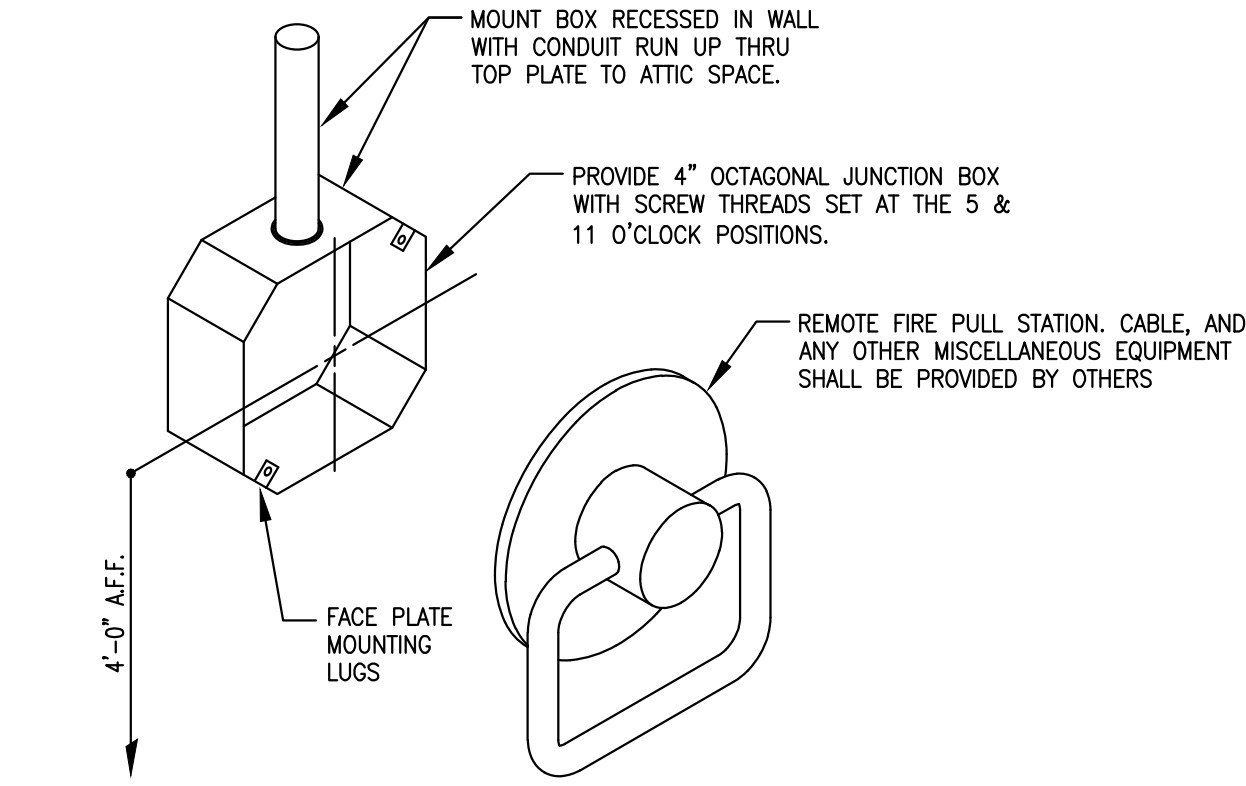
**TYPICAL LAY-IN LED PANEL FIXTURE MOUNTING DETAIL**  
 SCALE: NONE **4**



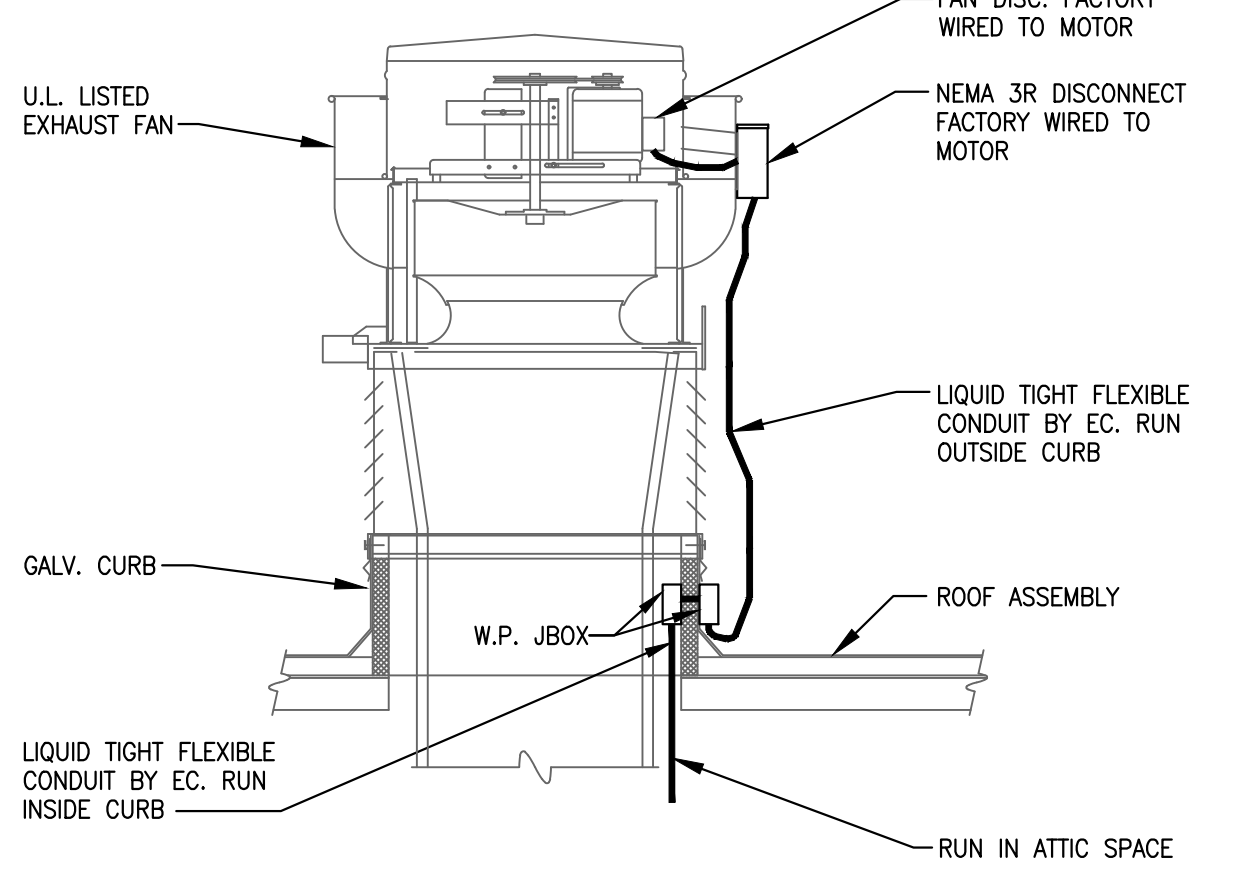
**EMERGENCY LIGHTING WIRING DIAGRAM**  
 SCALE: NONE **3**



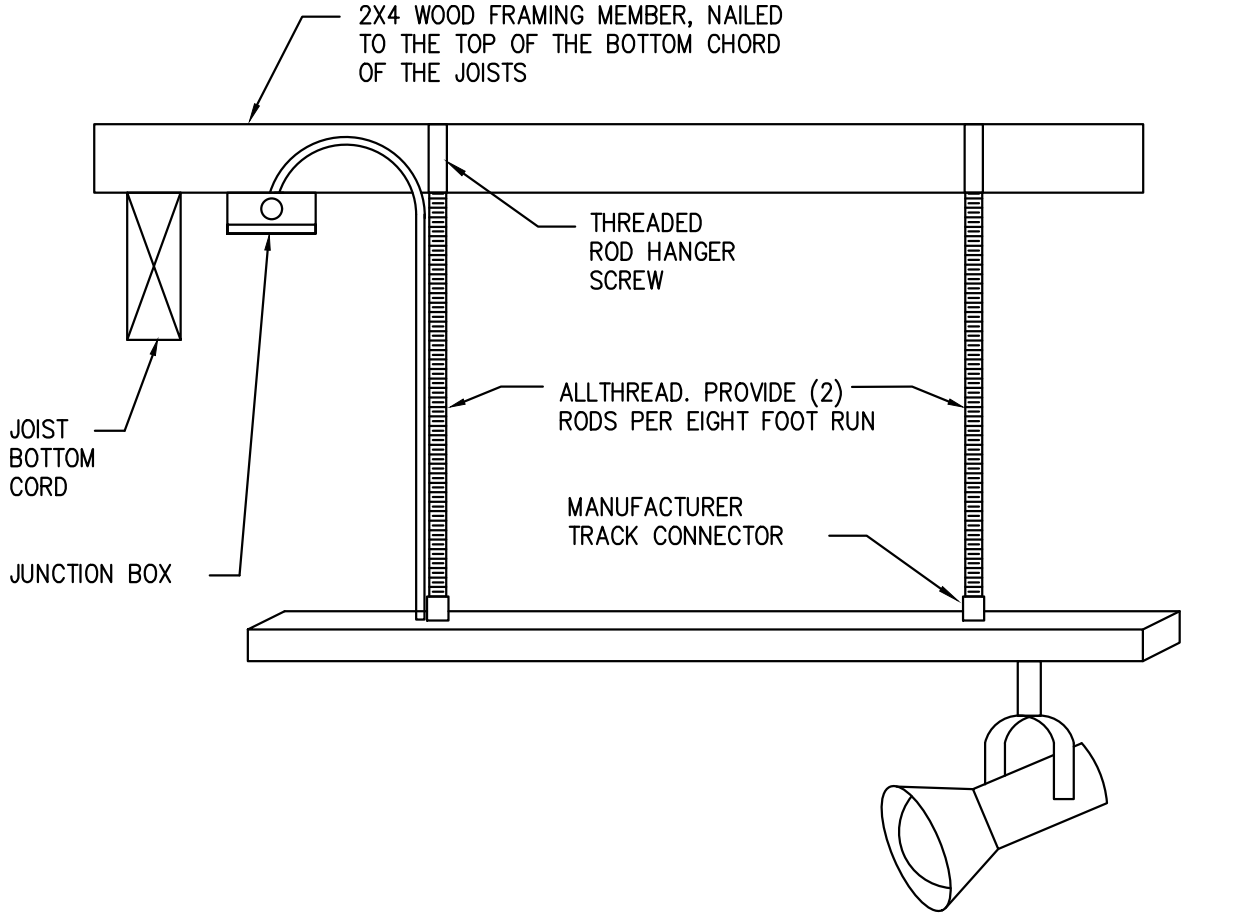
**DOOR BELL WIRING DIAGRAM**  
 SCALE: NONE **2**



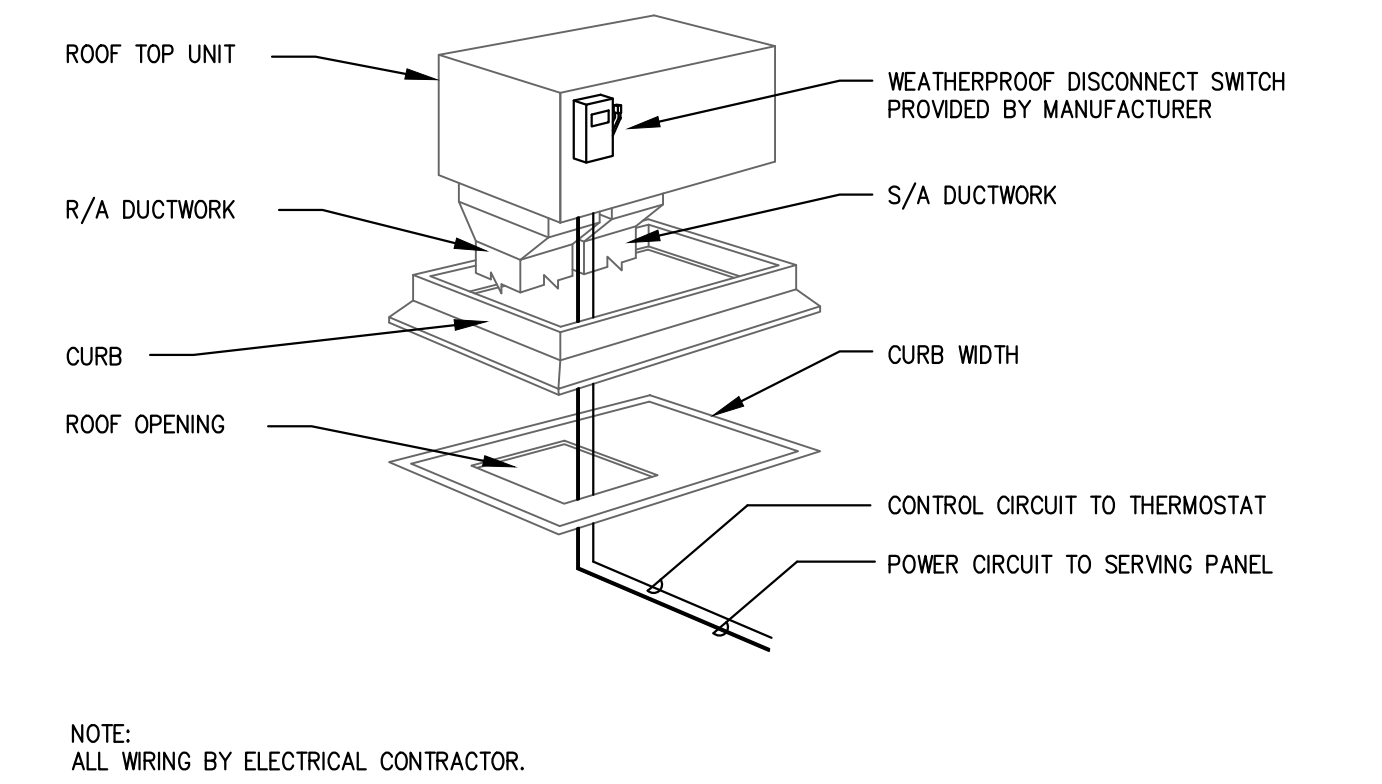
**ANSUL PULL STATION DETAIL**  
 SCALE: NONE **1**



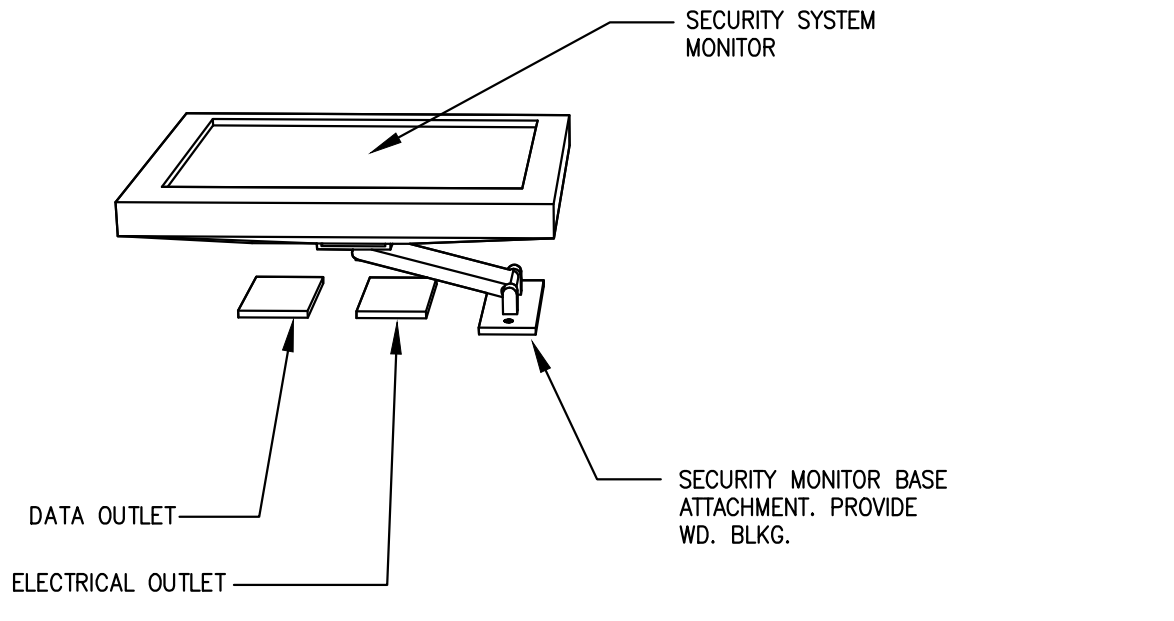
**EXHAUST FAN ELECTRICAL CONNECTION DETAIL**  
 SCALE: NONE **5**



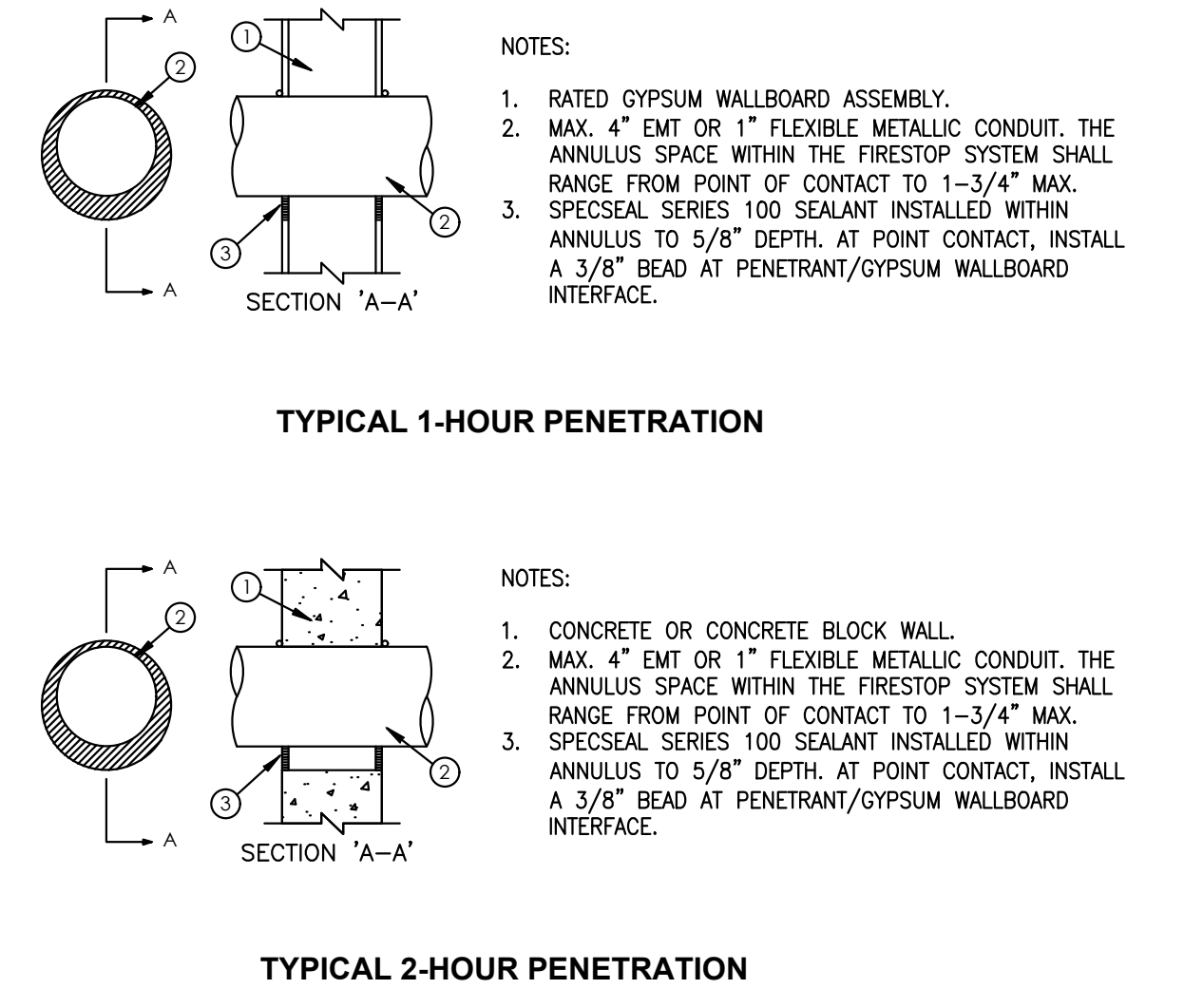
**TRACK LIGHTING MOUNTING DETAIL**  
 SCALE: NONE **6**



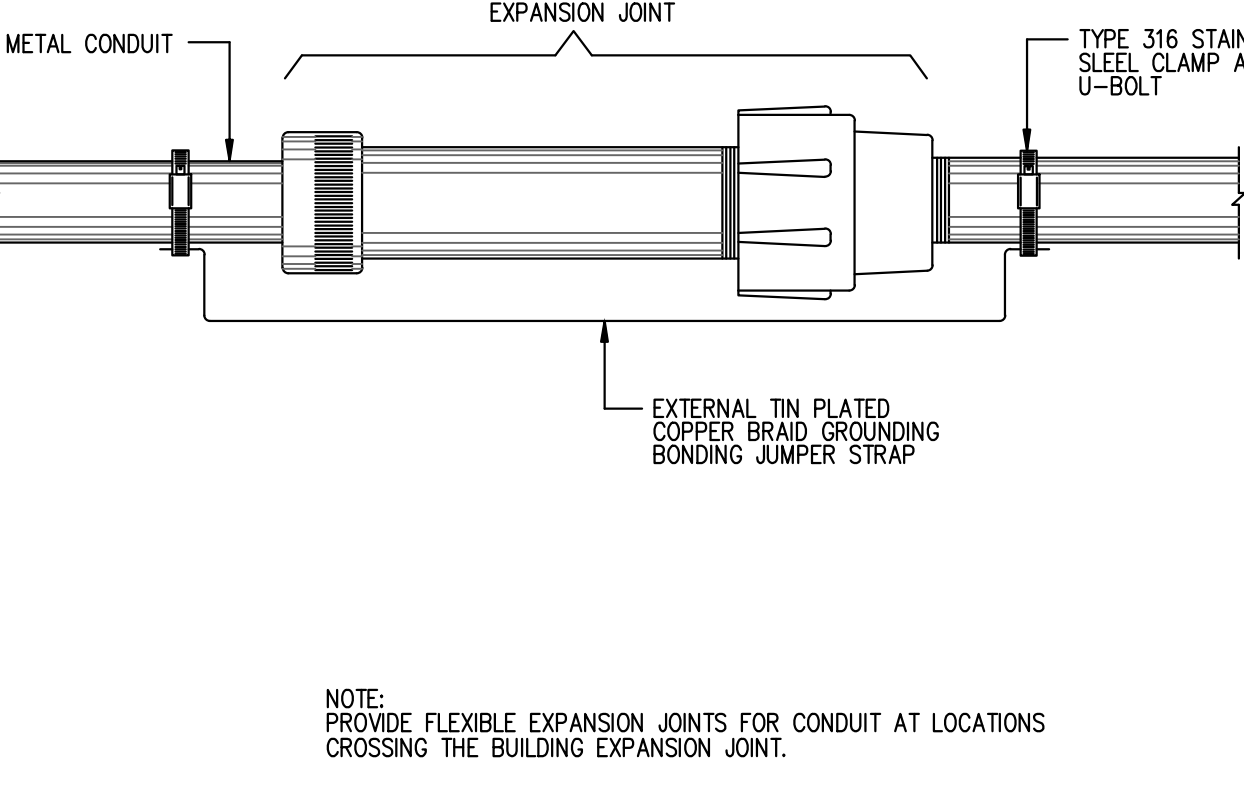
**EXISTING ROOF TOP UNIT WIRING DIAGRAM**  
 SCALE: NONE **7**



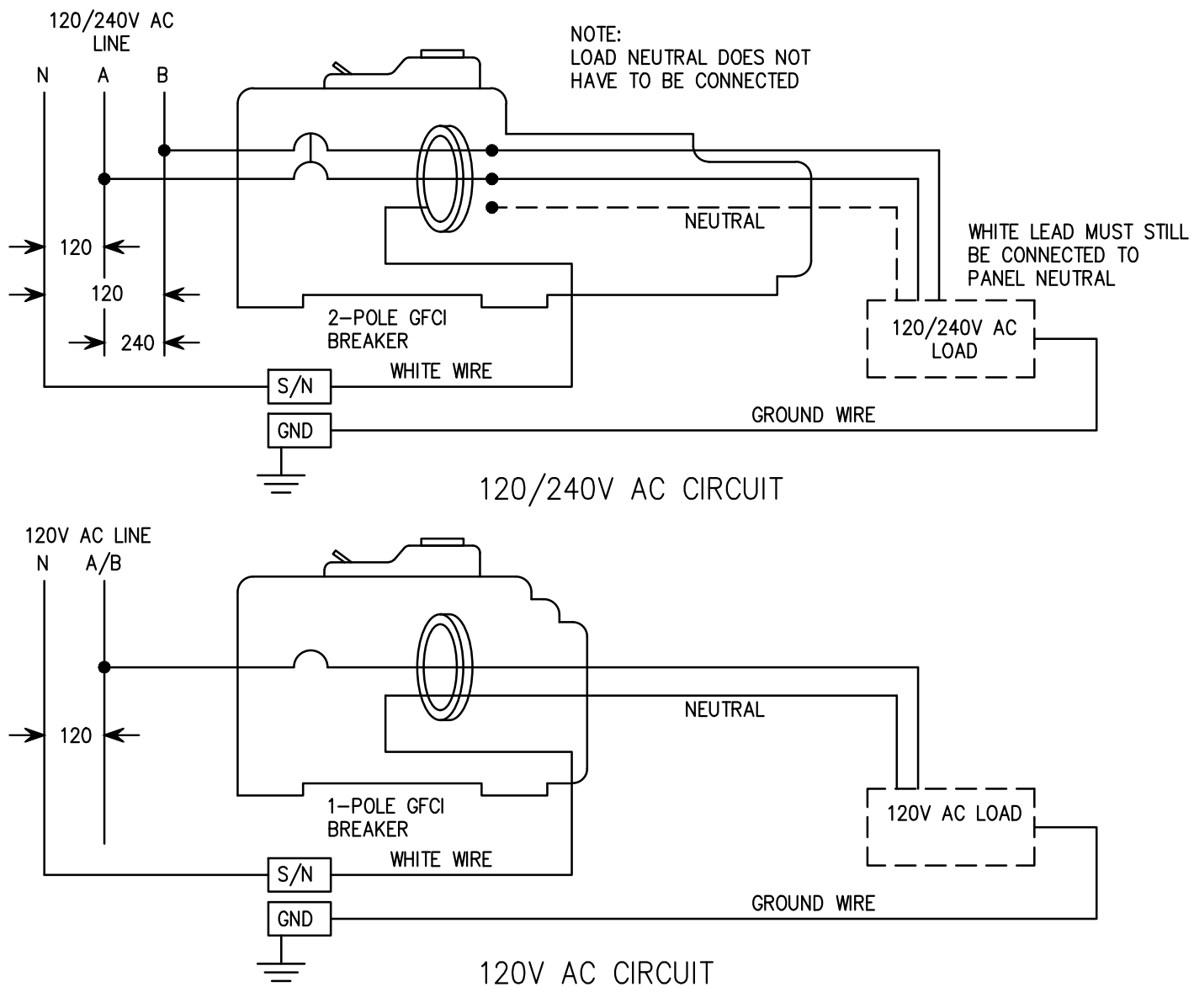
**POWER-DATA SECURITY MONITOR**  
 SCALE: NONE **8**



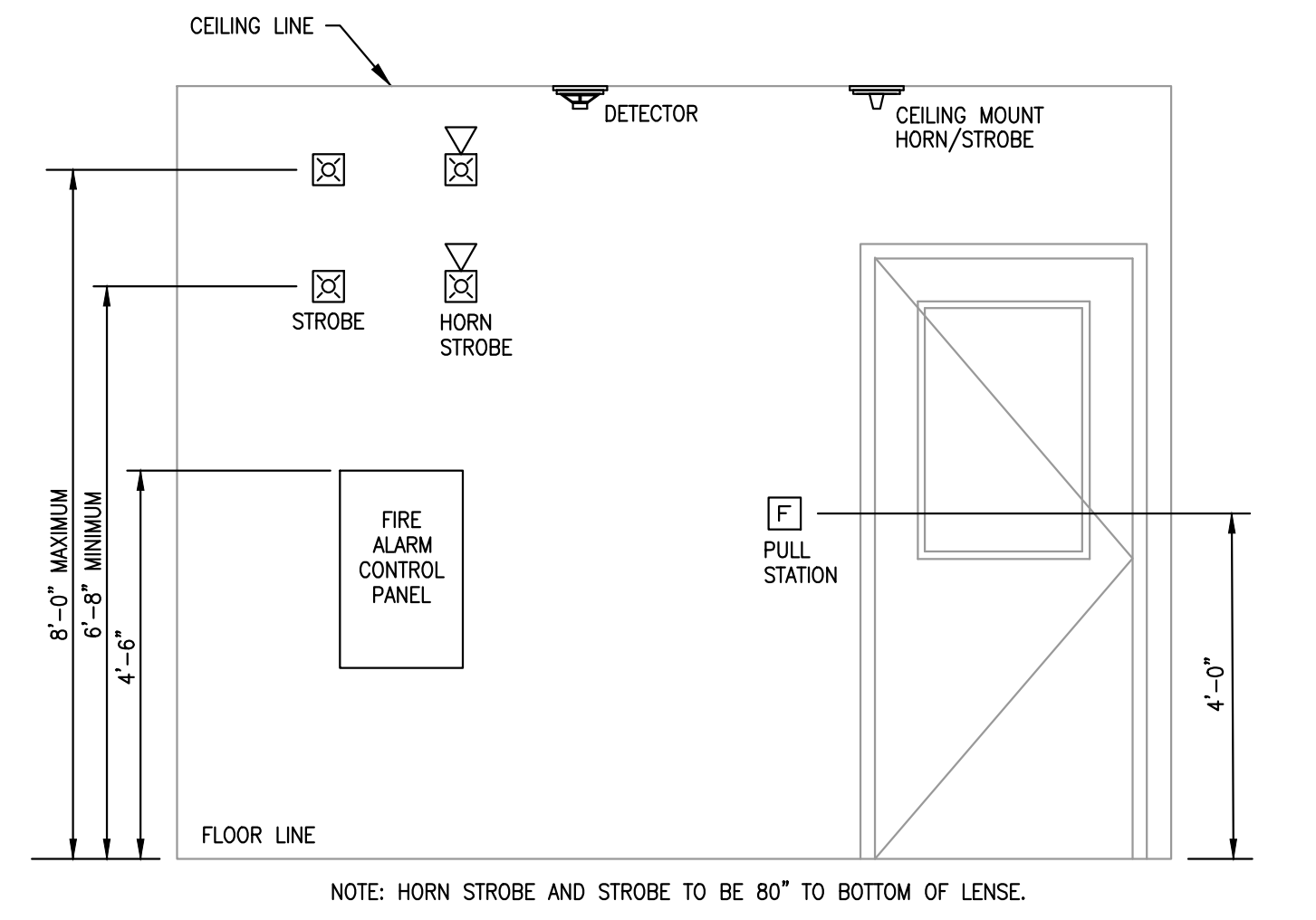
**FIRE RATED WALL PENETRATION DETAIL**  
 SCALE: NONE **9**



**EXPANSION JOINT DETAIL**  
 SCALE: NONE **10**



**120V-1 POLE AND 208V-2-POLE GFCI BREAKER WIRING DIAGRAM**  
 SCALE: NONE **11**



**FIRE ALARM MOUNTING HEIGHT DETAIL**  
 SCALE: NONE **12**

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Section 00120 - Supplementary Instructions to Bidders
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Section 00700 - General Conditions
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BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

SECTION 00100 - INSTRUCTIONS TO BIDDERS

- 1. AIA Document A701, latest Edition, "Instructions to Bidders" are included as part of these specifications as if herein reprinted in full.
a. A copy of AIA A701, latest edition may be obtained from Owner, Architect, or directly from: The American Institute of Architects 1735 New York Avenue, N.W. Washington, D.C. 20006.
2. Contractor shall utilize the following documents, latest edition, in the negotiation and execution of the project:
a. AIA Document A701 - Instructions to Bidders
b. AIA Document G702 - Application and Certificate for Payment
c. AIA Document G703 - Continuation Sheet
d. AIA Document G701 - Change Order
e. AIA Document G705 - Certificates of Insurance
f. AIA Document G706 - Contractor's Affidavit of Payment of Debts and Claims
g. AIA Document A706 - Contractor's Affidavit of Release of Liens
h. AIA Document A201 - General Conditions of the Contract for Construction
i. AIA Document A101 - Owner Contractor Agreement Form - Stipulated Sum

SECTION 00120 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

The following supplements modify, change, delete from, or add to the instructions to Bidders (AIA A701, latest Edition) Where any article of the instruction to Bidders is modified or any paragraph, sub-paragraph, or clause thereof is modified or deleted by these Supplemental Instructions the unaltered provisions of the article, paragraph, sub-paragraph, or clause shall remain in effect.

- 1. Article 1, Paragraph 1.8; add: Bidding is by invitation from the Owner, only.
2. Article 1, add Paragraph 1.10:
1.10 The term "Architect" as used herein, shall be construed to mean the "Owner", as the Owner will administer the bidding procedures.
3. Article 3, Paragraph 3.1.1 delete and insert the following:
Owner will provide each invited Bidder a complete set of electronic files (.pdf format) of the Bidding Documents. Bidding contractor will be responsible for printing and distribution.
4. Article 4, Paragraph 4.1.1 delete and insert the following:
4.1.1 Bids shall be submitted on forms identical to the Bid Form provided by the Owner, one (1) original with original signature(s). Bids transmitted via facsimile or e-mail, provided they are received by the prescribed deadline, are acceptable. Originals shall be sent by overnight service for next day delivery.
5. Article 4, Paragraph 4.2:
Delete this paragraph in it's entirety, as no bid security will be required
6. Article 4, Paragraph 4.4.1:
The stipulated time period shall be construed as 120 calendar days.
7. Article 5, add Paragraph 5.3.3:
5.3.3 Voluntary alternates, if offered by the Bidder, will not be considered in determining the lowest responsible Bid. However, the Owner reserves the right to accept or reject any or all voluntary alternates, prior to award of contract.
8. Article 6, Paragraph 6.2:
Delete this paragraph in its entirety.
9. Article 7, Paragraph 7.1.1:
Bond requirement will be an option reserved by the Owner.
10. Article 7, paragraph 7.2.2:
Delete "unless otherwise provided," and substitute "unless otherwise acceptable to the Owner."

SECTION 00300 - BID FORM

- 1. The form of proposal will be furnished separately by the Owner.
SECTION 00700 - GENERAL CONDITIONS
1. AIA Document A201, Latest Edition, "General Conditions of the Contract for Construction" are included as part of these specifications same as if herein reprinted in full.
a. A copy of AIA A201, may be obtained from Owner, Architect, or directly from: The American Institute of Architects 1735 New York Avenue, N.W. Washington, D.C. 20006.
SECTION 00800 - SUPPLEMENTARY CONDITIONS
The following supplements, modify, change, delete from, or add to General Conditions (AIA A201), Where any article of the General Conditions is modified or any paragraph, sub-paragraph, or clause thereof is modified or deleted by these Supplemental Instructions, the unaltered provisions of the article, paragraph, sub-paragraph, or clause shall remain in effect.
1. Article 4, Paragraph 4.2.1: delete and substitute:
4.2.1 All references used throughout these documents requiring the Architect to act, approve, observe or otherwise use his professional judgment regarding this project, will become the sole responsibility of the Owner, who may consult with the Architect on periodic basis as the Owner deems necessary to assure compliance with the Contract Documents.
2. Article 7, Paragraph 7.3.6 is further clarified as follows:
When the Owner authorizes the Contractor to perform changes or additions involving extra labor and material, and if the Contractor is directed to proceed on the basis of the actual cost of labor and material by Change Order, the following allowances will be allowed for Overhead (including Bond and Insurances) & Profit:
(1) For the Contractor: To be noted in the General Contractor's Bid submittal.
(2) Extra work covered by unit prices as requested in the Bid Form, include Contractors overhead and profit.
(3) Superintendents time shall not be included in T & M extra work.
3. Article 8, add Paragraph 8.3.4:
8.3.4 The Contractor shall have no claim for an extension of time unless such time is stated on the face of a written Change Order and approved and accepted in writing by the Owner on such Change Order. Any attempted reservation by the Contractor or the right to subsequently claim any extension of time not stated on the face of a written Change Order approved and accepted by the Owner shall be null and void.
4. Article 9, Paragraph 9.3.1; add the following:
Payment requests must be received by the Owner no later than the 26th day of each month, and must be accompanied by a lien waiver in full for each participating contractor, subcontractor, and supplier seeking payment. Owner will not be required to make any payment without the required lien waivers.
5. Article 9, Paragraph 9.4: Delete in its entirety.
6. Article 9, Paragraph 9.6.1: Delete and substitute:
9.6.1 Upon receipt of Contractor's Application for Payment, Owner will make such payment to the Contractor within 15 days or as soon as practical thereafter.
7. Article 9, add Paragraphs 9.10.6 and 9.10.7:

- 9.10.6 Before Owner issues final payment hereunder, the Contractor shall submit to the Owner; (a)an affidavit that all payroll and bills for material and equipment, and, other indebtedness connected with the work for which the Owner or its property agent in any way be responsible, have been paid or otherwise satisfied, (b) the consent of surety to final payment and (c) if required by the Owner, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the Contract Documents, to the extent and in such form as may be designated by the Owner. If any Subcontractor and/or Material man refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond, at it's expense, satisfactory to the Owner to indemnify the Owner against such lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to the Owner all monies that the Owner may be compelled to pay in discharging such lien, including, without limitation, all costs and reasonable attorneys' fees.
9.10.7 All waivers and subordination agreements required hereunder shall be in the form acceptable to the Owner.
8. Article 11, delete first paragraph of 11.1.1 beginning with "The Contractor" ending with "...be liable", and substitute the following:
11.1.1 Prior to the commencement of the Work, Contractor shall procure, and Contractor shall maintain, all insurance required under this Paragraph 11.1.1. Contractor shall require each Subcontractor to provide coverage adequate to protect Subcontractor and it's employees. If the terms of coverage of such policies are unacceptable to Owner, Contractor and/or subcontractor shall revise the coverage or obtain additional coverage as reasonably requested by Owner. Owner's approval of Contractor's and any Subcontractor's insurances shall not relieve or limit their liability under the Contract Documents. In the event of the failure of Contractor to furnish and maintain such insurance, then the Owner shall have the right, but not the obligation, to take out and maintain such insurance for and in the name of Contractor and Contractor shall pay the cost thereof and furnish all necessary information to permit the Owner to take out and maintain such insurance for the account of Contractor. Contractor shall not allow any Subcontractor to commence work on its subcontract until all insurances required of Subcontractor have been obtained. Contractor shall purchase and maintain such insurance as will protect it from claims set forth below which may arise out of or result from Contractors operations under the Contract Documents, whether such operations be by Contractor or by Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.
9. Article 11; delete paragraph 11.1.2 and substitute the following:
11.1.2 The liability insurance purchased and maintained by Contractor pursuant to this paragraph and 11.1.1 shall include the types and be in the minimum amounts as follows:
(a) Workman's Compensation
(b) Workers' or workman's compensation - maximum permitted by statute, unlimited if permitted.
(c) Employer's Liability - \$1 million.
(d) Umbrella Excess Liability: \$3 Million per occurrence / aggregate.
10. Article 11, paragraph 11.3:
Delete all references to Owner furnished property insurance.
The Owner shall furnish Builders Risk Insurance, including the perils of fire, extended coverage, vandalism, and malicious mischief in an amount of not less than 100% of the insurable value of all the work, and the coverage written on Builders Risk Coverage Form CPO020, Including Causes of Loss Basic Form CP1010 or Causes of Loss - Broad Form CP1020 or Causes of Loss - Special Form CP1030 or an acceptable inland Marine "All Risk" installation floater form, with a company authorized to do business in the state in which the project is located.

SECTION 01010 - WORK COVERED BY CONTRACT DOCUMENTS

- 1. The Contractor shall complete all Work as provided for in Contract Documents including Drawings and Specifications. Anything mentioned in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be furnished and installed as if shown and mentioned in both. The Contractor shall furnish all materials or labor required to complete Work shown on the Drawings and called out in the Specification, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.
2. The organization of the Specifications into Divisions, Sections and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the Specifications into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.
SECTION 01015 - OWNER FURNISHED ITEMS AND EQUIPMENT
1. Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way evidence completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof. Refer to Responsibility List on the drawings for a more complete listing.
2. Categories of Items:
a. By Owner: Items shown or noted "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor for installation by Contractor as part of the construction contract. Contractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:
1. Kitchen Exhaust Hood (Hoods) including Exhaust Fans, Motors, Starters, Heaters, Curbs and Fire Suppression System.
b. Not in Contract (NIC): Items shown or noted "NIC" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract, except as described hereinafter. The Contractor shall receive, unload as required, store, and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:
1.Kitchen equipment, including walk-in cooler/freezer equipment (coils, compressors, etc.) and beer cooler boxes. This equipment shall be furnished, assembled and set in place under separate contract, with final connection of gas, water, electricity and exhaust devices as shown on the Mechanical and Electrical drawings to be accomplished under the General Contract for Construction.
2.All loose furnishings such as booths, table tops, chairs, stools, etc., and interior decor items.
3. Audio system (to include monitor and speaker attachment, cable & pulling cable)
4. Signs and Signage, (Owner installed, wired by Contractor)
5. Telephone system.
6.POS System (includes cabling, registers and printers). General Contractor to provide conduit.
7.Stainless steel fabrications including counters, wall panels, and corner guards, furnished and installed by Owners Food Service Contractor with final connections by Contractor.
3. Receipt of Items:
a. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall:
1. Make notation of any and all discrepancies on the delivery ticket(s).
2. Call delivery carrier and advise him of the problem.
3.Notify the Owner immediately.
4. Storage:
a. Contractor, upon receipt of items furnished "By Owner", shall provide safe and secure storage and shall assume full responsibility for any damage or theft that may occur.
SECTION 01029 - CHANGE ORDER PROCEDURES
1. Owner: The General Conditions of the Contract for Construction, AIA Document A201, govern the work of this Section.
2.Proposal Request
a.If the Owner considers a change to the Work, the Owner will issue a formal request for Contractor's proposal for changes to the Contract. The request shall include data identifying the project and these paragraphs:
"You are requested to submit a detailed proposal response, within 10 days of the date of issuance of this request, covering the increase or decrease in price and/or any changes in the time for completion attributable to the following possible changes in the work of this contract."
b.This request does not authorize contractor to proceed with the above possible changes. If contractor's proposal is acceptable to the Owner, a Change Order will be issued authorizing you to proceed.
3. Contractor Response: Respond with formal written proposal referencing Owner's request number, job name, date, specific items requested and indicate total amount of change imposed costs and construction time consideration for each request. Give each numbered request individual response. Do not lump two or more proposals on one response.
SECTION 01039 - COORDINATION
1. Notify the Owner in a timely fashion if a problem develops with the performance of the separate contractors.
2. Coordinate scheduling and work of the various trades to assure efficient and orderly sequence of installation of interdependent construction elements.
3. Verify the utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.
4. Coordinate space requirements and installation of mechanical and electrical work, which are indicated diagrammatically on the architectural and engineering drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practical. Place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
5. Coordinate completion and clean-up of work of separate sections in preparation for substantial completion.
6. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with contract documents, to minimize disruption of Owner's activities.
SECTION 01070 - CUTTING AND PATCHING
1. Executing, cutting (including excavating), fitting or patching of work, required to:
a. Make several parts fit properly.
b. Uncover work to provide for installation of ill-timed work
c. Remove and replace defective work.
d. Remove and replace work not conforming to requirements of Contract Documents.
e. Remove samples of installed work as specified for testing.
2. Execute cutting and patching by methods that will prevent damage to other work and will provide proper surfaces to receive installation of repairs and new work.
3. Employ original installer to perform cutting and patching for exposed finished surfaces.
4. Refinish entire surface as necessary to provide an even finish.
a. Continuous surfaces: To nearest intersection.
b. Assembly: Entire refinishing.
SECTION 01200 - PRECONSTRUCTION MEETING
1. Owner will administer pre-construction conference for execution of Owner-Contractor Agreement and exchange of preliminary submittals.

- 2. Owner will schedule meeting at project site for clarification of Contractor responsibilities in use of site and for review of administrative procedures.

- 3. Attendance: Job superintendent, representative of the Contractor's home office, major subcontractors and suppliers, Architect and Owner representative. Others as appropriate to agenda topics.

- 4. Suggested Agenda: Review progress schedule and adjustment thereto, delivery schedules, submittal, maintenance of quality standards, pending changes and substitution and other items affecting progress of work.

- 5. Contractor shall schedule, organize and chair any subsequent Project Meeting during normal working hours.
SECTION 01300 - SUBMITTALS

- 1. Deliver submittals to Owner unless otherwise directed.
2. Identify submittals with Contractor's name, project name/location and date of submittal.
3. Make any corrections to the submittal required by Owner or Architect and resubmit until approved. Direct specific attention in writing to revisions on re-submittals other than the corrections required by Architect on previous submittals.
4. Construction Schedule
a. Within ten (10) days after execution of the Contract or the date of written notice to commence the work, whichever is earlier, submit three (3) copies of a detailed construction schedule for approval.
b. Schedule shall graphically show the relationship and interdependence of all activities, necessary to fully complete the work and shall show the sequence in which each activity is to be accomplished. The detail of information shall be such that duration times of activities shall normally range from one (1) to fifteen (15) days.
c. Schedule shall give description of each activity, show its duration in calendar days and reference its start and finish dates to calendar dates.
5. Shop Drawing and Samples
a. Submit all drawings, diagrams, illustrations, schedules, performance charts, instructions, specifications and other product data illustrating portions of the work as required by the specification sections. Such submittals, whether or not referred to as shop drawings, shall comply with the requirements for shop drawings hereinafter prescribed. Unless otherwise noted in the specifications sections, submit a minimum of three (3) sets of shop drawings. Two (2) sets will be returned to Contractor unless otherwise requested.
b. Unless the precise color and pattern is specifically specified in the specifications sections, and whether a choice of color or pattern is available in a specified product, submit accurate color and pattern charts and samples for review and selections.
c. Review, stamp with Contractor approval, sign and submit within thirty (30) days after execution of the Contract of the date of written notice to commence the work, whichever is earlier, all shop drawings and samples. Shop drawings or samples submitted without Contractor's approval stamp will be returned without review. Submit shop drawings and samples in an orderly sequence so as to cause no delay in the work of other contractors.
d. Shop drawings and samples will be reviewed by Architect to determine in general if they are in compliance with the Contract Documents. Such approval shall not relieve Contractor of responsibility for any deviations from the requirements of the Contract Documents nor from the responsibility for errors or omissions in the shop drawings or samples.
e. Do not commence any portion of the work until the submittal has been approved as prescribed herein. All such portions of the work shall be in accordance with approved shop drawings or samples.
6. Schedule of Values
a. Submit a schedule of values for various portions of the work within ten (10) days after execution of the Contract or the date of written notice to commence the work, whichever is earlier. Show the amounts of the Contract Sum allocated to each portion of work, on AIA G702.
7. Certificate of Compliance
a. Submit in duplicate, certificates of compliance for each product specified, prior to installation of the applicable product.
b. Certificates of compliance shall include certified laboratory test reports, manufacturers certificates or other evidence sufficient to verify compliance with the products specified.
SECTION 01400 - QUALITY CONTROL
1. Perform work in the most workmanlike manner and according to best standard practices. All work shall be free from faults and defects in workmanship.
2. Contractor shall be solely responsible for quality control of the work and shall maintain quality control over suppliers, manufacturers, products, services, site conditions and workmanship, to produce work of specified quality.
3. Testing and inspection, where required by the specification sections, shall comply with the specific requirements of the applicable specification section and the general requirements contained herein.
4. All testing and inspection whether required by the specification section or by laws, ordinances, rules, regulations, codes or orders of any public authority having jurisdiction or whether performed by Contractor for quality control shall be at contractor's expense unless otherwise indicated in the Contract Documents.
5. Where specifications sections require testing or inspections by a testing laboratory, engage a reputable, independent testing laboratory specializing in the required services unless the testing or inspection is indicated as furnished by Owner. Testing laboratory shall be approved by the Owner.
6. Secure required certificates of testing, inspection or approval and promptly deliver to Owner.
7. Promptly replace or correct all work found not to be in compliance with the requirements of the Contract Documents and the requirements of any public authority having jurisdiction so as not to delay the work or the work of other contractors regardless of how such failure to comply may be revealed. Replacement and correction shall be expedited as required to maintain interim contract completion dates and the full completion date.
SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS
1. Field Office: Provide on site office with job telephone and fax machine.
2. Toilet Facilities: Provide temporary toilet facilities for use by the contractor's employees, all subcontractor employees and by employees of separate contractors. Facilities shall comply with all local requirements for temporary sanitary facilities.
3. Provide barriers and other precautions as necessary to protect adjacent properties outside the limits of this project from damage from the construction process. Special precautions shall be taken to avoid any damage to existing overhead and underground utilities owned or operated by the Owner or by public or private utility companies.
4. Provide dumpster for construction waste and waste from equipment and materials provided by Owner. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition. Remove debris and rubbish from pipe chases, plenums, and other closed or remote spaces prior to enclosing the space. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust. Remove waste materials, debris, and rubbish from site daily and dispose off-site.
5. Provide temporary water, storage tanks, piping, valves, fittings, hoses and hose connections during construction and testing.
6. Provide, pay for and maintain wiring, fuses; disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act of 1970." Temporary generators, if required, are to be included in the Contract Proposal if temporary electric service is not available.
a.Minimum Service: One (1) 200 ampere temporary service distribution panel consisting of 120/240 volt, single phase, three wire service with branch wiring of sufficient capacity with fused switches for 120 volt lighting and small power tool outlets throughout the building. General lighting consist of 150 watt (minimum) lamps and waterproof sockets and power outlets consisting of 120 volt pendant type cord connectors for fractional horsepower electrical tools throughout the building.
7. Provide, pay for and maintain all temporary heating facilities required during the progress of the work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.
8. Provide security and facilities to protect the work and the Owner's operation from unauthorized entry, vandalism, or theft.
9. Provide operable fire extinguishing devices in well-marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

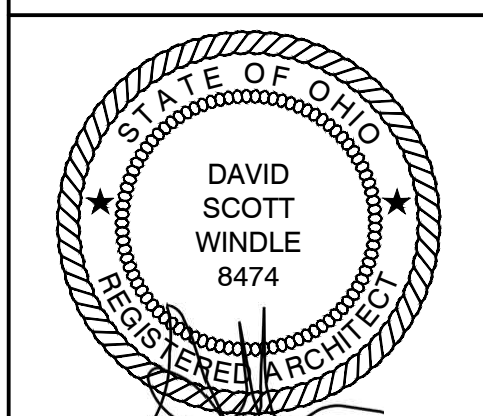
ARCHITECT:

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CORPORATE:

DICKEY'S BARBECUE RESTAURANT, INC. 4514 COLE AVENUE, SUITE 1100 DALLAS, TEXAS 75205 972.248.9899



DAVID SCOTT WINDLE LICENSE #8474 EXPIRATION: 12/31/2023

07/13/22

DICKEY'S BBQ PIT CASCADES OF BRIMFIELD 3975 CASCADES BLVD., SPACE 233A KENT, OH 44240 CLIENT: DANIEL UNSWORTH 3717 WOODS TRAIL KENT, OH 44240



OH-2193

Table with columns: DATE, DESCRIPTION. Rows: 07/08/22 CORPORATE REVIEW, 07/13/22 PERMIT ISSUE

SHEET NUMBER:

Table with columns: Δ, DATE, DESCRIPTION. Multiple empty rows for notes or revisions.

SHEET TITLE:

SPECIFICATION

SHEET NUMBER:

SP1.0

BDSA PROJECT NUMBER:

DBQ22008

**SECTION 01600 - MATERIALS AND EQUIPMENT**

- Where acceptable manufacturers, are listed in the specification sections, obtain materials and equipment in compliance with the requirements specified from one of the manufacturers listed.
- Components required to be supplied in quantity within a specification sections shall be the same, supplied by same manufacturer and shall be interchangeable.
- All materials and equipment shall be new, unless otherwise specified, and of first class quality, free from any faults or defects including blemishes, dents, imperfections, rust, and stains. Do not incorporate faulty or defective materials or equipment into the work.
- Handle and store materials and equipment in accordance with manufacturers' and suppliers' recommendations and store packaged materials and equipment in original, undamaged condition with manufacturers label and seals intact.
- No substitutions for the materials and equipment specified shall be made unless written approval has been given as required in the General Conditions by Owner. Substitutions will be considered only if Owner receives the advantage of lesser cost with no increase in quality, or earlier completion date or both.

**SECTION 01650 - TESTING, ADJUSTING, AND BALANCING OF SYSTEMS**

- Test piping systems as required by individual Sections of the Specifications and as required by regulatory authorities having jurisdiction.
- Balance air delivery systems; heating, ventilating and air conditioning.
- Qualifications: Prior to start of work, submit name of organization proposed to perform services. Designate managerial responsibilities for coordination of entire testing, adjusting, and balancing. Submit documentation to confirm organization and personnel qualifications.
- Final Reports: Fifteen days prior to Substantial Completion, submit three copies of final reports. Submit reports of testing, adjusting, and balancing which is postponed due to seasonal, climatic, occupancy, or other reasons beyond Contractor's control, promptly after execution of those services.
- Comply with procedural standards of certifying association under whose standards service will be performed.
- Notify Owner three days prior to beginning of testing operations.
- Forms: Each Form shall bear signature of recorder and that of supervisor of reporting organization.
- Contractor shall prepare each system for testing and balancing and notify testing organization seven days prior to time system will be ready for testing, adjusting, and balancing.
- Provide instruments required for testing, adjusting, balancing operations. Make instruments available to Owner to facilitate spot checks during testing. Retain possession of instruments and remove at completion of services.
- Verify installation of system to be tested is complete and in continuous operation. Verify ambient conditions and related facilities are in full operation. Verification shall be submitted to the Owner in writing.
- Provide testing in accordance with these Specifications and with requirements of regulatory authorities, test piping systems to pressures and/or water head required for periods required. If leaks are discovered in pipe, fittings and/or accessories, in particular system being tested, repair leaks and repeat procedure until no leaks can be found while system is being tested subject to original requirements.
- Balancing Air Systems: Balance to quantities shown on the Drawings. Record air quantities at each grille or outlet. Instruments and procedures shall comply with grille manufacturer's recommendations and the latest edition of Sheet Metal and Air Conditioning Contractor's National Association Manual. Air balancing shall be performed, report forms submitted and accepted by Owner before system will be accepted.
- Water Piping Systems: Water piping systems shall be properly tested to a hydrostatic pressure of one hundred and fifty pounds per square inch (150 psi) gauge minimum, or as required by local regulations, for a period of not less than twelve (12) hours. During this test period, all leaks in pipe, fittings, and accessories in the particular piping system which is being tested, shall be stopped and the hydrostatic test shall again be applied. This procedure shall be repeated until, for an entire twelve (12) hour period, no leaks can be found while the system is being tested and subject to the pressure mentioned above.

- Sanitary Drains: System shall have all outlets temporarily plugged. The pipes shall be filled with water, testing the system in section, such that no sections shall be tested with less than a ten (10) foot head of water. The same testing procedure shall apply to the downspout piping. If, after twenty-four hours, the level of the water has been lowered by leakage, the leaks must be found and stopped and the water level shall again be raised and the test repeated until, after a twenty-four (24) hour retention period, there shall be no perceptible lowering of the water level of the system tested.

- During the progress of the work maintain a set of drawings at the project site for preparing record drawings. Neatly record all changes in the work and record specific locations of work shown mathematically on the drawings. In addition, record the following on mechanical and electrical drawings.
  - Location of concealed water and electrical services, water piping, sewers, wastes, vents, ducts, conduit, and other piping by indication of measured dimensions to such line from readily identifiable walls or corners of buildings.
  - Invert elevations of sewers and top of water lines.
- Submit the record drawings to Owner for approval with the Punch List and written notice that the work is ready for verification of substantial completion required in the General Conditions. If Owner determines that the drawings are incomplete or incorrect in any way, he will advise Contractor of the required corrections and Contractor shall promptly submit corrected drawings. Record documents shall be delivered to Owner prior to final payment for the work.
- Prepare two (2) complete sets of manuals containing the manufacturers instructions for operation and maintenance of each item of equipment, apparatus and operational system furnished under the Contract and any additional data specifically required in the specification sections.

- Manuals shall be bound with covers of durable material, arranged in the sequence of the specification sections and shall include the following:
  - Neatly typewritten index.
  - Complete instructions regarding operation, service and maintenance including lubrication, disassembly, and reassembly.
  - Complete nomenclature of all parts and part numbers of all replaceable parts.
  - Complete list of sources to be contacted for service and replacement parts including names, addresses and all other pertinent data regarding procurement procedure.
  - Copy of all required guarantees and warranties.
  - Manufacturer's bulletins, cuts, and description data clearly indicating the precise items included in this installation and deleting, or otherwise clearly indicating, all manufacturers' data with which this installation is not concerned.
  - Any other data required in the specification sections.
- The operating and maintenance manuals shall be delivered to the Owner prior to final payment for the work.
- If requested by Owner, give physical demonstrations and oral instructions for the operation of equipment, apparatus, and operational systems furnished under the contract. Such demonstrations and instructions shall be given to Owner and/or others as Owner may choose.

- In addition to the information listed in Item 3 above, the Contractor shall include in the project manual the following:
  - General Contractor's 1-year written guarantee.
  - All final lien waivers.
  - Copy of Certificate of Occupancy.
  - Copy of signed off permit card.
  - List of subcontractors with names of contact person and phone numbers.
  - Soil poisoning warranty.
  - Roof warranty.
  - All test results (soils, concrete, etc.).
  - As-built drawings.

**SECTION 01710 - CLEANING**

- All cleaning shall be the responsibility of the Contractor unless specifically noted otherwise.
- Maintain premises and public properties free from accumulations of waste, debris and rubbish caused by operations.
- At completion of work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials and clean all sight exposed surfaces; leave project clean and ready for occupancy.
- Maintain project in accord with Occupational Safety & Health Act of 1970, as amended, in terms of clean up.
- Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
  - Do not burn or bury rubbish and waste materials on project site.
  - Do not dispose of volatile waste such as mineral spirits, oil or paint thinner in storm or sanitary drains.
- During Construction
  - Execute cleaning to ensure that roadway, walks, ground and public properties are maintained free from accumulations of waste materials and rubbish.
  - Wet down dry materials and rubbish to lay dust and prevent blowing dust.
  - Provide on-site containers for collection of waste materials, debris, and rubbish.
  - Remove waste materials, debris and rubbish from site and legally dispose of at public or private dumping area off Owners property.

- Accumulation of loose material, trash, rubbish, and debris will not be permitted.
- Each contractor shall be required to dispose of waste materials on a regular basis.
- Final Cleaning
  - In preparation for occupancy, conduct final inspection of sight-exposed interior and exterior surfaces and of concealed spaces.
  - Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign material from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to a shiny finish.
  - Repair, patch, and touch-up marred surfaces to specified finish, to match adjacent surfaces.
  - Remove all foreign material from roof and site area.
  - Perform all final cleaning, including the following:
    - Employ experienced workmen or professional cleaners for final cleaning.
    - Wash and clean all glass, removing labels and paint.
    - Broom clean paved surfaces; rake clean other surfaces of grounds.
    - Clean all floors or dirt and dust.
  - Respective contractors shall perform cleaning of their equipment.
  - Walkways and floor drains in respective pipe work shall be cleaned
  - Replace burned out or inoperative lighting lamps.
  - Owner will assume responsibility for cleaning as of time designated on Certificate of Final Acceptance or Conditional Acceptance or partial occupancy, whichever is first, for Owners acceptance of Project or portion thereof.

**DIVISION 2 - SITEWORK**

**SECTION 02072 - SELECTED DEMOLITION**

- Section Includes:
  - Removal of existing construction indicated on Drawings and/or required by work specified in other Sections of these Specifications.
  - Capping and Identifying Utilities
  - Protection of persons and property.
- Contractor is solely responsible for coordination of work of this Section with work of subcontractors and Owner's staff for work of other Sections of these Specifications.
- General
  - Maintain protected access at all times. Use of explosives is prohibited.
  - Erect and maintain weatherproof closures for exterior openings. Erect and maintain temporary partitions to prevent spread of dust, fumes, noise, and smoke. Protect existing items, which are not indicated to be altered.
  - Existing Utilities: Disconnect, remove, and cap designated utility services within demolition areas. Mark locations of disconnected utilities. Identify and indicate capping locations on Project Record Documents.
  - Erect and maintain fences, planking, bracing, shoring, lights, barricades, warning signs and guards required for protection of workmen and the public.
  - Use care and appropriate means to protect construction and property, which is not part of Work of Contract. Repair, refinish and/or replace damaged construction and property at no additional cost to Owner.
  - Demolish in orderly and careful manner with least possible disturbance to public and to adjacent property.
  - Except where noted otherwise, immediately remove and dispose of demolished materials away from site. Do not burn or bury materials on site.
  - The General Contractor, immediately following demolition shall measure the space to confirm the overall dimensions match those shown in the architectural drawings. If discrepancies occur, the Contractor shall immediately inform the Architect.

**SECTION 02200 - EXCAVATION, BACKFILLING, COMPACTION, AND GRADING**

- The following are general guidelines for excavation, backfilling, compaction and grading. The contractor shall follow the specific recommendations made in the soils report and/or construction documents. When not specifically addressed in the construction documents, contractor shall comply with the provisions herein.
- Excavate for footings; foundations structures, utilities, etc. to indicated depth. All excavation shall be assumed as earth.
    - Trim bottoms to leave solid, undisturbed base for concrete placement. See Soils Report for bearing capacity.
    - All foundation excavation shall be kept dry, and protected from freezing.
    - Correct unauthorized excavation in a manner acceptable to Owner.
  - Excess earth not required for backfill shall be removed from site. General Contractor responsible for topsoil placement and raking to grade.
  - Compact backfill to density of adjacent soil, as follows, whichever is greater: (Refer to Soils Report for other recommendations).
    - Compact soil to not less than the following percentages of maximum density for soils, which exhibit a well-defined moisture-density relationship (cohesive soils) determined in accordance with ASTM D1557; and not less than the following percentages of relative density, determined in accordance with ASTM D2049, for soils which will not exhibit a well-defined moisture-density relationship (cohesionless soils).
    - Under Buildings and Paved Areas: Compact top 8 inches of existing surface and each layer of backfill of fill material to 95 percent maximum density (Standard Proctor) for cohesive soil or 98 percent relative density (Standard Proctor) for cohesionless soils.
    - Other Areas: Compact 8 inches of existing ground surface and each layer of backfill of fill material to 90 percent maximum density (Standard Proctor) for cohesive soils or 85 percent relative density (Standard Proctor) for cohesionless soils.
    - Where soil materials must be moisture conditioned before compaction, uniformly apply water to surface, Prevent Free water from appearing on surface of soil materials during or subsequent to compaction operation.
    - Remove and replace, or scarify and air dry soil material that is too wet to permit compaction to specified density.

- Backfill and fill materials
  - Sand or sand on gravel of engineered (clean) earth fill shall be used under floor slabs on-grade, to underside of equipment.
  - Earth materials taken from the excavation operations and stockpiled on site as acceptable fill material, capable of meeting the specified compaction requirements shall (be used as fill material in areas outside the building.
    - Only 1--inch washed gravel, pea gravel or sand shall be used in utility trenches in paved areas, to top of subgrade.
  - Existing paving, organic material or existing soils shall not be used for filling under building slabs or for filling under pavement.
  - Granular fill under slabs on grade shall be No. 57, 6, or 67 crushed stone per ASTM D448.
  - Remove rock or gravel larger than 2 inches in any dimension, debris, waste, obstructions, and deleterious matter from ground surface prior to placement of fills.

- Grade site to establish required elevations. Maintain proper drainage ways to direct water away from building in final grading.
  - Storm drainage shall be provided as indicated on site plan(s) and installed in accordance with state and local codes and ordinances.
- Grade areas to smooth finished surfaces free from irregular surface changes. Compact with uniform levels or slopes between points and existing perimeter grades.
- The Geotechnical Engineer, provided by the Owner, shall provide observation and testing services during the grading and foundation stage of construction to confirm recommendations in the soils report. Inspection and testing reports shall be submitted to the Owner and Building Department. General Contractor to notify Geotechnical Engineer not less than 48 hours advance notice of readiness for inspection.
- Notify Owner if existing utility lines are encountered in the work area. Protect such utilities from damage.

**DIVISION 3 - CONCRETE**

**SECTION 03300 - CAST IN PLACE CONCRETE**

- Cast-in-place concrete work including all labor, tools, material, equipment and services necessary to properly place and complete all interior and exterior cast-in-place concrete, formwork, reinforcement, joints and embedded items, finishing, curing and concrete testing.
  - Unless otherwise shown or specified, the work shall conform to the following standards of the American Concrete Institute.
- ACI 214, Recommended Practice for Evaluation of Strength Tests Results of Concrete.
- ACI 306R, Cold Weather Concreting
- ACI 315, Manual of Standard Practice for Detailing Reinforced Concrete Structure.
- ACI 318, Building Code Requirements for Reinforced Concrete.
- ACI 347, Recommended Practice for Concrete Formwork.
- ACI 305R, Hot Weather Concreting.
- ACI 211.1, Standard Practice for Selecting Proportions for Normal, Heavyweights and Mass Concrete.
- ACI 304R Guide for Measuring, Mixing, Transporting and Placing Concrete.

**Materials:**

- Portland Cement: ASTM C150; Type 1
- Aggregates ASTM C33
- Water: Clean, fresh, and potable
- Air Content: 5% to 8%
- Air entrainment admixture ASTM C260, No other admixtures, including calcium chloride and fly ash are permitted without prior approval by the Structural Engineer.
  - Bars: ASTM A615, Grade 60 (Grade 40 for stirrups and ties)
  - Fabric: ASTM A185
  - Curing compound: ASTM C309, Type 1, Class A, Sonneborn 'Kure-N-Seal' or equal; two coats for exposed concrete floors.
  - Control joints filler: ASTM D1751, J & P 'Tex-Lite Fiber' or equal, 1/2" thick.
  - Forms: Steel, wood or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects. Use flexible spring steel forms or laminated boards to form radius bends as required. Coat forms with a non-staining form release agent that will not discolor or deface the surface of the concrete.
  - Vapor Barrier: Refer to Structural Drawings
  - Grout: 'Masterflow 928' by Master Builders or equal.

**Concrete Mix:**

- Ready mixed per ASTM C94. Fly-Ash will **not** be allowed.
  - Strength - per construction plans or minimum as follows:
    - Building = 3,000 psi @ 28 days
    - Exterior (exposed) = 4,000 psi @ 28 days
- Slump:
    - 5--inch maximum for general use.
    - 3--inch maximum for flat work.
    - Air entrainment: 5% by volume, +/- 1%.
    - Provide mix design to Owner for review.
  - Verify lines, levels, and measurement before proceeding with formwork.

- Coordinate work of other sections in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors, and other inserts.
- Place, support, and secure reinforcement against displacement per ACI 315.
- Install vapor barrier under interior floor slabs on fill. Lap joints minimum 6--inches and seal. Do not disturb vapor barrier while placing reinforcement.
- Coordinate the installation of joint material and moisture barriers' with placement of forms and reinforcing steel.
- Deposit concrete, continuously, or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints. Deposit concrete as nearly as practical to its final location to avoid segregation.

- Consolidate placed concrete by mechanical vibrating equipment supplemented by hand spacing, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI recommended practices.
- Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.

- Bring slab surface to correct level with straightedge and strike off. Use bull floats or darbies to smooth surface, free of humps and hollows. Do not disturb slab surface prior to beginning finishing operations.
- Maintain reinforcing in proper position during concrete placement.
- Forms may be removed after curing at not less than 50 degrees F. for 24 hours provided concrete is hard enough to not be damaged by form removal operations, and continued curing and protection is maintained.

- Finishing interior slabs: Float finish per ACI 301. Power trowel to produce a smooth surface, relatively free of defects. After the surface has hardened to a point that it may be walked on without leaving imprints, power trowel the floor slab to produce a dense, smooth surface and to burnish a uniform high sheen on the surface.

**SECTION 04210 - THIN BRICK MASONRY**

- Section includes Thin Brick Masonry units, Mortar, accessories and installation.
- References:
  - ASTM C 1088: Thin brick units made from clay or shale
  - ASTM C 216: Standard specification for modular face brick
- Deliver products to site under provisions of these specifications
  - Store and protect products on site.
  - Store mortar and other moisture-sensitive materials in protected enclosures; handle by methods which avoid exposure to moisture.
- Provide manufacturer's written warranty for a period of fifteen years from the date of Owner acceptance of the project against defects in materials and workmanship.
- Conform to manufacturer's printed specifications and instructions for each condition encountered on the job. In general, standard practice will be expected and covered or poor or sloppy workmanship will be rejected.
- Protect materials from rain, wind, moisture, and freezing temperatures prior to, during, and for 72 hours after completion of work.

- The drawings were prepared and portions of this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.
- Materials:
  - Thin Brick Masonry Units: ASTM C1088 Grade Exterior, specific manufacturer, plant, product and blend as noted in finish schedule on the drawings.
  - Mortar: Manufacturer's standard, premixed, pre-colored, water based masonry mortar, minimum compressive strength of 1800 psi; ASTM C270, Type S, non-staining. Color: as noted on drawings. Masonry cement will not be allowed.
  - Weather-resistant Barrier: Kraft waterproof building paper, UBC Standard No. 17-1 or equal.
  - Metal Lath: 18-gauge galvanized woven wire mesh, 2.5 lb. flat diamond self-furring mesh.

**DIVISION 4 MASONRY**

**SECTION 04200 - CONCRETE UNIT MASONRY**

- Mortar Masonry Units:
  - Concrete masonry units shall be from one manufacturer, of uniform texture and color for each type required.
  - Concrete masonry units:
    - Standard Units: Nominal face dimensions of 8 inch x 16 inches long, unless otherwise indicated; complete with corners, bases, bond beams, lintels and fillers to match concrete masonry units; 1-1/4" minimum face shall be cured in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C90, Grade N, Type I.
    - Decorative Concrete Masonry Units: ASTM C 90; Weight Classification, Normal Weight; Type I, moisture-controlled units. Exposed faces with split-face finish. Special shapes for lintels, corners, jamba, sash, control joints, and other special conditions.
    - When concrete unit masonry units are removed from the manufacturer's storage area, each cube or block shall be covered on top and all sides with a waterproof protective material. Protective covering shall be applied prior to the blocks being exposed to the weather.
- Mortar: ASTM C476, Type S, 1800 psi at 28 days.

- Portland Cement: ASTM C150, Type I
  - Aggregates: ASTM C144, standard masonry type; clean, dry and protected against dampness, freezing and foreign matter.
  - Hydrated Lime ASTM C207, Type S.
  - Water: Clean and free from injurious amounts of oil, alkali, organic matter or other deleterious material.
  - Use no admixtures unless written approval is obtained from Owner.
- Grout: Masonry mortar; consistency which will completely fill all spaces intended to receive grout.
  - Reinforcing Bars: 60 ksi yield grade; deformed billet steel bars, ASTM A615.
  - Horizontal reinforcement: Truss type ASTM A92 hot dip galvanized steel wire after fabrication ASTM A153 Class B2 with not less than #9 side rods with #9 cross rods.
    - Dur--O--Wal, AA Wire Products, Heckman, or equal.

- Waterproofing at CMU: Hydro-Seal 75, Grey 3, by Northern Industries, Inc.; high strength, hydrophobic, breathing type, two-component, modified epoxy coating manufactured from a balanced ratio of fillers, and water extended resins and hardeners. Install in strict accord with manufacturer's written installation requirements.
- Maintain materials and surrounding air temperature to minimum 50 degree F. prior to, during and 48 hours after completion of masonry work until complete hydration of the mortar is achieved whichever is greater.

- During freezing or near freezing weather provide adequate equipment or cover to maintain a minimum temperature of 50-degree F. and to protect masonry work completed or in progress.
- Establish lines, levels, and cursing. Protect from disturbances.
- Thoroughly mix mortar ingredients, in quantities needed for immediate use.
  - If necessary, re-temper mortars to replace water lost by evaporation, but do not re-temper or use mortar after two (2) hours from the initial mixing time.
- Place masonry true, level and plumb in accordance with required lines and levels. Do not wet concrete masonry units. Align all vertical cells to maintain a clear, unobstructed system for grouting.
- Full bond external and internal corners and intersections.

- Buttering corners of joints and deep or excessive furrowing of mortar joints will not be permitted.
- Do not shift or tap masonry after mortar has taken initial set. Where adjustments must be made, remove mortar and replace.
  - Lay out masonry so not less than one-third (1/3) of the face of a unit is exposed on the face of the wall of openings, corner or offsets.

- Perform jobsite cutting of masonry with proper power tools to provide straight and true, unchipped edges.
- Ensure masonry courses are of uniform height. Make vertical and horizontal joints equal and of uniform thickness. Lay in full bed of mortar, properly jointed with other work.
- Remove excess mortar and projections. Take care to prevent breaking masonry corners.

- Lay all masonry units in running bond course 1 block unit and 1 mortar joint to equal 8 inches. Form concave mortar joints, where exposed; strike flush where concealed.
- Provide temporary bracing during masonry erection; maintain in place until building structure provides permanent bracing.
- Place masonry reinforcing and anchors for concrete unit masonry as follows:
  - Provide single wythe walls with horizontal masonry reinforcing in every second mortar joint.
  - Place horizontal masonry reinforcing in first and second joint above and below openings. Place continuous in first and second joint below top of walls.
  - Fully reinforce corners and intersections, using prefabricated corner and 'Y' reinforcement sections.
  - Lap masonry reinforcing splices minimum 6 inches.
  - Place vertical reinforcing at indicated centers. Grout cores solid in 4"-0" maximum lifts.
- As work progresses, build-in anchor bolts, and other items embedded in masonry.
- Remove excess mortar and smears upon completion of masonry work.

- Clean solid surfaces of all masonry work exposed to view using sand and water, fiber brushes and soap as required. Remove all dirt, mortar, stains and other defacements.
- Clean and remove all mortar droppings from floor.
- Cover tops of walls when work is not in progress.

- Section includes Thin Brick Masonry units, Mortar, accessories and installation.
- References:
  - ASTM C 1088: Thin brick units made from clay or shale
  - ASTM C 216: Standard specification for modular face brick
- Deliver products to site under provisions of these specifications
  - Store and protect products on site.
  - Store mortar and other moisture-sensitive materials in protected enclosures; handle by methods which avoid exposure to moisture.
- Provide manufacturer's written warranty for a period of fifteen years from the date of Owner acceptance of the project against defects in materials and workmanship.
- Conform to manufacturer's printed specifications and instructions for each condition encountered on the job. In general, standard practice will be expected and covered or poor or sloppy workmanship will be rejected.
- Protect materials from rain, wind, moisture, and freezing temperatures prior to, during, and for 72 hours after completion of work.

**SECTION 04210 - THIN BRICK MASONRY**

- Section includes Thin Brick Masonry units, Mortar, accessories and installation.
- References:
  - ASTM C 1088: Thin brick units made from clay or shale
  - ASTM C 216: Standard specification for modular face brick
- Deliver products to site under provisions of these specifications
  - Store and protect products on site.
  - Store mortar and other moisture-sensitive materials in protected enclosures; handle by methods which avoid exposure to moisture.
- Provide manufacturer's written warranty for a period of fifteen years from the date of Owner acceptance of the project against defects in materials and workmanship.
- Conform to manufacturer's printed specifications and instructions for each condition encountered on the job. In general, standard practice will be expected and covered or poor or sloppy workmanship will be rejected.
- Protect materials from rain, wind, moisture, and freezing temperatures prior to, during, and for 72 hours after completion of work.

- The drawings were prepared and portions of this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.
- Materials:
  - Thin Brick Masonry Units: ASTM C1088 Grade Exterior, specific manufacturer, plant, product and blend as noted in finish schedule on the drawings.
  - Mortar: Manufacturer's standard, premixed, pre-colored, water based masonry mortar, minimum compressive strength of 1800 psi; ASTM C270, Type S, non-staining. Color: as noted on drawings. Masonry cement will not be allowed.
  - Weather-resistant Barrier: Kraft waterproof building paper, UBC Standard No. 17-1 or equal.
  - Metal Lath: 18-gauge galvanized woven wire mesh, 2.5 lb. flat diamond self-furring mesh.

- Sheathed Surface: Install two layers of weather-resistant barrier with lap joints 4 inches shingle fashion, apply code approved metal lath with galvanized nails or staples, 6 inches on center vertically and 16 inches on center horizontally.
- Mortar Mixing: Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C482, Type S.
- Laying: Apply to wall with adhesive mortar. Press units firmly into position in the mortar bed, joggle each unit to bore firmly, causing slightly around edges of units. Maximum area of application to be 10 SF at a time. Minimum width of cut unit to be 3 inches.
- Joints: Joints shall be 3/8" inch in width; shall be uniform. Install outside corner return units with varying lengths as required.
- Pointing: Fix adhesive mortar to be applied after 72 hour curing period. Fill joint to create concave joint. Mortar to be applied in plastic, workable condition using grout bag or similar device.
- Cleaning: Clean surfaces in accordance with manufacturer's recommendations. Use non-metallic tools in cleaning operations.
- Mock-Up: Provide 4 foot x 4 foot masonry wall mock-up with corner units included for Owner approval before proceeding with building installation.

**DIVISION 5 METALS**

**SECTION 05120 - STRUCTURAL STEEL**

- Code and Standards; AISC "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings" including "Commentary"; AWS "Structural Welding Code", comply with applicable provisions except as otherwise indicated.
- Shop Drawings: Show complete details and scheduled (if required) for fabrication, assembly and erection. Furnish anchor bolts required for installation in other work; furnish templates for bolt installation.
- Steel Plates, Shapes, Bars: ASTM A36.
- Cold-Formed Steel Tubing: ASTM A500, Grade B.
- Steel Pipes: ASTM A53, Type E or S, Grade B, Schedule 40 unless otherwise noted.
- Fasteners: High-strength bolts and nuts ASTM A325 or A490; unfinished bolts and nuts, ASTM A307, Grade A; rivets, ASTM A502, Grade 1.
- Shop Paint: FS TT-P-86, Type II; or SSPC-Paint 14.
- Fabrication: Comply with AISC "Specifications" and final shop drawings. Mark and match-mark units for field assembly.
- Connections: As shown on final shop drawings, Use high-strength bolts for field connections, except as otherwise indicated.
  - Comply with AWS Code for procedures, appearance and quality of welds.
- Provisions for Other Work, Fabricate structural steel members to provide holes for securing either work or for passage of other work through steel framing as indicated.
- Shop Painting: Paint structural steel work, except members or portions of members embedded in concrete or mortar, and contact at areas to be welded or riveted. Clean steel free of loose mill scale, rust, oil, and grease. Apply prime paint to provide a minimum dry film thickness of 2.0 mils.
- Erection: Comply with ASC Code and Specification, and maintain work in safe and stable condition during erection. Provide temporary bracing and shoring as required; remove when final connections placed.
  - Set base plates on cleaned bearing surfaces, using wedges or other adjustments as required. Solidly pack open spaces with commercial non-shrink grout.
  - Splice members only where shown on final shop drawings.
  - Touch-up prime paint after erection. Clean field welded, bolted connections and abraded areas, and apply same type paint as used in shop.

**SECTION 05500 - METAL FABRICATIONS**

- Work includes miscellaneous shop fabricated ferrous metal items, including but not limited to:
  - Loose steel lintels
  - Miscellaneous framing, supports and trim
  - Roof Ladders
  - Steel deck panels
- Materials
  - Steel Sections: ASTM A36.
  - Steel Tubing: ASTM A500 or ASTM A501.
  - Structural Steel: Type 304 (18-8), ASTM A269; Satin polished finish.
  - Steel Pipe: ASTM A53, Grade B, standard weight (Schedule 40).
  - Malleable Iron Castings; ASTM A47.
  - Bolts, Nuts, and Washers: ASTM A307.
  - Welding Materials: ASW D1.1; type required for materials being welded.
  - Primer SSPC-Paint 2, for shop application and field touch-up.
  - Steel Deck Panels: ASTM A446 with G90 galvanized coating, steel ASTM A611, Grade C, Shop Primed.
- Fabrication:
  - Verify dimensions in field prior to shop fabrication.
  - Fabricate items with joints tightly fitted and secured.
  - Fit and shop assemble in largest practical sections, for delivery to site.
  - Prime paint items schedule to provide a uniform dry film thickness of 2.0 mils.

- Fit rungs in centerline of side rails, plug weld and grind smooth on outer rail faces.
- Support each ladder at top and bottom and at intermediate points, spaced not more than 5'-0" o.c. Use welded or bolted steel brackets, designed for adequate support and anchorage, and to hold ladder clear of the wall surface with a minimum of 7" clearance wall to centerline of rungs. Return rails to wall or structure unless other guards are provided.
- Provide non-slip surface on top of each rung, either by coating the rung with aluminum oxide granules set in epoxy resin adhesive, or by using a type of manufactured rung which is filled with aluminum oxide grout.

**DIVISION 6 - WOOD & PLASTICS**

**SECTION 06100 - ROUGH CARPENTRY**

- Framing Lumber: American Softwood Lumber Standards PS20, S4S, 19% maximum moisture content, with the following minimum working stresses.

Bending (fb) = 1500 psi
Horizontal Shear (fv) = 95 psi
Compression Perpendicular to Grain (fc) = 390 psi
Modulus of Elasticity (E) = 1,500,000

  - Members in contact with concrete, masonry, or roof shall be preservative treated, AWPB LP-2.
  - Fire retardant treated lumber: AWPFA C20.
- Plywood: PS1, factory marked with appropriate APA trademark. Wafer or particle board is not acceptable. Protect all plywood from moisture by use of all required waterproof covering until the plywood has in turn been covered with the next succeeding component of finish.
  - Roof sheathing: APA rated sheathing, 40/20, size as noted on Structural drawings, Exposure 1.
  - Wall sheathing: APA rated sheathing, 32/16, size as noted on Structural drawings, Exposure 1.
  - Interior wall blocking: APA B-D rated utility panel, 5/8" nominal, interior, Group 2.
- Building wrap:
  - At EIFS or Stucco: Tyvek "Stucco Wrap," by DuPont Company, Wilmington, Delaware.
  - At all other locations: Tyvek "Commercial Wrap," by DuPont Company, Wilmington, Delaware.

**ARCHITECT:**

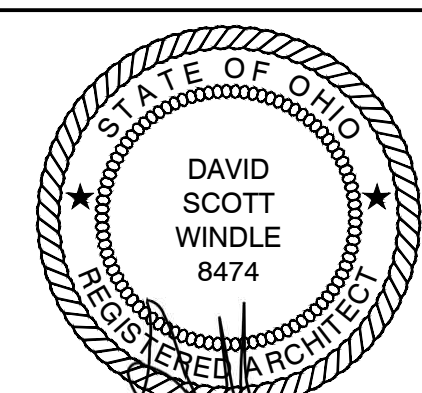
**DAVID SCOTT WINDLE, AIA**

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**CORPORATE:**

**DICKEY'S BARBECUE RESTAURANT, INC.**

4514 COLE AVENUE, SUITE 1100  
DALLAS, TEXAS 75205  
972.248.9899

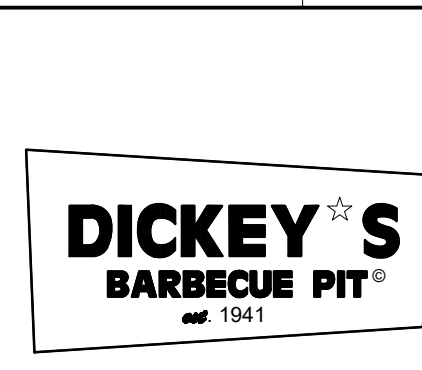


DAVID SCOTT WINDLE  
LICENSE #8474  
EXPIRATION: 12/31/2023

07/13/22

**DICKEY'S BBQ PIT**  
**CASCADES OF BRIMFIELD**  
3975 CASCADES BLVD., SPACE 233A  
KENT, OH 44240

CLIENT: DANIEL UNSWORTH  
3717 WOODS TRAIL  
KENT, OH 44240



OH-2193	
DATE	DESCRIPTION
07/08/22	CORPORATE REVIEW
07/13/22	PERMIT ISSUE

Δ	DATE	DESCRIPTION

**SHEET TITLE:**

**SPECIFICATION**

SHEET NUMBER:

DBQ22008

4. Nails, Spikes, and Staples: Galvanized for exterior locations and treated wood; plain finish for other interior locations; size and type to suit application.

5. Bolts, Nuts, Washers, Lags, Pins, and Screws: Medium carbon steel, sized to suit application, galvanized for exterior locations and treated wood, plain finish for other interior locations.

6. Fasteners: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolts or power activated type for anchorage to steel.

7. Erect wood framing, furring, stripping, plywood backing and nailing members true to lines and levels. Do not deviate from true alignment more than 1/4 inch.

8. Comply with NFPA National Design Specification for Wood Construction recommendations for sizes and openings of members, nailing schedule, and for framing openings if sizes, spaces, or opening framing are not indicated.

9. Provide blocking for support of wall mounted cabinetwork, hardware, toilet partitions, urinal screens, toilet accessories, and plumbing fixtures unless other means of support is indicated.

10. Do not splice structural members between supports.  
SECTION 06200 - FINISH CARPENTRY

1. Softwood Lumber: Graded in accordance with the requirements of AWI Quality Standards; maximum moisture content of 6 percent for interior work and 10 percent for exterior work.

2. Softwood Plywood: Graded in accordance with AWI Quality Standards; exterior material of Birch Veneer, paint grade veneer, or plastic laminate as indicated.

3. Plastic Laminate: NEMA LD-3; GP-50 for horizontal and vertical surfaces over marine plywood CL-20 for backing and unexposed surfaces.

4. Nails: Size and type to suit application.

5. Bolts, Nuts, Washers, Lags, Pins, and Screws: Size and type to suit application.

6. Interior Wood Trim:  
a. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.  
b. Interior Wood Trim:

1. General Use: #3 Common Grade Ponderosa Pine
- c. Interior Finish Plywood: 3/4 inch APA C-D, White Pine Veneer, Group 1, Exposure 1, Interior Plywood.
- d. Frames: Same as for exterior wood trim.
- e. Shelving: 3/4 inch APA C-D, White Pine Veneer plywood with exposed edges edge banded.
- f. Nails: FS FF\_N\_103c and FF\_N\_ 105a.
- i. Screws: FS FF\_S\_11 lb.
- f. Lag Screws and Bolts: FS FF\_B\_561, type and grade best suited for purpose used.
- g. Toggle Bolts: FS FF\_B\_568b.

7. Exterior Wood Trim:  
a. Solid wood: For opaque or satin finish, #3 Common Grade Ponderosa Pine, redwood, or red cedar, location as indicated on plan.  
b. Plywood: Smooth finish cedar plywood.  
c. Exterior Wood Trim: Contractor's option: Redwood S4S #1, Cedar S4S #1.

8. Fabricate finish carpentry and cabinetwork items in accordance with AWI Quality Standards 'Custom Grade', and Section 400 of the AWI Guide. Shop fabricate items where possible.

9. Apply plastic laminate finish in full-uninterrupted sheets consistent with manufactured sizes. Corners and joints to be hairline.

10. Cap exposed plastic laminate edges with material of same finish and pattern.

11. Use exposed fastening devices or nails only when unavoidable.

12. Sand work smooth and set exposed nails and screws. Eliminate hammer marks and other defects. Apply wood filler in exposed nail and screw indentations and leave ready to receive site applied finishes.

13. Set and secure finish carpentry and cabinetwork items in place, rigid, plumb, and square.

14. Install and adjust cabinet hardware to correct operation.

15. Finish woodwork shall be set straight, plumb or level, closely fitted and rigidly fastened. Nail heads of exposed work shall be set for putty and other fasteners shall be concealed.

16. Joints shall be tight and formed to conceal shrinkage. All trim shall be mitered; no butt joints permitted interior corners shall be coped.

17. Install doors plumb, true and fitted properly. Leave in perfect working order. Warped doors will be rejected and shall be replaced. Neatly mortise, drill, and anchor all hardware.

18. Conceal fasteners wherever possible. Where not possible, locate them in an inconspicuous place. Where nails or screw attachment occurs in woodwork face, countersink, putty and sand smooth.

SECTION 06255 - FIBERGLASS REINFORCED PANELS

1. FRP panel: 48" wide, 3/32" thickness, "white" unless noted otherwise; approved manufacturers:

- a. Kemfile
- b. Marfile

2. FRP Accessories: All moldings, trim, adhesive and other accessories shall be as manufactured and recommended by the same manufacturer as panels.

3. Sealant

a. One part Silicone Rubber, ASTM C920 and FS TT-S-001543A, FDA approved, or as recommended by FRP manufacturer.

b. Color: Clear to translucent

4. Install panels over water resistant drywall in strict accordance with manufacturers recommendations, using non-flammable adhesive (100% coverage).

a. Drywall must be installed (and all joints taped) floor to ceiling to provide a good bondable surface to accept installation of FRP panels.

5. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, or too small to fabricate, work with minimum of joints or optimum jointing arrangements, or which are of defective manufacture with respect to surfaces, sizes, or patterns.

6. Scribe and cut work to fit adjoining work.

a. Caulk all joints and all moldings with silicone sealant.

b. Panels to be applied to the wall with the 48" dimension horizontal, and in lengths to extend from base to ceiling with no intermediate horizontal joints.

c. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07210 - BUILDING INSULATION

1. Batt Insulation: Pre-formed glass fiber batt blankets with foil face membrane covering; per ASTM C665, Type III; densities of not less than 0.5 lb. per cu. ft. for glass fiber units, K-value of 0.27; flame spread of 50 or less, ASTM E84 (Class A), 6" (R-19) at walls and 10" (R-30) at roof, unless otherwise noted.

- a. Certainteed Corp.
- b. Schuller International
- c. Owens-Corning Fiberglass Corp.
- d. United States Gypsum Co.
- e. Knauf Fiberglass

2. Perimeter Insulation: Rigid, cellular thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C578 for type indicated; with 5-year aged R-values of 5.4 and 5 at 40 and 75 deg. F (4.4 and 23.9 deg. C,) respectively, 1" thickness unless otherwise noted.

- a. Dow Chemical Co., - Styrofoam SM
- b. Owens-Corning - Foamular 250
- c. Diversifoam Products - Certifoam CE
- d. Amoco Foam Products - Amiofoam CM

3. Sound attenuation insulation: USG "SAFB", 2.5 pnd./cu. ft. density, 3-1/2 inches thick, no substitution.

4. Installation accessories and adhesives shall be as recommended by insulation manufacturer for type of application and condition of substrate.

5. Install batt insulation in accordance with manufacturer's instructions.

a. Place batt insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions and tight to items passing through partitions.

b. Trim insulation neatly to fit spaces. Fill gaps or voids with insulation.

c. Install insulation with factory applied membrane facing warm side of building spaces.

6. Secure rigid insulation to substrate surfaces. Stagger joints 6" where multi-layered. Cut and shape to sub state conditions.

7. Provide a complete thermal envelope around the entire building whether shown on drawings or not.

SECTION 07411 - CORRUGATED METAL PANELS

1. Section Includes:  
A.Prefomed metal panels  
B.Fasteners  
C.Submittals

2. Reference Publications:  
A.ASTM A792-83-A2 S0: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized by the hot dip process) general requirements (galvalume).  
B.SMACNA: "Architctural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.

3. Submittals:  
A.Submit Shop Drawings per SUBMITTALS Section prior to fabrication, for Owner's acceptance. Show gauges, profiles, fastener types and locations, and flashing details.  
B.Submit samples of panel proposed with color samples on actual material, for Owner's acceptance and color selection.

4. Coordination: Contractor shall be responsible for dimensions, detailing, fabrication, fitting, and alignment of work of this section.

5. Guarantee:  
A. The work performed under this Section of the Specifications shall be guaranteed in writing for a period of two years from the date of Substantial Completion against defects in materials and workmanship. During the guarantee period, the contractor and subcontractor jointly agree that within 24 hours of receipt of notice from the Owner defects, within the meaning of the guarantee, will be immediately repaired and within 10 working days after the receipt of notice from the Owner, the defective product will be restored to the standard of the original Specifications without cost to the Owner, including all labor, materials and other costs incidental to the Work.

6. Manufacturer:  
A. The Drawings were prepared and portions of this specification written on the basis of using the products of various manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under conditions of the Specifications.

7. Sheetmetal Panels:  
A. Reynolds Metals Company, Richmond, Virginia; 2.50 x 1/2 inch corrugated panels, Grade A, Galvalume Finish.

8. Fasteners shall be concealed, corrosion resistant, type and size required by manufacturer's specifications. Stainless steel fastening shall be used for connecting dissimilar metals.

9. Handling: Perform in a manner to prevent bending, warping, twist, or other damage. Do not use damaged or bent materials.

10. Storage: Store units on raised support and protect from weather.

11. Workmanship: Use only skilled and experienced personnel. Workmanship shall be equal to the best practice of modern metal roofing installation.

12. Installation:  
A.General Requirements:  
1.Corrugated Sheets: Provide the finished dimensions, seam to seam. Furnish continuous sheets. Single pieces less than eight (8) feet long may be used to connect to shop fabricated inside and outside corners.

2.installation: Install panels without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction. Installation shall be in strict accordance with manufacturer's written instructions and approved shop drawings.

3.Joints: Lap panels 6 inches minimum (2 corrugations) with double beaded tape sealer and appropriate fasteners.

4.Dissimilar Materials Contract: Where sheetmetal is shown contracting concrete, masonry materials, steel, other dissimilar metal, or is contacting wood, keep sheetmetal from direct contact with the dissimilar materials by a coat of bituminous paint applied to a thickness of 12 to 14 mils.

13. Cleaning:  
A.Clean work of other trades damaged by and/or marred during the installation of sheetmetal work. Sheetmetal surfaces shall be cleaned with cleaners recommended by manufacturers of sheetmetal. Installed sheetmetal surfaces must be clean and uniform in appearance.

SECTION 07512 - ROOFING SYSTEM REPAIR

1. BASIC REQUIREMENTS

A. Repair existing roofing system as set forth in this Section to allow for proper penetrations of the membrane by other trades.

B. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

C. Use only materials and installation crews approved by the warranter of the existing roofing system. All materials shall be as recommended for the conditions by a single manufacturer as suitable for that use.

D. Manufacturer of materials shall be approved by the warranter of the existing roofing system. Review warranty requirements with Landlord prior to performing work.

E. Use only applicators that are approved by the warranter of the existing roofing system to perform work on that particular roofing system.

F. Sub-Contractor shall thoroughly inspect roof with a manufacturer's representative to determine if any other repairs or refurbishments are required to insure a watertight building.

2. INSTALLATION

A.Make any repairs as required from inspection of roof.

B.Re-slope, insulate and re-roof at areas shown to match existing.

C.Install curb flashing as required for equipment furnished by Others, Mechanical and Electrical work.

SECTION 07620 - FLASHING AND SHEET METAL

1. Zinc-Coated Steel: Commercial quality with 0.20 percent copper, ASTM A526, except ASTM A527 for lock-forming, G90 hot-dip galvanized, mill phosphatized for painting.

2. Gauges: Gauges are based on galvanized sheet metal. Where other material is used, use equivalent weights in tables in Sheet Metal Manual. Based upon galvanized sheet metal, the following are minimum weights for work specified herein:

Item	Gauge
Hook Strips	22
Joint Covers	22
Cap Flashing	22
Special Flashing	22
Pitch Pans	24
Window Sill Flashing	22
Scuppers	24

3. Solder: For use with steel, provide 50-50 tin/lead solder, ASTM B52 with rosin flux.

4. Fasteners: Same metal as flashing/sheet metal or other noncorrosive metal as recommended by sheet manufacturer. Match finish of exposed heads with material being fastened.

5. Bituminous Coating: SSPC-Paint 12, solvent type bituminous mastic, nominally free of sulfur, compounded for 15-mil. dry film thickness per coat.

6. Roofing Cement: ASTM D4586, asphaltic.

7. General Metal Fabrication: Shop-fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA 'Architctural Sheet Metal Manual' and other recognized industry practices. Fabricate for waterproof and weather resistant performance, with expansion provisions for running work, sufficient to permanently prevent leakage, damage, or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations for forming material. Form exposed sheet metal work without excessive oil-canning, buckling, and tool marks, true to line and levels indicated, with exposed edges folded back to form fems.

a. Fabricate non-moving seams in sheet metal with flat-lock seams. For metal other than aluminum, trim sides to be seamed, form seams and solder. Form aluminum seams with epoxy seam sealer; rivet joints for additional strength where required.

b. Where tapped or bayonet-type expansion provisions in work cannot be used, or would not be sufficiently water-weatherproof, form expansion joints of inter-meshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

c. Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elastomeric sealant, in compliance with SMACNA standards.

8. Comply with installation instructions and recommendations of SMACNA 'Architctural Sheet Metal Manual.' Anchor units of work securely in place, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams which will be permanently watertight and weatherproof.

9. Clean exposed metal surface, removing substances which might cause corrosion of metal or deterioration of finishes.

10. Elastomeric Flashing: Non-reinforced, homogenous, extruded elastomeric sheet flashing .02 inch thick; one of the following:  
a. Nervastral Seal-Pruf HD with cold application mastic by Rubber & Plastic Compound Co., Inc.  
b. Wascoflex with Wascoflex mastic by Wasco Products, Inc.  
c. Nu-Flex with Nu-Flex mastic by Sandell Manufacturing Co.,Inc.

SECTION 07920 - SEALANTS AND CAULKING

1. Sealant Type 1: One component, acrylic latex, for interior non-moving joints.

a. Sonneborn: "Sonolac" or equal.

2. Sealant Type 2: One component urethane, gun-grade, non-sag, for interior or exterior concealed moving joints, thresholds end architectural steel metal.

a. Sonneborn "NP1" or equal.

3. Sealant Type 3: Multi-component urethane, gun-grade non-sag, for interior or exterior exposed moving joints (other than pavements), door and window frames, and other weather tight locations.

a. Sonneborn "NP2" or equal.

4. Sealant Type 4: One component, urethane, gun-grades or pourable, self-leveling for interior or exterior horizontal joints.

a. Sonneborn "Sonolastic SL1" or equal.

5. Primer: Non-staining type, recommended by sealant manufacturer to suit application. Unpainted, porous surfaces shall be primed.

6. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint filling materials.

7. Joint Filler: ASTM D1056, round, closed cell polyethylene foam rod, oversized 30 to 50 percent. Polystyrene is unacceptable.

8. Bond Breaker Tape: Pressure sensitive polyethylene tape recommended by sealant manufacturer to suit application.

9. Clean, prepare and size joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant. Metal surfaces shall be free of corrosion.

10. Install joint filler rod to proper depth by rolling material into joint without lengthwise stretching or twisting. Do not puncture or prime filler rod.

11. Sealant applications shall be performed in strict accordance with manufacturer's written specifications by tradesmen skilled in the work. Use masking tape to protect adjacent surfaces as necessary.

12. All sealing shall be done with neat, smooth tooled beads, free of air pockets, foreign embedded matter, ridges and sags, in firm full contact with interfaces.

13. Work adjacent to joints shall be cleaned free of smears of sealant compound as work progresses.

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1. All hollow metal doors and frames shall be furnished by the Contractor. Refer to Door Schedule on drawings.

2. Install doors and frames in accordance with SDI-100 and SDI-105 except as amended in this section. Comply with NFPA-80 for fire rated assemblies.

3. Install steel doors and frames plumb and square in correct locations indicated on drawings and with a maximum diagonal distortion of 1/16" inch. Ensure that frames are securely and rigidly anchored to adjacent construction.

4. Hang door to fit frames closely without binding. Door to come in full contact with stops when closed. Doors shall swing quietly and easily and not strike floors at any point of swing. Doors not equipped with closers shall remain stationary in any intermediate position in which they are left.

5. Immediately after installation touch up surface coating damage with primer paint identical to that used for shop coat. Leave in clean condition, ready for finish paint specified in Section 0900. Install rubber door silencers after frames are given finish coats of paints.

6. Types

a. Interior: Heavy-duty door, SDI Grade II, Model 4, seamless-composite construction, 18 gauge face sheets.

b. Exterior: Extra heavy duty door, SDI Grade III, Model 4, seamless-composite construction 16 gauge face sheets.

c. All exterior hollow metal doors shall be top sealed weather tight for exterior use.

d. Door Louvers: Provide sight proof, stationary louvers for Steel Doors where indicated, constructed of inverted V-shaped or Y shaped blades, formed of 24 ga. Cold-rolled steel, set into min. 20 ga. Steel frame. Exterior door louvers to include wire mesh insect screen.

SECTION 08210 - FLUSH WOOD DOORS

1. Furnish written warranties for all doors specified as part of the work of this section for life of original installation.

2. Door Materials:  
a. General: Furnish doors, which meet or exceed NWMA Industry Standard I.S. 1\_78 Series and AWI Section 1300-G-3 for Type PC or SLC-5.

b. Core: 1-3/4 inch thick, staved, low-density, bonded wood.

c. Fire Ratings: Doors noted to have specific hourly label shall be of Underwriter's Laboratories, Inc., labeled construction and shall bear the U.L. label.

d. Face Veneer: Refer to Door Schedule on drawings for specific door's face veneer.

e. Crossband: Hardwood veneer.

f. Side Edges: Hardwood.

g. Top and Bottom Edges: Hardwood or softwood.

h. Adhesives:  
1) Core Assembly: Type II (water-resistant).  
2) Face Assembly: Type I (waterproof).

3. Fabricate to size and design indicated on the drawings, prefit for the openings and properly bevel. Prefit clearances shall be 1/8" at the top and both hinge and lock edge of door, with 1/2" clearance at the bottom. Provide flush edgings for wood doors receiving panic devices.

4. Hardware Preparation: Make all cutouts required for hardware at the factory from hardware manufacturer's templates and physical samples furnished by the contractor. Comply with the tolerance requirements of NWMA for prefitting.

5. Installation is specified in FINISH CARPENTRY. Hardware is specified in FINISH HARDWARE.

a. Clearances:  
1) Allow maximum of 3/16" at jamb and head.  
2) Allow maximum of 3/16" over threshold or saddle.  
3) Allow maximum of 1/2" over decorative floor coverings.

b. Fire Rated Doors: Install in accordance with NFPA recommendations. Maximum clearances:  
1) 1/8" between door and frame.  
2) 3/8" between door bottoms and decorative floor finish.  
3) 1/8" between doors for pairs of doors.

SECTION 08216 - STILE AND RAIL GLAZED WOOD DOORS

1.Guarantee: Contractor shall guarantee doors for period of two years (from date of acceptance of project by Owner) against defects in materials and workmanship. Replace defective doors without additional cost to Owner, including charges for removal, installation, glazing and finishing.

2.Interior Doors: Products of "Lone Star Plywood and Doors", Whitney, Texas, Douglas Fir, style 1510, size shown on drawings, factory glazed with clear tempered safety glass.

3.Install all doors in accordance to manufacturer's instructions. Conform to AWI, ANSI/AWMA requirements for fit tolerances.

a. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner. Hang doors in frames not more than 3/32 inch at each side and head; clearance at bottom shall be 1/4 inch or as required for thresholds. Adjust for smooth and balanced door movement. Door to come into full contact with stops when closed. Door shall swing quietly and easily and not strike floor at any point of swing.

SECTION 08306 - ACCESS PANELS

1. Manufacturer

a. The Drawings were prepared and this Specification written on the basis of using the products of J. L. Industries, Bloomington, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2. Access Panels

a. Model 'FD', flush mounted access panel, 24 x 24, UL 1-1/2 hour 'B' label, completely assembled as follows:  
1. Material:  
a. Door: 20 gage steel  
b. Frame: 16 gage steel

2. Hinges:  
a. Hinges: Continuous hinges open to 175 with spring closure.  
b. Locks: recessed turn ring with interior latch release device.

3. Anchors: Manufacturer's standard for use intended.

4. Finish: Phosphate dipped steel with factory prime coat.

3. Installation

a. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

SECTION 08410 - ALUMINUM ENTRANCES AND STOREFRONTS

1. Engineering Design:

a. Structural Properties: Fabricate and install work of this Section to withstand wind loads required by governing laws, ordinances, regulations and codes and with a maximum deflection of 1/175.

b. Thermal Movement: Fabricate and install systems to provide for expansion and/or contraction of component materials as will be caused by temperature range of 150 degrees F without causing harmful buckling, opening of joints, undue stresses on fasteners, or other detrimental effects.

c. Water Leakage: Fabricate and install systems to deny water leakage; defined as appearance of water, other than condensation, on room side face of any part of systems.

d. Submit shop drawings of system proposed. Base on details shown on Drawings, and develop to serve as installation Drawings. Architect's acceptance is required prior to start of fabrication.

3. The Drawings were prepared and this Specification written on the basis of using the products of United States Aluminum, Waxahachie, TX. (972) 937-9651.

4. Storefront Framing:

a. "Series 451 Storefront System" for 1" insulating glazing system, size 2" x 4-1/2". "Center Glaze System", reinforced if required by engineering design.

b. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.

c.Finish: Baked Enamel Finish; Color "redwood".

5. Doors and Hardware:

a. Series 400 Medium-stile door, offset hung, to match drawings, 1/2 inch thick tempered glass.

b.F

12. Fasteners:
- a.Fasteners: Provide all fasteners required for secure installation.
  - b.Select fasteners appropriate to substrate and material being fastened.
  - c.Use Phillips flathed screws unless otherwise indicated.
  - d.Use fasteners impervious to corrosion outdoors and on exterior doors.
  - e.Exposed screws: Match hardware finish.
  - f.Do not use through-bolts where bolt head or nut on opposite face would be exposed in finish work.
    - 1) Where bolt head or nut is exposed in finishing work, provide the same finish as hardware on that side of door.
13. Finishes: All hardware to have 626, Satin Chromium Plated Finish, unless indicated otherwise.
14. Package each set separately, complete with trim, screws, bolts, nuts, washers, etc.; each package numbered with project name, number and corresponding hardware set number to correspond to door for which intended as listed on door schedule on drawings.
15. Install hardware in accord with manufacturer’s instructions and requirements of ANSI/NFPA 80 and DHI. Use templates provided by hardware item manufacturer. Conform to ANSI A1117.1 and ADA for positioning requirements for the handicapped.
16. Unless required otherwise by applicable codes or shown otherwise on the drawings:

- a.Top butts: 5 inches; top of butt from head of frame.
- b. Bottom butts: 1 inch; finish floor to bottom of butt.
- c. Middle butts: 3”-2”; centerline from finish floor.
- d. Knobs: 3”-2”; centerline from finish floor.
- e. Pulls: 3”-6”; centerline from finish floor.
- f. Pushes: 4”-2”; centerline from finish floor.
- g. Locks: 3”-2”; centerline from finish floor.

- SECTION 08800 - GLAZING**
1. Standards: Contractor determine and be responsible for actual systems(s) and materials to be used. FGJA “Glazing Manual” governs.
  2. Manufacturer: Pecora Corporation, Harveyville, PA.
  3. The following materials establish minimum quality standards. It is not intended to dictate or define systems to be used.
    - a. Glazing Compounds: “662-TBC” one part architectural silicone sealant.
    - b. Glazing Tapes: “Extru\_Seal” tapes, pre\_shrimmed, tapered, string, etc.
    - c. Primer: As recommended by compound and/or tape manufacturer for use intended.
    - d. Elastomeric Glazing Beads, Seals, Wedges, Gaskets, Etc.: Framing system manufacturer’s standard vinyl or neoprene.
    - e. Setting Blocks and Spacer Shims: Type and size recommended by FGJA for use intended.
  4. Installation (Glazing)
    - a. Install units in accord with approved data and FGJA “Glazing Manual” recommendations, including but not limited to:
      1. Handling of glass.
      2. Application of compounds, tapes, etc.
      3. Installation of setting blocks and spacer shims.
      4. Final sealing.

- SECTION 08810 - GLASS**
1. Intent (Safety of Persons): Glazing subcontractor is responsible to comply with safety laws, ordinances and regulations, which control type of glass related to safety of persons. The drawings and specifications attempt to comply with such laws, etc., but in case of failure to comply, most restrictive requirement shall govern work of this section.
  2. Glass sizes shown are approximate. Determine sizes and proper edge clearances by measuring actual opening to receive glass. Labels shall not be removed until final acceptance.
  3. Glass:
    - a. Float (FG): 1/4 inch clear
    - b. Tempered (TG): 1/4 and 1/2 inch clear, tempered safety glass without visible clamp marks or “ripples”.
    - c. Insulating (IGL): 1 inch, Solar Control Low-E, tinted insulating glass units by PPG Industries, Inc. composed of:
      - Outside Glazing: 1/4 inch Solarban 60
      - Airspace: 1/2 inch thick
      - Inside Glazing: 1/4 inch PPC Solarban 60 (Low E)
    - d. Mirror Glass: 1/4 inch quality polished plate glass, silver coated, and hermetically sealed with uniform coating of electrolytic copper plating.
    - e. Art Glass: Wizard Art Glass; Contact John Taylor (800) 438–9565. Color and Finish as noted on drawings.
    - f. Adhesive: Pecora ZHR4, Mirror Tac, one part adhesive specifically recommended by adhesive manufacturer for use intended.

- DIVISION 9 - FINISHES**
- SECTION 09260 - GYPSUM BOARD SYSTEMS**
1. Gypsum Panels – Types Required
    - a. Regular Board: ASTM C 36, tapered edges, thickness 5/8”.
    - b. Ceiling board: ASTM C36, tapered edges, thickness 5/8”.
    - c. Fire rated board: ASTM C36, Type X, tapered edges, thickness 5/8”.
    - d. Water resistant board: ASTM C630, tapered edges, thickness 5/8”.
    - e. Tile Backer Board: “Dens–Shield Firestop”, type “X”, 5/8” thick, non-structural, fiberglass–faced, silicone treated gypsum core panel.
  2. Studs, Trim and Accessories
    - a. Metal Studs: Per ASTM C645, galvanized, size and gauges as noted on drawings. Track shall be one size heavier than studs.
    - b. Corner Beads, Control Joints, and Edge Trim: Per ASTM C1047, equal to USG #103 “Dur–A–Bead”, #093 and #200–A respectively, galvanized; Unless otherwise detailed, exposed “J” trim is not acceptable.
  3. Fasteners: Screws, per ASTM 1002; 1–1/4” Type “W” bugle head into wood framing, 1–1/8” Type “S” bugle head into steel framing, and 3/8” Type “S–12” pan (or low profile) head for steel to steel framing connections.
  4. Joint Treatment Materials
    - a. Joint Tape: Paper–reinforcing tape, per ASTM C475.
    - b. Joint Compound: Provide chemical hardening type for bedding and filling, and ready–mixed vinyl type for topping, per ASTM C475.
  5. Textured Finish: Equal to Gold Bond “Unical” one coat veneer plaster sand mix, troweled.
  6. Metal Framing and General Gypsum Board Installation Requirements:
    - a. Metal Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840, Studding shall be 16” o.c. unless otherwise noted. Provide horizontal bracing at 4’–0” o.c. measured vertically. Frame door openings to comply with GA219.
    - b. Install ceiling boards in the direction and manner which will minimize the number of end–butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 4’–0”.
    - c. Install wall/partition boards vertically to avoid end–butt joints wherever possible.
    - d. Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions.
    - e. Space fasteners in gypsum board in accordance with referenced standards and manufacturer’s recommendations, except as otherwise indicated.
      1. Parallel Application: 12” o.c. in field; 8” o.c. along edges.
      2. Perpendicular Application: 12” o.c. in field; 12” o.c. along edges.

- SECTION 09320 - CERAMIC AND QUARRY TILE**
1. Quality Assurance: Perform tile work in accordance with the requirements of ANSI–TCI 137.1, “Recommended Standard Specification for Ceramic Tile”.
  2. Ceramic and Quarry Tile:
    - a. Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary coats, stops, coves, returns, trimmers and other shapes as required for a complete installation.
    - b. Quarry Tile: Quarry tile to be Metro Quarry Tile 6’ x 6’ tile double abrasive (in aisle); smooth (under equipment) with 6’ cove base. All quarry base throughout store to be installed over tile backer board. Color: As noted on Finish Schedule on Drawings. Epoxy grout at dish area.
    - c. Waterproof membrane: Two–component latex rubber latex with continuous fiberglass reinforcement equal to Litcrete 30/335.
  3. Comply with applicable TCA installation methods for substrates indicated. Provide tile expansion joints at all construction and/or joints in the slab.
  4. Mix and proportion pre–mix setting bed and grout materials in accordance with manufacturer’s instructions.
  5. Lay tile in grid pattern, parallel to walls. Lay out tile work and center tile fields in both directions in each space at an each wall area so that no tiles less than 1/2 full tile will occur. Provide uniform joint widths.
  6. All tile shall be brought to true and level planes with joints well filled and shall be secured firmly in place.
  7. Cut and fit tile right to protrusions and/or perpendicular interruptions.
  8. Sound tile after setting. Replace hollow sounding units.
  9. Allow tile to set for a minimum of 48 hours prior to grouting.
  10. Prohibit traffic from floor finish or activities near wall finish for 72 hours after installation. Protect the tile work from damage with Kraft paper or other heavy non–staining covering during the construction period.
  11. Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Acid solutions may be used when permitted by tile and grout manufacturer’s printed instructions.

- SECTION 09510 - ACOUSTICAL CEILINGS**
1. Acoustical Panels:
    - a.Type 1 – Dining Rooms and Waiting Areas
      1. Manufacturer: USG Interiors
      2. Panels: “Eclipse Clima–Plus” Panel #67775
      3. Size: 24”x 24” x 3/4”
      4. Edges: Sloped Regular edge
      5. Suspension System: Donn DX
        - a. Exposed, direct hung, per ASTM C635.
        - b. Concealed grid member shall be electro–galvanized.
      6. Finish: Ceiling tile and Suspension Grid ; White.
    - b. Type 2 – Kitchen Areas
      1. Manufacturer: USG Interiors
      2. Panels: #3270 Vinyl Faced Gypsum Panels, Class A fire rated
      3. Size: 24”x 28” x 1/2”
      4. Edges: Square cut
      5. Suspension System: USG’s “Donn AX” aluminum grid (white) with stainless steel locking tee ends.
      - a. Exposed, direct hung, per ASTM C635.
      - b. Concealed grid member shall be electro–galvanized.
      6. Finish: Ceiling tile and Suspension Grid manufacturers standard white.
  2. Structural Classification: Intermediate duty.
  3. Provide fire rated grid where indicated or scheduled, or required by local codes.

2. Miscellaneous Materials:
  - a. Hanger Wire: Galvanized carbon steel wire, ASTM A641, soft temper, prestretched Class 1 coating, sized so that stress at 3–times hanger design load (ASTM C635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gauge.
3. Installation:
  - a. Install suspension systems to comply with ASTM C636. Locate hangers not less than 6’ from each end and spaced 4’–0” along each carrying channel or direct–hung runner, unless otherwise indicated, leveling to tolerance of 1/8” in 12’–0”. In kitchen areas, hangers shall be spaced 3’–0” along each carrying channel or direct–hung runner to obtain load capacity of 16 lbs/LF. Provide hanger wire at each corner of each recessed fluorescent fixture.
  - b. Secure wire hangers by looping and wire–lying, either directly to structures or to inserts, eye screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.
  - c. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum, which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset recruiting horizontal force by bracing, counter–splying or other equally effective means.
  - d. Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.
  - e. Clean exposed surface of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer’s instructions for cleaning and touch–up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

- SECTION 09660 - RESILIENT TILE FLOORING (VCT)**
1. Furnish labor, materials, services, equipment and appliances required for resilient tile flooring work indicated on the Drawings and specified herein.
  2. The Drawings were prepared and this Specification written on the basis of using the products of specific manufacturer’s. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
  3. Floor Tile: Refer to drawings for type and color.
  4. Adhesive: As recommended by flooring manufacturer.

5. Conditions:
  - A. Temperature: Maintain minimum temperature of 70 F for 48 hours before, during and for 48 hours after installation of flooring. Do not install flooring when temperature is below 70 F.
  - B. Moisture Tests: After cleaning subfloors, spread small patches of adhesive in several locations and allow to set. If adhesive can be peeled easily from subfloor, repeat test at intervals until adhesive adheres tightly. Do not install flooring until adhesive adheres tightly to subfloor.
  - C. Surface to Receive Flooring: Sweep surfaces and clean free of paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects in concrete subfloors. Grind ridges, trowel marks, and other surface projections smooth.
6. Installation:
  - A. Defer installation until work that might cause damage to flooring has been completed. Apply primer to evenly cover entire surface to receive flooring. Apply adhesive after primer has thoroughly dried. Application method and time allowed for setting in accord with tile manufacturer’s instructions. Lay tile starting from axes that will produce equal width tile against opposite walls; not less than half tile width. Each tile entirely bonded to subfloor; in tight contact with surrounding tiles; joints aligned with room axes. Lay tile under fixtures. Change direction of graining in adjacent tiles.
7. Cleaning:
  - A. Upon completion, clean flooring; remove spots of adhesive, dirt and other contamination using cleanser recommended by flooring manufacturer.

- SECTION 09679 - RESILIENT BASE (RUBBER)**
1. Furnish labor, materials, services, equipment and appliances required for resilient base work indicated on the Drawings and specified herein.
  2. Submit two 4–inch long samples of each type of base to the Architect for acceptance.
  3. Manufacturer: The Drawings were prepared and this Specification written on the basis of using the products of Johnstone, Chaquin Falls, Ohio, (800) 899–8916. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
  4. Base: Refer to drawings for type and color.
  5. Adhesive: As recommended by base manufacturer.
  6. Conditions:
    - A. Temperature: Maintain minimum temperature of 70 F for 48 hours before, during and for 48 hours after. Do not install base when temperature is below 70 F.
    - B. Surface of Wall: Clean surfaces to receive base free from moisture, paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects.
  7. Installation:
    - A. General: Defer installation until work that might cause damage to base has been completed. Install “straight” base prior to installation of carpet. Install “cove” base after installation of adjacent floor surface.
    - B. Application:
      1. Adhesive: Apply in accord with base manufacturer’s instructions; cover at least 75 percent of back of base.
      2. Base and Trim Pieces: Use molded inside and outside corners and stops where base terminates, as at doors. Install with tight joints with top and bottom edges in firm contact with walls and floors.
      3. Fitting: Tight-fit each joint, tops of adjacent pieces matched; each piece in contact with floor piece and corner or trim piece.
  8. Cleaning: Upon completion, clean base; remove spots of adhesive, dirt and other contamination with soft cloths using cleanser recommended by base manufacturer.

- SECTION 09770 - Prefinished Wall Panels**
1. Manufacturer: Marlite, 202 Harger Street, Dover, Ohio 44622.
  2. Panels:
    - a. Wall Panels: Product, Color and Patterns as noted on Drawings.
  3. Accessories:
    - a. All molding and trim shall be pre–finished at the factory to meet site conditions per manufacturer’s standard detailing.
    - b. Adhesive to be C–375 Marlite Construction Adhesive as required, to meet ASTM C557.
    - c. Sealant to be MS251 Marlite Silicon Sealant as required.
  3. Preparation:
    - a. Pre–finished panels must be installed over a smooth, solid, flat sub wall assembly.
    - b. Do not begin installation until building is completely enclosed and interior conditions are being maintained as intended during occupancy; approximately 70 degrees F.
    - c. Cartons should be opened and allowed to acclimate to room conditions for at least 48 hours prior to installation.

- SECTION 09900 - PAINTING**
1. Provide labor, materials, equipment and related items required to complete the exterior and interior items and surfaces throughout the project including filling, sealing, priming, and finishing.
  2. Approval of colors must be obtained from the Owner before proceeding with work of this section. Unless otherwise specified, all undercoats shall be tinted slightly to approximate the finished colors and each subsequent undercoat shall be a different tone or value than the previous undercoat.
  3. Mechanical and Electrical work to be painted includes the following (but not limited to):
    - a. Exposed piping and/or pipe insulation, inside and outside building.
    - b. Mechanical equipment and supports, including exposed ductwork, registers and grills.
    - c. Exposed conduit, boxes, and panel fronts.
    - d. Gas meter
    - e. Inside surfaces of all ducts, dampers and louvers as far back as visible from the room in which they open. Finish with two coats of Flat Black Paint.
  4. Ensure surface temperatures and the surrounding air temperature are above 50 degrees F. before applying paint materials.
  5. Provide adequate continuous ventilation and sufficient heating facilities to maintain temperature above 45 degrees F. for 24 hours before, during and 48 hours after application of paint and materials.
  6. Provide minimum 25–foot candles of lighting on surfaces to be painted.
  7. Acceptable Manufacturers
    - a. Sherwin Williams
    - b. ICI Dulux
  8. Performance preparation, filling, sealing, sanding, and cleaning of surfaces scheduled to be painted in accordance with paint manufacturer’s instructions.
  9. Remove hardware and accessories, fittings, and fastenings, electrical plates, lighting fixture and similar items. Reinstall removed items after completion of painting.
  10. Do not paint over dirt, dust, stains, rust, scale, oil, grease, moisture, scuffed surfaces, or other contamination or conditions detrimental to formation of a durable paint film.

11. Backprime woodwork as follows:
  - a. Exterior painted wood: “Latex Exterior Primer”.
12. Apply point in accordance with paint manufacturers instructions and as herein specified.
13. Apply each coat of paint at no less than spreading rate indicated in manufacturer’s instructions.
14. Sand lightly between enamel coats.
15. Completely cover items/surfaces scheduled to be painted, to provide a smooth surface of uniform finish, color, appearance and paint material coverage free from cloudiness, spotting, holidays, laps, brush marks, runs, streaks, sags, ropiness and other surface imperfections.

16. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer’s specification for application which is consistent with types and qualities listed herein. Colors are indicated on drawings.
17. Exterior Surfaces
  - a. Wood Trim (Paint)
    - 1st coat: Sherwin Williams – A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
    - 2nd coat: Sherwin Williams – A100 Exterior Latex Satin, AB2 Series
    - 3rd coat: Sherwin Williams – A100 Exterior Latex Satin, AB2 Series (4 mils wet, 1.4 mils dry per coat)
  - b. Wood “Stained”
    - 1st coat: Refer to finish legend on drawings.
    - 2nd coat: ICI Dulux No. 5035 Ultra–Hide Sanding Sealer
    - 3rd coat: ICI Dulux Paste and Wood Filler
    - 4th coat: ICI Dulux No. 82 Woodmaster Satin Sheen Urethane Varnish
  - c. Ferrous Metals and Exposed Gas Lines
    - 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
    - 2nd coat: Sherwin Williams A100 Exterior Latex Satin, AB2 Series
    - 3rd coat: Sherwin Williams A100 Exterior Latex Satin, AB2 Series (4 mils wet, 1.4 mils dry per coat)

- Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.
- a. Concrete Unit Masonry (at service yard area – un–exposed to public view):
    - 1st coat: Sherwin Williams Heavy Duty Block Filler, B4W46
    - 2nd coat: Sherwin Williams Water Based Catalyzed Epoxy, B70 Series/ B60V25
    - 3rd coat: Sherwin Williams A100 Exterior Latex Satin, AB2 Series (4 mils wet, 1.4 mils dry per coat)
  - f. Prepainted Equipment (Rooftop Equipment, Transformers, Etc.)
    - 1st coat: Sherwin Williams A100 Exterior Latex Satin, AB2 Series
    - 2nd coat: Same as first coat.

- SECTION 11400 - FOOD SERVICE EQUIPMENT (INSTALLATION)**
1. Section includes installation of Owner provided food service equipment. This equipment shall be furnished, assembled, and set in place under separate contract, with final utility connection by General Contractor.
  2. Related Sections
    - a. Mechanical and electrical services and final connections to equipment.
  3. Owner will provide equipment manufacturer’s installation instructions for Contractor’s use.
  4. Owner will provide equipment manufacturer’s operation and maintenance data for Contractor’s use.
  5. Coordinate size of access and route to place of installation.

- a. Owner Provided (By Owner):
  - a. Equipment scheduled on the drawings.
  - b. Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
  - c. Motor starters.
  - d. Walk–in refrigerator/freezer thermostats.
  - e. Stainless steel trim strips, supports and connections, attachment devices, and accessories.
7. Contractor Provided: Refrigerant System Installation
  - a. Refrigerant Lines: Type “L” hard copper tubing.
  - b. Fittings: Wrought copper or brass designed for use with high temperature solder.
  - c. Piping Joints: Made with silver solder (Sil–Fos).
  - d. Piping: Properly suspended from an anchor to the structure with adjustable hangers 6’ o.c. maximum.
  - e. Suction Lines: Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
  - f. Liquid Lines: Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armaflex insulation by Armstrong – 1” thick at medium temp., 1–1/2” thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3–6548 silicone RTV foam.
  - g. Evacuation and Charging: After completion of the pressure test, the system shall be evacuated using an approved auxiliary vacuum pump. Connections for evacuations to be in accordance with manufacturer’s recommendations.

8. Delivery, Handling and Storage
  - a. Delivery: Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.
  - b. Handling: Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cards. Keep utility hook up notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturer’s directions, taking care to make sure fasteners are tight and components are aligned and square.
  - c. Storage: Store equipment clear of floor in manner to prevent warping, twisting, or sagging.

9. Installation
  - a. Install items in accord with manufacturer’s instructions and fabricator’s shop drawings. Install in accord with local governing Health, Building, and Safety, and Fire Protection Codes and Regulations and NEMA, UL, AGA, ASME and NFPA.
  - b. Electrolysis: Insulate to prevent electrolysis between dissimilar metals. Provide sealant to achieve clean joint without crevices.
  - c. Equipment
    1. General: Set in place and position per kitchen equipment plan; ready for utility hook up. After utility hookups are made, level and secure diaphragms to slope toward dishwasher. Completely close and seal gaps, joints and seams between fixtures/equipment and walls, ceilings and floors with stainless steel trim strips and/or clear silicone sealant. Do not use sealant in joints or seams over 3/16 inch wide.
    2. Refrigerant Piping: Install copper tubing and fittings. Cut with pipe cutters and reshape with sizing tool. Expose piping to view as required by American Standard Safety Code for Mechanical Refrigeration. For exposed areas or accessible furred ceiling spaces, use hard copper tubing. Run exposed tubing in such manner as to prevent damage from activities in areas; otherwise run tubing in pipe or conduit.
    - d. Suction Lines: Size to give max pressure drop from evaporator to machine of 2 lb. For high temp system and 1 lb. For freezer system, allowing gas velocities of not less than 750 rpm in horizontal runs and 1500 rpm in vertical risers. Size liquid lines to give max pressure drop of 3 lbs. from receiver to evaporator.
    - e. Tubing Runs: Grade to prevent trapping of oil.
    - f. Tags: Secure suction and liquid lines for each system together, except when run through conduit; 24 inch intervals with black plastic electrical tape.
    - d. Insulation: Insulate refrigerant suction lines outside of refrigerated compartments back to compressors.
  - e. Hangers and Supports: Provide adjustable hangers, anchors or straps required for proper support of piping not run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of small piping. Provide insulated refrigerant piping with approved type sleeves at hanger points.

- a. Hangers and Supports: Provide adjustable hangers, anchors or straps required for proper support of piping not run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of small piping. Provide insulated refrigerant piping with approved type sleeves at hanger points.

3. Walk–in Cooler/Freezer Boxes: Transit level floor screens prior to wall and ceiling panel erection. Seal wall and/or ceiling penetrations for electrical conduits and refrigeration lines, etc., to prevent frost and condensate build–up. Electrical conduits; on exterior of box.
4. Oil Separators: Provide low temperature operations of system, return line connected to top of crankcase above oil level. Provide exposed oil return lines with shut–off valves of pockless stem type.
5. Evaporator Coils: Support by hangers utilizing fish plates on top of walk–in unit a full 4 inches clear from underside of ceiling panels.

- SECTION 10442 - INTERIOR DOOR SIGNS**
1. Design and Fabrication
    - a. All patterns for fabrication, regardless of production technique, method, or process specified, shall be approved by the Owner prior to production in order to ensure conformity to design with regard to letter form and height, wording, spelling, capitalization, punctuation, letter spacing, leading and layout or composition.
  2. The drawings were prepared and this specification written on the basis of using the products of Kroy Sign Systems, Scottsdale, Arizona. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.
  3. General: Regulatory signage series opaque acrylic, matte finish plaques, with front surface hot stamp graphics, in low profile frame. Configuration shown on drawings to conform with Americans with Disabilities Act regulatory requirements.
  4. Provide one sign (unit) for each restroom door opening for public facilities.
  5. Installation shall be started at the time established by the General Contractor. However, no sign work shall be performed in the building before the building is completely enclosed and all painting and work of other trades is finished.
  6. Install signs in accord with approved shop drawings. Install true to line, plumb, level, square, in proper planes with other work and free from objectionable defects. Anchor to adequately resist all normally subjected stresses.

- SECTION 10523 - PORTABLE FIRE EXTINGUISHERS**
1. Section Includes Fire extinguishers and Mounting brackets
  2. Provide new portable fire extinguishers which are UL listed and bear UL “Listing Mark” for type, rating, and classification of extinguisher indicated.
  3. Dining Area Fire Extinguishers:
    - a. Provide where located on drawings, equal to J.L. Industries “Cosmic A” Series Model 5E, Class A, B, and C, cabinet–mounted 5 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen’s Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
  4. Kitchen Area Fire Extinguishers:
    - a. Provide a minimum of two, equal to J.L. Industries “Seturn – Model 15” wall–mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.
    - b. Brackets: Equal to J.L. Industries “Mark Brackets, Model MB810” for Model 15 fire extinguisher.
  5. Anchors: Non–corrosive types as required by wall conditions.
  7. Mount in strict conformance with manufacturer’s instructions; in locations noted on drawings and locations directed by local fire marshal.

- SECTION 10800 - TOILET ACCESSORIES**
1. All toilet accessories are furnished and installed by Contractor. Coordinate rough–in, openings and wood blocking.
  2. Install fixtures, accessories and items in accordance with manufacturer’s instructions, and where affected, at heights or locations for the handicapped as indicated or specified herein.
  3. Install true, plumb and level, securely and rigidly anchored to substrate.
  4. See Construction documents for accessories.
  5. Baby Changing Stations to be furnished and installed by Contractor. This is a non–substitute item to be ordered from:
    1. Koala Kare Products
      - 6982 S. Quentin St.
      - Centennial, CO. 80112
      - Phone: 1–888–733–3456
  6. Product: Horizontal Wall Mount Baby Changing Station: # KB100–00 Cream

- DIVISION 11 - EQUIPMENT**
- SECTION 11400 - FOOD SERVICE EQUIPMENT (INSTALLATION)**
1. Section includes installation of Owner provided food service equipment. This equipment shall be furnished, assembled, and set in place under separate contract, with final utility connection by General Contractor.
  2. Related Sections
    - a. Mechanical and electrical services and final connections to equipment.
  3. Owner will provide equipment manufacturer’s installation instructions for Contractor’s use.
  4. Owner will provide equipment manufacturer’s operation and maintenance data for Contractor’s use.
  5. Coordinate size of access and route to place of installation.

- a. Owner Provided (By Owner):
  - a. Equipment scheduled on the drawings.
  - b. Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
  - c. Motor starters.
  - d. Walk–in refrigerator/freezer thermostats.
  - e. Stainless steel trim strips, supports and connections, attachment devices, and accessories.
7. Contractor Provided: Refrigerant System Installation
  - a. Refrigerant Lines: Type “L” hard copper tubing.
  - b. Fittings: Wrought copper or brass designed for use with high temperature solder.
  - c. Piping Joints: Made with silver solder (Sil–Fos).
  - d. Piping: Properly suspended from an anchor to the structure with adjustable hangers 6’ o.c. maximum.
  - e. Suction Lines: Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
  - f. Liquid Lines: Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armaflex insulation by Armstrong – 1” thick at medium temp., 1–1/2” thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3–6548 silicone RTV foam.
  - g. Evacuation and Charging: After completion of the pressure test, the system shall be evacuated using an approved auxiliary vacuum pump. Connections for evacuations to be in accordance with manufacturer’s recommendations.

8. Delivery, Handling and Storage
  - a. Delivery: Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.
  - b. Handling: Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cards. Keep utility hook up notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturer’s directions, taking care to make sure fasteners are tight and components are aligned and square.
  - c. Storage: Store equipment clear of floor in manner to prevent warping, twisting, or sagging.

- SECTION 11610 - RANGE HOODS**
1. Range Hoods: Provide a minimum of two, equal to J.L. Industries “Seturn – Model 15” wall–mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.
  2. Brackets: Equal to J.L. Industries “Mark Brackets, Model MB810” for Model 15 fire extinguisher.
  3. Anchors: Non–corrosive types as required by wall conditions.
  4. Mount in strict conformance with manufacturer’s instructions; in locations noted on drawings and locations directed by local fire marshal.

- SECTION 12100 - SCHEDULING**
1. Scheduling: Provide a minimum of two, equal to J.L. Industries “Seturn – Model 15” wall–mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.
  2. Brackets: Equal to J.L. Industries “Mark Brackets, Model MB810” for Model 15 fire extinguisher.
  3. Anchors: Non–corrosive types as required by wall conditions.
  4. Mount in strict conformance with manufacturer’s instructions; in locations noted on drawings and locations directed by local fire marshal.

- SECTION 12200 - INTERIORS**
1. Section Includes Fire extinguishers and Mounting brackets
  2. Provide new portable fire extinguishers which are UL listed and bear UL “Listing Mark” for type, rating, and classification of extinguisher indicated.
  3. Dining Area Fire Extinguishers:
    - a. Provide where located on drawings, equal to J.L. Industries “Cosmic A” Series Model 5E, Class A, B, and C, cabinet–mounted 5 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen’s Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
  4. Kitchen Area Fire Extinguishers:
    - a. Provide a minimum of two, equal to J.L. Industries “Seturn – Model 15” wall–mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.
    - b. Brackets: Equal to J.L. Industries “Mark Brackets, Model MB810” for Model 15 fire extinguisher.
  5. Anchors: Non–corrosive types as required by wall conditions.
  7. Mount in strict conformance with manufacturer’s instructions; in locations noted on drawings and locations directed by local fire marshal.

- SECTION 12300 - ACCESSORIES**
1. Section Includes Fire extinguishers and Mounting brackets
  2. Provide new portable fire extinguishers which are UL listed and bear UL “Listing Mark” for type, rating, and classification of extinguisher indicated.
  3. Dining Area Fire Extinguishers:
    - a. Provide where located on drawings, equal to J.L. Industries “Cosmic A” Series Model 5E, Class A, B, and C, cabinet–mounted 5 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen’s Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
  4. Kitchen Area Fire Extinguishers:
    - a. Provide a minimum of two, equal to J.L. Industries “Seturn – Model 15” wall–mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.
    - b. Brackets: Equal to J.L. Industries “Mark Brackets, Model MB810” for Model 15 fire extinguisher.
  5. Anchors: Non–corrosive types as required by wall conditions.
  7. Mount in strict conformance with manufacturer’s instructions; in locations noted on drawings and locations directed by local fire marshal.

- SECTION 12400 - WALLS**
1. Section Includes Fire extinguishers and Mounting brackets
  2. Provide new portable fire extinguishers which are UL listed and bear UL “Listing Mark” for type, rating, and classification of extinguisher indicated.
  3. Dining Area Fire Extinguishers:
    - a. Provide where located on drawings, equal to J.L. Industries “Cosmic A” Series Model 5E, Class A, B, and C, cabinet–mounted 5 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen’s Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
  4. Kitchen Area Fire Extinguishers:
    - a. Provide a minimum of two, equal to J.L. Industries “Seturn – Model 15” wall–mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.
    - b. Brackets: Equal to J.L. Industries “Mark Brackets, Model MB810” for Model 15 fire extinguisher.
  5. Anchors: Non–corrosive types as required by wall conditions.
  7. Mount in strict conformance with manufacturer’s instructions; in locations noted on drawings and locations directed by local fire marshal.

- SECTION 12500 - CEILING**
1. Section Includes Fire extinguishers and Mounting brackets
  2. Provide new portable fire extinguishers which are UL listed and bear UL “Listing Mark” for type, rating,





