Red Door Grill - Lee's Summit Streets of Pryor

Streets of Pryor, Lot 1

RED DOOR
WOODFIRED GRILL

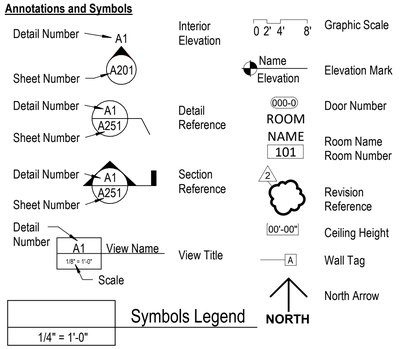
Construction Documents

Drawing Index

Project Information

Owner / Developer:	PVG Properties II LLC 3612 Karnes Blvd. Suite 111 Kansas City, MO 64111
Zoning:	PMIX
Adjoining Tract Use:	Undeveloped commercial tracts zoned PMIX
Project Narrative:	The project consists of a new building for a restaurant, Red Door Woodfired Grill. The restaurant is open to the public from 10 a.m. until 11 p.m.

Annotations and Symbols



Construction Cost Scope Information

The General Contractor shall track construction cost of the following scopes:
- Site Work and Utilities (Site Scope)
- Shell Building (Shell Scope)
- Tenant Improvements (T.I. Scope)

The **Site Scope** shall generally include all work 5' beyond the building's footprint, unless noted otherwise. Site scope work will include but not be limited to site earthwork and grading, site utilities (storm water sewer, sanitary sewer, water main / domestic water / fire line service, electrical service), curb and gutter, asphalt pavement, concrete sidewalks, parking lot lighting, landscaping, and irrigation.

The **Shell Scope** shall generally include work within the building's footprint and within 5' of it's perimeter, unless noted otherwise. Shell scope will include but not be limited to footings and foundations, gravel and low volume change material, the exterior envelope and its framing and structure, thermal insulation, exterior finishes, roofing, exterior doors, windows, and storefront, mezzanine and stair framing and subfloor, plumbing utiilities within 5' of the building perimeter (sanitary, grease, and storm lines, domestic water entries, fire line entries, and hydrants), building mounted exterior lighting and emergency fixtures, and electrical house panels and disconnects. Construction including walls, doors, fixtures, and finishes at Mechanical Room 113 and Liqour Storage 102 (roof access) shall be shell scope.

The **T.I. Scope** shall generally include interior construction and finishes, rooftop mechanical equipment, interior mechanical / electrical / plumbing fixtures and associated distribution, metal guardrails and handrails, south patio and fireplace construction.

The following are scope clarifications.

- Shell Scope 1 — Interior 5" concrete perimeter ribbons and floor types C1, SC1, and PC3, W.W.F. reinforcement, and 15 mil vapor barrier. Grind and seal finishing of type PC3 shall be excluded from shell scopes.
- Shell Scope 2 — Trash enclosure wall, foundation, gate, and paving
- Shell Scope 3 — Grease interceptor and associated grease lines and vents
- Shell Scope 4 — Walk-in cooler yard enclosure wall, foundation, gate, and paving
- T.I. Scope 1 — Interior 5" concrete floor types C2 and PC1, W.W.F. reinforcement, and 15 mil vapor barrier. (4" gravel and 20" low volume change material to be shell scope), finishing of PC3 perimeter ribbon (grind and seal with adjacent PC1 slab), and concrete bar curb type PC4.
- T.I. Scope 2 — South patio, including:
  -patio foundation, structure and roof
  -concrete paving (type P2), steps, and metal handrails
  -fireplace structure, foundation, chimney flues, and gas fire
  -fenced enclosure and gate
  -exterior lighting mounted to the patio/chimney structure
- T.I. Scope 3 — Plumbing fixtures, waste and supply lines, vents, etc. where indicated.
- T.I. Scope 4 — Metal guards and handrails at mezzanine and metal guards and handrails at the mezzanine stairs.
- T.I. Scope 5 — Rooftop mechanical equipment. Rooftop equipment shown on A1/A103 roof plan shown for location/reference. Equipment selections and specifications are provided in the mechanical /electrical documents.

  Refer to structural for framing for mechanical roof and side wall openings. Coordinate opening size and location, Re: architectural Roof Plan and MEP documents.
- T.I. Scope 6 — Interior gyp. board at exterior walls.

General Notes:

The execution of this project and acceptance thereof shall be governed by the criteria stated in AIA Document A201, General Conditions of the Contract for Construction. this AIA document sets out the rights, responsibilities and relationships of the owner, contractor and architect, and shall be incorporated by this reference into the contractual obligation of the parties noted therein.

The following notes are a partial list of requirements/instructions that are to supplement these "general conditions of the contract for construction". Where one is more restrictive, it shall take precedence.

1. The architect appreciates your experience and perspective. If you have questions or observations please bring them to our attention. In a competitive bidding arrangement, we will make public all comments or clarifications so that everyone bidding the work is equally educated. The last thing we want is the bidder with the least information to be awarded the work.
2. Means and methods are the perogative of the contractor; the intent of the documents and the dictated results are not. While we understand there is usually more than one way to skin a cat, just because that's the way you've always done it may not make it right for this project. Get answers to your questions, seek clarification and/or a review of your ideas BEFORE you place a bid. Because we respect you and the others who bid this work, once you enter into a contract, we'll hold your feet to the fire. BID IT AND BUILD IT LIKE IT IS SHOWN OR GET ALTERNATIVES APPROVED IN WRITING BEFORE YOU MAKE A COMMITMENT.
3. There is never perfect weather for the entire duration of a project. The corps of engineers publishes "anticipated" days of inclement weather for specific areas of country. That information will be used to gauge contractor's claims of "unanticipated" weather related increases to construction time and/or construction costs.
4. Make allowances in the construction time and/or costs for these "anticipated" weather related disruptions. This includes but is not limited to protecting the project during inclement weather or making seasonal adjustments to the construction process. Contractors who have not lived in this part of the Midwest for the past few years need not submit a bid.
5. The work shall be performed by the contractor in accordance with applicable building codes, regulations and ordinances.
6. The contractor shall be responsible for applicable fees, permits, inspections, testing and/or licenses unless specifically noted otherwise.
7. Do not scale drawings. Follow the written dimensions.
8. All dimensions are to face of stud, face of concrete, face of masonry, or to column lines unless noted otherwise.
9. All the vertical gypsum board/drywall shall be 5/8" thick unless noted otherwise.
10. Anticipate patching areas where walls are to be added and/or openings are req'd during construction.
11. New materials and construction move (expand and/or shrink). Make allowances for expansion and/or contraction of the new materials or equipment or building components subject to movement, particularly where dissimilar materials meet.
12. Coordinate the work of the different trades. Install the necessary parts, sleeves, recesses and/or openings in work which receives, contacts or connects to other work installed by other trades. The first guy in isn't always right.
13. The drawings are in part based on the sizes/relationships of anticipated furnishings, kitchen, bar, &/or mechanical equipment. This may be different from the items actually provided by the contractor. The sooner shop drawings for proposed items are presented and approved, the less likely something will need to be taken apart.
14. If you have a question or discover conflicting information, please get clarification from the architect. Thank you.
15. Glazing in areas subject to human impact in hazardous locations shall comply with the requirements of section 2406 of the IBC.
16. Unless specifically stated otherwise, install products and materials per manufacturer's instructions.
17. Contractor shall notify owner if hazardous materials including but not limited to mold, asbestos, lead paint, etc. are suspected and/or detected. Hazardous materials abatement shall be the responsibility of the owner where applicable.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/02/2021

Joe Frogge

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2010007156
REGISTERED ARCHITECT
Apr 12, 2021

food service
TriMark Hockenbergs

10550 Barkley, Ste. 201
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Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021
3 Plans Review Comments	05.12.2021

Cover Sheet

A000

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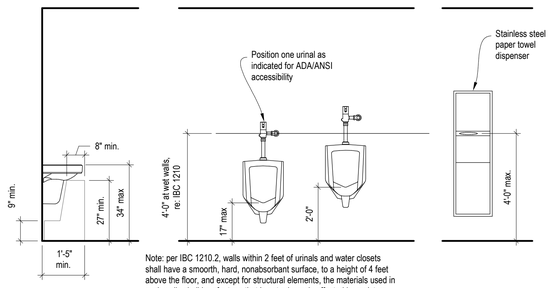
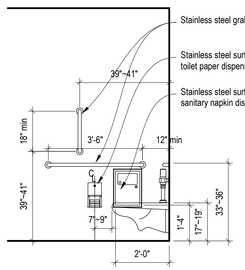
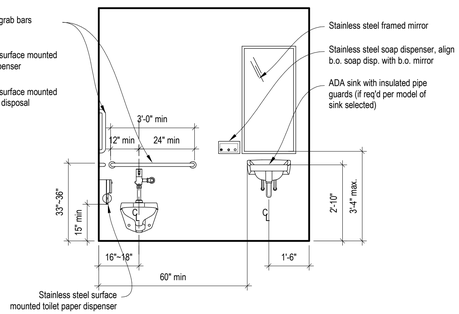
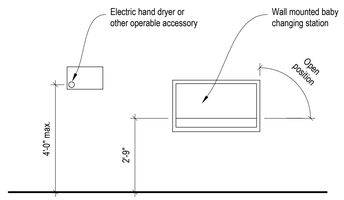
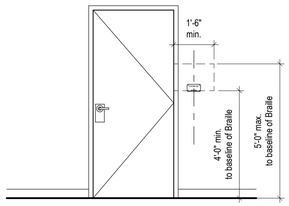


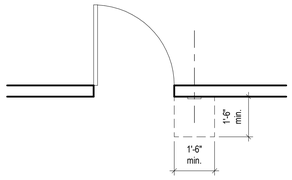
Note: per IBC 1210.2, walls within 2 feet of urinals and water closets shall have a smooth, hard, nonabsorbant surface, to a height of 4 feet above the floor, and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture



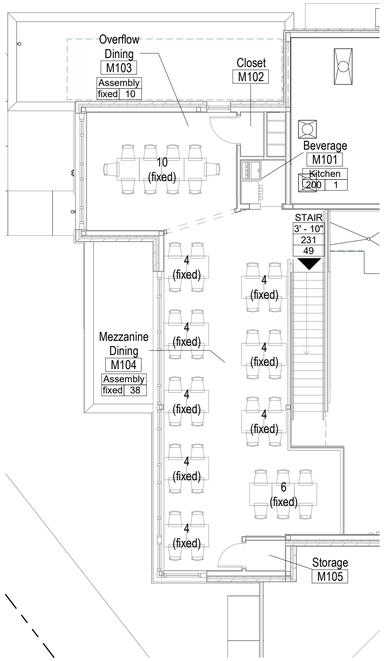




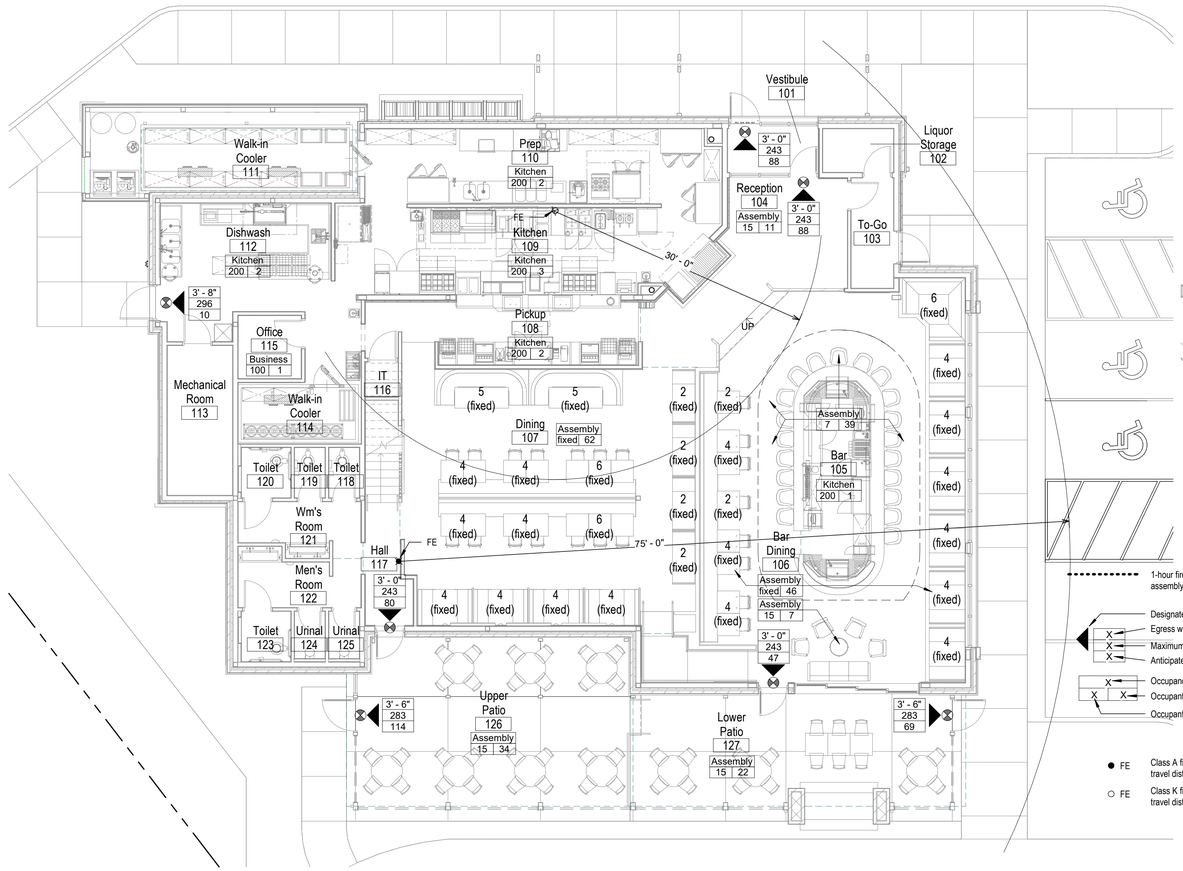




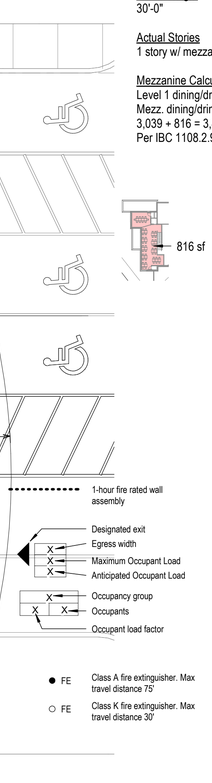
F1
3/8" = 1'-0"
ADA Interior Elevations



A1
1/8" = 1'-0"
Code Plan - Mezzanine



A4
1/8" = 1'-0"
Code Plan - First Floor



Model Building/Design Codes Used:
2018 *International Building Code*
2018 *International Fire Code*
2012*International Energy Conservation Code*
2018 *International Plumbing Code*
2018 *International Fuel Gas Code*
2017 *National Electrical Code*
2018 *International Mechanical Code*

ADA Accessibility
American National Standard; ICC/ANSI A117.1 2009

Proposed Project Description:
This is a restaurant project including both shell building and tenant build-out

Automatic Fire Suppression System:
Automatic Fire suppression system throughout per NFPA 13

2
Fire Alarm System:
Fire alarm system with full audible and visual coverage is not required in A occupancies of less than 300 occupants per 907.2.1 of the 2018 International Building Code

Occupancy Group:
Type A-2 Bar/Restaurant

Construction Type:
Type V-B, fully sprinklered

Allowable area for group A-2:
Tabular allowable area (table 503): 6,000 sf

Allowable area increase (section 506):
Automatic sprinkler increase: 300%
Area increase: (6,000 x 3) = 18,000 sf

Allowable Height:
(Table 503): 40 feet + 20 feet per 504.2 = 60 feet

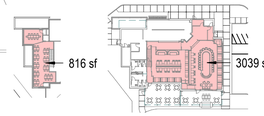
Allowable Stories:
(Table 503): 1 story + 1 story per 504.2

Actual Area:
First Floor: 4,814 sf
Mezzanine: 905 sf

Actual Height
30'-0"

Actual Stories
1 story w/ mezzanine

Mezzanine Calculations:
Level 1 dining/drinking area: 3,039 sf
Mezz. dining/drinking area: 816 sf
3,039 + 816 = 3,855 sf (25%)=964sf >816sf = ok
Per IBC 1108.2.9 Exception #2.



Means of Egress:
Per Chapter 10

Occupancy Count:
Non-seperated Mixed Use
Table 1004.1.2

Restaurant Interior - First Floor:
Assembly Concentrated 1/7 sf: 39 occupants
Assembly Table,Chairs 1/15 sf: 18 occupants
Assembly Fixed Seating: 108 occupants
Business 1/100 sf: 1 occupant
Kitchen 1/200 sf: 10 occupants
Subtotal: 176 occupants

Restaurant Interior - Mezzanine:
Assembly Fixed Seating: 48 occupants
Kitchen 1/200 sf: 1 occupant
Subotal: 49 occupants

Patio
Assembly Table,Chairs 1/15 sf: **56 occupants**

Total Occupant Load: 281 occupants

Exit access travel distance:
Group A 250 (feet) with sprinkler system

Common Path of Egress Travel:
Group A 75 (feet) with sprinkler system

No. of Exits Required
(Section 1021) 50 < occupant load < 500: 2 Exits

Fixture Count for A-2 Restaurant Occupancy
281 occupants

Toilets
141 male @ 1 per 75 = 2 male
141 female @ 1 per 75 =2 female

Lavatories
300 occupants @ 1 per 200 = 2 lavatories

Service Sink = 1 required

Dining Surface Accessible Requirements
Total Seats @ dining surfaces: 135 - Lower level
48 - Mezzanine
183 Total
183 (5%) = 9.15 = 10 accessible seats at dining surfaces to be provided on accessible level.
14 potential accessible seating locations on main level are provided. = Ok

Thermal Envelope Requirements	
Component	**R-Value**
Roof: Insulation entirely above roof deck	R-30ci
Walls, above grade: Wood framed and other	R-13+R3.8ci or R-20
Walls, below grade	R-7.5ci
Slab-on-grade floors: Unheated slabs	R-10 for 24" below

Fenestration Maximum U-factor	
Vertical Fenestration	**U-factor**
Fixed	0.38
Operable	0.45
Entrance door	0.77

Fenestration Maximum SHGC		
Projection Factor	**SEW**	**N**
PF<0.2	0.38	0.51
0.2<PF<0.5	0.46	0.56
PF> or equal 0.5	0.61	0.61

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STATE OF MISSOURI
PAUL C. MINTO
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CERTIFICATE OF AUTHORITY
April 12, 2021

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Code Information

A001

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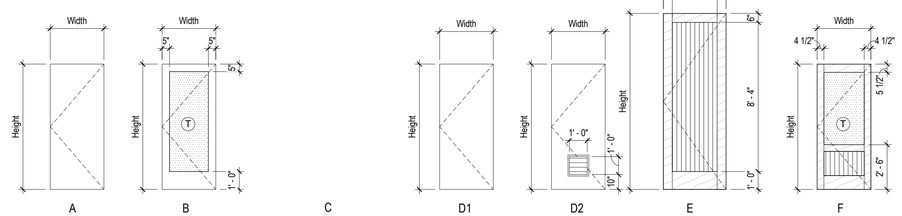
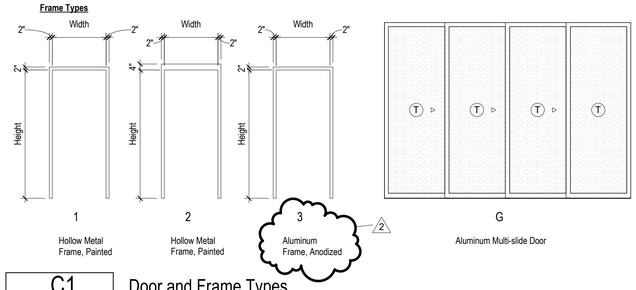
Door and Frame Schedule

Door Number	To Room: Name	Door Type	Door Mat	Door Width	Door Height	Frame Type	Frame Mat	Fire Rating	Hardware Hinges	Hardware Lockset function	Hardware Closer	Hardware Kickplate	Hardware Wall/Floor Stop	Hardware Smoke Gasket	Hardware Threshold	Hardware Astragal	Hardware Exit Device	Hardware Rain Drip	Hardware Coordinator	Remarks/Notes
101-1	Vestibule	E	Wd	3' - 4"	9' - 10"	ST3	Alum		Continuous	Db,P/P	X				X					1,2,4,8
101-2	Reception	B	Alum	3' - 0"	9' - 0"	ST6	Alum			E/E	X		Wall		X		X			3
102-1	Liquor Storage	D1	Wd	3' - 0"	7' - 0"	1	H/M			S	X		Wall							
103-1	To-Go	B	Alum	3' - 4"	7' - 0"	ST2	Alum			E/E	X				X		X	X		3
103-2	To-Go	D1	Wd	3' - 0"	7' - 0"	1	H/M			P	X									
106-1	Bar Dining	B	Alum	3' - 0"	7' - 0"	ST1	Alum			E/E	X				X		X			3
106-2	Bar Dining	G	Alum	14' - 0"	10' - 0"	ST1	Alum								X					
112-1	Dishwash	A	H/M	3' - 8"	7' - 0"	2	H/M			E/E	X	X			X		X			3
2 113-1	Mechanical Room	D1	Wd	3' - 0"	7' - 0"	1	H/M			E/E		X	Wall				X			3
115-1	Office	D1	Wd	3' - 0"	7' - 0"	1	H/M			O			Wall							
116-1	IT	D2	Wd	3' - 0"	7' - 0"	1	H/M			P			Wall							
2 117-1	Hall	B	Alum	3' - 0"	7' - 0"	3	Alum			E/E	X				X		X			3
118-1	Toilet	F	Wd	2' - 6"	7' - 0"	1	H/M	-	3	Priv	X		Wall							5, 6, 7
119-1	Toilet	F	Wd	2' - 6"	7' - 0"	1	H/M	-	3	Priv	X		Wall							5, 6, 7
120-1	Toilet	F	Wd	3' - 0"	7' - 0"	1	H/M	-	3	Priv	X		Wall							5, 6, 7
123-1	Toilet	F	Wd	3' - 0"	7' - 0"	1	H/M	-	3	Priv	X		Wall							5, 6, 7
124-1	Urinal	F	Wd	2' - 6"	7' - 0"	1	H/M	-	3	Priv	X		Wall							5, 6, 7
125-1	Urinal	F	Wd	2' - 6"	7' - 0"	1	H/M	-	3	Priv	X		Wall							5, 6, 7
126-1	Upper Patio	B	Alum	3' - 6"	7' - 0"	ST5	Alum			E/E	X				X		X			3
127-1	Lower Patio	B	Alum	3' - 6"	7' - 0"	ST4	Alum			E/E	X				X		X			3
M102-1	Closet	F	Wd	3' - 0"	7' - 0"	1	H/M			P			Wall							5, 7
2 M105-1	Storage	F	Wd	2' - 8"	7' - 0"	1	H/M			S			Wall							5, 7

Door Types



Frame Types



C1 Door and Frame Types

1/4" = 1'-0"

Material Key:

Alum	= Anodized Aluminum
H/M	= Hollow Metal
Stl	= Steel
Ins/Stl	= Insulated steel
Wd	= Wood
*	= Manufacturer's Standards
ETR	= Existing to remain

T = Tempered Safety Glazing

Lockset Function Key:

Elec	= Electrically Locked
O	= Office
S	= Storeroom
P	= Passage
Priv	= Privacy
P/P	= Push/Pull
E/E	= Emergency Egress
E	= Entrance
C	= Corridor
Db	= Deadbolt (thumblatch one side)
DL	= Keyed deadlock cylinder, key ea. side
ETR	= Existing to remain

Remarks

1. Main entrance to be keyed deadlock cylinder, key ea. side. Provide indicator on egress side reading "OPEN" and "LOCKED", and signage on egress side reading "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" in letters 1" high on a contrasting background.

2. Opaque stained, color: P6 (SW 2839 Roycroft Copper Red), distressed finish.

3. Provide panic hardware per IBC 1008.1.10

4. Custom pull by owner.

5. Wood veneer species and stained finish to match WD1.

6. Provide occupancy indicator (integral with mortice lock) on each side of door indicating vacant (green) and occupied (red)

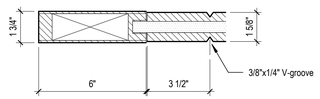
7. Locate glass lite translucent textured face on interior (water closet) side of door.

8. Door provided by owner from existing stock. G.C. to provide door hardware, finish, and install.

General Notes

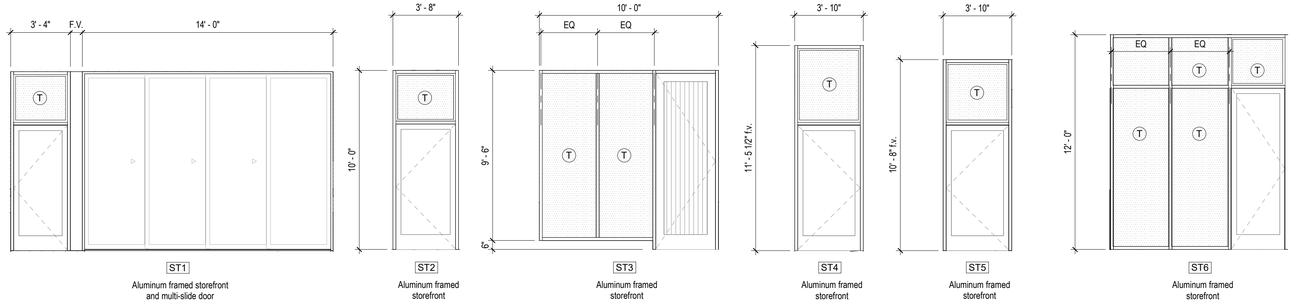
A. Door hardware to comply with ADA standards and IBC 2012. Thumb-turn style locks are not approved (tight grasping, pinching,or twisting of the wrist not approved).

B. Door hardware lockset basis of design:
Mortise lockset: Yale 8800FL Series, UB trim, 722 finish
Tubular lockset: Yale RL Series, UB trim, 722 finish
Push/pull set: Rockwood RM7700 - Black (BSP) - 48" on pull side
Horizontal single bar - Black on push side



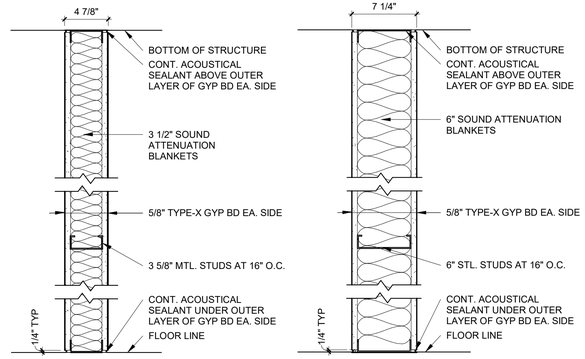
C4 Section Detail - Door Stile

3" = 1'-0"



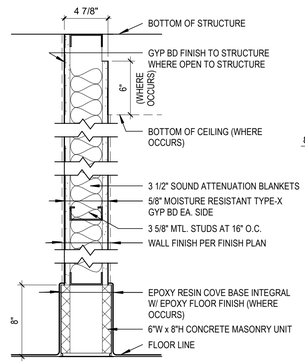
A1 Storefront Frame Types

1/4" = 1'-0"

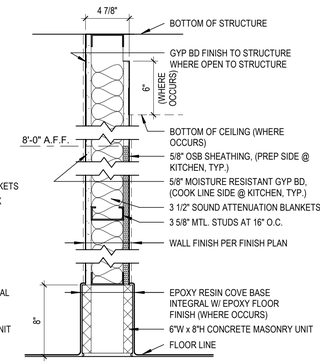


A1 ACOUSTIC GYPSUM BOARD ASSEMBLY (092900)
45-49 STC - SIM: GA FILE NO. WP 1072

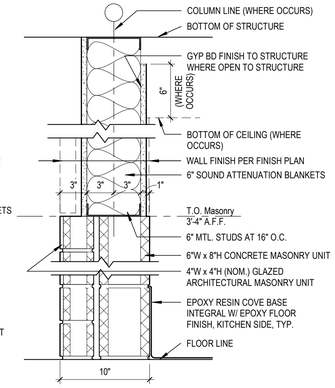
A2 ACOUSTIC GYPSUM BOARD ASSEMBLY (092900)
45-49 STC - SIM: GA FILE NO. WP 1072



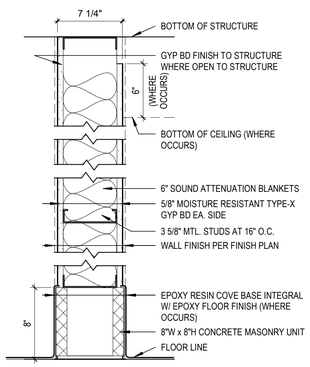
M1 GYPSUM BOARD AND CONCRETE MASONRY UNIT ASSEMBLY



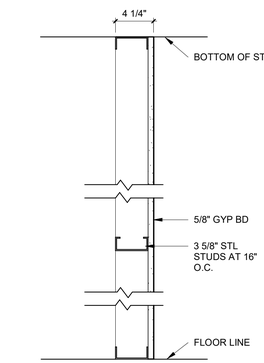
M2 GYPSUM BOARD AND CONCRETE MASONRY UNIT ASSEMBLY



M3 CONCRETE MASONRY UNIT ASSEMBLY



M4 GYPSUM BOARD AND CONCRETE MASONRY UNIT ASSEMBLY



O1 GYPSUM BOARD ASSEMBLY ONE-SIDE GYP BD

A8 Partition Types

1 1/2" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

2061 NW Lowenstein Dr.
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STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2012007055
REGISTERED ARCHITECT
Apr 12, 202

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PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021
3 Plans Review Comments	05.12.2021

General Information

A002

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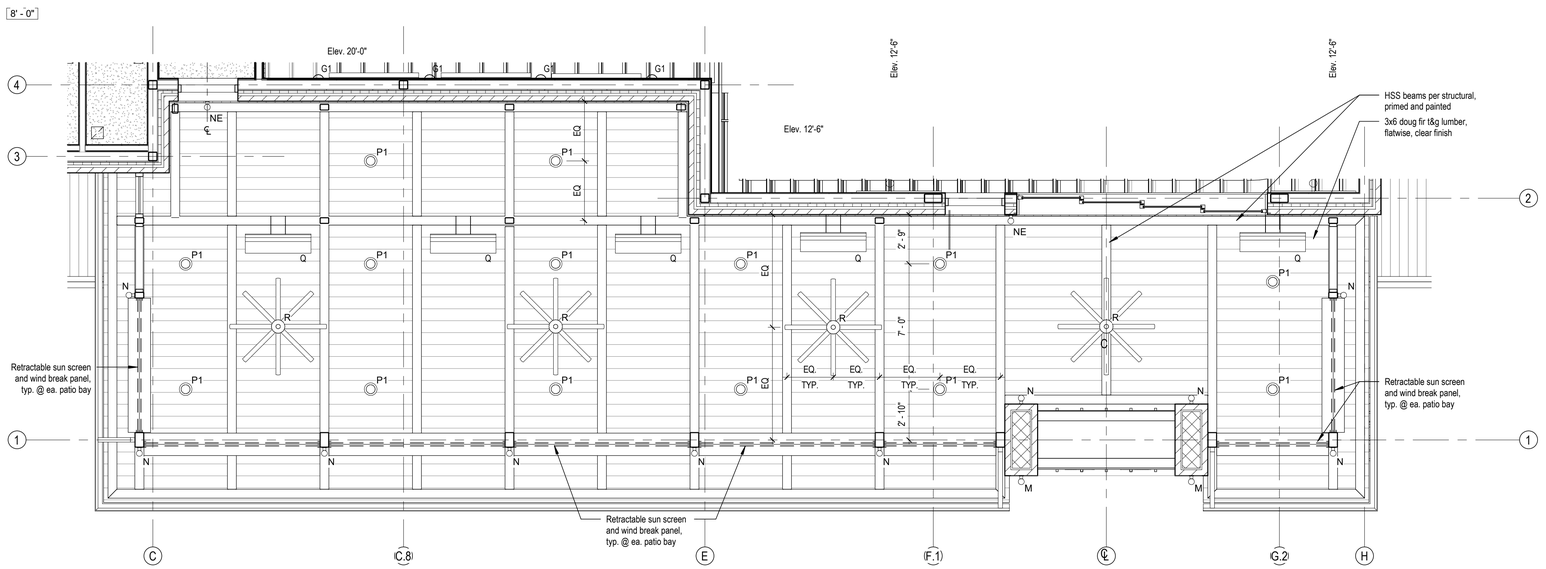
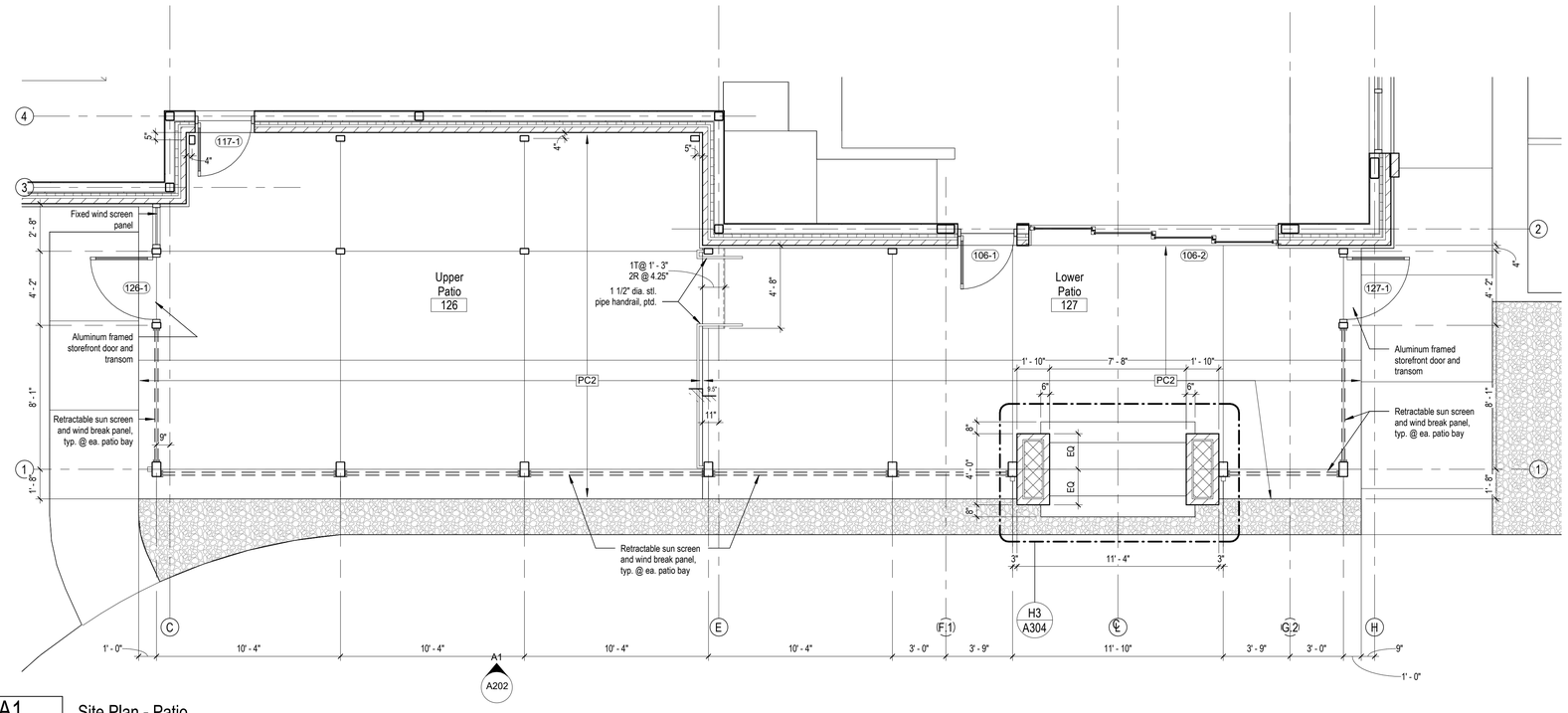


F1
1/4" = 1'-0"

Reflected Ceiling Plan - Patio



A1
1/4" = 1'-0"

Site Plan - Patio

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RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
4/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

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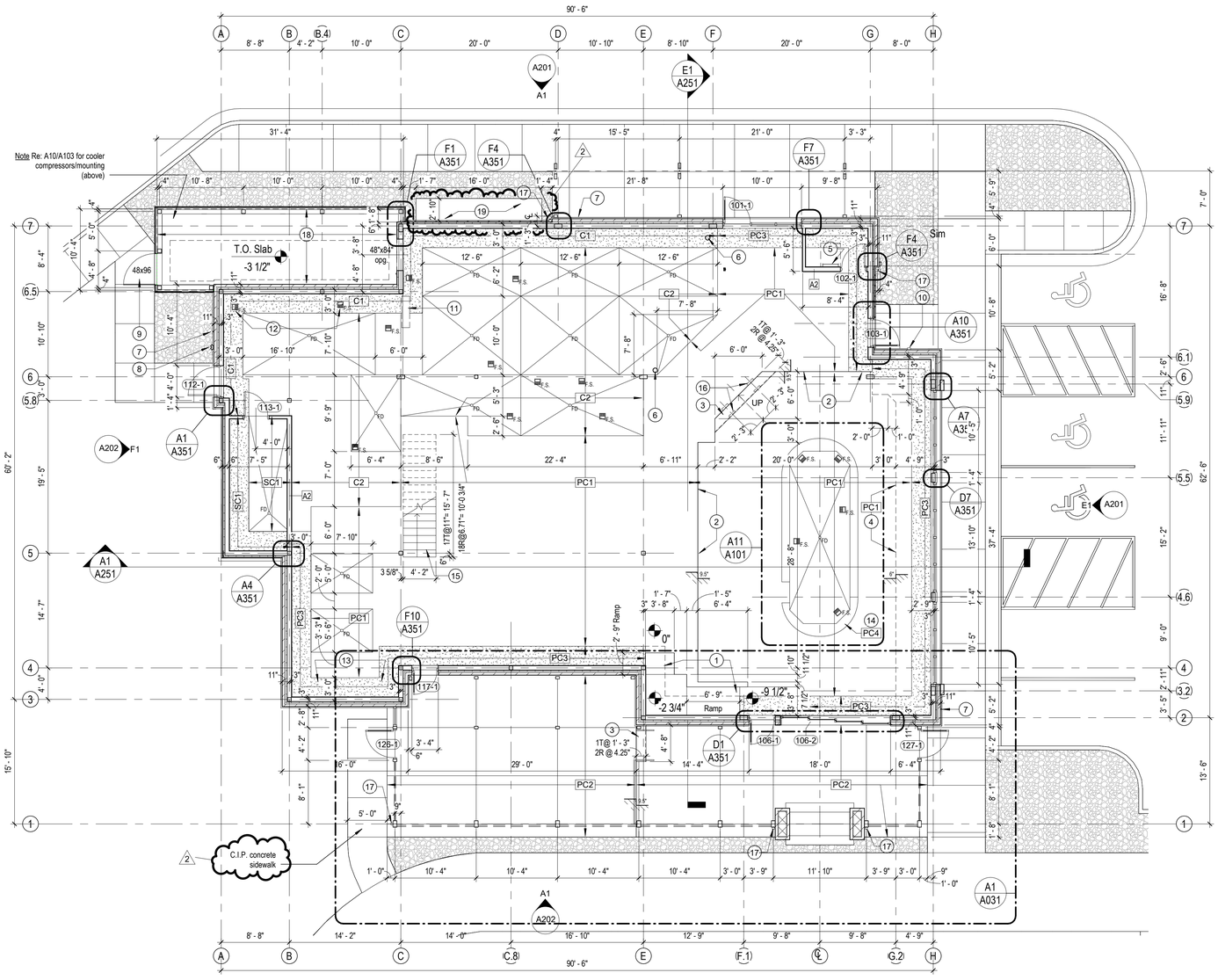
Patio Plan

A031



A1
1/8" = 1'-0"

First Floor Plan - Shell Bldg. and Interior Slab

NORTH

General Notes - Floor Plan

A. All dimensions are to face of stud, face of concrete, face of masonry, or to column lines unless noted otherwise.

B. All new interior walls to be type "A1" unless noted otherwise.

Floor Plan Legend

Existing construction to remain

New construction

FD Floor drain, re: plumb

F.S. Floor sink, re: plumb, kitchen
T.O. floor sink to be 1/2" above finished floor.

D.S. Downspout

Finish Legend

XX0 Floor Finish
XX0 Base Finish
XX0 Wall Finish

ETR Existing finish to remain

Concrete Floor and Finish Types

C1 C.I.P. CONCRETE, no finish, prepared for epoxy floor (Shell Scope 1)

C2 C.I.P. CONCRETE, no finish, prepared for epoxy floor (T.I. Scope 1)

SC1 SEALED CONCRETE (Shell Scope 1)

PC1 POLISHED CONCRETE (T.I. Scope 1)
C.I.P. concrete, integrally colored, ground/exposed aggregate, matte finish, interior grade sealer.

PC2 POLISHED CONCRETE (T.I. Scope 2)
C.I.P. concrete, integrally colored, ground/exposed aggregate, matte finish, exterior grade sealer.

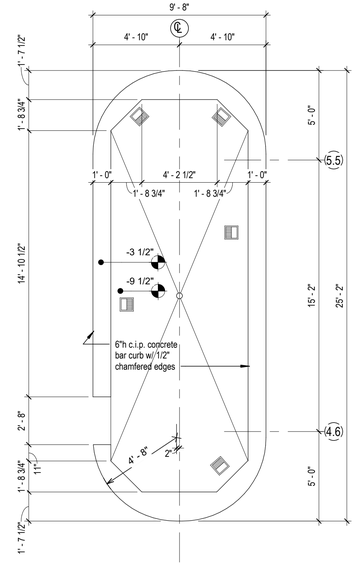
PC3 POLISHED CONCRETE
(Shell Scope 1): Provide C.I.P. concrete perimeter ribbon, integrally colored to match PC1.

(T.I. Scope 1): Provide finishing of perimeter ribbon. Ground/exposed aggregate, matte finish, interior grade sealer (grind and seal perimeter ribbon together with adjacent T.I. slab).

PC4 POLISHED CONCRETE (T.I. Scope 1)
C.I.P. concrete, integrally colored, matte finish. (no ground/exposed aggregate.)

Floor Plan Keynotes - Shell Building and Interior Slab

1. C.I.P. accessible concrete ramp, slope 1:12. Provide cement backer board in lieu of gyp board where ramp meets stud wall.
2. Face of concrete turn-down to match finish of adjacent concrete slabs, typical. Provide 1/2" chamfer at turn-down, typ. U.N.O.
3. C.I.P. concrete step.
4. 6" c.i.p. concrete platform (T.I. scope) finish type PC1, atop slab-on-grade (Shell scope). Re: F12/A651. Provide cement backer board (in lieu of gyp. bd.) where raised slab meets stud wall.
5. Metal ladder to roof access hatch.
6. Storm from roof, Re: plumb
7. Wall hydrant. Re: plumb.
8. Fire department connection.
9. Steel gate- tube and angle frame with corrugated metal infill, galvanized and painted, typ.
10. Knox box, Knoxvault Series 4400. Verfiy location with Fire Department
11. Block out perimeter ribbon slab for trench drain. Re: Plumb., Kitchen.
12. Coord. dish room rough-in at perimeter ribbon slab and footing. Re: Plumb., Kitchen
13. Coord. toilet/urinal rough-in at perimeter ribbon slab and footing. Re: Plumb.
14. 6"h c.i.p. concrete curb
15. Wood framed stair, Re: struct.
16. Step light. Cast into concrete riser. Re: elec.
17. Prefinished sheet metal downspout, tie into below grade drainage system, discharge at grade per civil.
18. 4" c.i.p. concrete slab on grade. Slope perimeter 1/4" per foot to drain. Re:A104, Kitchen for walk-in cooler information
19. 4" c.i.p. concrete slab atop monolithic footing



A11
1/4" = 1'-0"

Enlarged Plan - Bar Curb

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

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NUMBER 2004027055
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Apr 12, 2021

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Floor Plan

A101

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/22/2021

General Notes - Floor Plan

A. All dimensions are to face of stud, face of concrete, face of masonry, or to column lines unless noted otherwise.

B. All new interior walls to be type "A1" unless noted otherwise.

Floor Plan Legend

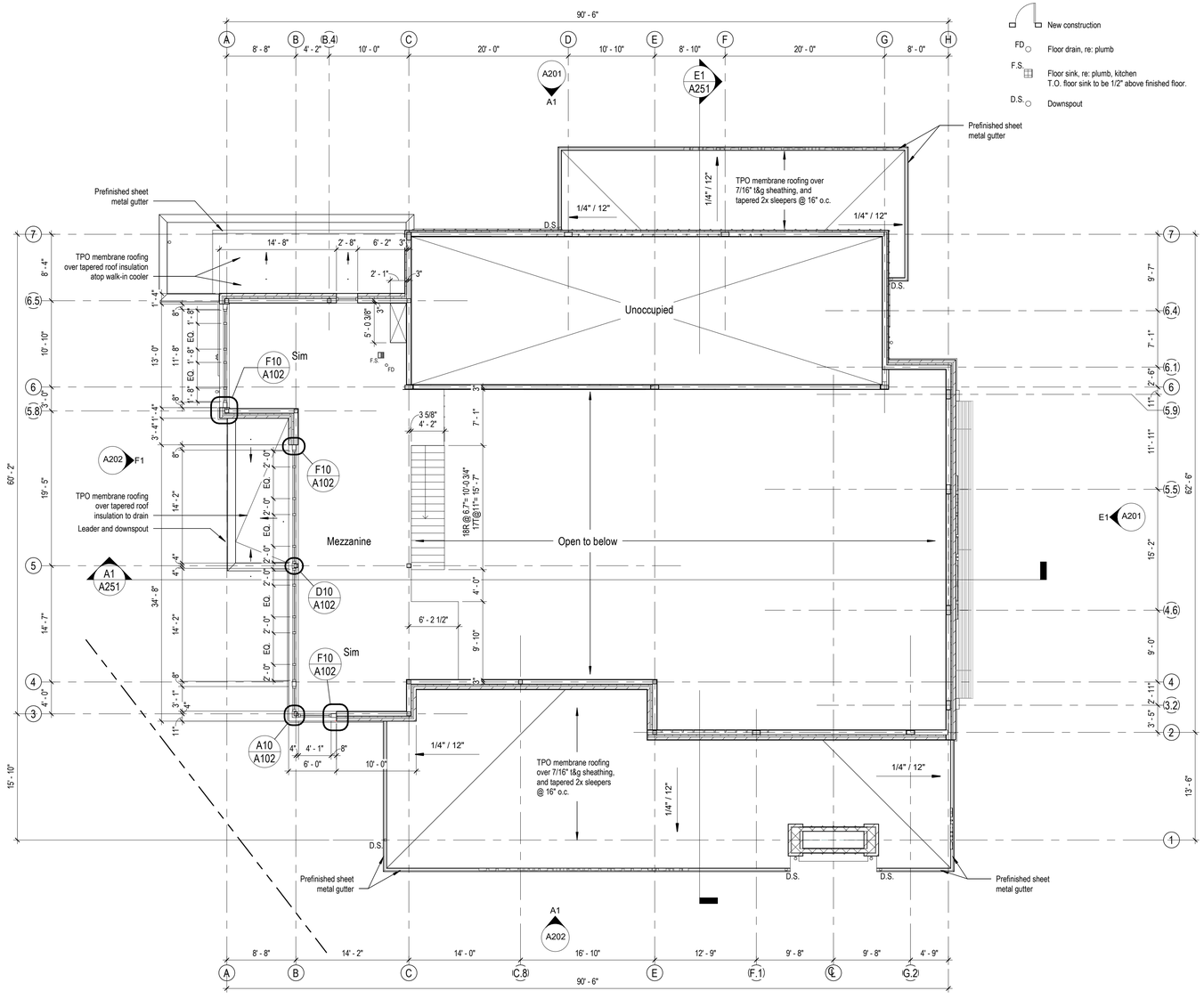
Existing construction to remain

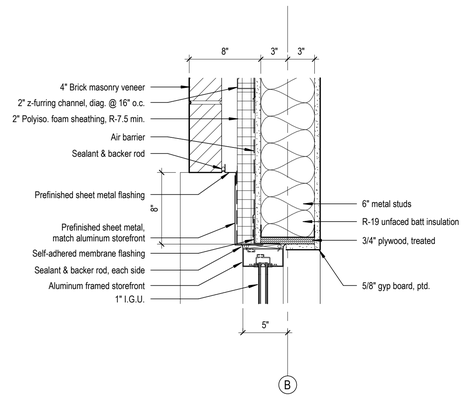
New construction

FD — Floor drain, re: plumb

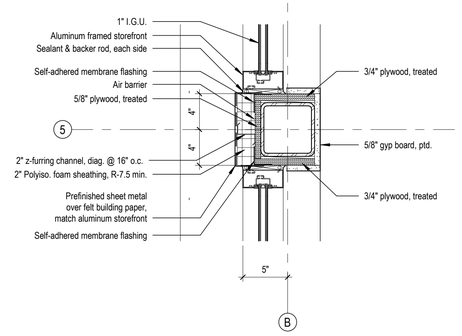
F.S. — Floor sink, re: plumb, kitchen T.O. floor sink to be 1/2" above finished floor.

D.S. — Downspout

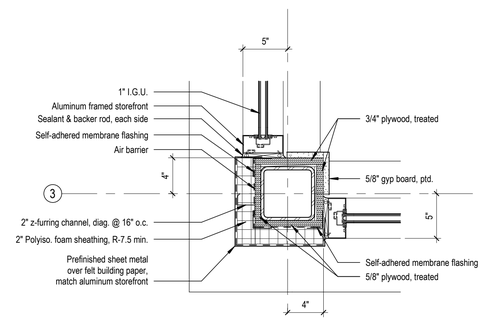




F10 — Plan Detail
1 1/2" = 1'-0"



D10 — Plan Detail
1 1/2" = 1'-0"



A10 — Plan Detail
1 1/2" = 1'-0"

A1 — Mezzanine and Low Roof Plan
1/8" = 1'-0"

NORTH

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URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents
2061 NW Lowenstein Dr.
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STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2004027255
REGISTERED ARCHITECT
April 12, 2021

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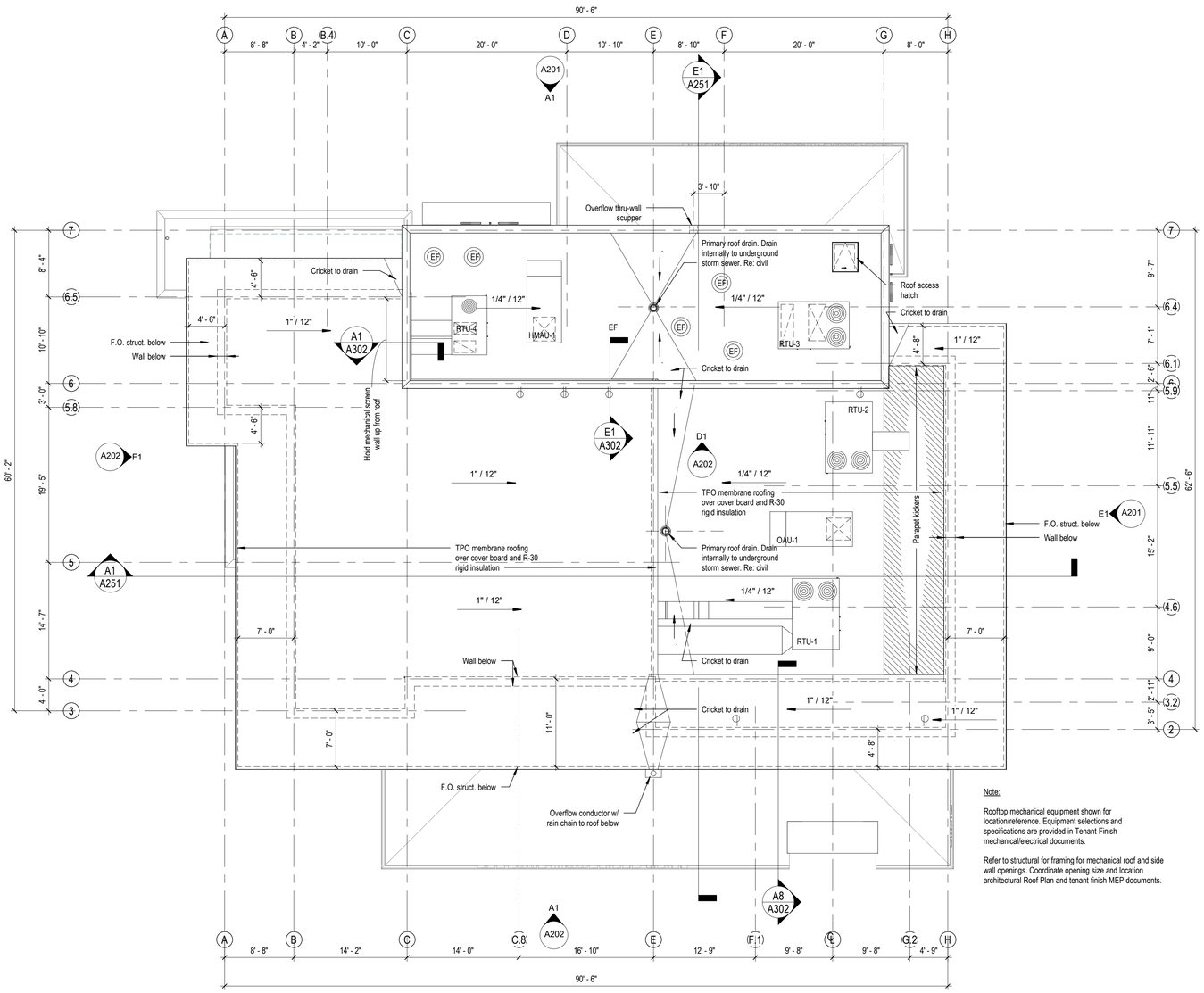
Mezzanine and Low Roof Plan

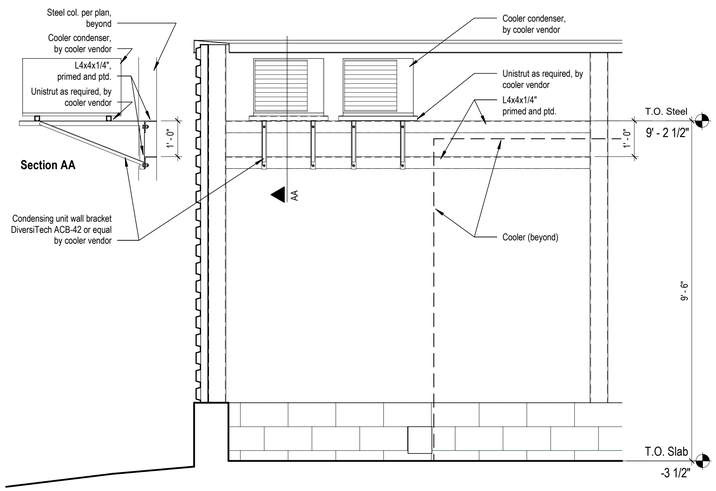
A102



Note:

Rooftop mechanical equipment shown for location/reference. Equipment selections and specifications are provided in Tenant Finish mechanical/electrical documents.

Refer to structural for framing for mechanical roof and side wall openings. Coordinate opening size and location architectural Roof Plan and tenant finish MEP documents.



A1 — Roof Plan — 1/8" = 1'-0"

NORTH

A10 — Elevation - Cooler Compressor — 1/2" = 1'-0"

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/22/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

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PAUL C. MINTO
NUMBER A-2004027056
REGISTERED ARCHITECT
April 2, 2021

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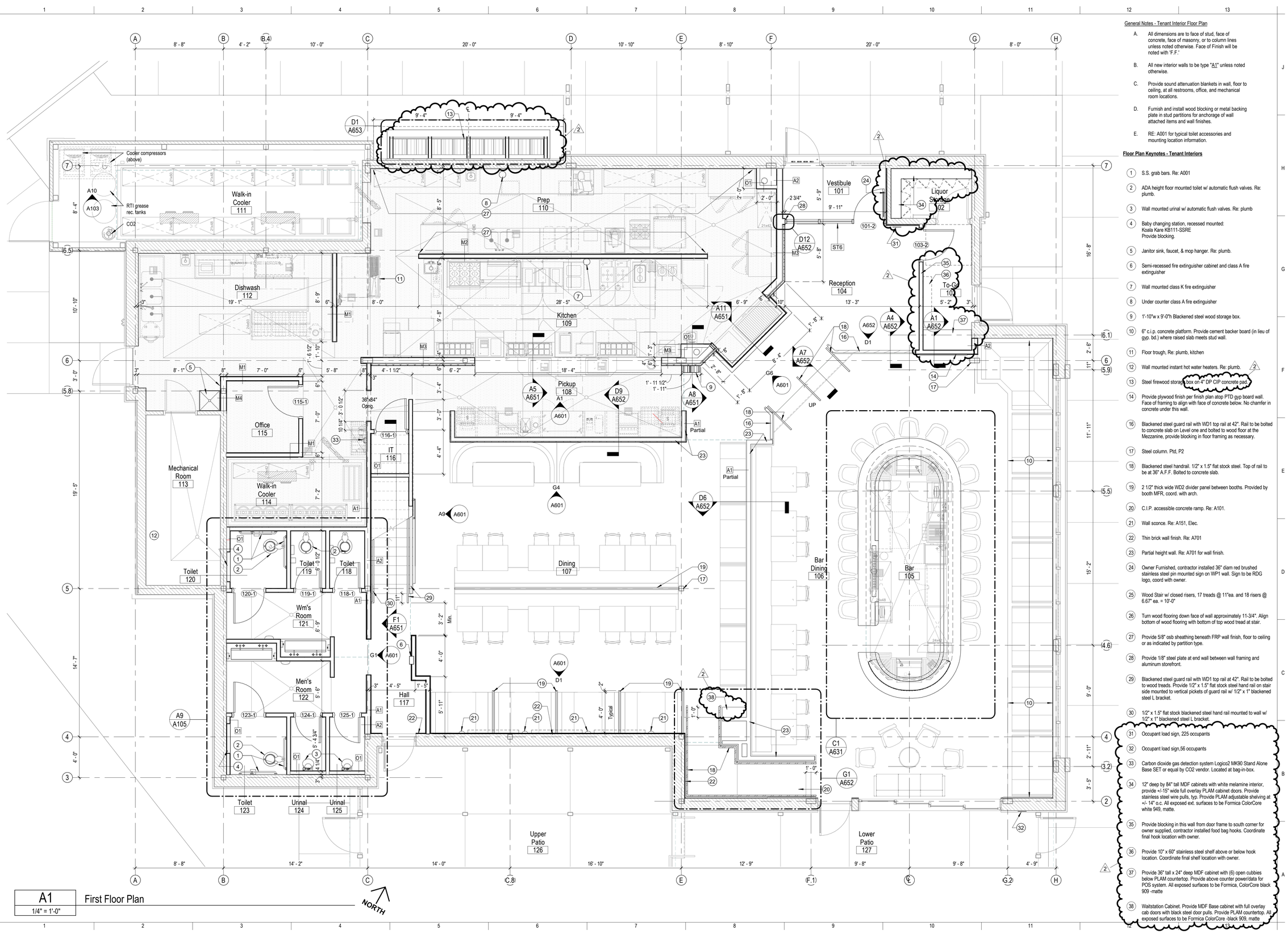
Roof Plan

A103



General Notes - Tenant Interior Floor Plan

A. All dimensions are to face of stud, face of concrete, face of masonry, or to column lines unless noted otherwise. Face of Finish will be noted with 'F.F.'

B. All new interior walls to be type "A1" unless noted otherwise.

C. Provide sound attenuation blankets in wall, floor to ceiling, at all restrooms, office, and mechanical room locations.

D. Furnish and install wood blocking or metal backing plate in stud partitions for anchorage of wall attached items and wall finishes.

E. RE: A001 for typical toilet accessories and mounting location information.

Floor Plan Keynotes - Tenant Interiors

1. S.S. grab bars. Re: A001
2. ADA height floor mounted toilet w/ automatic flush valves. Re: plumb.
3. Wall mounted urinal w/ automatic flush valves. Re: plumb
4. Baby changing station, recessed mounted: Koala Kare KB111-SSRE Provide blocking.
5. Janitor sink, faucet, & mop hanger. Re: plumb.
6. Semi-recessed fire extinguisher cabinet and class A fire extinguisher
7. Wall mounted class K fire extinguisher
8. Under counter class A fire extinguisher
9. 1'-10"w x 9'-0"h Blackened steel wood storage box.
10. 6" c.i.p. concrete platform. Provide cement backer board (in lieu of gyp. bd.) where raised slab meets stud wall.
11. Floor trough, Re: plumb, kitchen
12. Wall mounted instant hot water heaters. Re: plumb.
13. Steel firewood storage box on 4" DP CIP concrete pad.
14. Provide plywood finish per finish plan atop PTD gyp board wall. Face of framing to align with face of concrete below. No chamfer in concrete under this wall.
16. Blackened steel guard rail with WD1 top rail at 42". Rail to be bolted to concrete slab on Level one and bolted to wood floor at the Mezzanine, provide blocking in floor framing as necessary.
17. Steel column. Ptd. P2
18. Blackened steel handrail. 1/2" x 1.5" flat stock steel. Top of rail to be at 36" A.F.F. Bolted to concrete slab.
19. 2 1/2" thick wide WD2 divider panel between booths. Provided by booth MFR, coord. with arch.
20. C.I.P. accessible concrete ramp. Re: A101.
21. Wall sconce. Re: A151, Elec.
22. Thin brick wall finish. Re: A701
23. Partial height wall. Re: A701 for wall finish.
24. Owner Furnished, contractor installed 36" diam red brushed stainless steel pin mounted sign on WP1 wall. Sign to be RDG logo, coord with owner.
25. Wood Stair w/ closed risers, 17 treads @ 11"ea. and 18 risers @ 6.67" ea. = 10'-0"
26. Turn wood flooring down face of wall approximately 11-3/4". Align bottom of wood flooring with bottom of top wood tread at stair.
27. Provide 5/8" osb sheathing beneath FRP wall finish, floor to ceiling or as indicated by partition type.
28. Provide 1/8" steel plate at end wall between wall framing and aluminum storefront.
29. Blackened steel guard rail with WD1 top rail at 42". Rail to be bolted to wood treads. Provide 1/2" x 1.5" flat stock steel hand rail on stair side mounted to vertical pickets of guard rail w/ 1/2" x 1" blackened steel L bracket.
30. 1/2" x 1.5" flat stock blackened steel hand rail mounted to wall w/ 1/2" x 1" blackened steel L bracket.
31. Occupant load sign, 225 occupants
32. Occupant load sign,56 occupants
33. Carbon dioxide gas detection system Logico2 MK90 Stand Alone Base SET or equal by CO2 vendor. Located at bag-in-box.
34. 12" deep by 84" tall MDF cabinets with white melamine interior, provide +/-15" wide full overlay PLAM cabinet doors. Provide stainless steel wire pulls, typ. Provide PLAM adjustable shelving at +/- 14" o.c. All exposed ext. surfaces to be Formica ColorCore white 949, matte.
35. Provide blocking in this wall from door frame to south corner for owner supplied, contractor installed food bag hooks. Coordinate final hook location with owner.
36. Provide 10" x 60" stainless steel shelf above or below hook location. Coordinate final shelf location with owner.
37. Provide 36" tall x 24" deep MDF cabinet with (6) open cubbies below PLAM countertop. Provide above counter power/data for POS system. All exposed surfaces to be Formica, ColorCore black 909 -matte
38. Waitstation Cabinet. Provide MDF Base cabinet with full overlay cab doors with black steel door pulls. Provide PLAM countertop. All exposed surfaces to be Formica ColorCore -black 909, matte

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

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Lee's Summit, MO 64081

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PAUL C. MINTO
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Floor Plans - Tenant Interiors

A104

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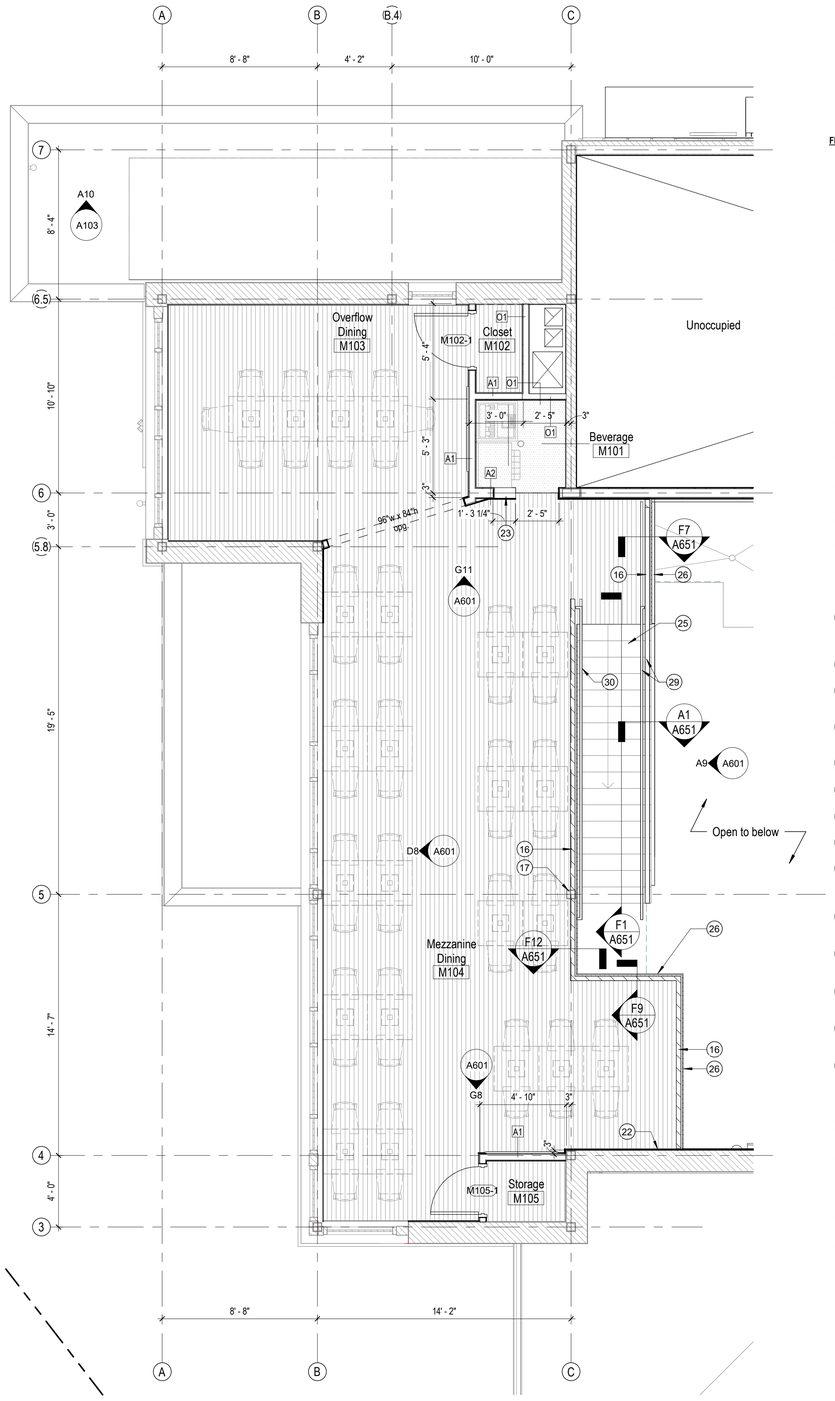

A1 Mezzanine Plan

1/4" = 1'-0"

NORTH

General Notes - Tenant Interior Floor Plan

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B. All new interior walls to be type "A1" unless noted otherwise.

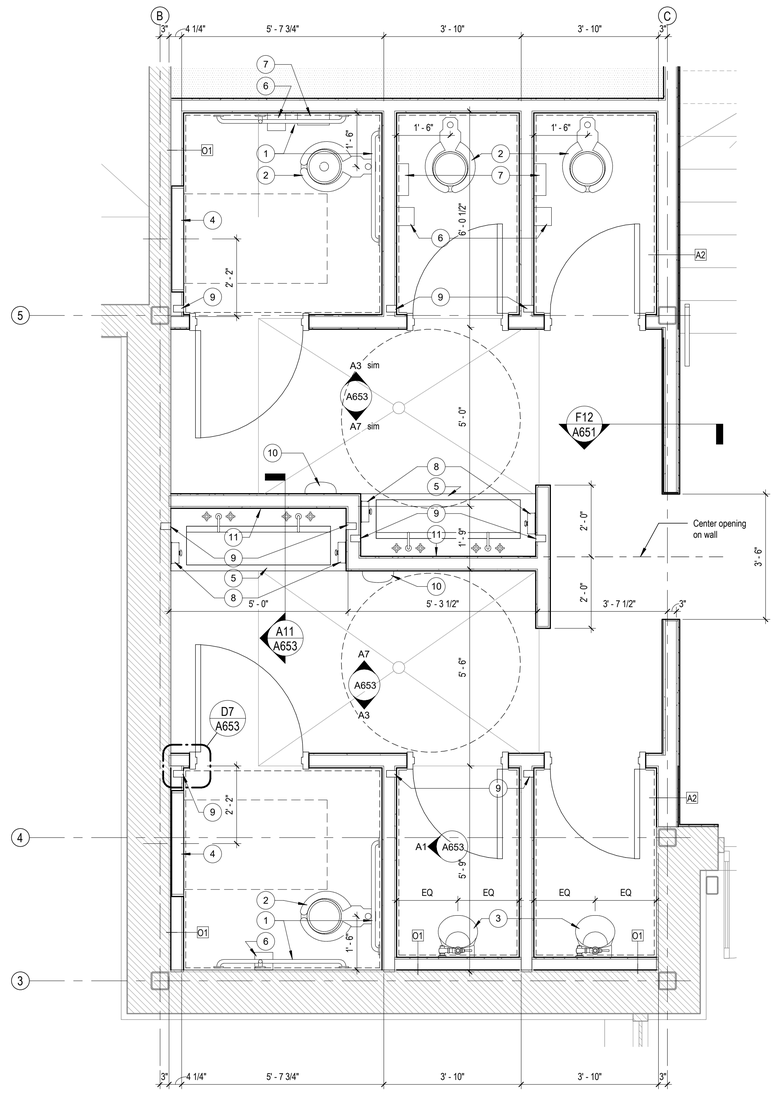
C. Provide sound attenuation blankets in wall, floor to ceiling, at all restrooms, office, and mechanical room locations.

D. Furnish and install wood blocking or metal backing plate in stud partitions for anchorage of wall attached items and wall finishes.

E. RE: A001 for typical toilet accessories and mounting location information.

Floor Plan Keynotes - Tenant Interiors

1. S.S. grab bars. Re: A001
2. ADA height floor mounted toilet w/ automatic flush valves. Re: plumb.
3. Wall mounted urinal w/ automatic flush valves. Re: plumb
4. Baby changing station, recessed mounted: Koala Kare KB111-SSRE Provide blocking.
5. Janitor sink, faucet, & mop hanger. Re: plumb.
6. Semi-recessed fire extinguisher cabinet and class A fire extinguisher
7. Wall mounted class K fire extinguisher
8. Under counter class A fire extinguisher
9. 1'-10"w x 9'-0"h Blackened steel wood storage box.
10. 6" c.i.p. concrete platform. Provide cement backer board (in lieu of gyp. bd.) where raised slab meets stud wall.
11. Floor trough, Re: plumb, kitchen
12. Wall mounted instant hot water heaters. Re: plumb.
13. Steel firewood storage box on 4" DP CIP concrete pad.
14. Provide plywood finish per finish plan atop PTD gyp board wall. Face of framing to align with face of concrete below. No chamfer in concrete under this wall.
16. Blackened steel guard rail with WD1 top rail at 42". Rail to be bolted to concrete slab on Level one and bolted to wood floor at the Mezzanine, provide blocking in floor framing as necessary.
17. Steel column. Ptd, P2
18. Blackened steel handrail. 1/2" x 1.5" flat stock steel. Top of rail to be at 36" A.F.F. Bolted to concrete slab.
19. 2 1/2" thick wide WD2 divider panel between booths. Provided by booth MFR, coord. with arch.
20. C.I.P. accessible concrete ramp. Re: A101.
21. Wall sconce. Re: A151, Elec.
22. Thin brick wall finish. Re: A701
23. Partial height wall. Re: A701 for wall finish.
24. Owner Furnished, contractor installed 36" diam red brushed stainless steel pin mounted sign on WP1 wall. Sign to be RDG logo, coord with owner.
25. Wood Stair w/ closed risers, 17 treads @ 11"ea. and 18 risers @ 6.67" ea. = 10'-0"
26. Turn wood flooring down face of wall approximately 11-3/4". Align bottom of wood flooring with bottom of top wood tread at stair.
27. Provide 5/8" osb sheathing beneath FRP wall finish, floor to ceiling or as indicated by partition type.
28. Provide 1/8" steel plate at end wall between wall framing and aluminum storefront.
29. Blackened steel guard rail with WD1 top rail at 42". Rail to be bolted to wood treads. Provide 1/2" x 1.5" flat stock steel hand rail on stair side mounted to vertical pickets of guard rail w/ 1/2" x 1" blackened steel L bracket.
30. 1/2" x 1.5" flat stock blackened steel hand rail mounted to wall w/ 1/2" x 1" blackened steel L bracket.
31. Occupant load sign, 225 occupants
32. Occupant load sign,56 occupants
33. Carbon dioxide gas detection system Logico2 MK90 Stand Alone Base SET or equal by CO2 vendor. Located at bag-in-box.
34. 12" deep by 84" tall MDF cabinets with white melamine interior, provide +/-15" wide full overlay PLAM cabinet doors. Provide stainless steel wire pulls, typ. Provide PLAM adjustable shelving at +/- 14" o.c. All exposed ext. surfaces to be Formica ColorCore white 949, matte.
35. Provide blocking in this wall from door frame to south corner for owner supplied, contractor installed food bag hooks. Coordinate final hook location with owner.
36. Provide 10" x 60" stainless steel shelf above or below hook location. Coordinate final shelf location with owner.
37. Provide 36" tall x 24" deep MDF cabinet with (6) open cubbies below PLAM countertop. Provide above counter power/data for POS system. All exposed surfaces to be Formica, ColorCore black 909 -matte
38. Waitstation Cabinet. Provide MDF Base cabinet with full overlay cab doors with black steel door pulls. Provide PLAM countertop. All exposed surfaces to be Formica ColorCore -black 909, matte



A9 Enlarged Plan - Restrooms

1/2" = 1'-0"

Keynote Legend - Restrooms

Note: provide wood blocking behind wall mounted restroom accessories, typ.

1. S.S. grab bars. Re: A001
2. Floor mounted toilet, American Standard Madera 3043.001. ADA height, w/ automatic flush valves. Re: plumb.
3. Wall mounted urinal, American Standard Decorum 6042.001. w/ automatic flush valves. Re: plumb.
4. Baby changing station, recessed mounted: Koala Kare KB110-SSRE Provide blocking.
5. Quartz trough sink, QZ1
6. Toilet paper holder, Bobrick B-2888, typ.
7. Sanitary napkin disposal (at wom's rm's), Bobrick B-254, typ.
8. S.S. soap dispenser Bobrick B-2112, typ.
9. Recessed light, Re: A151, elec.
10. Elec. hand dryer, Bobrick B-7188, typ.
11. Mirror

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2012007056
CORPORATE SEAL
Apr 12, 2021

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Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021
3 Plans Review Comments	05.12.2021

Floor Plans - Tenant Interiors

A105

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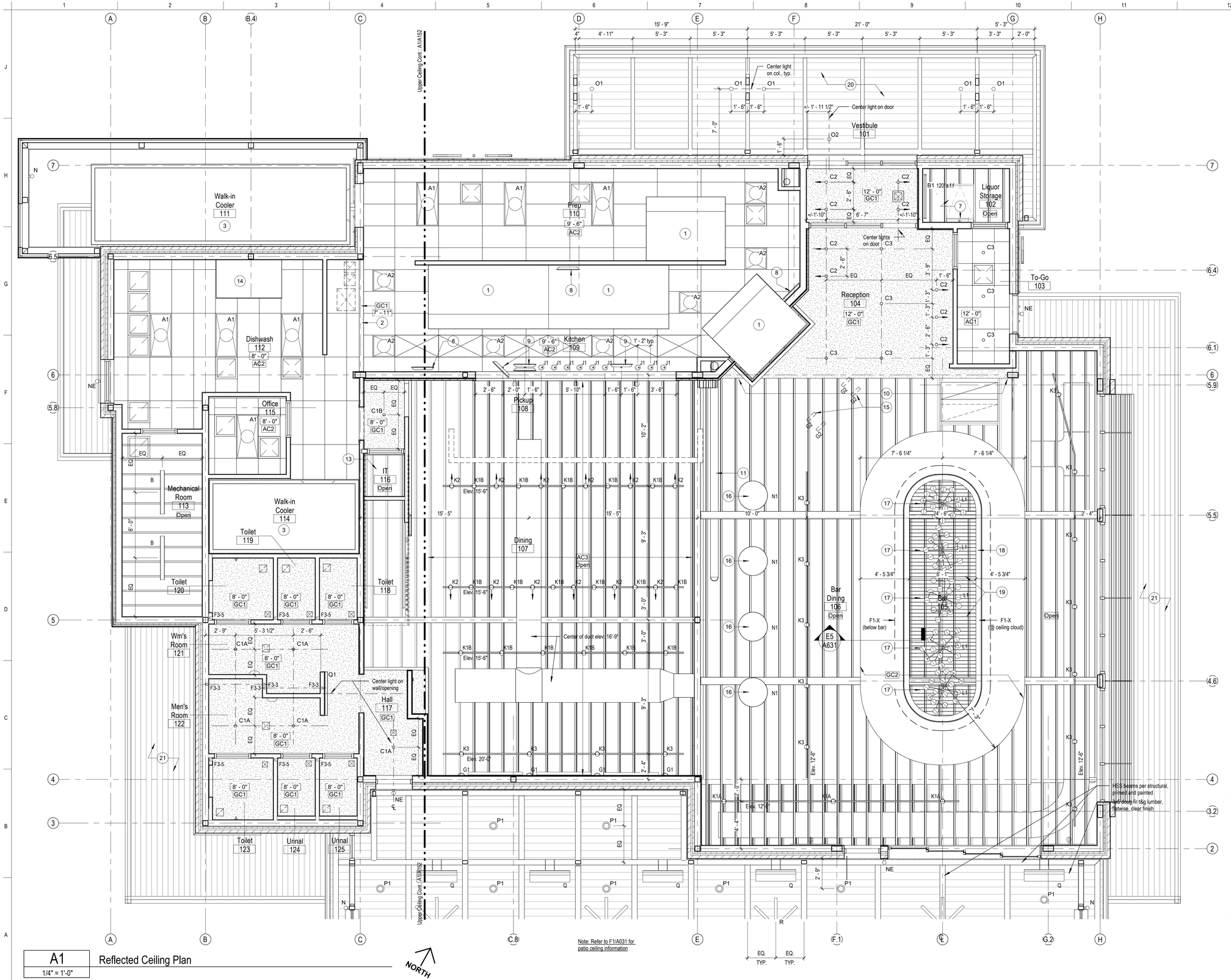

A1
1/4" = 1'-0"

Reflected Ceiling Plan

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Reflected Ceiling Plan Keynotes

1. Exhaust hood. Re: Mech.
2. Gyp. board soffit, ptd.
3. Walk-in cooler w/ integral light per manufacturer. Re: Kitchen
4. Not used
5. TV's on ceiling mounts by AV contractor. Provide 2x blocking between roof trusses for mounting.
6. Manual operated roller shades by owner. Draper Clutch Operated FlexShade or equal. Ceiling/wall headbox w/ aluminum fascia.
7. Roof hatch and metal ladder (shell building scope)
8. Kitchen monitor on wall mounted bracket by others. GC provide power and conduit for data. Re: elec.
9. Kitchen monitor on hung bracket by others. GC provide power and conduit for data at ceiling above. Re: elec.
10. Gyp. bd. bulkhead to structure, ptd.
11. Roof drain storm line (shell building scope). Route high in joist space and through steel beams. Re: Plumb.
12. Provide linear slot return diffuser, RE: MEP. Center above guard rail below.
13. Coordinate cooling/ventilation requirements for IT room with owner. Provide cooling/ventilation as required.
14. Condensate hood. Re: Mech., Kitchen
15. Step light cast into concrete riser below. Re: elec.
16. Pendant light over booth table
17. Pendant light over bar
18. LED strip light concealed within cove of ceiling, GC1
19. 1x6 rift sawn white oak WD1 boards @ 4" O.C. Provide 2" black fiberglass acoustical board over top.
20. 3x6 Douglas fir T&G lumber flatwise, clear finish. On HSS beams per stuctrual, primed and painted.
21. 2x6 Douglas fir T&G wood soffit, clear finish.

Ceiling Plan Finish Legend

Note: At ceiling open to structure paint exposed surfaces, decking, steel joists and beams, ductwork, conduit and other unfinished materials color P2 unless noted otherwise.

- AC1 — Acoustical panel ceiling, 2x2 tegular edge, NRC 70 min., black finish
- AC2 — Washable acoustic panel ceiling, white finish
- AC3 — Acoustical panel ceiling Rockfon Industrial Black, 2'x4'x2" square lay-in, NRC 1.05. Rip panels lengthwise to fit between roof joists. Direct attach with hex-head wood screw and washer through ceiling panel, fastened to roof deck. Paint screw and washer black prior to install.
- GC2 — 1/2" gypsum ceiling board PTD.
- GC2 — 1/2" gypsum ceiling board with Armourcoat surface. Final finish coat to be Spatulata; white
- Open — Open to existing structure. Paint all exposed surfaces, framing, ductwork, conduit and other unfinished materials color P2: SW 7675 Sealskin

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2001007055
Apr 12, 2021

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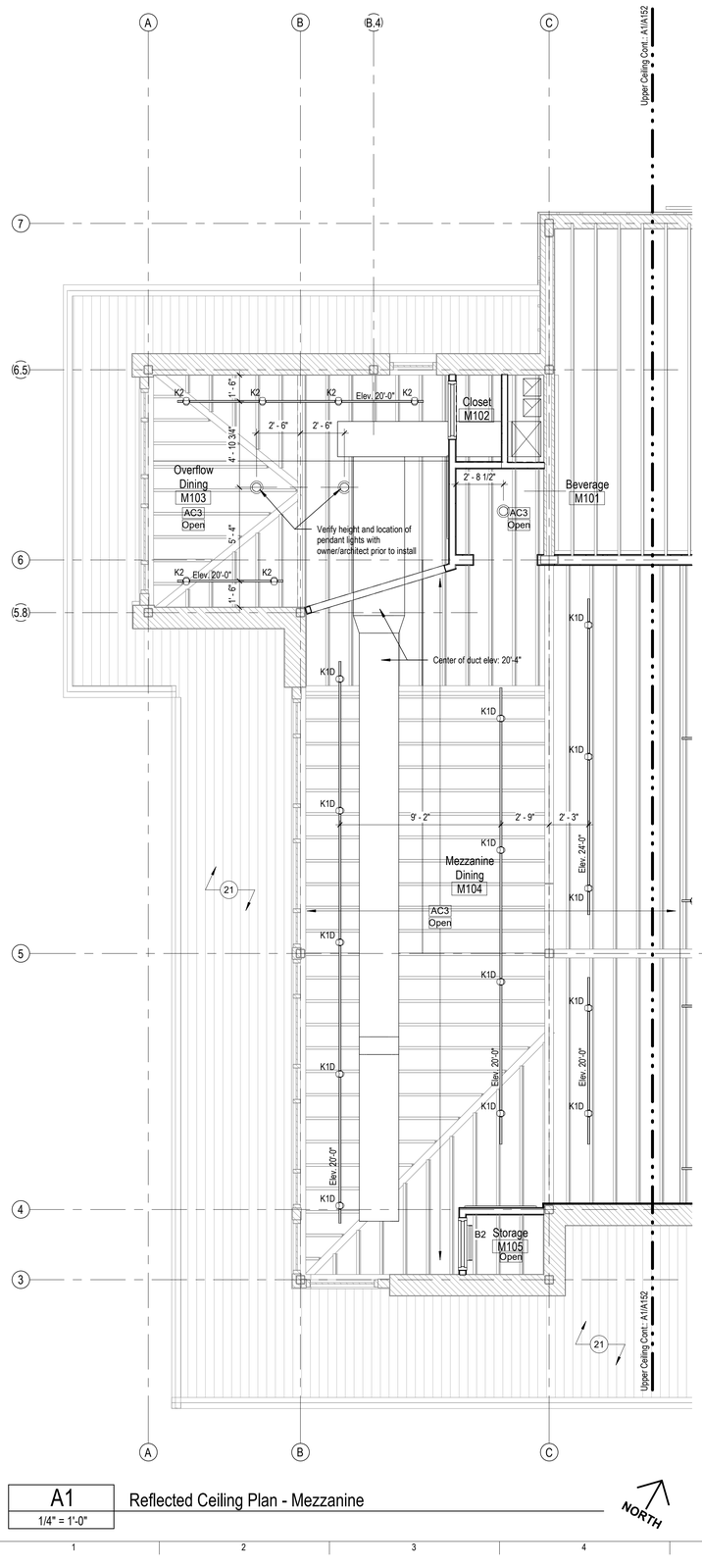
Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	06.03.2021
3 Plans Review Comments	05.12.2021

Reflected Ceiling Plan

A151



A1

1/4" = 1'-0"

Reflected Ceiling Plan - Mezzanine

NORTH

Reflected Ceiling Plan Keynotes

1. Exhaust hood. Re: Mech.
2. Gyp. board soffit, ptd.
3. Walk-in cooler w/ integral light per manufacturer. Re: Kitchen
4. Not used
5. TV's on ceiling mounts by AV contractor. Provide 2x blocking between roof trusses for mounting.
6. Manual operated roller shades by owner. Draper Clutch Operated FlexShade or equal. Ceiling/wall headbox w/ aluminum fascia.
7. Roof hatch and metal ladder (shell building scope)
8. Kitchen monitor on wall mounted bracket by others. GC provide power and conduit for data. Re: elec.
9. Kitchen monitor on hung bracket by others. GC provide power and conduit for data at ceiling above. Re: elec.
10. Gyp. bd. bulkhead to structure, ptd.
11. Roof drain storm line (shell building scope). Route high in joist space and through steel beams. Re: Plumb.
12. Provide linear slot return diffuser, RE: MEP. Center above guard rail below.
13. Coordinate cooling/ventilation requirements for IT room with owner. Provide cooling/ventilation as required.
14. Condensate hood, Re: Mech., Kitchen
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16. Pendant light over booth table
17. Pendant light over bar
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20. 3x6 Douglas fir T&G lumber flatwise, clear finish. On HSS beams per stuctrual, primed and painted.
21. 2x6 Douglas fir T&G wood soffit, clear finish.

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- AC2 — Washable acoustic panel ceiling, white finish
- AC3 — Acoustical panel ceiling
  Rockfon Industrial Black, 2'x4'x2" square lay-in, NRC 1.05. Rip panels lengthwise to fit between roof joists. Direct attach with hex-head wood screw and washer through ceiling panel, fastened to roof deck. Paint screw and washer black prior to install.
- GC2 — 1/2" gypsum ceiling board PTD.
- GC2 — 1/2" gypsum ceiling board with Armourcoat surface. Final finish coat to be Spatulata; white
- Open — Open to existing structure. Paint all exposed surfaces, framing, ductwork, conduit and other unfinished materials color P2: SW 7675 Sealskin

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2012007156
REGISTERED ARCHITECT
Apr 12, 2021

food service
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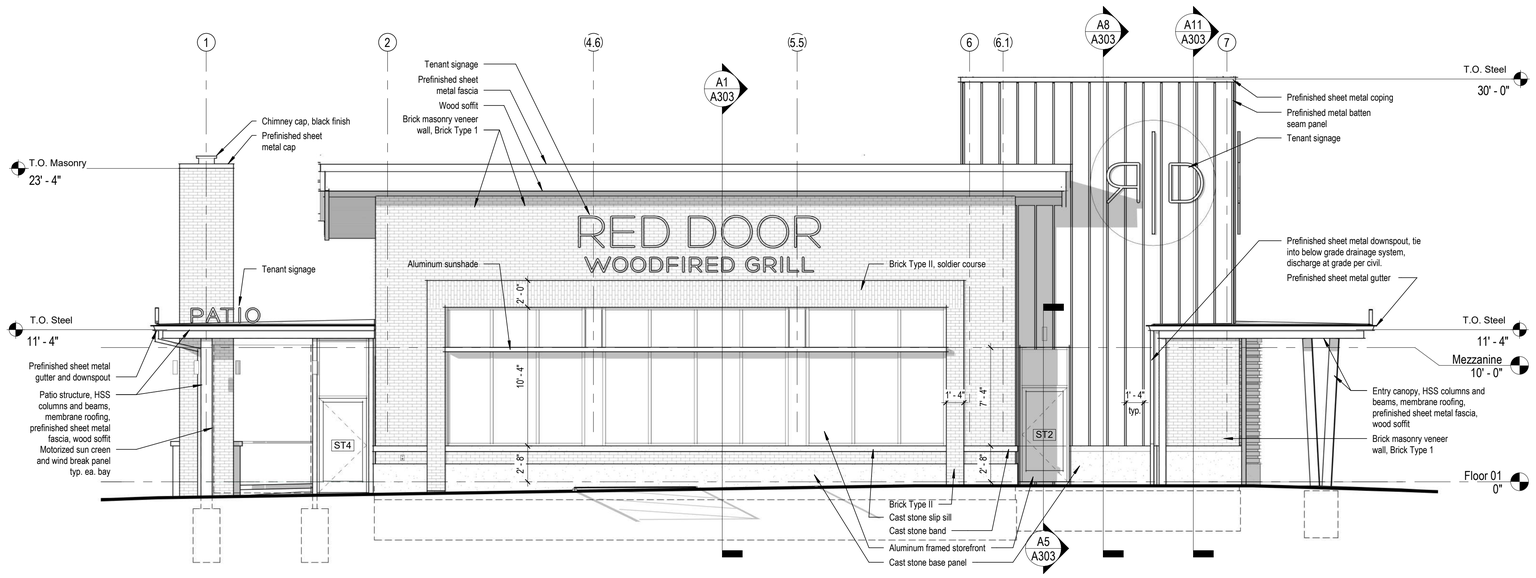
Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021
3 Plans Review Comments	05.12.2021

Reflected Ceiling Plan

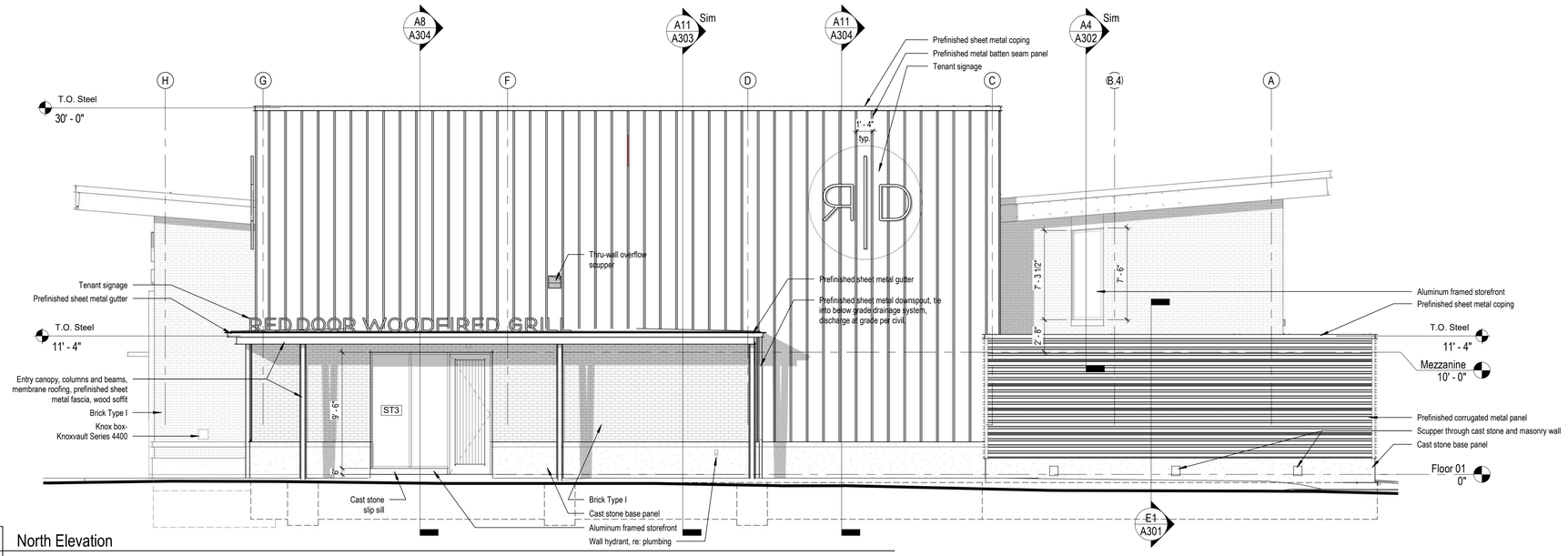
A152



E1

3/16" = 1'-0"

East Elevation



A1

3/16" = 1'-0"

North Elevation

Exterior Finish Basis of Design Products:

Aluminum Framed Storefront
Mfg: Tubelite
Style: T14000
Color: Black anodized
Size: 2" x 4 1/2" center set
Note: 1" IGU, low-E

Aluminum Sunshade
Mfg: Tubelite
Style: Maxblock Sunshade Z-Blade
Color: Black anodized
Size: 30" projection, 5-1/4" blade

Brick Type I
Mfg: Hebron Brick Company
Color: Sea Grey #6 (70%)
Silverado (30%)
Size: Modular
Finish: Velour

Brick Type II
Mfg: Hebron Brick Company
Color: Sea Grey #6
Size: Modular
Finish: Velour

Brick Type III
Mfg: Sioux City Brick
Color: Ebonite Velour
Size: Modular
Finish: Velour

Paving Brick Type I
Mfg: Yankee Hill
Color: Dove Grey
Pattern: Herringbone

Prefinished Metal Batten Seam Panel
Mfg: Berridge
Style: Batten Seam Panel
Color: Matte Black
Size: 24 ga. x 16" wide
Note: Coping finish to match

Prefinished Corrugated Metal Panel
Mfg: Berridge
Style: HR-16 Panel
Color: Zinc Grey
Size: 24 ga. x 16" wide, 4" rib w/ 2" reveal

Wood Soffit
Species: Douglas Fir
Style: Tongue and groove
Size: 1x6
Finish: Stained

Fenced Enclosure and Gate
Mfg: Ameristar
Style: WireWorks Plus
Panel: 4' tall, 2"x6" mesh, 3" v-fold, 6ga. wire
Post: 2" sq. x 16ga.
Finish: PermaCoat powder coated
Color: Black

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/22/2021

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2004027055
REGISTERED ARCHITECT
April 12, 2021

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PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

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3. Plans Review Comments	05.12.2021

Exterior Elevations

A201

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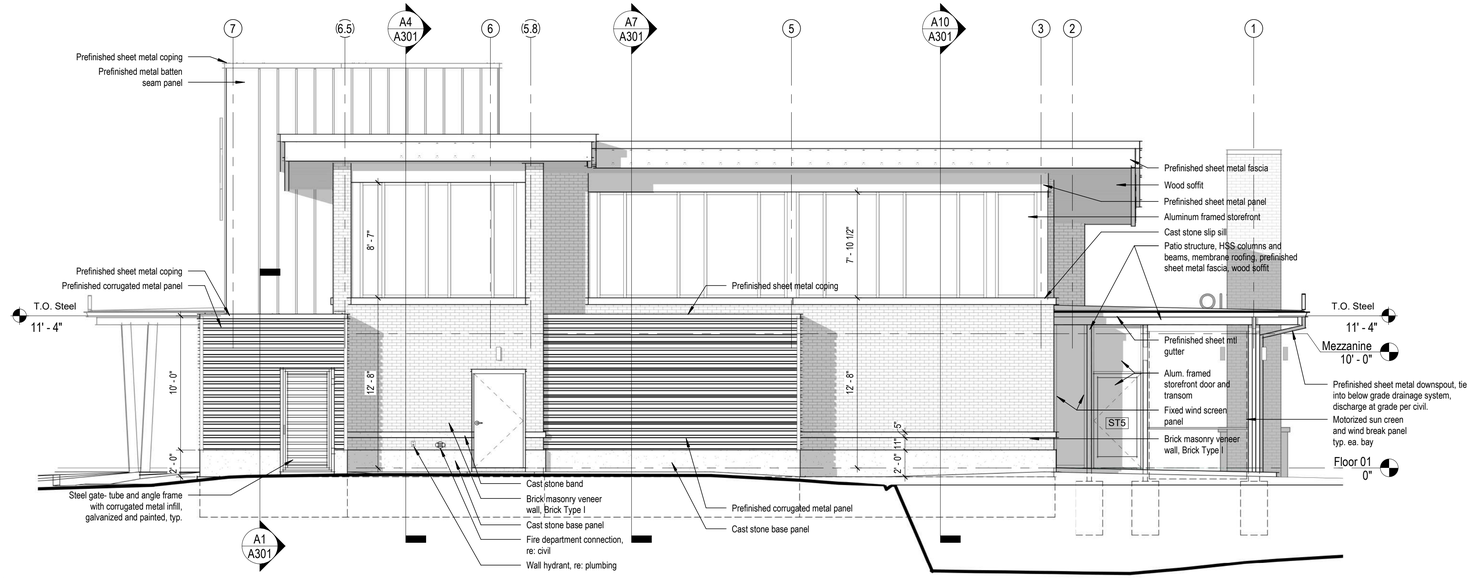
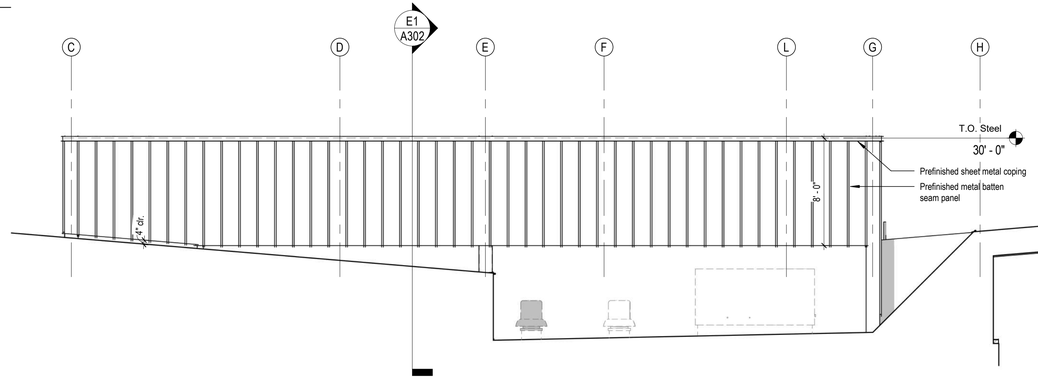
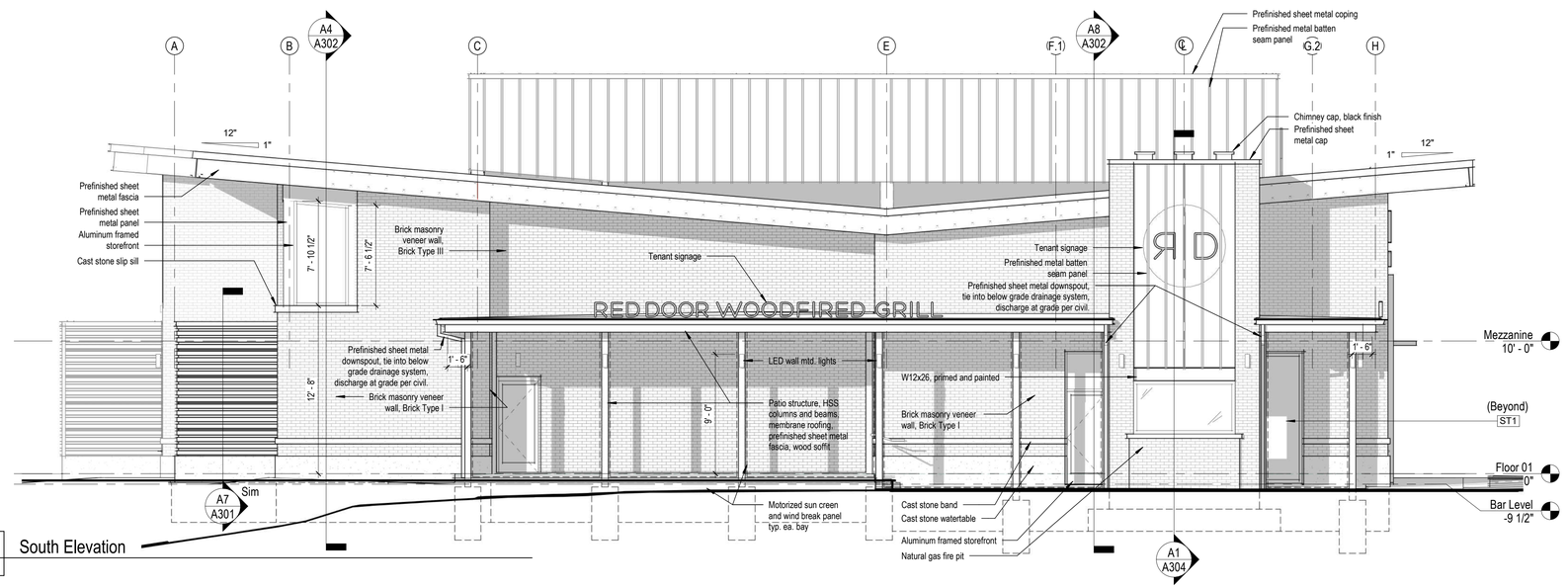


F1 West Elevation
3/16" = 1'-0"



D1 South Elevation - Roof Screen
3/16" = 1'-0"



A1 South Elevation
3/16" = 1'-0"

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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/22/2021

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2003007056
REGISTERED ARCHITECT
12.22.21

Exterior Finish Basis of Design Products:

Aluminum Framed Storefront
Mfg: Tubelite
Style: T14000
Color: Black anodized
Size: 2" x 4 1/2" center set
Note: 1" IGU, low-E

Aluminum Sunshade
Mfg: Tubelite
Style: Maxblock Sunshade Z-Blade
Color: Black anodized
Size: 30" projection, 5-1/4" blade

Brick Type I
Mfg: Hebron Brick Company
Color: Sea Grey #6 (70%)
Silverado (30%)
Size: Modular
Finish: Velour

Brick Type II
Mfg: Hebron Brick Company
Color: Sea Grey #6
Size: Modular
Finish: Velour

Brick Type III
Mfg: Sioux City Brick
Color: Ebonite Velour
Size: Modular
Finish: Velour

Paving Brick Type I
Mfg: Yankee Hill
Color: Dove Grey
Pattern: Herringbone

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Mfg: Berridge
Style: Batten Seam Panel
Color: Matte Black
Size: 24 ga. x 16" wide
Note: Coping finish to match

Prefinished Corrugated Metal Panel
Mfg: Berridge
Style: HR-16 Panel
Color: Zinc Grey
Size: 24 ga. x 16" wide, 4" rib w/ 2" reveal

Wood Soffit
Species: Douglas Fir
Style: Tongue and groove
Size: 1x6
Finish: Stained

Fenced Enclosure and Gate
Mfg: Ameristar
Style: WireWorks Plus
Panel: 4' tall, 2"x6" mesh, 3" v-fold, 6ga. wire
Post: 2" sq. x 16ga.
Finish: PermaCoat powder coated
Color: Black

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PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

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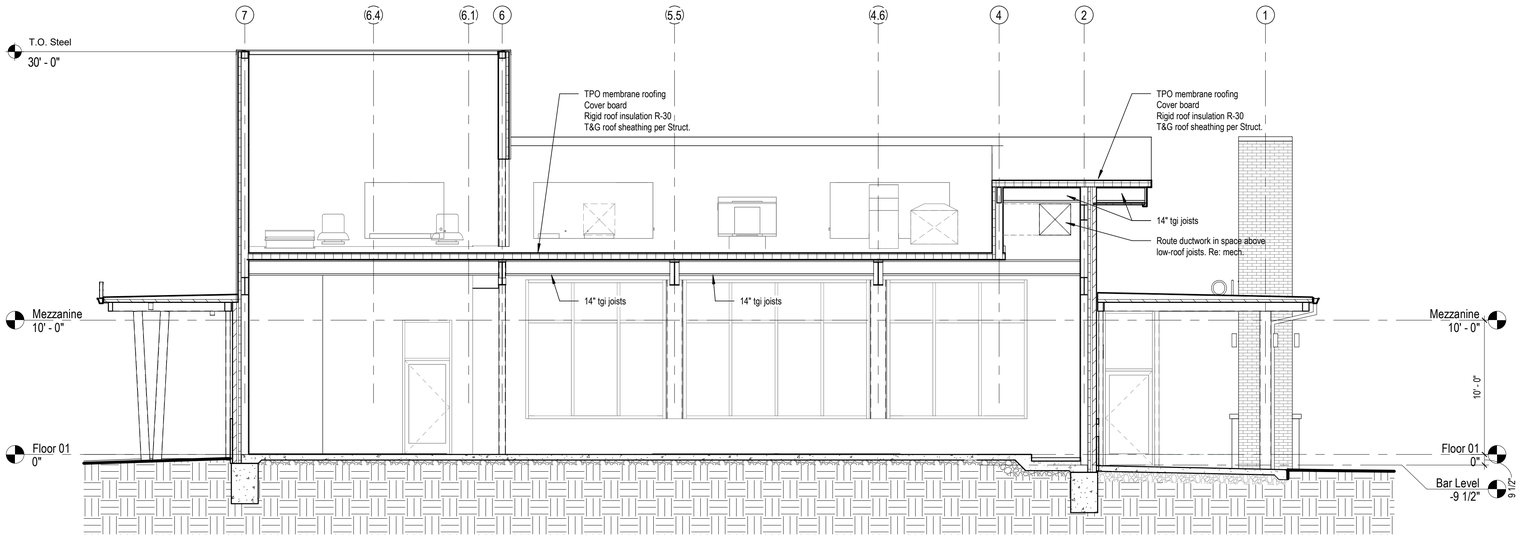
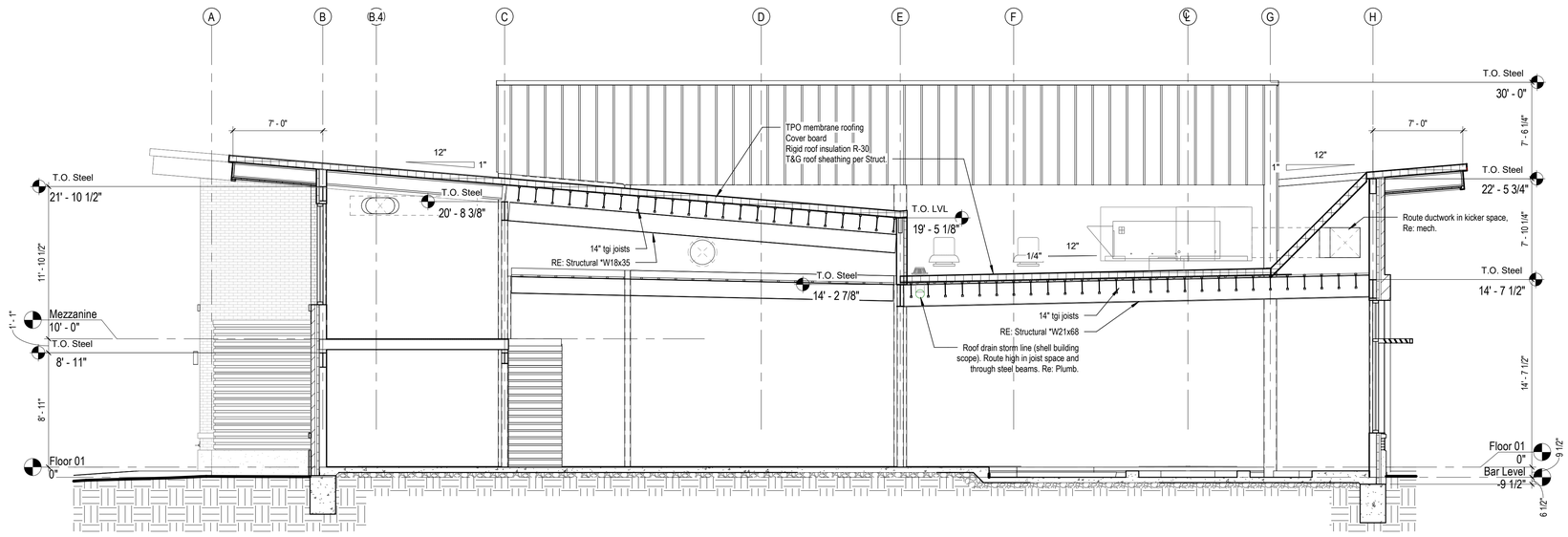
Exterior Elevations

A202



E1 — Building Section
3/16" = 1'-0"



A1 — Building Section
3/16" = 1'-0"

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URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2014007156
REGISTERED ARCHITECT
Apr 12, 2021

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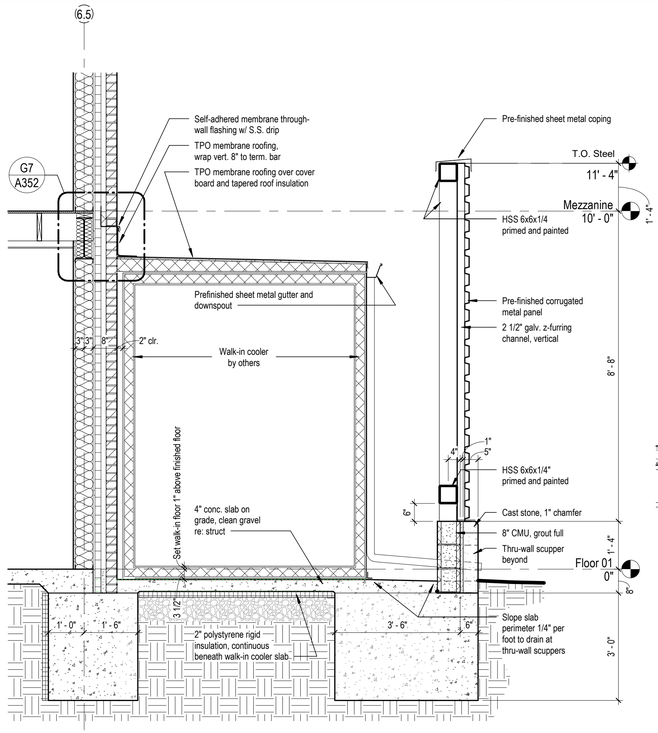
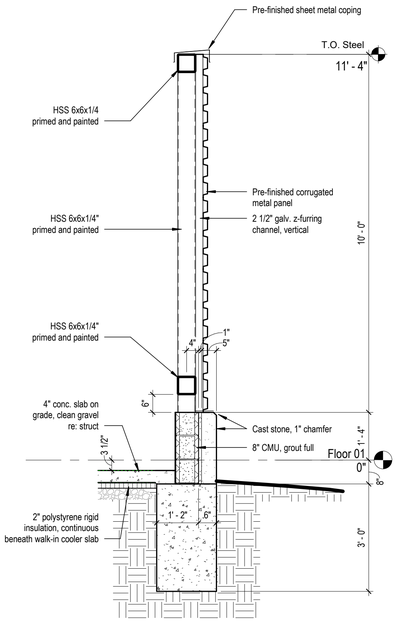
Building Sections

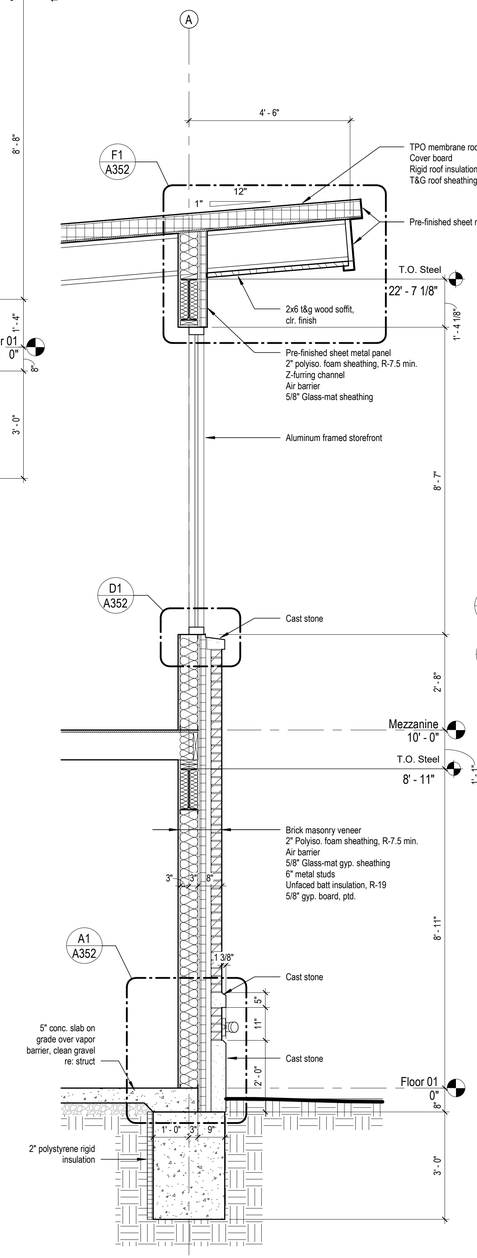
A251



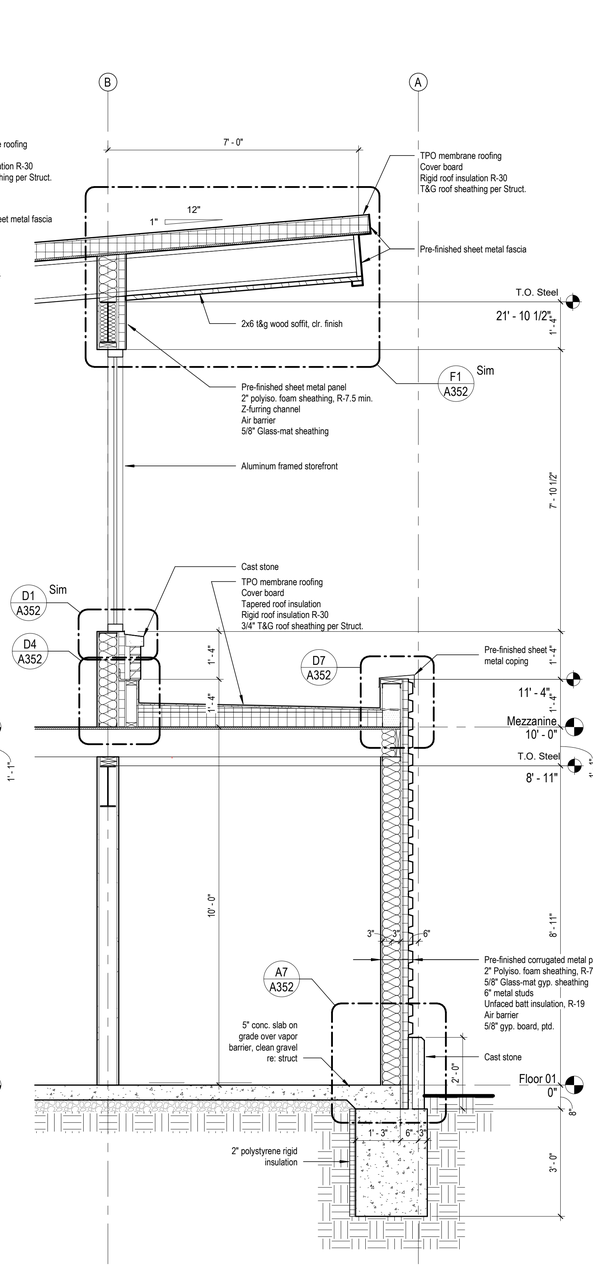
E1 Wall Section
1/2" = 1'-0"



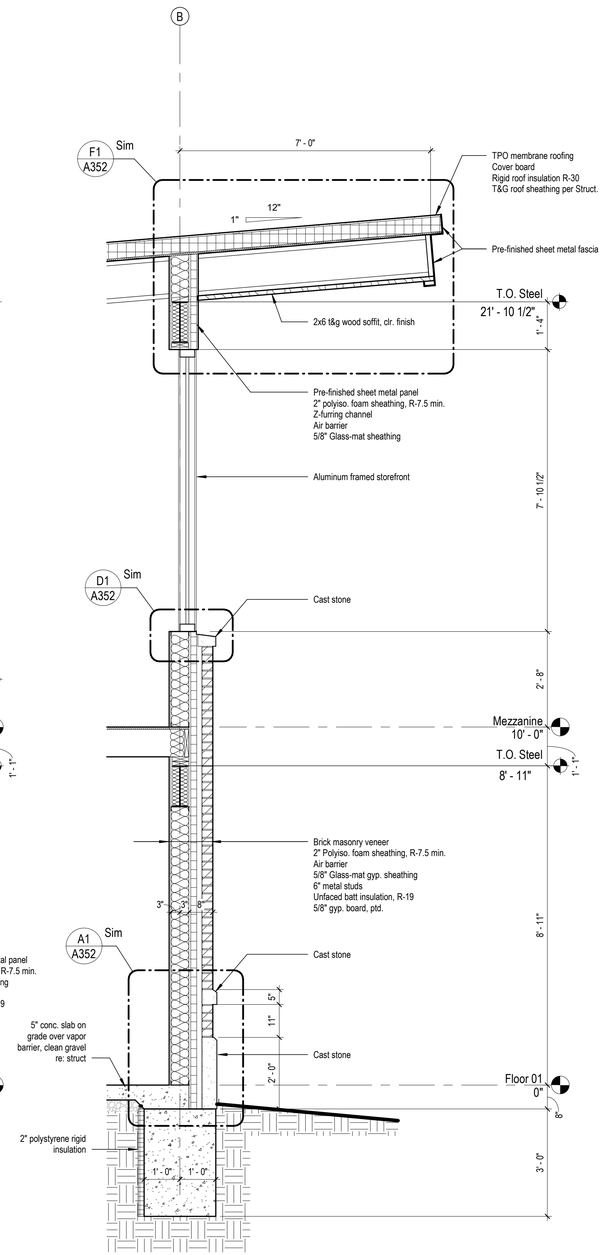
A1 Wall Section
1/2" = 1'-0"



A4 Wall Section
1/2" = 1'-0"



A7 Wall Section
1/2" = 1'-0"



A10 Wall Section
1/2" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/12/2021

URBAN PRAIRIE
ARCHITECTURAL
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2001007056
REGISTERED ARCHITECT
05/12/2021

food service
TriMark Hockenbergs

10550 Barkley, Ste. 201
Overland Park, Kansas 66212
p. 913.945.2490

mechanical, electrical, and plumbing
Welch and Mitchell

4370 W. 109th St., Ste. 203
Overland Park, KS 66211
913.544.1627

structural
Bob D. Campbell

4338 Belleview
Kansas City, MO 64111
816.531.4144

civil
SM Engineering

5507 High Meadow Circle
Manhattan, Kansas 66503
785.341.9747

architectural

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

4523 Mercier Street
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prminto@urbanprairiekc.com

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021
3 Plans Review Comments	05.12.2021

Wall Sections

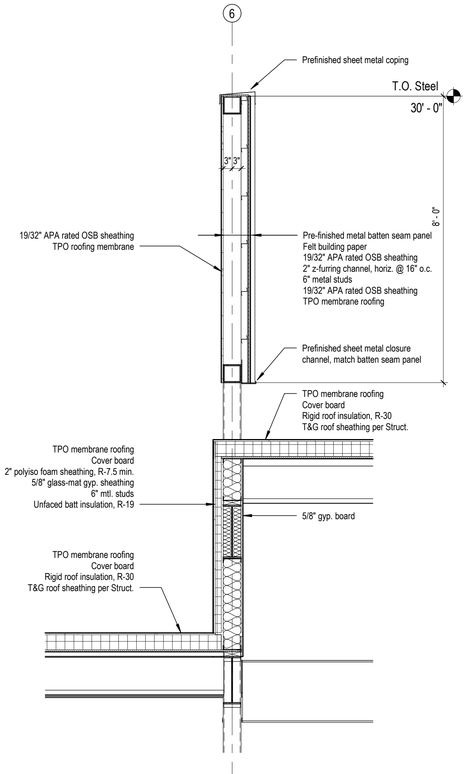
A301

C:\Users\rhunter\Documents\20-033_RDG LS_Central_adskkio3.rvt

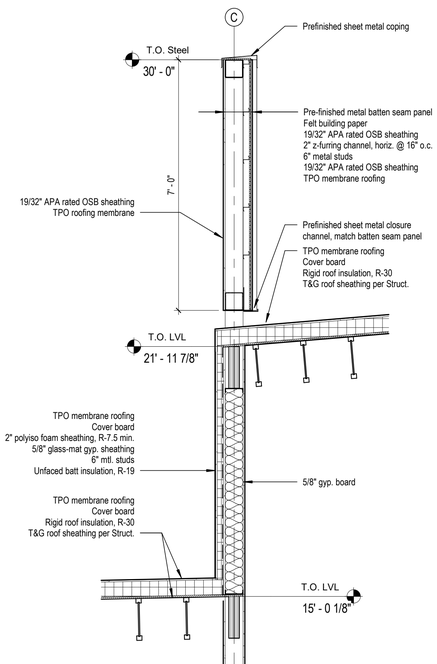
URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

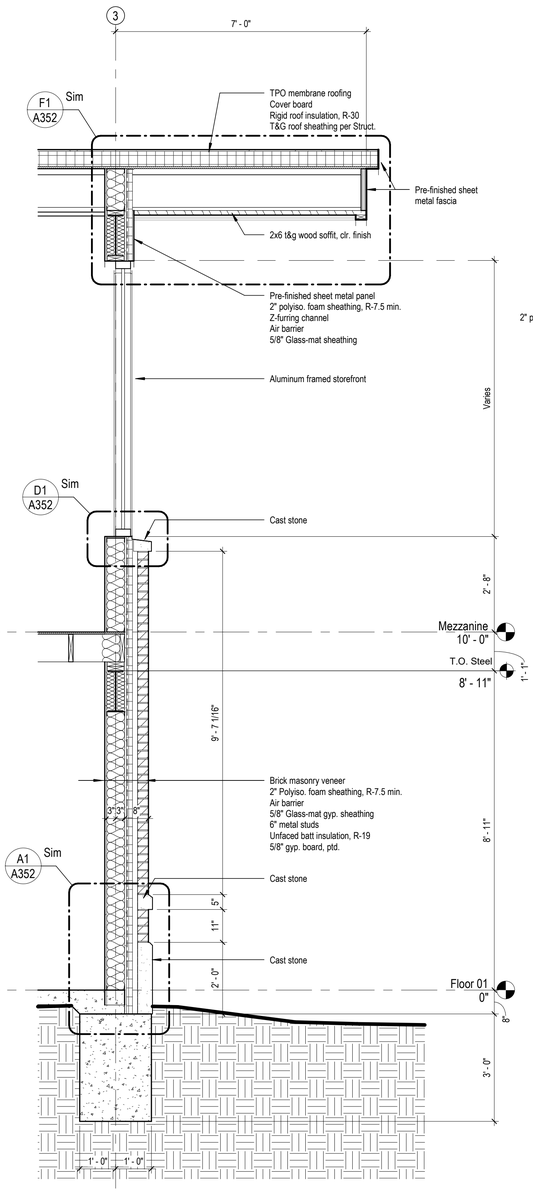
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081



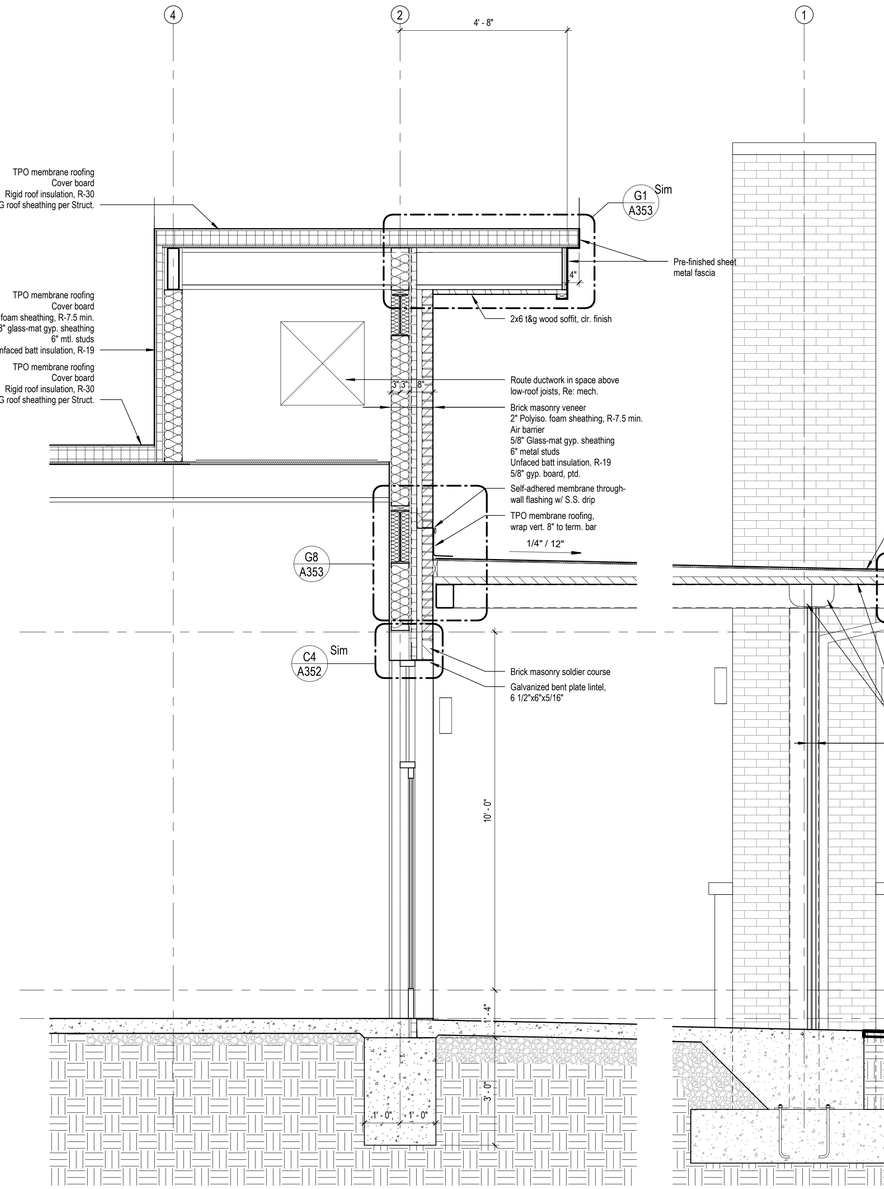
E1 Wall Section
1/2" = 1'-0"



A1 Wall Section
1/2" = 1'-0"



A4 Wall Section
1/2" = 1'-0"



A8 Wall Section
1/2" = 1'-0"

food service
TriMark Hockenbergs

10550 Barkley, Ste. 201
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mechanical, electrical, and plumbing
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structural
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STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2001007056
REGISTERED ARCHITECT
4/12/21

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021
3 Plans Review Comments	05.12.2021

Wall Sections

A302

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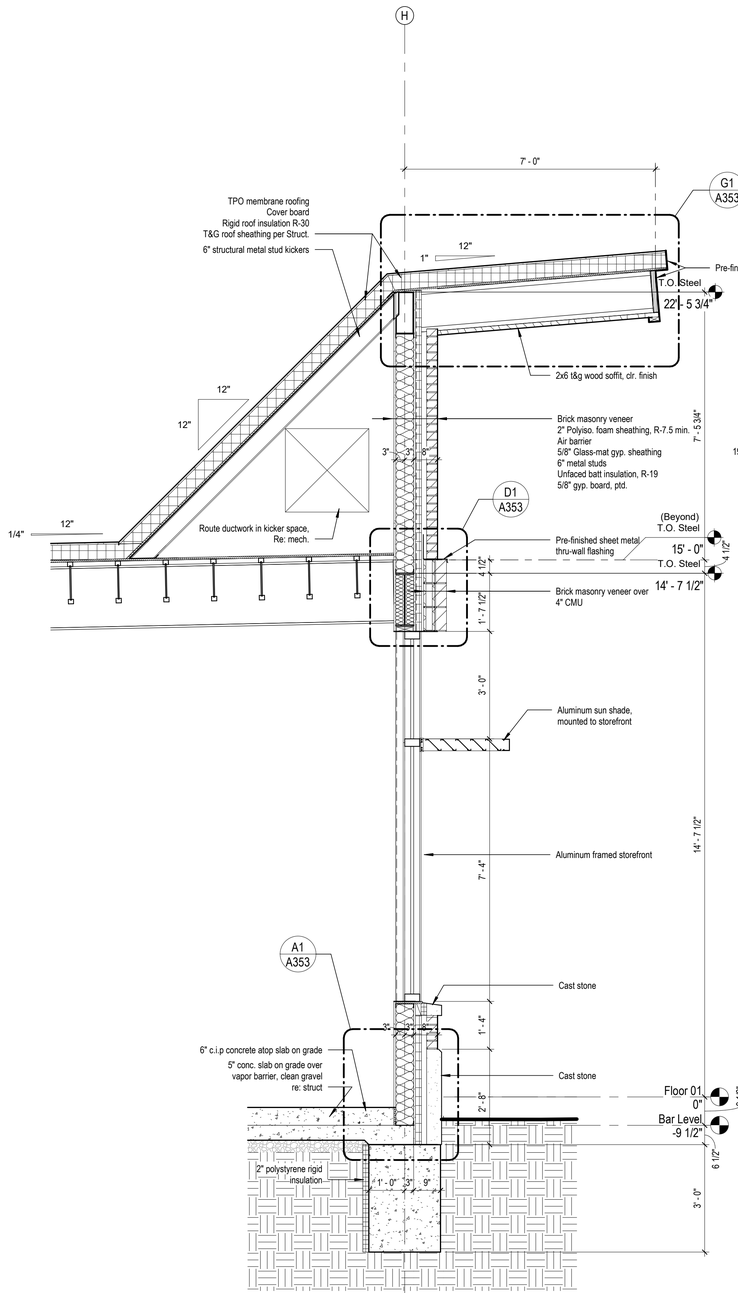
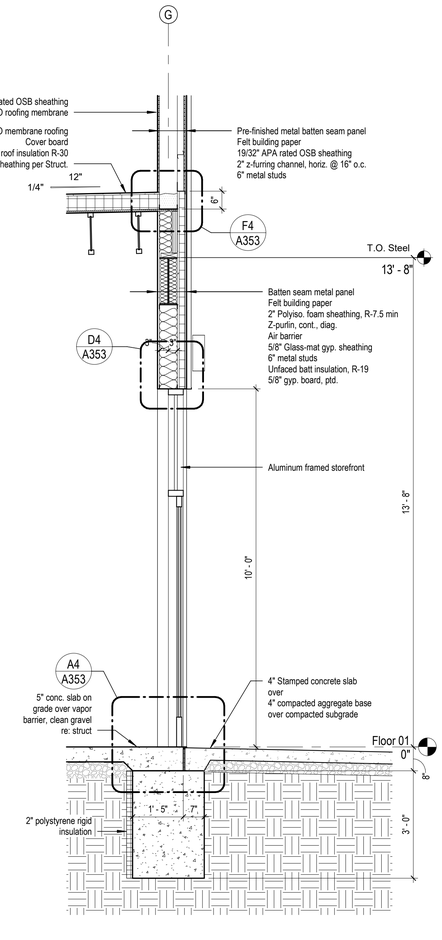
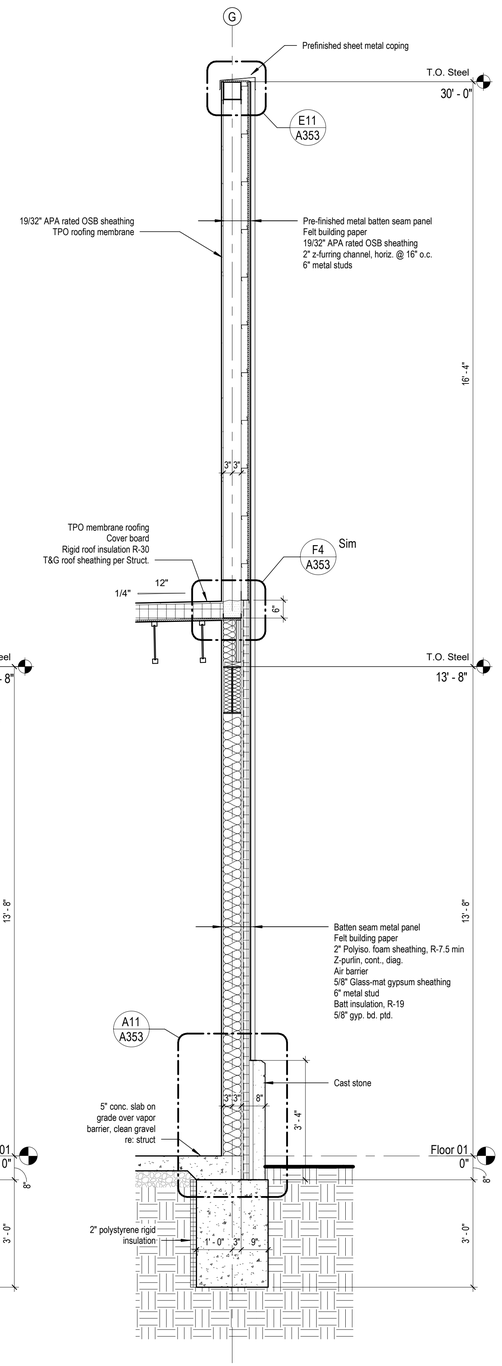


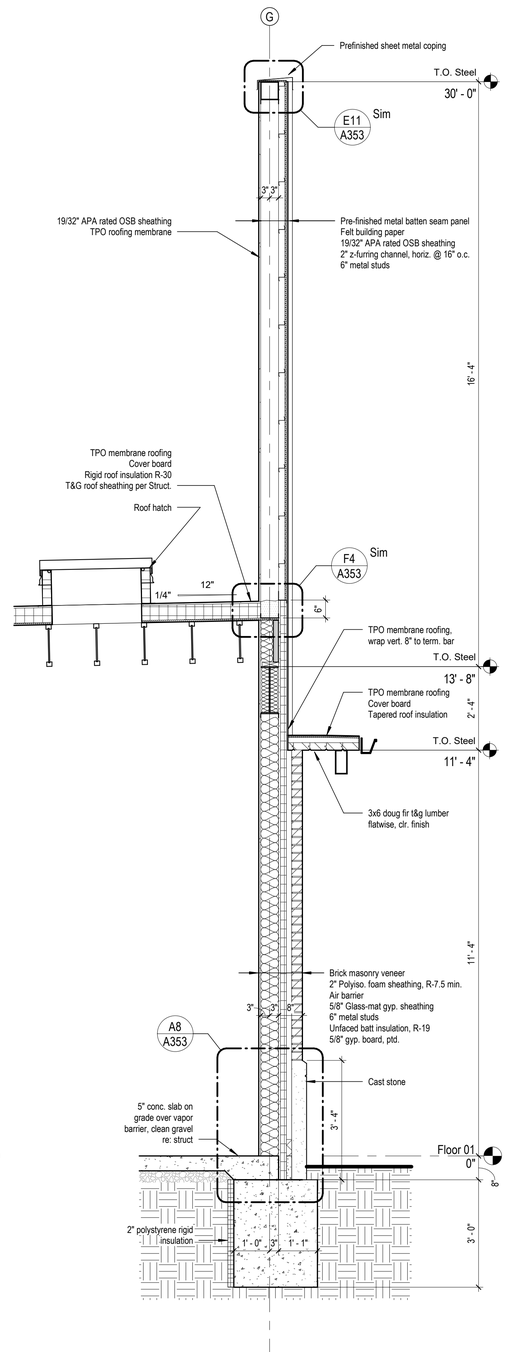
A1 Wall Section
1/2" = 1'-0"



A5 Wall Section
1/2" = 1'-0"



A8 Wall Section
1/2" = 1'-0"



A11 Wall Section
1/2" = 1'-0"

URBAN PRAIRIE
ARCHITECTURAL
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2004027055
REGISTERED ARCHITECT
April 12, 2021

food service
TriMark Hockenbergs

10550 Barkley, Ste. 201
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mechanical, electrical, and plumbing
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PROJECT NUMBER:	20-033
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1 Bid/Permit Set	04.16.2021
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3 Plans Review Comments	05.12.2021

Wall Sections

A303

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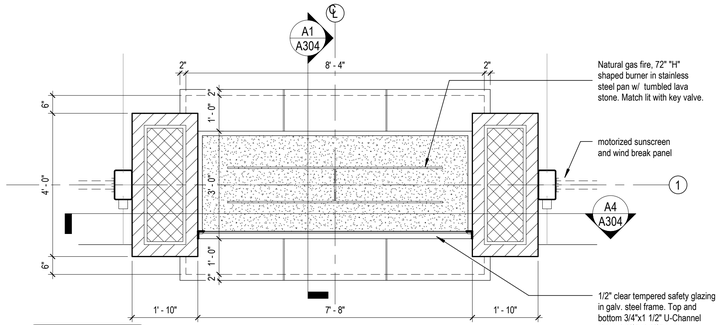
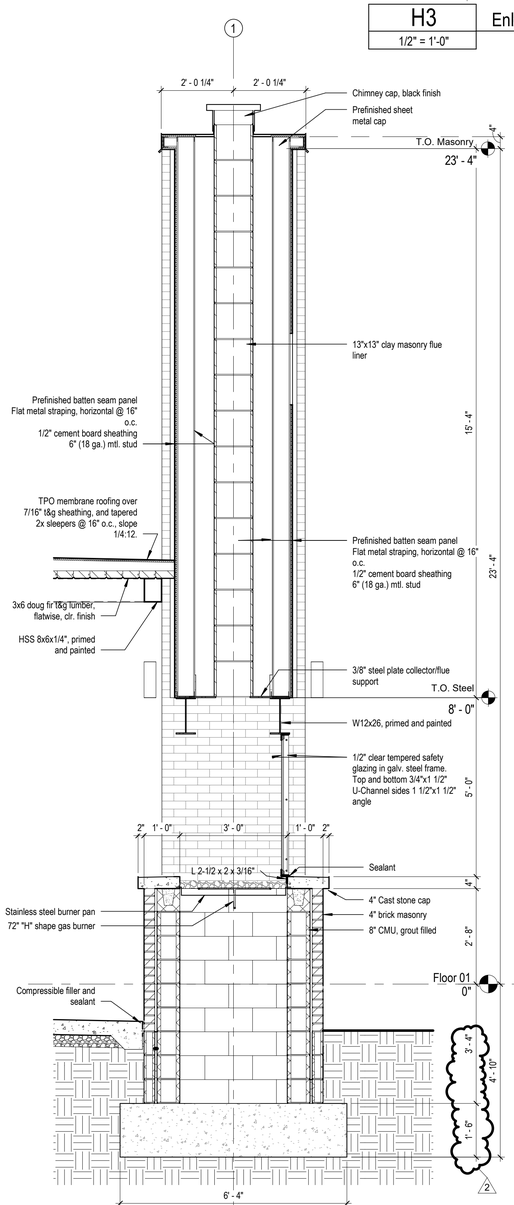
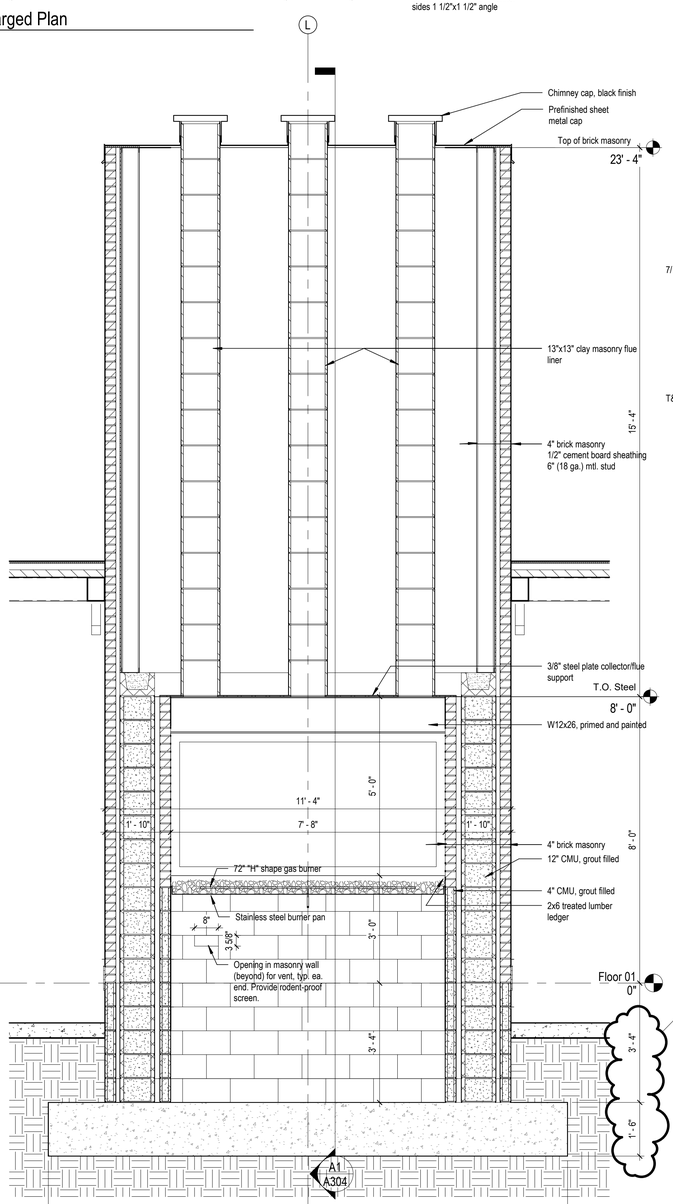


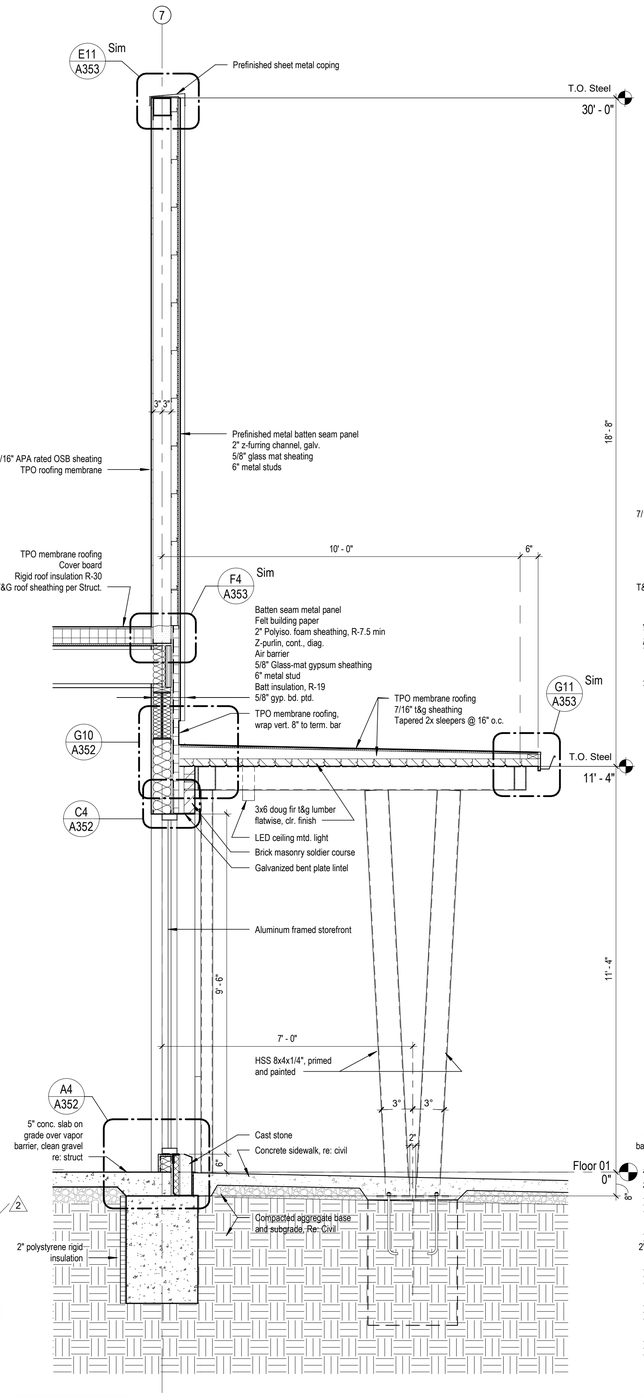
H3 Enlarged Plan
1/2" = 1'-0"



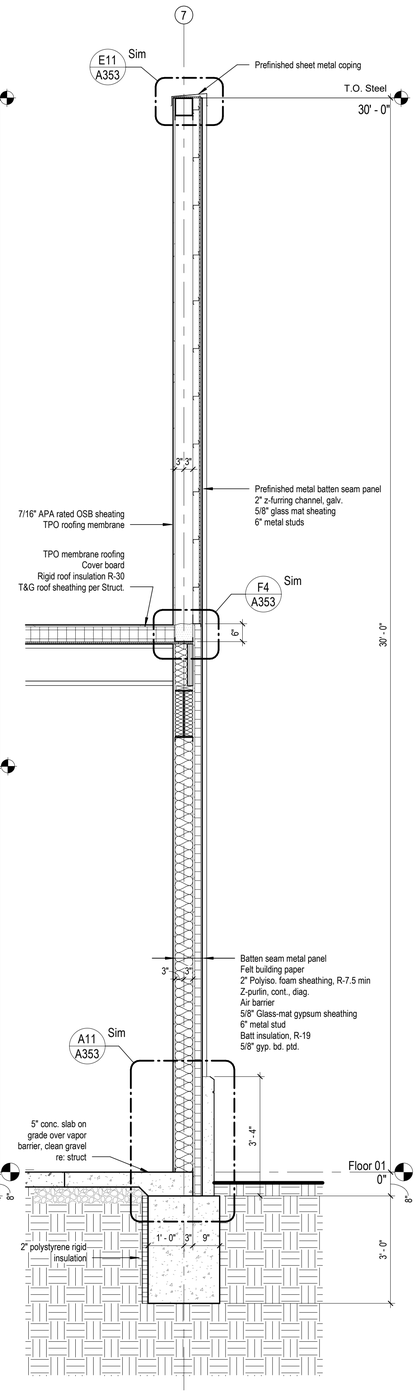
A1 Wall Section
1/2" = 1'-0"



A4 Wall Section
1/2" = 1'-0"



A8 Wall Section
1/2" = 1'-0"



A11 Wall Section
1/2" = 1'-0"

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

PAUL C. MINTO
NUMBER A-2001007056
STATE OF MISSOURI
REGISTERED ARCHITECT
4/12/2021

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Wall Sections

A304

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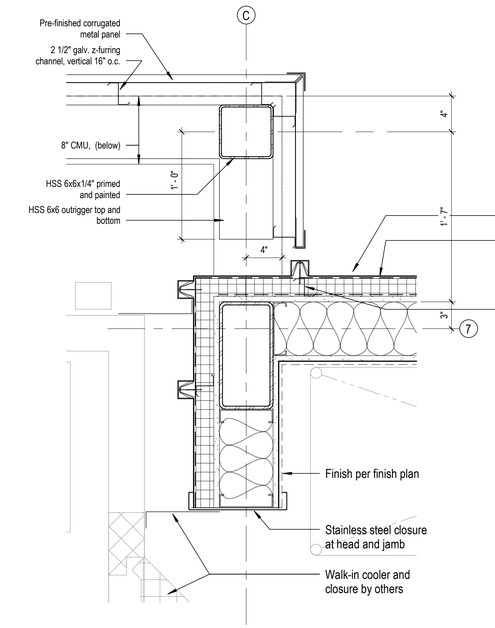
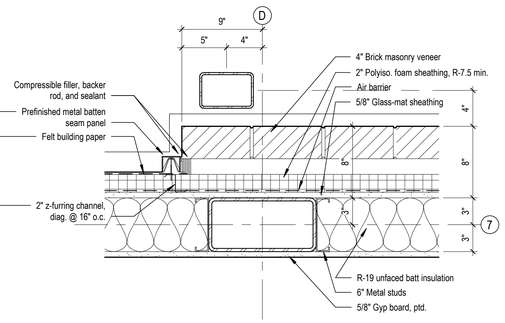
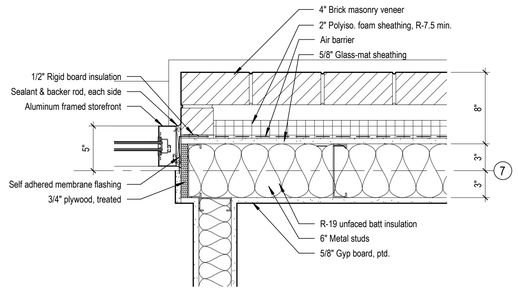


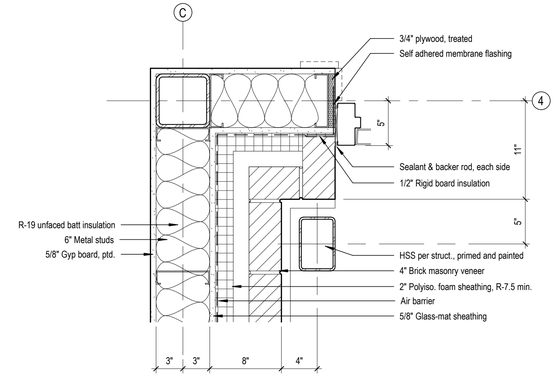
F1 Plan Detail
1 1/2" = 1'-0"



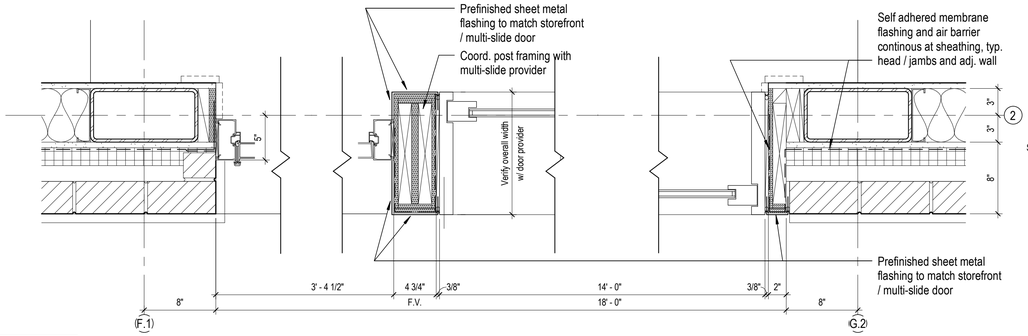
F4 Plan Detail
1 1/2" = 1'-0"



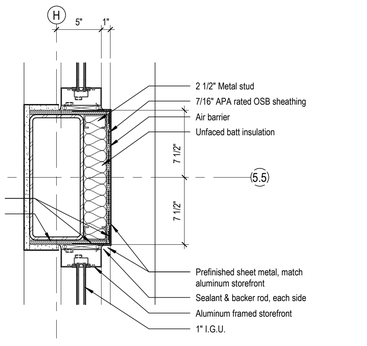
F7 Plan Detail
1 1/2" = 1'-0"



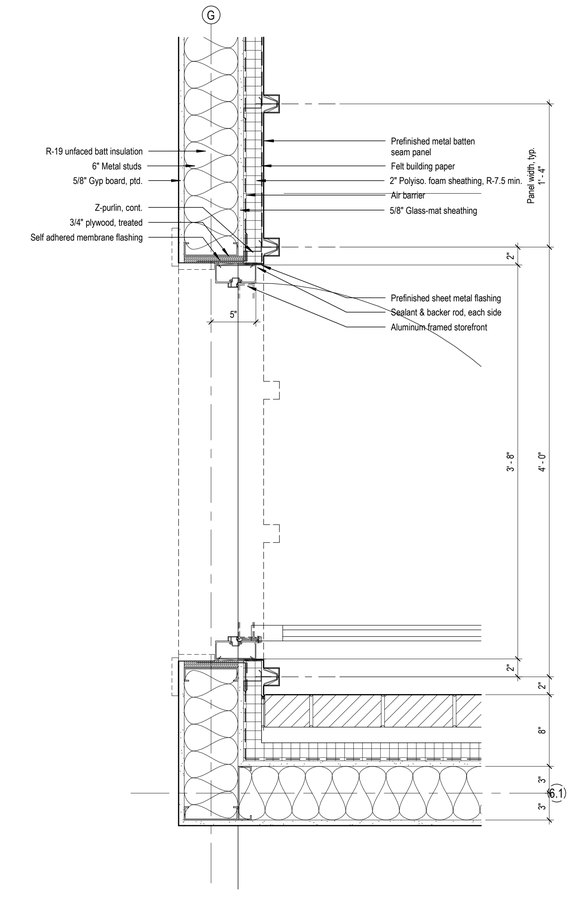
F10 Plan Detail
1 1/2" = 1'-0"



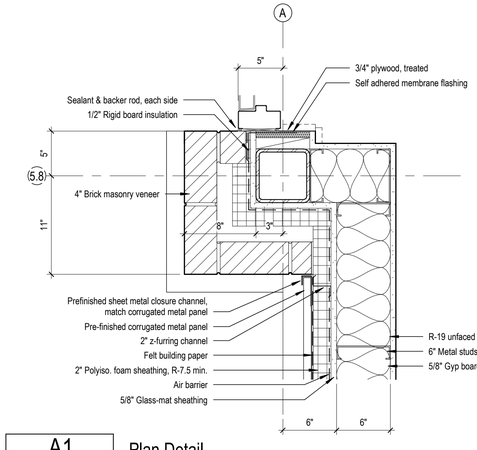
D1 Plan Detail
1 1/2" = 1'-0"



D7 Plan Detail
1 1/2" = 1'-0"



A10 Plan Detail
1 1/2" = 1'-0"



A1 Plan Detail
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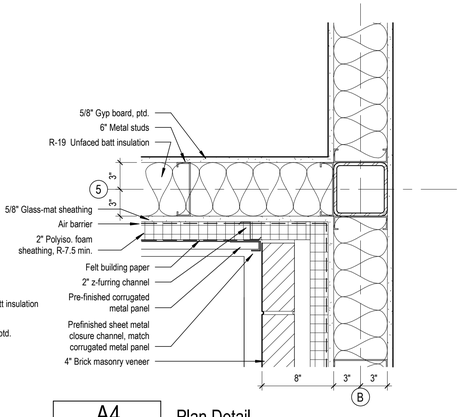

A4 Plan Detail
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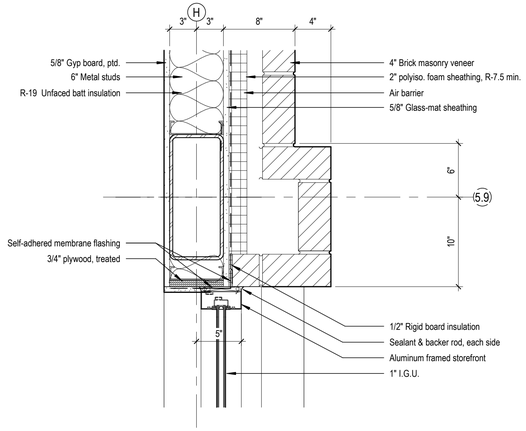

A7 Plan Detail
1 1/2" = 1'-0"

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Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2001007058
REGISTERED ARCHITECT
Apr 12, 2021

food service
TriMark Hockenbergs
10550 Barkley, Ste. 201
Overland Park, Kansas 66212
p. 913.945.2490

mechanical, electrical, and plumbing
Welch and Mitchell
4370 W. 109th St., Ste. 203
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structural
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architectural
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Kansas City, Missouri 64111
p 816.304.7416
pminto@urbanprairiekc.com
Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	9 April, 2021

REVISIONS:	DATE
1 Bid/Permit Set	04.16.2021
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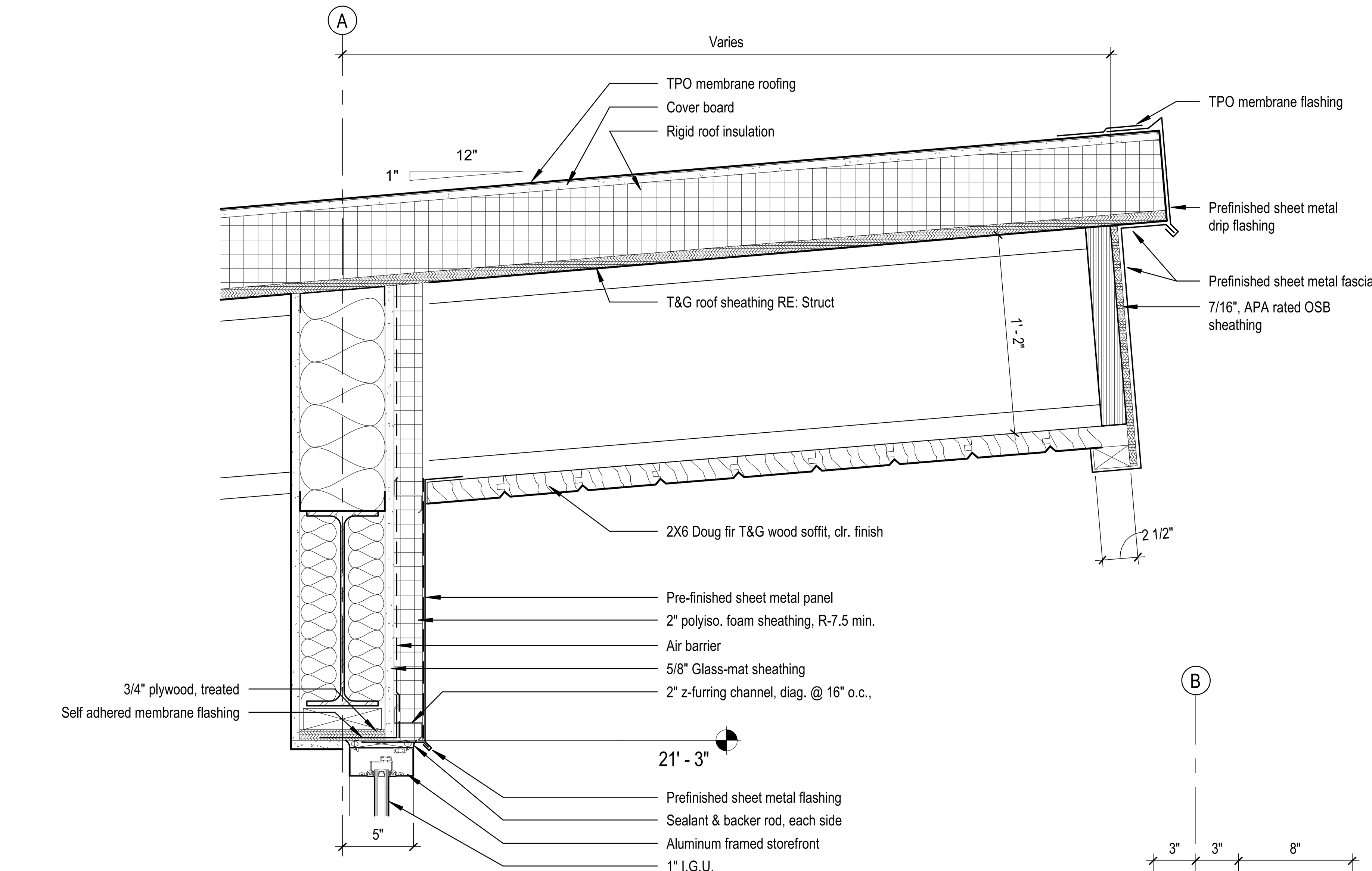
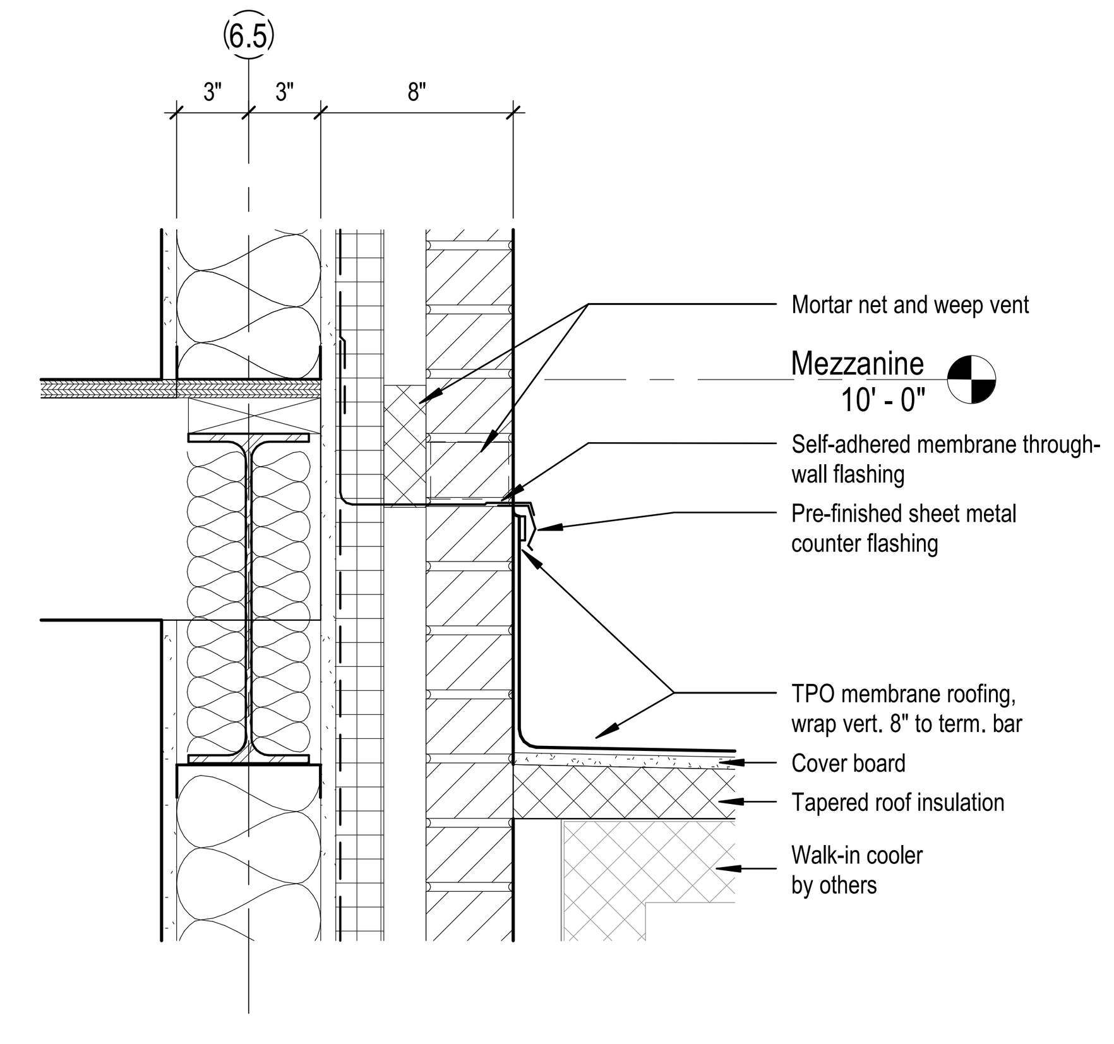
3 Plans Review Comments	05.12.2021

Exterior Details

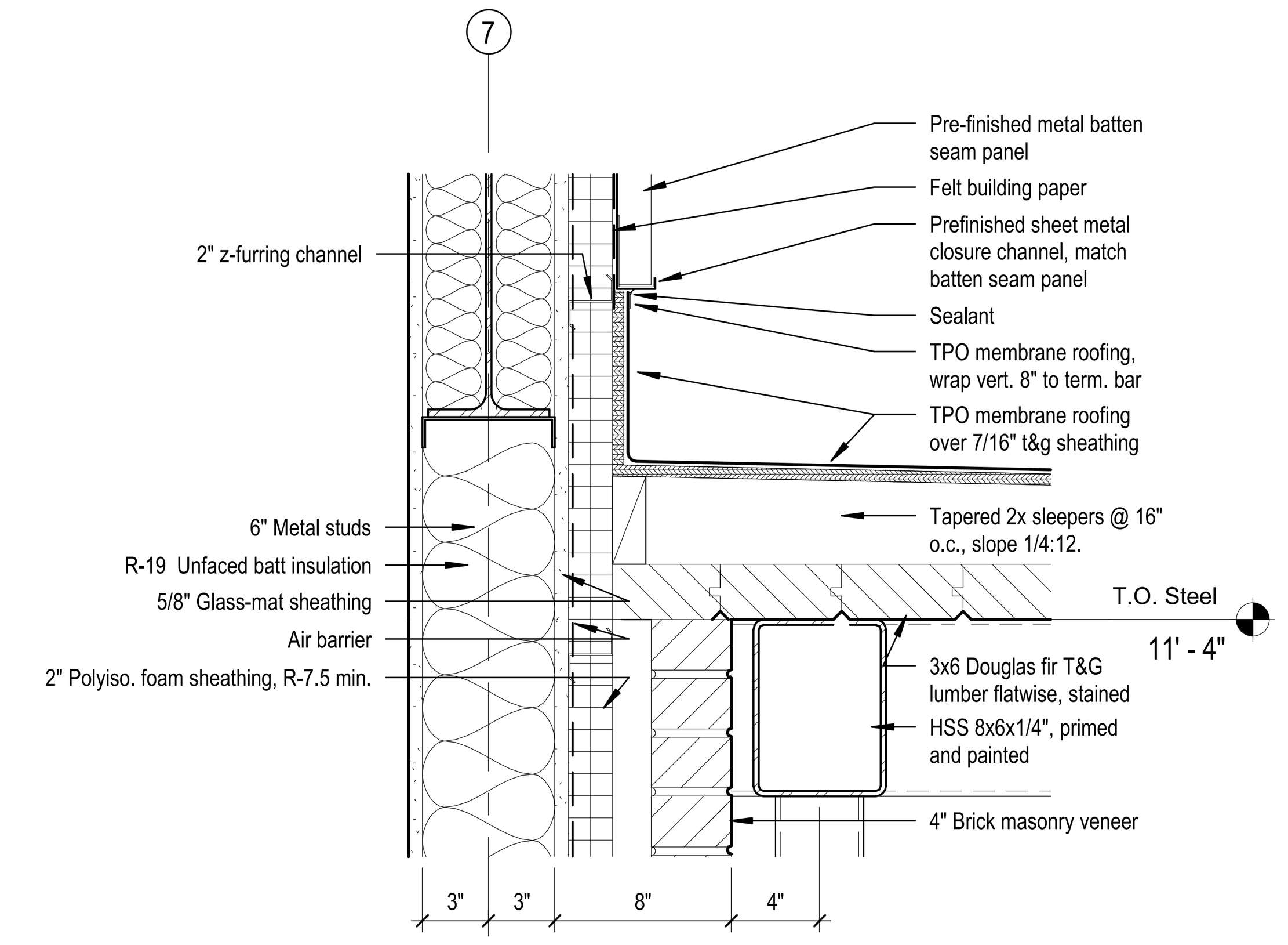
A351



F1 Section Detail
1 1/2" = 1'-0"



G7 Section Detail
1 1/2" = 1'-0"



G10 Section Detail
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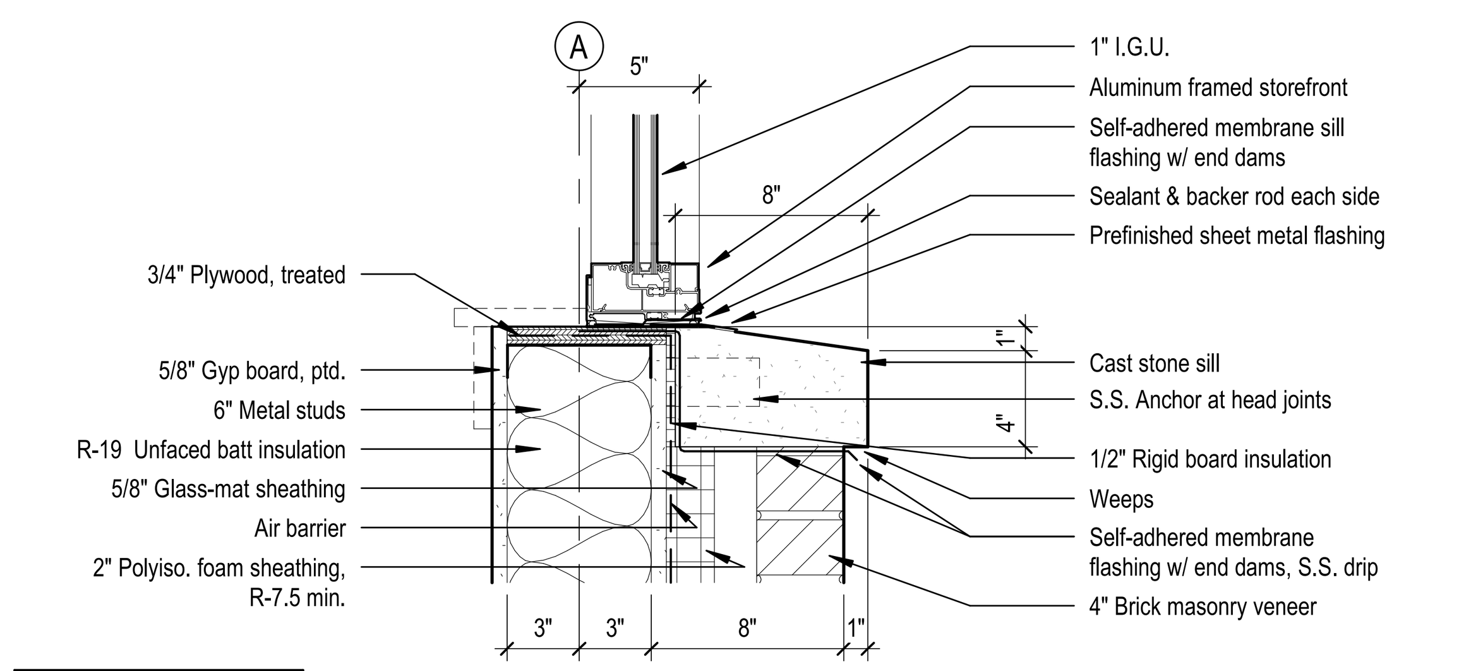
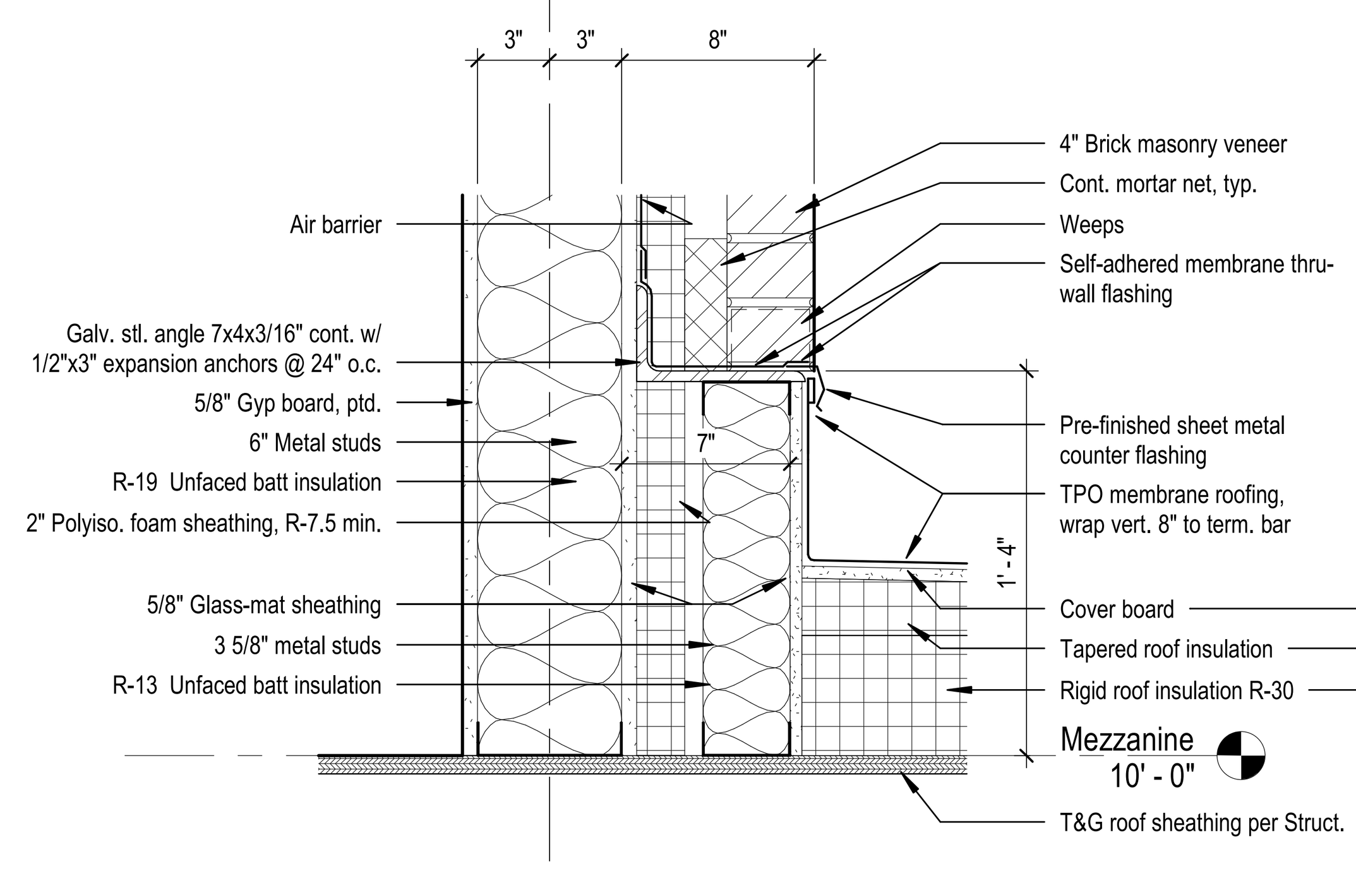


D1 Section Detail
1 1/2" = 1'-0"



D4 Section Detail
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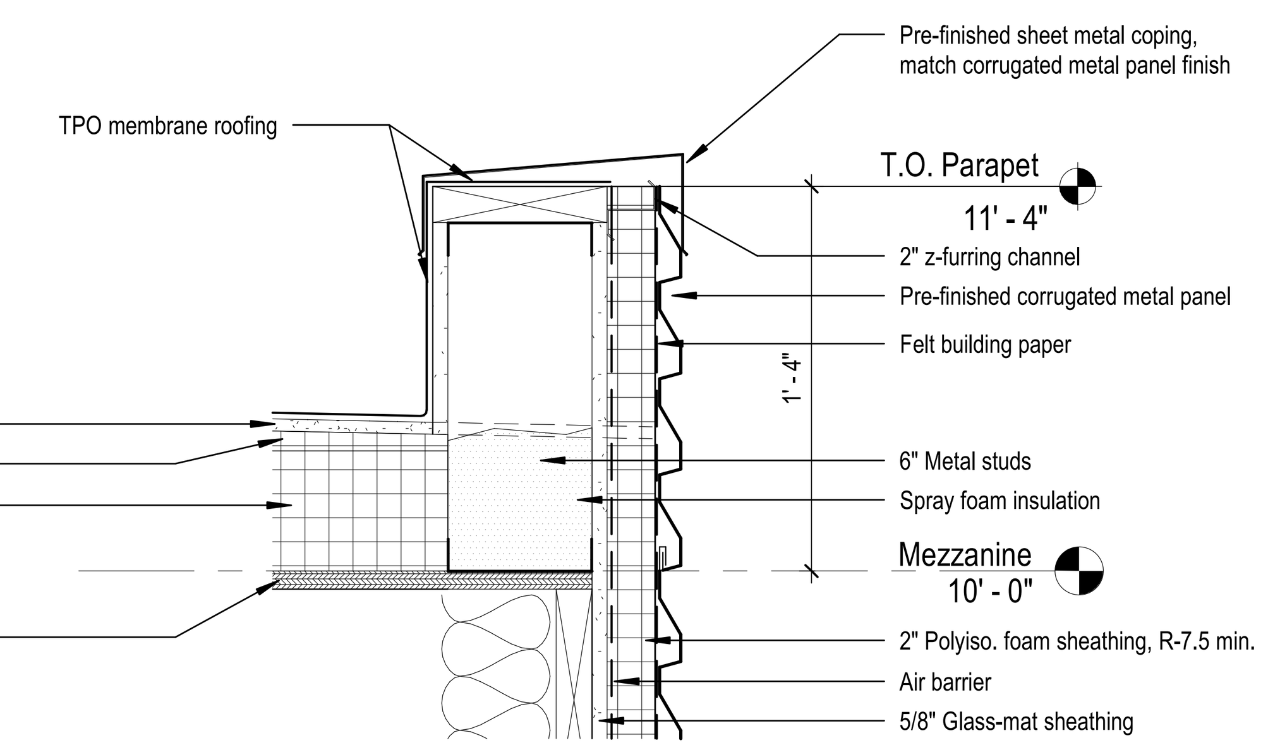

D7 Section Detail
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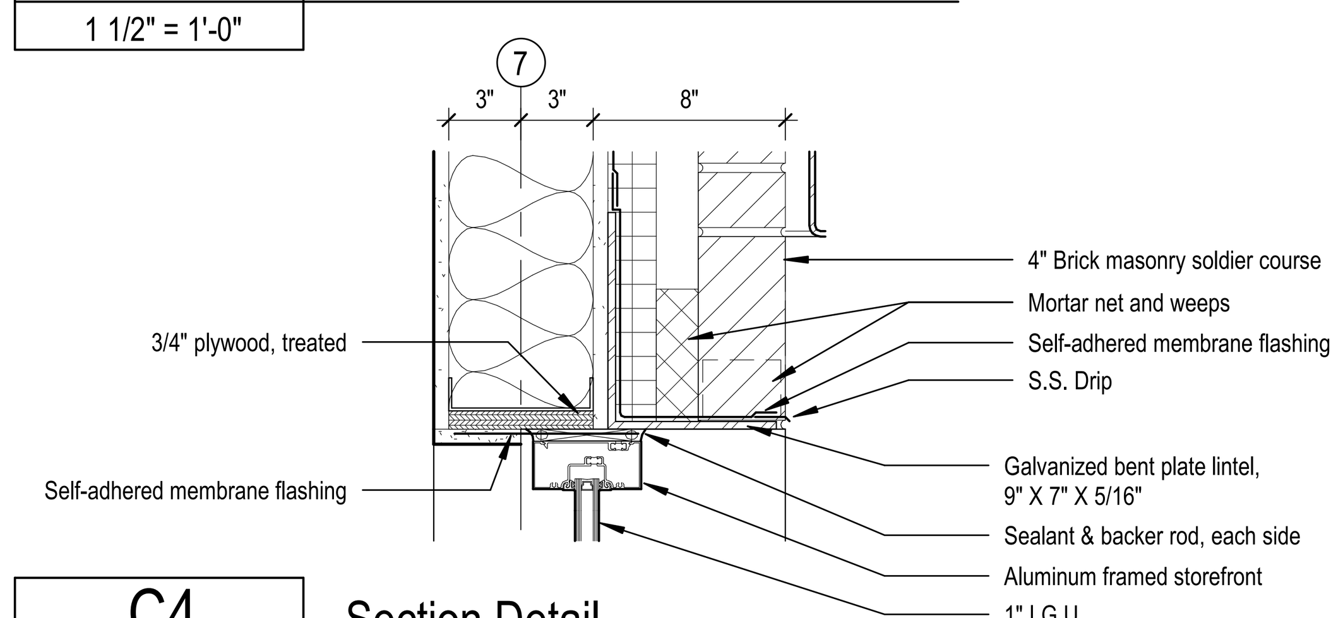
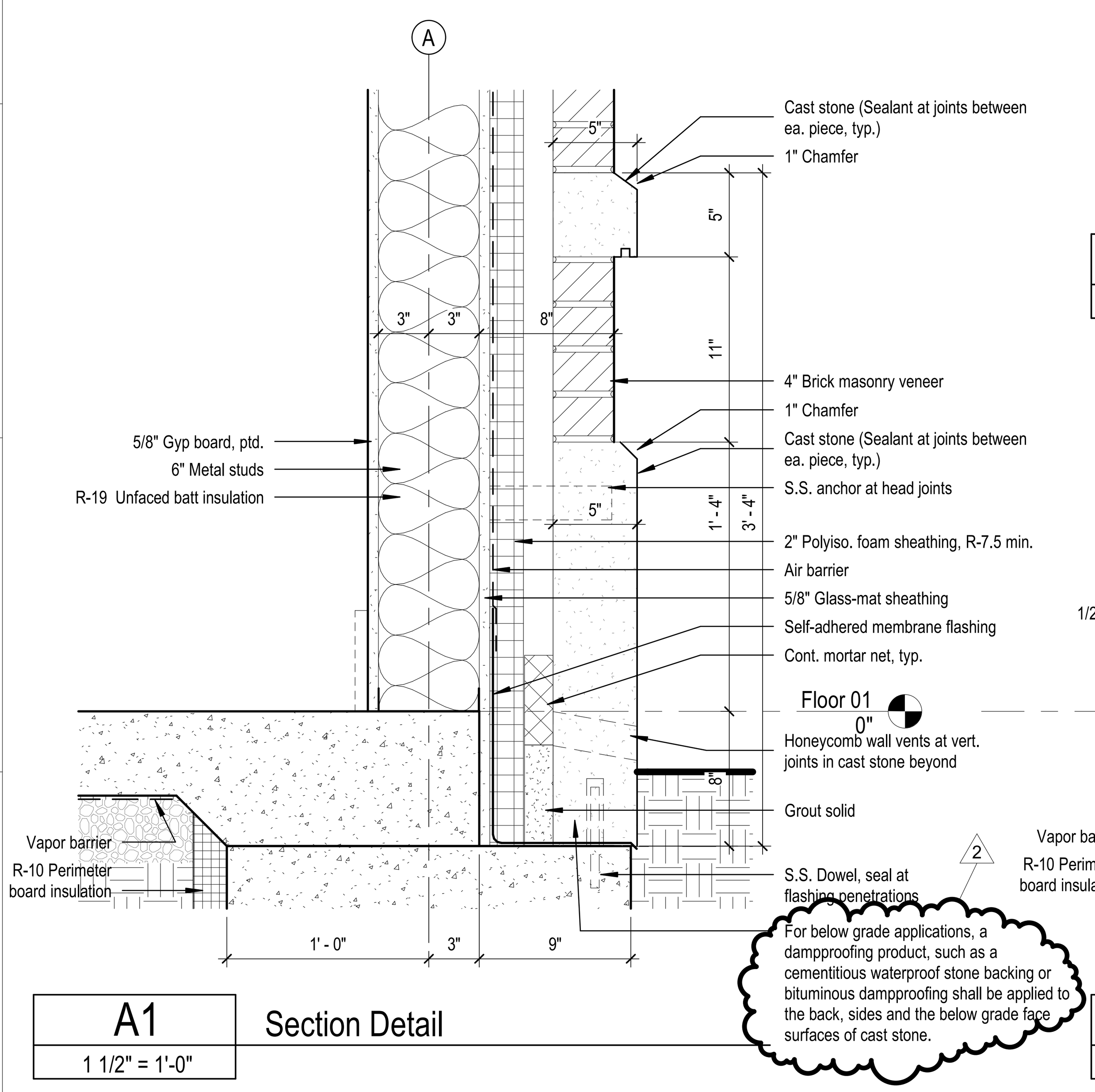


C4 Section Detail
1 1/2" = 1'-0"



A1 Section Detail
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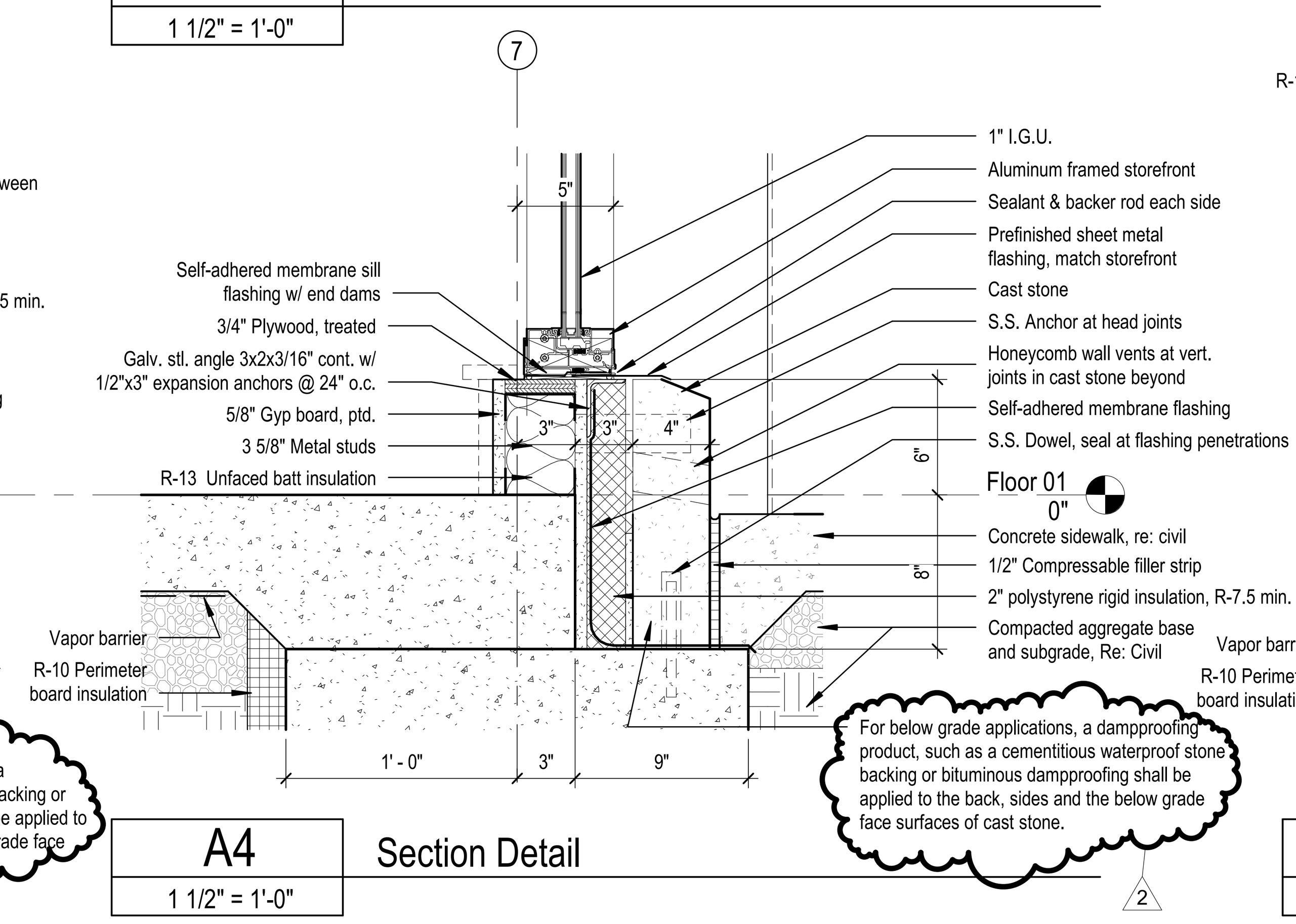

A4 Section Detail
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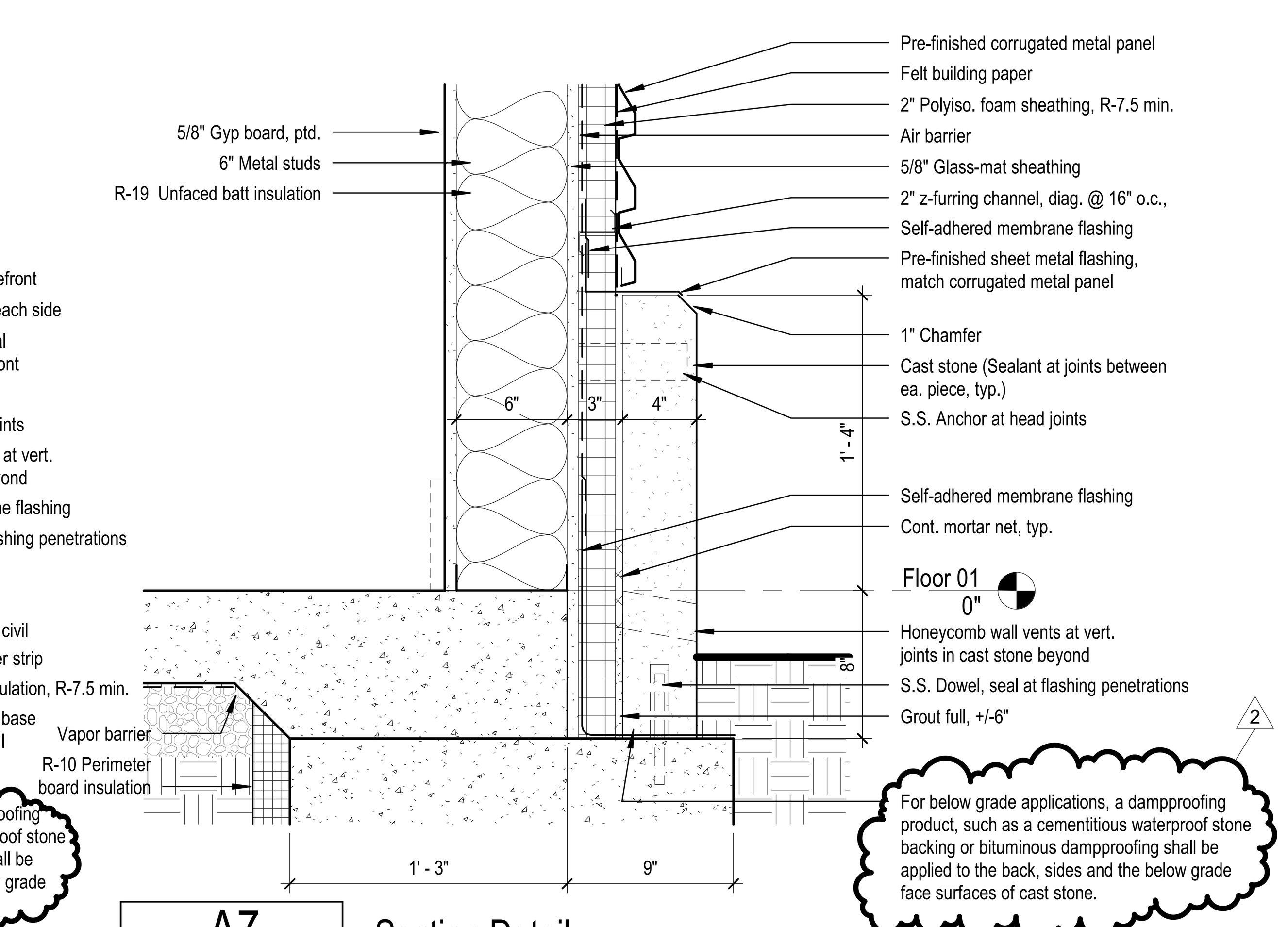

A7 Section Detail
1 1/2" = 1'-0"

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2001007056
April 12, 2021

food service
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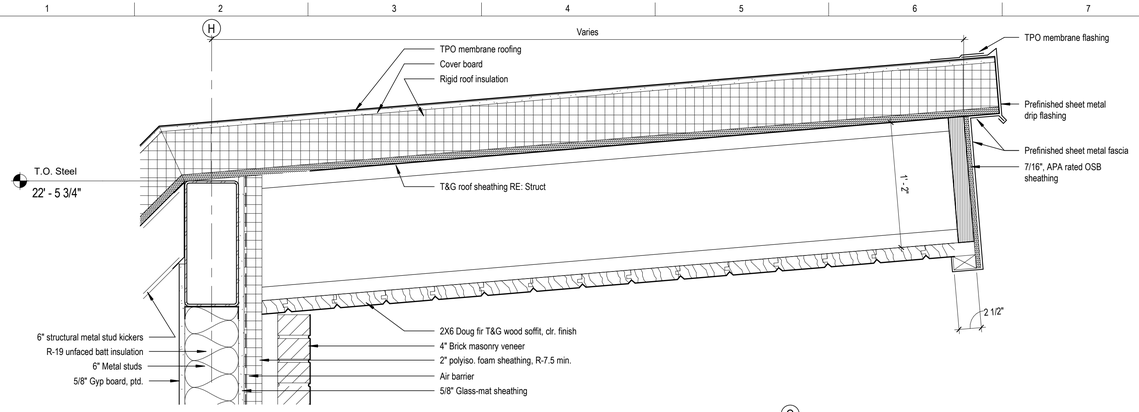
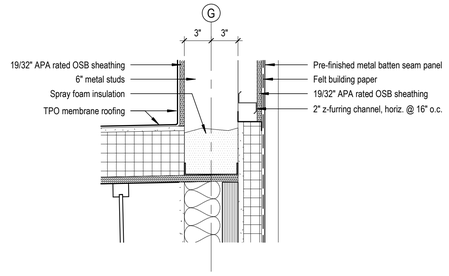
Exterior Details

A352



G1 Section Detail
1 1/2" = 1'-0"



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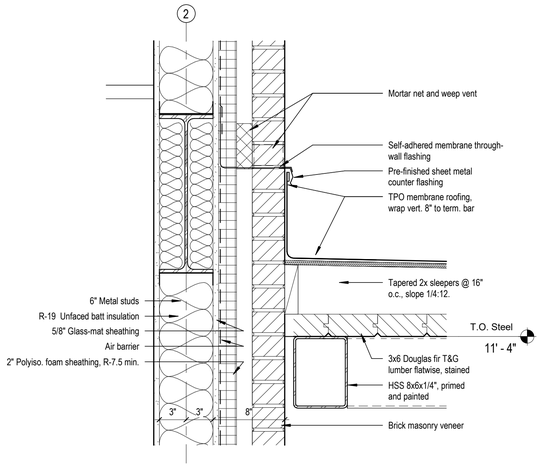
1 1/2" = 1'-0"



G8 Section Detail
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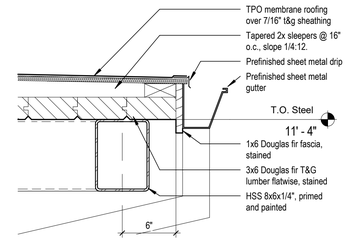

G11 Section Detail
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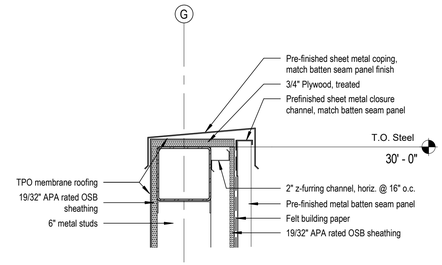

E11 Section Detail
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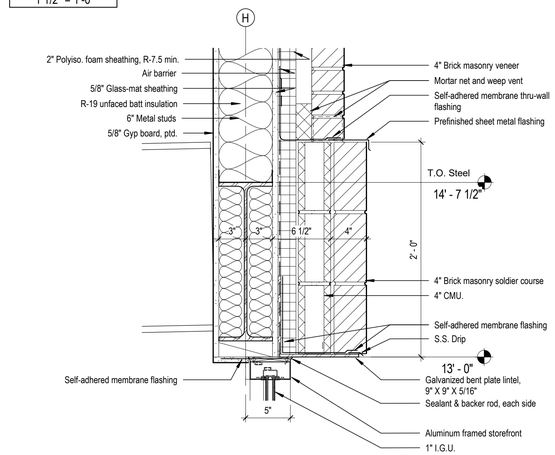
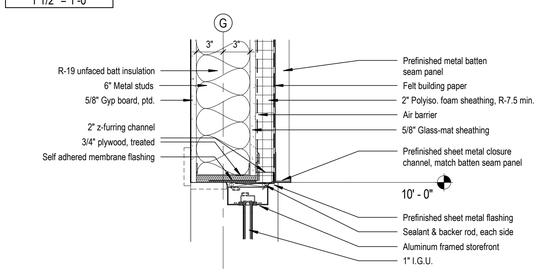
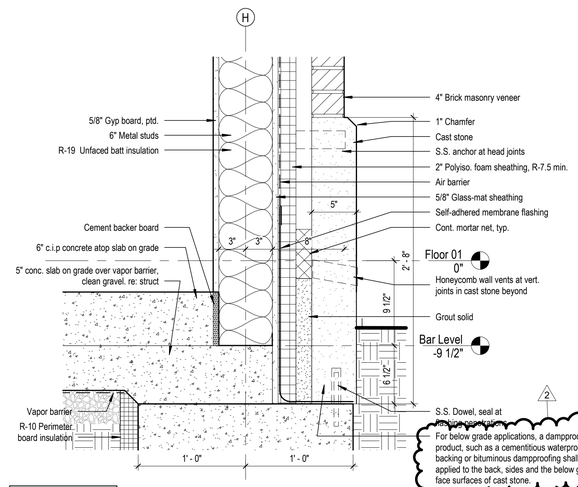


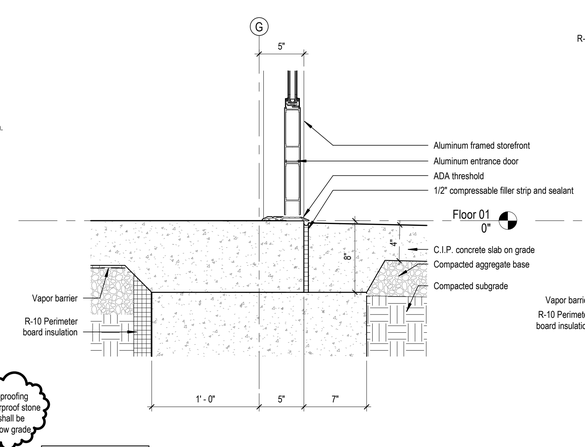
D1 Section Detail
1 1/2" = 1'-0"



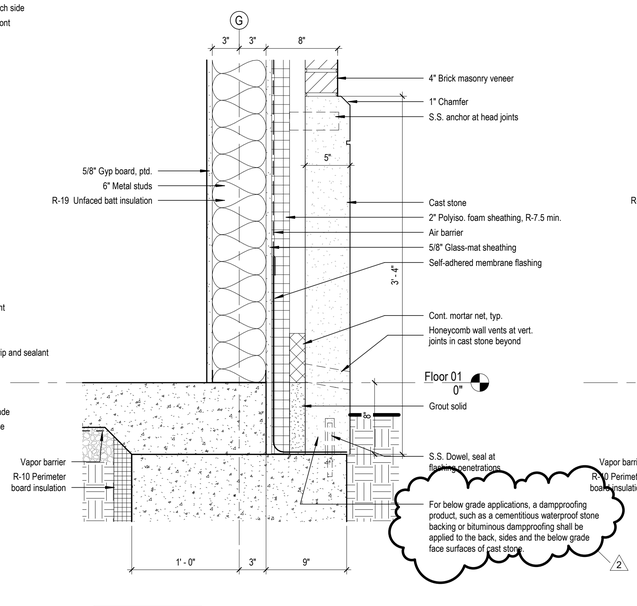
D4 Section Detail
1 1/2" = 1'-0"



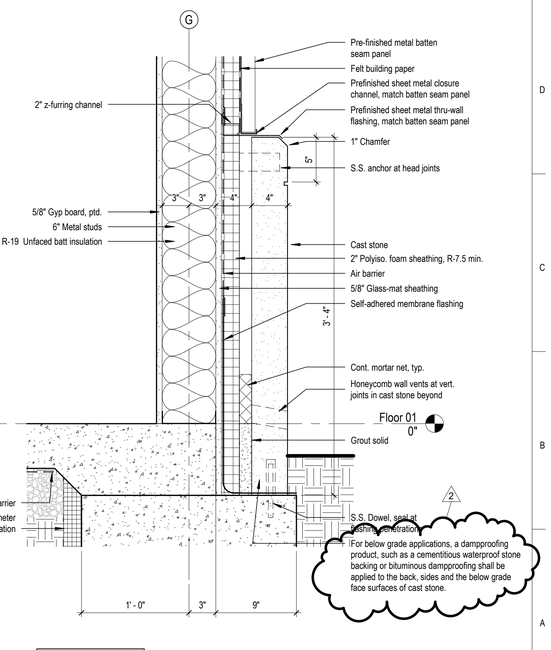
A1 Section Detail
1 1/2" = 1'-0"



A4 Section Detail
1 1/2" = 1'-0"



A8 Section Detail
1 1/2" = 1'-0"



A11 Section Detail
1 1/2" = 1'-0"

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2010007056
REGISTERED ARCHITECT
SEAL
Apr 12, 2021

food service
TriMark Hockenbergs
10550 Barkley, Ste. 201
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mechanical, electrical, and plumbing
Welch and Mitchell
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pminto@urbanprairiekc.com
Missouri Certificate of Authority: #

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Exterior Details

A353

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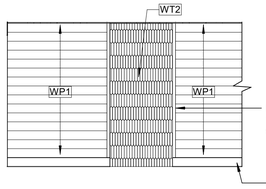
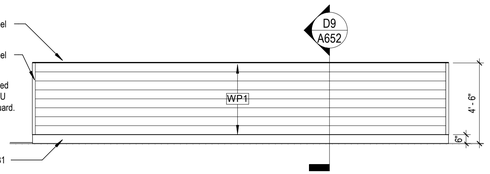
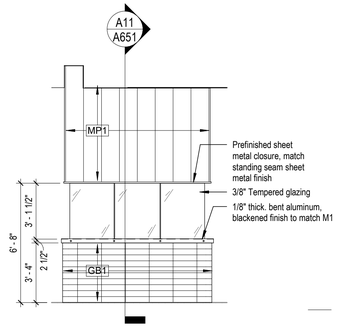


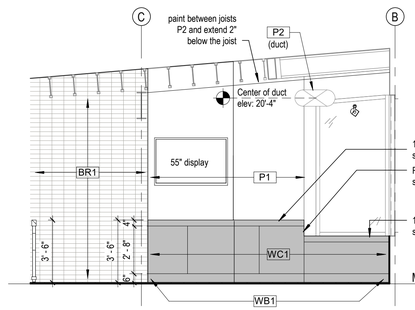
G1 — Elevation @ Bathroom
1/4" = 1'-0"



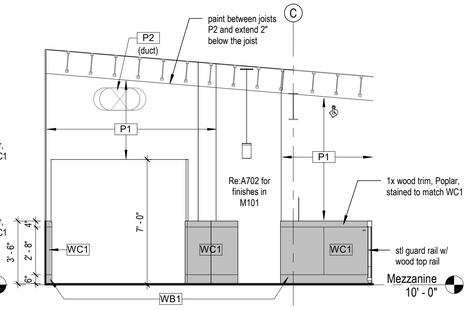
G4 — Elevation @ Partial Height Wall
1/4" = 1'-0"



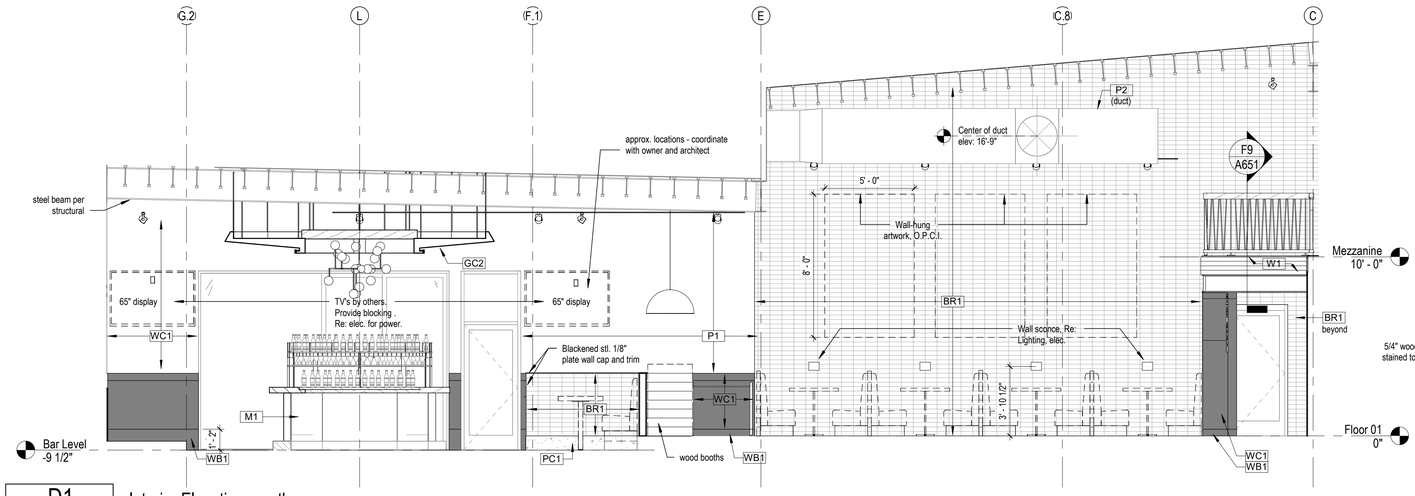
G6 — Elevation @ Grill
1/4" = 1'-0"



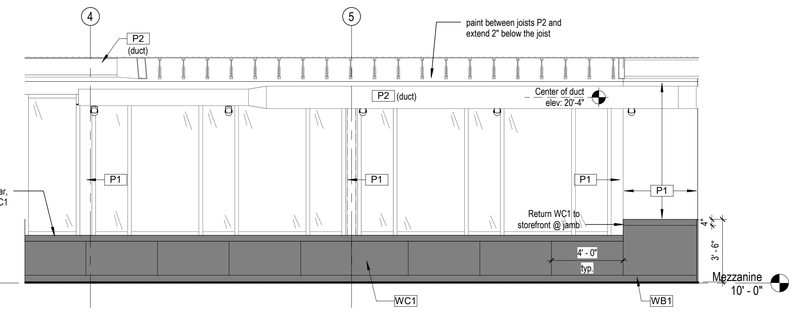
G8 — Elevation @ Mezzanine, south
1/4" = 1'-0"



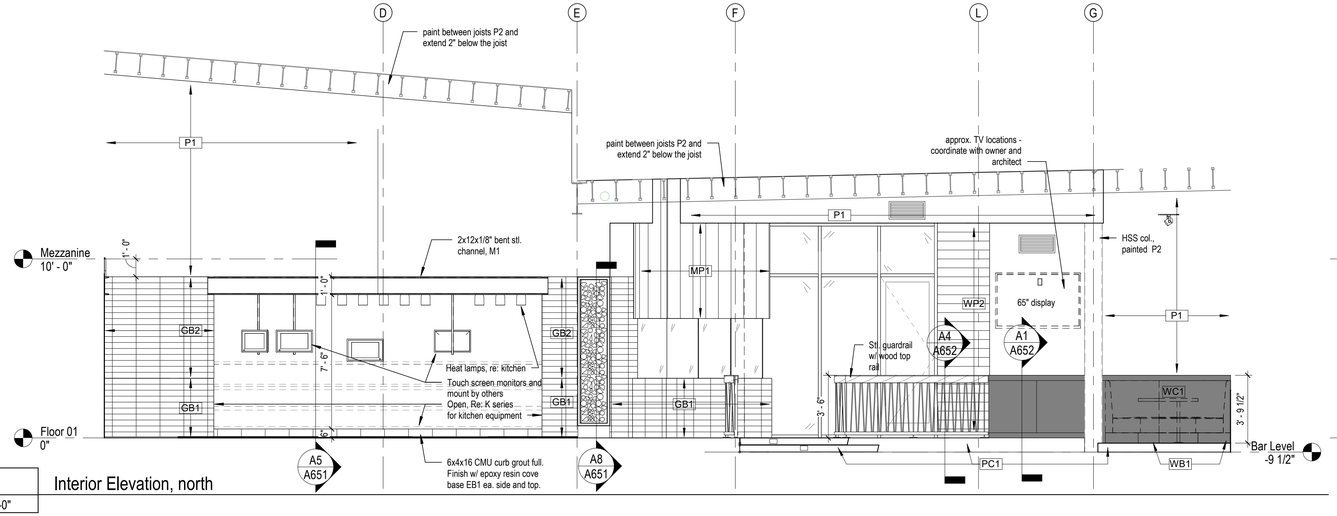
G11 — Elevation - Mezzanine wait station
1/4" = 1'-0"



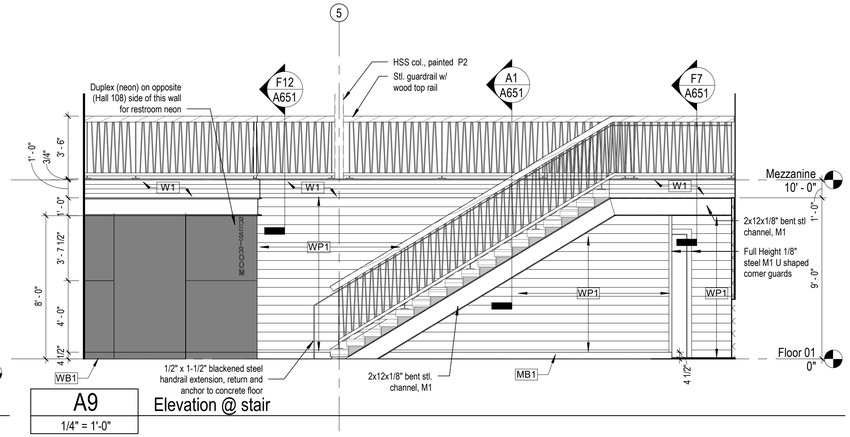
D1 — Interior Elevation, south
1/4" = 1'-0"



D8 — Elevation @ Mezzanine, west
1/4" = 1'-0"



A1 — Interior Elevation, north
1/4" = 1'-0"



A9 — Elevation @ stair
1/4" = 1'-0"

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
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April 12, 2021

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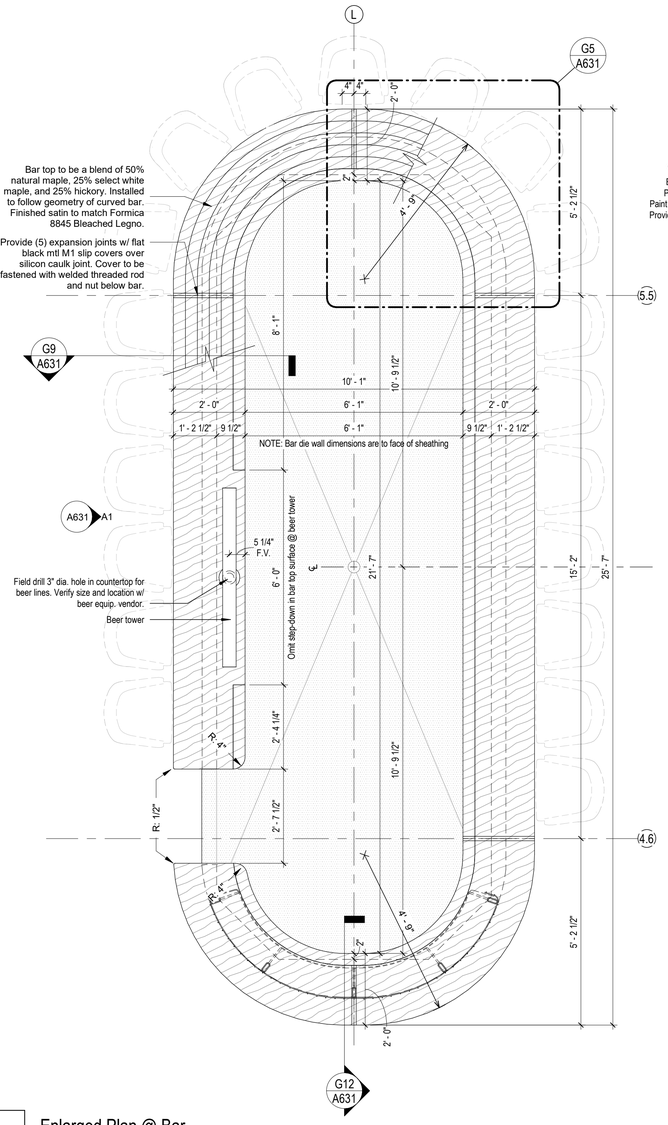
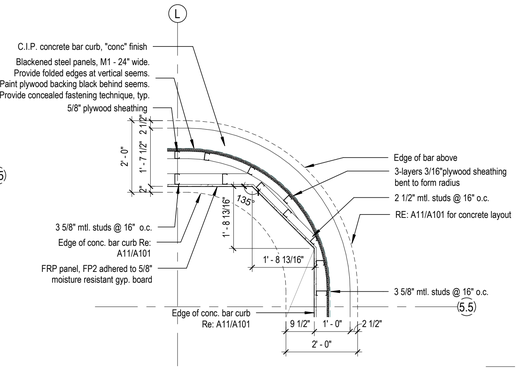
Interior Elevations

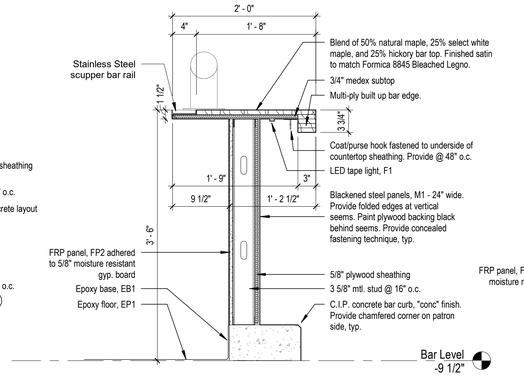
A601



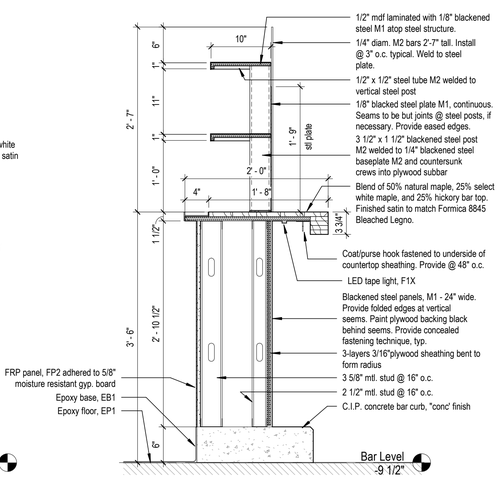
C1
1/2" = 1'-0"
Enlarged Plan @ Bar



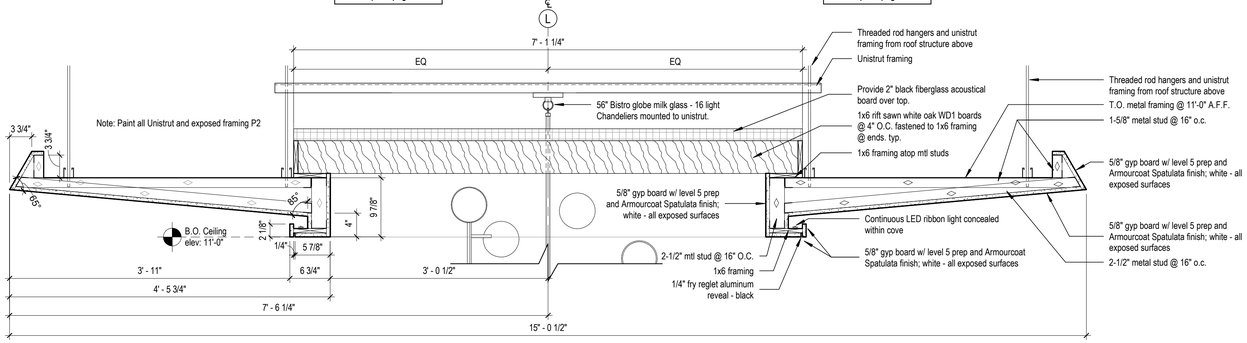
G5
1/2" = 1'-0"
Plan Detail @ Bar Framing



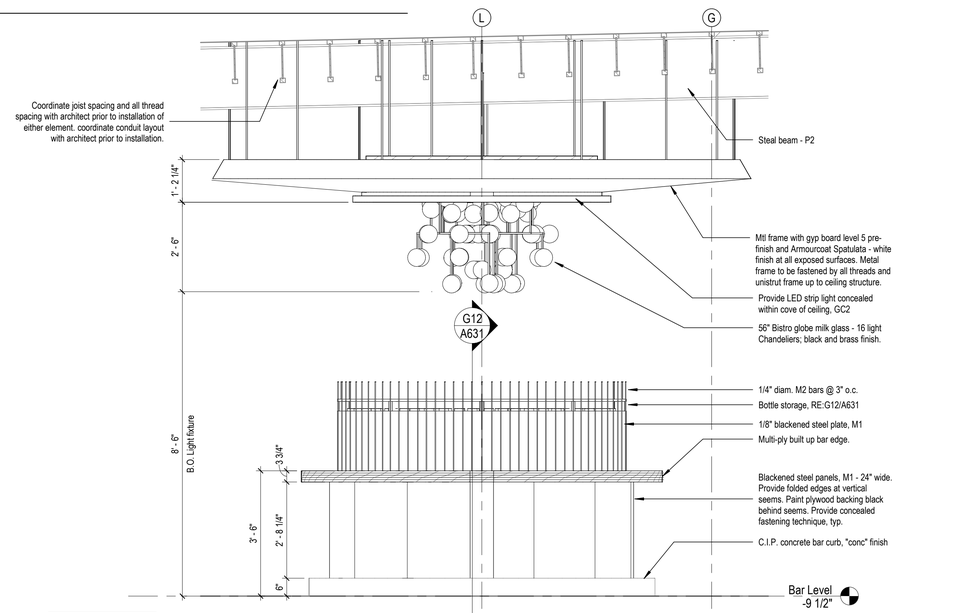
G9
1" = 1'-0"
Section Detail @ Bar



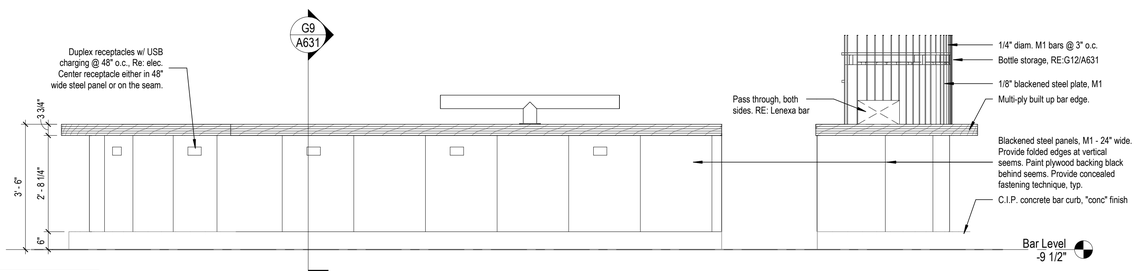
G12
1" = 1'-0"
Detail @ Bottle Shelves



E5
1" = 1'-0"
Detail @ Bar Ceiling



A8
1/2" = 1'-0"
Elevation@ Bar end



A1
1/2" = 1'-0"
Elevation @ Bar

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Tenant - Details - Bar

A631

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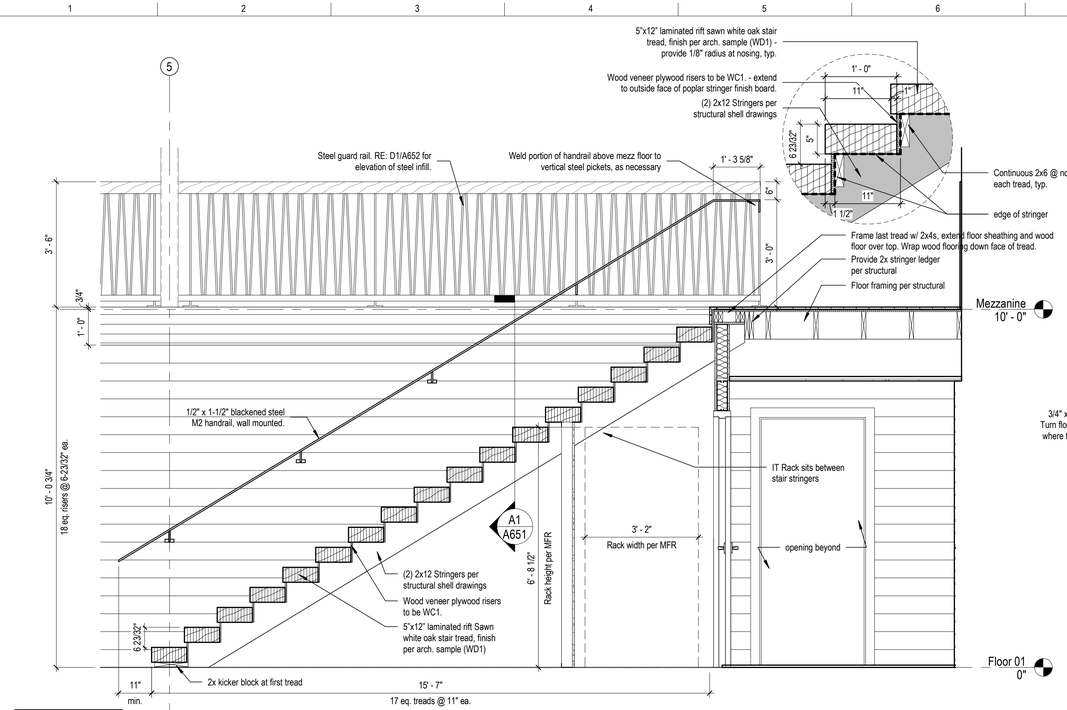
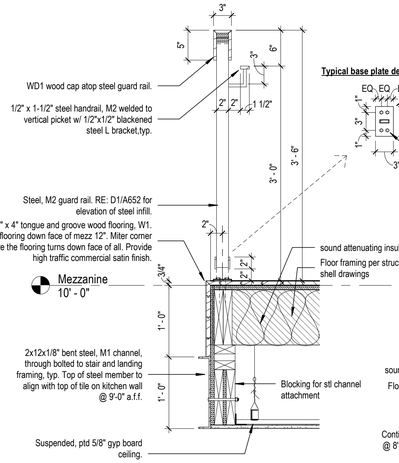
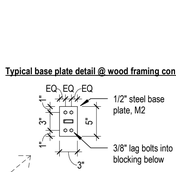


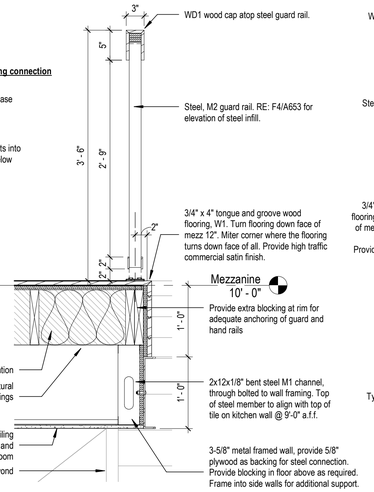
F1 Section @ Stair
1/2" = 1'-0"



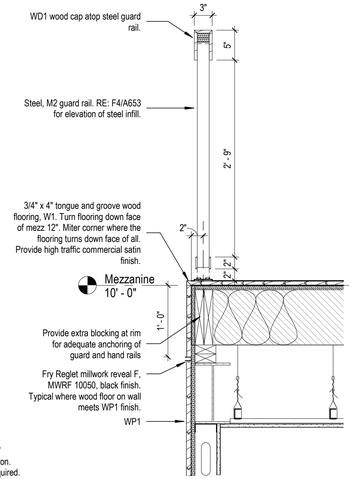
F7 Deail @ Mezz, landing
1" = 1'-0"

Typical base plate detail @ wood framing connection

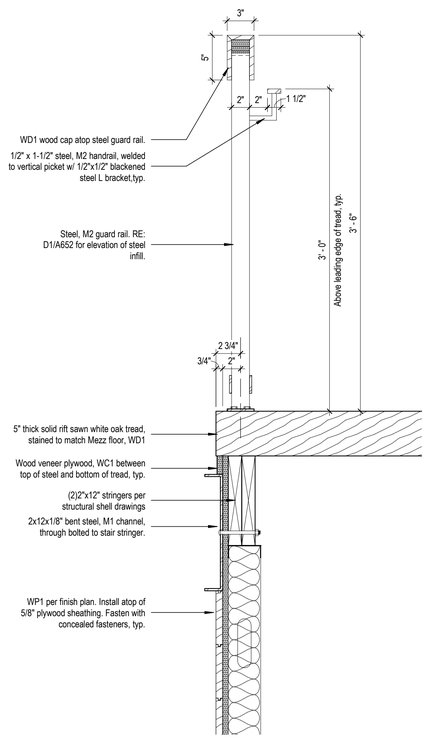




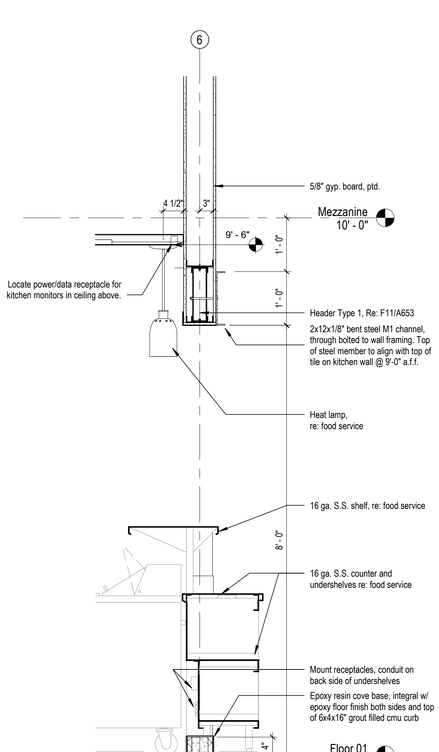
F9 Detail @ Mezz, steel channel
1" = 1'-0"



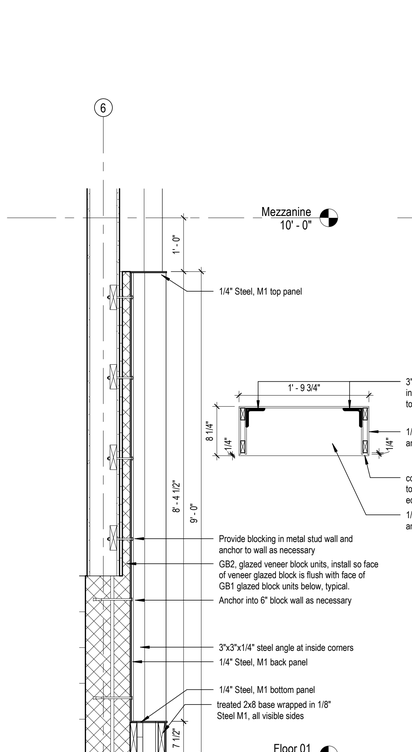
F12 Detail @ Mezz, typ.
1" = 1'-0"



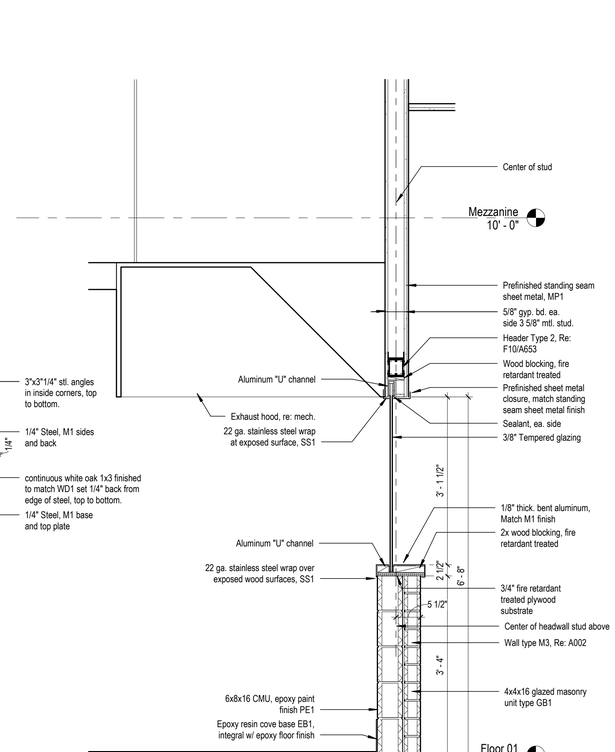
A1 Detail @ Stair, rail
1 1/2" = 1'-0"



A5 Detail @ Service window
3/4" = 1'-0"



A8 Detail @ Interior wood storage
3/4" = 1'-0"



A11 Detail @ Grill window
3/4" = 1'-0"

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

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Tenant - Details - Interior

A651

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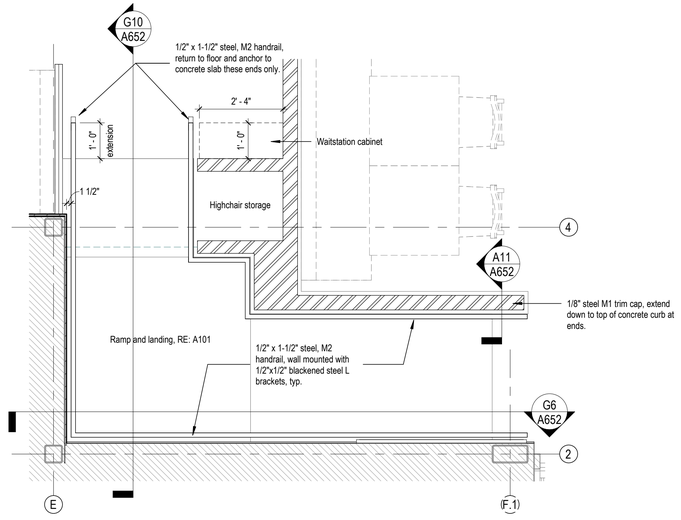
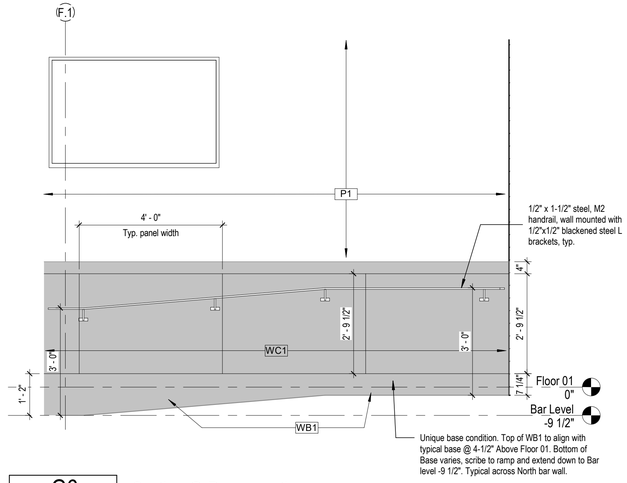
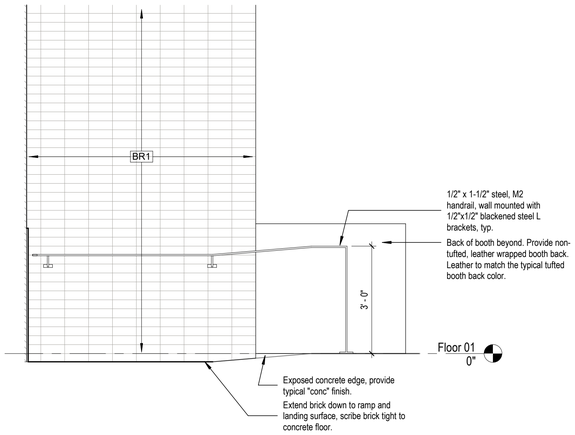


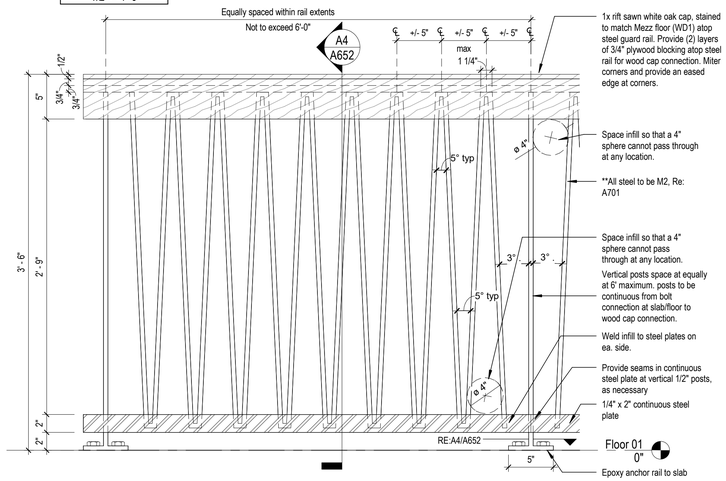
G1 — Enlarged Plan @ Ramp
1/2" = 1'-0"



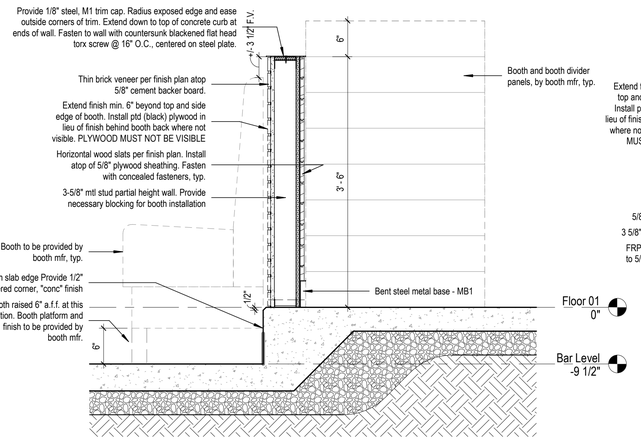
G6 — Section @ Ramp, north
1/2" = 1'-0"



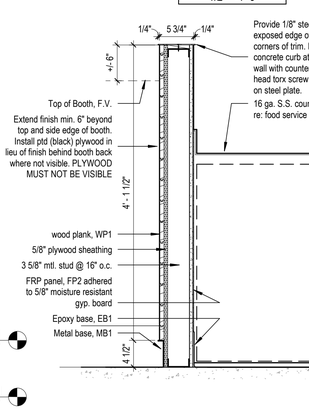
G10 — Section @ Ramp, east
1/2" = 1'-0"



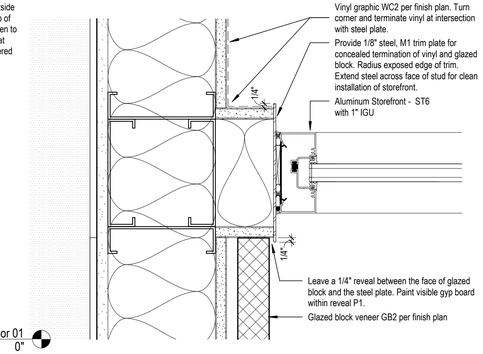
D1 — Detail Elevation @ Guard rail
1 1/2" = 1'-0"



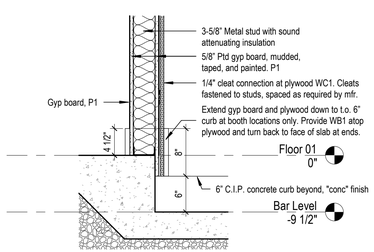
D6 — Section @ Bar banquette
1" = 1'-0"



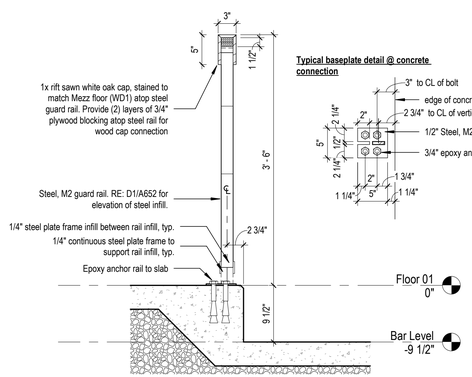
D9 — Section @ Partial height wall
1" = 1'-0"



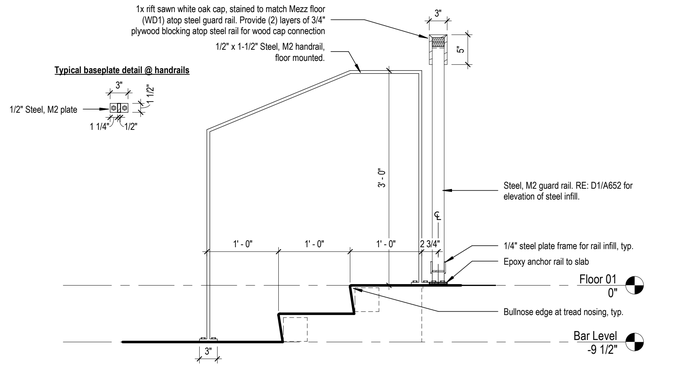
D12 — Plan Detail @ Storefront
3" = 1'-0"



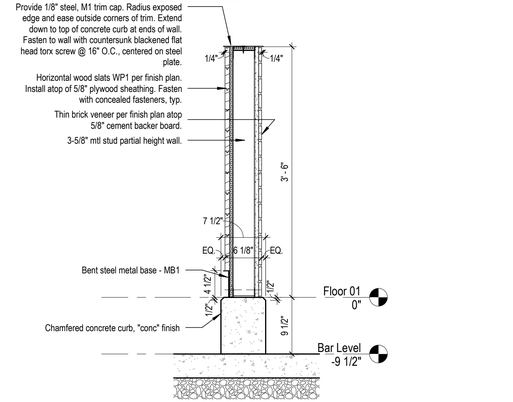
A1 — Section @ Bar base
1" = 1'-0"



A4 — Section @ Guard rail
1" = 1'-0"



A7 — Section @ Hand rail
1" = 1'-0"



A11 — Section @ Bar curb
1" = 1'-0"

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PAUL C. MINTO
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Tenant - Details - Interior

A652

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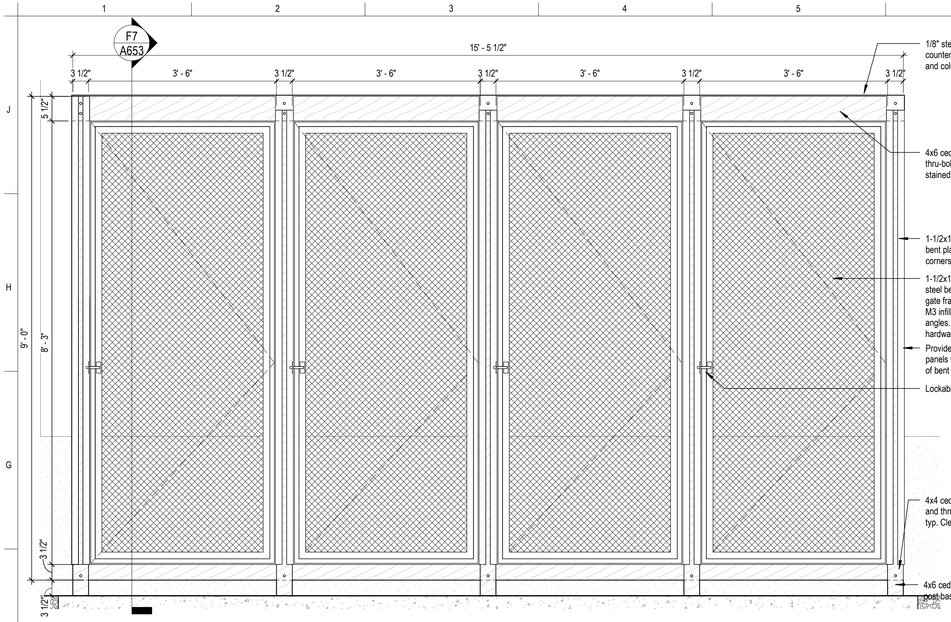
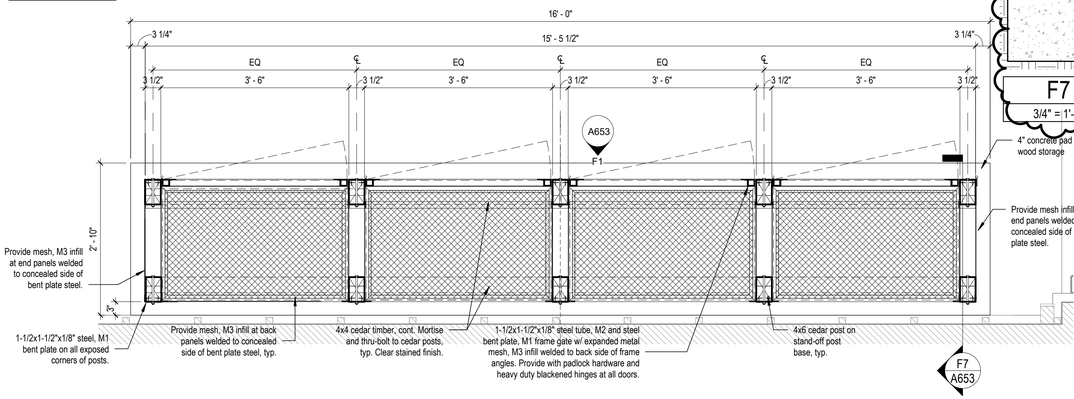
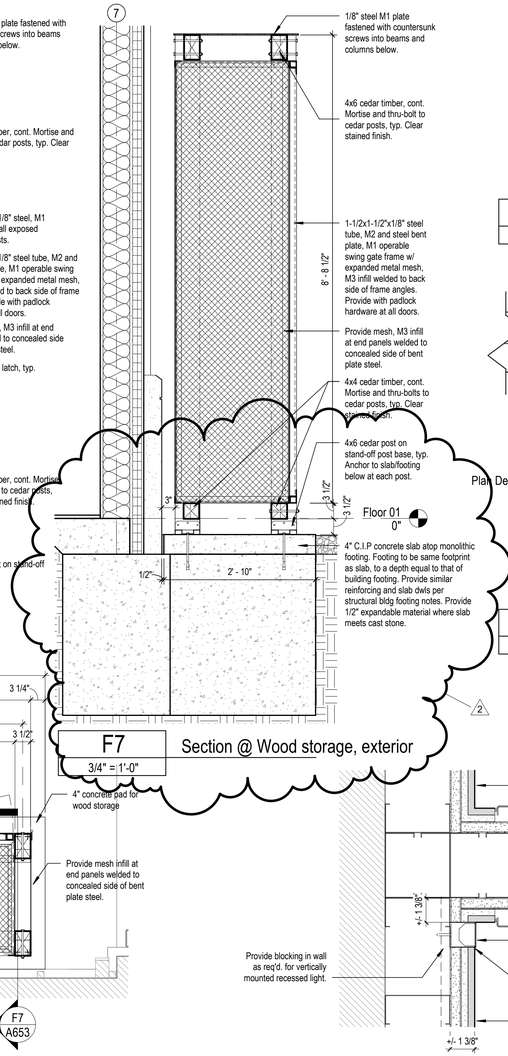


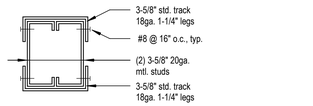
F1 — Elevation @ Wood storage, exterior
3/4" = 1'-0"



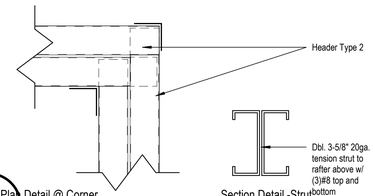
D1 — Enlarged Plan @ Wood storage, exterior
3/4" = 1'-0"



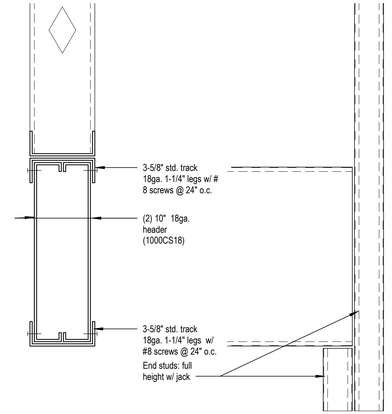
F7 — Section @ Wood storage, exterior
3/4" = 1'-0"



10 — Header Type 2
3" = 1'-0"

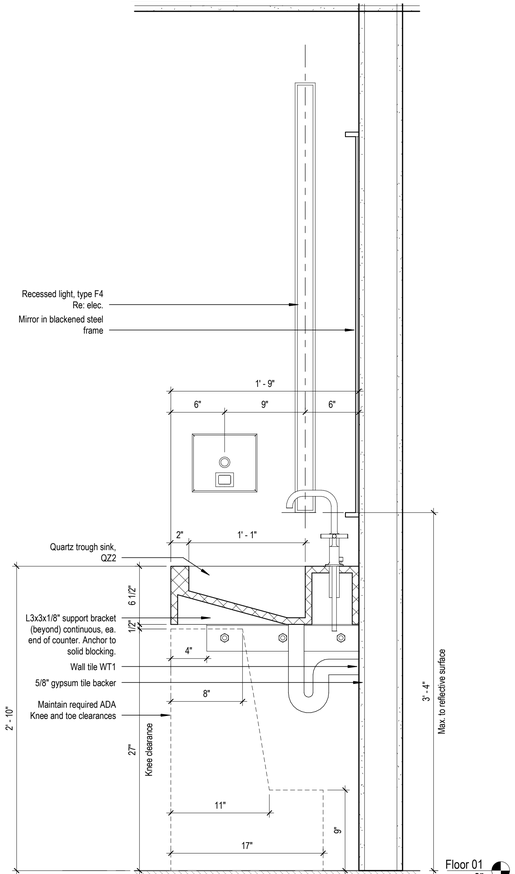


F9 — Corner and Struct Detail
3" = 1'-0"

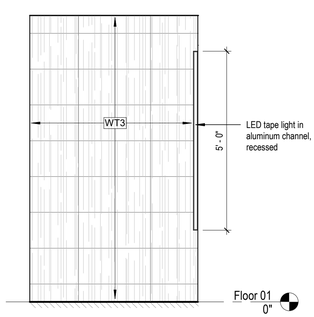


F11 — Header Type 1
3" = 1'-0"

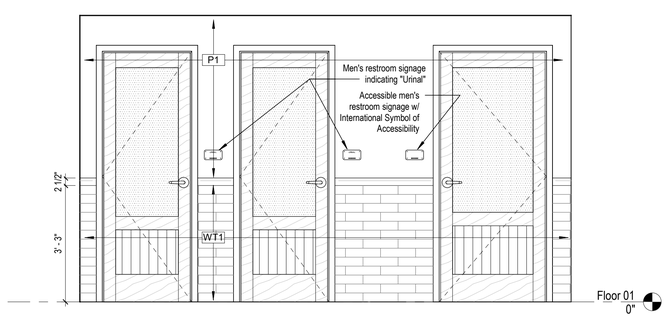
D7 — Detail @ Water closet light
3" = 1'-0"



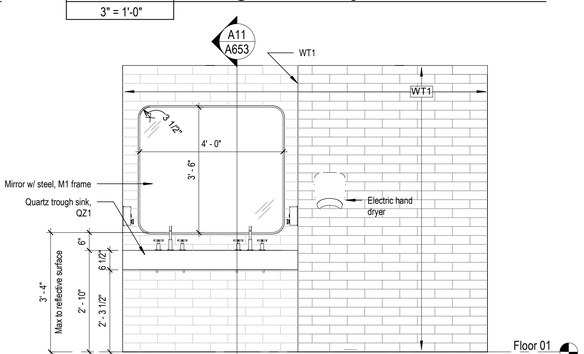
A11 — Section @ Sink
1 1/2" = 1'-0"



A1 — Elevation @ Water closet, int.
1/2" = 1'-0"



A3 — Elevation @ Water closets
1/2" = 1'-0"



A7 — Elevation @ Sinks
1/2" = 1'-0"

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

STATE OF MISSOURI
PAUL C. MINTO
NUMBER A-2001007056
REGISTERED ARCHITECT
Apr 12, 2021

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Missouri Certificate of Authority: #

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ISSUE DATE:	9 April, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
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3 Plans Review Comments	05.12.2021

Tenant - Details - Interior

A653

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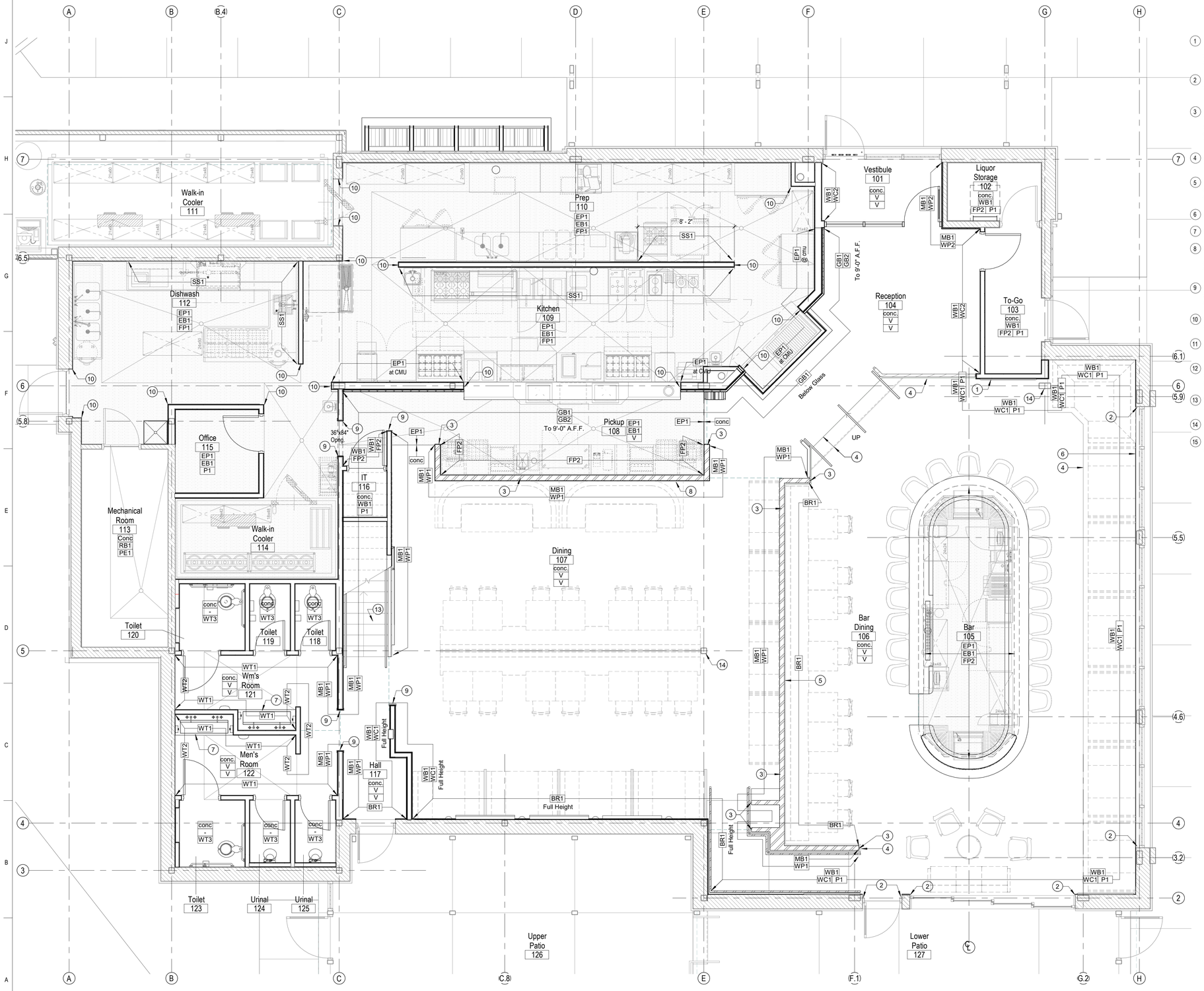

Finish Plan Keyed Notes

1. Provide wall base per finish plan. Top of wall base to be 4-1/2" above Floor 01 Level and extend down to top of 6" concrete pad at booth locations. Total height of base at this location only is 8".
2. Return 5/4" poplar hardwood to window frame, stained to match WC1 at all window and door jamb/sill locations that fall within WC1 panels, typ.
3. 1/8" blackened steel plate, M1 wall cap and end trim. Fasten to wall with countersunk black flat head torx screws @ 16" o.c., centered on steel plate. Provide 90 degree bend where steel turns down end wall. Extend steel down to top of curb.
4. All exposed turned down slab edges to match 'conc' finish per the finish schedule
5. Brick on this partial height wall to extend 6" below top of booth back. Provide Ptd cement board down to concrete curb, P4.
6. 8" tall WB1 at all booth platform locations
7. Quartz trough sink, QZ1
8. Wood planks on this partial height wall to extend 6" below top of booth back and 6" behind booth from each side. Provide ptd gyp board down to concrete floor, P4.
9. Full height blackened 1/8" bent steel, M1 U shaped wall cap guard. Provide at head of wall opening when applicable
10. Full height stainless steel corner guard. Provide full U shaped wall cap guard at end wall conditions.
11. Return the WC1 chair rail at jamb. Provide PTD P1 jamb and head at this location.
12. Partial height wall to be 3'-6" a.f.f with 5/4" poplar top, stained to match WC1. Overlap edge of wall by 1/2" on all sides.
13. 5"x12" laminated rift sawn white oak stair treads, finish to be clear, match W1
14. Exposed steel to be painted P2
15. Extend WC1 chair rail panel up to 3'-6" a.f.f. at the column wraps, return 5/4" poplar hardwood at jambs back to aluminum storefront, stain to match WC1.

Finish Legend

XX0	Floor Finish
XX0	Base Finish
XX0	Wall Finish
ETR	Existing finish to remain
V	Varies, RE: finish tags on plan
-	None

Floor Finish

- conc — CONCRETE FLOOR. Sealed concrete floor. Refer to A101 for concrete type, finish, and extent.
- EP1 — EPOXY FLOOR. MFG: Tenant. STYLE: MMA. COLOR: Onyx (Color and texture to match existing RDG @Overland Park (159th)
- W1 — WOOD FLOOR. SPECIES: White Oak, 3/4" X 4" T&G. GRADE: Light character. FINISH: High traffic, commercial waterborne finish - satin. Light (clear) in character, match arch. sample

Wall Base

- WB1 — WOOD BASE. 1x lumber (Height: 4-1/2" U.N.O), Poplar stained finish to match WP1. Paint base P4 at FRP locations. Paint base P1 at office 115 location only
- EB1 — EPOXY BASE. 6" epoxy resin cove base, integral w/ epoxy floor finish EP1
- MB1 — METAL BASE. 4-1/2" x 1" L - bent plate steel - M1 (1" typ., 4-1/2" typ.)
- RB1 — RESILIENT BASE. 4" cove base

Wall Finish

- BR1 — BRICK. MFG: Hebron Brick Company. STYLE: Silverado - Thin Brick - unsealed. SIZE: 2-1/4" x 7-5/8" x 1/2". NOTE: Provide mortar joint condition to match Lenexa location, provide mock up for approval.
- GB1 — GLAZED ARCHITECTURAL MASONRY UNIT. MFG: Trenwyth. STYLE: Astra-glaze SW+. COLOR: Snow White. SIZE: 4x4x16" nominal stretcher, and corner units (44S)
- GB2 — GLAZED ARCHITECTURAL MASONRY UNIT. MFG: Trenwyth. STYLE: Astra-glaze SW+ Thin Veneer. COLOR: Snow White. SIZE: 1x4x16" nominal stretcher thin veneer units (24S). **Note: Thin veneer units to extend up to 9'-0" A.F.F. typical. Provide PTD gyp board from 9'-0" to ceiling.
- FP1 — FRP PANEL. White Finish
- FP2 — FRP PANEL (partial height behind equipment where noted). Black Finish
- WP1 — WOOD PLANK - Thermory; Ignite. 1x6 Tongue and groove (C20), spruce cladding. Finish: Embossed Dragon Scale. **Note: Provide 1/8" blackened steel corner guards at all outside corners of WP1 finish, typ.
- WC1 — PLYWOOD VENEER PANEL. SPECIES: Poplar. STYLE: Quartered, bookmatched. FINISH: Stained - Matte finish Charcoal to match arch's sample. SIZE: 4'X8'x5/8" thck. panels, vertical running bond - 1/4" reveal joint backed w/ ptd MDF. Install on 1/4" fry reglet millwork cleat, typ. Provide blocking in stud wall as required by cleat MFR. **Note: T.O panels to be 3'-6" Above Floor 01 typ, U.N.O. *Dooge Veneers; qtd slate dyed poplar as basis of design.
- WC2 — VINYL WALL COVERING. Wall graphic, owner provided / installed
- MP1 — STANDING SEAM METAL PANELS. COLOR: Matt black, prefinished. SIZE: 24ga. 12"w panel, 3/4" tall seam
- SS1 — STAINLESS STEEL WALL PANEL. 22 ga., Brushed Finish. * Note: At Dishwash 112 provide SS1 wall panel from work surface up 48" where indicated.
- WT1 — WALL TILE. MFG: Wow USA. STYLE: Gradient. COLOR: White gloss. SIZE: 3"x12". **Note: At all Chair rail location where Wow Gradient tile is used, use Handwritten, Unscripted 2 1/2"x6" Chair rail trim, typ.
- WT2 — WALL TILE. MFG: Wow USA. STYLE: Gradient Crayon Matte. COLOR: Greige Matte. SIZE: 1.7"x9.5". ** Note: Full height, vertical installation at all locations, typ.
- WT3 — WALL TILE. MFG: Daltile. STYLE: Invoke. COLOR: Evening Veil ID04. SIZE: 12"x24. ** Note: Full height at all locations, typ.

Paint

Note: At ceiling open to structure paint exposed surfaces, decking, wood joists, steel beams and columns, ductwork, conduit and other unfinished materials color P2 unless noted otherwise. At all gyp board ceilings, Paint ceiling color P1 unless noted otherwise.
Note: Sheen as follows. Typical: Eggshell, Ceiling: Flat, Trim/Frames: Semi-gloss. Steel columns: Primer finish - Flat.

- PE1 — Epoxy Paint SW 7004 Snow Bound
- P1 — SW 7042 Shoji White
- P2 — SW 7675 Sealskin
- P3 — SW 6607 Red Tomato
- P4 — SW 6993 Black of Night

Other

- M1 — BLACKENED METAL. MFG: TBD. FINISH: Clear matte finish on Hot Rolled steel w/ natural dark color variation
- M2 — BLACKENED METAL. MFG: TBD. FINISH: Clear matte finish on Steel tubing/flat bar w/ natural dark appearance. **Note: Ground all welded joints, miter joints smooth and touch up - darkened. Typ.
- M3 — BLACKENED METAL. MFG: TBD. FINISH: Expanded metal - Openings not more than 1", typ. Flattened version for less sharp openings.
- WD1 — WOOD FINISH. SPECIES: White Oak, rift sawn. GRADE: Light character. FINISH: Prefinished w/ light stain to match arch's sample
- WD2 — WOOD FINISH. SPECIES: Match butcher block tables. GRADE: Medium Character. FINISH: Prefinished w/ stain to match arch's sample
- QZ1 — QUARTZ COUNTERTOP. MFG: Cambria. STYLE: Marble. COLOR: Carrick. SIZE: 3cm

**General note: GC to provide physical samples of all finish materials prior to approval.

A1 — First Floor Plan
1/4" = 1'-0"

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Cosntruction Documents
2061 NW Lowenstein Dr.
Lee's Summit, MO 64081

STATE OF MISSOURI — PAUL C. MINTO — NUMBER A-2013037156 — REGISTERED ARCHITECT — Apr 12, 2021

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Missouri Certificate of Authority: #

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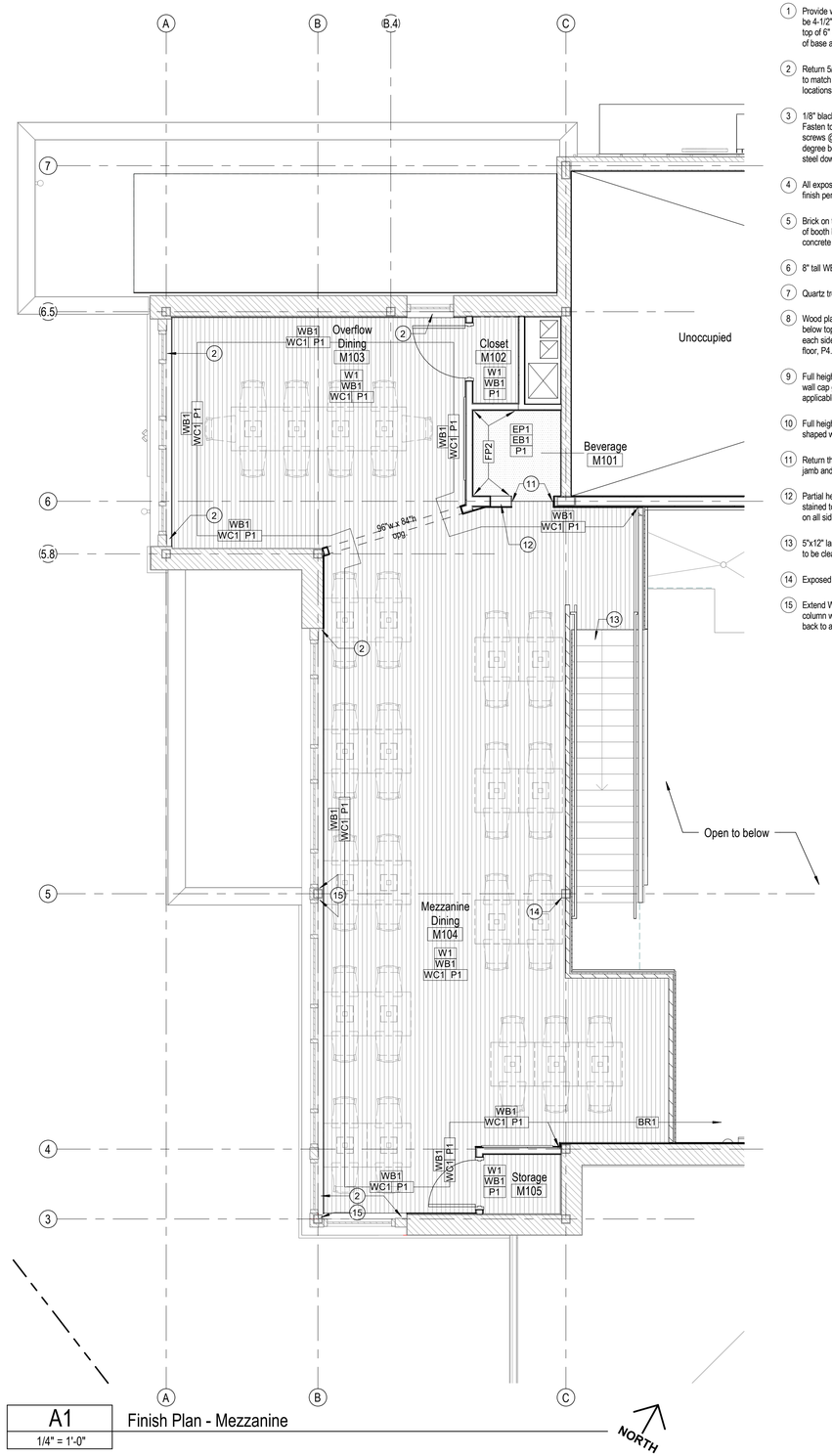
Finish Plan

A701



A1 — Finish Plan - Mezzanine

1/4" = 1'-0"

NORTH

Finish Plan Keyed Notes

1. Provide wall base per finish plan. Top of wall base to be 4-1/2" above Floor 01 Level and extend down to top of 6" concrete pad at booth locations. Total height of base at this location only is 8".
2. Return 5/4" poplar hardwood to window frame, stained to match WC1 at all window and door jamb/sill locations that fall within WC1 panels, typ.
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14. Exposed steel to be painted P2
15. Extend WC1 chair rail panel up to 3'-6" a.f.f. at the column wraps, return 5/4" poplar hardwood at jambs back to aluminum storefront, stain to match WC1.

Finish Legend

XX0	Floor Finish
XX0	Base Finish
XX0	Wall Finish
ETR	Existing finish to remain
V	Varies, RE: finish tags on plan
-	None

Floor Finish

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- MB1 — METAL BASE. 4-1/2" x 1" L - bent plate steel - M1

- RB1 — RESILIENT BASE. 4" cove base

Wall Finish

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- WC2 — VINYL WALL COVERING. Wall graphic, owner provided / installed
- MP1 — STANDING SEAM METAL PANELS. COLOR: Matt black, prefinished; SIZE: 24ga. 12"w panel, 3/4" tall seam
- WP2 — WOOD PLANK - Reclaimed - From owner provided stock. 1x6 tongue and groove. Red painted reclaimed finish. G.C. to prepare and install
- SS1 — STAINLESS STEEL WALL PANEL. 22 ga., Brushed Finish. * Note: At Dishwash 112 provide SS1 wall panel from work surface up 48" where indicated.
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- M2 — BLACKENED METAL. MFG: TBD; FINISH: Clear matte finish on Steel tubing/flat bar w/ natural dark appearance. **Note: Ground all welded joints, miter joints smooth and touch up - darkened. Typ.
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**General note: GC to provide physical samples of all finish materials prior to approval.

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
5/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit

Cosntruction Documents

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Lee's Summit, MO 64081

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PAUL C. MINTO
NUMBER A-2020007056
REGISTERED ARCHITECT
April 12, 2021

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Finish Plan

A702

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GENERAL NOTES - STRUCTURAL

1. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.

2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.

3. All design and construction work for this project shall conform to the requirements of the 2018 International Building Code, as amended by the City of Lee's Summit, Missouri.

4. These drawings are for this specific project and no other use is authorized.

5. Structural Design Load Criteria:

   A. Mezzanine Live Load = 100psf
   B. Dead Load:
      Roof = 20 psf

      Live Load:
      Roofs = 25 psf

      Snow = Pg = 20psf
      Drift per ASCE/SEI 7-16
   C. Lateral Loads:
      1.) Wind V = 109 mph, Exposure 'C'
      Occupancy [Risk] Category II, Iw=1.0
      Gcpi=+/-0.18
      Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7-16. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.
   D. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2018 International Building Code.

6. Concrete:

   A. All concrete for foundations (walls, grade beams, and footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
   B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
   C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
   D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
   E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
   F. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
   G. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
   H. P All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with some steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
   I. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit-controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
   J. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
   K. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
   L. No aluminum items shall be embedded in any concrete.

7. Reinforcing Steel:

   A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A1064.
   B. Clear coverage of concrete over reinforcing steel shall be as follows:

Concrete placed against earth	3"
Formed concrete against earth	2"
Slabs	1"
Other	2"

      All coverage shall be nominal bar diameter minimum.
   C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 30" minimum unless noted otherwise).
   D. At corners of all grade beams supply corner bars (minimum 2'-6" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
   E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (3'-0" minimum) at splices and embedment's, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
   F. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
   G. All slabs and stairs shall be shown otherwise shall be 6" thick with #4 bars at 12" on center each way.

8. Structural Steel:

   A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
   B. All welding shall conform to the recommendations of the AWS.
   C. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Steel Construction Manual "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2^ from the center of the support. All connections must be two bolt minimum.
   D. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise.

9. Post-Installed Anchors:

   A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post-installed anchors.
   B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
   C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
   D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
   E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.

10. Foundations:

   A. Spread footings and grade beams are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2000 psf.
   B. Contractor shall provide for dewatering at excavations from either surface water or seepage.
   C. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
   D. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

11. Light Gage Structural Stud Framing:

   A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
   B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
   C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
   D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
   E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.

12. Timber and Wood Framing:

   A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2018 International Building Code.
   B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus of 1,600,000psi unless noted otherwise. All joist, truss members, and headers to be No.2 grade (min. unless noted otherwise.
   C. Blocking of stud bearing walls and shear walls shall be solid, matching sheathing joints.
   D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0".
   E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the 2018 International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-i-Floor, exposure 1, glued and nailed with 8d ring shank nails or # 10 screws at 12" on center to all supports. All floor sheathing shall be installed with 1/8 inch gaps between panel edges and end joints. Sheathing of exterior walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings.
   F. Sill plates shall be bolted to concrete walls or steel beams with 1/2" diameter galvanized bolts at 32" on center. Plates in direct contact with concrete or masonry shall be treated lumber.
   G. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design, provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to "LUS" for nood application and "LB" for steel weld-on application. Roof joist ties shall be equal to "H2.5T".
   H. Service condition - dry with moisture content at or below 19% in service.
   I. Laminated veneer lumber (LVL) shall have an allonable flexural stress (F_b) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.

13. Shop Drawing Review:

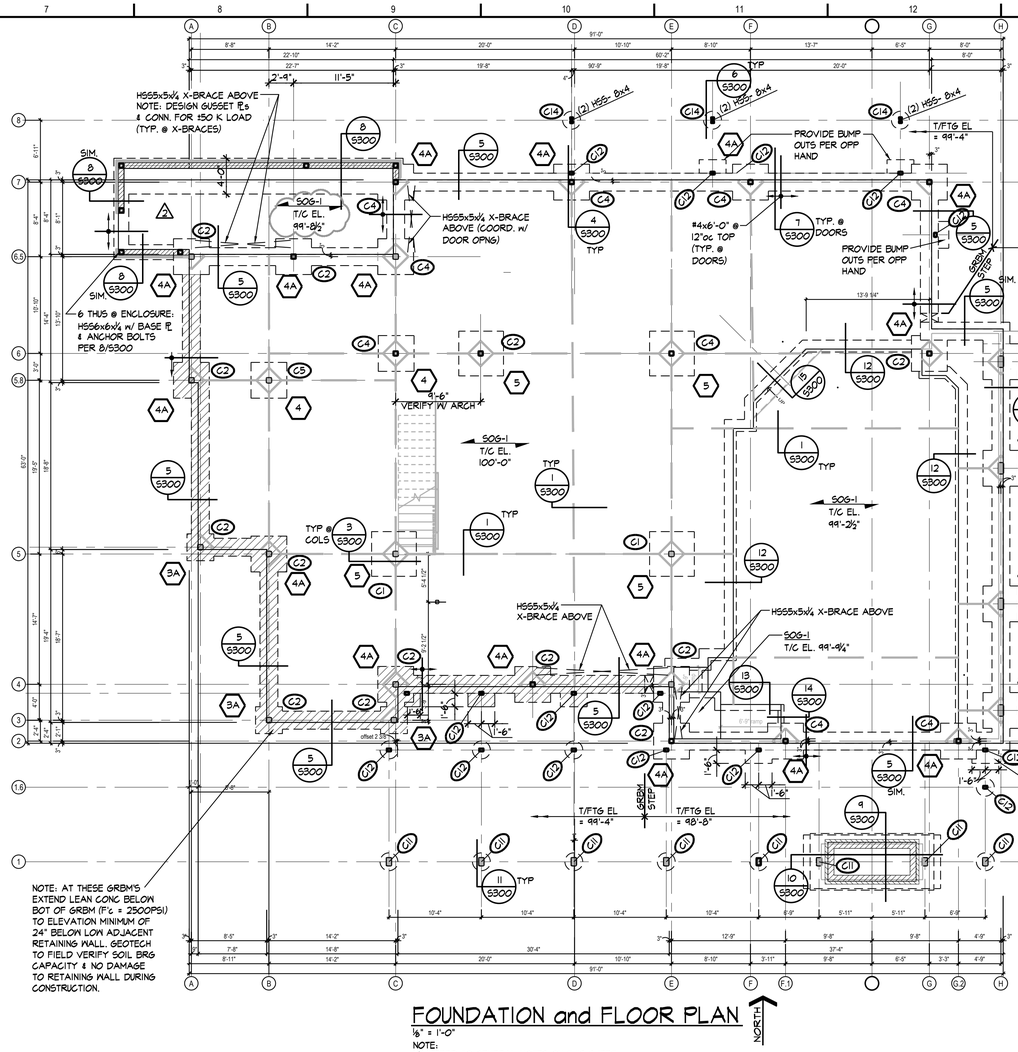
   A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
   B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
      1) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
      2) Review and approve each submission.
      3) Stamp each submission as approved.
   C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
   D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
      1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
      2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
      3) Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
      4) Structural steel connection design calculations submitted concurrently with structural steel shop drawings.
      5) Construction and control joint plans and/or elevations.
   E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

14. Statement of Structural Special Inspection:

   A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2018 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
   B. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
      1) Shop Fabrication - structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
      2) Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
      3) Concrete Construction per Section 1705.3 and Table 1705.3
         a. Reinforcing Steel Placement
         b. Bolts in Concrete
         c. Post Installed Anchors
         d. Design Mix Verification
         e. Concrete Sampling and Testing
         f. Concrete Placement
         g. Structural Welding
         h. Drill & Epoxy Bolts
         i. High Strength Bolting
         j. Verification of Soil Bearing Capacities
   C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
   D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
   E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

15. Copyright and Disclaimer:

   A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
   B. I, Michael J. Falbe, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



FOUNDATION and FLOOR PLAN

1/8" = 1'-0"

NORTH

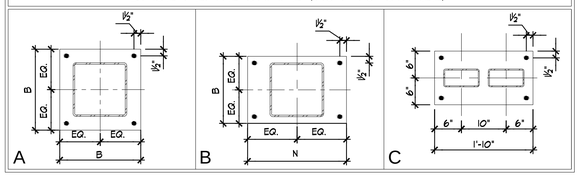
NOTE:
1.) REFER TO GENERAL NOTES ON THIS SHEET.
2.) REFER TO COLUMN SCHEDULE ON THIS SHEET
3.) REFER TO FOOTING SCHEDULE ON THIS SHEET
4.) "SOG-1" DENOTES 5" CONCRETE SLAB ATOP 15 MIL VAPOR BARRIER ATOP 4" GRANULAR LEVELING COURSE OVER 20" SELECT LOW VOLUME COMPACTED MATERIAL PER SPEC'S. REINF SLAB W/ 6x6-6/6.

COLUMN BASE PLATE SCHEDULE

TYPE	COLUMN	BASE PLATE (txBxN)	SHAPE	ANCHOR BOLTS
C1	HSS-5x5x1/4	11"x1/2"x11"	A	(4) 3/4"Ø x1'-9" (3" HK)
C2	HSS-6x6x1/4	12"x1/2"x12"	A	(4) 3/4"Ø x1'-9" (3" HK)
C4	HSS-6x6x5/16	12"x3/4"x12"	A	(4) 3/4"Ø x1'-9" (3" HK)
C5	HSS-3½x3½x5/16	10"x1/2"x10"	A	(4) 3/4"Ø x1'-5" (3" HK)
C6	HSS-14x6x5/16	12"x1"x24"	B	(4) 1"Ø x2'-6" (3" HK)
C11	HSS-10x6x1/4	16"x3/4"x12"	B	(4) 3/4"Ø x2'-0" (3" HK)
C12	HSS-6x4x1/4	14"x3/4"x8"	B	(4) 3/4"Ø x2'-0" (3" HK)
C14	(2) HSS-8x4x1/4	12"x3/4"x22"	D	(4) 3/4"Ø x1'-9" (3" HK)

NOTES:
1. SEE PLAN FOR ORIENTATION OF COLUMNS.
2. PROVIDE PLATE WASHER & EMBEDDED PLATE PER SCHEDULE @ ALL AB's.
3. U.N.O. ALL THREADED ROD A.B's SHALL BE F1554 (36ksi) MATERIAL.

BASE PLATE SHAPE (NOT TO SCALE)



FOOTING SCHEDULE

FOOTING TYPE	FOOTING SIZE	REINFORCING (EA WAY) (BOT)
3A	3'-0"x3'-0"x36"Dp	-#5@12"
4	4'-0"x4'-0"x14"Dp	-#4@6"
4A	4'-0"x4'-0"x36"Dp	-#5@12"
5	5'-0"x5'-0"x18"Dp	-#4@6"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/22/2021

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

ARCHITECTURAL COLLABORATIVE, P.C.
URBAN PRAIRIE

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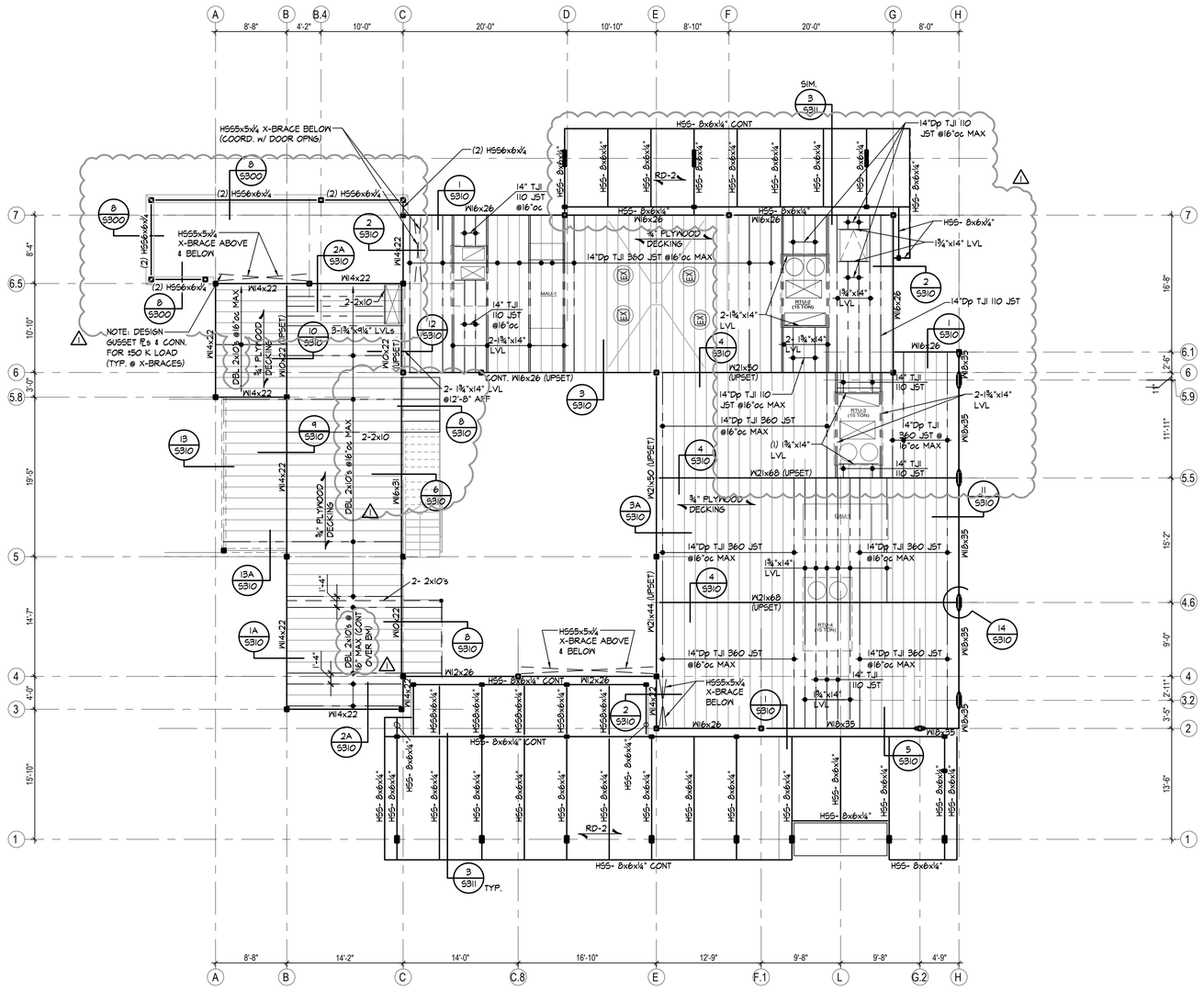
PROJECT NUMBER:	20-033
ISSUE DATE:	9 April 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021

Foundation Plan

S100



MEZZANINE and LOWER ROOF FRAMING PLAN

NORTH

⅛" = 1'-0"

NOTE:
1.) REFER TO GENERAL NOTES ON SHEET S100
2.) ▲ - INDICATES MOMENT CONNECTION
3.) "RD-2" DENOTES 3" T&G DECKING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

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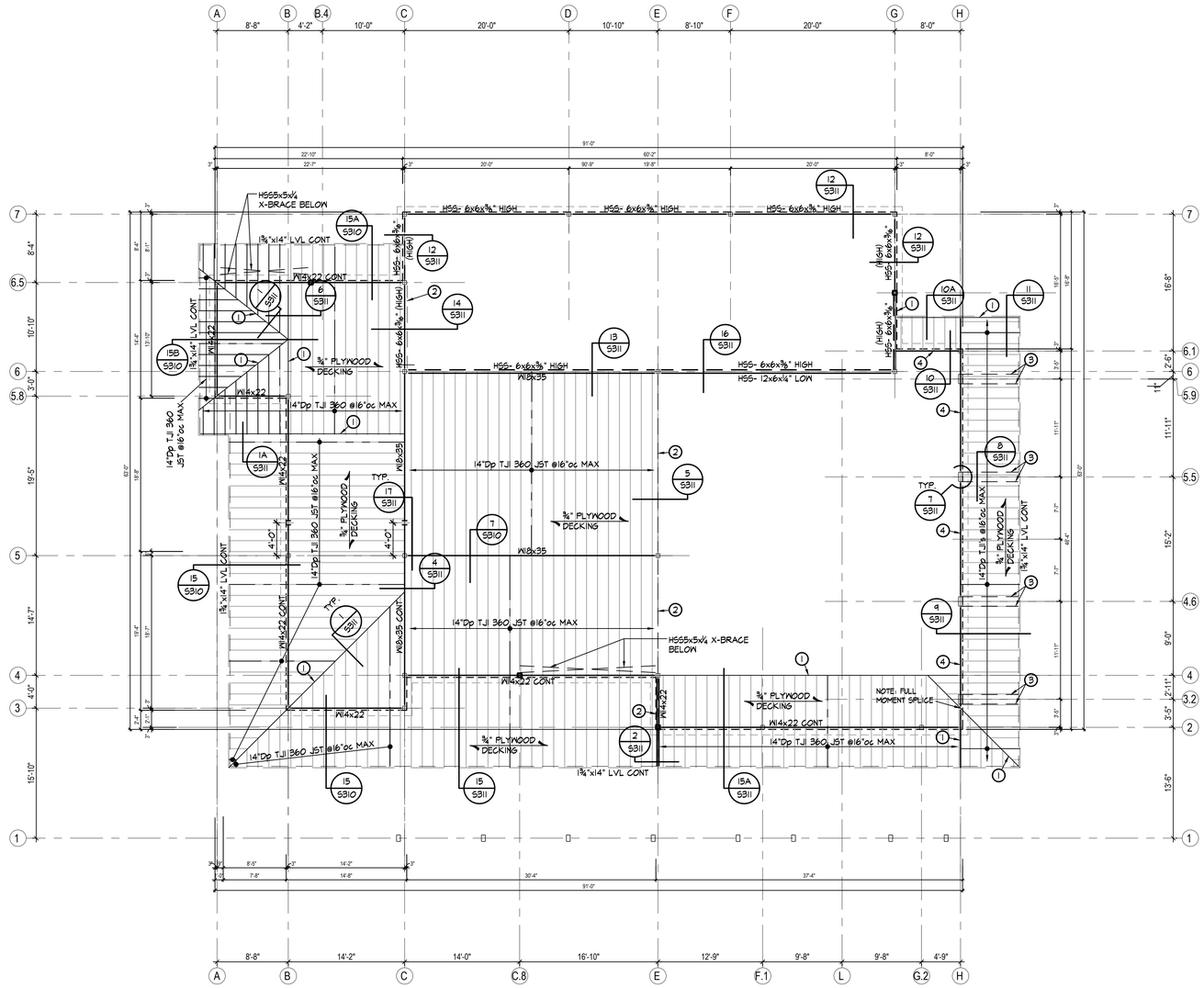
Lower Roof Framing Plan

S101



UPPER ROOF FRAMING PLAN

NORTH

⅛" = 1'-0"

NOTE:

1.) REFER TO GENERAL NOTES ON SHEET S100

2.) (1) - INDICATES HSS-14x4x¼"
(2) - INDICATES 2- 1¾"x14" LVL's
(3) - INDICATES 2- ¼"x14" PL's
(4) - INDICATES HSS-14"x6"x¼"

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

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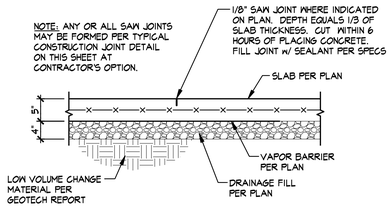
REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

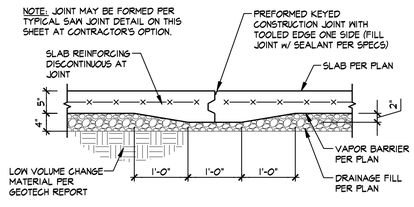
Upper Roof Framing Plan

S102



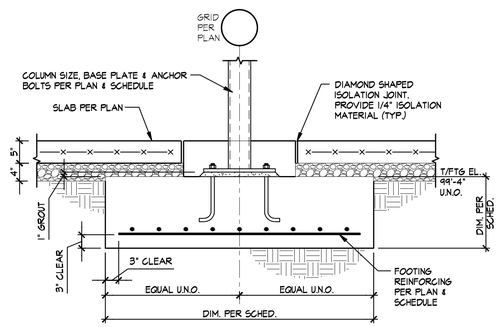
TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

SECTION 1 S300
3/4" = 1'-0"



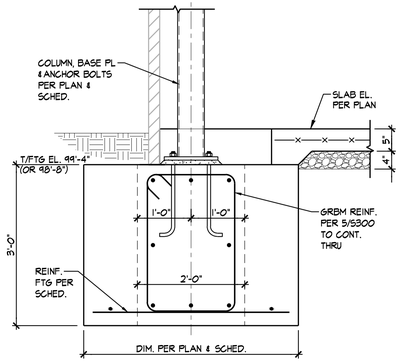
TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

SECTION 2 S300
3/4" = 1'-0"

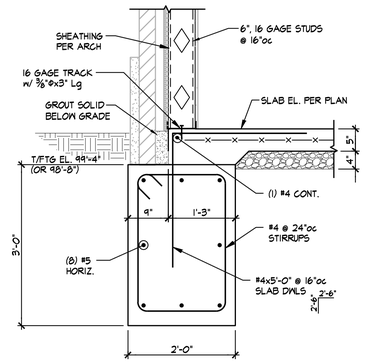


TYPICAL INTERIOR COLUMN FOOTING

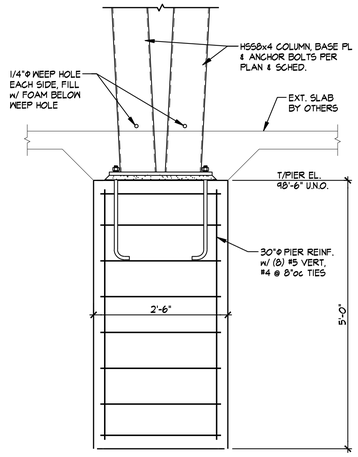
SECTION 3 S300
3/4" = 1'-0"



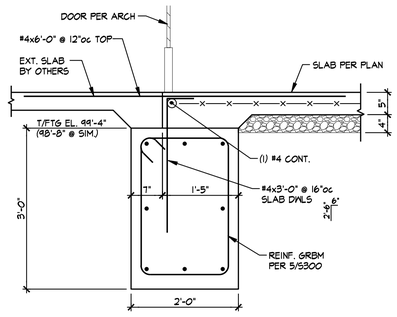
SECTION 4 S300
3/4" = 1'-0"



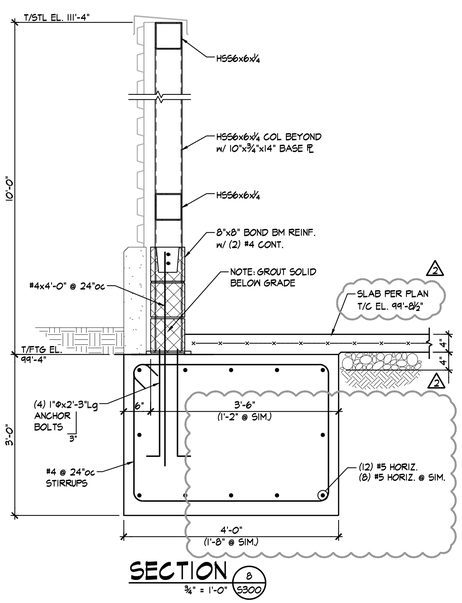
SECTION 5 S300
3/4" = 1'-0"



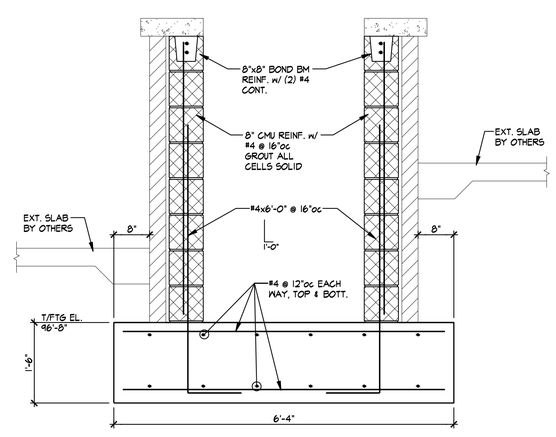
SECTION 6 S300
3/4" = 1'-0"



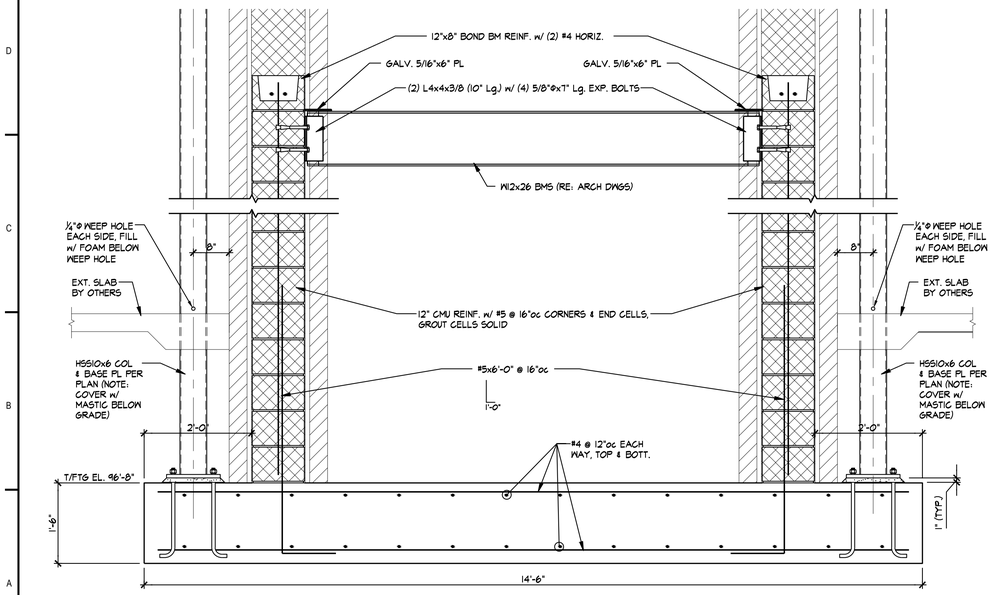
SECTION 7 S300
3/4" = 1'-0"



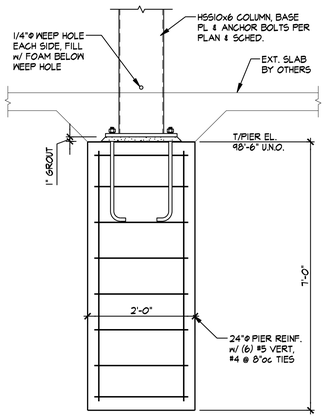
SECTION 8 S300
3/4" = 1'-0"



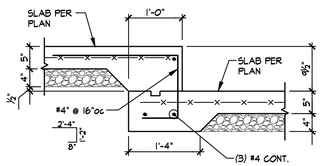
SECTION 9 S300
3/4" = 1'-0"



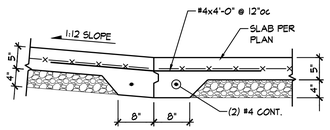
SECTION 10 S300
3/4" = 1'-0"



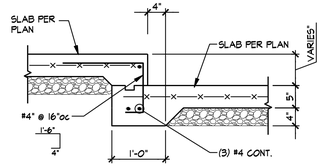
SECTION 11 S300
3/4" = 1'-0"



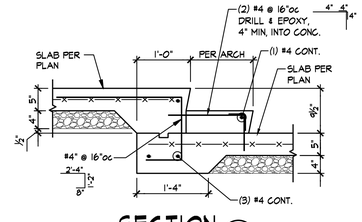
SECTION 12 S300
3/4" = 1'-0"



SECTION 14 S300
3/4" = 1'-0"



SECTION 13 S300
3/4" = 1'-0"



SECTION 15 S300
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI
JOHN FALBE
NUMBER E-24078
REGISTERED PROFESSIONAL ENGINEER

food service
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mechanical, electrical, and plumbing
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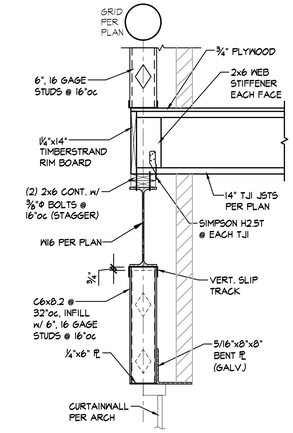
PROJECT NUMBER: 20-033
ISSUE DATE: 9 April 2021

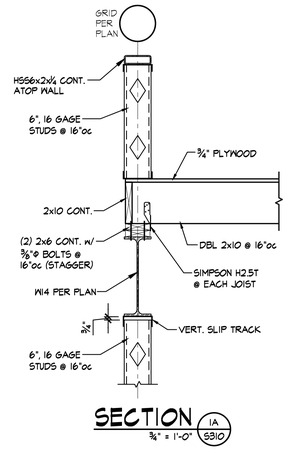
REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021

Foundation Sections

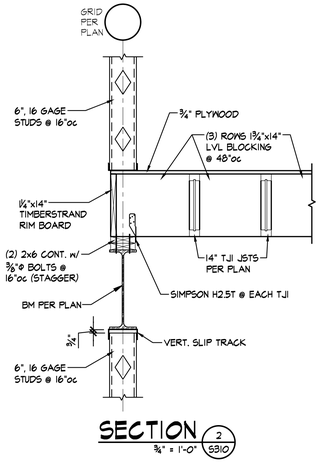
S300



SECTION 1 — 5310 — ¾" = 1'-0"



SECTION 1A — 5310 — ¾" = 1'-0"



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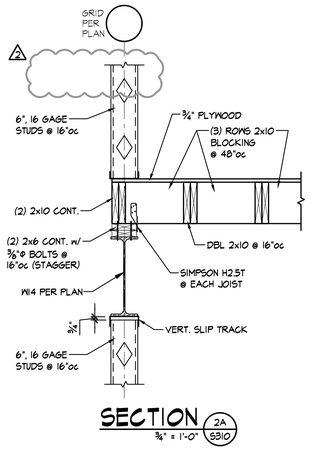

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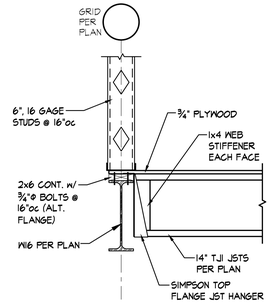
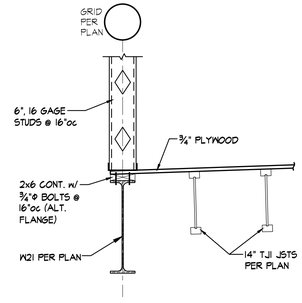
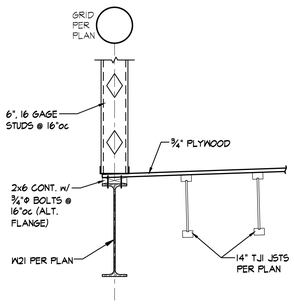


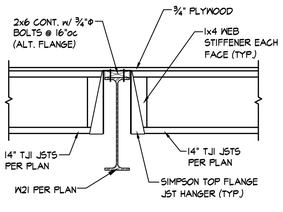
SECTION 3 — ¾" = 1'-0" — 5310



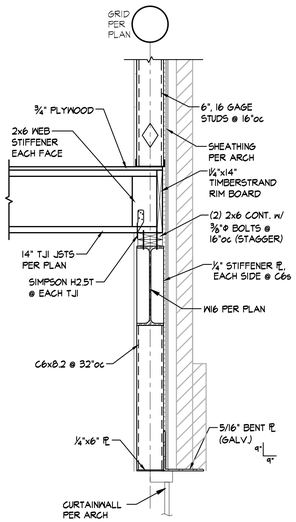
SECTION 3A — ¾" = 1'-0" — 5310



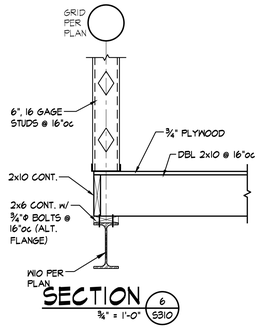
SECTION 3A — ¾" = 1'-0" — 5310



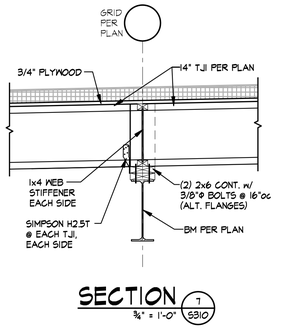
SECTION 4 — ¾" = 1'-0" — 5310



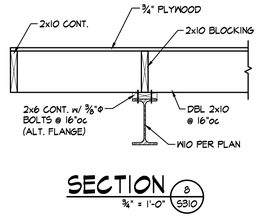
SECTION 5 — ¾" = 1'-0" — 5310



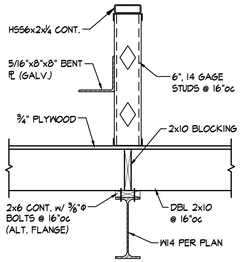
SECTION 6 — ¾" = 1'-0" — 5310



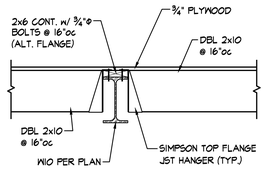
SECTION 7 — ¾" = 1'-0" — 5310



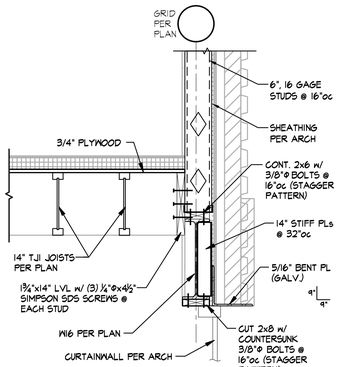
SECTION 8 — ¾" = 1'-0" — 5310



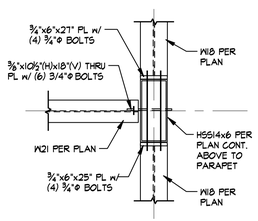
SECTION 9 — ¾" = 1'-0" — 5310



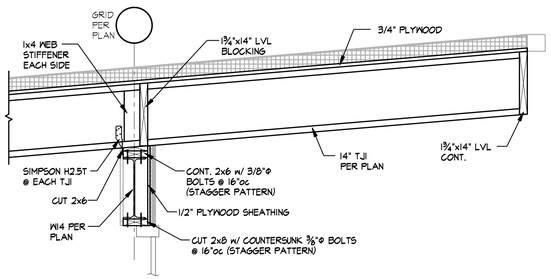
SECTION 10 — ¾" = 1'-0" — 5310



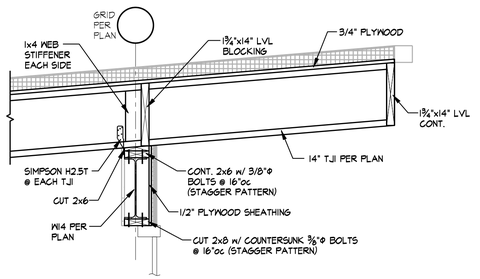
SECTION 11 — ¾" = 1'-0" — 5310



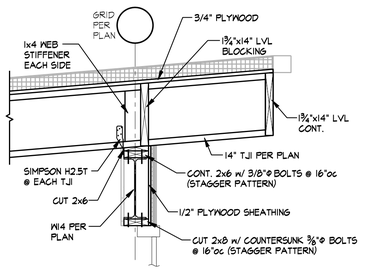
PLAN VIEW — 14 — 5310 — ¾" = 1'-0"



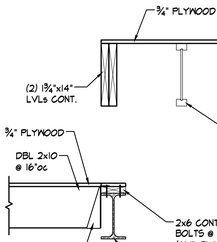
SECTION 15 — ¾" = 1'-0" — 5310



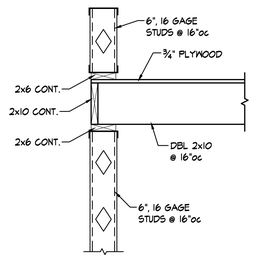
SECTION 15A — ¾" = 1'-0" — 5310



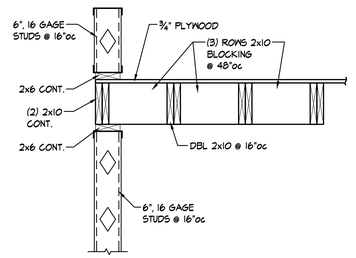
SECTION 15B — ¾" = 1'-0" — 5310



SECTION 12 — ¾" = 1'-0" — 5310



SECTION 13 — ¾" = 1'-0" — 5310



SECTION 13A — ¾" = 1'-0" — 5310

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LEE'S SUMMIT, MISSOURI
05/03/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
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Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI — JOHN FALBE — NUMBER E-24074 — REGISTERED PROFESSIONAL ENGINEER

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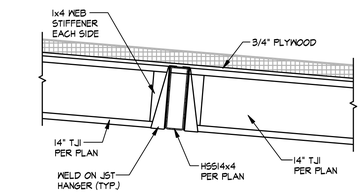
PROJECT NUMBER:	20-033
ISSUE DATE:	9 April 2021

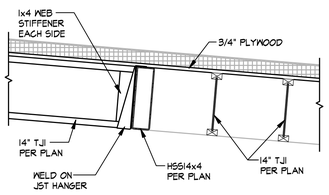
REVISIONS	DATE
1 Bid/Permit Set	04.16.2021
2 Addendum 01	05.03.2021

Framing Sections

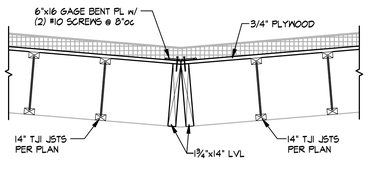
S310



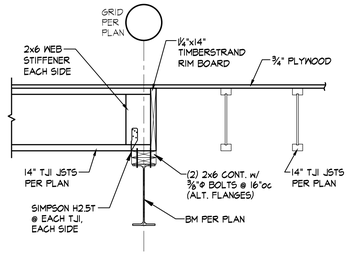
SECTION 1 S311
3/4" = 1'-0"



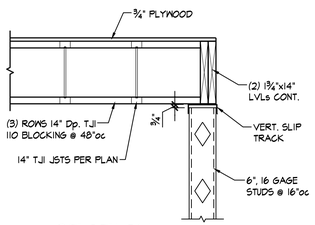
SECTION 1A S311
3/4" = 1'-0"



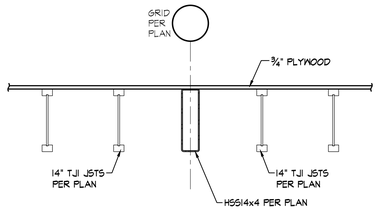
SECTION 2 S311
3/4" = 1'-0"



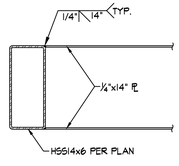
SECTION 4 S311
3/4" = 1'-0"



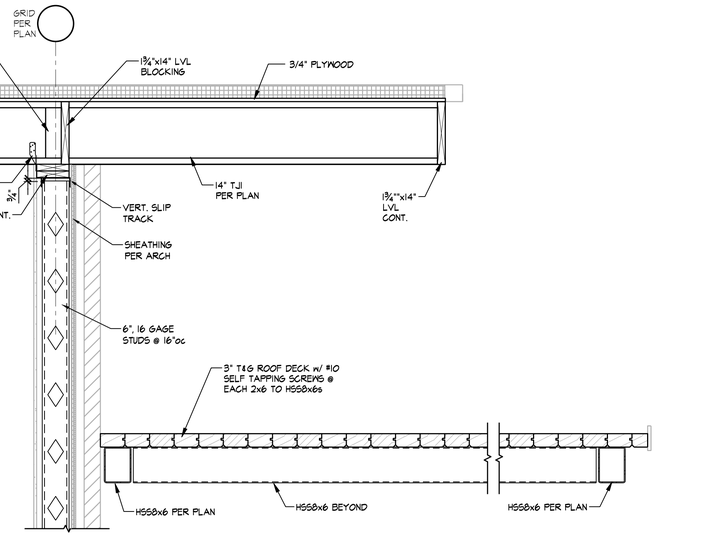
SECTION 5 S311
3/4" = 1'-0"



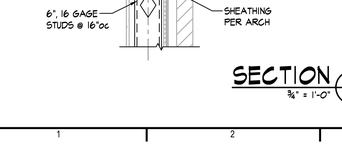
SECTION 6 S311
3/4" = 1'-0"



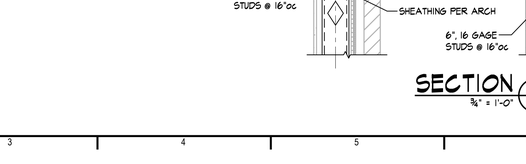
SECTION 7 S311
1" = 1'-0"
NOTE: WOOD FRAMING OMITTED FOR CLARITY



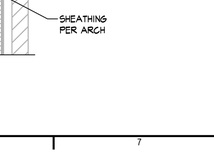
SECTION 3 S311
3/4" = 1'-0"



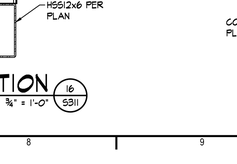
SECTION 8 S311
3/4" = 1'-0"



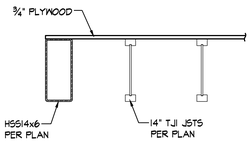
SECTION 9 S311
3/4" = 1'-0"



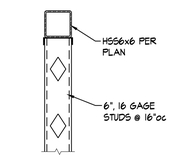
SECTION 10 S311
3/4" = 1'-0"



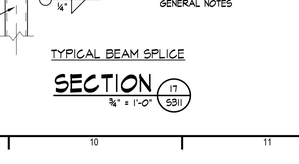
SECTION 10A S311
3/4" = 1'-0"



SECTION 11 S311
3/4" = 1'-0"

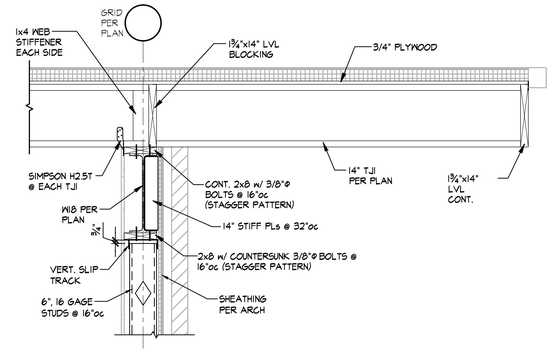


SECTION 12 S311
3/4" = 1'-0"

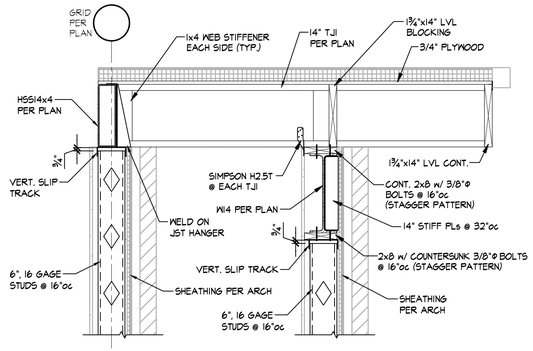


SECTION 13 S311
3/4" = 1'-0"

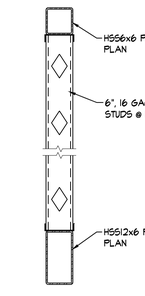
SECTION 14 S311
3/4" = 1'-0"



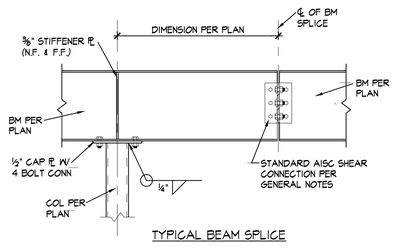
SECTION 15 S311
3/4" = 1'-0"



SECTION 15A S311
3/4" = 1'-0"



SECTION 16 S311
3/4" = 1'-0"



TYPICAL BEAM SPLICE

SECTION 17 S311
3/4" = 1'-0"

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STATE OF MISSOURI
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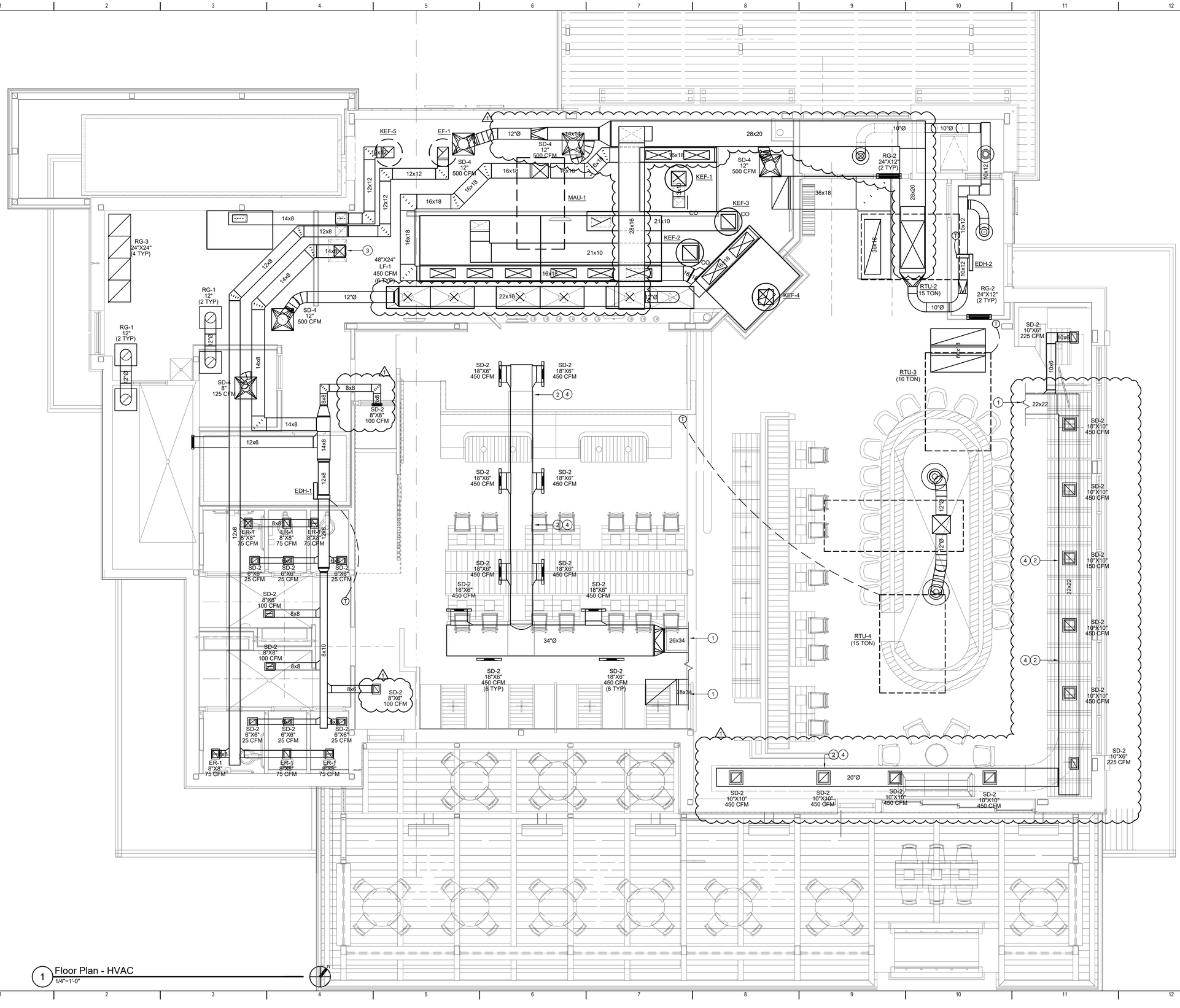
Framing Sections

S311



1 Floor Plan - HVAC
1/4"=1'-0"

GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM AS BUILT DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE DEMOLITION WORK AND NEW WORK WITH EXISTING CONDITIONS AND OTHER TRADES PRIOR TO CONSTRUCTION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE PLUMBING SYSTEMS. VERIFY CHASE AND PENETRATION LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR PIPING MEET REQUIREMENTS.
4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF EQUIPMENT AND SUPPORTS WITH LOCATION OF ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT. IF NO ACCESS PANEL IS SHOWN, PROVIDE ACCESS PANEL IN SIZE REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
7. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW WORK. DESIGN AND INSTALL PER NFPA13, LATEST EDITION.
8. COORDINATE EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT PLANS PREPARED BY OTHERS.
9. ALL GREASE DUCTS SHALL BE FIELD FABRICATED, WLEDED, STAINLESS STEEL.

PLAN NOTES:

1. SEE ROOF PLAN FOR CONTINUATION.
2. ROUTE DUCT AS HIGH AS POSSIBLE, ROUTE AT ROOF SLOPE.
3. 12"X12" SUPPLY AIR DUCT UP TO MEZZANINE ABOVE. SEE MEZZANINE PLAN FOR CONTINUATION.
4. INTERNALLY LINE DUCTWORK WITH 1/2" INSULATION.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI
MICHAEL ANTHONY MITCHELL
NUMBER
PE-2006029713
PROFESSIONAL ENGINEER
5-3-21

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10550 Barkley, Ste. 201
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mechanical, electrical, and plumbing
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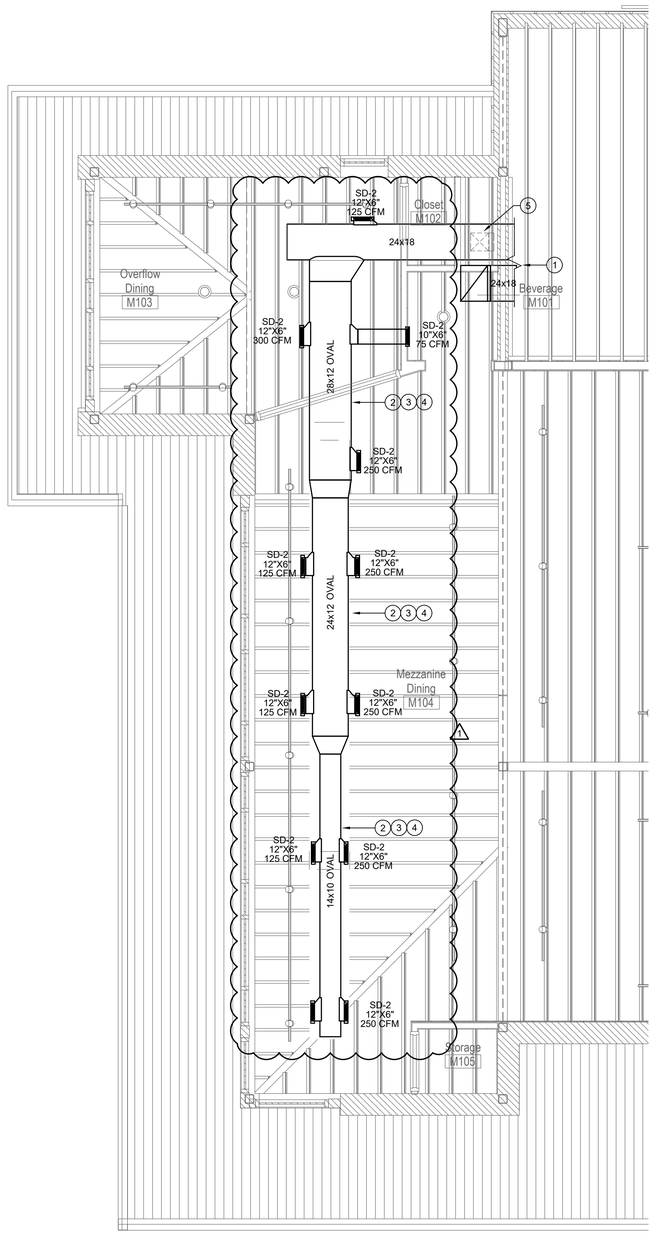
Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS	DATE
Bid/Permit Set	04.16.2021
1 ADD #1	05.03.2021

Mechanical Floor Plan

M101



1 Mezzanine Plan - HVAC
1/4"=1'-0"

GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM AS BUILT DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE DEMOLITION WORK AND NEW WORK WITH EXISTING CONDITIONS AND OTHER TRADES PRIOR TO CONSTRUCTION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE PLUMBING SYSTEMS. VERIFY CHASE AND PENETRATION LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR PIPING MEET REQUIREMENTS.
4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF EQUIPMENT AND SUPPORTS WITH LOCATION OF ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT. IF NO ACCESS PANEL IS SHOWN, PROVIDE ACCESS PANEL IN SIZE REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
7. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW WORK. DESIGN AND INSTALL PER NFPA13, LATEST EDITION.
8. COORDINATE EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT PLANS PREPARED BY OTHERS.
9. ALL GREASE DUCTS SHALL BE FIELD FABRICATED, WLEDED, STAINLESS STEEL.

PLAN NOTES:

1. SEE ROOF PLAN FOR CONTINUATION.
2. ROUTE DUCT AS HIGH AS POSSIBLE, ROUTE AT ROOF SLOPE.
3. TRANSITION DUCT DOWN TO ELEVATION APPROVED BY ARCHITECT.
4. INTERNALLY LINE DUCTWORK WITH 1/2" INSULATION.
5. 12"X12" SUPPLY AIR DUCT DOWN TO FLOOR BELOW. SEE FLOOR PLAN FOR CONTINUATION.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

06/02/2021

ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
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Lee's Summit, MO

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MICHAEL ANTHONY WELCH
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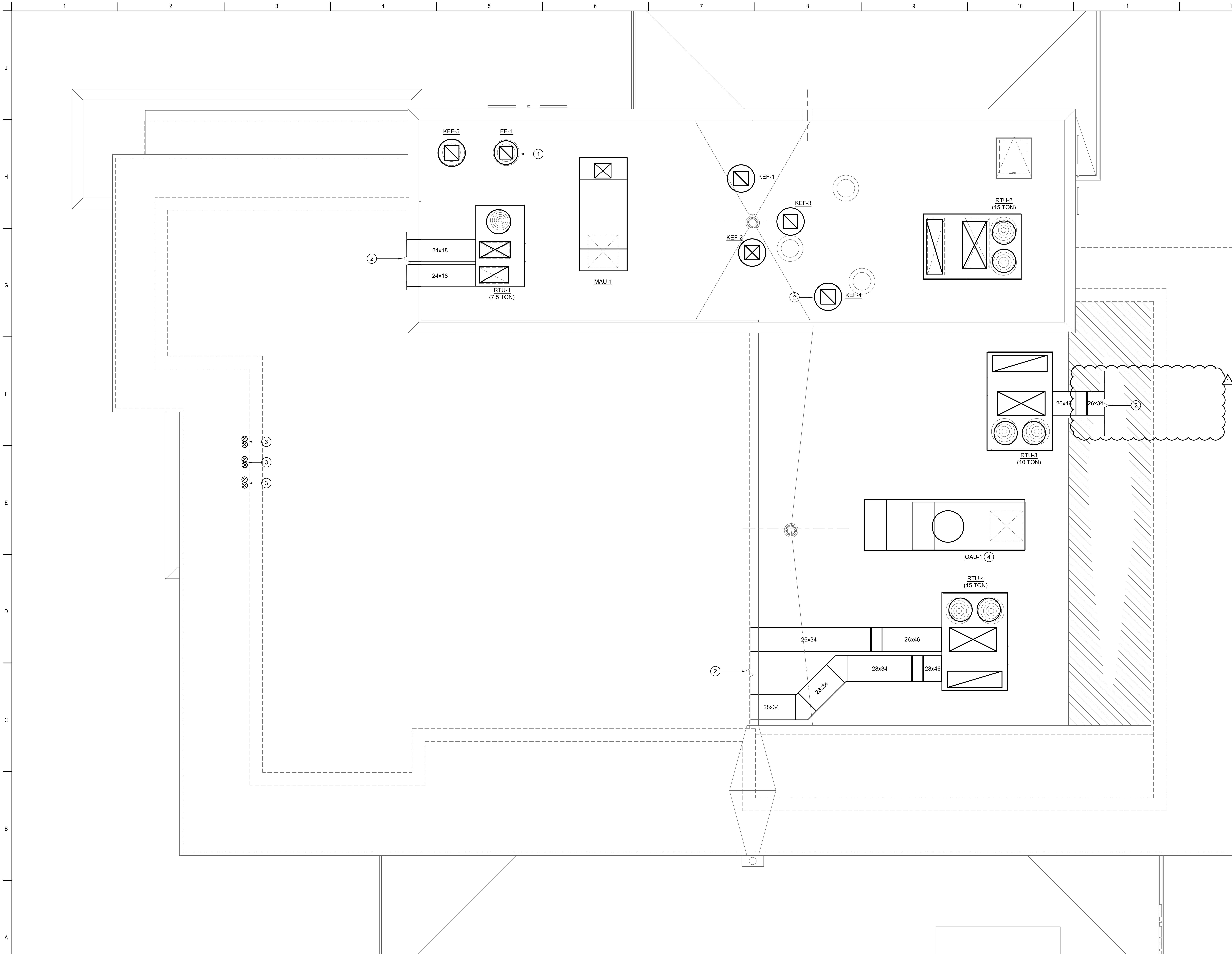
Mechanical Mezzanine Plan

M102



1 Roof Plan - Mechanical
1/4"=1'-0"

GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM AS BUILT DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE DEMOLITION WORK AND NEW WORK WITH EXISTING CONDITIONS AND OTHER TRADES PRIOR TO CONSTRUCTION.
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7. COORDINATE EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT PLANS PREPARED BY OTHERS.
8. INSTALL VENTLESS GAS PRESSURE REDUCING VALVES, AT EACH PIECE OF GAS FIRED EQUIPMENT, INCLUDING EXISTING RTU'S, TO REDUCE GAS PRESSURE FROM 2 PSIG TO 1/4 PSIG

PLAN NOTES:

(1) MOUNT DISCHARGE OF FAN 3' ABOVE OUTSIDE AIR INTAKE FOR CLOSEST ROOF TOP UNIT.

(2) SEE FLOOR PLANS FOR CONTINUATION.

(3) 6"Ø COMBUSTION AIR AND 6"Ø GAS FLUE UP THROUGH ROOF ABOVE. MATERIAL SHALL BE AS DIRECTED BY WATER HEATER MANUFACTURER. TERMINATE WITH APPROVED FITTING.

(4) WIRE OAU-1 TO ENERGIZE WHEN THE HMUA-1 ENERGIZES. OAU-1 SHALL DELIVER ROOM NEUTRAL AIR TO THE SPACE AT ALL TIMES WHEN HMUA-1 IS OPERATING.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
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Mechanical Roof Plan

M103

AIR TERMINAL DEVICES SCHEDULE

PLAN MARK	QUANTITY	MANUFACTURER	MODEL	SERVICE	MOUNT TYPE	BORDER SIZE	NECK SIZE	VOLUME DAMPER
ER-1	6	TITUS	350FL	EXHAUST	SURFACE	--	8"X8"	YES
RG-1	4	TITUS	PAR	RETURN	LAY-IN	24"X24"	12"	NO
RG-2	4	TITUS	350FL	RETURN	SURFACE	--	24"X12"	YES
RG-3	1	TITUS	PXP	RETURN	LAY-IN	24"X24"	24"X24"	NO
SD-2	1	TITUS	300FL	SUPPLY	SURFACE	--	12"X6"	YES
SD-2	1	TITUS	300FL	SUPPLY	SURFACE	--	10"X6"	YES
SD-2	8	TITUS	300FL	SUPPLY	SURFACE	--	18"X6"	YES
SD-2	6	TITUS	300FL	SUPPLY	SURFACE	--	6"X6"	YES
SD-2	2	TITUS	300FL	SUPPLY	SURFACE	--	8"X8"	YES
SD-3	2	TITUS	TMR	SUPPLY	SURFACE	--	12"	YES
SD-3	1	TITUS	TMR	SUPPLY	SURFACE	--	8"	YES
SD-3	2	TITUS	TMR	SUPPLY	SURFACE	--	10"	YES
SD-4	1	TITUS	OMNI	SUPPLY	LAY-IN	24"X24"	8"	YES
SD-4	4	TITUS	OMNI	SUPPLY	LAY-IN	24"X24"	12"	YES

ROOF TOP UNIT SCHEDULE

UNIT CALLOUT	WEIGHT (LBS)	NOMINAL TONS	UNIT INFORMATION								GAS BURNER INFORMATION						DX COIL INFORMATION							FILTER	NOTES
			MFG	MODEL NO.	VOLT/ PHASE	MCA	MOCP (AMPS)	EXT STATIC (IN WC)	FLOW (CFM)	HP	GAS TYPE	EFF. (%)	GAS INPUT (MBH)	GAS OUTPUT (MBH)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	SHC (MBH)	THC (MBH)	STEPS (#)	FAN NUM	# OF COMP	AMB TEMP (°F)	TYPE	
RTU-1	1069	7.5	TRANE	YSC092	208/3	39.3	50	0.9	3000	1	NAT	80	200	160	65	114.4	80	55	81.0	90	3	1	2	100	2" PLEATED	1,2
RTU-2	2519	15	TRANE	YSD180	208/3	75	100	0.9	6000	5	NAT	80	250	200	65	95.9	80	55	162.0	180	3	1	2	100	2" PLEATED	1,2
RTU-3	1399	10	TRANE	YSC120	208/3	49.6	60	0.9	4000	3	NAT	80	250	200	65	111.3	80	55	108.0	120	3	1	2	100	2" PLEATED	1,2
RTU-4	2519	15	TRANE	YSD180	208/3	75	100	0.9	6000	5	NAT	80	250	200	65	95.9	80	55	162.0	180	3	1	2	100	2" PLEATED	1,2

NOTES:
1. SUPPLY UNIT WITH THE FOLLOWING OPTIONS:
   - A. FACTORY ROOF CURB/ CURB ADAPTOR.
   - B. FACTORY STARTER AND DISCONNECT.
   - C. CONDENSER COIL HAIL GUARDS.
   - D. ECONOMIZER WITH BAROMETRIC RELIEF.
   - E. OUTDOOR AND RELIEF AIR HOODS, WITH INSECT SCREEN.
   - F. WIRED THERMOSTATS AND TEMPERATURE SENSOR. WIRELESS CONTROLS ARE NOT ACCEPTABLE.
2. SUPPLY WITH 2 COMPRESSORS.

RADIANT HEATER SCHEDULE

UNIT CALLOUT	UNIT INFORMATION			NOTES
	MFG	MODEL NO.	CAP (BTUH)	
RH-1	INFRASAVE	IO-152	50.0	1

NOTES:
1. SUPPLY WITH PATIO PANEL, MOUNTING KIT AND FLEXIBLE GAS CONNECTOR.

ELECTRIC DUCT HEATER SCHEDULE

UNIT CALLOUT	UNIT INFORMATION		DUCT DIMENSIONS		ELEC HEATING COIL INFORMATION						NOTES
	MFG	MODEL NO.	LENGTH (IN)	HEIGHT (IN)	AIRFLOW (CFM)	EAT (°F)	LAT (°F)	CAP (KW)	STEPS (#)	VOLT/ PHASE	
EDH-1	INDEECO	QUA	12	8	450	55	83	4.0	SCR	208/3	1
EDH-2	INDEECO	QUA	10	12	475	55	95	6.0	SCR	208/3	1

NOTE 1: FURNISH WITH INTEGRAL NON-FUSED DISCONNECT SWITCH AND FACTORY CONTROLS.

EXHAUST FAN SCHEDULE

UNIT CALLOUT	UNIT INFORMATION							NOTES
	MFG	MODEL NO.	TYPE	EXT STATIC (IN WC)	FLOW (CFM)	HP	VOLT/ PHASE	
EF-1	COOK	ACED	DNBLAST	0.5	450	1/2	120/1	1

NOTES:
1. SUPPLY WITH FACTORY STARTER, DISCONNECT, ECM MOTOR WITH SPEED CONTROLLER, INSECT SCREEN AND ROOF CURB.

LAMINAR FLOW GRILLE SCHEDULE

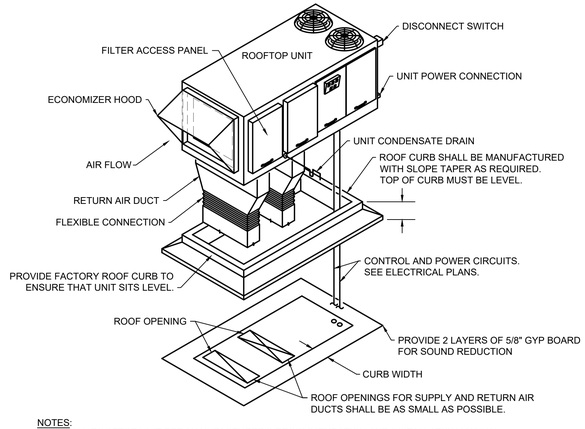
PLAN MARK	MFG.	MODEL NO.	SERVICE	MOUNT TYPE	VOLUME DAMPER	NOTES
LF-1	TITUS	TLF-SS	SUPPLY	LAY IN	YES	1

NOTES:
1. SUPPLY IN SIZES SHOWN ON DRAWINGS

DEDICATED OUTSIDE AIR UNIT SCHEDULE

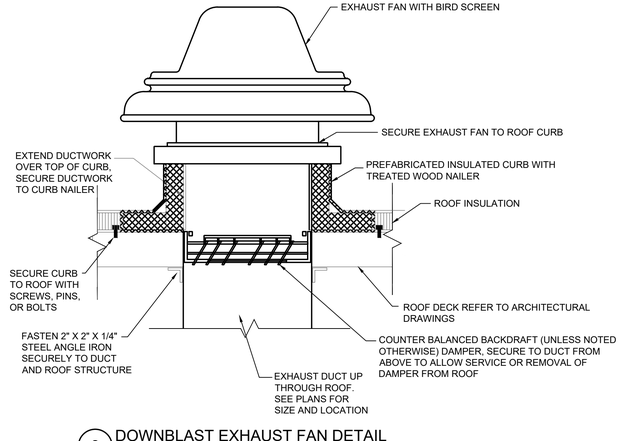
UNIT CALLOUT	WEIGHT (LBS)	UNIT INFORMATION								GAS BURNER INFORMATION					DX COIL INFORMATION							FILTER	NOTES
		MFG	MODEL NO.	VOLT/ PHASE	MCA	MOCP (AMPS)	EXT STATIC (IN WC)	FLOW (CFM)	HP	GAS TYPE	GAS INPUT (MBH)	GAS OUTPUT (MBH)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	SHC (MBH)	THC (MBH)	FAN NUM	# OF COMP	AMB TEMP (°F)	TYPE	
OAU-1	1305	TRANE	OABD036A3	208/3	25.6	35	0.75	600	2.5	NAT	75	60	0	92.6	100/77	56.6/56.4	28.2	43.2	1	1	100	2" PLEATED	1

NOTES:
1. SUPPLY UNIT WITH THE FOLLOWING OPTIONS:
   - A. FACTORY ROOF CURB/ CURB ADAPTOR.
   - B. FACTORY STARTER AND DISCONNECT.
   - C. CONDENSER COIL HAIL GUARDS.
   - D. DIGITAL SCROLL COMPRESSOR.
   - E. OUTDOOR HOOD WITH INSECT SCREEN.
   - F. HOT GAS REHEAT.
   - G. FACTORY CONTROLS.



NOTES:
1. INSTALL ROOFTOP UNIT PER MANUFACTURER'S RECOMMENDATION AND INSTALLATION MANUAL.
2. COORDINATE ROOF OPENINGS WITH STRUCTURAL DRAWINGS.
3. DUCT TRANSITIONS SHALL BE MADE IN THE TRUSS SPACE ABOVE THE CEILING AND BELOW THE ROOF.

1 ROOFTOP UNIT INSTALLATION DETAIL
NO SCALE



2 DOWNBLAST EXHAUST FAN DETAIL
NO SCALE

3 MECHANICAL SYMBOLS
NO SCALE

GENERAL

- (1) MECHANICAL NOTE REFERENCE
- (2) DEMOLITION NOTE REFERENCE
- (3) REVISION NOTE REFERENCE
- CONNECT TO EXISTING WORK

HVAC

- D — HVAC CONDENSATE DRAIN
- T THERMOSTAT
- T_S TEMPERATURE SENSOR
- S_D DUCT MOUNTED SMOKE DETECTOR
- SUPPLY DIFFUSER
- RETURN GRILLE/EXHAUST REGISTER
- RETURN AND EXHAUST AIR FLOW INDICATOR
- DUCT MOUNTED MANUAL BALANCING DAMPER
- DUCT MOUNTED FIRE/SMOKE, FIRE, AND SMOKE DAMPER

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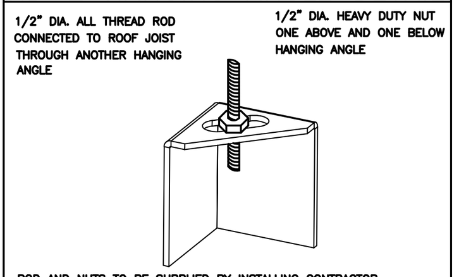
Mechanical Schedules & Details

M201

ND-2 HANGING ANGLE DETAIL



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

HANGING ANGLE LOCATIONS

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"H)	DIM FROM FRONT (30"H)
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF BD-2	4.166"	2.246	–
VHB/VHB-G	36"X36"	42"X42"	48"X48"
FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"

CALCULATIONS UTILIZED

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

$$\text{TOTAL DUCT AREA} = 144 \times \frac{\text{CFM}}{\text{FPM}(*)}$$

$$\text{DUCT LENGTH} = \frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$$

*CAPTIVE-AIRE DUCT CONNECTION SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 300-400 FPM.

BUILDING CODES

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

#3054804-001 & #3054804-002 — STANDARD 710 — Intertek — BUILT IN ACCORDANCE WITH NFPA No. 96

Listed under ETL File number 3054804-001/002

CLEARANCE TO COMBUSTIBLES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

GENERAL NOTES

INSTALLATION

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTORS'S PLANS.
5. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SEISMIC RESTAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

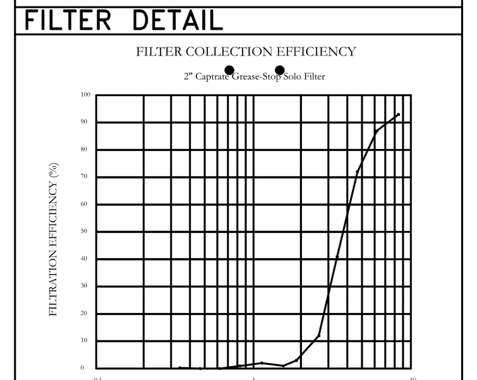
BALANCE

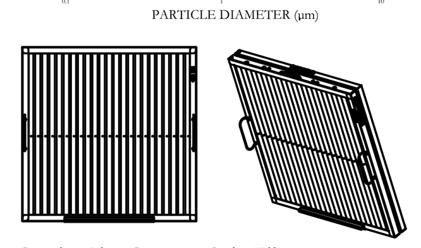
11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

FILTER DETAIL





CaptiveAire Captrate Solo Filter
ETL Listed Grease Extracting Filters
Made From 430 Stainless Steel

HOOD INFORMATION – JOB#4827083

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	ITEM 17	5424 ND-2-PSP-F	CAPTIVEAIRE	7' 0"	450 DEG	I	MEDIUM	200	1400	10"	13"	4"		1400	1551	-0.716"	1120	430 SS WHERE EXPOSED	ALONE	ALONE
2	ITEM 32	5424 ND-2-PSP-F	CAPTIVEAIRE	10' 0"	450 DEG	I	MEDIUM	200	2000	10"	19"	4"		2000	1516	-0.828"	1600	430 SS WHERE EXPOSED	LEFT	ALONE
3	ITEM 32	5424 ND-2-PSP-F	CAPTIVEAIRE	11' 0"	450 DEG	I	MEDIUM	200	2200	10"	21"	4"		2200	1509	-0.876"	1760	430 SS WHERE EXPOSED	RIGHT	ALONE
4	ITEM 52	6024 ND-2-PSP-F	CAPTIVEAIRE	6' 10"	600 DEG	I	HEAVY	285	1948	10"	18"	4"		1948	1558	-0.872"	1442	430 SS WHERE EXPOSED	ALONE	ALONE
5	ITEM 71	4224 VHB-G	CAPTIVEAIRE	6' 0"	700 DEG	II	N/A	150	900			4"	12"	900	1146	-0.105"	0	304 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	ITEM 17	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	L55 SERIES E26	NO							NO	432 LBS
2	ITEM 32	CAPTRATE SOLO FILTER	7	16"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	LEFT	12"x54"x24"			DCV-4111	1 LIGHT 1 FAN	NO	674 LBS
3	ITEM 32	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO							NO	593 LBS
4	ITEM 52	CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	L55 SERIES E26	NO							NO	453 LBS
5	ITEM 71						0									NO	199 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	ITEM 17	FIELD WRAPPER 12.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 102.00" LONG 430 SS VERTICAL.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
2	ITEM 32	FIELD WRAPPER 12.00" HIGH FRONT, LEFT.
		BACKSPLASH 122.00" HIGH X 300.00" LONG 430 SS VERTICAL.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
3	ITEM 32	FIELD WRAPPER 12.00" HIGH FRONT, RIGHT.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
4	ITEM 52	FIELD WRAPPER 12.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 48.00" HIGH X 83.00" LONG 430 SS HORIZONTAL.
		RIGHT SIDESPLASH 80.00" HIGH X 38.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 80.00" HIGH X 38.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		BACKSPLASH – INSIDE CORNER 80.00" HIGH X 2.00" LEG LENGTH 430 SS VERTICAL.
		BACKSPLASH – INSIDE CORNER 80.00" HIGH X 2.00" LEG LENGTH 430 SS VERTICAL.
5	ITEM 71	FIELD WRAPPER 12.00" HIGH FRONT, LEFT, RIGHT.

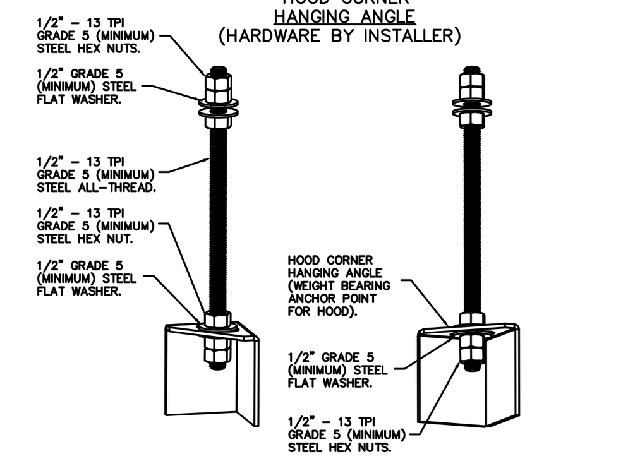
PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	ITEM 17	Front	84"	16"	6"	MUA	10"	28"		560	0.146"
						MUA	10"	28"		560	0.146"
2	ITEM 32	Front	132"	14"	6"	MUA	10"	28"		533	0.133"
						MUA	10"	28"		533	0.133"
						MUA	10"	28"		533	0.133"
3	ITEM 32	Front	132"	14"	6"	MUA	10"	28"		586	0.159"
						MUA	10"	28"		586	0.159"
						MUA	10"	28"		586	0.159"
4	ITEM 52	Front	84"	18"	6"	MUA	12"	28"		720	0.195"
						MUA	12"	28"		720	0.195"

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

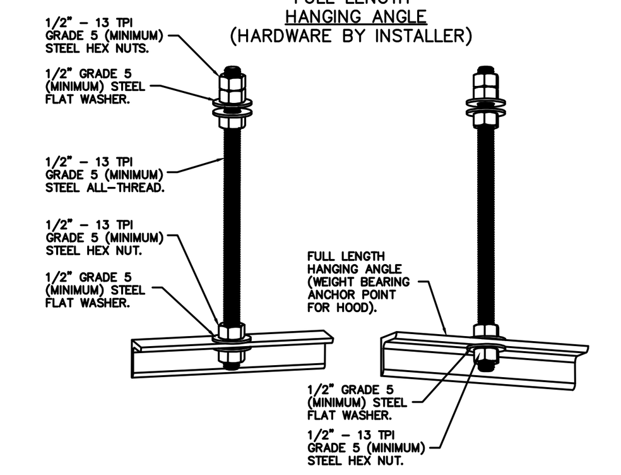
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

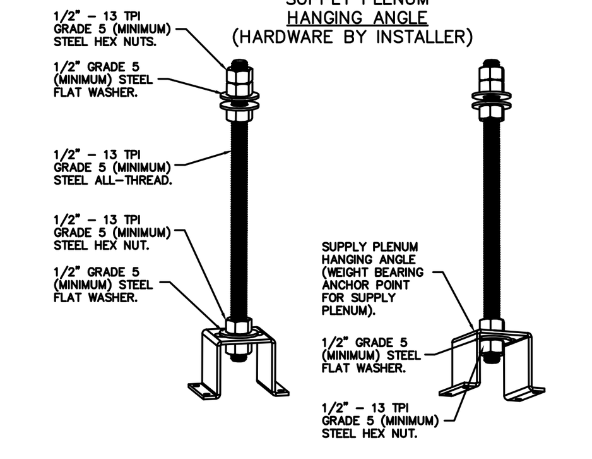
FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

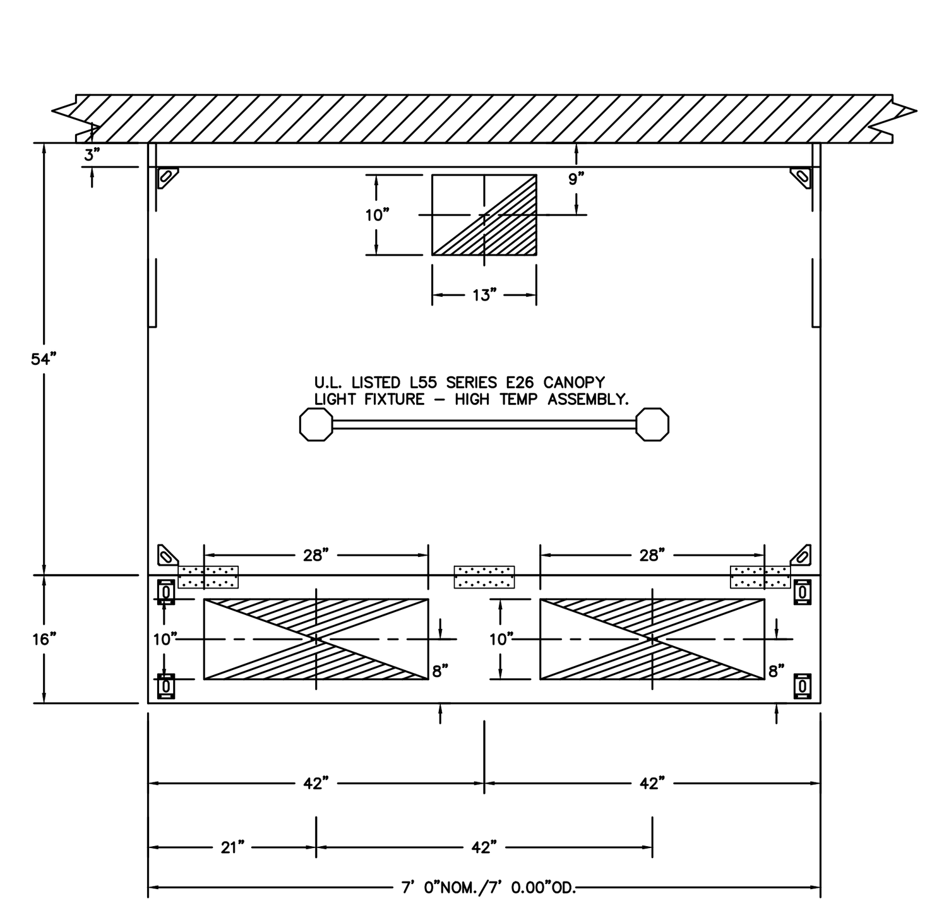
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)

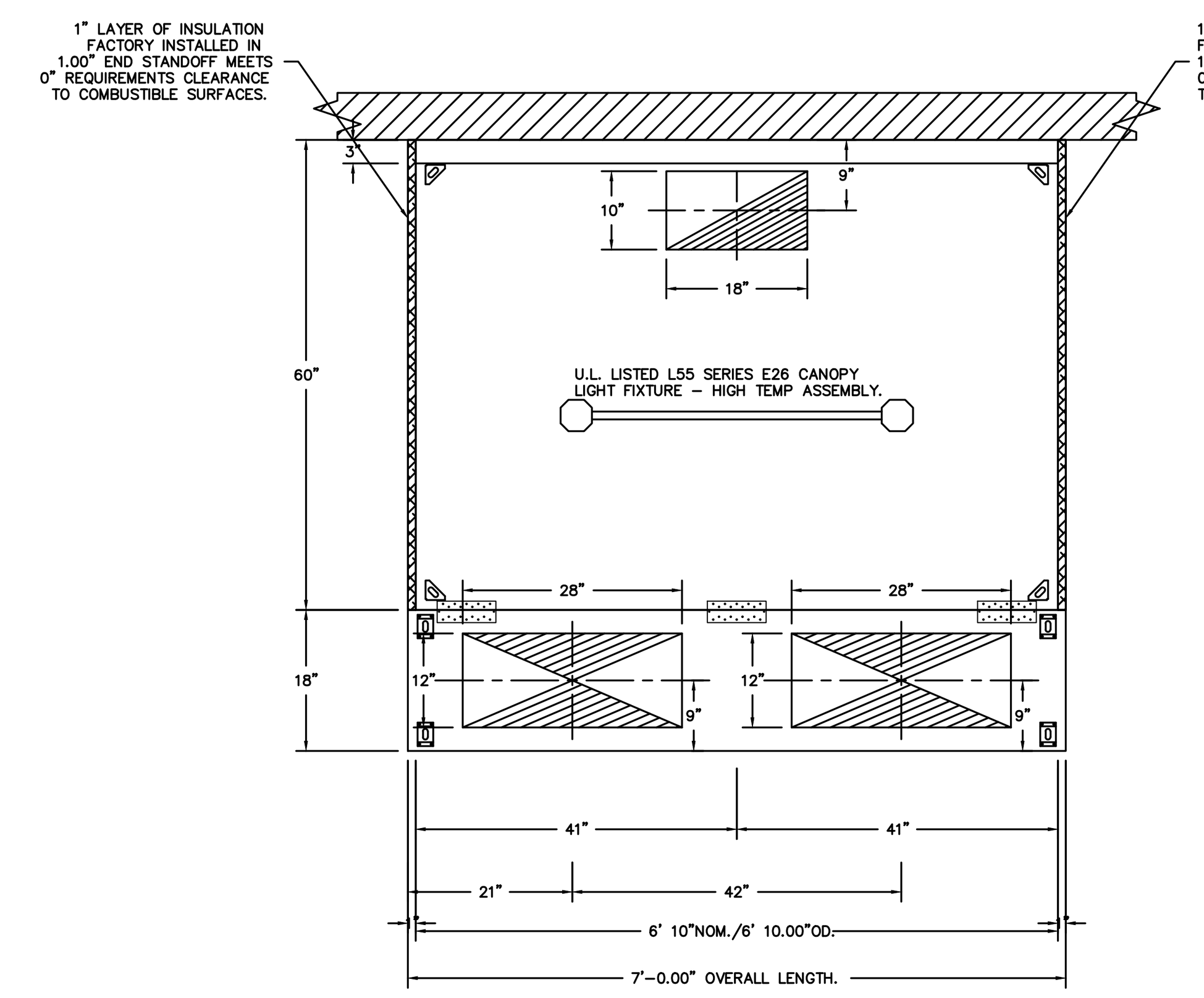


ASSEMBLY INSTRUCTIONS

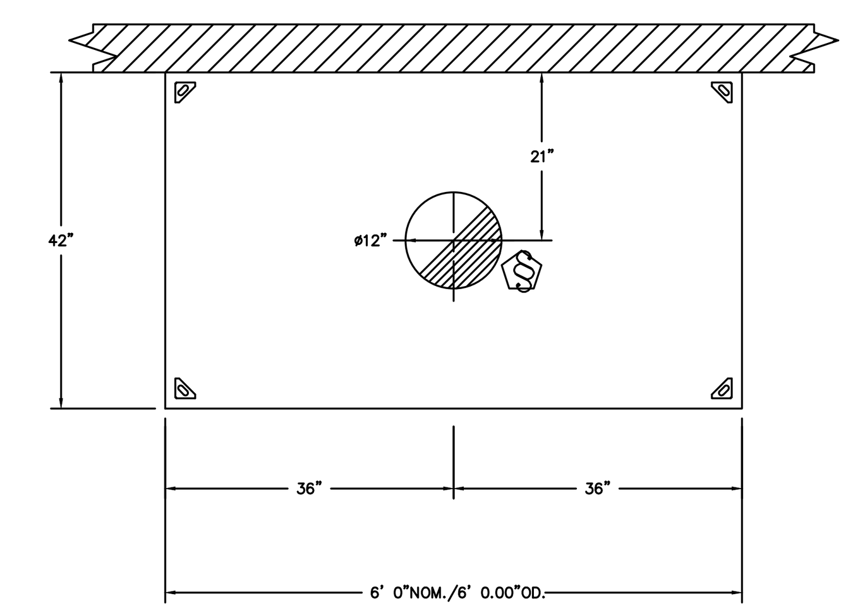
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



PLAN VIEW – HOOD #1 (ITEM 17)
7' 0.00" LONG 5424ND-2-PSP-F



PLAN VIEW – HOOD #4 (ITEM 52)
6' 10.00" LONG 6024ND-2-PSP-F



PLAN VIEW – HOOD #5 (ITEM 71)
6' 0.00" LONG 4224VHB-G

*** NOTE ***

MAKEUP AIR SHALL BE DELIVERED INTO SPACE IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.

*** NOTE ***

HOOD MANUFACTURER RECOMMENDS NO RETURNS OR 4-WAY DIFFUSERS WITHIN 10 FEET OF HOOD IN ALL DIRECTION.

*** NOTE ***

ALL WALLS AND STRUCTURES THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD NO ALLOWED.

FOR QUESTIONS, CALL THE:
KANSAS CITY REGIONAL OFFICE
1126 SWIFT STREET, KANSAS CITY, MO 64116
PHONE: (816) 221-8575
FAX: (816) 221-8311

CUSTOMER APPROVAL TO MANUFACTURE:

- Approved as Noted ☐
- Approved with NO Exception Taken ☐
- Revise and Resubmit ☐

SIGNATURE ______________________

Your Title ______________ Date ________

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

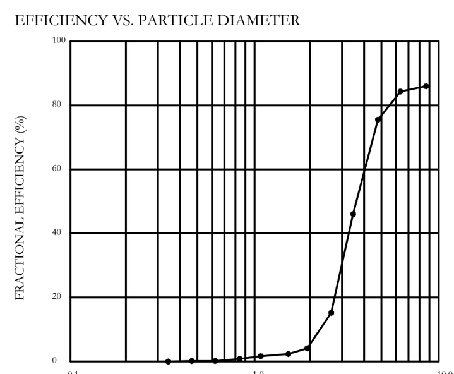
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

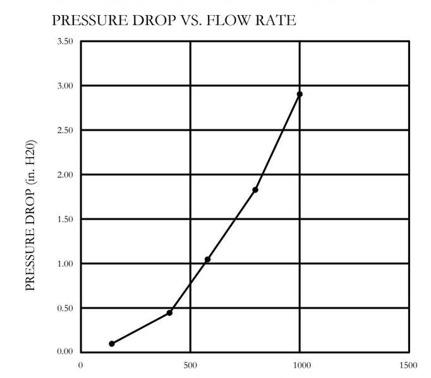
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

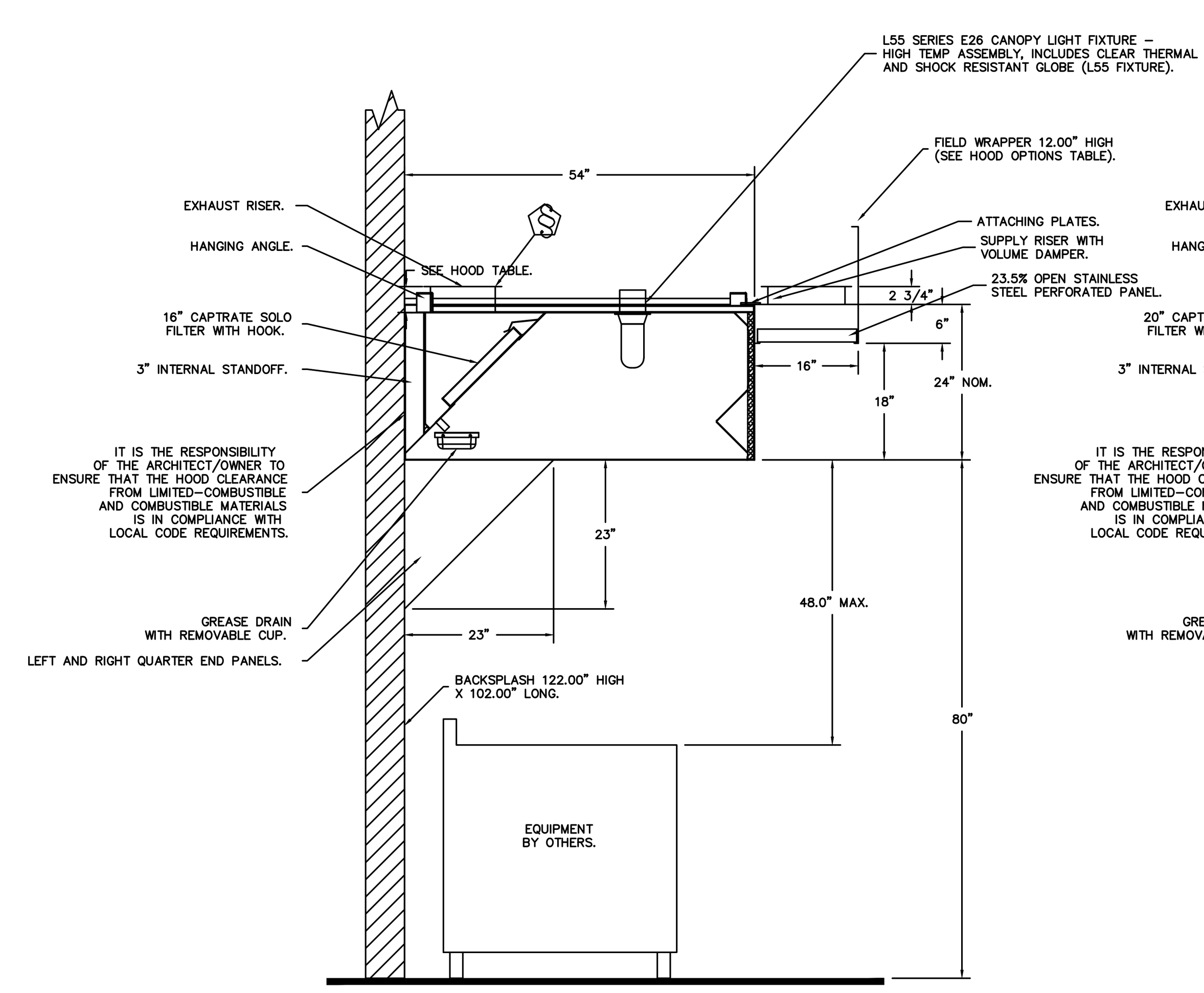
EFFICIENCY VS. PARTICLE DIAMETER



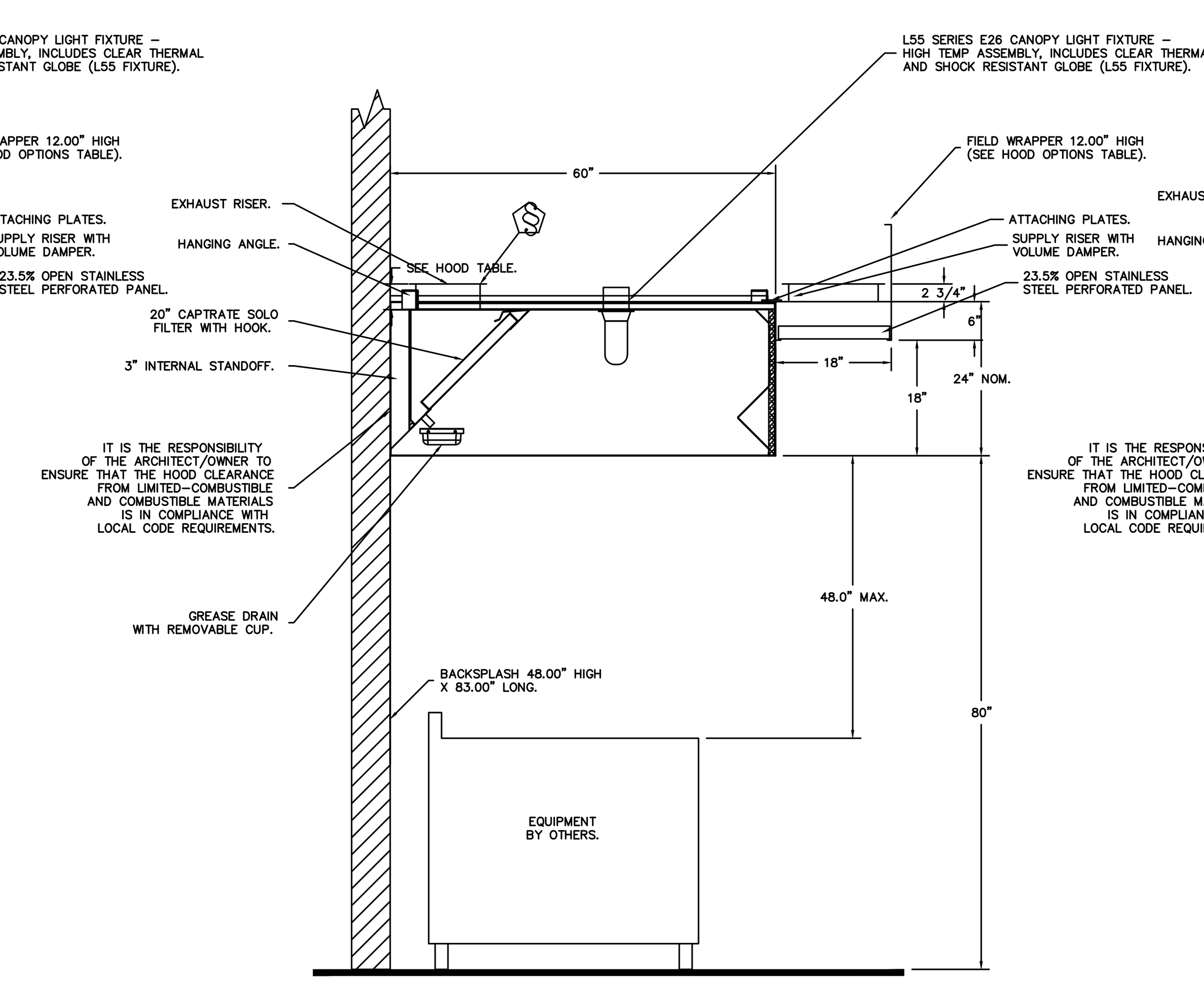
PRESSURE DROP VS. FLOW RATE



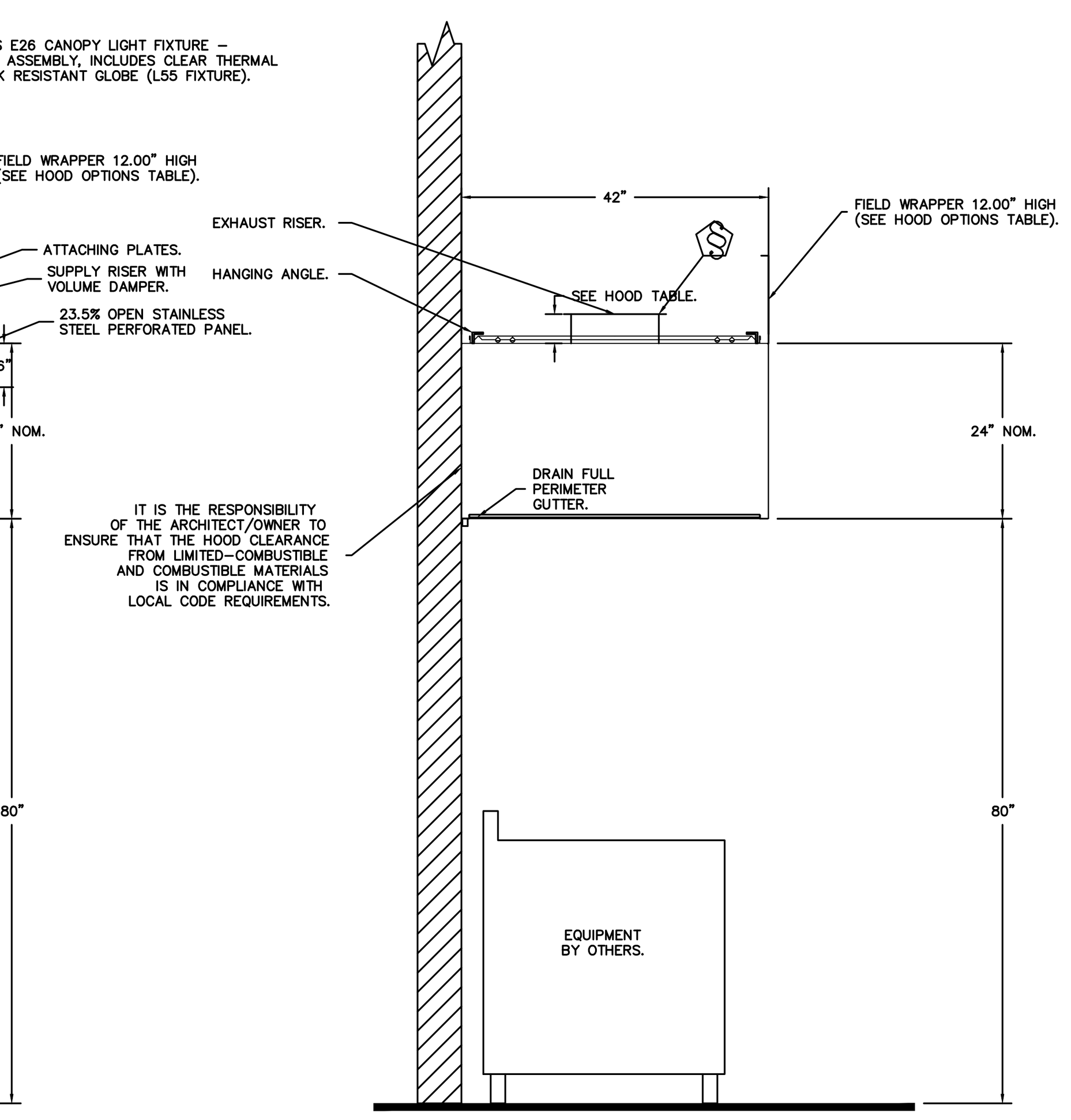
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #1 (ITEM 17)



SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #4 (ITEM 52)



SECTION VIEW – MODEL 4224VHB-G
HOOD – #5 (ITEM 71)

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI — MICHAEL BRANDON WELCH — NUMBER PE-2006029713 — PROFESSIONAL ENGINEER
4-16-21

food service
TriMark Hockenbergs
10550 Barkley, Ste. 201
Overland Park, Kansas 66212
p. 913.945.2490

mechanical, electrical, and plumbing
Welch and Mitchell
4370 W. 109th St., Ste. 203
Overland Park, KS 66211
913.544.1627

structural
Bob D. Campbell
4338 Belleview
Kansas City, MO 64111
816.531.4144

civil
SM Engineering
5507 High Meadow Circle
Manhattan, Kansas 66503
785.341.9747

architectural
URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.
4523 Mercier Street
Kansas City, Missouri 64111
p 816.304.7416
pminto@urbanprairiekc.com

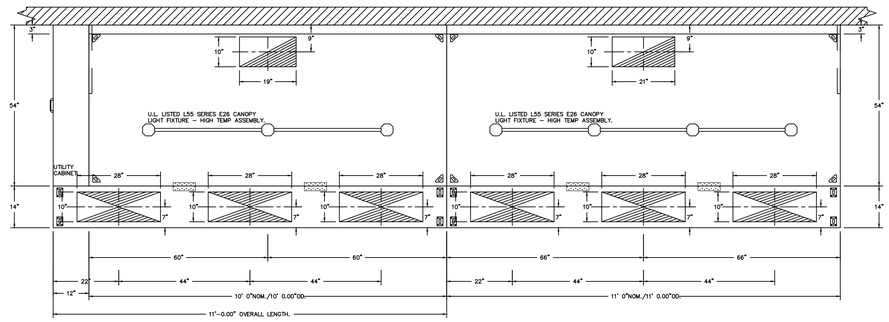
Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	10 March, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

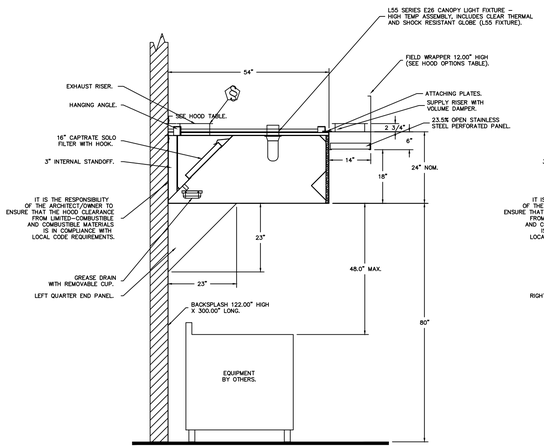
Mechanical Details

M202

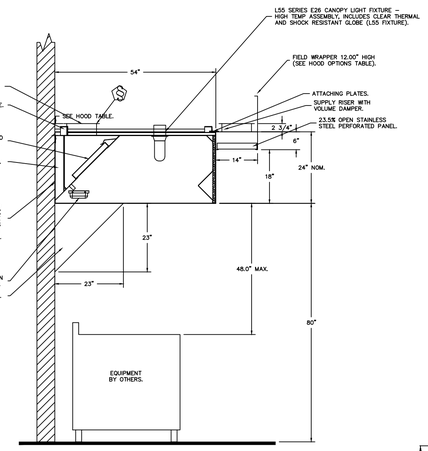


PLAN VIEW – HOOD #2 (ITEM 32)
10' 0.00" LONG 5424ND-2-PSP-F

PLAN VIEW – HOOD #3 (ITEM 32)
11' 0.00" LONG 5424ND-2-PSP-F



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #2 (ITEM 32)



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #3 (ITEM 32)

EXHAUST FAN INFORMATION – JOB#4827083

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	ITEM #17.1	1	DU85HFA	CAPTIVEAIRE	1400	1.000	1221	TEAO–ECM	1.000	0.3490	1	208	6.9	443 FPM	93	10.3
2	ITEM 32.1	1	DU85HFA	CAPTIVEAIRE	2000	1.600	1661	TEAO–ECM	1.000	0.8010	1	208	6.9	633 FPM	93	18.1
3	ITEM 32.2	1	DU180HFA	CAPTIVEAIRE	2200	1.600	1240	ODP,PREMIUM	2.000	1.2390	3	208	8.3	508 FPM	181	16.4
4	ITEM #52.1	1	CASRE18DD	CAPTIVEAIRE	1948	1.500	1150	ODP,PREMIUM	1.500	0.8070	3	208	4.4	1130 FPM	269	14.7
5	ITEM 71.1	1	DU50HFA	CAPTIVEAIRE	900	0.750	1510	TEAO–ECM	0.500	0.3430	1	115	6.3	342 FPM	75	16.1

MUA FAN INFORMATION – JOB#4827083

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
6	HMUA	1	A2–D.500–20D	20MF–2–MOD	A2–D.500	2500	5922	0.500	2092	ODP,PREMIUM	7.500	5.2140	3	208	21.1	26.4A	45A	705	27

GAS FIRED MAKE–UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
6	HMUA	365767	336506	55°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	ITEM #17.1	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
		1	2 YEAR PARTS WARRANTY.
2	ITEM 32.1	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
		1	2 YEAR PARTS WARRANTY.
3	ITEM 32.2	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	2 YEAR PARTS WARRANTY.
4	ITEM #52.1	1	UTILITY SET GREASE CUP.
		1	2 YEAR PARTS WARRANTY.
5	ITEM 71.1	1	ECM WIRING PACKAGE – EXHAUST – MANUAL OR 0–10VDC REFERENCE SPEED CONTROL –MSC– (TELCO), CCW ROTATION.
		1	I 15–BDD DAMPER.
		1	SCR–13 BIRD SCREEN.
		1	2 YEAR PARTS WARRANTY.
6	HMUA	1	AC INTERLOCK RELAY – 24VAC COIL.
		1	MOTORIZED BACKDRAFT DAMPER FOR A2–D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	LOW FIRE START.
		1	INLET PRESSURE GAUGE, 0–35".
		1	MANIFOLD PRESSURE GAUGE, –5 TO 15" WC.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) – THREE PHASE ONLY.
		1	2 YEAR PARTS WARRANTY.

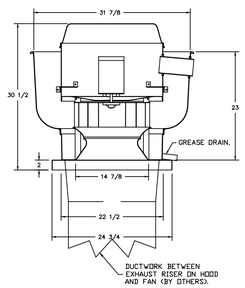
FAN ACCESSORIES

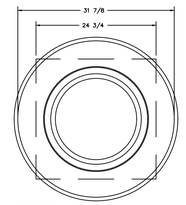
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	ITEM #17.1	YES						
2	ITEM 32.1	YES						
3	ITEM 32.2	YES						
4	ITEM #52.1	YES						
5	ITEM 71.1		YES					
6	HMUA						YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	ITEM #17.1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H VENTED HINGED.
2	# 2	ITEM 32.1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H VENTED HINGED.
3	# 3	ITEM 32.2	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED HINGED.
4	# 4	ITEM #52.1	92 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED 16 GAUGE.
5	# 5	ITEM 71.1	27 LBS	CURB	19.500"W X 19.500"L X 20.000"H VENTED.
6	# 6	HMUA	76 LBS	CURB	31.000"W X 79.000"L X 15.000"H INSULATED.

FANS #1 (ITEM #17.1), #2 (ITEM 32.1) – DU85HFA EXHAUST FAN





TOP VIEW

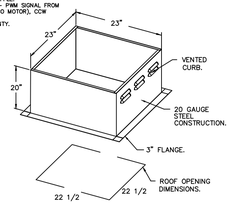
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC–S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

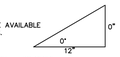
ABNORMAL FLARE–UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX.
EXHAUST FAN HEAT BAFFLE.
ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
2 YEAR PARTS WARRANTY.

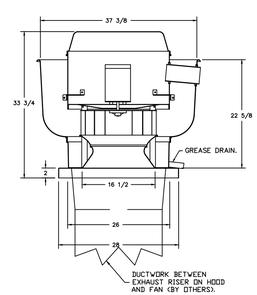


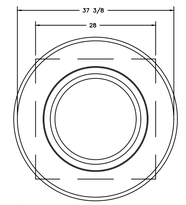
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



FAN #3 DU180HFA – EXHAUST FAN (ITEM 32.2)





TOP VIEW

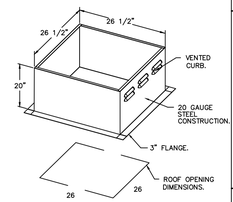
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL762 AND ULC–S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE–UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

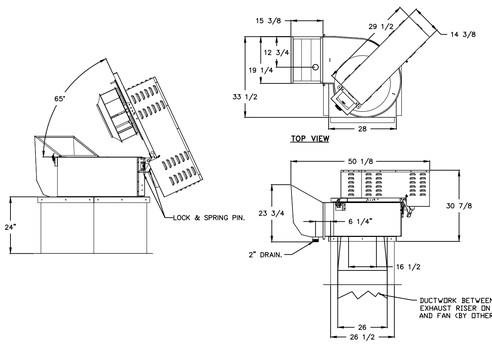
OPTIONS
GREASE BOX.
EXHAUST FAN HEAT BAFFLE.
2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

FAN #4 CASRE18DD – EXHAUST FAN (ITEM #52.1)



TOP VIEW

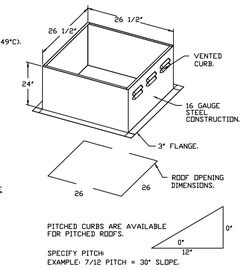
FEATURES:

- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL762 AND ULC–S645.
- HIGH HEAT OPERATION DIRECT DRIVE 300°F (149°C).
- HEAT SLINGER.
- GREASE CLASSIFICATION TESTING.
- TILT OUT WHEEL.
- LOCKING PIN FOR POWER PACK.
- MOTOR WEATHER COVER.
- INTERLOCKED DISCONNECT SWITCH.
- NEMA 4X SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE–UP TEST BELT & DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

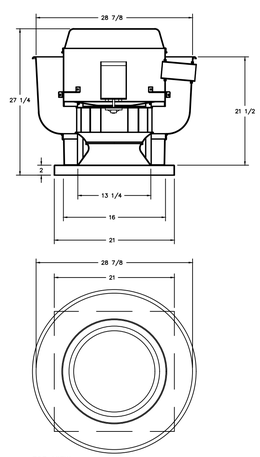
OPTIONS
UTILITY SET GREASE CUP.
2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

FAN #5 DU50HFA – EXHAUST FAN (ITEM 71.1)

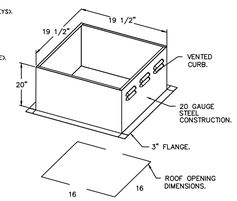


TOP VIEW

FEATURES:

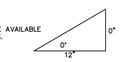
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.

OPTIONS
ECM WIRING PACKAGE – EXHAUST – MANUAL OR 0–10VDC REFERENCE SPEED CONTROL –MSC– (TELCO), CCW ROTATION.
I 15–BDD DAMPER.
SCR–13 BIRD SCREEN.
2 YEAR PARTS WARRANTY.

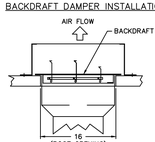


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



BACKDRAFT DAMPER INSTALLATION



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
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Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

Mechanical Details

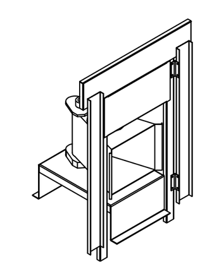
M203

FAN #6 A2-D.500-20D – HEATER (HMUA)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE – AIR FLOW RIGHT -> LEFT.
4. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
8. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
11. 2 YEAR PARTS WARRANTY.

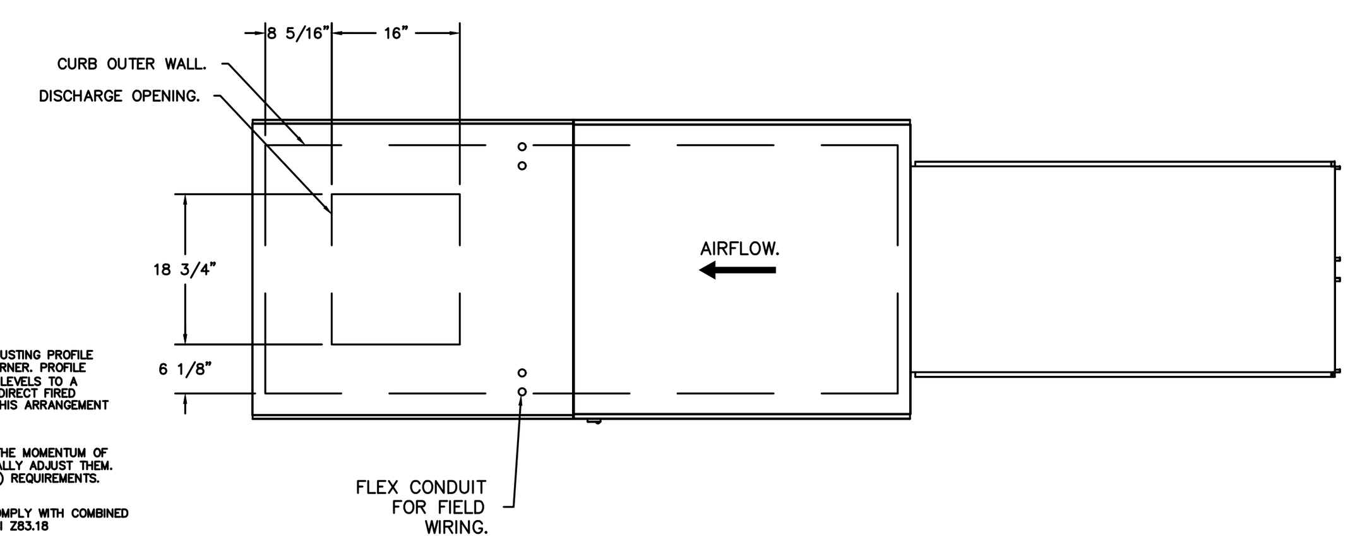
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 20°F. TEMP. RISE = 55°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 347969.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 378227.
OUTPUT BTUs AT ALTITUDE OF 924 FT. = 336506.
INPUT BTUs AT ALTITUDE OF 924 FT. = 365768.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY



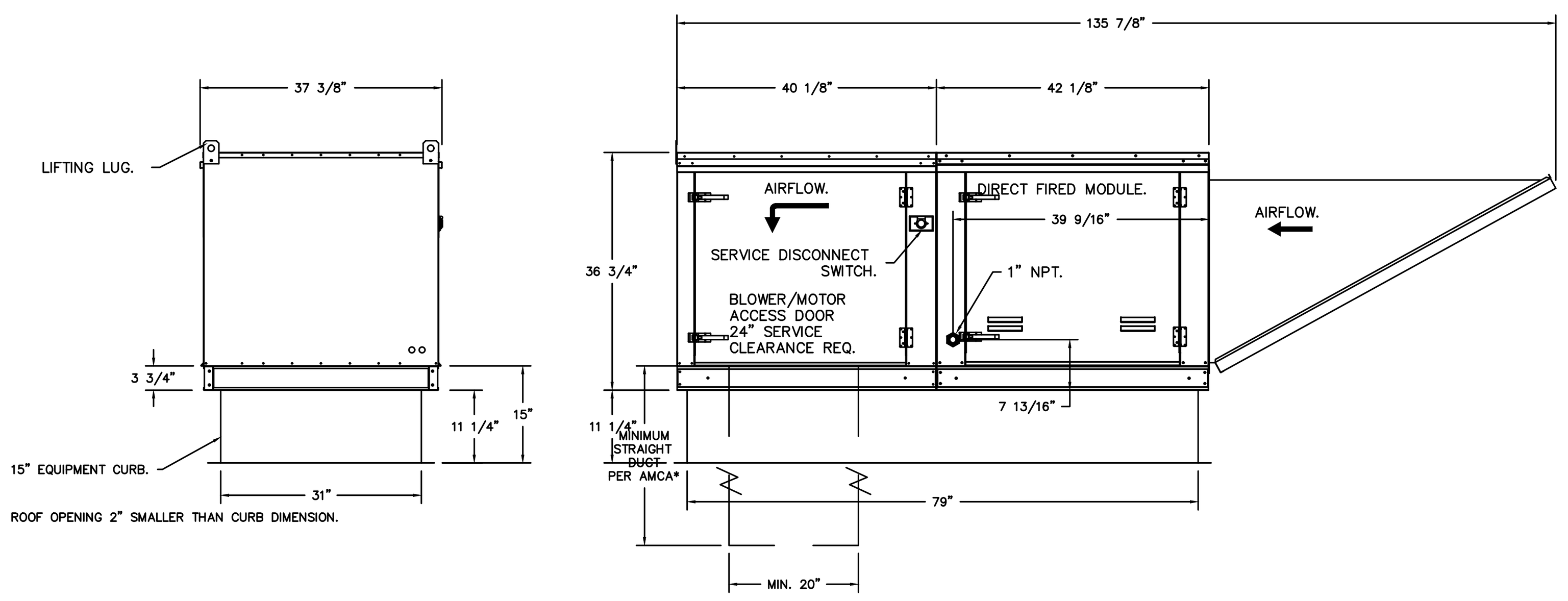
DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

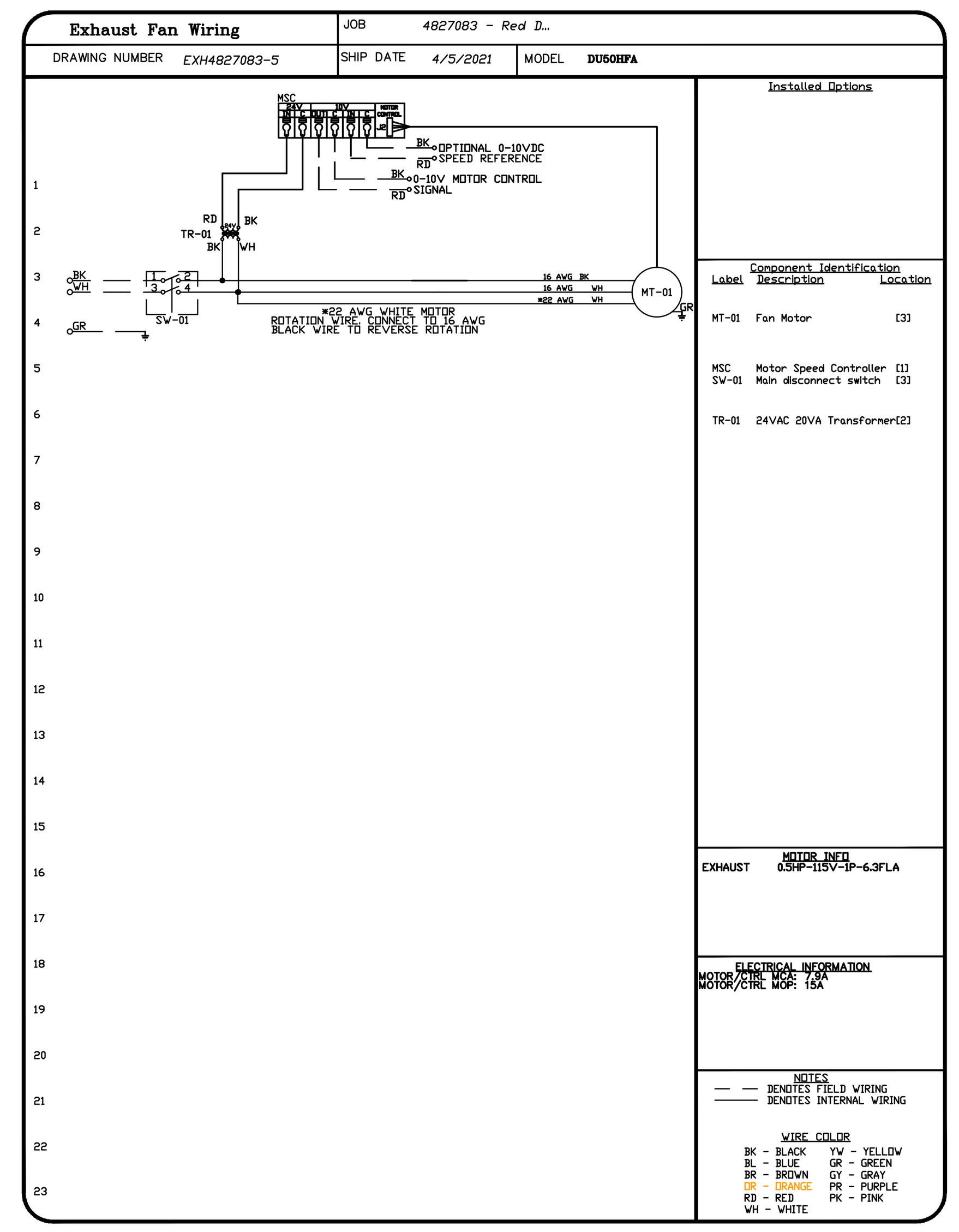
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO.: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

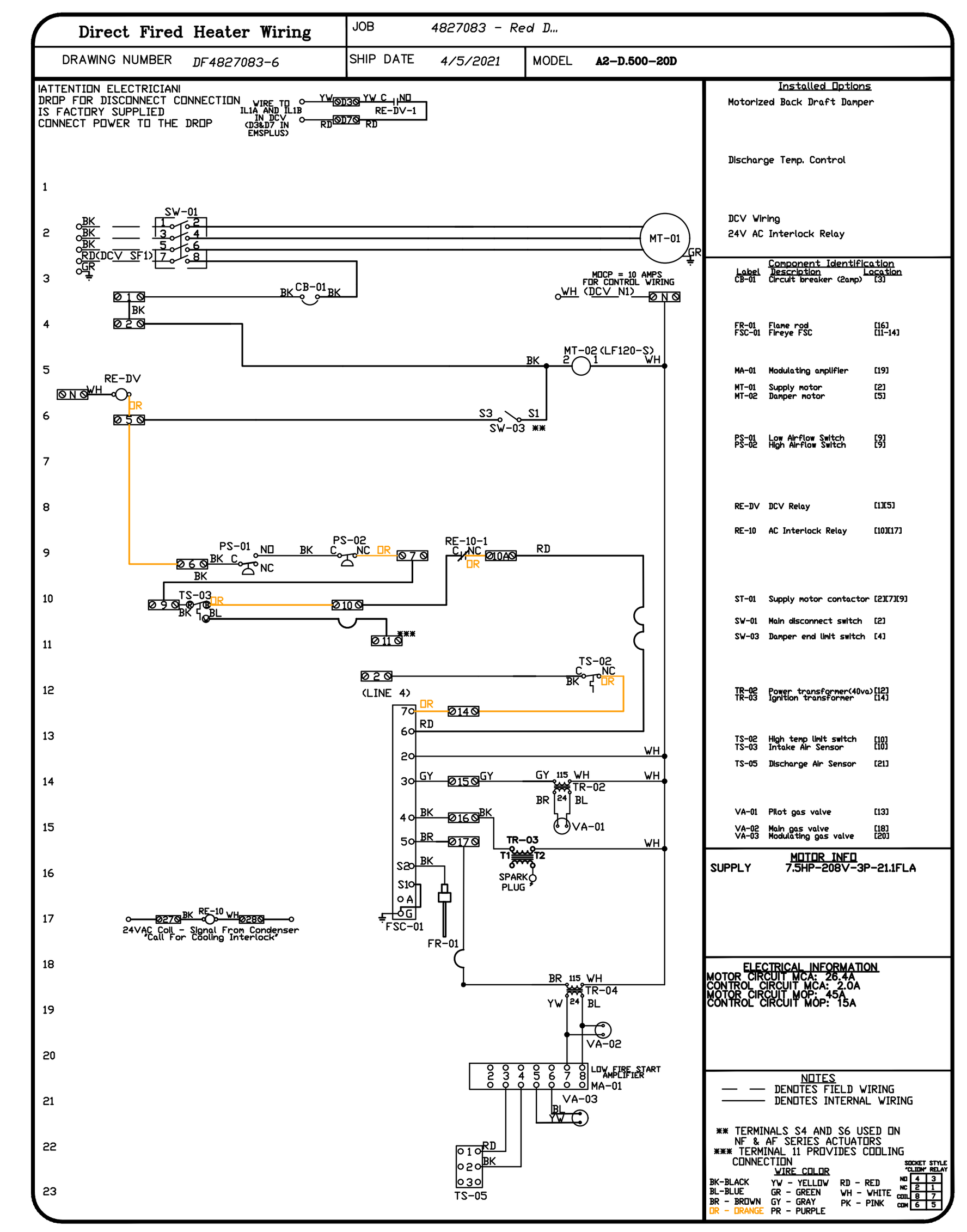
APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

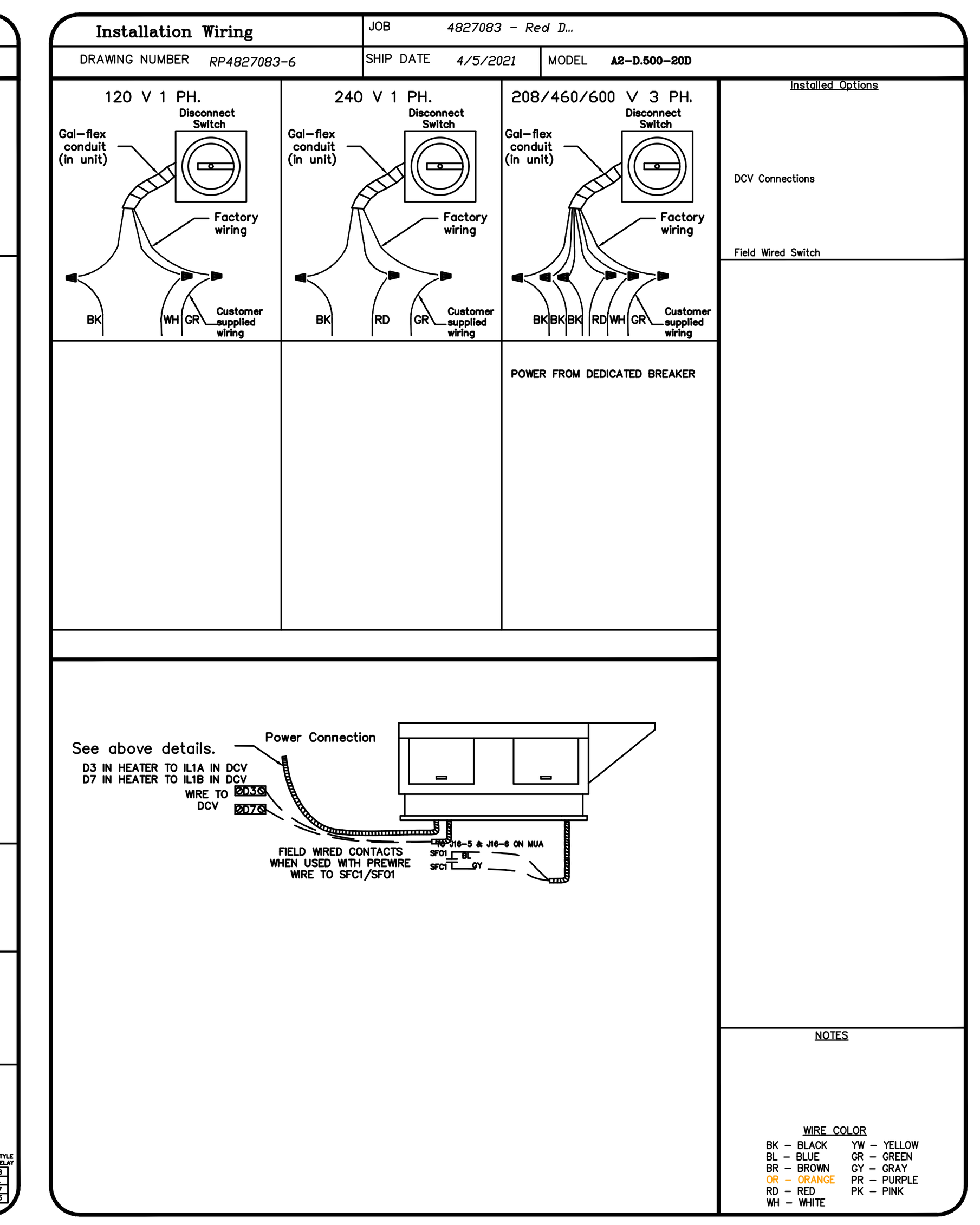
CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

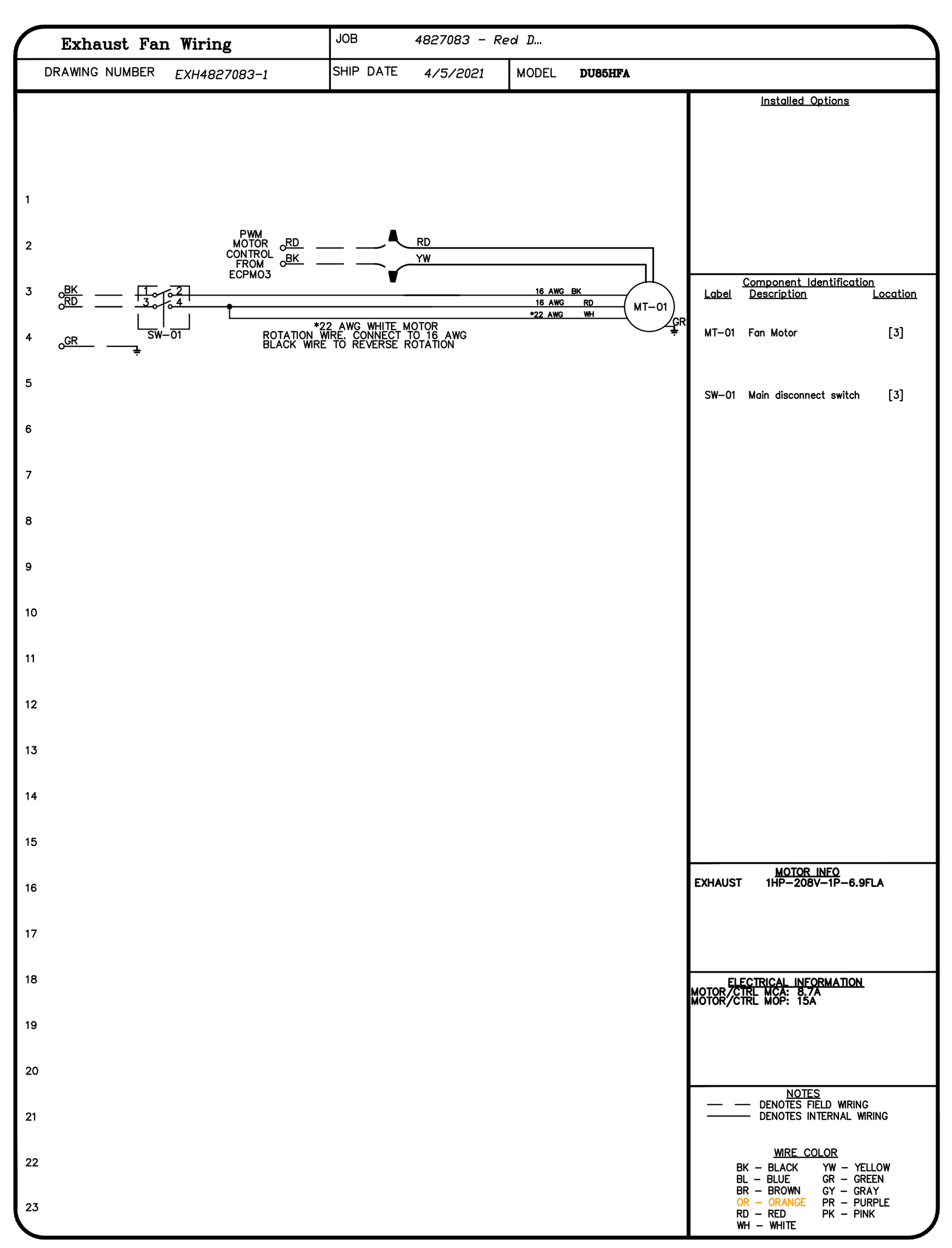
GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

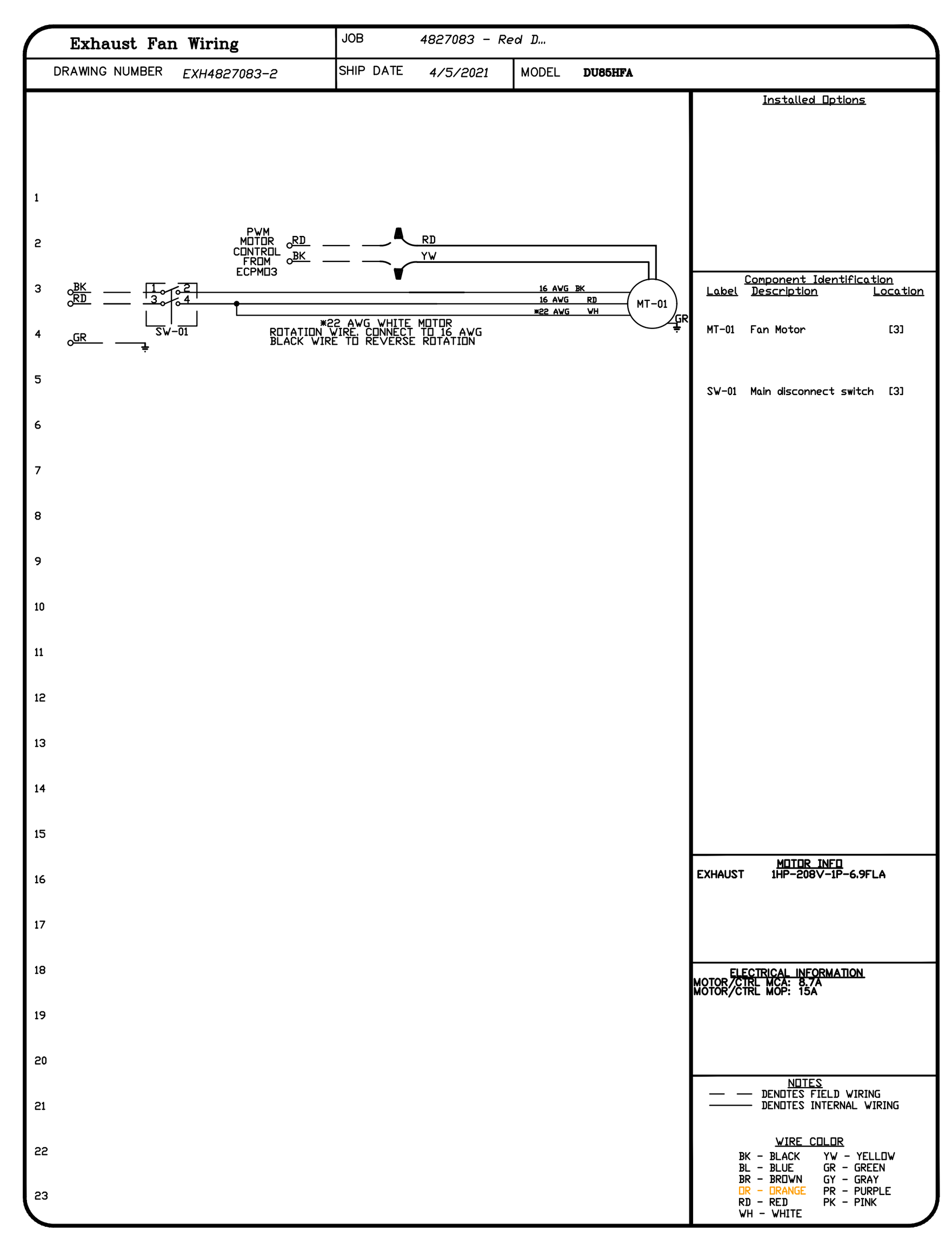


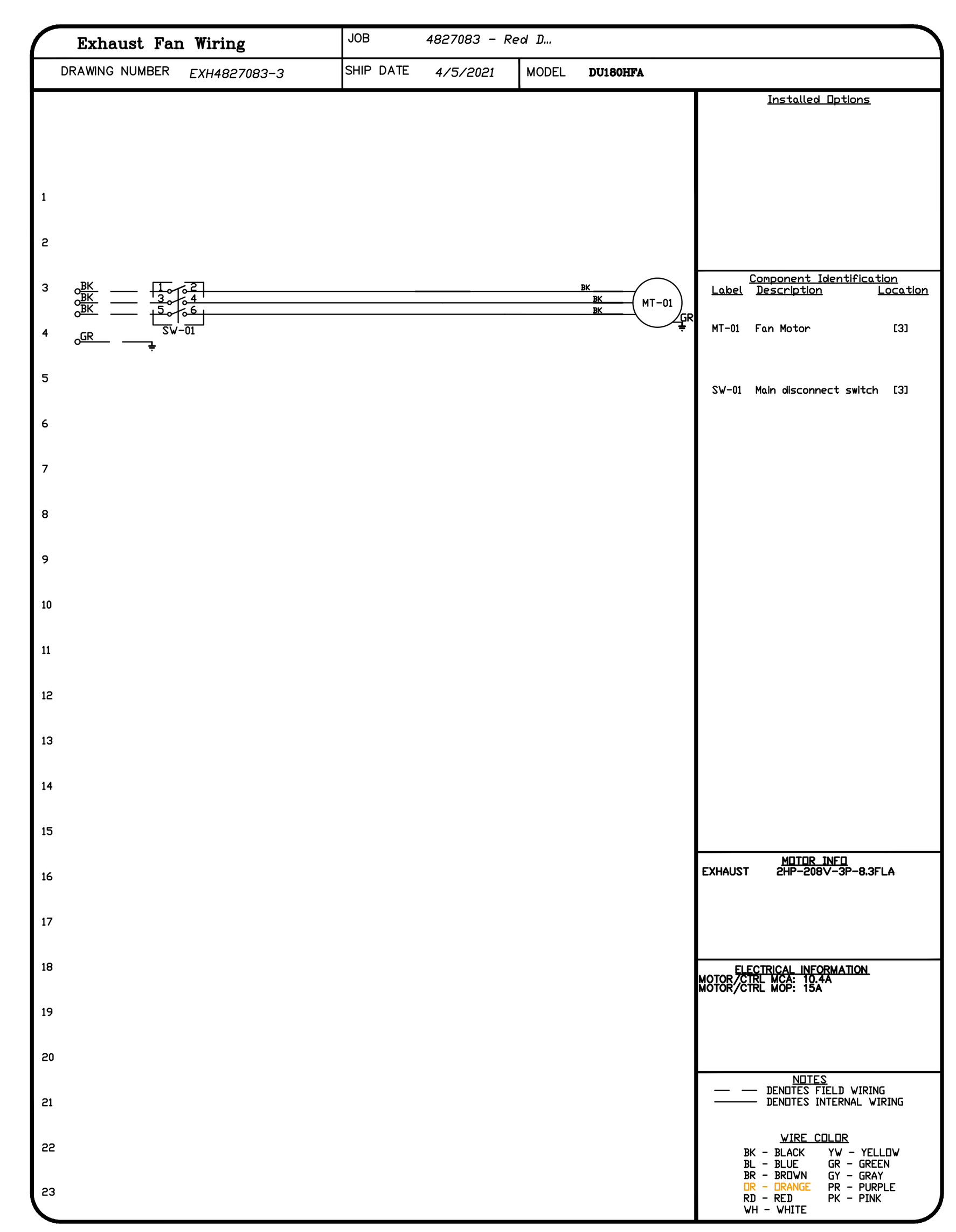


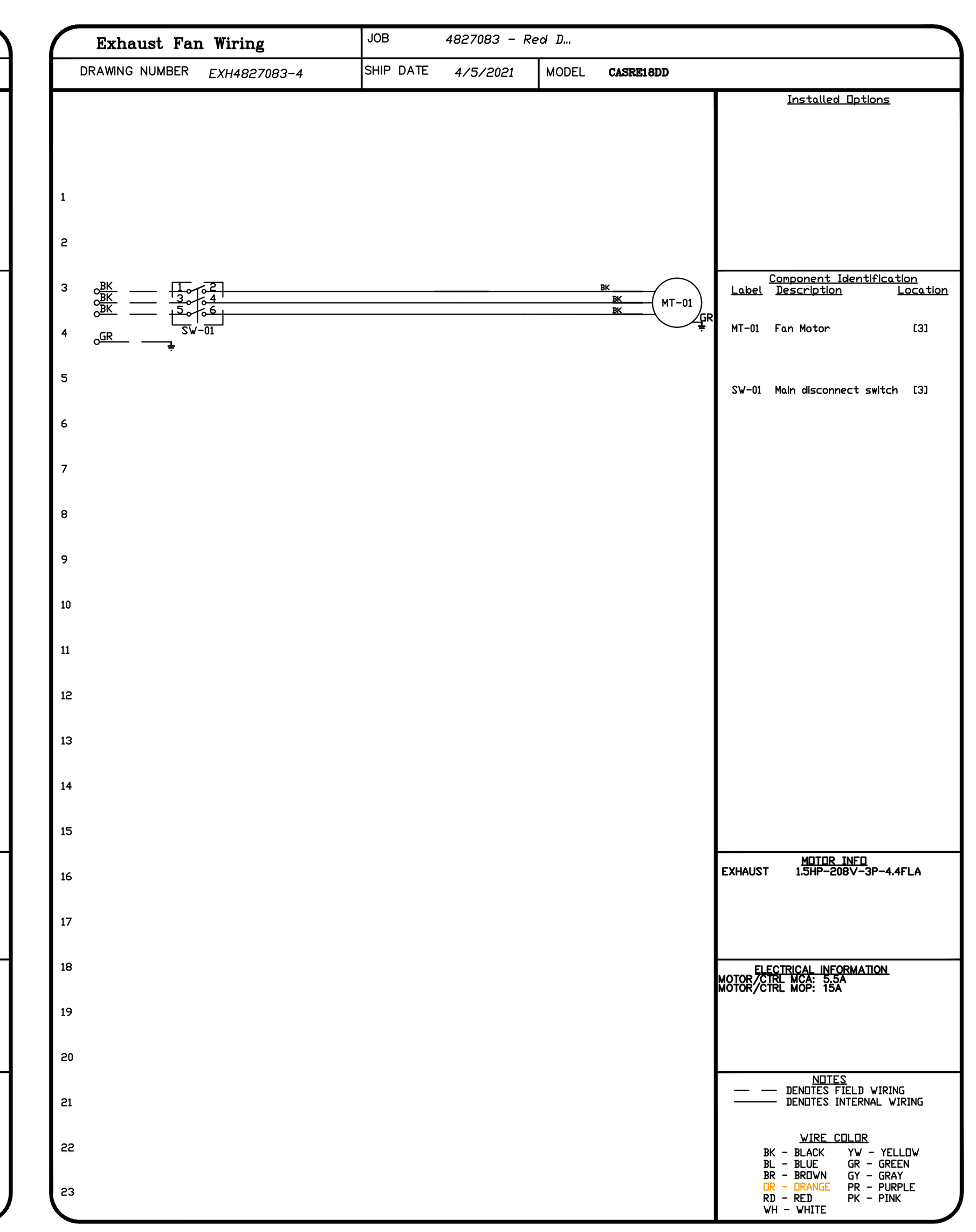












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Construction Documents
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Lee's Summit, MO

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Missouri Certificate of Authority: #

PROJECT NUMBER:	20-033
ISSUE DATE:	10 March, 2021

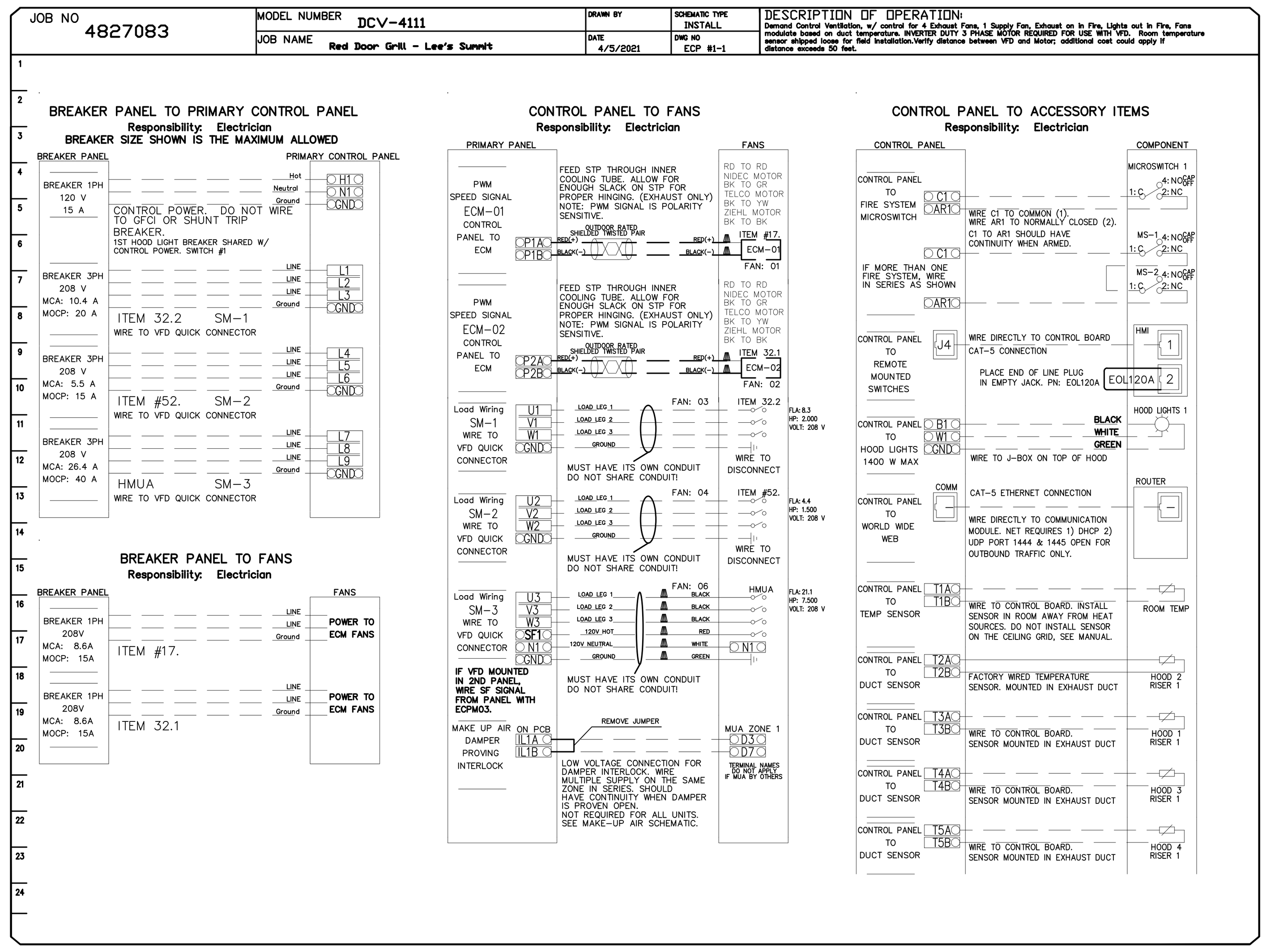
REVISIONS		DATE
1 Bid/Permit Set		04.16.2021

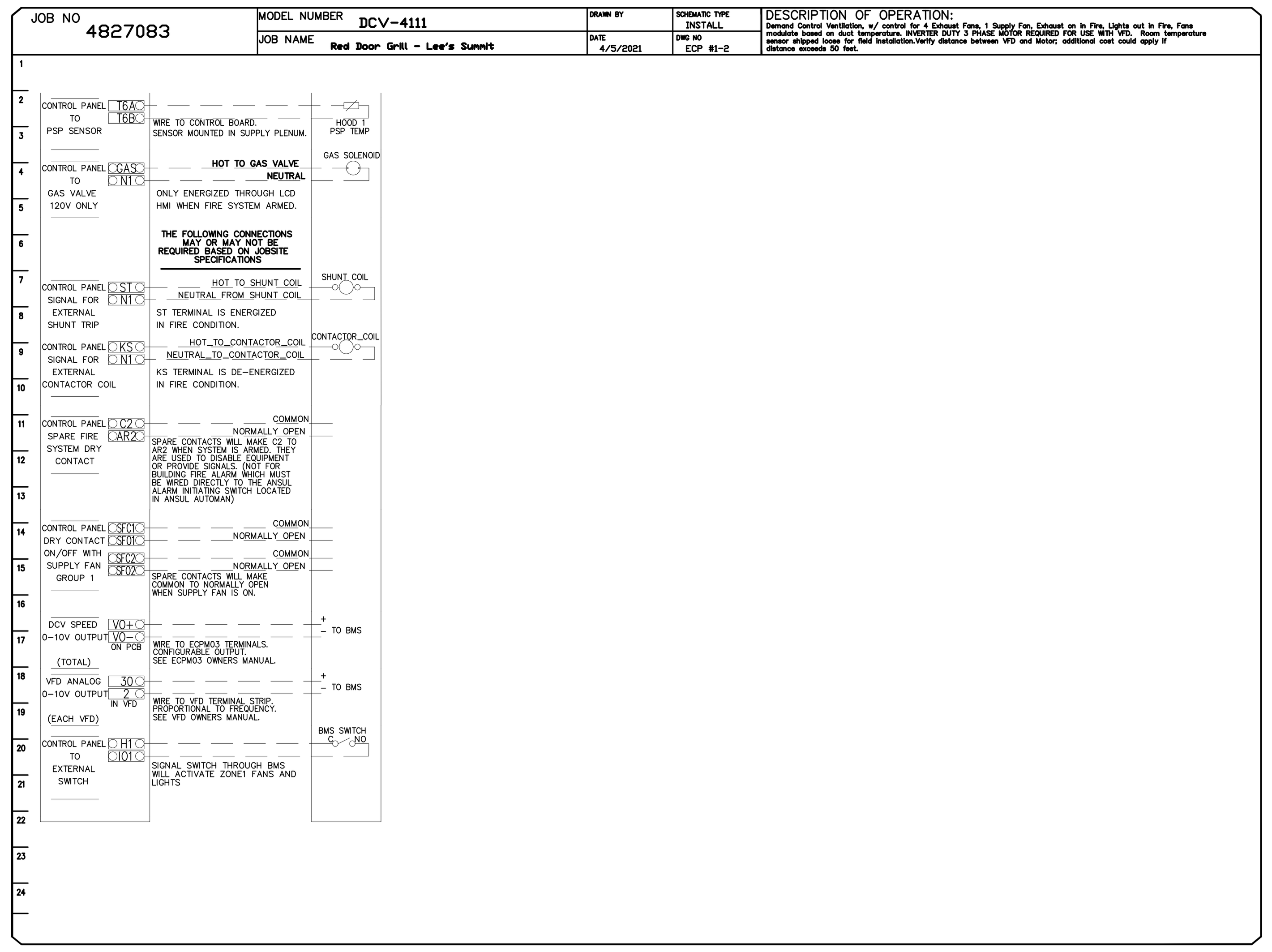
Mechanical Details

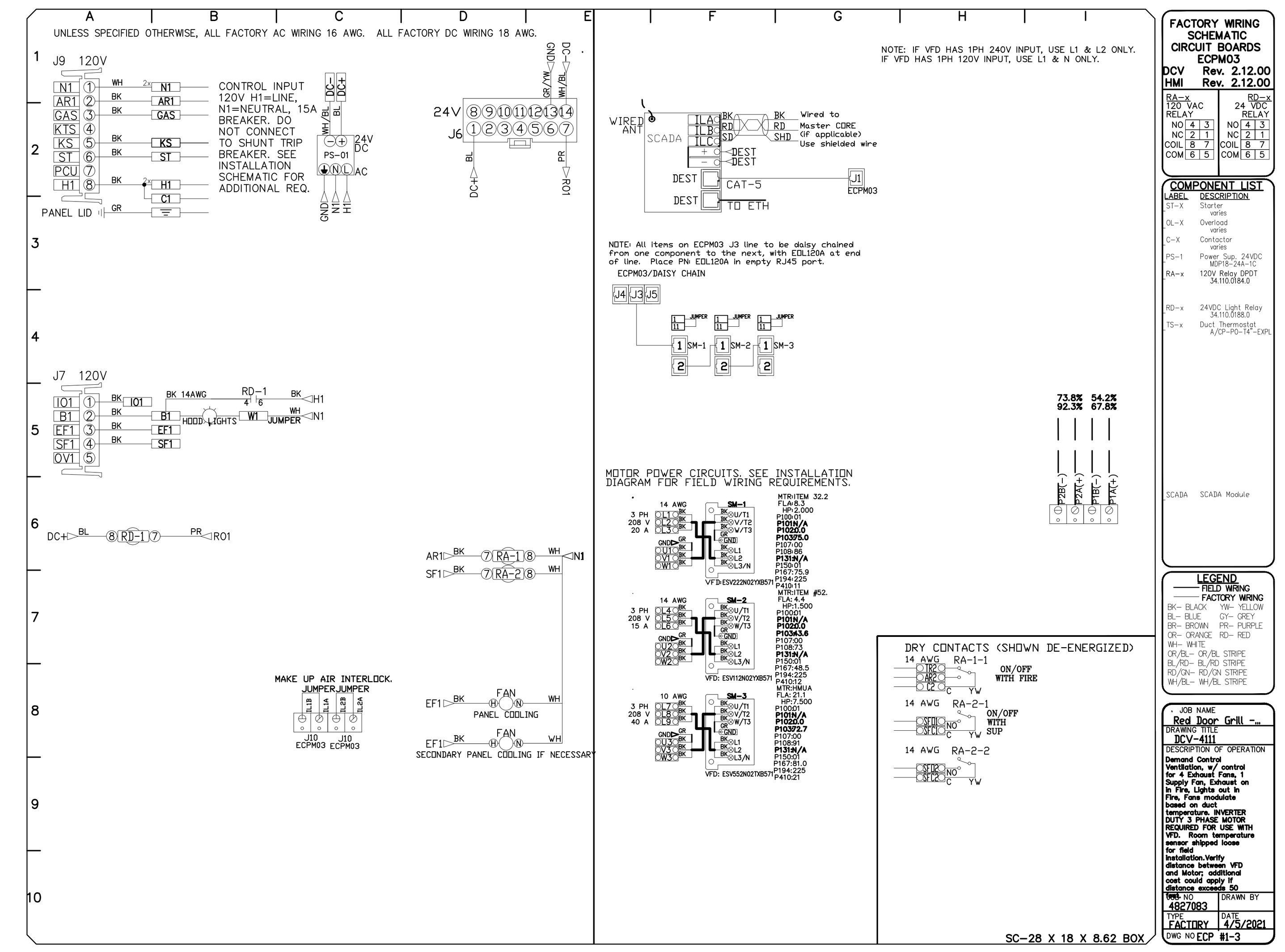
M204

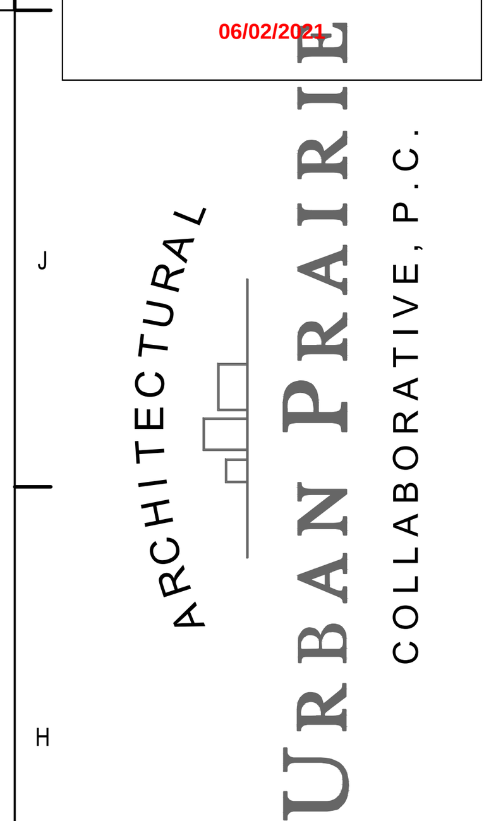
ELECTRICAL PACKAGE – JOB#4827083

NO	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FAN TAG	TYPE	Φ	HP	VOLT	FLA
1	EC1	DCV-4111	UTILITY CABINET LEFT	08 – SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS DCV	ITEM #17.1	EXHAUST	1	1.000	208	6.9
							ITEM 32.1	EXHAUST	1	1.000	208	6.9
							ITEM 32.2	EXHAUST	3	2.000	208	8.3
							ITEM #52.1	EXHAUST	3	1.500	208	4.4
							HMUA	SUPPLY	3	7.500	208	21.1



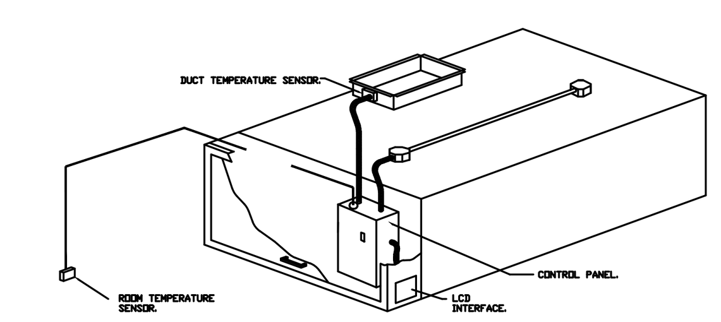






DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.

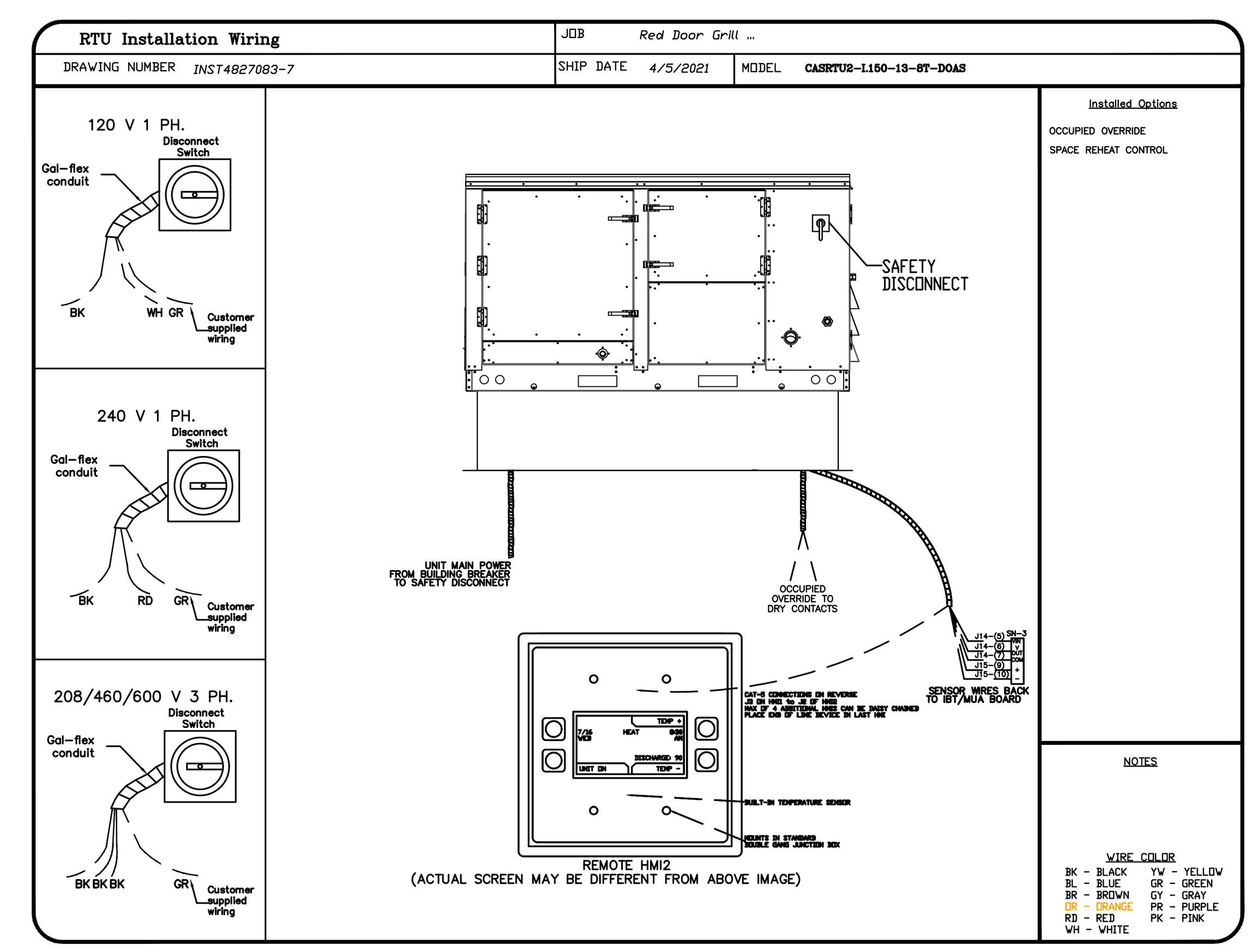


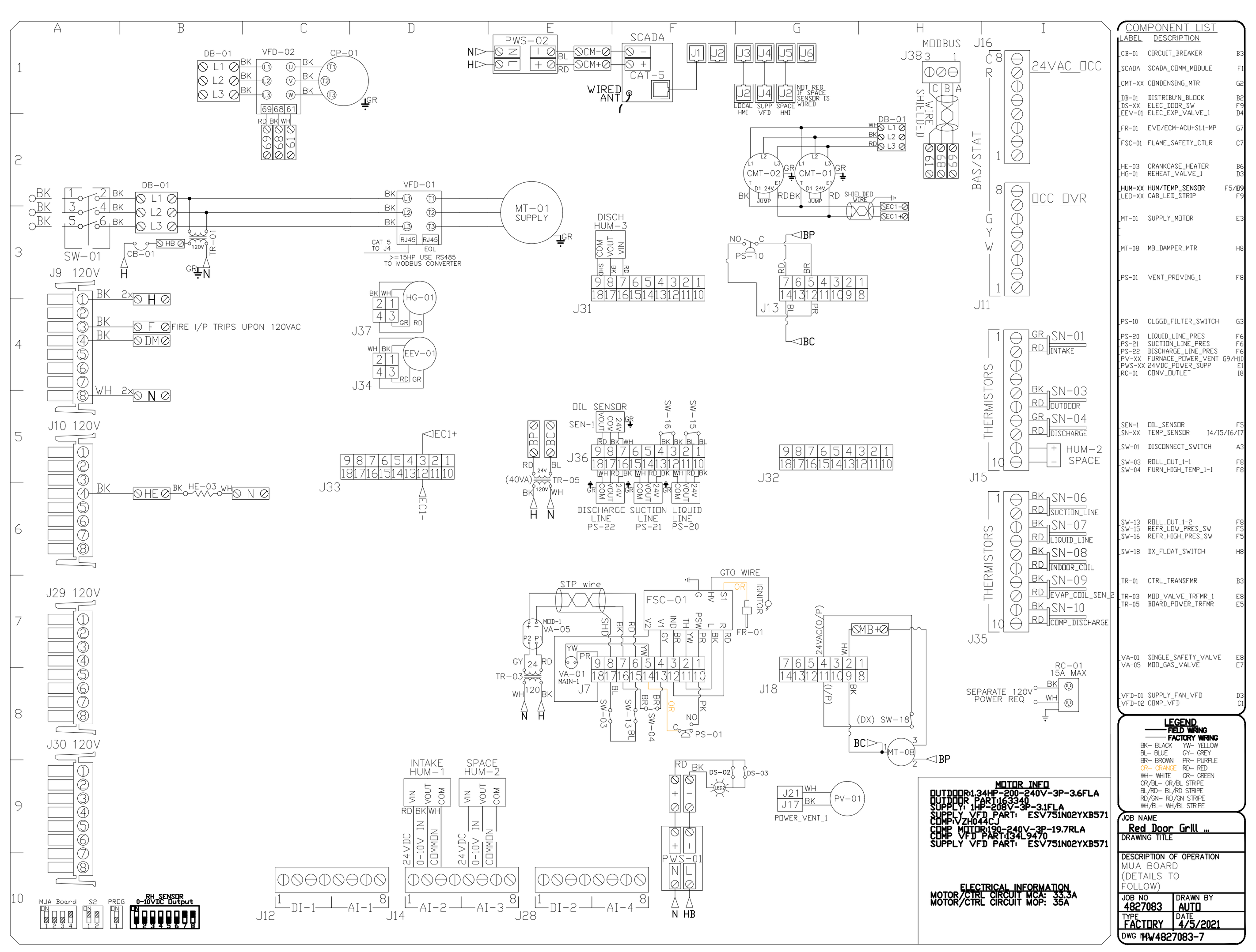
TYPICAL HOOD CONTROL PANEL INSTALLATION

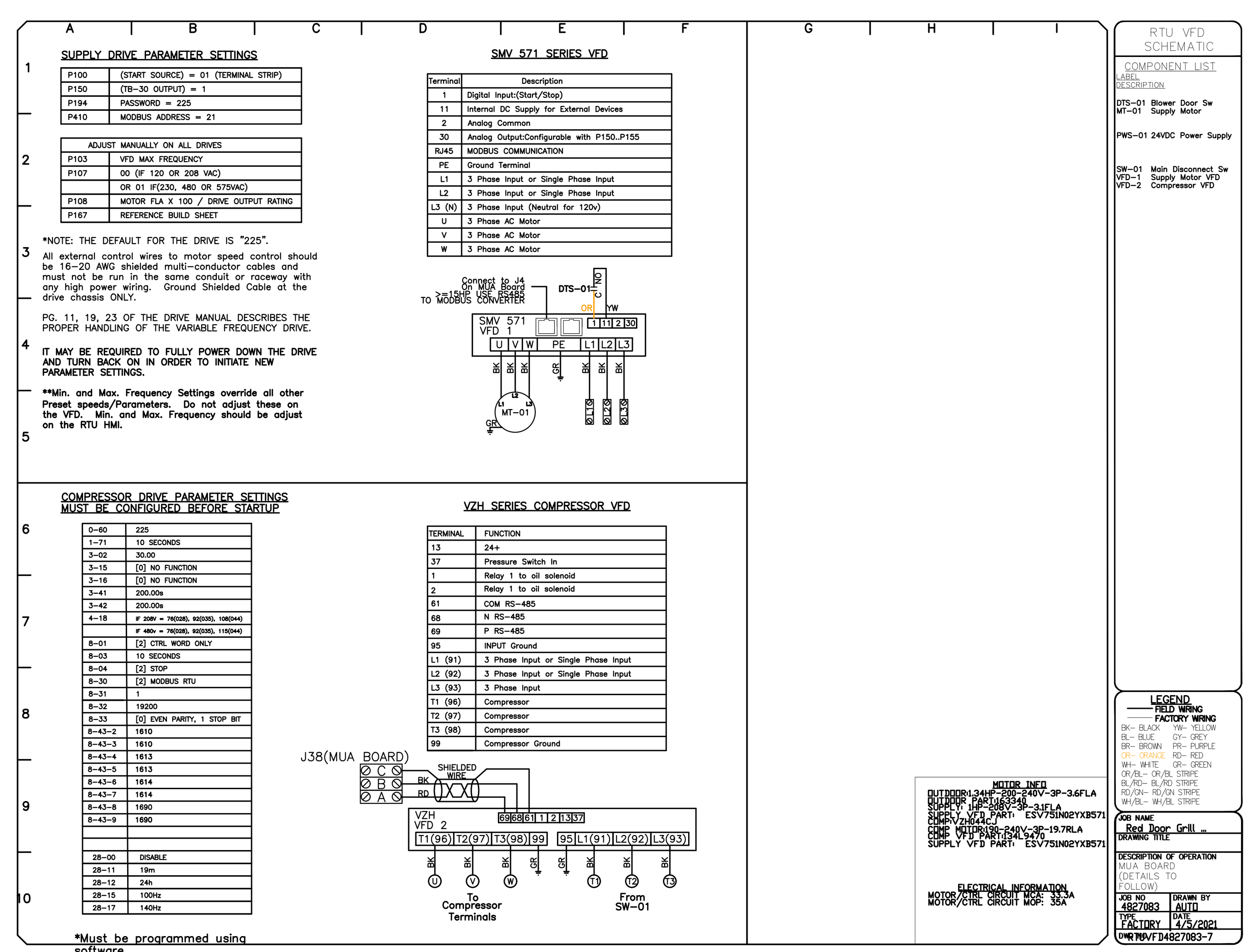
SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS 'DYNAMIC', THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS 'STATIC', FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.







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REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

Mechanical Details

M205

MECHANICAL SPECIFICATIONS

1. COMMON WORK RESULTS FOR HVAC

PRODUCTS

PIPE, TUBE, AND FITTINGS
Pipe Threads: ASME B1.20.1 for factory-threaded pipe and pipe fittings.

JOINING MATERIALS
Brazing Filler Metals: AWS A5.8, BCuP Series or BAg1, unless otherwise indicated.

Welding Filler Metals: Comply with AWS D10.12.

Solvent Cements for Joining Plastic Piping:
CPVC Piping: ASTM F 493.
PVC Piping: ASTM D 2564. Include primer according to ASTM F 656.

MECHANICAL SLEEVE SEALS
Description: Modular sealing element unit, designed for field assembly, to fill annular space between pipe and sleeve.

Sealing Elements: EPDM interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size of pipe.

Pressure Plates: Plastic. Include two for each sealing element.

Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

SLEEVES

Cast Iron: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.

Stack Sleeve Fittings: Manufactured, cast-iron sleeve with integral clamping flange. Include clamping ring and bolts and nuts for membrane flashing.

EXECUTION

PIPING SYSTEMS - COMMON REQUIREMENTS
Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.
Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections.
Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Install sleeves for pipes passing through concrete and masonry walls, gypsum-board partitions, and concrete floor and roof slabs. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Verify final equipment locations for roughing-in. Refer to manufacturer's equipment specifications for roughing-in requirements.

PIPING JOINT CONSTRUCTION
Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

Welded Joints: Construct joints according to AWS D10.12, using qualified processes and welding operators according to Part 1 "Quality Assurance" Article.

PIPING CONNECTIONS
Install shut off valves with unions, in piping, adjacent to each valve and at final connection to each piece of equipment Install shut off valves with unions, in piping, adjacent to each valve and at final connection to each piece of equipment.

EQUIPMENT INSTALLATION - COMMON REQUIREMENTS
Install equipment to allow maximum possible headroom unless specific mounting heights are not indicated. Install equipment level and plumb, parallel and perpendicular to other building systems and components in exposed interior spaces, unless otherwise indicated.
Install HVAC equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Extend grease fittings to accessible locations. Install equipment to allow right of way for piping installed at required slope.

2. HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT

DEFINITIONS
Terminology: As defined in MSS SP-90, "Guidelines on Terminology for Pipe Hangers and Supports."

PERFORMANCE REQUIREMENTS

Design supports for multiple pipes capable of supporting combined weight of supported systems, system contents, and test water.
Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.

PRODUCTS

STEEL PIPE HANGERS AND SUPPORTS
Description: MSS SP-58, Types 1 through 58, factory-fabricated components. Refer to Part 3 "Hanger and Support Applications" Article for where to use specific hanger and support types.

TRAPEZE PIPE HANGERS
Description: MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural-steel shapes with MSS SP-58 hanger rods, nuts, saddles, and U-bolts.

METAL FRAMING SYSTEMS
Description: MFMA-3, shop- or field-fabricated pipe-support assembly made of steel channels and other components.

EXECUTION
HANGER AND SUPPORT APPLICATIONS
Specific hanger and support requirements are specified in Sections specifying piping systems and equipment. Comply with MSS SP-69 for pipe hanger selections and applications that are not specified in piping system Sections. Use hangers and supports with galvanized, metallic coatings for piping and equipment that will not have field-applied finish. Use nonmetallic coatings on attachments for electrolytic protection where attachments are in direct contact with copper tubing.

Horizontal-Piping Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated stationary pipes, NPS 1/2 to NPS 30 (DN 15 to DN 750). Adjustable, Steel Band Hangers (MSS Type 7): For suspension of noninsulated stationary pipes, NPS 1/2 to NPS 8 (DN 15 to DN 200).
Complete Pipe Rolls (MSS Type 44): For support of pipes, NPS 2 to NPS 42 (DN 50 to DN 1050), if longitudinal movement caused by expansion and contraction might occur but vertical adjustment is not necessary.

Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

Hanger-Rod Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

Steel Clevises (MSS Type 14): For 120 to 450 deg F (49 to 232 deg C) piping installations.

Building Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

Saddles and Shields: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Steel Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation.
Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation. Thermal-Hanger Shield Inserts: For supporting insulated pipe.

Comply with MSS SP-69 for trapeze pipe hanger selections and applications that are not specified in piping system Sections.

3. HVAC INSULATION

PRODUCTS

INSULATION MATERIALS
Comply with requirements in Part 3 schedule articles for where insulating materials shall be applied.

FiberGlass: Inorganic, incombustible, foamed or cellulated glass with annealed, rigid, hermetically sealed cells, with factory applied All Service Jacket (ASJ) painted in color selected by architect.

Flexible Elastomeric: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534,
Type I for tubular materials and Type II for sheet materials.

FIRE-RATED INSULATION SYSTEMS
Fire-Rated Blanket: High-temperature, flexible, blanket insulation with FSK jacket that is tested and certified to provide a 2-hour fire rating by a NRTL acceptable to authority having jurisdiction.

INSULATING CEMENTS
Mineral-Fiber, Hydraulic-Setting Insulating and Finishing Cement: Comply with ASTM C 449/C 449M.

ADHESIVES
Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated.

Cellular-Glass Adhesive: Solvent-based resin adhesive, with a service temperature range of minus 75 to plus 300 deg F (minus 59 to plus 149 deg C).

Flexible Elastomeric Adhesive: Comply with MIL-A-24179A, Type II, Class I.

ASJ Adhesive: Comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints.
For indoor applications, use adhesive that has a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

MASTICS
Materials shall be compatible with insulation materials, jackets, and substrates; comply with MIL-C-19565C, Type II.

Vapor-Barrier Mastic: Water based; suitable for indoor and outdoor use on below ambient services.

SEALANTS
Joint Sealants: Materials shall be compatible with insulation materials, jackets, and substrates.

FACTORY-APPLIED JACKETS
Insulation system schedules indicate factory-applied jackets on various applications. When factory-applied jackets are indicated, comply with the following:
ASJ: White, kraft-paper, fiberglass-reinforced scrim with aluminum-foil backing; complying with ASTM C 1136, Type I.

TAPES
ASJ Tape: White vapor-retarder tape matching factory-applied jacket with acrylic adhesive, complying with ASTM C 1136.

EXECUTION

PREPARATION
Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

Coordinate insulation installation with the trade installing heat tracing. Comply with requirements for heat tracing that apply to insulation.

Mix insulating cements with clean potable water; if insulating cements are to be in contact with stainless-steel surfaces, use demineralized water.

GENERAL INSTALLATION REQUIREMENTS
Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of equipment, ducts and fittings, and piping including fittings, valves, and specialties.
Install insulation materials, forms, vapor barriers or retarders, jackets, and thicknesses required for each item of equipment, duct system, and pipe system as specified in insulation system schedules.
Install accessories compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state.
Install insulation with longitudinal seams at top and bottom of horizontal runs.
Install multiple layers of insulation with longitudinal and end seams staggered.
Do not weld brackets, clips, or other attachment devices to piping, fittings, and specialties.
Keep insulation materials dry during application and finishing.
Install insulation with tight longitudinal seams and end joints. Bond seams and joints with adhesive recommended by insulation material manufacturer.
Install insulation with least number of joints practical.

Where vapor barrier is indicated, seal joints, seams, and penetrations in insulation at hangers, supports, anchors, and other projections with vapor-barrier mastic.
Install insulation continuously through hangers and around anchor attachments.

For insulation application where vapor barriers are indicated, extend insulation on anchor legs from point of attachment to supported item to point of attachment to structure. Taper and seal ends at attachment to structure with vapor-barrier mastic.

Install insert materials and install insulation to tightly join the insert. Seal insulation to insulation inserts with adhesive or sealing compound recommended by insulation material manufacturer.

Cover inserts with jacket material matching adjacent pipe insulation. Install shields over jacket, arranged to protect jacket from tear or puncture by hanger, support, and shield.

Apply adhesives, mastics, and sealants at manufacturer's recommended coverage rate and wet and dry film thicknesses. Apply mastic on seams and joints and at ends adjacent to duct and pipe flanges and fittings.

Cut insulation in a manner to avoid compressing insulation more than 75 percent of its nominal thickness.
Finish installation with systems at operating conditions. Repair joint separations and cracking due to thermal movement.

Repair damaged insulation facings by applying same facing material over damaged areas. Extend patches at least 4 inches (100 mm) beyond damaged areas. Adhere, staple, and seal patches similar to butt joints.

PENETRATIONS
Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated):
Install insulation continuously through walls and partitions.

Insulation Installation at Fire-Rated Wall and Partition Penetrations: Install insulation continuously through penetrations of fire-rated walls and partitions. Terminate insulation at fire damper sleeves for fire-rated wall and partition penetrations. Externally insulate damper sleeves to match adjacent insulation and overlap duct insulation at least 2 inches (50 mm).
Insulation Installation at Floor Penetrations:
Duct: Install insulation continuously through floor penetrations that are not fire rated. For penetrations through fire-rated assemblies, terminate insulation at fire damper sleeves and externally insulate damper sleeve beyond floor to match adjacent duct insulation. Overlap damper sleeve and duct insulation at least 2 inches (50 mm).

Pipe: Install insulation continuously through floor penetrations.
Seal penetrations through fire-rated assemblies.

DUCT INSULATION SCHEDULE, GENERAL
Plenums and Ducts Requiring Insulation:
Indoor, concealed supply and outdoor air.
Indoor, exposed outdoor air.
Indoor, concealed return located in nonconditioned space.
Indoor, concealed, Type I, commercial, kitchen hood exhaust.

INDOOR DUCT AND PLENUM INSULATION SCHEDULE
Supply-Air, Return-Air and Make Up Air Duct Insulation: Fiberglass blanket, 1-1/2 inches (38 mm) thick and 1.5-lb/cu. ft. (24-kg/cu. M) nominal density.

Kitchen Hood Exhaust Duct Insulation: 2 hour fire-rated blanket.

PIPING INSULATION SCHEDULE, GENERAL
Acceptable preformed pipe and tubular insulation materials and thicknesses are identified for each piping system and pipe size range. If more than one material is listed for a piping system, selection from materials listed is Contractor's option.

INDOOR PIPING INSULATION SCHEDULE
Domestic Cold Water, Hot Water and Hot Water Recirc. FiberGlass: 3/4 inches) thick.

Refrigerant Suction and Hot-Gas Piping: Flexible elastomeric.

4. DOMESTIC WATER PIPING

PRODUCTS

PIPING MATERIALS
Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, fitting materials, and joining methods for specific services, service locations, and pipe sizes.

COPPER TUBE AND FITTINGS
Hard Copper Tube: ASTM B 88, Type L (ASTM B 88M, Type B)
Soft Copper Tube: ASTM B 88, Type K (ASTM B 88M, Type A)

PIPING JOINING MATERIALS
Solder Filler Metals: ASTM B 32, lead-free alloys. Include water-flushable flux according to ASTM B 813.

FLEXIBLE CONNECTORS
Stainless-Steel-Hose Flexible Connectors: Corrugated-stainless-steel tubing with stainless-steel wire-braid covering and ends welded to inner tubing.

SLEEVES
Cast-Iron Wall Pipes: Fabricated of cast iron, and equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop unless otherwise indicated.

EXECUTION

PIPING INSTALLATION
Install copper tubing under building slab according to CDA's "Copper Tube Handbook."
Install piping concealed from view and protected from physical contact by building occupants unless otherwise indicated and except in equipment rooms and service areas.
Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or Install piping above accessible ceilings to allow sufficient space for ceiling panel removal, and coordinate with other services occupying that space.
Install piping adjacent to equipment and specialties to allow service and maintenance.
Install piping to permit valve servicing. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install shut off valves with unions in copper tubing at final connection to each piece of equipment, machine, and specialty.
Install thermostats in hot-water circulation piping. Install thermometers on outlet piping from water heater. Comply with requirements in

JOINT CONSTRUCTION
Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.

Soldered Joints: Apply ASTM B 813, water-flushable flux to end of tube. Join copper tube and fittings according to ASTM B 828 or CDA's "Copper Tube Handbook."

VALVE INSTALLATION
Install shutoff (ball) valve close to water main on each branch and riser serving plumbing fixtures or equipment, on each water supply to equipment, and on each water supply to plumbing fixtures that do not have supply stops.

Install drain valves for equipment at base of each water riser, at low points in horizontal piping, and where required to drain water piping.

TRANSITION FITTING INSTALLATION
Install transition couplings at joints of dissimilar piping.

FLEXIBLE CONNECTOR INSTALLATION
Install flexible connectors in suction and discharge piping connections to each domestic water pump.
Install bronze-hose flexible connectors in copper domestic water tubing.
Install stainless-steel-hose flexible connectors in steel domestic water piping.

CONNECTIONS
Drawings indicate general arrangement of piping, fittings, and specialties.
Install piping adjacent to equipment and machines to allow service and maintenance.
Connect domestic water piping to exterior water-service piping. Use transition fitting to join dissimilar piping materials.

ESCUTCHEON INSTALLATION
Install escutcheons for penetrations of walls, ceilings, and floors.

PIPING SCHEDULE
Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.
Under-building-slab, domestic water, building service piping shall be Soft copper tube:

Aboveground domestic water piping, shall be Hard copper tube, ASTM B 88, Type L.
Aboveground 140 deg F domestic water piping, shall be Hard copper tube, ASTM B 88, Type L.

VALVE SCHEDULE
Drawings indicate valve types to be used. Where specific valve types are not indicated, the following requirements apply:
Shutoff Duty: Use ball valves for piping NPS 2 (DN 50) and smaller. Use butterfly, ball, or gate valves with flanged ends for piping NPS 2-1/2 (DN 65) and larger.
Throttling Duty: Use ball valves for piping NPS 2 (DN 50) and smaller. Use butterfly or ball valves with flanged ends for piping NPS 2-1/2 (DN 65) and larger.
Hot-Water Circulation Piping, Balancing Duty: Memory-stop balancing valves.
Drain Duty: Hose-end drain valves.

Use check valves to maintain correct direction of domestic water flow to and from equipment.
Iron grooved-end valves may be used with grooved-end piping.
CPVC and PVC valves matching piping materials may be used.

5. INTERIOR SANITARY WASTE AND VENT PIPING

PRODUCTS

PIPING MATERIALS
Hubless Cast-Iron Pipe and Fittings: ASTM A 888 or CISPI 301.
PVC Pipe: ASTM D 2665, solid-wall drain, waste, and vent.

EXECUTION

PIPING APPLICATIONS
Aboveground, Interior, soil, waste, and vent piping shall be PVC Pipe with socket fittings and solvent welded joints. Underground, soil, waste, and vent shall be PVC Pipe with socket fittings and solvent welded joints.

PIPING INSTALLATION
Install cleanouts at grade and extend to where building sanitary drains connect to building sanitary sewers. Install wall penetration system at each service pipe penetration through foundation wall. Make installation watertight. Install cast-iron soil piping according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings." Make changes in direction for soil and waste drainage and vent piping using appropriate branches, bends, and long-sweep bends. Sanitary tees and short-sweep 1/4 bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Use long-turn, double Y-branch and 1/8-bend fittings if 2 fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Use proper size of standard increasers and reducers if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited. Lay buried building drainage piping beginning at low point of each system. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements. Maintain swab in piping and pull past each joint as completed.
Install soil and waste drainage and vent piping at the code required minimum slopes,
Sleeves are not required for cast-iron soil piping passing through concrete slabs-on-grade if slab is without membrane waterproofing. Install PVC soil and waste drainage and vent piping according to ASTM D 2665. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

JOINT CONSTRUCTION
Cast-Iron, Soil-Piping Joints: Make joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings."
PVC Nonpressure Piping Joints: Join piping according to ASTM D 2665.

6. FACILITY NATURAL-GAS PIPING

PRODUCTS

PIPES, TUBES, AND FITTINGS
Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B.

JOINING MATERIALS
Joint Compound and Tape: Suitable for natural gas.
Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.

MANUAL GAS SHUTOFF VALVES
Bronze Plug Valves: MSS SP-78.

MOTORIZED GAS VALVES
Electrically Operated Valves: Comply with UL 429.

EXECUTION

OUTDOOR PIPING INSTALLATION
Comply with NFPA 54 for installation and purging of natural-gas piping.

INDOOR PIPING INSTALLATION
Comply with NFPA 54 for installation and purging of natural-gas piping.
Arrange for pipe spaces, chases, slots, sleeves, and openings in building structure during progress of construction, to allow for mechanical installations. Install piping in concealed locations unless otherwise indicated and except in equipment rooms and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Locate valves for easy access. Install natural-gas piping at uniform grade of 2 percent down toward drip and sediment traps. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Verify final equipment locations for roughing-in. Drips and Sediment Traps: Install drips at points where condensate may collect, including service-meter outlets. Locate where accessible to permit cleaning and emptying. Do not install where condensate is subject to freezing. Extend relief vent connections for service regulators, line regulators, and verpressure protection devices to outdoors and terminate with weatherproof vent cap. Conceal pipe installations in walls, pipe spaces, utility spaces, above ceilings, below grade or floors, and in floor channels unless indicated to be exposed to view.

CONNECTIONS
Connect to utility's gas main according to utility's procedures and requirements. Install natural-gas piping electrically continuous, and bonded to gas appliance equipment grounding conductor of the circuit powering the appliance according to NFPA 70. Install piping adjacent to appliances to allow service and maintenance of appliances. Connect piping to appliances using manual gas shutoff valves and unions. Install valve within 72 inches (1800 mm) of each gas-fired appliance and equipment. Install union between valve and appliances or equipment.
Sediment Traps: Install tee fitting with capped nipple in bottom to form drip, as close as practical to inlet of each appliance.

OUTDOOR PIPING SCHEDULE
Aboveground natural-gas piping shall be Steel pipe with wrought-steel fittings and welded joints.

INDOOR PIPING SCHEDULE
Aboveground, piping shall be Steel pipe with wrought-steel fittings and welded joints.

7. FUEL-FIRED WATER HEATERS

SUBMITTALS
Product Data: For each type and size of water heater indicated. Include rated capacities, operating characteristics, furnished specialties, and accessories. Shop Drawings: Diagram power, signal, and control wiring. Operation and maintenance data.

MANUFACTURERS
Commercial, Power-Burner, Storage, Gas Water Heaters: Comply with NSI Z21.10.3/CSA 4.3.

WATER HEATER ACCESSORIES
Gas Shutoff Valves: ANSI Z21.15/CGA 9.1, manually operated. Furnish for installation in piping. Gas Pressure Regulators: ANSI Z21.18, appliance type. Include pressure rating, capacity, and pressure differential required between gas supply and water heater.
Piping-Type Heat Traps: Field-fabricated piping arrangement according to ASHRAE/IESNA 90.1-2004.

EXECUTION
WATER HEATER INSTALLATION
Install commercial water heaters on concrete bases. Install water heaters level and plumb, according to layout drawings, original design, and referenced standards. Maintain manufacturer's recommended clearances. Arrange units so controls and devices needing service are accessible. Install gas water heaters according to NFPA 54. Install combination temperature and pressure relief valves in top portion of storage tanks. Use relief valves with sensing elements that extend into tanks. Extend commercial, water-heater, relief-valve outlet, with drain piping same as domestic water piping in continuous downward pitch, and discharge by positive air gap onto closest floor drain. Install water heater drain piping as indirect waste to spill by positive air gap into open drains or over floor drains. Install hose-end drain valves at low points in water piping for water heaters that do not have tank drains. Install thermometer on outlet piping of water heaters. Install piping-type heat traps on inlet and outlet piping of water heater storage tanks without integral or fitting-type heat traps.Fill water heaters with water.

CONNECTIONS
Install piping adjacent to water heaters to allow service and maintenance. Arrange piping for easy removal of water heaters.

8. DIRECT-FIRED H&V UNITS

SUBMITTALS
Product Data: Include rated capacities, furnished specialties, and accessories.

PACKAGED UNITS
Factory-assembled, prewired, self-contained unit consisting of cabinet, supply fan, controls, filters, and direct-fired gas furnace to be installed outside the building.

OUTDOOR-AIR INTAKE
Outdoor-Air Hood: Galvanized steel with rain baffles, bird screen complying with ASHRAE 62.1-2004, and finish to match cabinet; and sized to supply maximum 100 percent outdoor air.

AIR FILTERS
Comply with NFPA 90A.

DIRECT-FIRED GAS FURNACE
Description: Factory assembled, piped, and wired; and complying with ANSI Z83.4, "Direct Gas-Fired Make-Up Air Heaters"; ANSI Z83.18, "Direct Gas-Fired Industrial Air Heaters"; and NFPA 54, "National Fuel Gas Code."

CONTROLS
Factory-wired, fuse-protected control transformer, connection for power supply and field-wired unit to remote control panel.

EXECUTION

INSTALLATION
Install gas-fired units according to NFPA 54, "National Fuel Gas Code."
Install roof curb on roof structure, according to ARI Guidelines.
Install controls and equipment shipped by manufacturer for field installation with direct-fired H&V units.

9. METAL DUCTS

RECTANGULAR DUCTS AND FITTINGS
General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" based on indicated static-pressure class unless otherwise indicated.
Transverse Joints: Select joint types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 1-4, "Transverse (Girth) Joints," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
Longitudinal Seams: Select seam types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 1-5, "Longitudinal Seams - Rectangular Ducts," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
Elbows, Transitions, Offsets, Branch Connections, and Other Duct Construction: Select types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 2, "Fittings and Other Construction," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

ROUND DUCTS AND FITTINGS
General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 3, "Round, Oval, and Flexible Duct," based on indicated static-pressure class unless otherwise indicated. Transverse Joints: Select joint types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-2, "Transverse Joints - Round Duct," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Longitudinal Seams: Select seam types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-1, "Seams - Round Duct and Fittings," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Tees and Laterals: Select types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-4, "90 Degree Tees and Laterals," and Figure 3-5, "Conical Tees," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

SHEET METAL MATERIALS
General Material Requirements: Comply with SMACNA's "HVAC Duct Construction Standards Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods unless otherwise indicated. Sheet metal materials shall be free of pitting, seam marks, roller marks, stains, discolorations, and other imperfections.
Galvanized Sheet Steel: Comply with ASTM A 653/A 653M.

EXECUTION
DUCT INSTALLATION
Drawing plans, schematics, and diagrams indicate general location and arrangement of duct system. Indicated duct locations, configurations, and arrangements were used to size ducts and calculate friction loss for air-handling equipment sizing and for other design considerations. Install duct systems as indicated unless deviations to layout are approved on Shop Drawings and Coordination Drawings. Install ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" unless otherwise indicated. Install round ducts in maximum practical lengths. Install ducts with fewest possible joints. Install factory- or shop-fabricated fittings for changes in direction, size, and shape and for branch connections. Unless otherwise indicated, install ducts vertically and horizontally, and parallel and perpendicular to building lines. Install ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building. Install ducts with a clearance of 1 inch (25 mm), plus allowance for insulation thickness. Route ducts to avoid passing through transformer vaults and electrical equipment rooms and enclosures. Where ducts pass through non-fire-rated interior partitions and exterior walls and are exposed to view, cover the opening between the partition and duct or duct insulation with sheet metal flanges of same metal thickness as the duct. Overlap openings on four sides by at least 1-1/2 inches (38 mm).
Where ducts pass through fire-rated interior partitions and exterior walls, install fire dampers.

INSTALLATION OF EXPOSED DUCTWORK
Protect ducts exposed in finished spaces from being dented, scratched, or damaged.
Trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.
Grind welds to provide smooth surface free of burrs, sharp edges, and weld splatter. When welding stainless steel with a No. 3 or 4 finish, grind the welds flush, polish the exposed welds, and treat the welds to remove discoloration caused by welding.
Maintain consistency, symmetry, and uniformity in the arrangement and fabrication of fittings, hangers and supports, duct accessories, and air outlets.
Repair or replace damaged sections and finished work that does not comply with these requirements.

ADDITIONAL INSTALLATION REQUIREMENTS FOR COMMERCIAL KITCHEN HOOD EXHAUST DUCT
Install commercial kitchen hood exhaust ducts without dips and traps that may hold grease, and sloped a minimum of 2 percent to drain grease back to the hood.
Install fire-rated access panel assemblies at each change in direction and at maximum intervals of 12 feet (3.7 m) in horizontal ducts, and at every floor for vertical ducts, or as indicated on Drawings. Locate access panel on top or sides of duct a minimum of 1-1/2 inches (38 mm) from bottom of duct.
Do not penetrate fire-rated assemblies except as allowed by applicable building codes and authorities having jurisdiction.

DUCT SEALING
Seal ducts for duct static-pressure, seal classes, and leakage classes specified in "Duct Schedule" Article according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

10. CENTRIFUGAL FANS

PRODUCTS

FORWARD-CURVED CENTRIFUGAL FANS
Description: Factory-fabricated, -assembled, -tested, and -finished, belt-driven centrifugal fans consisting of housing, wheel, fan shaft, bearings, motor and disconnect switch, drive assembly, and support structure.

EXECUTION

INSTALLATION
Install centrifugal fans level and plumb.
Install units with clearances for service and maintenance.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

06/02/2021

ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI
MICHAEL ANTHONY FULLER
NUMBER PE-2009029713
PROFESSIONAL ENGINEER
4-16-21

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Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

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1 Bid/Permit Set	04.16.2021

Mechanical Specifications

M301

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

GENERAL NOTES:

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3. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE PLUMBING SYSTEMS. VERIFY CHASE AND PENETRATION LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR PIPING MEET REQUIREMENTS.
4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF EQUIPMENT AND SUPPORTS WITH LOCATION OF ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT. IF NO ACCESS PANEL IS SHOWN, PROVIDE ACCESS PANEL IN SIZE REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
7. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW WORK. DESIGN AND INSTALL PER NFPA13, LATEST EDITION.
8. COORDINATE EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT PLANS PREPARED BY OTHERS.

PLAN NOTES:

1. 3" SAN/GREASE UP TO FLOOR DRAIN/FLOOR SINK ABOVE. COORDINATE EXACT LOCATION WITH KITCHEN DRAWINGS AND ARCHITECTURAL DRAWINGS.
2. 3/4" CW, 1/2" HW AND 3" VENT DOWN FROM ABOVE. ROUTE UNDERSLAB TO WAIT ISLAND.
3. 1" CW, 1" HW AND 3" VENT DOWN FROM ABOVE. ROUTE UNDERSLAB TO BAR.
4. 4" SAN. RE: CIVIL PLAN FOR CONTINUATION.
5. 4" GREASE. RE: CIVIL FOR CONTINUATION.
6. 6" STORM. RE: CIVIL FOR CONTINUATION.
7. 4" STORM UP TO ABOVE SLAB.
8. 2" CW. RE: CIVIL FOR CONTINUATION.
9. 2" CW UP TO FLOOR ABOVE.

Grease Interceptor Sizing		
Line Size	4	Inch
Equivalent GPM	45	GPM
Detention Time	30	Minutes
GI Required Size	1350	Gallons

PLUMBING FIXTURE CONN. SCHEDULE

FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1	1/2"	1/2"	2"	1-1/2"
URINAL	U-1	3/4"	--	3"	2"
FLUSH VALVE WATER CLOSET	WC-1	1-1/2"	--	4"	2"
JANITOR SINK	JS-1	3/4"	3/4"	3"	2"
SINK	S-1	1/2"	1/2"	2"	2"
FLOOR SINK	FS-1	--	--	3"	2"
3" FLOOR SINK	3" FS-1	--	--	3"	--
3" FLOOR DRAIN	3" FD-1	--	--	3"	--
FLOOR DRAIN	FD-1	--	--	2"	1-1/2"
TRENCH DRAIN	TD-1	--	--	3"	--

1 Underslab Plan - Plumbing
1/4"=1'-0"

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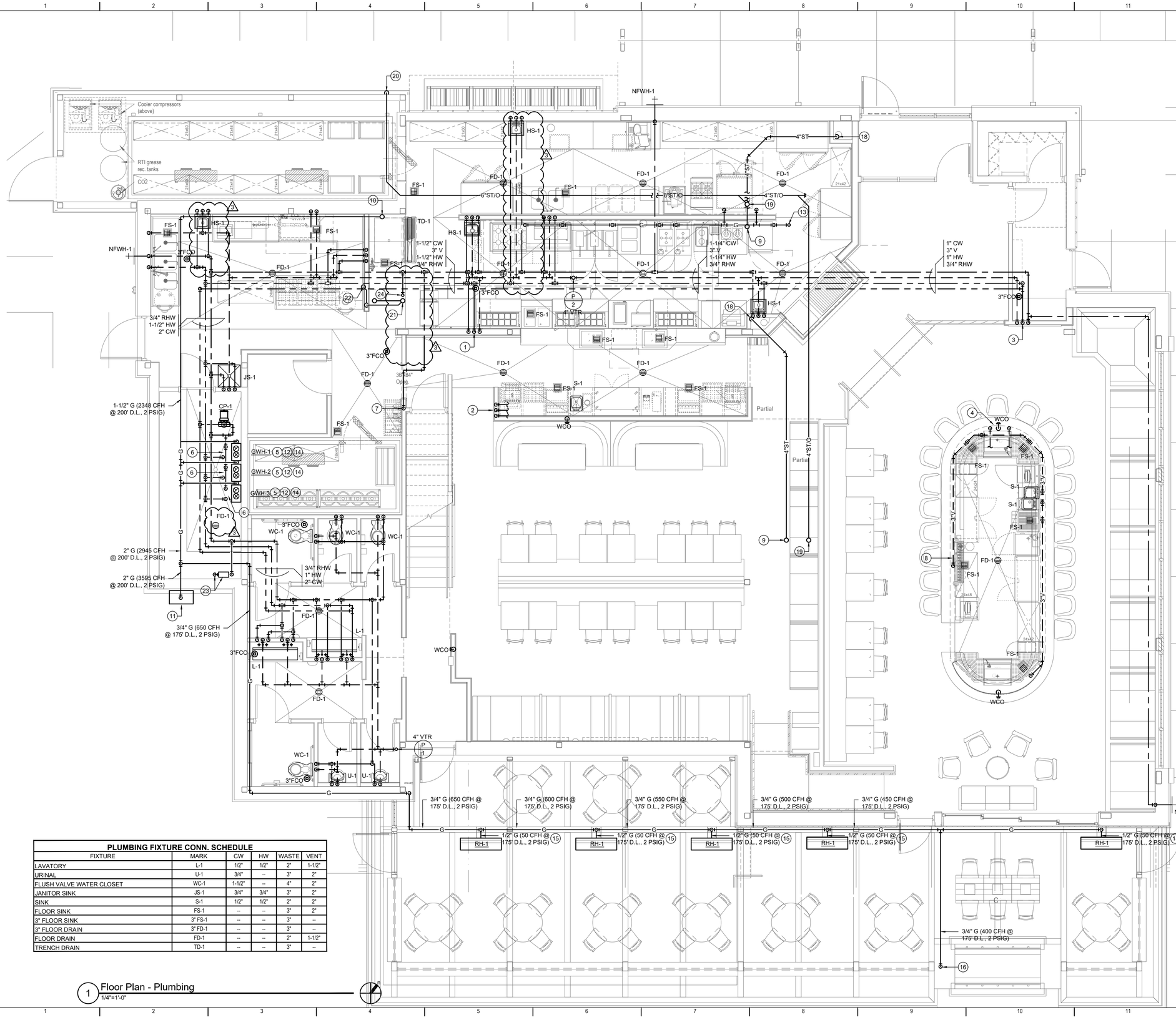
Bid/Permit Set	04.16.2021
1 ADD #1	05.03.2021
3 PLAN REVIEW COMMENTS	05.12.2021

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI
MICHAEL ANTHONY MITCHELL
NUMBER PE-2009029713
PROFESSIONAL ENGINEER
5-12-21

Underslab Plumbing Plan

P101



PLUMBING FIXTURE CONN. SCHEDULE

FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1	1/2"	1/2"	2"	1-1/2"
URINAL	U-1	3/4"	--	3"	2"
FLUSH VALVE WATER CLOSET	WC-1	1-1/2"	--	4"	2"
JANITOR SINK	JS-1	3/4"	3/4"	3"	2"
SINK	S-1	1/2"	1/2"	2"	2"
FLOOR SINK	FS-1	--	--	3"	2"
3" FLOOR SINK	3" FS-1	--	--	3"	--
3" FLOOR DRAIN	3" FD-1	--	--	3"	--
FLOOR DRAIN	FD-1	--	--	2"	1-1/2"
TRENCH DRAIN	TD-1	--	--	3"	--

1 Floor Plan - Plumbing
1/4"=1'-0"

GENERAL NOTES:

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4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF EQUIPMENT AND SUPPORTS WITH LOCATION OF ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT. IF NO ACCESS PANEL IS SHOWN, PROVIDE ACCESS PANEL IN SIZE REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
7. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW WORK. DESIGN AND INSTALL PER NFPA13, LATEST EDITION.
8. COORDINATE EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT PLANS PREPARED BY OTHERS.
9. PROVIDE RPZ TYPE BACKFLOW PREVENTER, THAT COMPLIES WITH ASSE 1022, AT ALL BEVERAGE DISPENSERS AND ICE MAKERS.
10. RPZ BACKFLOW PREVENTOR ASSEMBLY IS REQUIRED AND MUST BE INSTALLED AT EACH CARBONATOR. THERE CAN BE NO COPPER OR ANY OTHER CONNECTIONS (OTHER THAN THE CARBONATOR) DOWNSTREAM OF THE RPZ.

PLAN NOTES:

1. 3/4" CW, 1/2" HW AND 3" VENT DOWN TO BELOW SLAB. ROUTE UNDERSLAB TO WAIT ISLAND.
2. ROUTE 3/4" CW, 1/2" HW AND 3" VENT IN CABINET SPACE. COORDINATE ROUTING WITH ALL EQUIPMENT PRIOR TO INSTALLATION.
3. 1" CW, 1" HW AND 3" VENT DOWN TO BELOW SLAB TO BAR. ROUTE UNDERBAR TO ALL EQUIPMENT. COORDINATE ROUTING WITH ALL EQUIPMENT PRIOR TO INSTALLATION.
4. 1/2" CW DOWN TO ICE MAKER BELOW. PROVIDE 1/2" RPZ TYPE BACKFLOW PREVENTOR. ROUTE BACKFLOW DISHARGE CONCEALED, TO FLOOR SINK.
5. 6"Ø COMBUSTION AIR AND 6"Ø GAS FLUE DOWN TO WATER HEATER BELOW. MATERIAL SHALL BE AS DIRECTED BY WATER HEATER MANUFACTURER.
6. 1-1/2" CW & 1-1/2" HW DOWN TO WATER HEATERS BELOW.
7. 1/2" CW DOWN TO SYRUP/CO2 FOR SODA VENDOR. PROVIDE RPZ TYPE BACKFLOW PREVENTOR IN APPROVED LOCATION. ROUTE DISCHARGE TO NEAREST FLOOR DRAIN.
8. 1/2" CW FOR BEER TAP. PROVIDE RPZ TYPE BACKFLOW PREVENTOR IN APPROVED LOCATION. ROUTE DISCHARGE TO NEAREST FLOOR DRAIN.
9. 4" STROM FROM ROOF ABOVE.
10. 2" GAS (2348 CFH @ 200' D.L., 2 PSIG) UP TO ROOF ABOVE.
11. 2" GAS (3595 CFH @ 200' D.L., 2 PSIG) DOWN TO NEW GAS METER SET BELOW.
12. 6"Ø COMBUSTION AIR AND 6"Ø GAS FLUE UP THROUGH ROOF ABOVE. MATERIAL SHALL BE AS DIRECTED BY WATER HEATER MANUFACTURER.
13. 2" GAS UP (1007 CFH @ 50' D.L, 1/4 PSIG), INSTALL VENTLESS PRESSURE REDUCING VALVE, ABOVE ROOF, TO REDUCE GAS PRESSURE FROM 2 PSIG TO 1/4 PSIG, AT FULL FLOW (SHOWN ABOVE).
14. PROVIDE VENTLESS GAS PRESSURE REDUCING VALVE TO REDUCE GAS PRESSURE FROM 2 PSIG TO 1/4 PSIG. THEN DOWN STREAM OF PRV, 1-1/4" GAS DOWN TO WATER HEATERS BELOW (199 CFH @ 20' D.L., 1/4 PSIG)
15. PROVIDE VENTLESS GAS PRESSURE REDUCING VALVE TO REDUCE GAS PRESSURE FROM 2 PSIG TO 1/4 PSIG. THEN DOWN STREAM OF PRV, 1/2" GAS DOWN TO RADIANT HEATER (50 CFH @ 20' D.L., 1/4 PSIG)
16. PROVIDE VENTLESS GAS PRESSURE REDUCING VALVE TO REDUCE GAS PRESSURE FROM 2 PSIG TO 1/4 PSIG. THEN DOWN STREAM OF PRV, 1" GAS DOWN TO FIREPLACE (400 CFH @ 20' D.L., 1/4 PSIG)
17. 4" STORM DOWN FROM ROOF.
18. 4" STORM DOWN TO BELOW SLAB.
19. 4" OVERFLOW STORM DOWN FROM ROOF.
20. 6" OVERFLOW STORM DOWN. ROUTE THRU WALL AND TERMINATE WITH BRASS DOWNSPOUT NOZZLE. TERMINATE IN LOCATION APPROVED BY ARCHITECT.
21. 3" SAN FROM MEZZANINE.
22. 4" SAN DOWN TO BELOW SLAB.
23. 2" CW UP FROM BELOW SLAB. PROVIDE NEW RPZ TYPE BACKFLOW PREVENTER.
24. 3/4" CW UP TO MEZZANINE BELOW.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

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Missouri Certificate of Authority: #

STATE OF MISSOURI
MICHAEL J. MITCHELL
NUMBER PE-2009020713
PROFESSIONAL ENGINEER
5-12-21

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

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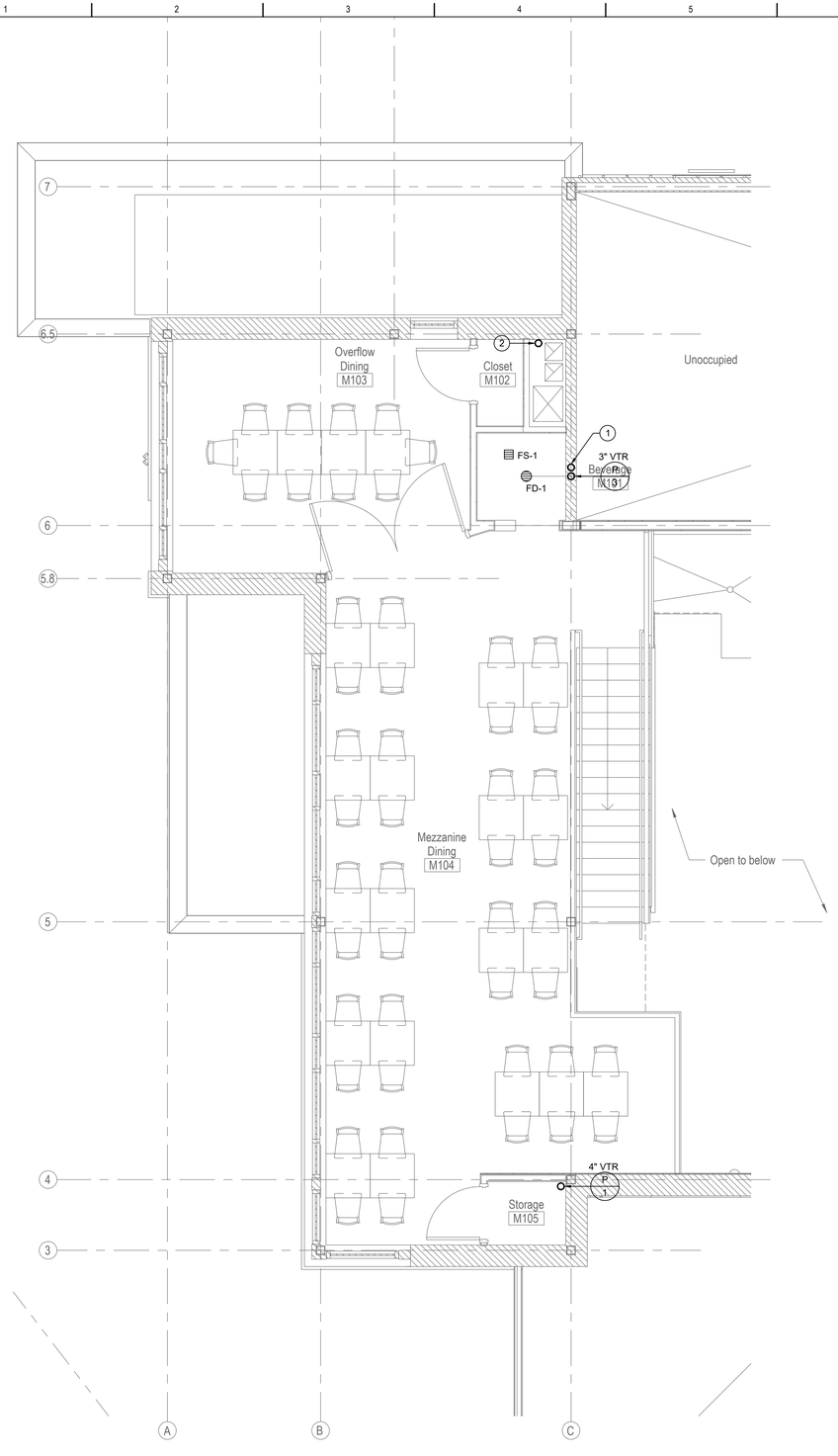
Bid/Permit Set	04.16.2021
1 ADD #1	05.03.2021
3 PLAN REVIEW COMMENTS	05.12.2021

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

Plumbing Floor Plan

P102



1 Mezzanine Plan - Plumbing
1/4"=1'-0"

PLUMBING FIXTURE CONN. SCHEDULE

FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1	1/2"	1/2"	2"	1-1/2"
URINAL	U-1	3/4"	--	3"	2"
FLUSH VALVE WATER CLOSET	WC-1	1-1/2"	--	4"	2"
JANITOR SINK	JS-1	3/4"	3/4"	3"	2"
SINK	S-1	1/2"	1/2"	2"	2"
FLOOR SINK	FS-1	--	--	3"	2"
3" FLOOR SINK	3" FS-1	--	--	3"	--
3" FLOOR DRAIN	3" FD-1	--	--	3"	--
FLOOR DRAIN	FD-1	--	--	2"	1-1/2"
TRENCH DRAIN	TD-1	--	--	3"	--

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4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
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8. COORDINATE EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT PLANS PREPARED BY OTHERS.

PLAN NOTES:

(1) 3/4" CW FROM FLOOR BELOW.
(2) 1-1/2"G FROM FLOOR BELOW AND UP TO ROOF.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
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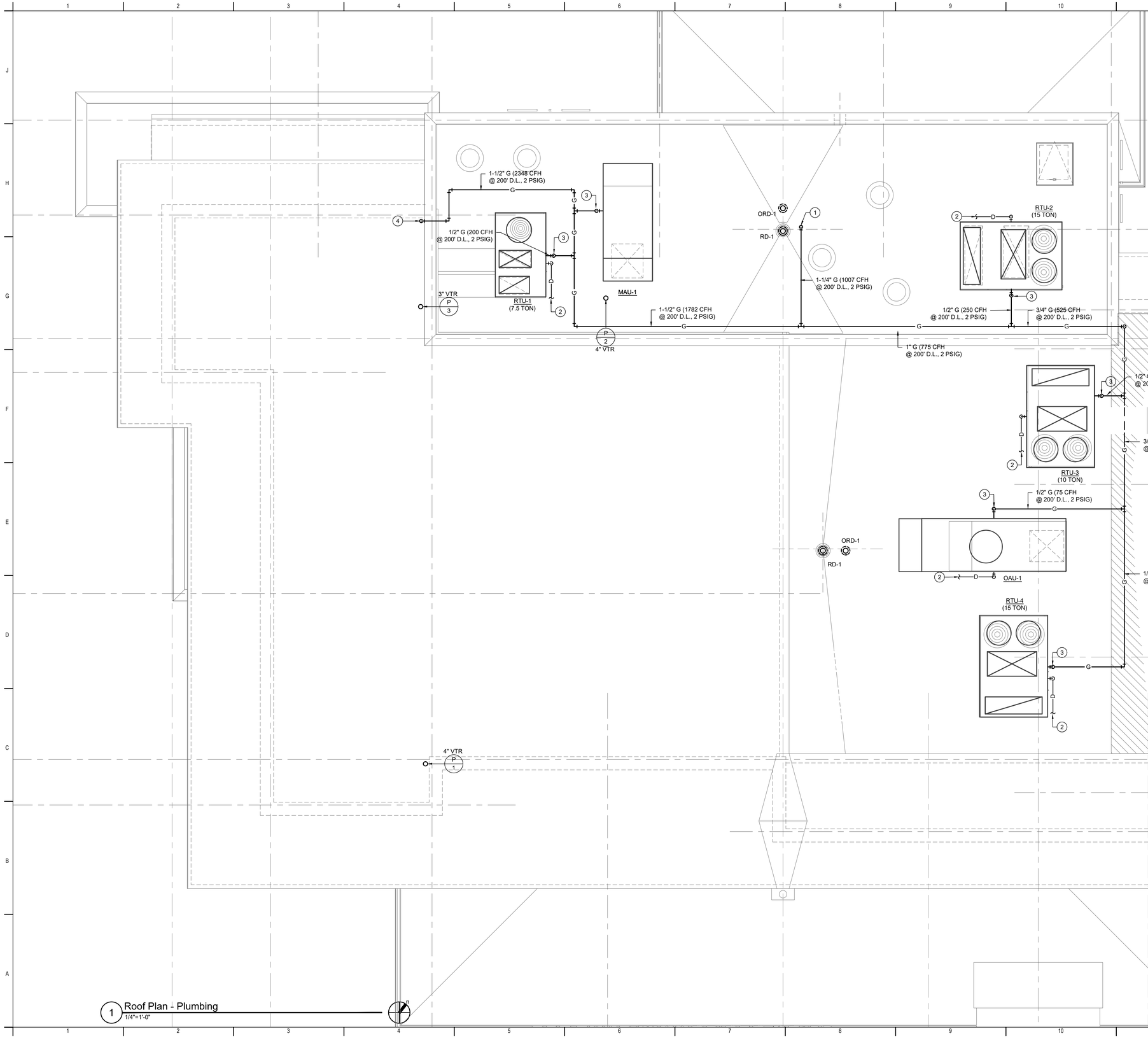
Plumbing Mezzanine Plan

P103



1 Roof Plan - Plumbing
1/4"=1'-0"

GENERAL NOTES:

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PLAN NOTES:

1. PROVIDE VENTLESS GAS PRESSURE REDUCING VALVE TO REDUCE GAS PRESSURE FROM 2 PSIG TO 1/4 PSIG. THEN DOWN STREAM OF PRV 2" GAS DOWN TO COOKING BATTERY BELOW.(1007 CFH @ 200' D.L., 1/4 PSIG)
2. 1-1/2" RTU CONDENSATE DRAIN. ROUTE TO NEAREST ROOF DRAIN. ROUTE ON POLYETHYLENE BLOCKS ON 3' CENTERS. SECURE PIPE TO BLOCK WITH BLOCK WITH PIPE CLIP. PAINT PIPE IN COLOR SELECTED BY ARCHITECT FOR UV PROTECTION.
3. PROVIDE VENTLESS GAS PRESSURE REDUCING VALVE TO REDUCE GAS PRESSURE FROM 2 PSIG TO UNIT OPERATING PRESSURE.
4. 1-1/2" G DOWN TO FLOOR BELOW.

Gas Demand Schedule

Equipment Tag	Description	Equip. Demand (MBH)
16	Convection Oven	140
18	6 Burner Hot Plate	245
34	Hot Plate	110
36	Griddle	102
37	Cheese melter	60
38	Fryers	350
OAU-1	Outside Air Unit	75
GWH-1	Gas Fired Water Heater	199
GWH-2	Gas Fired Water Heater	199
GWH-3	Gas Fired Water Heater	199
RTU-1	Roof Top Unit	200
RTU-2	Roof Top Unit	250
RTU-3	Roof Top Unit	200
RTU-4	Roof Top Unit	250
MAU-1	Make Up Air Unit	366
Rh-1	Radiant Heaters (x5 @ 50 CFH ea)	250
--	Gas Fire Place	400
TOTAL GAS DEMAND		3595

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

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Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

Plumbing Roof Plan

P104

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER AND MODEL	FIXTURE DESCRIPTION	ACCESSORIES MANUFACTURER AND MODEL	ACCESSORIES DESCRIPTION	SIZE	NOTES
FD-1	JAY R SMITH 2010	CAST IRON SHALLOW SUMP FLOOR DRAIN WITH 5" ROUND TOP WITH NICKEL BRONZE STRAINER.	-	-	-	
FS-1	WATTS FS-740-9-1	DEEP SANITARY FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR , LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER AND NO HUB OUTLET.	-		-	TOP OF FLOOR SINK TO BE 1/2" ABOVE FINISHED FLOOR.
HS-1	ELKAY CHS1716C	WALL-MOUNTED, STAINLESS STEEL, ADA COMPLIANT HANDSINK. TYPE 304 (18-8) STAINLESS STEEL, 11" HIGH BACKSPLASH.	ELKAY LK9406N 0422H	CHROME-PLATED GOOSENECK SPOUT FAUCET.	-	PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN, CHROME PLATED BRASS P-TRAP, AND LOOSE KEYS ANGLED STOP VALVES AND FLEXIBLE RISERS. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS WITH ADA COMPLIANT INSULATION. PROVIDE MIXING VALVE, THAT COMPLIES WITH ASSE 1070, SET AT 95°F.
JS-1	ZURN Z1996	FLOOR MOUNTED, MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY.	ZURN Z843M1-RC	WALL MOUNTED SERVICE FAUCET WITH PAIL HOOK AND VACUUM BREAKER. SUPPLY SINK WITH 30" HOSE, MOP HANGER AND LINT BASKET STRAINER.	24" X 24"	
L-1		CUSTOM QUARTZ TROUGH SINK. RE: ARCHITECTURE PLANS	(2) FAUCET TO BE PROVIDED BY OWNER		-	PROVIDE CHROME PLATED BRASS TAILPIECE, CHROME PLATED BRASS P-TRAP, ANGLED STOP VALVES AND FLEXIBLE RISERS. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS WITH ADA COMPLIANT INSULATION. PROVIDE MIXING VALVE, THAT COMPLIES WITH ASSE 1070, SET AT 95°F
NFWH-1	WOODFORD B65	NON FREEZE WALL HYDRANT WITH LOCKABLE WALL BOX AND LOOSE KEY.	-		-	
ORD-1	ZURN Z-100	15" DIAMETER ROOF DRAIN. DURA-COATED CAST IRON ROOF DRAIN WITH COMBINATION MEMBRANE FLASHING CLAMB/GRAVEL GUARD AND LOW SILHOUETTE POLY-DOME. FURNISH WITH 2" INTERNAL WATER DAM.	--	--	15"	
RD-1	ZURN Z-100	15" DIAMETER ROOF DRAIN. DURA-COATED CAST IRON ROOF DRAIN WITH COMBINATION MEMBRANE FLASHING CLAMB/GRAVEL GUARD AND LOW SILHOUETTE POLY-DOME. FURNISH WITH 2" INTERNAL WATER DAM.	--	--	15"	
S-1	BY KITCHEN EQUIPMENT PROVIDER					
TD-1	BY KITCHEN EQUIPMENT PROVIDER		-		-	
U-1	AMERICAN STANDARD DECORUM 6042.001EC	WALL HUNG, VITREOUS CHINA URINAL WITH WASH OUT FLUSHING ACTION AND TOP SPUD. MOUNT AT ADA HEIGHT. SELECTRONIC SENSOR OPERATED, BATTERY POWERED, CHROME PLATED, EXPOSED WATER CLOSET FLUSH VALVE WITH 3/4" TOP SPUD. RATED FOR .125 GPF.	1.) JAY R SMITH	1.) PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION.	-	
WC-1	AMERICAN STANDARD MADERA 3043.001	FLOOR-MOUNTED, VITREOUS CHINA WATER CLOSET WITH CONVENTIONAL GLAZE. MEETS STANDARDS FOR HIGH EFFICIENCY TOILET. DIRECT FED SIPHON JET ACTION. ELONGATED BOWL. ADA COMPLIANT. SELECTRONIC SENSOR OPERATED, BATTERY POWERED, CHROME PLATED, EXPOSED WATER CLOSET FLUSH VALVE WITH 1 1/2" TOP SPUD. RATED FOR 1.6 GPF.	1.) PLUMBTECH 421C 2.) JAY R SMITH	1.) SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS. 2.) PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION.	-	

INSTANTANEOUS GAS WATER HEATER SCHEDULE

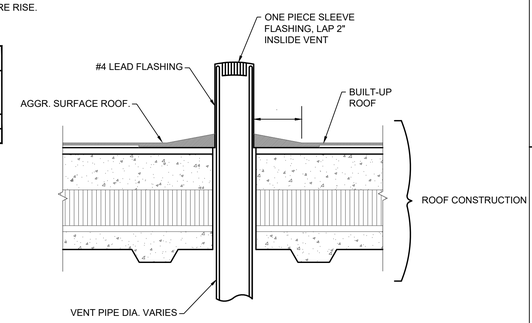
UNIT CALLOUT	UNIT INFORMATION							NOTES
	MFG	MODEL NO.	FLOW (GPM)	EWT (°F)	LWT (°F)	TOTAL INPUT (MBH)	VOLT/ PH	
GWH-1	NAVIEN	NPE-240A	5	40	115	199	120/1	1
GWH-2	NAVIEN	NPE-240A	5	40	115	199	120/1	1
GWH-3	NAVIEN	NPE-240A	5	40	115	199	120/1	1

NOTES:
1. SUPPLY WITH FACTORY CONTROL PANEL. MANIFOLD ALL UNITS TOGETHER TO ACHIEVE 15 GPM OF WATER FLOW AT 75 DEGREE F TEMPERATURE RISE.

RADIANT HEATER SCHEDULE

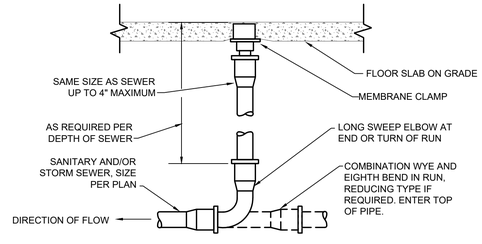
UNIT CALLOUT	UNIT INFORMATION			NOTES
	MFG	MODEL NO.	CAP (BTUH)	
RH-1	INFRASAVE	IO-152	50.0	1

NOTES:
1. SUPPLY WITH PATIO PANEL, MOUNTING KIT AND FLEXIBLE GAS CONNECTOR.



NOTES:
1. MAX. SIZE OF ROOF OPENING 1" LARGER THAN OUTSIDE DIA. OF PIPE.
2. VENT PIPE SHALL NOT BE INSTALLED WITHIN 5'-0" OF ROOF VALLEY'S OR 2'-0" FROM ANY VERTICAL SURFACE.
3. VENT PIPE SHALL TERMINATE NOT LESS THAN 10'-0" FROM ANY AIR INTAKE OR VENT SHAFT.

5 SECTION THRU PLUMBING VENT
NO SCALE



4 FLOOR CLEANOUT DETAIL
NO SCALE

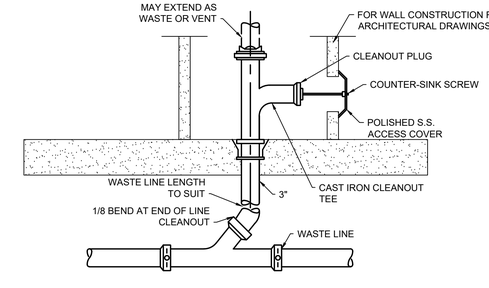
GENERAL

1	MECHANICAL NOTE REFERENCE
2	DEMOLITION NOTE REFERENCE
3	REVISION NOTE REFERENCE
	CONNECT TO EXISTING WORK

PLUMBING

SAN	SOIL OR WASTE ABOVE GRADE OR FLOOR
SAN	SOIL OR WASTE BELOW GRADE OR FLOOR
V	PLUMBING VENT
ST	STORM ABOVE GRADE OR FLOOR
ST	STORM BELOW GRADE OR FLOOR
ST/O	STORM OVERFLOW ABOVE GRADE OR FLOOR
ST/O	STORM OVERFLOW BELOW GRADE OR FLOOR
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	RECIRCULATING DOMESTIC HOT WATER
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
CO	CLEAN OUT
G	GAS (NATURAL)
HB	HOSE BIBB
WH	WALL HYDRANT
	FLOOR SINK, FLOOR DRAIN, AREA DRAIN
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN
	REDUCED PRESSURE BACKFLOW PREVENTER
P #	PLUMBING VENT RISER CALL-OUT
	ELBOW DOWN
	ELBOW UP
	TEE UP
	TEE DOWN
	UNION
	CAP
	BALL (SHUTOFF) VALVE

2 MECHANICAL SYMBOLS
NO SCALE



3 WALL CLEANOUT DETAIL
NO SCALE

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

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Lee's Summit, MO

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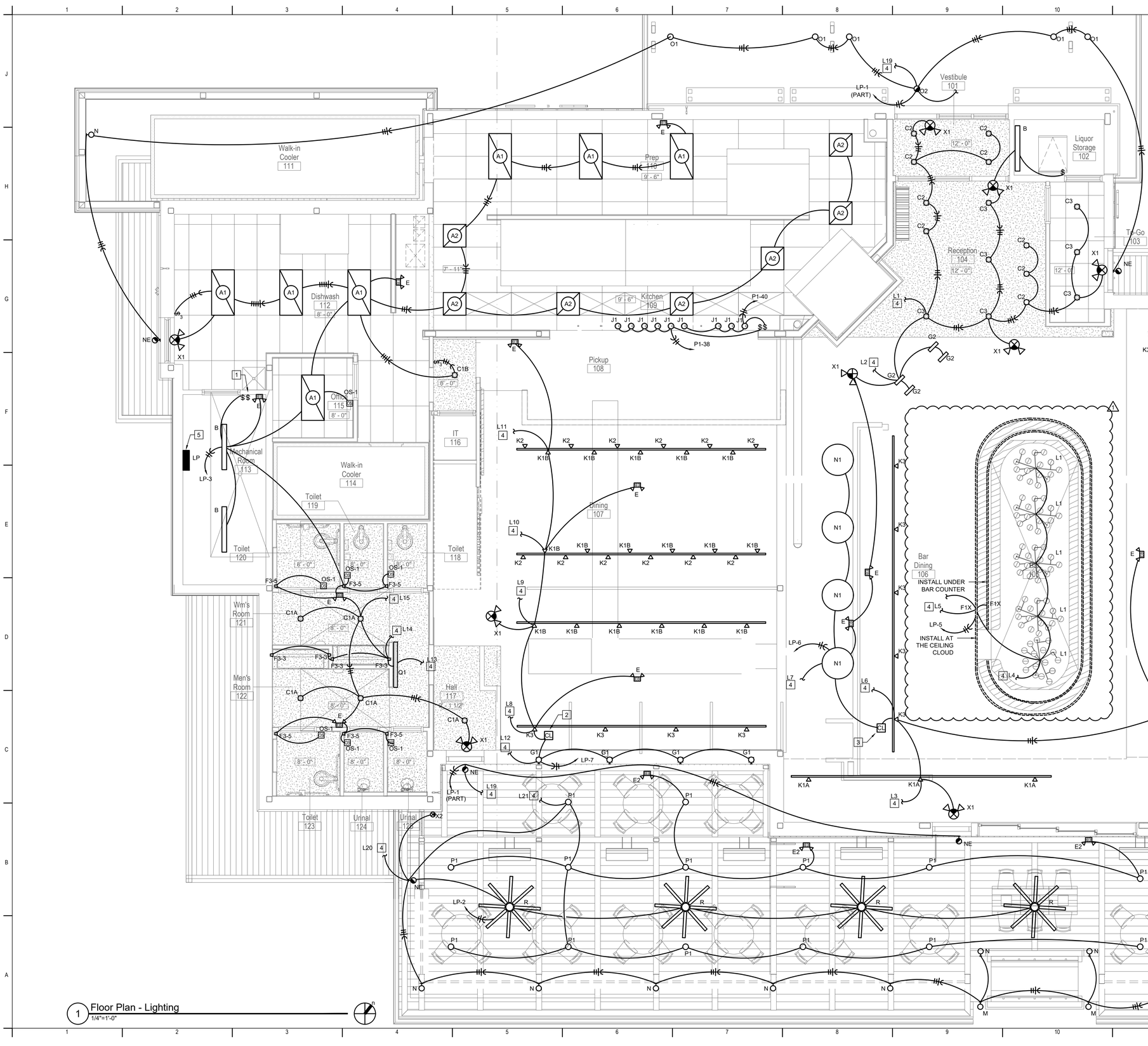
PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS		DATE
1 Bid/Permit Set		04.16.2021

Plumbing Schedules & Details

P201



1 Floor Plan - Lighting
1/4"=1'-0"

PLAN NOTES:

1. 2-BUTTON (ON-OFF) OVERRIDE SWITCH FOR AFTER HOURS OVERRIDE OF LIGHTING. CONNECT TO THE LIGHTING CONTROL PANEL, COORDINATE LIGHTING CONTROLLED WITH OWNER.
2. PROVIDE 10 AMP CURRENT LIMITER WITH BLACK FINISH, HALO #CB1200MB OR SIMILAR, FOR PORTION OF BRANCH CIRCUIT SERVING THE DINING TRACK LIGHTS. PROVIDE LABEL 'BAR TRACK CURRENT LIMITER'.
3. PROVIDE 5 AMP CURRENT LIMITER WITH BLACK FINISH, HALO #CB600MB OR SIMILAR, FOR PORTION OF BRANCH CIRCUIT SERVING THE BAR TRACK LIGHTS. PROVIDE LABEL 'BAR TRACK CURRENT LIMITER'.
4. ROUTE THROUGH THE LIGHTING CONTROL PANEL, 'LX' INDICATES LIGHTING ZONE. REFER TO THE LIGHTING CONTROL SCHEDULE. PROVIDE AN UNSWITCHED CONDUCTOR WHERE SHOWN FOR CONNECTION TO EXIT AND/OR EMERGENCY LIGHTS.
5. LIGHTING CONTROL PANEL LEGRAND #LCAP32MCB OR SIMILAR. FURNISH WITH PROGRAMMING SOFTWARE TO ALLOW FOR OWNER PROGRAMMING OF SCENE CHANGES FROM THE OWNER'S COMPUTER. PROVIDE OWNER TRAINING FOR SOFTWARE.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/12/2021

ARCHITECTURAL
URBAN PRAIRIE
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PROJECT NUMBER:	20-033
ISSUE DATE:	10 March, 2021

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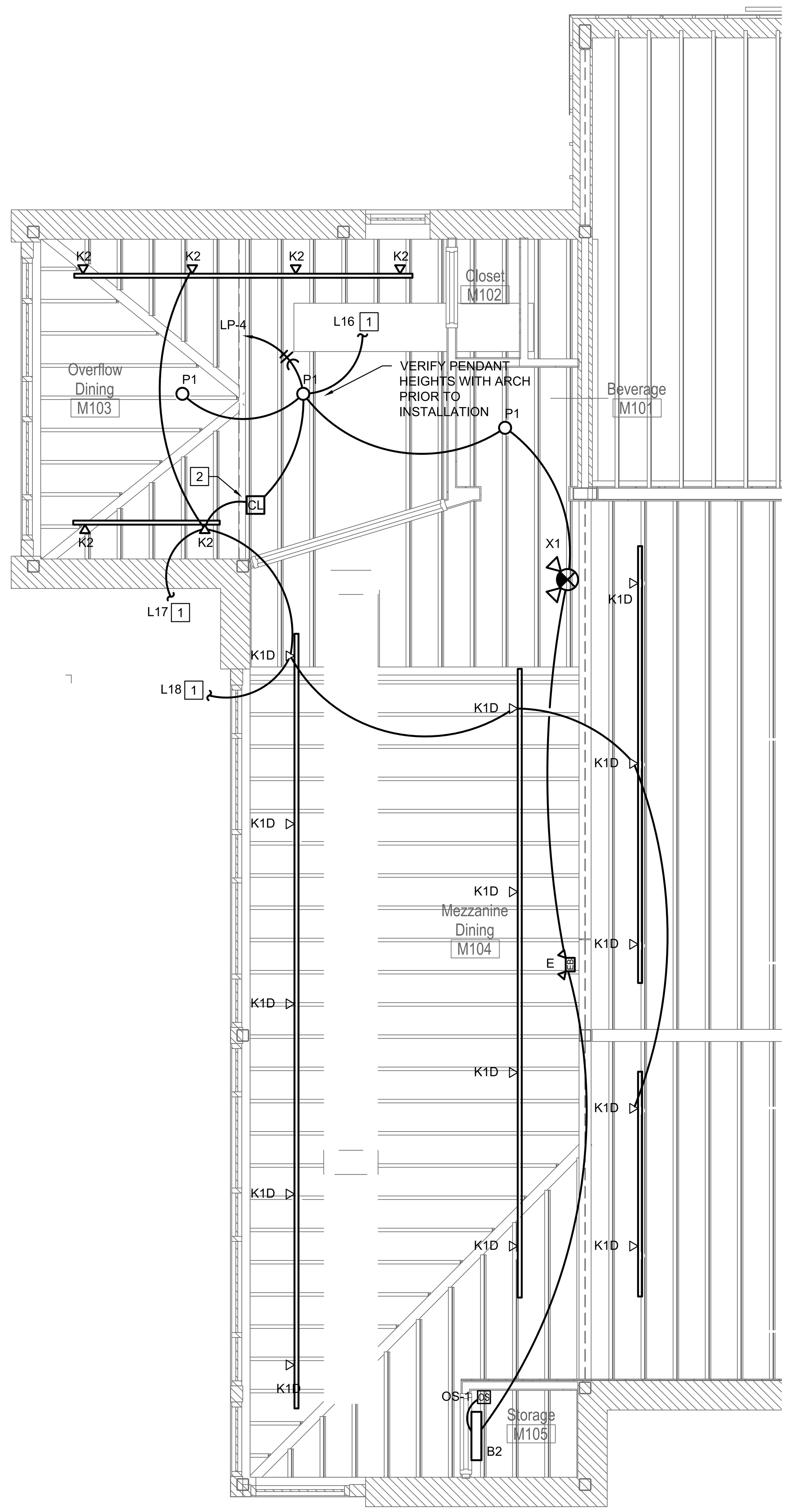
1 ADD #1	05.03.2021

Lighting Plan

E101

PLAN NOTES:

1. ROUTE THROUGH THE LIGHTING CONTROL PANEL, 'LX' INDICATES LIGHTING ZONE. REFER TO THE LIGHTING CONTROL SCHEDULE. PROVIDE AN UNSWITCHED CONDUCTOR WHERE SHOWN FOR CONNECTION TO EXIT AND/OR EMERGENCY LIGHTS.
2. PROVIDE 5 AMP CURRENT LIMITER WITH BLACK FINISH, HALO #CB600MB OR SIMILAR, FOR PORTION OF BRANCH CIRCUIT SERVING THE MEZZANINE TRACK LIGHTS. PROVIDE LABEL 'MEZZANINE TRACK CURRENT LIMITER'.



1 Mezzanine Plan - Lighting
1/4"=1'-0"

LIGHTING CONTROL SCHEDULE

ZONE NO.	LOAD DESCRIPTION	PHOTOCELL	DIMMING TYPE
1	RECEPTION/VESTIBULE	NO	0-10V
2	BAR STEP LIGHTS	NO	N/A
3	BAR TRACK	NO	120V PHASE
4	BAR LIGHT	NO	NOTE 1
5	BAR ACCENT LIGHT	NO	0-10V
6	BAR TRACK	NO	NOTE 1
7	DINING PENDANTS	NO	NOTE 1
8	DINING TRACK	NO	NOTE 1
9	DINING TRACK	NO	120V PHASE
10	DINING TRACK	NO	120V PHASE
11	DINING TRACK	NO	120V PHASE
12	DINING SCONCES	NO	ELV
13	RESTROOM ENTRY	NO	0-10V
14	RESTROOM SINK LTS	NO	0-10V
15	RESTOOM ENTRY	NO	ELV
16	MEZZ PENDANTS	NO	ELV
17	MEZZ TRACK	NO	120V PHASE
18	MEZZ TRACK	NO	120V PHASE
19	EXTERIOR LIGHTS	YES	N/A
20	PATIO LTG	YES	0-10V
21	PATIO LTG	YES	ELV
22	SPARE		
23	SPARE		
24	SPARE		

GENERAL NOTE: LIGHTING CONTROL PANEL TO BE LEGRAND #LCAP32MCB OR SIMILAR. FURNISH WITH PROGRAMMING SOFTWARE TO ALLOW FOR OWNER PROGRAMMING OF SCENES FROM THE OWNER'S COMPUTER. PROVIDE OWNER TRAINING FOR SOFTWARE. REFER TO THE PANEL LP SCHEDULE FOR CONTROL PANEL BRANCH CIRCUIT BREAKER REQUIREMENTS.

NOTES:

1. COORDINATE DIMMING TYPE AND CAPACITY WITH FINAL FIXTURE SELECTION

OCCUPANCY SENSOR SCHEDULE

TAG	QTY (CONFIRM WITH PLANS)	MANUFACTURER	MODEL	MOUNTING	TYPE	TIME DELAY SETTING	NOTES
OS-1	8	LEVITON	MDS10-ID	WALL	PASSIVE INFRARED	15 MIN	

LIGHT FIXTURE SCHEDULE

TAG	QUANTITY (CONFIRM WITH PLANS)	DESCRIPTION	VOLTAGE	MOUNTING	LAMPING			MANU/SERIES	VA
					QTY	WATTAGE	TYPE/COLOR TEMP		
A1	7	2'-0"X4'-0" LED TROFFER WITH INTEGRAL DIMMING DRIVER.	120	RECESSED GRID	--	39	LED	COLUMBIA LCAT24-35LWG-EDU (COOPER CRUZ, LITHONIA BLT OR CREE ZR EQUAL)	39
A2	7	2'-0"X2'-0" LED TROFFER WITH INTEGRAL DIMMING DRIVER.	120	RECESSED	--	23	LED	COLUMBIA LCAT24-35LWG-EDU (COOPER CRUZ, LITHONIA BLT OR CREE ZR EQUAL)	23
B	3	4'-0" LED STRIP FIXTURE. 22 GAUGE STEEL BASE, WHITE POWDER COAT FINISH, SEMI FROST LENS.	120	SURFACE	--	32	LED/3500K/ 3000 LUMEN	COOPER#SNLED LITHONIA#ZL1F	32
B2	1	2'-0" LED STRIP FIXTURE. 22 GAUGE STEEL BASE, WHITE POWDER COAT FINISH, SEMI FROST LENS.	120	SURFACE	--	24	LED/3500K/ 2250 LUMEN	COOPER#SNLED LITHONIA#ZL1F	24
C1A	5	2" DIAMETER RECESSED LED DOWNLIGHT WITH BLACK BAFFLE, WHITE TRIM AND ELV DIMMING DRIVER.	120	RECESSED	--	8	LED	JUNO#2LEDTRIM SERIES	8
C1B	1	2" DIAMETER RECESSED LED DOWNLIGHT WITH WHITE BAFFLE, WHITE TRIM AND ELV DIMMING DRIVER.	120	RECESSED	--	12	LED	JUNO#2LEDTRIM SERIES	12
C2	9	4.5" DIAMETER RECESSED LED WALLWASHER WITH BLACK TRIM AND 0-10V DIMMING DRIVER.	120	RECESSED	--	17	LED	REGGIANI#A-RG-14-H-HW-31/ V-O-ME53-121C	17
C3	7	4.5" DIAMETER RECESSED LED DOWNLIGHT WITH BLACK TRIM AND 0-10V DIMMING DRIVER.	120	RECESSED	--	12	LED	REGGIANI#A-BG-13-E-HW-31/ V-O-ME50-121C	12
E	12	SURFACE MOUNTED SELF-CONTAINED EMERGENCY LIGHTING FIXTURE FOR WALL INSTALLATION. LEAD CALCIUM BATTERY, UV-STABLE PLASTIC HOUSING WITH WHITE FINISH. TWO FULLY ADJUSTABLE MR16 LAMPS WITH CLEAR PROTECTIVE LAMP LENS. PUSH TO TEST SWITCH, LED INDICATOR LIGHTS FOR AC SUPPLY, BATTERY CHARGE STATUS. 90 MINUTES OF BATTERY OPERATION.	120	SURFACE WALL/CLG	2	3	LED	DUAL-LITE#LZ EXITRONICS#LL50 LITHONIA#ELM2	5
E2	3	SURFACE MOUNTED SELF-CONTAINED EMERGENCY LIGHTING FIXTURE FOR WALL INSTALLATION. LOW TEMPERATURE NI-CAD BATTERY OR LEAD CALCIUM BATTERY WITH HEATER, UV-STABLE PLASTIC HOUSING WITH WHITE FINISH, LISTED FOR WET LOCATION. TWO FULLY ADJUSTABLE MR16 LAMPS WITH CLEAR PROTECTIVE LAMP LENS. PUSH TO TEST SWITCH, LED INDICATOR LIGHTS FOR AC SUPPLY, BATTERY CHARGE STATUS. 90 MINUTES OF BATTERY OPERATION.	120	WALL	--	11	LED	LITHONIA#AFN-EXT	5
F1X	2	FLEXIBLE LED TAPELIGHT WITH INTEGRAL BODY AND DIFFUSER AND REMOTE 0-10V DIMMING DRIVER. CONFIRM LENGTHS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DETAILS.	120	SURFACE	--	4/FT	LED	LUMINII#KBM-F-H-27K	200
F3-3	4	1.5" X 30" ALUMINUM EXTRUSION FOR RECESSED INSTALLATION WITH DRYWALL FLANGE, LED TAPELIGHT, FROSTED COVER AND REMOTE 0-10V DIMMING DRIVER.	120	RECESSED	--	25	LED	LUMINII#K-30IN-27K-MO-FF	25
F3-5	6	1.5" X 5'-0" ALUMINUM EXTRUSION FOR RECESSED INSTALLATION WITH DRYWALL FLANGE, LED TAPELIGHT, FROSTED COVER AND REMOTE 0-10V DIMMING DRIVER.	120	RECESSED	--	50	LED	LUMINII#K-60IN-27K-MO-FF	50
G1	4	LED WALL SCONCE WITH ELV DIMMING DRIVER AND AGED BRASS FINISH.	120	SURFACE	--	30	LED	WAC LIGHTING#WS-30907-AB	30
G2	4	LED STEP LIGHT	120	RECESSED	--	3	LED	JUNO#LMS-30K-CTD-120-RPC-BL	3
J1	9	HEAT LAMP PROVIDED AS PART OF THE KITCHEN PACKAGE AND INSTALLED BY CONTRACTOR. COORDINATE MOUNTING HEIGHT WITH OWNER.	120	CEILING	1	375	INC	HATCO#DLH-R-N-600	375
K1A	3	LED TRACK LIGHT WITH 120V PHASE DIMMING DRIVER, FURNISH WITH HEX CELL LOUVER. FURNISH WITH TRACK IN LENGTHS SHOWN.	120	TRACK	--	19	LED	LF ILLUMINATION#TRA20B-H-19C-9227-N-D11-BB/ OPT-TRA20B-HXL	19
K1B	17	LED TRACK LIGHT WITH 120V PHASE DIMMING DRIVER, FURNISH WITH LINEAR SPREAD LENS. FURNISH WITH TRACK IN LENGTHS SHOWN.	120	TRACK	--	19	LED	LF ILLUMINATION#TRA20B-H-19C-9227-N-D11-BB/ OPT-TRA20B-P-LSL	19
K1D	14	LED TRACK LIGHT WITH 120V PHASE DIMMING DRIVER, FLOODLIGHT DISTRIBUTION AND LINEAR SPREAD LENS. FURNISH WITH TRACK IN LENGTHS SHOWN.	120	TRACK	1	8	LED	LF ILLUMINATION#TRA20B-H-08C-9227-N-D11-BB/ OPT-TRA20B-P-LSL	8
K2	18	WALL WASH LED TRACK LIGHT WITH 120V PHASE DIMMING DRIVER. FURNISH WITH TRACK IN LENGTHS SHOWN.	120	TRACK	--	13	LED	LF ILLUMINATION#TRA29V-H-13C-9227-W-D11-BB	13
K3	16	LED TRACK MOUNTED FRAMING PROJECTOR.	120	TRACK	--	9	LED	TIMES SQUARE#LED9P-B-T1	9
L1	5	LED PENDANT LIGHT. FURNISH WITH DIMMABLE LED LAMPS.	120	PENDANT	16	10	LED	RESTORATION HARDWARE #68520013MKPN	160
M	2	LED WALL MOUNTED 11" FIXTURE WITH BLACK FINISH, MEDIUM UPLIGHT/DOWNLIGHT DISTRIBUTION, WET LOCATION LISTED, 0-10V DIMMING DRIVER.	120-277	WALL	1	20	LED/1800LM/ 3000K	CONTECH#CY3T-3-30K-MVD2-UD-X-M-B	20
N	9	LED WALL MOUNTED 11" TALL FIXTURE WITH BLACK FINISH, MEDIUM DOWNLIGHT DISTRIBUTION, WET LOCATION LISTED, 0-10V DIMMING DRIVER.	120-277	WALL	1	20	LED/1800LM/ 3000K	CONTECH#CY3T-3-30K-MVD2-W-X-M-B	20
N1	4	32" DIAMETER X 16" TALL DECORATIVE SUSPENDED PENDANT. IRON EXTERIOR, COPPER LEAR INTERIOR. PROVIDE WITH LED SCREW-IN DIMMABLE ELV LAMP.	120	PENDANT	--	11	LED/2700K	IL FANALE GALILEO#251.06.F94 LAMP:GREEN CREATIVE 11A19DIM/927	11
NE	6	LED WALL MOUNTED 11" TALL FIXTURE WITH MEDIUM DISTRIBUTION, WET LOCATION LISTED, REMOTE 0-10V DIMMING DRIVER WITH BATTERY BACKUP. INSTALL DRIVER INSIDE BUILDING AS HIGH AS POSSIBLE.	120-277	WALL	1	20	LED/1800LM/ 3000K	CONTECH#CY3T-3-30K-MVD2- W-X-M-RDB	20
O1	5	LED CEILING MOUNTED 6" TALL FIXTURE WITH BLACK FINISH, MEDIUM DOWNLIGHT DISTRIBUTION, WET LOCATION LISTED, 120V ELV DIMMING DRIVER.	120-277	CEILING	1	20	LED/1800LM/ 3000K	CONTECH#CY3S-3-30K-12D1-C-X-M-B	20
O2	1	LED CEILING MOUNTED 11" TALL EMERGENCY FIXTURE WITH BLACK FINISH, MEDIUM DOWNLIGHT DISTRIBUTION, WET LOCATION LISTED, REMOTE 120V ELV DIMMING DRIVER WITH BATTERY BACKUP. INSTALL DRIVER INSIDE BUILDING AS HIGH AS POSSIBLE.	120-277	CEILING	1	20	LED/1800LM/ 3000K	CONTECH#CY3T-3-30K-MVD2-C-X-M-B-RDB	20
P1	17	LED PENDANT MOUNTED 6" TALL FIXTURE WITH BLACK FINISH, MEDIUM DISTRIBUTION, WET LOCATION LISTED, ELV DIMMING DRIVER, 24" RIGID STEM.	120-277	WALL	1	20	LED/1800LM/ 3000K	CONTECH#CY3S-3-30K-12D1-RS-X-M-B	20
Q1	1	4" WIDE LED WALL GRAZER, INTEGRAL 0-10V DIMMING DRIVER.	120	RECESSED	--	17	LED	FOCAL POINT#FSM2PR-FXH-FL2-375LF-30K-1C-UNV-LD1-XF-WH-3FT	17
R	4	65", 8-BLADE CEILING FAN , PENDANT MOUNTED, SUITABLE FOR OUTDOOR INSTALLATION, COAL FINISH WITH COAL BLADES, 18" DOWNROD. FURNISH WITH REMOTE CONTROL.	120	PENDANT	--	--	--	MINKA AIRE#F896-65-CL	58
X1	10	LED EXIT SIGN, SINGLE OR DOUBLE FACE AS INDICATED ON DRAWINGS, THERMOPLASTIC HOUSING, RED LETTERING, SEALED NI-CAD BATTERY, INTEGRAL EMERGENCY LAMPS, MINIMUM 90 MINUTE CAPACITY. DRAWINGS INDICATE ARROWS.	120	UNIVERSAL	3	6	LED/MR-16	LITHONIA LHQM	5
X2	2	HIGH ABUSE LED EXIT SIGN. DI-CAST ALUMINUM HOUSING WITH IMPACT RESISTANT POLYCARBONATE COVER. WHITE HOUSING AND FACEPLATE, RED LETTERS, SEALED NI-CAD BATTERY, MINIMUM 90 MINUTE CAPACITY.	120	WALL	1		LED	CHLORIDE#T COOPER#UX70RSD LITHONIA#LV EXITRONIX#NAV DUAL-LITE#LN4X	5

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2021

ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI — CORY A. MITCHELL — NUMBER PE-2007006928 — PROFESSIONAL ENGINEER
5-3-21

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Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

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Bid/Permit Set	04.16.2021
1 ADD #1	05.03.2021

Mezzanine Lighting Plan

E102

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/12/2021

GENERAL NOTES:

1. AT LOCATIONS OF COMMUNICATIONS AND TV OUTLETS, UNLESS NOTED OTHERWISE, PROVIDE A 4"X4" BOX AT 18" AFF WITH (1) 3/4" CONDUIT WITH PULL STRING TO ABOVE THE CEILING OR AT STRUCTURE ABOVE. FOR TV OUTLETS LOCATED AT THE PATIO, EXTEND CONDUIT INTO THE BUILDING AND STUB INTO THE CEILING STRUCTURE AREA. TV OUTLETS ARE APPROXIMATE AND ARE TO BE FIELD VERIFIED WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.

PLAN NOTES:

1. INSTALL AT THE STRUCTURE ABOVE. ROUTE CONDUIT CONCEALED ALONG STRUCTURE.
2. MOUNT FROM STRUCTURE ABOVE, COORDINATE LOCATION.
3. PROVIDE RECEPTACLE AND DATA OUTLET FOR MONITOR, COORDINATE MOUNTING HEIGHT/LOCATION WITH MONITOR.
4. PROVIDE CONNECTION TO EXTERIOR SIGN. COORDINATE REQUIREMENTS WITH SIGN INSTALLER. CONTROL BY PHOTOCELL SHOWN ON CIRCUIT, MOUNT PHOTOCELL AS HIGH AS POSSIBLE.
5. CONNECT TO HAND DRYER, COORDINATE MOUNTING HEIGHT.
6. COORDINATE LOCATION WITH AHJ. HORN/STROBE ONLY TO ACTIVATE UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTORS AT THE ROOFTOP UNITS OR UPON FIRE SPRINKLER WATER FLOW.
7. FIRE ALARM PANEL TO MONITOR THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM, THE FIRE SPRINKLER FLOW AND TAMPER SWITCHES AND THE DUCT MOUNTED SMOKE DETECTORS AT THE ROOFTOP UNITS ONLY. PANEL SHALL ACTIVATE THE DINING AREA HORN STROBE ONLY UPON ACTIVATION OF THE DUCT SMOKE DETECTORS OR SPRINKLER WATER FLOW ONLY. A FULL FIRE ALARM SYSTEM WITH FULL AUDIBLE AND VISUAL COVERAGE IS NOT REQUIRED.
8. PROVIDE 2-GANG FLUSH FLOOR BOX SUITABLE FOR ON GRADE INSTALLATION, WIREMOLD #880 OR SIMILAR. FURNISH WITH METAL COVERPLATE WITH BLACK POWDER COAT FINISH. FURNISH WITH (1) DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS AND PROVISIONS FOR (2) DATA OUTLETS. PROVIDE (1) 3/4" CONDUIT FROM BOX TO ABOVE NEAREST WALL FOR COMMUNICATIONS CABLING. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. LIGHTING CONTROL PANEL, REFER TO THE LIGHTING PLANS FOR REQUIREMENTS.
10. PROVIDE FIREBOY #CMD5 OR SIMILAR CO SENSOR SUITABLE FOR EXTERIOR INSTALLATION, MOUNT UNDER PATIO ROOF. PROVIDE RECEPTACLE ADJACENT TO SENSOR FOR POWER.

HEXAGON INDICATES KITCHEN/BAR EQUIPMENT TAG, REFER TO THE KITCHEN/BAR EQUIPMENT SCHEDULE FOR CONNECTION REQUIREMENTS (TYP)

HEXAGON INDICATES KITCHEN/BAR EQUIPMENT TAG, REFER TO THE KITCHEN/BAR EQUIPMENT SCHEDULE FOR CONNECTION REQUIREMENTS (TYP)

MOUNT ON HOOD FOR CONTROL OF HOOD EXH FAN

PROVIDE 7-DAY MECHANICAL TIMECLOCK FOR CONTROL OF RESTROOM EXHAUST FAN. COORDINATE SCHEDULE WITH OWNER

CIRC PUMP, PROVIDE 7-DAY TIME CLOCK FOR CONTROL

CO2 SYSTEM SENSOR, COORDINATE LOCATION

CT CABINET AND METER

NEW PANEL MDP FEEDER BELOW GRADE, REFER TO THE CIVIL SITE PLAN FOR TRANSFORMER LOCATION.

PROVIDE POWER HIGH FOR RESTROOM SIGN; COORDINATE LOCATION WITH SIGN PROVIDER/OWNER

PROVIDE 120:24 VOLT, 200 VA TRANSFORMER FOR HEATERS. MOUNT AS HIGH AS POSSIBLE INSIDE BUILDING.

COORDINATE CONDUIT ROUTING AT PATIO WITH ARCH PRIOR TO ROUGH IN (TYP)

PROVIDE CONNECTION TO HEATER AND CONNECTION BETWEEN HEATER AND HEATER CONTROL PANEL (TYP FOR 5)

CONNECT TO SHADE MOTOR (TYP FOR CIRCUIT)

ROUTE BELOW FLOOR (TYP)

HEXAGON INDICATES KITCHEN/BAR EQUIPMENT TAG, REFER TO THE KITCHEN/BAR EQUIPMENT SCHEDULE FOR CONNECTION REQUIREMENTS (TYP)

COORDINATE HEIGHT WITH ARCHITECT

(3)#10,#10G MDP-26,28,30

CONNECT TO SHADE MOTOR (TYP FOR CIRCUIT)

COORDINATE CONDUIT ROUTING AT PATIO WITH ARCH PRIOR TO ROUGH IN (TYP)

1 Floor Plan - Power
1/4"=1'-0"

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PROJECT NUMBER: 20-033
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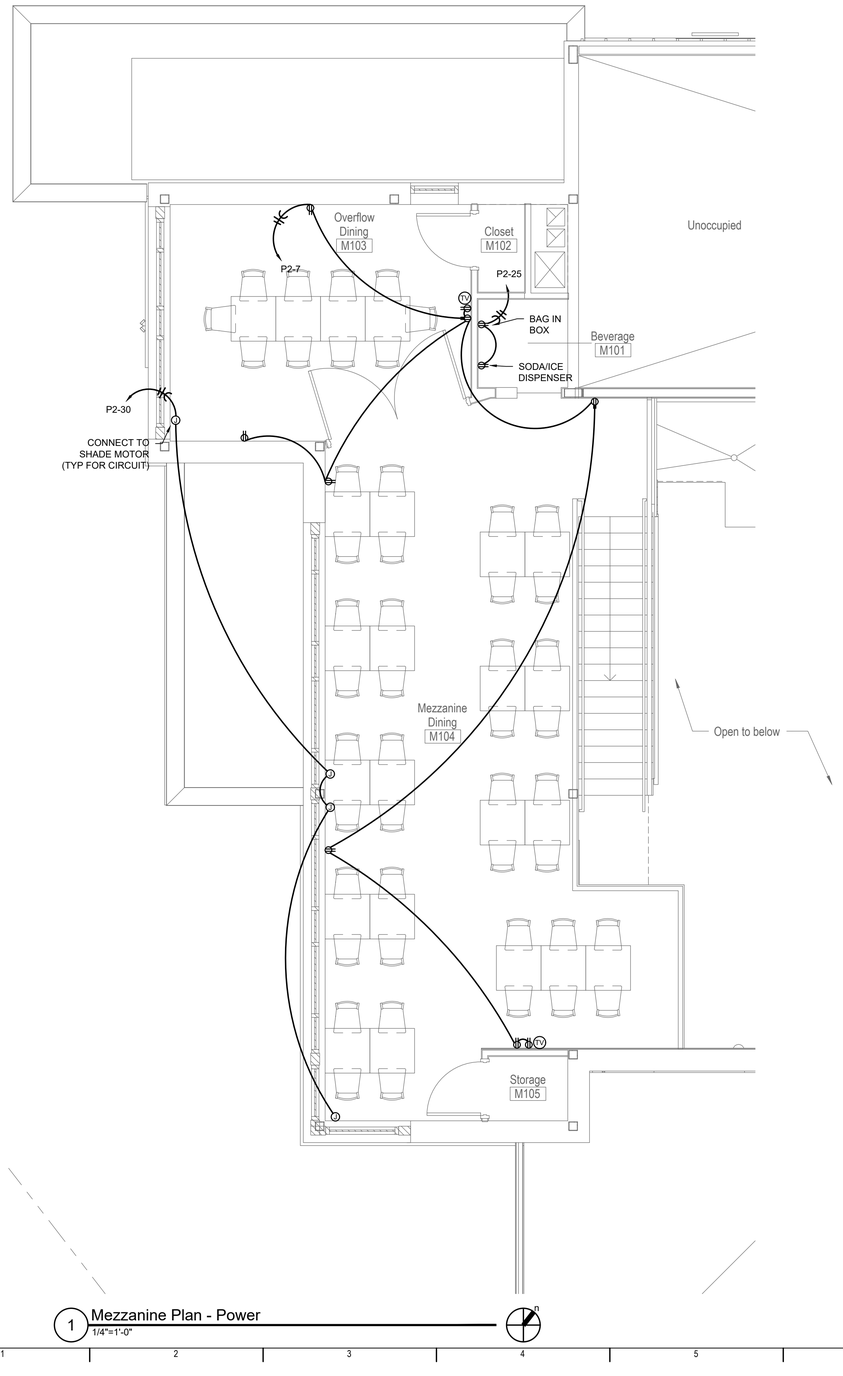
STATE OF MISSOURI
CORY A. MITCHELL
NUMBER PE-2007006928
PROFESSIONAL ENGINEER
4-16-21

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

Power Plan

E103



1 Mezzanine Plan - Power
1/4"=1'-0"

EQUIPMENT CONNECTION SCHEDULE

TAG	QTY	DESCRIPTION	AMPS	KW	VOLTS/ PHASE	CONNECTION							REMARKS
						PANEL/CIRC	CIRCUITING	OCPD	DIRECT	RECEPT	MTG HT (AFF)	DISC	
1	1	WALK-IN CLR LTS/HTR 1	5		120/1	P1-1	(2)#12,#12G,1/2"C	20A/1P CB	X			NOTE 4	
1.1	1	COOLER EVAPORATOR 13	1.6		120/1	P1-3	(2)#12,#12G,1/2"C	20A/1P CB	X			NOTE 4	
1.2	1	CLR REMOTE COMPRESSOR	7.4		208/1	P1-5	(2)#12,#12G,1/2"C	20A/2P CB	X			30A/2 WIRE N.F.	
5	1	MARINATOR	5		120/1		NOTE 3			5-15R	48"		
7	1	BEER LINE CHILLER	10		120/1	P1-9	(2)#12,#12G,1/2"C	20A/1P CB		5-20R			
8	LT	BAG-N-BOX	5		120/1	P1-11	(2)#12,#12G,1/2"C	20A/1P CB		5-20R	66"		
11	1	SLICER	2		120/1		NOTE 3			5-15R	48"		
13	1	WALK-IN CLR LTS/HTR 13	5		120/1	P1-13	(2)#12,#12G,1/2"C	20A/1P CB	X			NOTE 4	NOTE 6
13.1	2	COOLER EVAPORATOR 13	1.6		120/1	P1-3	(2)#12,#12G,1/2"C	20A/1P CB	X			NOTE 4	
13.2	1	CLR REMOTE COMP 13.2	13.4		208/1	P1-17	(2)#10,#10G,1/2"C	30A/2P CB	X			30A/2 WIRE N.F.	
16	1	DOUBLE CONVECTION OVEN	6		120/1	P1-21	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	24"/ 48"		NOTE 5, 9
17	1	EXH HOOD LTS/CONTROLS 17 EXHAUST FAN	5		120/1	P1-25	(2)#12,#12G,1/2"C NOTE 3	15A/1P CB	X				NOTE 1
21	1	MIXER	6		120/1		NOTE 3			5-15R	48"		
25	1	REACH-IN REF 25	6		120/1		NOTE 3			5-15R	88"		
26	1	REACH-IN FREEZER	10		120/1	P1-27	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	88"		
27	1	ICE MACHINE	15.9		208/1	P1-29	(2)#10,#10G,1/2"C	30A/2P CB	X		72"	30A/2 WIRE N.F.	
29	1	PIZZA OVEN	30		208/1	MDP-31	(2)#10,#10G,1/2"C	30A/2P CB	X	6-30R	38"		
30	1	UNDERCOUNTER REF	3.2		120/1	P1-33	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
32	1	EXH HOOD LTS/CONTROLS 32 EXHAUST FAN	5		120/1	P1-35	(2)#12,#12G,1/2"C NOTE 3	15A/1P CB	X				NOTE 1
33	1	REF EQUIPMENT STAND	4.8		120/1	P1-37	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
38	3	FRYER FRYER FILTER	0.7 7		120/1 120/1	P1-39	(2)#12,#12G,1/2"C	20A/1P CB		5-15R 5-15R	16" 16"		NOTE 2,5,7
39	1	HEAT LAMP	5		120/1	P1-43	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	48"		
41	2	WAFFLE BAKERS	10.8		120/1	P1-45/P1-47	(2)#12,#12G,1/2"C	20A/1P CB		5-20R	48"		
42	1	UNDERCOUNTER FREEZER	3.2		120/1	P1-49	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
43	1	POP UP TOASTER	15		120/1	P1-51	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	48"		
47	2	PRESSURE FRYER	10		120/1	P1-53/P1-57	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		NOTE 5
49	1	REACH-IN REF 49	6		120/1	P1-61	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	88"		
52	1	EXH HOOD LTS/CONTROLS 52 EXHAUST FAN	5		120/1	P1-63	(2)#12,#12G,1/2"C NOTE 3	15A/1P CB	X				NOTE 1
54	1	DOUGH SHEETER		0.37	120/1		NOTE 3			5-15R	48"		
55	1	CONVEYOR TOASTER	13.4		208/1	P1-65	(2)#12,#12G,1/2"C	20A/2P CB		6-20R	48"		
56	1	DRAWER WARMER 56	7.5		120/1	P1-69	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
57	1	SAND/SALAD REFRIGERATOR	4		120/1	P1-71	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
58	1	MICROWAVE	13.4		120/1	P1-73	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
60	1	HOT FOOD WELL	10		120/1	P1-75	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	48"		
61	1	HOT FOOD TABLE	7.21		208/1	P1-77	(2)#12,#12G,1/2"C	20A/2P CB		6-15R	16"		
62	1	SAND/SALAD PREP REF 62	6		120/1	P1-2	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
63	1	SAND/SALAD PREP REF 63	6		120/1	P1-4	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
67	1	MOBILE WARMING CABINET	12.6		120/1	P1-6	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
70	1	DISHMACHINE	48.75		208/3	MDP-37	(3)#6,#10G,3/4"C	60A/3P CB	X		66"	60A/3 WIRE N.F.	
70.1	1	DRAIN TEMPERING KIT	5		120/1	P1-8	(2)#12,#12G,1/2"C	20A/1P CB	X		8"	NOTE 4	
71	1	COND HOOD EXH FAN					NOTE 3						
75	9	DROP DOWN HEAT LAMPS		0.375	120/1		NOTE 8						
76	2	DROP-IN COLD PAN	8		120/1	P1-10/P1-12	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
77	1	DRAWER WARMER 77	3.8		120/1	P1-81	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
78	1	COOKER/ WARMER	8.3		120/1	P1-14	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
79	2	POS UNITS	-		120/1		NOTE 3						
81	2	SODA/ICE DISPENSER	5		120/1		NOTE 3			5-20R	16"		
82	1	COFFEE/TEA BREWER	13		208/1	P1-16	(2)#12,#12G,1/2"C	20A/2P CB		5-20R	48"		NOTE 2
83	1	COFFEE GRINDER	10		120/1	P1-20	(2)#12,#12G,1/2"C	20A/1P CB		5-20R	48"		NOTE 2
84	1	UNDERCOUNTER REF 84	12.5		120/1	P1-26	(2)#12,#12G,1/2"C	20A/1P CB		5-15R	16"		
B6	2	UNDERBAR REFRIGERATORS	2.75		120/1	P1-24	(2)#12,#12G,1/2"C	20A/1P CB		5-15R			NOTE 10
B8	1	GLASS WASHER	16		120/1	P1-30	(2)#12,#12G,1/2"C	20A/1P CB		5-20R			NOTE 2
B11	1	UNDERBAR POS STATIONS			120/1		NOTE 3						
B12	1	GLASS FROSTER	5		120/1	P1-22	(2)#12,#12G,1/2"C	20A/1P CB		5-20R			
B14	1	POS UNITS			120/1		NOTE 3						

GENERAL NOTE: ALL 120 VOLT, 20 AMP RECEPTACLES IN THE KITCHEN SHALL BE GFI TYPE. REFER TO THE FOOD SERVICE DRAWINGS FOR ROUGH IN LOCATIONS AND ADDITIONAL REQUIREMENTS

NOTE 1: EXTEND AND CONNECT TO HOOD ANSUL SYSTEM. REFER TO THE WIRING DIAGRAMS ON THE MECHANICAL SHEETS FOR ADDITIONAL CONNECTION REQUIREMENTS

NOTE 2: VERIFY CONNECTION REQUIREMENTS OF EQUIPMENT.

NOTE 3: REFER TO THE POWER PLANS FOR CIRCUITING.

NOTE 4: PROVIDE 120 VOLT, 20 AMP HORSEPOWER RATED SWITCH AT EQUIPMENT FOR DISCONNECTING MEANS.

NOTE 5: CONNECT TO SHUNT TRIP CIRCUIT BREAKER OR RELAY, CONNECT TO HOOD SUPPRESSION PANEL TO DISCONNECT POWER TO EQUIPMENT.

NOTE 6: CONNECT TO COOLER ACCESSORIES AND CONDENSATE PUMP. PROVIDE RECEPTACLE FOR PUMP, COORDINATE LOCATION.

NOTE 7: CONNECT ALL FRYERS AND FRYER FILTER ON A SINGLE CIRCUIT.

NOTE 8: REFER TO THE LIGHTING PLAN FOR CONNECTION. PROVIDE WALL SWITCHES FOR CONTROL, COORDINATE SWITCH LOCATION WITH OWNER.

NOTE 9: PROVIDE ONE CIRCUIT TO EACH OVEN IN STACK.

NOTE 10: CONNECT ALL ITEMS ON A SINGLE CIRCUIT

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/12/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
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Lot 1 Streets Of Pryor
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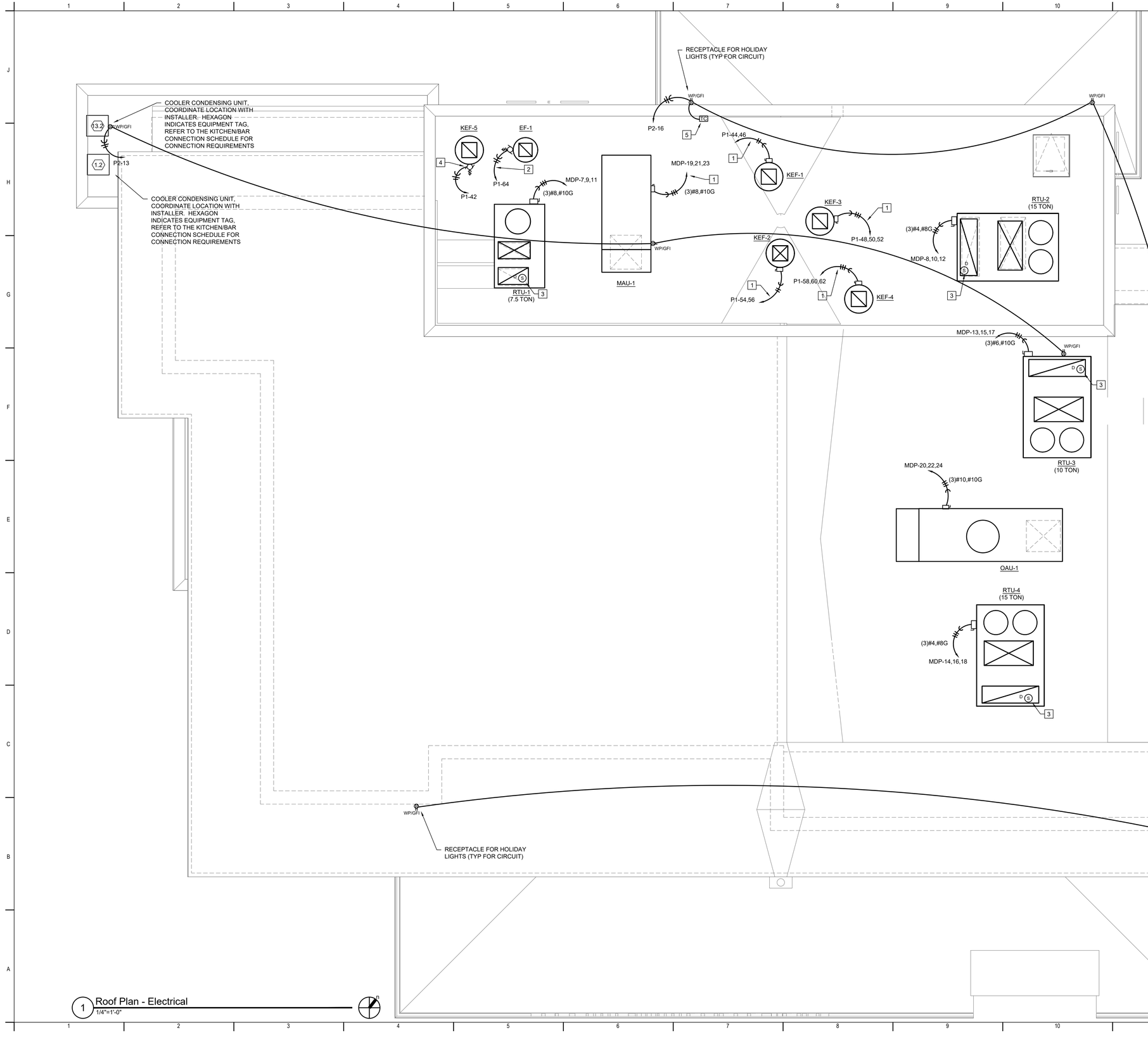
1 Bid/Permit Set	04.16.2021

Mezzanine Power Plan

E104



1 Roof Plan - Electrical
1/4"=1'-0"

GENERAL NOTES:

1. ALL WIRE SIZES BASED ON COPPER CONDUCTORS UNLESS NOTED OTHERWISE.

PLAN NOTES:

1. ROUTE THROUGH THE CONTROL PANEL AT THE HOOD BELOW. REFER TO THE MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND CONNECTION REQUIREMENTS.
2. ROUTE THROUGH TIMECLOCK IN THE MECHANICAL ROOM FOR CONTROL.
3. MOUNT IN THE RETURN DUCT OF THE UNIT. CONNECT TO THE UNIT FOR SHUTDOWN AND TO THE BUILDING FIRE ALARM SYSTEM FOR MONITORING.
4. CONNECT TO DISHWASHER HOOD EXHAUST FAN. PROVIDE PILOT LIGHT SWITCH AT DISHWASHER LOCATION BELOW AND ROUTE CIRCUIT TO PANEL VIA SWITCH FOR CONTROL.
5. PROVIDE TIMECLOCK WITH NEMA 3R ENCLOSURE FOR CONTROL OF HOLIDAY LIGHT RECEPTACLES ON CIRCUIT. PROVIDE LABEL 'HOLIDAY ROOF RECEPTACLES'.

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04/22/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
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Lee's Summit, MO

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Electrical Roof Plan

E105

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
06/02/2021

GENERAL

- ELECTRICAL NOTE REFERENCE
- REVISION NOTE REFERENCE
- EQUIPMENT CONNECTION TAG
- CONNECT TO EXISTING WORK
- DETAIL REFERENCE - NO./SHEET NO.

CONDUIT AND WIRE

- CONDUIT HOMERUN TO PANEL NOTED WITH (2)#12 AND (1)#12 AWG GROUND UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE CONDUCTORS, LONG MARKS INDICATE NEUTRAL CONDUCTORS.
- GROUND WIRE. #12 AWG UNLESS NOTED OTHERWISE.
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH (2)#12 AND (1)#12 AWG GROUND UNLESS NOTED OTHERWISE.
- CONDUIT BELOW GRADE OR FLOOR WITH WITH (2)#12 AND (1)#12 AWG GROUND UNLESS NOTED OTHERWISE.

LIGHTING

NOTE: FIXTURE DESIGNATIONS INDICATE TYPE, REFER TO LIGHT FIXTURE SCHEDULE

- WALL/CEILING MOUNTED EMERGENCY LIGHTING UNIT
- LIGHT FIXTURE
- NIGHT LIGHT FIXTURE
- CEILING MOUNTED SURFACE/RECESSED LIGHT
- CEILING MOUNTED SURFACE/RECESSED WALLWASH LIGHT. ARROW INDICATES DIRECTION.
- LIGHT FIXTURE WITH EMERGENCY BALLAST
- TRACK LIGHT
- POLE MOUNTED SITE LIGHT FIXTURE
- CEILING/WALL MOUNTED EXIT LIGHT. SHADING INDICATES FACES, ARROWS AS INDICATED

WIRING DEVICES

NOTE: REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS NOT LISTED.

- SIMPLEX, DUPLEX, AND QUAD RECEPTACLE. MOUNT AT 18" AFF TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
- ABOVE COUNTER RECEPTACLE, MOUNT 5" ABOVE BACKSPLASH OR COUNTER TOP, WHICHEVER IS HIGHER.
- RECEPTACLE DESIGNATIONS:
  GFI - GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
  WP - WEATHER RESISTANT RECEPTACLE WITH 'IN-USE' COVER.
  U - DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS, LEVITON T5832 OR EQUAL
- WALL SWITCH, SINGLE POLE. MOUNT AT 46" AFF TO CENTER OF DEVICE UNLESS NOTED OTHERWISE
- WALL SWITCH DESIGNATIONS:
  3 - THREE POLE SWITCH
  4 - FOUR-WAY WALL SWITCH
  D - WALLBOX DIMMER
- MS-1 MOTION SENSOR, CEILING MOUNTED. DESIGNATION INDICATES TYPE - REFER TO OCCUPANCY SENSOR SCHEDULE
- MS-1 MOTION SENSOR, WALL MOUNTED. DESIGNATION INDICATES TYPE - REFER TO OCCUPANCY SENSOR SCHEDULE. MOUNT AT 46" AFF TO CENTER OF DEVICE
- MULTI-SERVICE FLOOR BOX
- FLOOR BOX W/DUPLEX RECEPTACLE
- 6-20R NEMA RECEPTACLE, DESIGNATION INDICATES NEMA TYPE.

COMMUNICATIONS

- TELEPHONE OUTLET
- DATA OUTLET
- TELEPHONE/DATA OUTLET
- ABOVE COUNTER DEVICE, MOUNT 5" ABOVE BACKSPLASH OR COUNTER TOP, WHICHEVER IS HIGHER.
- TELEVISION OUTLET
- PLYWOOD BOARD FOR EQUIPMENT MOUNTING

POWER DEVICE AND CONTROLS

- 30/3/NF DISCONNECT SWITCH. 30/3/NF INDICATES AMPERAGE, NUMBER OF POLES, AND FUSING. NF = NON FUSED. MATCH CIRCUIT VOLTAGE. 240 VOLT, 3 POLE, 30 AMP NON FUSED IF BLANK.
- MOTOR
- PANELBOARD
- CONTACTOR
- PC PHOTOCELL
- J JUNCTION BOX
- PUSHBUTTON
- T TRANSFORMER
- TC TIMECLOCK

FIRE ALARM

MOUNT VISIBLE NOTIFICATION DEVICES WITH LENS AT 80-96" AFF AND A MINIMUM OF 6" BELOW CEILING. MOUNT HORNS AT 88" TO TOP OF DEVICE.

- F MANUAL PULL STATION
- S SMOKE DETECTOR
- S_D DUCT MOUNTED SMOKE DETECTOR
- S SINGLE/ MULTIPLE STATION SMOKE DETECTOR.
- H HEAT DETECTOR
- L 110 WALL MOUNTED VISIBLE NOTIFICATION DEVICE. NUMBER INDICATES CANDELA RATING, 110 CD IF NOT NOTED.
- HS 110 WALL MOUNTED COMBINATION VISIBLE/AUDIBLE NOTIFICATION DEVICE. NUMBER INDICATES CANDELA RATING, 110 CD IF NOT NOTED.
- FS FIRE PROTECTION SYSTEM WATER FLOW SWITCH
- TS FIRE PROTECTION SYSTEM VALVE TAMPER SWITCH
- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUCIATOR PANEL

ELECTRICAL ONE-LINE DIAGRAM

- PANELBOARD
- TRANSFORMER
- GROUNDING ELECTRODE
- M METER
- XXX FEEDER. "XXX" INDICATES FEEDER NUMBER, REFER TO FEEDER SCHEDULE FOR CIRCUIT CONDUCTORS AND CONDUIT SIZE.
- CIRCUIT BREAKER. XX/XP INDICATES AMPERAGE AND NUMBER OF POLES.
- FUSED SWITCH. XX/XX/XX INDICATES AMPERAGE, NUMBER OF POLES, AND FUSING.
- MOTOR

1 ELECTRICAL SYMBOLS
NO SCALE

COMcheck Software Version 4.1.2.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title:
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-vestibule/reception (Common Space Types:Lobby - General)	224	1.00	224
5-restrooms (Common Space Types:Restrooms)	349	0.85	297
2-storage (Common Space Types:Storage)	196	0.63	123
4-kitchen (Common Space Types:Food Preparation)	1119	1.06	1186
6-dining (Common Space Types:Dining Area - Bar Lounge/Leisure)	3686	0.93	3428
3-office (Common Space Types:Office - Enclosed)	52	0.93	48
		Total Allowed Watts =	5307

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-vestibule/reception (Common Space Types:Lobby - General)				
LED 1: C3: LED DL: LED PAR 12W:	1	7	12	84
LED 2: C2: LED DL: LED PAR 17W:	1	9	17	153
5-restrooms (Common Space Types:Restrooms)				
LED 3: C1A: LED DL: LED PAR 8W:	1	4	8	32
LED 4: Q1: LINEAR LED: LED Linear 17W:	1	1	17	17
LED 5: F3-3 : LED DL: LED PAR 20W:	1	4	25	100
LED 6: F3-5: LED DL: LED PAR 20W:	1	6	50	300
2-storage (Common Space Types:Storage)				
LED 8: B: LED STRIP: LED Panel 38W:	1	3	32	96
4-kitchen (Common Space Types:Food Preparation)				
LED 12: A2: LED 2X2: LED Panel 19W:	1	7	23	161
LED 9: A1: LED 2X4: LED Panel 38W:	1	6	39	234
6-dining (Common Space Types:Dining Area - Bar Lounge/Leisure)				
LED 23: L1: LED PENDANT: Other:	1	3	50	150
LED 8: B2: LED STRIP: LED Panel 38W:	1	1	24	24
LED 17: G2: LED STEP LT: LED Linear 22W:	1	4	3	12
LED 3: C1A: LED DL: LED PAR 8W:	1	1	8	8

Project Title: Report date: 04/06/21
Data filename: C:\Users\kcami\OneDrive - Welch & Mitchell, Inc\Public\WMI\Projects\2021\2110300 Red Door Grille Lee's Summit\Design\Comcheck RDG.cck Page 1 of 7

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 15: K3: LED DL: LED PAR 8W:	1	16	9	144
LED 13: C1B: LED DL: LED PAR 8W:	1	1	12	12
LED 12: K2: LED DL: LED PAR 8W:	1	18	13	234
LED 11: KIAKIB: LED DL: LED PAR 8W:	1	20	19	380
LED 10: P1: LED DL: LED PAR 8W:	1	3	20	60
LED 16: G1: LED SCONCE: LED PAR 20W:	1	4	30	120
LED 18: N1: LED PENDANT: LED Other Fixture Unit 60W:	1	4	77	308
LED 19: F1X: LED TAPE: LED Other Fixture Unit 125W:	1	1	200	200
Track lighting 1: Wattage based on current limiting device capacity	0	0	2400	2400
3-office (Common Space Types:Office - Enclosed)				
LED 9: A1: LED 2X4: LED Panel 38W:	1	1	39	39
			Total Proposed Watts =	5268

Interior Lighting PASSES: Design 1% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in *COMcheck Version 4.1.2.0* and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Cory Mitchell - designer
Name - Title

Signature

4-6-21
Date

Project Title: Report date: 04/06/21
Data filename: C:\Users\kcami\OneDrive - Welch & Mitchell, Inc\Public\WMI\Projects\2021\2110300 Red Door Grille Lee's Summit\Design\Comcheck RDG.cck Page 2 of 7

ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

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PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS		DATE
1 Bid/Permit Set		04.16.2021

Electrical Schedules

E201

ELECTRICAL PANEL SCHEDULE
PANEL MDP

LOCATION: | MAIN OCPD: 800 A | SECTIONS: 1 - 42 CIRCUIT
VOLTAGE: 208Y/120 V | MAIN BUS RATING: 800 A | GROUND BUS: EQUIPMENT GROUND BUS
PHASE/WIRE: 3 PH / 4 W | MIN AIC: 25,000 A | NEUTRAL BUS: 100% NEUTRAL
MOUNTING: SURFACE | SERVICE ENTRANCE: NO | ACCESSORIES:

CIRC	LOAD DESCRIPTION	OCPD POLES	OCPD AMPS	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	OCPD AMPS	OCPD POLES	LOAD DESCRIPTION	CIRC
1	PANEL P1	3	200	22.6			9.2			100	3	PANEL P2	2
3					21.7			10.6					4
5						20.3			12.6				6
7	RTU-1	3	50	4.3			8.1			100	3	RTU-2	8
9					4.3			8.1					10
11						4.3			8.1				12
13	RTU-3	3	60	5.7			8.1			100	3	RTU-4	14
15					5.7			8.1					16
17						5.7			8.1				18
19	MAU-1	3	45	2.5			2.7			35	3	OAU-1	20
21					2.5			2.7					22
23						2.5			2.7				24
25	EDH-1	3	15	1.0						25	3	EDH-2	26
27					1.0			2.0					28
29						1.0			2.0				30
31	PIZZA OVEN	2	30	3.1			1.8			100	3	LTG CONT PNL LP	32
33					3.1			1.8					34
35						3.1			1.8				36
37	DISHMACHINE	3	60	5.9							3	SPACE	38
39					5.9								40
41						5.9							42
	SUBTOTAL			*45.1*	*44.1*	*42.7*	*29.8*	*33.2*	*35.2*			*SUBTOTAL*	

LOAD SUMMARY	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
A/C MOTOR (MAX/REMAINDER)	78.1	1.25/1.00	84.2
OTHER MOTOR (MAX/REMAINDER)	59.0	1.00/1.00	59.0
RECEPTACLES (0-10KVA/REMAINDER)	20.0	1.00/0.50	15.0
LIGHTS	9.2	1.25	11.5
HEAT	9.0		
OTHER	8.4	1.00	8.4
KITCHEN	48.4	0.65	31.5
TOTAL	232.203		209.6

CONN. AMPS: 644.5
DEMAND AMPS: 581.8
NOTES:
ST - SHUNT TRIP

ELECTRICAL PANEL SCHEDULE
PANEL P2

LOCATION: | MAIN OCPD: MLO | SECTIONS: 1 - 42 CIRCUIT
VOLTAGE: 208Y/120 V | MAIN BUS RATING: 100 A | GROUND BUS: EQUIPMENT GROUND BUS
PHASE/WIRE: 3 PH / 4 W | MIN AIC: 18,000 A | NEUTRAL BUS: 100% NEUTRAL
MOUNTING: SURFACE | SERVICE ENTRANCE: NO | ACCESSORIES:

CIRC	LOAD DESCRIPTION	OCPD POLES	OCPD AMPS	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	OCPD AMPS	OCPD POLES	LOAD DESCRIPTION	CIRC
1	KITCHEN MONITORS	1	20	1.1			1.3			20	1	RECEPTION/VEST REC	2
3	OFFICE RECEPTS	1	20		0.9			1.1		20	1	KITCHEN RECEPTS	4
5	HAND DRYER	1	20			1.5			1.5	20	1	HAND DRYER	6
7	MEZZANINE RECEPTS	1	20	1.6			0.5			20	1	FACP	8
9	I.T. RECEPT	1	20		1.0			1.0		20	1	I.T. RECEPT	10
11	EXTERIOR SIGNS	1	20			1.3			1.0	20	1	EXTERIOR SIGN	12
13	ROOF RECEPTS	1	20	0.5			0.4			20	1	PICKUP POS	14
15	PICKUP SODA	1	20		1.2			0.7		20	1	ROOF RECEPTS	16
17	REACH IN REF/KIT/VEST REC	1	20			1.1			1.6	20	1	MIXER/SHEETER/SLICER	18
19	PATIO RECEPTACLES	1	20	1.1			1.2			20	1	PATIO REC/HEATERS	20
21	BAR RECEPTACLES	1	20		1.4			0.4		20	1	BAR POS	22
23	DINING RECEPTACLES	1	20			0.7			1.4	20	1	WATER HEATERS/PUMP	24
25	ICE/SODA DISP	1	20	0.4			1.3			20	1	BAR SEATING REC	26
27	PATIO SHADES	1	20		1.4			1.4		20	1	PATIO SHADES	28
29	INTERIOR SHADES	1	20			1.1			1.4	20	1	MEZZ SHADES	30
31	SPARE	1	20							20	1	SPARE	32
33	SPARE	1	20							20	1	SPARE	34
35	SPARE	1	20							20	1	SPARE	36
37	SPARE	1	20							20	1	SPARE	38
39	SPARE	1	20							20	1	SPARE	40
41	SPARE	1	20							20	1	SPARE	42
	SUBTOTAL			*4.7*	*6.0*	*5.7*	*4.6*	*4.7*	*6.9*			*SUBTOTAL*	

LOAD SUMMARY	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
A/C MOTOR (MAX/REMAINDER)		1.25/1.00	
OTHER MOTOR (MAX/REMAINDER)	6.8	1.25/1.00	7.5
RECEPTACLES (0-10KVA/REMAINDER)	20.0	1.00/0.50	15.0
LIGHTS	2.3	1.25	2.8
HEAT		1.00	
OTHER		1.00	
KITCHEN	3.5	0.65	2.2
TOTAL	32.5		27.6

CONN. AMPS: 90.2
DEMAND AMPS: 76.5
NOTES:
ST - SHUNT TRIP

ELECTRICAL PANEL SCHEDULE
PANEL P1

LOCATION: | MAIN OCPD: MLO | SECTIONS: 2 - 42 CIRCUIT
VOLTAGE: 208Y/120 V | MAIN BUS RATING: 225 A | GROUND BUS: EQUIPMENT GROUND BUS
PHASE/WIRE: 3 PH / 4 W | MIN AIC: 25,000 A | NEUTRAL BUS: 100% NEUTRAL
MOUNTING: SURFACE | SERVICE ENTRANCE: NO | ACCESSORIES: FEED THROUGH LUGS

CIRC	LOAD DESCRIPTION	OCPD POLES	OCPD AMPS	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	OCPD AMPS	OCPD POLES	LOAD DESCRIPTION	CIRC
1	WALK-IN CLR LTS/HTR 1	1	20	0.6			1.4			20	1	SAND/SALAD PREP REF 62	2
3	COOLER EVAPORATOR 13	1	20		0.2			1.4		20	1	SAND/SALAD PREP REF 63	4
5	CLR REMOTE COMPRESSOR	2	20			0.8			1.5	20	1	MOBILE WARMING CABINET	6
7				0.8			0.6			20	1	DRAIN TEMPERING KIT	8
9	BEER LINE CHILLER	1	20		1.2			1.0		20	1	DROP-IN COLD PAN	10
11	BAG-N-BOX	1	20			0.6			1.0	20	1	DROP-IN COLD PAN	12
13	WALK-IN CLR LTS/HTR 13	1	20	0.6			1.0			20	1	COOKER/ WARMER	14
15	COOLER EVAPORATOR 13	1	20		0.2			1.4		20	2	COFFEE/TEA BREWER	16
17	CLR REMOTE COMP 13.2	2	30			1.4			1.4				18
19				1.4			1.2			20	1	COFFEE GRINDER	20
21	DOUBLE CONVECTION OVEN	1	20-ST		0.7			0.6		20	1	GLASS FROSTER	22
23	SHUNT TRIP SPACE								0.7	20	1	UNDERBAR REFRIGERATORS	24
25	EXH HOOD LTS/CONTROLS 17	1	15	0.6			1.5			20	1	UNDERCOUNTER REF 84	26
27	REACH-IN FREEZER	1	20		1.2			0.7		20	1	UNDERBAR REFRIGERATORS	28
29	ICE MACHINE	2	30			1.7			1.9	20	1	GLASS WASHER	30
31				1.7						20	1	SPARE	32
33	UNDERCOUNTER REF	1	20		0.4					20	1	SPARE	34
35	EXH HOOD LTS/CONTROLS 32	1	15			0.6				20	1	SPARE	36
37	REF EQUIPMENT STAND	1	20	0.6			1.9			20	1	HEAT LAMPS	38
39	FRYER	1	20-ST		0.1			1.5		20	1	HEAT LAMPS	40
41	SHUNT TRIP SPACE								1.2	20	1	KEF-5	42
43	HEAT LAMP	1	20	0.6			0.8			15	2	KEF-1	44
45	WAFFLE BAKERS	1	20		1.3			0.8					46
47	WAFFLE BAKERS	1	20			1.3			0.9	15	3	KEF-3	48
49	UNDERCOUNTER FREEZER	1	20	0.4			0.9						50
51	POP UP TOASTER	1	20		1.8			0.9					52
53	PRESSURE FRYER	1	20-ST			1.2			0.8	15	2	KEF-2	54
55	SHUNT TRIP SPACE						0.8						56
57	PRESSURE FRYER	1	20-ST		1.2			0.8		15	3	KEF-4	58
59	SHUNT TRIP SPACE								0.8				60
61	REACH-IN REF 49	1	20	0.7			0.8						62
63	EXH HOOD LTS/CONTROLS 52	1	15		0.6			1.2		20	1	EF-1	64
65	CONVEYOR TOASTER	2	20			1.4				20	1	SPARE	66
67				1.4						20	1	SPARE	68
69	DRAWER WARMER 56	1	20		0.9					20	1	SPARE	70
71	SAND/SALAD REFRIGERATOR	1	20			0.5				20	1	SPARE	72
73	MICROWAVE	1	20	1.6						20	1	SPARE	74
75	HOT FOOD WELL	1	20		1.2					20	1	SPARE	76
77	HOT FOOD TABLE	2	20			0.7					1	SPACE	78
79				0.7							1	SPACE	80
81	DRAWER WARMER 77	1	20		0.5						1	SPACE	82
83	SPARE	1	20								1	SPACE	84
	SUBTOTAL			*11.6*	*11.4*	*10.1*	*11.0*	*10.2*	*10.1*			*SUBTOTAL*	

LOAD SUMMARY	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
A/C MOTOR (MAX/REMAINDER)		1.25/1.00	
OTHER MOTOR (MAX/REMAINDER)	31.2	1.25/1.00	32.3
RECEPTACLES (0-10KVA/REMAINDER)		1.00/0.50	
LIGHTS	7.0	1.25	8.7
HEAT		1.00	
OTHER	8.4	1.00	8.4
KITCHEN	18.1	0.65	11.7
TOTAL	64.555		61.1

CONN. AMPS: 179.2
DEMAND AMPS: 169.7
NOTES:
ST - SHUNT TRIP

ELECTRICAL PANEL SCHEDULE
PANEL LP (DIMMING PANEL)

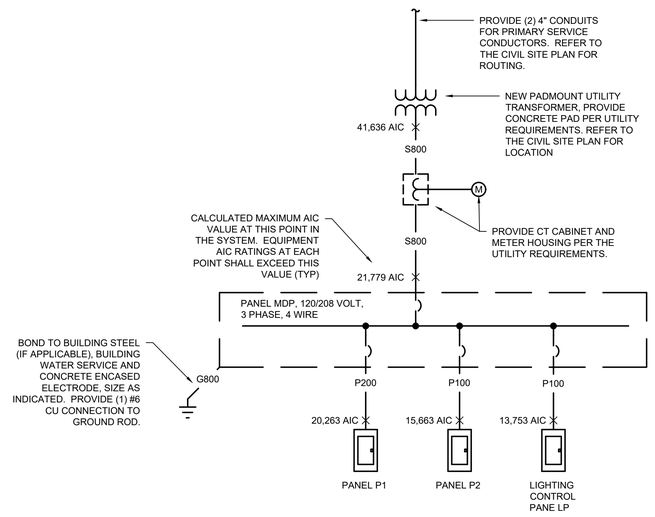
LOCATION: | MAIN OCPD: MLO | SECTIONS: 1 - 12 CIRCUIT
VOLTAGE: 208Y/120 V | MAIN BUS RATING: 100 A | GROUND BUS: EQUIPMENT GROUND BUS
PHASE/WIRE: 3 PH / 4 W | MIN AIC: 18,000 A | NEUTRAL BUS: 100% NEUTRAL
MOUNTING: SURFACE | SERVICE ENTRANCE: NO | ACCESSORIES:

CIRC	LOAD DESCRIPTION	OCPD POLES	OCPD AMPS	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	LOAD (KVA) PHASE A	LOAD (KVA) PHASE B	LOAD (KVA) PHASE C	OCPD AMPS	OCPD POLES	LOAD DESCRIPTION	CIRC
1	EXTERIOR LTS	1	20	0.2			0.8			20	1	PATIO LIGHTING/FANS	2
3	KITCHEN/RR/OFF LTG	1	20		1.0			0.3		15	1	MEZZ TRACK/LTG	4
5	BAR LIGHTING	1	20			0.5			0.8	20	1	BAR LIGHTING	6
7	DINING LIGHTING	1	20	0.7						20	1	SPARE	8
9	SPARE	1	20								1	SPACE	10
11	SPACE	1									1	SPACE	12
	SUBTOTAL			*0.9*	*1.0*	*0.5*	*0.8*	*0.3*	*0.8*			*SUBTOTAL*	

LOAD SUMMARY	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
A/C MOTOR (MAX/REMAINDER)		1.25/1.00	
OTHER MOTOR (MAX/REMAINDER)		1.25/1.00	
RECEPTACLES (0-10KVA/REMAINDER)		1.00/0.50	
LIGHTS	4.2	1.25	5.3
HEAT		1.00	
OTHER		1.00	
KITCHEN		0.65	
TOTAL	4.248		5.3

CONN. AMPS: 11.8
DEMAND AMPS: 14.7
NOTES: PANEL IS INTEGRAL TO THE LIGHTING CONTROL PANEL. REFER TO THE LIGHTING PLAN FOR REQUIREMENTS

PANEL LP NOTE: BRANCH CIRCUIT BREAKERS ARE INTEGRAL TO THE LIGHTING CONTROL PANEL. REFER TO THE LIGHTING PLANS FOR ADDITIONAL INFORMATION



1 ELECTRICAL ONE-LINE DIAGRAM
NO SCALE

NOTE: ALL FEEDERS SIZES ARE BASED ON ALUMINUM CONDUCTORS EXCEPT WHERE NOTED AS COPPER

FEEDER SCHEDULE	
TAG	CONDUCTORS AND CONDUIT
S800	3 SETS (4)#400,3-1/2"C
P100	(4)#1,#6G,2"C
P200	(4)#250,#4G,2-1/2"C
G800	#2/0G,1"C (COPPER)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/12/2021

URBAN PRAIRIE ARCHITECTURAL COLLABORATIVE, P.C.

Red Door Grill - Lee's Summit
Construction Documents
Lot 1 Streets Of Pryor
Lee's Summit, MO

STATE OF MISSOURI
CORY A. [illegible]
NUMBER PE-2007006928
PROFESSIONAL ENGINEER
4-16-21

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Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

Electrical Schedules

E202

ELECTRICAL SPECIFICATIONS

1.COMMON WORK RESULTS FOR ELECTRICAL

COORDINATION
Coordinate arrangement, mounting, and support of electrical equipment:
To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
To provide for ease of disconnecting the equipment with minimum interference to other installations.
To allow right of way for piping and conduit installed at required slope.
So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.
Coordinate location of access panels and doors for electrical items that are behind finished surfaces or otherwise concealed.

PRODUCTS

SLEEVE SEALS
Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and raceway or cable.
Manufacturers:
Advance Products & Systems, Inc.
Calpico, Inc.
Metraflex Co.
Pipeline Seal and Insulator, Inc.
Sealing Elements: EPDM interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
Pressure Plates: Plastic. Include two for each sealing element.
Connecting Bolts and Nuts: Stainless steel of length required to secure pressure plates to sealing elements. Include one for each sealing element.

EXECUTION

COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION
Comply with NECA 1.
SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS
Electrical penetrations occur when raceways, cables, wireways, cable trays, or busways penetrate concrete slabs, concrete or masonry walls, or fire-rated floor and wall assemblies.
Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
Cut sleeves to length for mounting flush with both surfaces of walls.
Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint.
Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Install sleeves and seal raceway and cable penetration sleeves with firestop materials.
Roof-Penetration Sleeves: Seal penetration of individual raceways and cables with flexible boot-type flashing units applied in coordination with roofing work.
Aboveground, Exterior-Wall Penetrations: Seal penetrations using steel pipe sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
Underground, Exterior-Wall Penetrations: Install cast-iron pipe sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between raceway or cable and sleeve for installing mechanical sleeve seals.
SLEEVE-SEAL INSTALLATION
Install to seal exterior wall penetrations.
FIRESTOPPING
Apply firestopping to penetrations of fire-rated floor and wall assemblies for electrical installations to restore original fire-resistance rating of assembly.

2.GROUNDING AND BONDING

QUALITY ASSURANCE
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
Comply with UL 467 for grounding and bonding materials and equipment.

PRODUCTS

CONDUCTORS
Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
Bare Copper Conductors:
Solid Conductors: ASTM B 3.
Stranded Conductors: ASTM B 8.

EXECUTION

APPLICATIONS
Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger, unless otherwise indicated.
Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated. Install bus on insulated spacers 1 inch (25 mm), minimum, from wall 6 inches (150 mm) above finished floor, unless otherwise indicated.
EQUIPMENT GROUNDING
Install insulated equipment grounding conductors with all feeders and branch circuits.

3.HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

QUALITY ASSURANCE
Comply with NFPA 70.

PRODUCTS

SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS
Raceway and Cable Supports: As described in NECA 1 and NECA 101.
Conduit and Cable Support Devices: Steel and malleable-iron hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.

EXECUTION

APPLICATION
Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.
Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as required by NFPA 70. Minimum rod size shall be 1/4 inch (6 mm) in diameter.
Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits. Secure raceways and cables to these supports with two-bolt conduit clamps.
SUPPORT INSTALLATION
Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.
Raceway Support Methods: In addition to methods described in NECA 1, EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.
Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
To Wood: Fasten with lag screws or through bolts.
To New Concrete: Bolt to concrete inserts.
To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
To Existing Concrete: Expansion anchor fasteners.
Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches (100 mm) thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches (100 mm) thick.
To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.
To Light Steel: Sheet metal screws.
Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate.

4. CONDUCTORS AND CABLES

QUALITY ASSURANCE
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
Comply with NFPA 70.

PRODUCTS

CONDUCTORS AND CABLES
Manufacturers: Subject to compliance with requirements, provide products by one of the following:
Alcan Products Corporation; Alcan Cable Division.
American Insulated Wire Corp.; a Leviton Company.
General Cable Corporation.
Senator Wire & Cable Company.
Southwire Company.
Copper Conductors: Comply with NEMA WC 70.
Conductor Insulation: Comply with NEMA WC 70 for Type THHN-THWN.
Multiconductor Cable: Comply with NEMA WC 70 for metal-clad cable, Type MC with ground wire.
CONNECTORS AND SPLICES
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
AFC Cable Systems, Inc.
Hubbell Power Systems, Inc.
O-Z/Gedney; EGS Electrical Group LLC.
3M; Electrical Products Division.
Tyco Electronics Corp.
Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

EXECUTION

CONDUCTOR MATERIAL APPLICATIONS
Feeders: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS
Service Entrance, Feeders: Type THHN-THWN, single conductors in raceway.
Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-THWN, single conductors in raceway.
Branch Circuits not Concealed in Concrete: Type THHN-THWN, single conductors in raceway or Metal-clad Cable, Type MC.
INSTALLATION OF CONDUCTORS AND CABLES
Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.
Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.
Identify and color-code conductors and cables according to Section "Hangers and Supports for Electrical Systems."

5.RACEWAYS AND BOXES

QUALITY ASSURANCE
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
Comply with NFPA 70.

PRODUCTS

METAL CONDUIT AND TUBING
Manufacturers: Subject to compliance with requirements, provide products by one of the following:
Allied Tube & Conduit; a Tyco International Ltd. Co.
O-Z Gedney; a unit of General Signal.
Wheatland Tube Company.
Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable: NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.
Conduit Fittings for Hazardous (Classified) Locations: Comply with UL 886.
Fittings for EMT: Steel or die-cast, set-screw or compression type for concealed locations. Steel or die-cast, compression type for exposed locations.
NONMETALLIC CONDUIT AND TUBING
Manufacturers: Subject to compliance with requirements, provide products by one of the following:
CANTEX Inc.
CertainTeed Corp.; Pipe & Plastics Group.
RACO; a Hubbell Company.
Thomas & Betts Corporation.
BOXES, ENCLOSURES, AND CABINETS
Manufacturers: Subject to compliance with requirements, provide products by one of the following:
Hoffman.
Hubbell Incorporated; Killark Electric Manufacturing Co. Division.
O-Z/Gedney; a unit of General Signal.
RACO; a Hubbell Company.
Thomas & Betts Corporation.
Walker Systems, Inc.; Wiremold Company (The).

EXECUTION

RACEWAY APPLICATION
Outdoors: Apply raceway products as specified below, unless otherwise indicated:
Exposed and Concealed Conduit: Rigid steel conduit.
Underground Conduit: RNC, Type EPC-40-PVC, direct buried.
Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFNC.
Boxes and Enclosures, Aboveground: NEMA 250, Type 3R.
Comply with the following indoor applications, unless otherwise indicated:
Exposed: EMT.
Concealed in Ceilings and Interior Walls and Partitions: EMT, unless MC allowed per “Conductors and Cables” section.
Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.
Damp or Wet Locations: Rigid steel conduit.
Raceways for Optical Fiber or Communications Cable: EMT.
Boxes and Enclosures: NEMA 250, Type 1, except use NEMA 250, Type 4, nonmetallic in damp or wet locations.
Minimum Raceway Size: 1/2-inch (16-mm) trade size.
Do not install aluminum conduits in contact with concrete.
INSTALLATION
Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.
Keep raceways at least 6 inches (150 mm) away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.
Support raceways as specified in "Hangers and Supports for Electrical Systems."
Arrange stub-ups so curved portions of bends are not visible above the finished slab.
Install no more than the equivalent of three 90-degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.
Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.
Raceways Embedded in Slabs:
Run conduit larger than 1-inch (27-mm) trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.
Arrange raceways to cross building expansion joints at right angles with expansion fittings.
Change from ENT to RNC, Type EPC-40-PVC, rigid steel conduit, or IMC before rising above the floor.
Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than No. 4 AWG.
Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb (90-kg) tensile strength. Leave at least 12 inches (300 mm) of slack at each end of pull wire.
Raceways for Optical Fiber and Communications Cable: Install raceways, metallic and nonmetallic, rigid and flexible, with a maximum of two 90-degree bends or equivalent for each length of raceway unless Drawings show stricter requirements. Separate lengths with pull or junction boxes or terminations at distribution frames or cabinets where necessary to comply with these requirements.
Flexible Conduit Connections: Use maximum of 72 inches (1830 mm) of flexible conduit for recessed and semirecessed lighting fixtures, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.
Use LFMC in damp or wet locations subject to severe physical damage.
Use LFMC or LFNC in damp or wet locations not subject to severe physical damage.
Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall.

6.WIRING DEVICES

QUALITY ASSURANCE
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
Comply with NFPA 70.
COORDINATION
Receptacles for Owner-Furnished Equipment: Match plug configurations.
Cord and Plug Sets: Match equipment requirements.

PRODUCTS

STRAIGHT BLADE RECEPTACLES
Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration 5-20R, and UL 498.
Products: Subject to compliance with requirements, provide one of the following:
Cooper; 5351 (single), 5352 (duplex).
Hubbell; HBL5351 (single), CR5352 (duplex).
Leviton; 5891 (single), 5352 (duplex).
Pass & Seymour; 5381 (single), 5352 (duplex).
GFCI RECEPTACLES
Duplex GFCI Convenience Receptacles, 125 V, 20 A:
Products: Subject to compliance with requirements, provide one of the following:
Cooper; GF20.
Pass & Seymour; 2084.
Hubbell Equal
Leviton Equal.
SNAP SWITCHES
Switches, 120/277 V, 20 A:
Products: Subject to compliance with requirements, provide one of the following:
Cooper; 2221 (single pole), 2222 (two pole), 2223 (three way), 2224 (four way).
Hubbell; CS1221 (single pole), CS1222 (two pole), CS1223 (three way), CS1224 (four way).
Leviton; 1221-2 (single pole), 1222-2 (two pole), 1223-2 (three way), 1224-2 (four way).
Pass & Seymour; 20AC1 (single pole), 20AC2 (two pole), 20AC3 (three way), 20AC4 (four way).
WALL-BOX DIMMERS
Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on-off switches, with audible frequency and EMI/RFI suppression filters.
Control: Continuously adjustable slider; with single-pole or three-way switching. Comply with UL 1472. Coordinate dimmer type with light source controlled and coordinate capacity with connected load.
WALL PLATES
Single and combination types to match corresponding wiring devices.
Plate-Securing Screws: Metal with head color to match plate finish.
Material for Finished Spaces: Smooth, high-impact thermoplastic.
Material for Unfinished Spaces: Galvanized steel.
Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in "wet locations."
Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with type 3R weather-resistant, die-cast aluminum with lockable cover.

EXECUTION

INSTALLATION
Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.
Mounting Heights. Mount devices at the following heights above finished floor unless noted otherwise.
Receptacles and communications outlets: 18" to center of device.
Above counter receptacles and communications outlets: 5" above the backsplash or counter top, whichever is higher.
Switches: 46" to center of device.

7.LIGHTING CONTROL DEVICES

QUALITY ASSURANCE
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
COORDINATION
Coordinate layout and installation of ceiling-mounted devices with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, smoke detectors, fire-suppression system, and partition assemblies.

PRODUCTS

TIME SWITCHES
Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
Intermatic, Inc.
Square D; Schneider Electric.
TORK.
Watt Stopper (The).
Electronic Time Switches: Electronic, solid-state programmable units with alphanumeric display; complying with UL 917.
Contact Configuration: SPST.
Contact Rating: 20-A ballast load, 120/240-V ac.
Program: 2 on-off set points on a 24-hour schedule, allowing different set points for each day of the week.
Circuitry: Allow connection of a photoelectric relay as substitute for on-off function of a program.
Astronomic Time: All channels.
Battery Backup: For schedules and time clock.
OUTDOOR PHOTOELECTRIC SWITCHES
Basis-of-Design Product: Subject to compliance with requirements, provide a product by one of the following:
Intermatic, Inc.
Square D; Schneider Electric.
TORK.
Watt Stopper (The).
Description: Solid state, with SPST dry contacts rated for 1800 VA to operate connected load, relay, or contactor coils; complying with UL 773.
Light-Level Monitoring Range: 1.5 to 10 fc (16.14 to 108 lx), with an adjustment for turn-on and turn-off levels within that range.
Time Delay: 30-second minimum, to prevent false operation.
Lightning Arrester: Air-gap type.
Mounting: Twist lock complying with IEEE C136.10, with base.

EXECUTION

FIELD QUALITY CONTROL
Operational Test: Verify operation of each lighting control device, and adjust time delays.

8.ENCLOSED SWITCHES

QUALITY ASSURANCE
Product Selection for Restricted Space: Drawings indicate maximum dimensions for enclosed switches and circuit breakers, including clearances between enclosures, and adjacent surfaces and other items. Comply with indicated maximum dimensions.
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
Comply with NFPA 70.
COORDINATION
Coordinate layout and installation of switches and components with equipment served and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

PRODUCTS

FUSIBLE AND NONFUSIBLE SWITCHES
Manufacturers: Subject to compliance with requirements, provide products by one of the following:
Eaton Electrical Inc.; Cutler-Hammer Business Unit.
General Electric Company; GE Consumer & Industrial - Electrical Distribution.
Siemens Energy & Automation, Inc.
Square D; a brand of Schneider Electric.
Type GD, General Duty, Single Throw, 240-V ac, 800 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, with cartridge fuse interiors to accommodate indicated fuses, lockable handle with capability to accept two padlocks, and interlocked with cover in closed position.
Accessories:
Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
Lugs: Mechanical type, suitable for number, size, and conductor material.
ENCLOSURES
Enclosed Switches and Circuit Breakers: NEMA AB 1, NEMA KS 1, NEMA 250, and UL 50, to comply with environmental conditions at installed location.
Indoor, Dry and Clean Locations: NEMA 250, Type 1.
Outdoor Locations: NEMA 250, Type 3R.

EXECUTION

INSTALLATION
Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.
Comply with NECA 1.

9.PANELBOARDS

SUBMITTALS
Product Data: For each type of panelboard, switching and overcurrent protective device, transient voltage suppression device, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
Operation and Maintenance Data: For panelboards and components to include in emergency, operation, and maintenance manuals
QUALITY ASSURANCE
Source Limitations: Obtain panelboards, overcurrent protective devices, components, and accessories from single source from single manufacturer.
Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
Comply with NEMA PB 1.
Comply with NFPA 70.
COORDINATION
Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
WARRANTY
Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace transient voltage suppression devices that fail in materials or workmanship within specified warranty period. Warranty Period: Five years from date of Substantial Completion.
EXTRA MATERIALS
Keys: Two spares for each type of panelboard cabinet lock.

PRODUCTS

GENERAL REQUIREMENTS FOR PANELBOARDS
Manufacturers: Subject to compliance with requirements, provide products by one of the following:
Eaton Electrical Inc.; Cutler-Hammer Business Unit.
General Electric Company; GE Consumer & Industrial - Electrical Distribution.
Siemens Energy & Automation, Inc.
Square D; a brand of Schneider Electric.
Enclosures: Flush- and surface-mounted cabinets as scheduled.
Rated for environmental conditions at installed location.
Indoor Dry and Clean Locations: NEMA 250, Type 1.
Outdoor Locations: NEMA 250, Type 3R.
Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
Finishes:
Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
Back Boxes: Galvanized steel.
Phase, Neutral, and Ground Buses:
Material: Hard-drawn copper, 98 percent conductivity.
Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
Conductor Connectors: Suitable for use with conductor material and sizes.
Material: Hard-drawn copper, 98 percent conductivity.
Main and Neutral Lugs: Mechanical type.
Ground Lugs and Bus-Configured Terminators: Mechanical type.
Feed-Through Lugs: Mechanical type, suitable for use with conductor material.
Locate at opposite end of bus from incoming lugs or main device.
Service Equipment Label: NRTL labeled for use as service equipment for panelboards or load centers with one or more main service disconnecting and overcurrent protective devices.
Panelboard Short-Circuit Current Rating: Rated for series-connected system with integral or remote upstream overcurrent protective devices and labeled by an NRTL. Include size and type of allowable upstream and branch devices, listed and labeled for series-connected short-circuit rating by an NRTL.
LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS
Mains: Circuit breaker or lugs only as scheduled.
Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.

EXECUTION

INSTALLATION
Install panelboards and accessories according to NEMA PB 1.1.
Mount top of trim 90 inches (2286 mm) above finished floor unless otherwise indicated.
Mount panelboard cabinet plumb and rigid without distortion of box. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
Install filler plates in unused spaces.
Comply with NECA 1.
IDENTIFICATION
Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in Section "Electrical Identification."

10. LIGHTING

SUBMITTALS
Product Data: For each type of lighting fixture, arranged in order of fixture designation.
Include data on features, accessories, finishes, and the following:
Physical description of lighting fixture including dimensions.
Emergency lighting units including battery and charger.
Ballast.
Energy-efficiency data.
Photometric data, in IESNA format, based on laboratory tests of each lighting fixture type, outfitted with lamps, ballasts, and accessories identical to those indicated for the lighting fixture as applied in this Project.
Operation and Maintenance Data: For lighting equipment and fixtures to include in emergency, operation, and maintenance manuals.
Warranties: Special warranties specified in this Section.
QUALITY ASSURANCE
Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
Comply with NFPA 70.
COORDINATION
Coordinate layout and installation of lighting fixtures and suspension system with other construction that penetrates ceilings or is supported by them, including HVAC equipment, fire-suppression system, and partition assemblies.

EXECUTION

INSTALLATION
Support for Lighting Fixtures in or on Grid-Type Suspended Ceilings: Use grid as a support element.
Install a minimum of four ceiling support system rods or wires for each fixture.
Locate not more than 6 inches (150 mm) from lighting fixture corners.
Support Clips: Fasten to lighting fixtures and to ceiling grid members at or near each fixture corner with clips that are UL listed for the application.
Fixtures of Sizes Less Than Ceiling Grid: Install as indicated on reflected ceiling plans or center in acoustical panel, and support fixtures independently with at least two 3/4-inch (20-mm) metal channels spanning and secured to ceiling tees.
Install at least one independent support rod or wire from structure to a tab on lighting fixture. Wire or rod shall have breaking strength of the weight of fixture at a safety factor of 3.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/22/2021

ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

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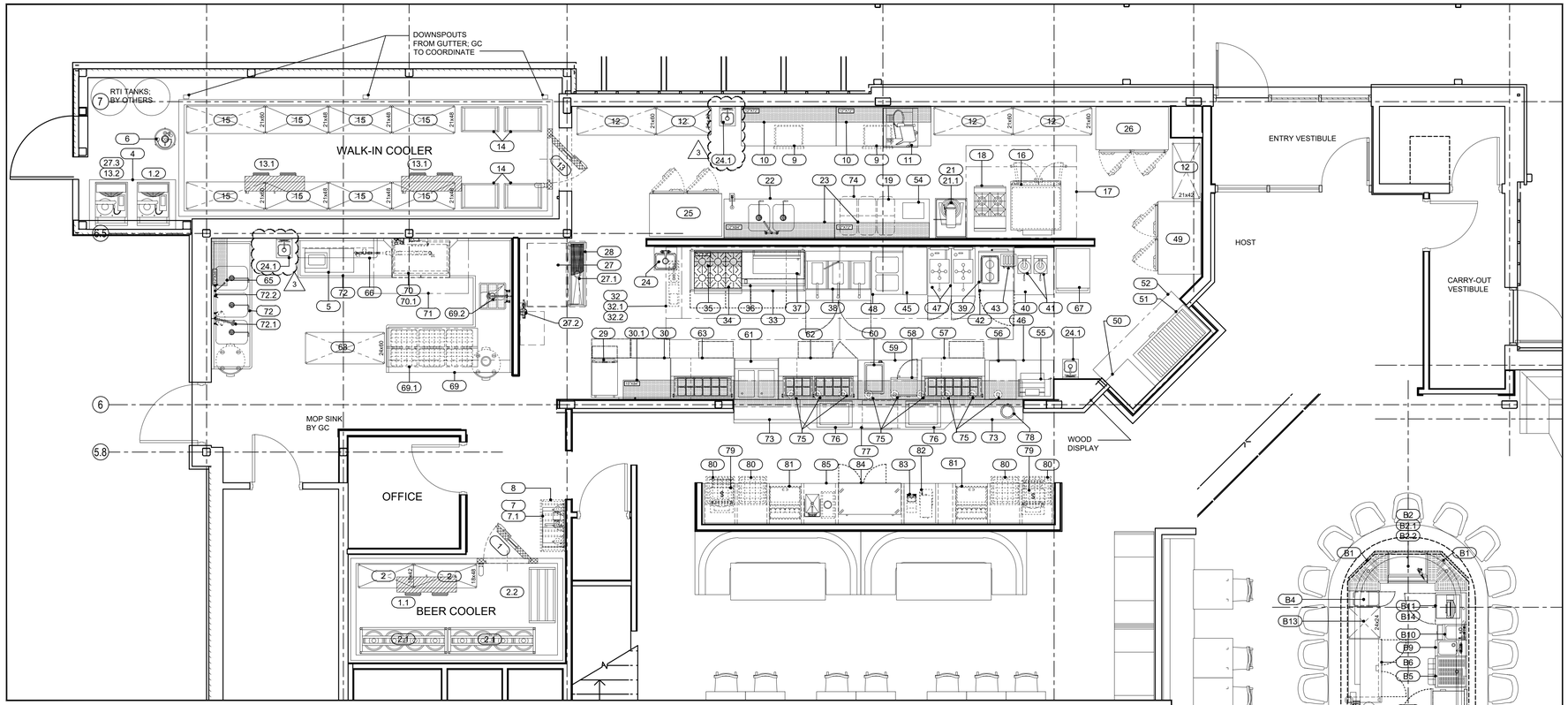
Missouri Certificate of Authority: #

PROJECT NUMBER: 20-033
ISSUE DATE: 10 March, 2021

REVISIONS	DATE
1 Bid/Permit Set	04.16.2021

Electrical Specifications

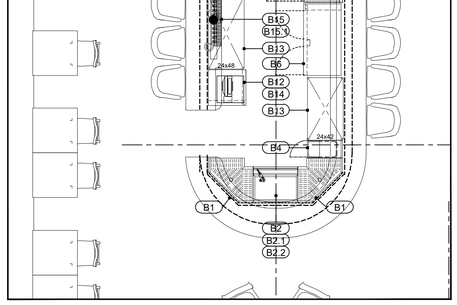
E301

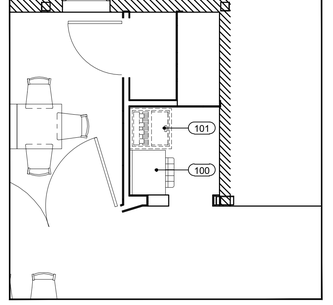


KITCHEN & BAR EQUIPMENT PLAN

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

ITEM NUMBER	QTY	BY VENDOR	KITCHEN DESCRIPTION
1	1	-	WALK-IN BEER COOLER
1.1	1	-	BEER COOLER EVAPORATOR
1.2	1	-	BEER COOLER REMOTE COMPRESSOR
2	LT	-	STORAGE SHELVING
2.1	LT	-	KEG RACKS
3	-	-	OPEN #
4	1	-	COMPRESSOR RACK, 2-TIER
5	1	-	MEAT MARINATOR, MOBILE
6	LT	X	CO2 - (BY OTHERS)
7	1	X	GLYCOL PUMP - (BY OTHERS)
7.1	1	X	WALL SHELF (BY OTHERS)
8	LT	X	BAG-N-BOX - (BY OTHERS)
9	2	-	WORKTABLES
10	LT	-	WALL GRID SHELVING
11	1	-	SLICER
12	LT	-	STORAGE SHELVING
13	1	-	WALK-IN COOLER
13.1	2	-	COOLER EVAPORATOR
13.2	1	-	COOLER REMOTE COMPRESSOR
14	2	-	PAN RACKS
15	LT	-	COOLER SHELVING
16	1	-	DOUBLE CONVECTION OVEN
17	1	X	EXHAUST HOOD & SYSTEMS - (BY OTHERS)
18	1	-	6-BURNER HOT PLATE
19	1	-	WORKTABLE
20	-	-	OPEN #
21	1	-	MIXER
21.1	1	-	MIXER STAND, MOBILE
22	1	-	PREP TABLE W/ SINKS, FAUCET & CAN OPENER
23	2	-	WALL GRID SHELVING
24	1	X	HAND SINK - (BY OTHERS)
24.1	3	X	HAND SINKS - (BY OTHERS)
25	1	-	REACH-IN REFRIGERATOR
26	1	-	REACH-IN FREEZER
27	1	X	ICE MACHINE - (BY OTHERS)
27.1	1	X	ICE BIN - (BY OTHERS)
27.2	1	X	WATER FILTER (BY OTHERS)
27.3	1	X	REMOTE COMPRESSOR (BY OTHERS)
28	1	-	FLOOR TROUGH
29	1	-	HIGH SPEED VENTLESS OVEN
30	1	-	UNDERCOUNTER REFRIGERATOR
30.1	-	-	DOUBLE OVERSHELF
31	-	-	OPEN #
32	1	X	EXHAUST HOOD & SYSTEMS - (BY OTHERS)
33	1	-	REFRIGERATED EQUIPMENT STAND
34	1	-	HOT PLATE, 6-BURNER
35	-	-	OVERSHELF
36	1	-	GRIDDLE
37	1	-	CHEESE MELTER
38	1	-	FRYERS, BATTERY OF 3
39	1	-	HEAT LAMP
40	1	-	WORKTABLE
41	2	-	WAFFLE BAKERS
42	1	-	UNDERCOUNTER FREEZER
43	1	-	TOASTER
44	-	-	OPEN #
45	1	-	LANDING TABLE
46	1	-	WORKTABLE
47	2	X	PRESSURE FRYERS
48	1	-	BREADING STATION
50	1	-	WORKTABLE
51	1	-	BROILER - (WOOD)
52	1	X	EXHAUST HOOD, FAN & MUA/ FIRE SYSTEM - (BY OTHERS)
53	-	-	OPEN #
54	1	-	DOUGH SHEETER
55	1	-	TOASTER - (CONVEYOR)
56	1	-	DRAWER WARMER
57	1	-	REFRIGERATOR, SANDWICH/ SALAD PREP
58	1	-	MICROWAVE
59	1	-	WORKTABLE
60	1	-	HOT FOOD WELL
61	1	-	HOT FOOD TABLE
62	1	-	REFRIGERATOR, SANDWICH/ SALAD PREP
63	1	-	REFRIGERATOR, SANDWICH/ SALAD PREP
64	1	-	CLEAN DISHTABLE
65	2	-	OVERSHELF
66	1	-	POT RACK
67	1	-	MOBILE WARMER
68	LT	-	UTILITY RACKS
69	1	-	SOILED DISHTABLE
69.1	1	-	DOUBLE SLANT RACK
69.2	1	-	PRE-RINSE UNIT
70	1	X	DISHMACHINE - (BY OTHERS)
70.1	1	X	DRAIN TEMPERING KIT - (BY OTHERS)
71	1	X	CONDENSATE HOOD & SYSTEMS - (BY OTHERS)
72	1	-	3-COMPARTMENT SINK
72.1	1	-	PRE-RINSE W/ FAUCET
72.2	1	-	FAUCET
73	2	-	DISH CABINET/ EXPO COUNTER W/ OVERSHELF
74	1	-	FAUCET
75	9	-	INGREDIENT BINS
76	2	-	DROP DOWN HEAT LAMPS
77	1	-	DROP-IN COLD PANS
78	1	-	DRAWER WARMER
79	LT	X	COOKER/ WARMER
80	LT	-	POS UNITS - (BY OTHERS)
81	2	X	RACK DOLLIES
82	1	X	SODA/ ICE DISPENSER - (BY OTHERS)
83	1	X	COFFEE/ TEA BREWER - (BY OTHERS)
84	1	-	COFFEE GRINDER - (BY OTHERS)
85	1	-	UNDERCOUNTER REFRIGERATOR
100	1	-	BEVERAGE COUNTER
101	1	X	BEVERAGE COUNTER W/ RACK SLIDES
			SODA DISPENSER W/ ICE BIN - (BY OTHERS)





MEZZANINE EQ. PLAN

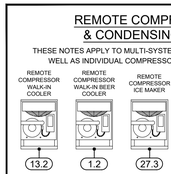
SCALE: 1/4" = 1'-0"

BAR

ITEM NUMBER	QTY	BY VENDOR	DESCRIPTION
B1	4	-	UNDERBAR CORNER DRAINBOARDS
B2	2	-	UNDERBAR COCKTAIL ICE BINS
B2.1	2	-	UNDERBAR SPEEDRAILS
B2.2	2	X	SODA GUNS - (BY OTHERS)
B3	-	-	OPEN #
B4	2	-	UNDERBAR DRYWASTE
B5	1	-	UNDERBAR GLASS RACK CABINET
B6	2	-	UNDERBAR REFRIGERATORS
B7	-	-	OPEN #
B8	1	X	GLASS WASHER (BY OTHERS)
B9	1	-	UNDERBAR DUMP SINK
B10	1	-	UNDERBAR HAND SINK
B11	1	-	UNDERBAR POS STATION
B12	1	-	GLASS FROSTER
B13	2	-	3-TIER SHELF UNIT W/ MATS
B14	LT	X	POS UNITS - (BY OTHERS)
B15	1	-	BEER DISPENSING HEAD

REMOTE COMPRESSORS & CONDENSING UNITS

THESE NOTES APPLY TO MULTI-SYSTEM COMPRESSOR RACKS AS WELL AS INDIVIDUAL COMPRESSORS AND CONDENSORS.



EXACT LOCATION OF COMPRESSORS ARE TO BE DETERMINED BY ARCHITECT. FREE & EASY ACCESS INTO AREA FOR COMPRESSORS MUST BE PROVIDED BY OTHERS, TO ALLOW PLACEMENT OF RACK AS WELL AS MAINTAIN MINIMUM CLEARANCE REQUIREMENTS.

SUFFICIENT AIR CHANGES MUST BE PROVIDED IN THIS AREA TO ALLOW ADEQUATE AIR CIRCULATION FOR WATER COOLED OR AIR COOLED COMPRESSORS.

STRUCTURAL SUPPORT AS WELL AS CURBS, PADS OR REDWOOD RAILS FOR COMPRESSORS, ON ROOF OR INSIDE STRUCTURE, TO BE PROVIDED BY OTHERS.

SEE MANUFACTURER'S SHOP DRAWINGS FOR DETAILED REQUIREMENTS FOR CLEARANCE ACTUAL SIZES, MECHANICAL, PLUMBING & ELECTRICAL REQUIREMENTS. FOR WATER COOLED UNITS, STRICT ADHERENCE TO MANUFACTURERS REQUIREMENTS FOR MIN./MAX. WATER TEMP AND PRESSURE MUST BE MAINTAINED.

ASHRAE CALCULATIONS AND ANY RESULTING REQUIREMENTS FOR COMPRESSOR AREA, PIPING CHASES AND FREON DETECTION SYSTEMS SHALL BE THE RESPONSIBILITY OF OTHERS.

ALL REFRIGERANT PIPING CHASES AND BUILDING PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE BUILDING TRADES AND TO COMPLY WITH ALL LOCAL CODES. EXACT LINE RUNS OF REFRIGERATION PIPING SHALL BE DETERMINED IN COORDINATION WITH THE REFRIGERATION INSTALLER.

ALL ELECTRICAL DISCONNECTS TO BE PROVIDED BY OTHERS.

GENERAL NOTES

1. THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS.
2. DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE APPROPRIATE PARTIES.
3. ALL LOCAL, STATE AND NATIONAL CODES SHALL APPLY.
4. ALL DIMENSIONS ON THESE PLANS ARE BASED ON FINISHED WALL AND FLOOR DIMENSIONS. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL OR INTENDED CONDITIONS IN THE FIELD SHOULD BE REPORTED TO HOCKENBERGS IMMEDIATELY.
5. UNLESS OTHERWISE NOTED, ARCHITECT TO LOCATE; GENERAL CONTRACTOR TO PROVIDE ALL ROOF/BUILDING PENETRATIONS AND CURBS FOR EXHAUST/SUPPLY AIR SYSTEMS AND REMOTE COMPRESSORS.
6. ARCHITECT TO LOCATE ALL REMOTE COMPRESSORS AND CONDENSERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. UNLESS OTHERWISE NOTED ALL DIMENSIONS SHOWN ON THIS PLAN ARE FROM THE FINISHED FLOOR, CEILING OR WALLS TO THE CENTERLINE OF THE ROUGH-INS.
8. HOCKENBERGS DOES NOT EMPLOY A LICENSED ARCHITECT OR ENGINEER. THESE DOCUMENTS PROVIDED BY HOCKENBERGS ARE GUIDELINE DOCUMENTS ONLY AND ARE INTENDED TO BE INCORPORATED INTO THE FINAL CONSTRUCTION DOCUMENTS BY A LICENSED ARCHITECT OR ENGINEER THAT IS EMPLOYED BY THE OWNER. FINAL CODE COMPLIANCE, PLAN SUBMITTAL AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.

PRELIMINARY DRAWING

NOT TO BE USED FOR CONSTRUCTION

TriMark
Foodservice Equipment, Supplies and Design
HOCKENBERGS

10550 Barkley, Suite 200
Overland Park, KS 66212
P 913.945.2490

trimarkusa.com

REVISIONS

DATE	NO.	DESCRIPTION
1/20/21	-	PRELIM. EQ. LAYOUT
3/10/21	-	UPDATED EQ. LAYOUT
3/23/21	-	REV'D BEER COOLER LOC. & COMP. UNITS
5/10/21	3	HAND SINK REV'S PER HEALTH DEPT. REVIEW

RED DOOR GRILL

LEES SUMMIT, MO

Food Service Equipment

PROJECT NUMBER: 10-21004

DATE: 02/DD/2021

SCALE: AS NOTED

DRAWN BY: DRW

APPROVED BY: JL

SHEET TITLE: EQUIPMENT LAYOUT PLAN

SHEET NUMBER: K-1

KITCHEN

ELECTRICAL

ITEM NUMBER	QTY	BY VENDOR	DESCRIPTION	VOLTAGE	PHASE	AMPS	CIRCUIT	J-BOX	DIRECT	C & P	NEMA	LOCATIONS	AFF
1	1	-	WALK-IN BEER COOLER	120	1	-	*15.0*	JB	X	-	-	1	DFA
1.1	1	-	BEER COOLER EVAPORATOR	120	1	1.6	-	JB	X	-	-	1	DFA
1.2	1	-	BEER COOLER REMOTE COMPRESSOR	208	1	7.4	-	JB	X	-	-	1	PLAN
2	LT	-	STORAGE SHELVING	-	-	-	-	-	-	-	-	-	-
2.1	LT	-	KEG RACKS	-	-	-	-	-	-	-	-	-	-
3	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-
4	1	-	COMPRESSOR RACK, 2-TIER	-	-	-	-	-	-	-	-	-	-
5	1	-	MEAT MARINATOR, MOBILE	120	1	5.0	-	-	-	X	6-15P	1	12"
6	LT	X	CO2 - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
7	1	X	GLYCOL PUMP - (BY OTHERS)	120	1	-	"20"	-	-	X	5-20P	1	96"
7.1	1	X	WALL SHELF (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
8	LT	X	BAG-N-BOX - (BY OTHERS)	120	1	-	"20"	-	-	X	5-20P	1	66"
9	2	-	WORKTABLES	-	-	-	-	-	-	-	-	-	-
10	LT	-	WALL GRID SHELVING	-	-	-	-	-	-	-	-	-	-
11	1	-	SLICER	120	1	2.0	-	-	-	X	5-15P	1	48"
12	LT	-	STORAGE SHELVING	-	-	-	-	-	-	-	-	-	-
13	1	-	WALK-IN COOLER	120	1	-	*15.0*	JB	X	-	-	1	SFC.
13.1	2	-	COOLER EVAPORATOR	120	1	1.6	-	JB	X	-	-	2	SFC.
13.2	1	-	COOLER REMOTE COMPRESSOR	208	1	11.4	-	JB	X	-	-	1	PLAN
14	2	-	PAN RACKS	-	-	-	-	-	-	-	-	-	-
15	LT	-	COOLER SHELVING	-	-	-	-	-	-	-	-	-	-
16	1	-	DOUBLE CONVECTION OVEN	120	1	2) X 6.0	-	-	-	X	5-15P	2	24"/ 48"
17	1	X	EXHAUST HOOD & SYSTEMS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
18	1	-	6-BURNER HOT PLATE	-	-	-	-	-	-	-	-	-	-
19	1	-	WORKTABLE	-	-	-	-	-	-	-	-	-	-
20	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-
21	1	-	MIXER	120	1	6.0	-	-	-	X	5-15P	1	48"
21.1	1	-	MIXER STAND, MOBILE	-	-	-	-	-	-	-	-	-	-
22	1	-	PREP TABLE W/ SINKS, FAUCET & CAN OPENER	-	-	-	-	-	-	-	-	-	-
23	2	-	WALL GRID SHELVING	-	-	-	-	-	-	-	-	-	-
24	1	X	HAND SINK - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
24.1	3	X	HAND SINKS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
25	1	-	REACH-IN REFRIGERATOR	120	1	6.0	-	-	-	X	5-15P	1	88"
26	1	-	REACH-IN FREEZER	120	1	10.0	-	-	-	X	5-15P	1	88"
27	1	X	ICE MACHINE - (BY OTHERS)	208	1	15.9		JB	X	-	-	1	72"
27.1	1	X	ICE BIN - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
27.2	1	X	WATER FILTER (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
27.3	1	X	REMOTE COMPRESSOR (BY OTHERS)	VERIFY W/ VENDOR									
28	1	-	FLOOR TROUGH	-	-	-	-	-	-	-	-	-	-
29	1	-	HIGH SPEED VENTLESS OVEN	208	1	6.2 KW	-	-	-	X	6-30P	1	48"
30	1	-	UNDERCOUNTER REFRIGERATOR	120	1	3.2	-	-	-	X	5-15P	1	16"
30.1	-	-	DOUBLE OVERSHELF	-	-	-	-	-	-	-	-	-	-
31	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-
32	1	X	EXHAUST HOOD & SYSTEMS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-
33	1	-	REFRIGERATED EQUIPMENT STAND	120	1	4.8	-	-	-	X	5-15P	1	16"
34	1	-	HOT PLATE, 6-BURNER	-	-	-	-	-	-	-	-	-	-
35	-	-	OVERSHELF	-	-	-	-	-	-	-	-	-	-
36	1	-	GRIDDLE	-	-	-	-	-	-	-	-	-	-
37	1	-	CHEESE MELTER	-	-	-	-	-	-	-	-	-	-
38	1	-	FRYERS, BATTERY OF 3	120	1	12.0	-	-	-	X	5-15P	3	16"
39	1	-	HEAT LAMP	120	1	500 w	-	-	-	X	5-15P	1	48"
40	1	-	WORKTABLE	-	-	-	-	-	-	-	-	-	-
41	2	-	WAFFLE BAKERS	120	1	1300 w	-	-	-	X	5-15P	2	48"
42	1	-	UNDERCOUNTER FREEZER	120	1	2.6	-	-	-	X	5-15P	1	16"
43	1	-	TOASTER	120	1	15.0	-	-	-	X	5-15P	1	48"
44	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-
45	1	-	LANDING TABLE	-	-	-	-	-	-	-	-	-	-
46	1	-	WORKTABLE	-	-	-	-	-	-	-	-	-	-
47	2	X	PRESSURE FRYERS	208	3	38.0	-	-	-	X	5-15P	2	16"
48	1	-	BREADING STATION	-	-	-	-	-	-	-	-	-	-
49	1	-	REACH-IN REFRIGERATOR	120	1	6.0	-	-	-	X	5-15P	1	88"

PLUMBING

ITEM NUMBER	SUPPLY FILTERED	SUPPLY COLD "A"	SUPPLY HOT "B"	SUPPLY AFF	DRAINS LOCATIONS	DRAINS DIRECT "C"	DRAINS INDIRECT "C"	DRAINS AFF	GAS SIZE	GAS BTU "D"	GAS LOCATIONS	GAS AFF
1	-	-	-	-	-	-	-	-	-	-	-	-
1.1	-	-	-	-	-	-	FS	-	-	-	-	-
1.2	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
2.1	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-
7.1	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-
13.1	-	-	-	-	-	-	FS	-	-	-	-	-
13.2	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	3/4"	100,000	1	24"
17	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	3/4"	143,000	1	24"
19	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
21.1	-	-	-	-	-	-	-	-	-	-	-	-
22	-	1/2"	1/2"	14"	-	-	FS	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	-	1/2"	1/2"	16"	1	2"	-	18"	-	-	-	-
24.1	-	1/2"	1/2"	16"	3	2"	-	18"	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-
27	3/4"	-	-	-	1	-	FS	-	-	-	-	-
27.1	-	-	-	-	-	-	FS	-	-	-	-	-
27.2	-	3/4"	-	72"	1	-	-	-	-	-	-	-
27.3	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	3"	-	SU	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-
30.1	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	3/4"	180,000	1	24"
35	-	-	-	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	-	3/4"	100,000	1	24"
37	-	-	-	-	-	-	-	-	3/4"	40,000	1	76"
38	-	-	-	-	-	-	-	-	1"	255,000	1	24"
39	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
47	-	-	-	-	-	-	-	-	3/4"	80,500	1	24"
48	-	-	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-

ELECTRICAL NOTES	PLUMBING NOTES
FOR LIGHTS & HEATERS - REFER TO MFG'S SHOP DWGS. FOR DETAILS	-
-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK/ REFER TO MFG'S SHOP DWGS FOR DETAILS
EC TO PROVIDE DISCONNECT IF NECESSARY - REFER TO MFG'S SHOP DWGS. FOR DETAILS	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	VERIFY ROUGH-IN REQUIREMENTS W/ EQ.
VERIFY ALL ROUGH-IN REQUIREMENTS	-
-	-
-	-
-	-
-	-
FOR LIGHTS & HEATERS - REFER TO MFG'S SHOP DWGS. FOR DETAILS	-
-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK/ REFER TO MFG'S SHOP DWGS FOR DETAILS
EC TO PROVIDE DISCONNECT IF NECESSARY - REFER TO MFG'S SHOP DWGS. FOR DETAILS	-
-	-
-	-
-	KEC TO PROVIDE QUICK DISCONNECT
REFER TO MECH / ELEC DRAWINGS; VERIFY LOADS.	VERIFY ALL ROUGH-IN REQIREMENTS
-	KEC TO PROVIDE QUICK DISCONNECT
-	-
-	-
-	-
-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK
-	-
-	-
-	-
EC TO CONNECT TO REMOTE CONDENSER (ITEM 27.3) ON ROOF.	PC TO EXTEND INDIVIDUAL INDIRECT WASTES TO FLOOR SINK
-	PC TO EXTEND INDIVIDUAL INDIRECT WASTES TO FLOOR SINK
-	PC TO EXTEND FILTERED WATER TO ICE MACHINE
-	-
-	-
-	KEC TO PROVIDE QUICK DISCONNECT
-	-
-	-
REFER TO MECH / ELEC DRAWINGS; VERIFY LOADS.	-
VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQIREMENTS
-	-
-	KEC TO PROVIDE QUICK DISCONNECT
-	KEC TO PROVIDE QUICK DISCONNECT
-	DIRECT CONNECT
VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQIREMENTS
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
REFER TO MECH / ELEC DRAWINGS; VERIFY LOADS.	-
VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQIREMENTS
-	-
-	-

TriMark
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REVISIONS

DATE	NO.	DESCRIPTION
1/20/21	-	PRELIM. EQ. LAYOUT
3/10/21	-	UPDATED EQ. LAYOUT
3/23/21	-	REV'D BEER COOLER LOC. & COMP. UNITS
5/10/21	3	HAND SINK REV'S PER HEALTH DEPT. REVIEW

RED DOOR GRILL

LEES SUMMIT, MO

Food Service Equipment

PROJECT NUMBER: 10-21004

DATE: 02/DD/2021

SCALE: AS NOTED

DRAWN BY: DRW | APPROVED BY: JL

SHEET TITLE: SCHEDULE

SHEET NUMBER: K-1.1

KITCHEN

ELECTRICAL | PLUMBING (SUPPLY | DRAINS | GAS)

ITEM NUMBER	QTY	BY VEND/OR	DESCRIPTION	VOLTAGE	PHASE	AMPS	CIRCUIT	J-BOX	DIRECT	C & P	NEMA	LOCATIONS	AFF	FILTERED	COLD "A"	HOT "B"	AFF	LOCATIONS	DIRECT "C"	INDIRECT "C"	AFF	SIZE	BTU "D"	LOCATIONS	AFF	ELECTRICAL NOTES	PLUMBING NOTES	ITEM NUMBER
50	1	-	WORKTABLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
51	1	-	BROILER - (WOOD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
52	1	X	EXHAUST HOOD, FAN & MUA/ FIRE SYSTEM - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	52
53	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
54	1	-	DOUGH SHEETER	120	1	370 W	-	-	-	X	5-15P	1	48"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
55	1	-	TOASTER - (CONVEYOR)	208	1	13.4	-	-	-	X	6-20P	1	48"	-	-	-	-	-	-	-	-	-	-	-	-	E.C. TO PROVIDE CORD & PLUG; KEC TO PROVIDE SS WALL FLASHING.	-	55
56	1	-	DRAWER WARMER	120	1	7.5	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56
57	1	-	REFRIGERATOR, SANDWICH/ SALAD PREP	120	1	4.0	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
58	1	-	MICROWAVE	120	1	13.4	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58
59	1	-	WORKTABLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59
60	1	-	HOT FOOD WELL	120	1	10.0	-	-	-	X	5-15P	1	48"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
61	1	-	HOT FOOD TABLE	208	1	7.2	-	-	-	X	6-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
62	1	-	REFRIGERATOR, SANDWICH/ SALAD PREP	120	1	6.0	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62
63	1	-	REFRIGERATOR, SANDWICH/ SALAD PREP	120	1	6.0	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63
64	1	-	CLEAN DISHTABLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64
65	2	-	OVERSHELF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
66	1	-	POT RACK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66
67	1	-	MOBILE WARMER	120	1	17.4	-	-	-	X	5-15P	1	12"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67
68	LT	-	UTILITY RACKS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68
69	1	-	SOILED DISHTABLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIVIDUAL INDIRECT WASTES TO FLOOR SINK	69
69.1	1	-	DOUBLE SLANT RACK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.1
69.2	1	-	PRE-RINSE UNIT	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	24"	1	-	-	-	-	-	-	-	-	-	69.2
70	1	X	DISHMACHINE - (BY OTHERS)	208	3	48.75	-	JB	X	-	-	1	66"	-	-	3/4'	-	-	-	FS	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	70
70.1	1	X	DRAIN TEMPERING KIT - (BY OTHERS)	120	1	VERIFY	-	JB	X	-	-	1	8"	-	-	1/2"	-	-	-	-	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	70.1
71	1	X	CONDENSATE HOOD & SYSTEMS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	71
72	1	-	3-COMPARTMENT SINK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	72
72.1	1	-	PRE-RINSE W/ FAUCET	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	16"	1	-	-	-	-	-	-	-	-	-	72.1
72.2	1	-	FAUCET	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	16"	1	-	-	-	-	-	-	-	-	-	72.2
73	2	-	DISH CABINET/ EXPO COUNTER W/ OVERSHELF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73
72.2	1	-	FAUCET	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	16"	1	-	-	-	-	-	-	-	-	-	72.2
74	3	-	INGREDIENT BINS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74
75	9	-	DROP DOWN HEAT LAMPS	120	1	375 W	-	JB	X	-	-	9		-	-	-	-	-	-	-	-	-	-	-	-	EXTEND TO WALL SWITCH	-	75
76	2	-	DROP-IN COLD PANS	120	1	8.0	-	-	-	X	5-15P	2	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	76
77	1	-	DRAWER WARMER	120	1	3.8	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77
78	1	-	COOKER/ WARMER	120	1	8.3	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78
79	LT	X	POS UNITS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
80	LT	-	RACK DOLLIES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80
81	2	X	SODA/ ICE DISPENSER - (BY OTHERS)	120	1	-	*15.0*	-	-	X	5-20P	1	16"	-	1/2"	-	16"	1	-	FS	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	81
82	1	X	COFFEE/ TEA BREWER - (BY OTHERS)	208	1	-	*20.0*	-	-	X	5-20P	1	42"	-	1/2"	-	48"	1	-	-	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	82
83	1	X	COFFEE GRINDER - (BY OTHERS)	120	1	-	*15.0*	-	-	X	5-20P	1	42"	-	-	-	-	-	-	-	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	83
84	1	-	UNDERCOUNTER REFRIGERATOR	120	1	3.2	-	-	-	X	5-15P	1	16"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
85	1	-	BEVERAGE COUNTER	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	16"	1	1-1/2"	FS	16"	-	-	-	-	-	-	85
100	1	-	BEVERAGE COUNTER W/ RACK SLIDES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
101	1	X	SODA DISPENSER W/ ICE BIN - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	FS	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	VERIFY ALL ROUGH-IN REQUIREMENTS	101

BAR

ELECTRICAL | PLUMBING (SUPPLY | DRAINS | GAS)

ITEM NUMBER	QTY	BY VEND/OR	DESCRIPTION	VOLTAGE	PHASE	AMPS	CIRCUIT	J-BOX	DIRECT	C & P	NEMA	LOCATIONS	AFF	FILTERED	COLD "A"	HOT "B"	AFF	LOCATIONS	DIRECT "C"	INDIRECT "C"	AFF	SIZE	BTU "D"	LOCATIONS	AFF	ELECTRICAL NOTES	PLUMBING NOTES	ITEM NUMBER
B1	4	-	UNDERBAR CORNER DRAINBOARDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	B1
B2	2	-	UNDERBAR COCKTAIL ICE BINS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	B2
B2.1	2	-	UNDERBAR SPEEDRAILS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B2.1
B2.2	2	X	SODA GUNS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B2.2
B3	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	STUB-UP IN BAR DYE-WALL	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK / STUB-UP WATERS IN BAR DYE-WALL	B3
B4	2	-	UNDERBAR DRYWASTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B4
B5	1	-	UNDERBAR GLASS RACK CABINET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	-	B5
B6	2	-	UNDERBAR REFRIGERATORS	120	1	2.75	-	-	-	X	5-15P	1	SU	-	-	-	-	-	-	-	-	-	-	-	-	STUB-UP IN BAR DYE-WALL	--	B6
B7	-	-	OPEN #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B7
B8	1	X	GLASS WASHER (BY OTHERS)	120	1	16.0	*20.0*	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	VERIFY ALL ROUGH-IN REQUIREMENTS	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	B8
B9	1	-	UNDERBAR DUMP SINK	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	SU	1	1-1/2"	SU	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK / STUB-UP WATERS IN BAR DYE-WALL	B9
B10	1	-	UNDERBAR HAND SINK	-	-	-	-	-	-	-	-	-	-	-	1/2"	1/2"	SU	1	1-1/2"	SU	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK / STUB-UP WATERS IN BAR DYE-WALL	B10
B11	1	-	UNDERBAR POS STATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	B11
B12	1	-	GLASS FROSTER	120	1	5.0	-	-	-	X	5-20P	-	SU	-	-	-	-	-	-	-	-	-	-	-	-	STUB-UP IN BAR DYE-WALL	-	B12
B13	2	-	3-TIER SHELF UNIT W/ MATS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	B13
B14	LT	X	POS UNITS - (BY OTHERS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B14
B15	1	-	BEER DISPENSING HEAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B15
B15.1	1	-	DRIP PAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FS	-	-	-	-	-	-	PC TO EXTEND INDIRECT WASTES TO FLOOR SINK	B15.1

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DATE	NO.	DESCRIPTION
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RED DOOR GRILL

LEES SUMMIT, MO

Food Service Equipment

PROJECT NUMBER: 10-21004
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DRAWN BY: DRW
APPROVED BY: JL

SHEET TITLE: SCHEDULE

SHEET NUMBER: K-1.2

THIS DOCUMENT WAS ORGINALLY PRINTED ON A 24" x 36" SIZE SHEET

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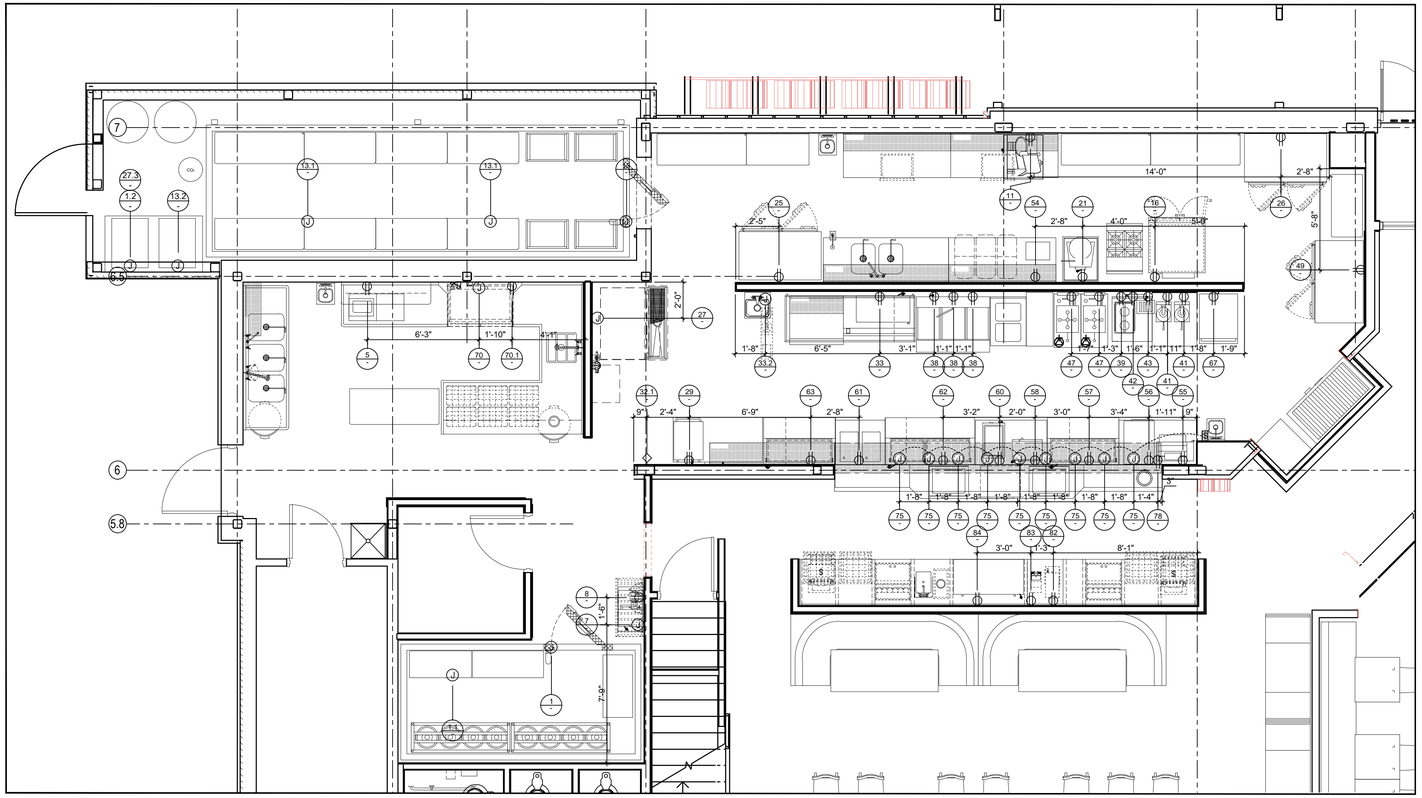
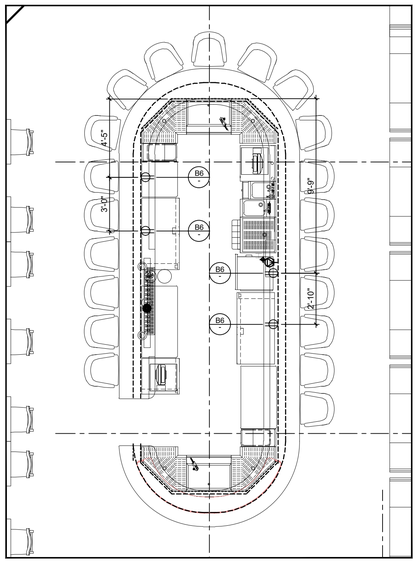


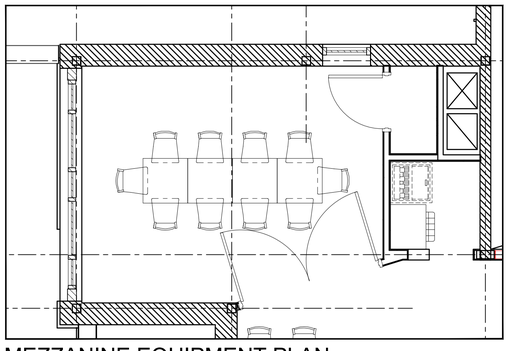
KITCHEN EQUIPMENT PLAN

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



BAR EQUIPMENT PLAN

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



MEZZANINE EQUIPMENT PLAN

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

REMOTE COMPRESSORS & CONDENSING UNITS

THESE NOTES APPLY TO MULTI-SYSTEM COMPRESSOR RACKS AS WELL AS INDIVIDUAL COMPRESSORS AND CONDENSORS.

REMOTE COMPRESSOR WALK-IN COOLER — J 13.2

REMOTE COMPRESSOR WALK-IN BEER COOLER — J 1.2

REMOTE COMPRESSOR ICE MAKER — J 27.3

EXACT LOCATION OF COMPRESSORS ARE TO BE DETERMINED BY ARCHITECT. FREE & EASY ACCESS INTO AREA FOR COMPRESSORS MUST BE PROVIDED BY OTHERS, TO ALLOW PLACEMENT OF RACK AS WELL AS MAINTAIN MINIMUM CLEARANCE REQUIREMENTS.

SUFFICIENT AIR CHANGES MUST BE PROVIDED IN THIS AREA TO ALLOW ADEQUATE AIR CIRCULATION FOR WATER COOLED OR AIR COOLED COMPRESSORS.

STRUCTURAL SUPPORT AS WELL AS CURBS, PADS OR REDWOOD RAILS FOR COMPRESSORS, ON ROOF OR INSIDE STRUCTURE, TO BE PROVIDED BY OTHERS.

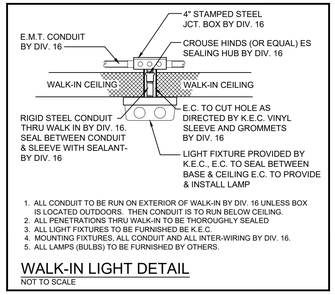
SEE MANUFACTURER'S SHOP DRAWINGS FOR DETAILED REQUIREMENTS FOR CLEARANCE ACTUAL SIZES, MECHANICAL, PLUMBING & ELECTRICAL REQUIREMENTS. FOR WATER COOLED UNITS, STRICT ADHERENCE TO MANUFACTURERS REQUIREMENTS FOR MIN./MAX. WATER TEMP AND PRESSURE MUST BE MAINTAINED.

ASHRAE CALCULATIONS AND ANY RESULTING REQUIREMENTS FOR COMPRESSOR AREA, PIPING CHASES AND FREON DETECTION SYSTEMS SHALL BE THE RESPONSIBILITY OF OTHERS.

ALL REFRIGERANT PIPING CHASES AND BUILDING PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE BUILDING TRADES AND TO COMPLY WITH ALL LOCAL CODES. EXACT LINE RUNS OF REFRIGERATION PIPING SHALL BE DETERMINED IN COORDINATION WITH THE REFRIGERATION INSTALLER.

ALL ELECTRICAL DISCONNECTS TO BE PROVIDED BY OTHERS.

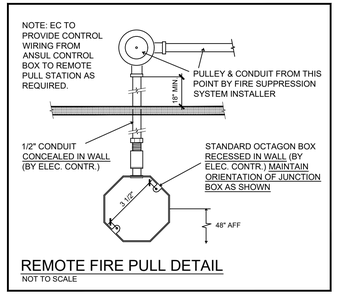
IMPORTANT ELECTRICAL NOTE: FOR EACH FREEZER COMPRESSOR, ELECTRICIAN TO PROVIDE (1) 3/4" DIAMETER CONDUIT W/(5) #10 WIRES & INTERCONNECT BETWEEN COMPRESSOR, EVAPORATOR COIL & TIME CLOCK. VERIFY ALL DETAILS WITH MANUFACTURERS SHOP DRAWINGS.



1. ALL CONDUIT TO BE RUN ON EXTERIOR OF WALK-IN BY DIV. 16 UNLESS BOX IS LOCATED OUTDOORS. THEN CONDUIT IS TO RUN BELOW CEILING.
2. ALL PENETRATIONS THRU WALK-IN TO BE THOROUGHLY SEALED
3. ALL LIGHT FIXTURES TO BE FURNISHED BE K.E.C.
4. MOUNTING FIXTURES, ALL CONDUIT AND ALL INTER-WIRING BY DIV. 16.
5. ALL LAMPS (BULBS) TO BE FURNISHED BY OTHERS.

WALK-IN LIGHT DETAIL

NOT TO SCALE



REMOTE FIRE PULL DETAIL

NOT TO SCALE

ELECTRICAL NOTES

1. THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS.
2. DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE APPROPRIATE PARTIES.
3. ALL LOCAL, STATE AND NATIONAL CODES SHALL APPLY.
4. THESE UTILITY REQUIREMENT DRAWINGS INDICATE THE UTILITY AND LOCATION OF REQUIREMENTS BASED ON THE EQUIPMENT SPECIFIED.
5. ALL EQUIPMENT SHALL BE WIRED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND/OR SHOP DRAWINGS.
6. UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHOWN ON THIS PLAN ARE FROM THE FINISHED FLOOR, CEILING, WALLS OR COLUMN CENTERLINES TO THE CENTERLINE OF THE ROUGH-INS.
7. ALL ELECTRICAL CONNECTIONS ARE TO BE EXTENDED AND INTERCONNECTED TO CONNECTION POINTS ON THE EQUIPMENT BY OTHERS. UNLESS SPECIFIED, ALL HARDWARE REQUIRED FOR THESE CONNECTIONS SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.
8. SURFACE MOUNTED WIRE AND CONDUIT WILL NOT BE ALLOWED. ALL ELECTRICAL LINES AND CONDUIT SHALL BE EXTENDED THROUGH AND OUT OF BUILDING WALLS WHERE POSSIBLE. WHERE SURFACE MOUNTED CONDUIT IS UNAVOIDABLE, IT MUST BE COORDINATED WITH HOCKENBERGS.
9. ROUGH-INS OUT OF FLOOR SHOULD BE STUBBED UP 4" ABOVE FINISHED FLOOR AND BROUGHT TO THE REQUIRED HEIGHT AFTER EQUIPMENT IS SET IN PLACE.
10. ALL 120 VOLT UTILITY OUTLETS TO BE G.F.C.I. OUTLETS.
11. ALL NECESSARY ELECTRICAL DISCONNECTS, SHUNT TRIP BREAKERS AND STARTERS ARE TO BE FURNISHED AND INSTALLED BY OTHERS, UNLESS PROVIDED AS A STANDARD OR SPECIFIED EQUIPMENT COMPONENT OF THE EQUIPMENT MANUFACTURER. THIS SHALL INCLUDE ELECTRICAL DISCONNECTS FOR ALL REMOTE COMPRESSORS, BOOSTER HEATERS AND OTHER ITEMS REQUIRED BY CODE.
12. ALL ELECTRICAL ITEMS SUPPLIED UNDER COOKING LINE EXHAUST HOOD ARE TO SHUT DOWN WITH SHUNT TRIP BREAKERS (BY OTHERS) CONNECTED TO FIRE SYSTEM. ELECTRICAL ENGINEER TO CONFIRM COMPLIANCE TO ALL CODES.
13. ALL OUTLETS, JUNCTION BOXES, DISCONNECTS, ETC. SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH THE PERFORMANCE, FUNCTION, OR PLACEMENT OF THE EQUIPMENT.
14. STARTERS, RELAYS, HEATERS AND SWITCHES REQUIRED FOR EXHAUST AND SUPPLY FANS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
15. DISHMACHINES:
    A. ELECTRICAL CONTRACTOR SHALL INTERCONNECT DISHMACHINE WITH DISHMACHINE EXHAUST FAN. INTERCONNECTION SHALL LINK OPERATION OF EXHAUST FAN AND DISHMACHINE SO THAT BOTH UNITS RUN SIMULTANEOUSLY AT ALL TIMES.
    B. ELECTRICAL CONTRACTOR SHALL INTERCONNECT TABLE LIMIT SWITCH AT END OF CLEAN DISHTABLE WITH CONVEYOR TYPE DISHMACHINES. LIMIT SWITCH SHALL TERMINATE DISHMACHINE OPERATION WHEN DEPRESSED.
16. WALK-IN COOLER/FREEZER BOXES & REMOTE COMPRESSORS:
    A. INTERCONNECT TO BLOWER COIL IN FREEZER.
    B. INTERCONNECT BETWEEN TIMER & CONTACTOR.
    C. INTERCONNECT BETWEEN TIMER & PRESSURE CONTROL SOLENOID.
    D. INTERCONNECT BETWEEN CONTACTOR AND COMPRESSOR FAN.
    E. INTERCONNECT BETWEEN TERMINAL AND CONTACTOR TO BLOWER COIL IN FREEZERS.
    F. CONNECT DRAIN LINE HEATER TO RECEPTACLE IN FREEZER.
    G. CONNECT PAN HEATER TO TERMINAL STRIP IN FREEZERS.
    H. CONNECT DOOR HEATER TO TERMINAL STRIP IN FREEZERS.
17. ALL ELECTRICAL CONDUIT TO BE RUN ON TOP (EXTERIOR) OF WALK-IN COOLER/FREEZER BOX WHERE POSSIBLE.
18. UNLESS PROVIDED BY THE MANUFACTURER, ALL LIGHT BULBS FOR FOODSERVICE EQUIPMENT TO BE PROVIDED BY OTHERS.

ELECTRICAL SYMBOLS

ITEM NUMBER / CONNECTION NUMBER	ELECTRICAL ROUGH-IN NOTE (SEE SCHEDULE)
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE
	HIGH VOLTAGE RECEPTACLE
J	JUNCTION BOX
DC	DROP CORD
	FIRE PULL
	WALL SWITCH
	TELEPHONE
	DATA
	USB RECEPTACLE
	ELECTRICAL INTERCONNECTION

PRELIMINARY DRAWING

NOT TO BE USED FOR CONSTRUCTION

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/02/2021

TriMark
Foodservice Equipment, Supplies and Design
HOCKENBERGS
10550 Barkley, Suite 200
Overland Park, KS 66212
P 913.945.2490
trimarkusa.com

REVISIONS

DATE	NO.	DESCRIPTION
1/20/21	-	PRELIM. EQ. LAYOUT
3/10/21	-	UPDATED EQ. LAYOUT
3/23/21	-	REV'D BEER COOLER LOC. & COMP. UNITS
5/10/21	3	HAND SINK REV'S PER HEALTH DEPT. REVIEW

RED DOOR GRILL

LEES SUMMIT, MO

Food Service Equipment

PROJECT NUMBER: 10-21004

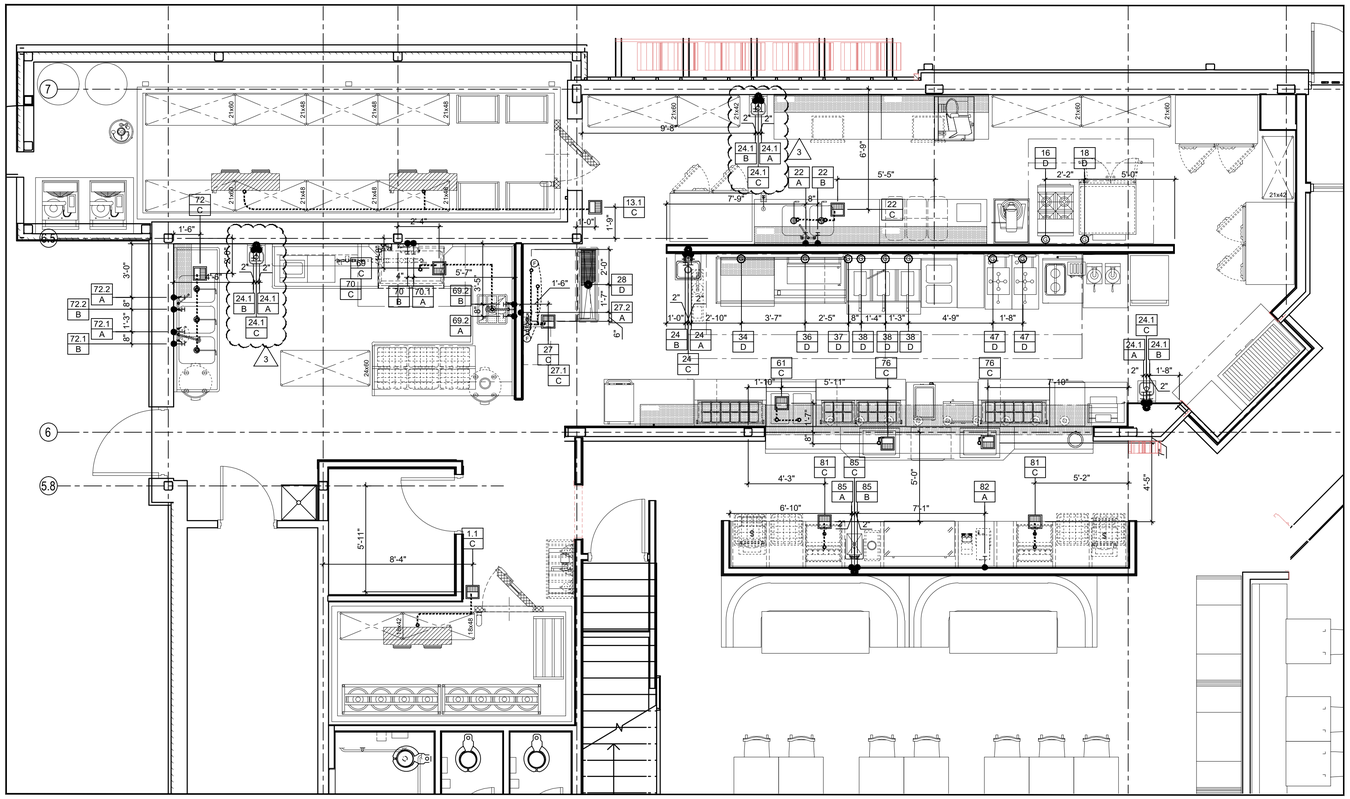
DATE: 02/DD/2021

SCALE: AS NOTED

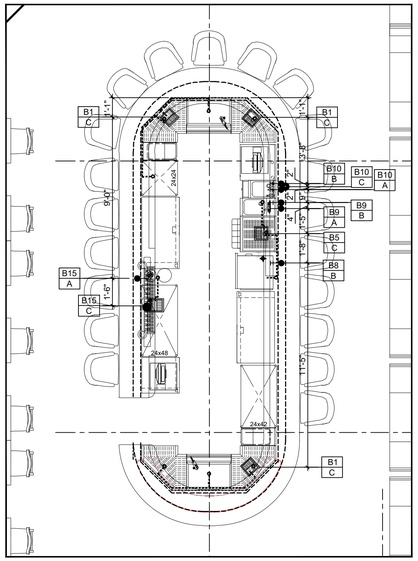
DRAWN BY: DRW | APPROVED BY: JL

SHEET TITLE: ELECTRICAL REQUIREMENTS PLAN

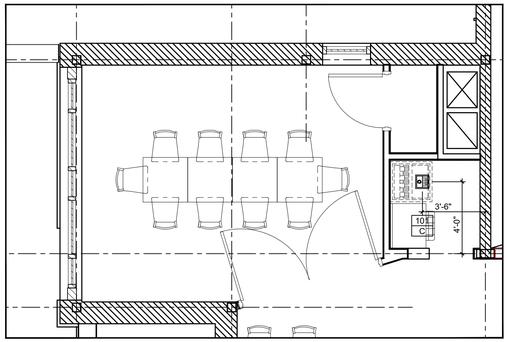
SHEET NUMBER: K-2



KITCHEN EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



BAR EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



MEZZANINE EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

REMOTE COMPRESSORS & CONDENSING UNITS

THESE NOTES APPLY TO MULTI-SYSTEM COMPRESSOR RACKS AS WELL AS INDIVIDUAL COMPRESSORS AND CONDENSORS.

REMOTE COMPRESSOR WALK-IN COOLER

REMOTE COMPRESSOR WALK-IN BEER COOLER

REMOTE COMPRESSOR ICE MAKER

EXACT LOCATION OF COMPRESSORS ARE TO BE DETERMINED BY ARCHITECT. FREE & EASY ACCESS INTO AREA FOR COMPRESSORS MUST BE PROVIDED BY OTHERS, TO ALLOW PLACEMENT OF RACK AS WELL AS MAINTAIN MINIMUM CLEARANCE REQUIREMENTS.

SUFFICIENT AIR CHANGES MUST BE PROVIDED IN THIS AREA TO ALLOW ADEQUATE AIR CIRCULATION FOR WATER COOLED OR AIR COOLED COMPRESSORS.

STRUCTURAL SUPPORT AS WELL AS CURBS, PADS OR REDWOOD RAILS FOR COMPRESSORS, ON ROOF OR INSIDE STRUCTURE, TO BE PROVIDED BY OTHERS.

SEE MANUFACTURER'S SHOP DRAWINGS FOR DETAILED REQUIREMENTS FOR CLEARANCE ACTUAL SIZES, MECHANICAL, PLUMBING & ELECTRICAL REQUIREMENTS. FOR WATER COOLED UNITS, STRICT ADHERENCE TO MANUFACTURERS REQUIREMENTS FOR MIN./MAX. WATER TEMP AND PRESSURE MUST BE MAINTAINED.

ASHRAE CALCULATIONS AND ANY RESULTING REQUIREMENTS FOR COMPRESSOR AREA, PIPING CHASES AND FREON DETECTION SYSTEMS SHALL BE THE RESPONSIBILITY OF OTHERS.

ALL REFRIGERANT PIPING CHASES AND BUILDING PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE BUILDING TRADES AND TO COMPLY WITH ALL LOCAL CODES. EXACT LINE RUNS OF REFRIGERATION PIPING SHALL BE DETERMINED IN COORDINATION WITH THE REFRIGERATION INSTALLER.

ALL ELECTRICAL DISCONNECTS TO BE PROVIDED BY OTHERS.

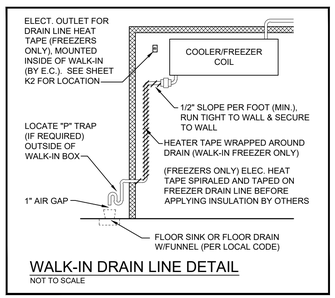
PLUMBING NOTE:
VERIFY ALL DETAILS WITH MANUFACTURERS LATEST SHOP DRAWINGS.

PLUMBING NOTES

1. THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS.
2. DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE APPROPRIATE PARTIES.
3. ALL LOCAL, STATE AND NATIONAL CODES SHALL APPLY.
4. THESE UTILITY REQUIREMENT DRAWINGS INDICATE THE UTILITY AND LOCATION OF REQUIREMENTS BASED ON THE EQUIPMENT SPECIFIED.
5. ALL EQUIPMENT SHALL BE PLUMBED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND/OR SHOP DRAWINGS.
6. UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHOWN ON THIS PLAN ARE FROM THE FINISHED FLOOR, CEILING, WALLS OR COLUMN CENTERLINES TO THE CENTERLINE OF THE ROUGH-INS.
7. ALL FAUCETS, VALVES,DRAINS, ETC. SUPPLIED BY K.E.C. TO BE MOUNTED/INSTALLED BY P.C. ALL PLUMBING CONNECTIONS SHALL BE EXTENDED AND INTERCONNECTED TO CONNECTION POINTS ON THE EQUIPMENT BY P.C. UNLESS SPECIFIED, ALL HARDWARE REQUIRED FOR THESE CONNECTIONS SHALL BE SUPPLIED BY THE PLUMBING CONTRACTOR.
8. SURFACE MOUNTED PIPING WILL NOT BE ALLOWED. ALL PIPING SHALL BE EXTENDED THROUGH AND OUT OF BUILDING WALLS WHERE POSSIBLE. WHERE SURFACE MOUNTED PLUMBING IS UNAVOIDABLE, IT MUST BE COORDINATED WITH HOCKENBERGS.
9. ROUGH-INS OUT OF FLOOR SHOULD BE STUBBED UP 4" ABOVE FINISHED FLOOR AND BROUGHT TO THE REQUIRED HEIGHT AFTER EQUIPMENT IS SET IN PLACE.
10. ONLY COMPONENTS SUPPLIED STANDARD BY THE MANUFACTURER ARE INCLUDED. ALL HARDWARE REQUIRED FOR CONNECTIONS SHALL BE SUPPLIED BY THE PLUMBING CONTRACTOR. SUCH COMPONENTS INCLUDE BUT ARE NOT LIMITED TO, SHUT-OFFS, PRESSURE REGULATORS, VACUUM BREAKERS, P-TRAPS, BACKFLOW PREVENTERS, ETC.
11. PLUMBING CONTRACTOR TO VERIFY THAT ALL APPLIANCES ARE SUPPLIED WITH APPROPRIATE GAS PRESSURE AND THAT ANY VARIANCES IN GAS PRESSURE BE CLEARLY IDENTIFIED AND BROUGHT TO THE IMMEDIATE ATTENTION OF HOCKENBERGS.
12. ALL INDIRECT WASTE AND CONDENSATE DRAIN LINES SHALL BE EXTENDED FROM EQUIPMENT FITTINGS TO APPROPRIATE DRAINS AS CODES REQUIRE, BY OTHERS.
13. UNLESS OTHERWISE SPECIFIED, HOT WATER SUPPLIED TO BOOSTER HEATER SHALL BE A MINIMUM TEMPERATURE OF 140° F.
14. PLUMBING CONTRACTOR TO VERIFY WATER TEMPERATURE REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. ANY DISCREPANCY BETWEEN MANUFACTURER'S REQUIREMENTS AND TEMPERATURES PROVIDED SHALL BE CLEARLY IDENTIFIED AND BROUGHT TO THE IMMEDIATE ATTENTION OF HOCKENBERGS.
15. PLUMBING CONTRACTOR TO PROVIDE INSULATED HOT WATER CONNECTIONS BETWEEN BOOSTER HEATER AND DISHMACHINE.
16. UNLESS OTHERWISE SPECIFIED BY CODE, ALL DRAIN LINES FOR DISPOSERS SHALL BY-PASS GREASE INTERCEPTORS.
17. NO GENERAL PURPOSE FLOOR DRAINS ARE SHOWN ON THESE PLANS. THE SPECIFICATION OF THOSE DRAINS, AS WELL AS THE DESIGN FOR REQUIRED SLOPES IN THE FLOOR TO THOSE DRAINS, SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND/OR ENGINEERS.

PLUMBING SYMBOLS

1 / A	ITEM NUMBER / CONNECTION NUMBER — PLUMBING ROUGH-IN NOTE (SEE SCHEDULE)
	COLD WATER CONNECTION
	HOT WATER CONNECTION
	HOT WATER CONNECTION - 140° MINIMUM
	FLOOR SINK
	FLOOR SINK-HALF COVER
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FILTERED COLD WATER
	INDIRECT DRAIN
	DIRECT DRAIN
	GAS



WALK-IN DRAIN LINE DETAIL
NOT TO SCALE

PRELIMINARY DRAWING
NOT TO BE USED FOR CONSTRUCTION

TriMark Foodservice Equipment, Supplies and Design
HOCKENBERGS
10550 Barkley, Suite 200
Overland Park, KS 66212
P 913.945.2490
trimarkusa.com

REVISIONS

DATE	NO.	DESCRIPTION
1/20/21	-	PRELIM. EQ. LAYOUT
3/10/21	-	UPDATED EQ. LAYOUT
3/23/21	-	REV'D BEER COOLER LOC. & COMP. UNITS
5/10/21	3	HAND SINK REV'S PER HEALTH DEPT. REVIEW

RED DOOR GRILL
LEES SUMMIT, MO
Food Service Equipment

PROJECT NUMBER:	10-21004
DATE:	02/DD/2021
SCALE:	AS NOTED
DRAWN BY:	DRW
APPROVED BY:	JL

SHEET TITLE:
PLUMBING REQUIREMENTS PLAN

SHEET NUMBER:
K-3

THIS DOCUMENT WAS ORGINALLY PRINTED ON A 24" x 36" SIZE SHEET

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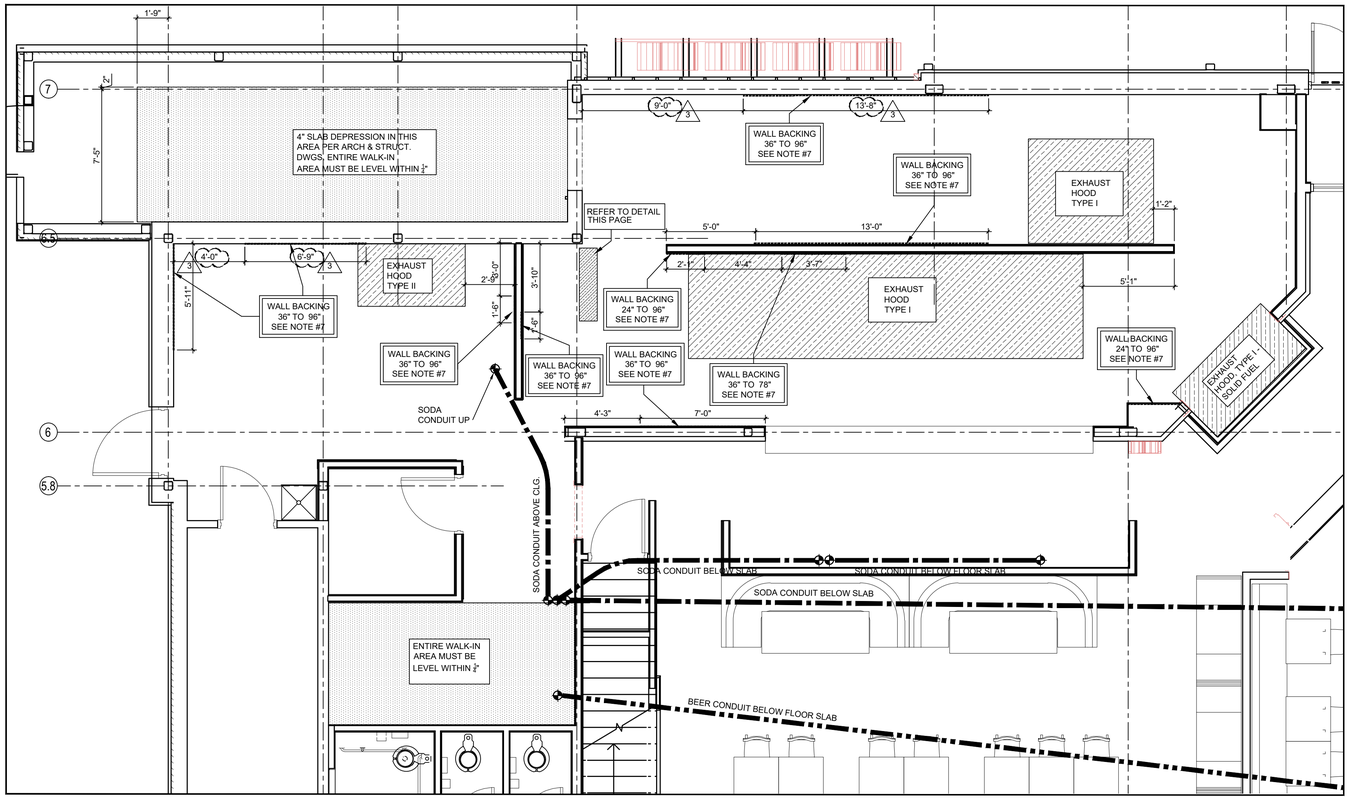
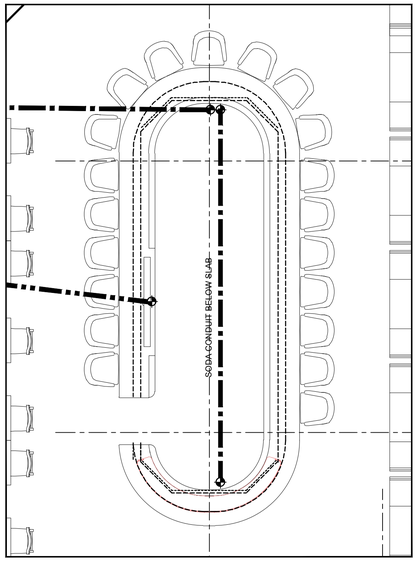


KITCHEN EQUIPMENT PLAN

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



BAR EQUIPMENT PLAN

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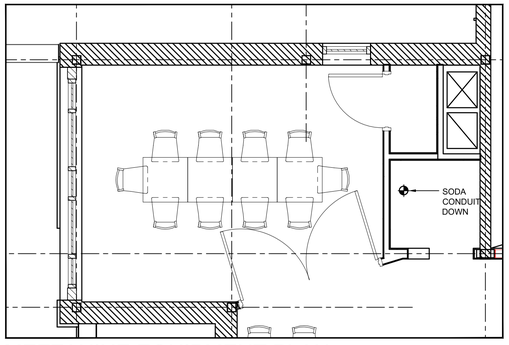

MEZZANINE EQUIPMENT PLAN

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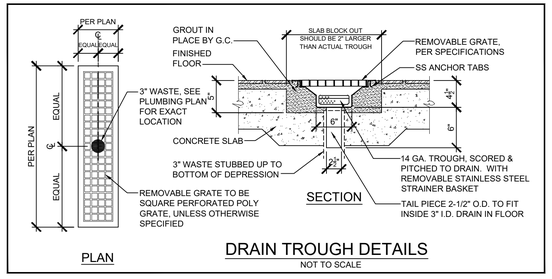


DRAIN TROUGH DETAILS

NOT TO SCALE

NOTES:

CONDUIT AND BUILDING PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE BUILDING TRADES AND TO COMPLY WITH ALL LOCAL CODES.

EXACT LINE RUNS SHALL BE DETERMINED IN COORDINATION WITH THE BEVERAGE SYSTEM INSTALLER. LINE RUN SHOWN ON PLAN INDICATES DESIRED CONNECTION AND NOT THE ACTUAL LINE RUN.

PROVIDE 6" (MIN.) P.V.C. CONDUIT, AS INDICATED ON PLAN, THRU SLAB, WALLS OR CEILINGS, WITH 24" (MIN.) RADIUS MINIMUM SWEEPING BENDS, INTERNALLY SMOOTH AND WATERTIGHT. EXACT DIAMETER OF CONDUIT TO BE DETERMINED ON PER PROJECT BASIS - VERIFY BEFORE CONSTRUCTION.

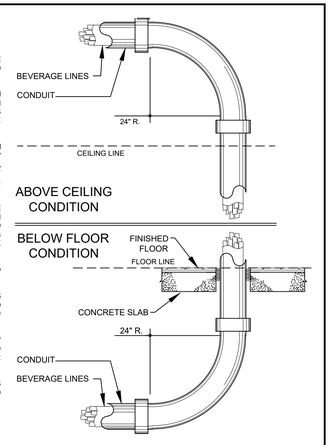
FURNISH P.V.C. CONDUIT AS DESCRIBED IN ARTICLE 347 OF THE NATIONAL ELECTRIC CODE, STANDARD 651 NEMA SPEC. 7-C2 ROBINTECH P.V.C. DUCT AND SWEEP ELBOWS OR EQUAL. CAUTION: PLUMBING STYLE P.V.C. SHORT RADIUS FACTORY "ELLS" ARE NOT ACCEPTABLE.

A PULL BOX SHALL BE INSTALLED AFTER EVERY TWO RADIUS BENDS OR 75 FEET OF CONDUIT.

ALL JOINTS SHALL BE SOLVENT CEMENTED AS RECOMMENDED BY THE MANUFACTURER AND PRESSURE TESTED FOR LEAKS PRIOR TO BACKFILLING, TO CREATE A LIQUID TIGHT CONDITION.

CONDUIT SHALL BE EXTENDED A MINIMUM OF 6" ABOVE FINISHED FLOOR AND CAPPED AND SEALED DURING CONSTRUCTION. BEER CONDUIT IN COOLER TO EXTEND UP 6" ABOVE COOLER FLOOR.

AFTER PRODUCT LINES ARE INSTALLED, OPEN ENDS OF THE CONDUIT ARE TO BE FILLED WITH EXPANDO FOAM APPROXIMATELY 2 TO 4 INCHES AT EACH END.



BEVERAGE SYSTEM CONDUIT DETAIL

NO SCALE

GENERAL CONSTRUCTION NOTES

1. THESE DRAWINGS ARE TO BE USED AS AN INSTRUMENT OF REFERENCE BY ALL OTHER TRADES AND CONTRACTORS. ALL TRADES SHALL VERIFY THE INFORMATION AS INDICATED ON THESE PLANS.
2. DIMENSIONS AND REQUIREMENTS FOR ALL EQUIPMENT THAT IS LISTED AS EXISTING, PROVIDED BY OTHERS OR PROVIDED BY OWNER, MUST BE VERIFIED WITH THE APPROPRIATE PARTIES.
3. ALL LOCAL, STATE AND NATIONAL CODES SHALL APPLY.
4. ARCHITECT TO LOCATE, GENERAL CONTRACTOR TO PROVIDE ALL OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS FOR THE EXTENSION OF REFRIGERATION LINES, BEVERAGE LINES, ELECTRICAL LINES, PLUMBING LINES, EXHAUST AND SUPPLY VENTILATION DUCTS. CURBS, PITCH POCKETS OR SPECIAL FINISHING FOR THESE OPENINGS SHALL BE SUPPLIED BY OTHERS.
5. SUPPLY FANS TO BE LOCATED A MINIMUM OF 10'-0" FROM ANY AIR INLET OR OUTLET ON THE ROOF SUCH AS EXHAUST FANS, VENT STACKS, AIR CONDITIONERS, REFRIGERATION COMPRESSORS, ETC.
6. ALL INFORMATION PROVIDED FOR FOOD SERVICE HOOD SYSTEMS PERTAINING TO QUANTITY, SIZE AND LOCATION OF EXHAUST AND SUPPLY DUCT COLLARS, CFM RATINGS AND STATIC PRESSURE MUST BE CONFIRMED WITH THE MANUFACTURER'S APPROVED SHOP DRAWINGS.
7. GENERAL CONTRACTOR TO PROVIDE 3/4" PLYWOOD WALL BACKING ON WALLS FOR WALL MOUNTED EQUIPMENT. ALTERNATIVE FOR PLYWOOD MUST BE USED UNDER HOODS AND AT FIRE RATED WALLS PER LOCAL CODES. ALL WALL BACKING MUST BE BEHIND WALL FINISH. NO EXPOSED WALL BACKING SHALL BE ALLOWED. LOCATION AND HEIGHT TO BE COORDINATED WITH MANUFACTURER'S SHOP DRAWINGS AND SPECIFICATION SHEETS.
8. PROVIDE COVED BASES AT ALL VERTICAL INTERSECTIONS OF FLOORS IN KITCHEN AND STORAGE AREAS.
9. ALL HVAC REGISTERS ARE TO BE LOCATED SO AS TO PREVENT ANY INTERFERENCE IN PERFORMANCE OF EXHAUST HOODS, HEATERS OR WARMERS.
10. BOTTOM OF HOODS ARE TO BE MOUNTED AT 6'-6" ABOVE FINISHED FLOOR, UNLESS OTHERWISE SPECIFIED BY LOCAL CODES.
11. RECOMMENDED CEILING HEIGHTS ARE LISTED BELOW. CONTACT HOCKENBERGS IMMEDIATELY IF MINIMUM HEIGHTS ARE LESS THAN THOSE INDICATED:
    A. KITCHEN AREAS WITH EXHAUST HOODS: 8'6"
    B. KITCHEN AREAS WITH WALK-IN COOLER/FREEZERS: 9'-6"
    C. KITCHEN AREAS WITH ICE MACHINES &/or COMPRESSORS: 9'-0"
    D. GENERAL KITCHEN AREAS: 8'-0"
12. REMOTE CONDENSING UNITS & COMPRESSOR UNITS ARE TO BE LOCATED OUTSIDE WHERE POSSIBLE. FOR INSIDE LOCATIONS, VERIFY PROVISION OF SUFFICIENT VENTILATION WITH MANUFACTURER. ARCHITECT TO LOCATE ALL REMOTE COMPRESSORS AND CONDENSERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

GENERAL CONSTRUCTION & BUILDING WORKS LEGEND

- BEVERAGE LINE
- IN WALL BACKING
- SODA LINE CONDUIT
- BEER/WINE LINE CONDUIT

PRELIMINARY DRAWING

NOT TO BE USED FOR CONSTRUCTION

RELEASE FOR CONSTRUCTION
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RED DOOR GRILL

LEES SUMMIT, MO

Food Service Equipment

PROJECT NUMBER: 10-21004

DATE: 02/DD/2021

SCALE: AS NOTED

DRAWN BY: DRW | APPROVED BY: JL

SHEET TITLE: BUILDING WORKS PLAN

SHEET NUMBER: K-4