

West Social Food Hall - alterations

1100 W. Third Street, Dayton, OH 45402

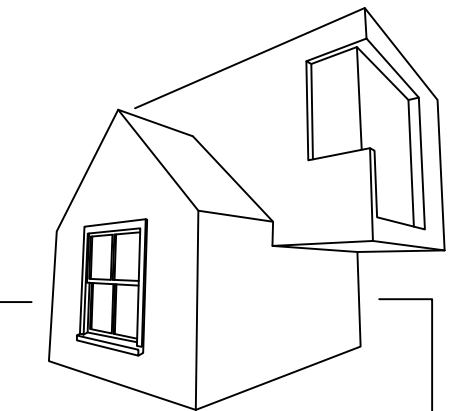
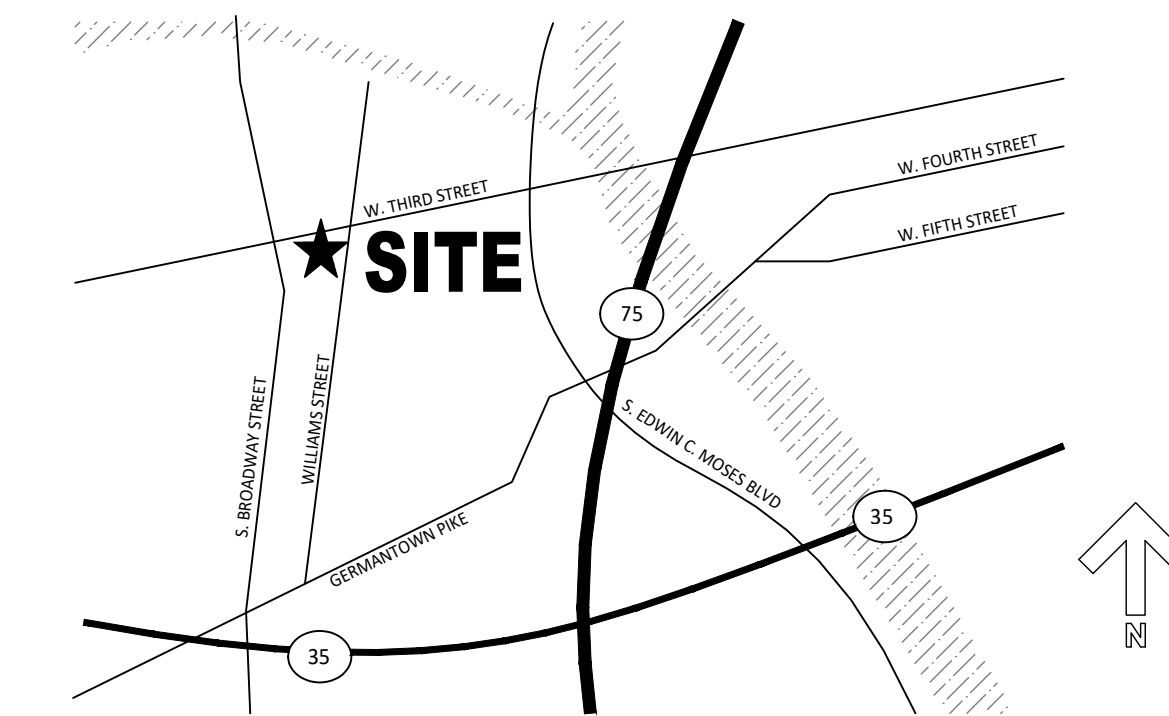
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155 W Central Ave, Springboro, OH 45066

August 21, 2020

- REVISION 10/15/2020
- REVISION 11/03/2020
- REVISION 12/04/2020
- REVISION 06/22/2021
- REVISION 08/05/2021
- REVISION 09/14/2021
- REVISION 10/25/2021

VICINITY PLAN



MATTHEW SAUER ARCHITECT LLC
 450 WEST GRAND AVENUE
 DAYTON OH 45410
 matthewsauer@gmail.com
 937.985.3801

ZONING CODE SUMMARY

ZONING DISTRICT: MNC W/PD-121

NARRATIVE OF ALTERATIONS

THESE ARE ALTERATIONS TO 1100 W. THIRD STREET TO A FOOD HALL-TYPE RESTAURANT AND BAR. THE EXISTING STRUCTURE IS A ONE STORY BUILDING FORMERLY HOUSING A BANQUET HALL. TOTALING APPROXIMATELY 6,500 SF ON THE GROUND FLOOR, WITH A PARTIAL BASEMENT. OUTDOOR DINING IS PLANNED TO REPLACE THE CURRENT SURFACE PARKING LOT SOUTH OF THE BUILDING AND ALONG WILLIAMS STREET.

REVISION

THE EXTERIOR WILL RECEIVE A NEW FRONT ENTRANCE DOOR TO THE BASEMENT, NEW OPENINGS FOR SWINGS- AND OVERHEAD DOORS ON THE EAST FACADE, AND A NEW ENTRANCE DOOR ON THE SOUTH FACADE.

REVISION

NEW SIGNAGE WILL BE SUBMITTED UNDER SEPARATE APPLICATION. AN EXISTING EXTERIOR MURAL WILL REMAIN ON THE EAST FACADE, BUT TOUCH-UP PAINTING MAY BE REQUIRED TO CORRECT FOR DEMOLITION ACTIVITY FOR THE NEW OPENINGS.

THE BUILDING IS ON MULTIPLE PARCELS TOTALING APPROXIMATELY 0.323 ACRES. THE PARCEL ABUTS OTHER MNC PARCELS ON ITS EAST, WEST, AND NORTH BORDERS AND AN MR-5 DISTRICT ACROSS THE ALLEY TO THE SOUTH. THERE ARE 12 EXISTING OFF STREET PARKING SPACES SERVING THE BUILDING THAT WILL BE ELIMINATED. A LOADING AREA AND DUMPSTER ENCLOSURE WILL MAKE UP PART OF THE REAR OF THE BUILDING (SOUTH).

THE PROPOSED USE IS FOR A MULTI-TENANT FOOD HALL WITH OUTDOOR DINING. NO NEW ADDITIONS ARE PROPOSED, BUT MULTIPLE NEW OPENINGS WILL BE CREATED ON THE EAST AND SOUTH FACADES. NEW CONCRETE WALKWAYS WILL CONNECT THE REAR AND EAST ENTRANCES WITH WILLIAMS STREET.

USES

EATING AND DRINKING ESTABLISHMENTS ARE A PERMITTED USE IN MNC DISTRICTS DISTRICTS. OUTDOOR DINING IS PROPOSED.

PARKING AND LOADING

LOADING ZONE IS SHOWN ON SHEET A-100. NO PARKING IS REQUIRED OR PROVIDED UNDER PD-121, WHICH PROVIDES FOR PD-WIDE SHARED PARKING IN MULTIPLE PUBLIC LOTS.

BICYCLE PARKING PROVIDED: 6 SPACES

BUILDING SETBACKS

[NORTH] FRONT SETBACK NONE
 SIDE SETBACK VARIES
 REAR SETBACK 54'-11" TO ALLEY

HEIGHT

THE BUILDING IS 15'-9" TO HIGHEST PARAPET ELEVATION. NO CHANGE IN HEIGHT PROPOSED.

LANDSCAPING AND SCREENING

SEE SITE PLAN FOR EXISTING STREET TREE LAYOUT AND PROPOSED FENCING, PATIO, AND PAVING CHANGES.

DUMPSTER ENCLOSURE

NEW WOOD DUMPSTER ENCLOSURE IN REAR OF BUILDING.

SIGNAGE

BUILDING SIGNAGE TO BE SUBMITTED UNDER SEPARATE PERMIT.

BUILDING CODE SUMMARY

CODES USED: OBC 2017, ANSI-117.1-2009

NARRATIVE

THESE ARE ALTERATIONS TO A BANQUET HALL OF 6,448 SF AT 1100 W. THIRD STREET, DAYTON, OH. THE BUILDING WAS CONSTRUCTED CIRCA 1980 AND IS ONE STORY IN HEIGHT. AN ADJACENT PARKING LOT WRAPPING THE BUILDING'S EAST AND SOUTH WILL BE PARTIALLY RESURFACED AND USED FOR LOADING ZONE, NEW DUMPSTER PAD, AND OUTDOOR DINING.

THE 4,263 SF BASEMENT WILL BE USED FOR STORAGE (S-2 USE GROUP), THE BEER COOLER, AND MECHANICAL SYSTEMS. AN EXISTING STAIR FROM THE BASEMENT WILL BE AUGMENTED BY AN ADDITIONAL STAIRWELL WITH A DIRECT EXIT.

NAME OF PROJECT: WEST SOCIAL FOOD HALL
 OWNER: DILLIN
 CONTACT: AJ AERNI
 PHONE: 513-607-8288
 ADDRESS: 155 W. CENTRAL AVENUE
 SPRINGBORO, OH 45066
 DAYTON, OHIO

PROJECT JURISDICTION: MATTHEW SAUER ARCHITECT LLC

450 W. GRAND AVENUE
 DAYTON, OH 45405

LICENSE #: 15587
 TELEPHONE: 937-985-3801
 ATTN: matthewsauer@gmail.com

MECHANICAL, ELECTRICAL & PLUMBING ENGINEER:

BUILDING SYSTEMS ENGINEERING, LTD.
 1370 N FAIRFIELD RD, SUITE E
 BEAVERCREEK, OHIO 45432
 CONTACT: MATT YANNEY
 LICENSE #: PE-60542
 TELEPHONE: 937-306-1468
 EMAIL: mbyanney@bsetld.biz

BUILDING DATA

BUILDING TYPE: IIIB
 YEAR CONSTRUCTED: 1980
 STORIES: 1 w/ BASEMENT
 BUILDING HEIGHT: 16'
 EXISTING FLOOR AREA: 6,448 SQUARE FEET, 1ST
 2,453 SQUARE FEET, BASEMENT

FLOOR AREA OF ADDITIONS:

ALLOWABLE AREA, A-2 / "S1": 38,000 SF (TYPE IIIB CONSTRUCTION)
 CURRENT USE: BANQUET HALL
 PROPOSED USE: RESTAURANT AND BAR W/ STORAGE IN BASEMENT
 FIRE SUPPRESSION: PROPOSED FULLY SUPPRESSED (DESIGN AND PERMIT SUBMISSION BY FIRE SPRINKLER CONTRACTOR)

FIRE ALARM:

SOUND AND VISUAL NOTIFICATION
 FIRE SEPARATION: NONE (TABLE 508.4)
 HORIZONTAL SEPARATION: NONE (TABLE 508.4)
 PORTABLE FIRE EXTINGUISHERS: PROVIDED - SEE A-101 FOR LOCATIONS

SEATING CAPACITY AS SHOWN:

116 SEATS IN DINING ROOM (INCLUDING 19 SEATS AT THE BAR)

INDOOR OCCUPANCY CALCULATION:

167
 FOOD HALL (A-2): 153 OCCUPANTS
 BASEMENT (S-1): 14 OCCUPANTS
 (SEE OCCUPANCY TABLE THIS SHEET)

OUTDOOR DINING, BY SEAT COUNT:

192
 TOTAL OCCUPANCY FOR PLUMBING: 359

MEANS OF EGRESS ILLUMINATION:

PROVIDED, SEE ELECTRICAL PLANS.
 Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 Mixed Construction: No Yes
 Types: No Yes Partial/Limited

Sprinklers: No Yes Partial/Limited

Standpipes: No Yes

Fire District: No Yes

Flood Hazard Area: No Yes

Building Height: Feet 16'-0" Number of Stories 1

Mezzanine: No Yes

Gross Building Area: 6,448 SF

Area of all additions: 0

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business B
 Educational E
 Factory F-1 Moderate F-2 Low
 High hazard H-1 H-2 H-3 H-4 H-5 H-Multiple
 Institutional I-1 I-2 I-3 I-4
 I-3 Condition 1 2 3 4 5
 Mercantile M
 Residential R-1 R-2 R-3 R-4
 Storage S-1 S-2
 Utility U

Secondary Occupancy:

Special Uses: 402 403 404 405 406 407 408
 409 410 411 412 413 414 415
 416 417 418 419 420 421

Special Provisions: 510.2 510.3 510.4 510.5 510.6 510.7 510.8

Mixed Occupancy: No Yes Separation: 0 Hr.

Incidental Use Separation (509.4) (IUS)
 This separation is not exempt as a Non-Separated Use (see exceptions).

Accessory Occupancies (508.2) (AO)
 Subsidiary occupancies to the main occupancy of the building. Aggregate accessory occupancies shall not occupy more than 10 percent of the area of the story in which they are located.

Non-Separated Mixed Use (508.3) (NSMU)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Table 508.4: A-uses are not required to be separated from S-2 in a fully suppressed building.

Separated Use (508.4) (SU)
 For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Building Height in Feet Allowable 75' Actual 16'-0"
 Building Height in Stories Allowable 3 Actual 1

NUMBER AND ARRANGEMENT OF EXITS

USE	REQ'D	PROVIDED	EXIT ACCESS TRAVEL DISTANCE		ARRANGEMENT OF MEANS OF EGRESS (SECTION 1007.1.1)	
			ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQ'D DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
A-2	2	4	250'	63'	33' (98' / 3)	63'-4" (Door 100B to 108B)
S-2	2	2	400'	161'-10"	33' (100'-2' / 3)	46'-5" (Door 000A to 000B)

OCCUPANCY TABLE

Room number	Room name	Use	Area	Net Area	SF/person	Net?	Calculated occupants	Notes	
000	West Basement	Storage	1948 SF	1948 SF	300	N	6.5		
001	East Basement	Storage	2030 SF	2030 SF	300	N	6.8		
002	Beer Cooler	Storage	124 SF	124 SF	300	N	0.4		
100	Vestibule	Circulation	49 SF	49 SF	n/a	N	n/a		
101	Vendor 1	Commercial kitchen	298 SF	298 SF	200	N	1.5		
102	Vendor 2	Commercial kitchen	421 SF	421 SF	200	N	2.1		
103	Vendor 3	Commercial kitchen	226 SF	226 SF	200	N	1.1		
104	Vendor 4	Commercial kitchen	294 SF	294 SF	200	N	1.5		
105	Vendor 5	Commercial kitchen	305 SF	305 SF	200	N	1.5		
106	Coffee Service	Commercial kitchen	48 SF	48 SF	200	N	0.2		
107	Bar	Commercial kitchen	125 SF	125 SF	200	N	0.6		
108	Dining Room	Assembly	2140 SF	2140 SF	15	Y	142.7	By seat count, bar + dining room	
109	Stairwell South	Circulation	61 SF	61 SF	n/a	N	n/a		
110	Stairwell North	Circulation	105 SF	105 SF	n/a	N	n/a		
111	Hallway	Circulation	205 SF	205 SF	n/a	N	n/a		
112	Men's Restroom	Restroom	175 SF	175 SF	n/a	N	n/a		
113	Women's Restroom	Restroom	209 SF	209 SF	n/a	N	n/a		
114	Dishwash & Storage	Commercial kitchen	495 SF	495 SF	200	N	2.5		
115	Walk-In Cooler	Storage	107 SF	107 SF	300	N	0.4		
116	Office	Office	104 SF	104 SF	100	Y	1.0		
TOTAL							167	occupants	

EXIT WIDTHS

USE GROUP OR SPACE DESCRIPTION	AREA (SQFT)	AREA PER OCCUPANT (TABLE 1004.1.2)	CALC OCC. LOAD (ab)	EGRESS WIDTH PER OCCUPANT (SECTION 1005.1)				REQUIRED WIDTH (SECTION 1005.3)				ACTUAL WIDTH SHOWN ON PLANS			
				STAIR	OTHER	STAIR	OTHER	STAIR	OTHER	STAIR	OTHER				
FOOD HALL	6,448	see table	167	.3	.2	4.2'	33.4'	42"	25.2'						

LIFE SAFETY SYSTEM COMPONENTS PROVIDED (* DESIGNATES A REQUIRED SYSTEM)

Emergency Lighting* No Yes Smoke Detection Systems No Yes (HVAC)
 Exit Signs* No Yes Panic Hardware* No Yes
 Fire Alarms* No Yes Fire Sprinkler System* No Yes

PLUMBING FIXTURE COUNTS

USE	WATER CLOSETS		LAVATORIES		SERVICE SINK	NON-ACCESS. ACCESS.	
	MEN'S	WOMEN'S	MEN'S	WOMEN'S		ACCESS.	ACCESS.
REQUIRED FIXTURES @ 359 OCCUPANCY	3	3	1	1	1	0	0
(1 per 75 occupants)			(1 per 200 occupants)				
PROVIDED FIXTURES @ 359 OCCUPANCY	1 +2 urinals	3	2	2	1	0	0

* WATER PROVIDED TO PATRONS UPON REQUEST.

ELECTRICAL SUMMARY

SEE NEW ELECTRICAL PLAN SHEETS.

MECHANICAL SUMMARY

SEE NEW HVAC PLAN SHEETS.

PLUMBING SUMMARY

SEE NEW PLUMBING PLAN SHEETS.

SHEET LIST

GENERAL
 G-001 Cover Sheet

CIVIL

C1 Site Plan

ARCHITECTURAL

A-001 Site Plan
 A-100 Demo and Roof Plan
 A-101 Basement and First Floor Plans
 A-102 First Floor Reflected Ceiling Plan
 A-110 Enlarged Plans
 A-111 Enlarged Plans
 A-120 Casework Sections
 A-200 Exterior Elevations
 A-600 Door and Finish Schedule
 A-601 Finish Details
 A-602 Soffit Details

STRUCTURAL

S101 STRUCTURAL PLAN AND DETAILS

PLUMBING

P-101 Legend & Schedules
 P-102 Specifications

P-201 Basement, First Floor & Roof Plans - Demolition
 P-202 Basement Plan - New Work & Details
 P-203 Roof & First Floor Plans - New Work
 P-204 Soil, Waste & Vent Diagrams

MECHANICAL

M-101 Schedules
 M-102 Legends, Details & Notes
 M-103 Specifications
 M-201 Basement and First Floor Plans - Demolition
 M-202 Basement Plan - New Work
 M-203 First Floor Plan - New Work
 M-204 Roof Plan - New Work

ELECTRICAL

E-101 Legends, Schedules & Details
 E-102 Specifications
 E-201 Basement and First Floor Plans - Demolition
 E-202 Basement Plan - New Work
 E-203 First Floor Plan - Power
 E-204 First Floor Plan - Lighting
 E-205 Roof Plan - New Work



MATTHEW SAUER, LICENSE #15587
 EXPIRATION DATE 12/31/2021

PROJECT No.: 2018-19

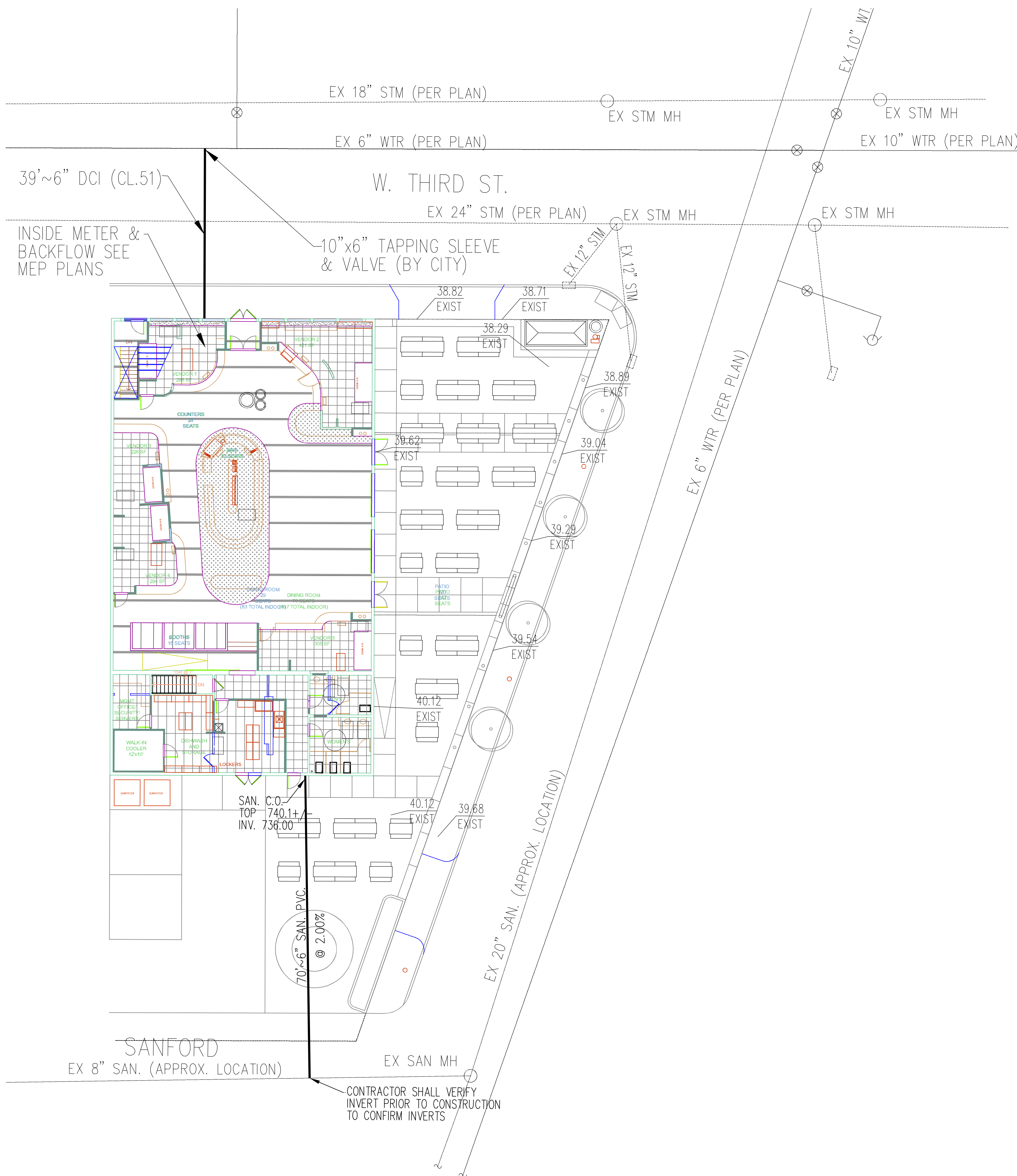
SHEET NAME: COVER SHEET

G-001



REVISIONS

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UTILITY	OWNER	TELEPHONE
CABLE	TIME-WARNER 1450 EXPERIMENT FARM RD. TROY, OH. 45373	(937)-294-6400
ELECTRIC	DAYTON POWER & LIGHT 1900 DRYDEN ROAD DAYTON, OH. 45439	(937)-331-3086
TELEPHONE	AT&T 3233 WOODMAN DR. DAYTON, OH 45420	(937)-296-3606
GAS	VECTREN 4285 N. JAMES H. MCGEE BLVD. DAYTON, OH. 45427	(937)-312-2533
SANITARY SEWER	CITY OF DAYTON, DEPT. OF WATER 320 WEST MONUMENT STREET DAYTON, OHIO 45402	(937)-333-3725
STORM SEWER & STREETS	CITY OF DAYTON, DEPT. OF WATER 320 WEST MONUMENT STREET DAYTON, OHIO 45402	(937)-333-3725
WATER MAINS	CITY OF DAYTON, DEPT. OF WATER 320 WEST MONUMENT STREET DAYTON, OHIO 45402	(937)-333-3725

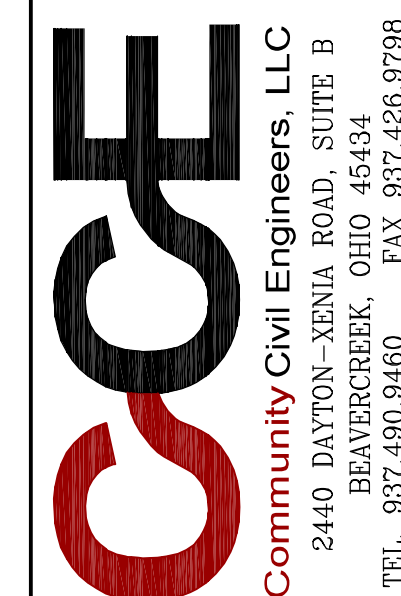
CITY OF DAYTON GENERAL NOTES

- All existing utilities are shown in their approximate location according to the best available information. The contractor shall be required to field locate exact locations and elevations of existing underground utilities prior to setting grade and alignment. The City of Dayton and the Department of Water assumes no responsibility for the accuracy or depth of the underground facilities shown on the approved construction drawings. If damage is caused, the contractor shall be responsible for repair of the same and for any resulting contingent damage. The contractor shall assume responsibility for protection of all existing utilities during construction. All cost for locating, removing and replacing or relocating these utilities shall be incidental to construction. All utilities damaged during construction shall be repaired to the Utility Owner's satisfaction. The exact location of existing utilities shall be determined by hand digging.
- Location, support, protection, and restoration of all existing utilities and appurtenances, whether or not shown on the approved construction drawings, shall be the responsibility of the contractor.
- When unknown or incorrectly located underground utilities are encountered during construction, the contractor shall immediately notify the utility owner and the Department of Water.
- All work shall conform to the City of Dayton, Construction and Material Specifications (latest edition).
- No construction shall commence until City of Dayton permits have been issued as required.
- All project orders (field or office), requests, changes, additions or deletions pertaining to public water main, storm sewer, and sanitary sewer facilities shall be only by direction or request of the Department of Water.
- The contractor shall notify residents and businesses affected by street closures a minimum of 48 hours in advance of the actual street closing.
- Roadway restoration within the City of Dayton corporation limits shall be done in compliance with the Department of Public Works Rules and Regulations for Making Openings in a Public Way? (latest Edition).
- Forty-eight hours prior to any construction, excavation or digging, the contractor shall call and notify the Ohio Utilities Protection Services (OUPS) at 1-800-362-2764. All other agencies, which might have underground utilities in this area and are not members of OUPS, shall be notified directly by the contractor.
- Approval of plans by the Department of Water does not relieve the designer, owner, or person in control of the property from liability for injury to persons or property.
- Approval of the plans shall become void if construction has not commenced within twelve (12) months from the date approved by the Department of Water. In addition, the plans shall become void if construction is not completed within two (2) years from the date approved by the Department of Water.
- All fills (including trench bedding and backfill) intended to support a water main, sanitary sewer, storm sewer or drainage channel shall be compacted to not less than 90% maximum density (Modified Proctor Test ASTM D1557), unless otherwise noted. Field verification and formal result submittals may be requested (as necessary) by the Department of Water.
- In addition to the notes on this sheet, contractor's attention shall be directed to the notes on the attached sheets as well.
- Compacted fills are to be made to a minimum of three feet above the crown of any proposed water line, sanitary or storm sewer lines prior to cutting of trenches for placement of said lines. All fills shall be controlled, compacted and inspected.

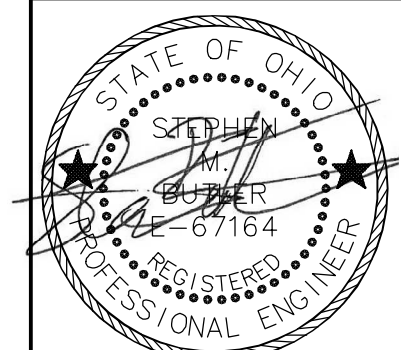
CONTRACTOR SHALL CONTACT THE CITY OF DAYTON, DEPT. OF WATER, CONSTRUCTION INSPECTION 320 WEST MONUMENT AVENUE DAYTON, OHIO 45402, AT 937.333.3725 PRIOR TO BEGINNING WATER SERVICE WORK.



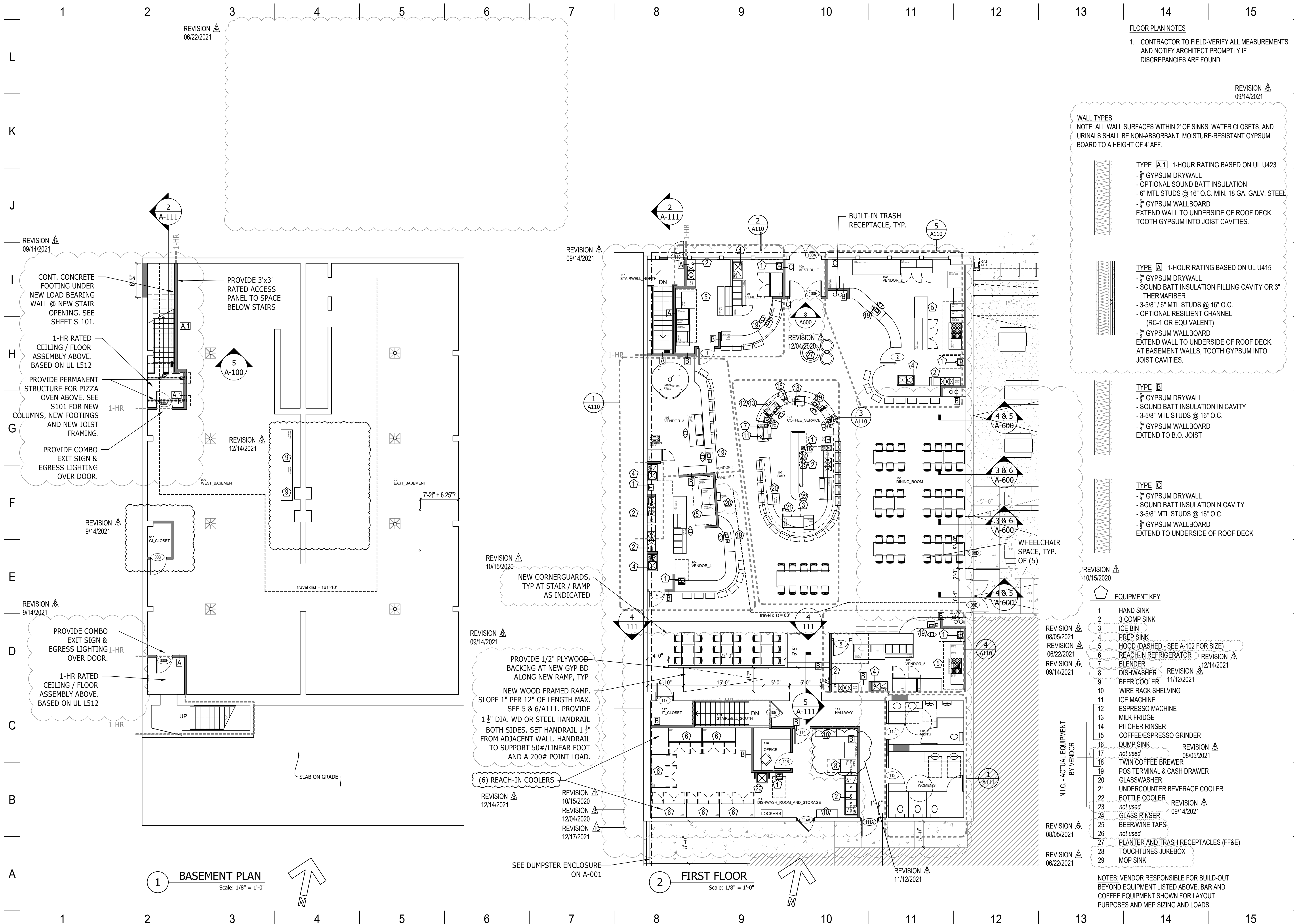
NOTE:
THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.



UTILITY PLAN
WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1100 W. Third Street, Dayton, OH 45402



DESIGN: DATE: 10/12/2020
DRAWN:
CHECK: **C1**
JOB #: 20-459



1 BASEMENT PLAN
Scale: 1/8" = 1'-0"

2 FIRST FLOOR
Scale: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. CONTRACTOR TO FIELD-VERIFY ALL MEASUREMENTS AND NOTIFY ARCHITECT PROMPTLY IF DISCREPANCIES ARE FOUND.

WALL TYPES

NOTE: ALL WALL SURFACES WITHIN 2' OF SINKS, WATER CLOSETS, AND URINALS SHALL BE NON-ABSORBANT, MOISTURE-RESISTANT GYPSUM BOARD TO A HEIGHT OF 4' AFF.

TYPE [A1] 1-HOUR RATING BASED ON UL U423
 - 5/8" GYPSUM DRYWALL
 - OPTIONAL SOUND BATT INSULATION
 - 6" MTL STUDS @ 16" O.C. MIN. 18 GA. GALV. STEEL
 - 5/8" GYPSUM WALLBOARD
 EXTEND WALL TO UNDERSIDE OF ROOF DECK. TOOTH GYPSUM INTO JOIST CAVITIES.

TYPE [A] 1-HOUR RATING BASED ON UL U415
 - 5/8" GYPSUM DRYWALL
 - SOUND BATT INSULATION FILLING CAVITY OR 3" THERMAFIBER
 - 3-5/8" / 6" MTL STUDS @ 16" O.C.
 - OPTIONAL RESILIENT CHANNEL (RC-1 OR EQUIVALENT)
 - 5/8" GYPSUM WALLBOARD
 EXTEND WALL TO UNDERSIDE OF ROOF DECK. AT BASEMENT WALLS, TOOTH GYPSUM INTO JOIST CAVITIES.

TYPE [B]
 - 5/8" GYPSUM DRYWALL
 - SOUND BATT INSULATION IN CAVITY
 - 3-5/8" MTL STUDS @ 16" O.C.
 - 5/8" GYPSUM WALLBOARD
 EXTEND TO B.O. JOIST

TYPE [C]
 - 5/8" GYPSUM DRYWALL
 - SOUND BATT INSULATION N CAVITY
 - 3-5/8" MTL STUDS @ 16" O.C.
 - 5/8" GYPSUM WALLBOARD
 EXTEND TO UNDERSIDE OF ROOF DECK

EQUIPMENT KEY

- 1 HAND SINK
- 2 3-COMP SINK
- 3 ICE BIN
- 4 PREP SINK
- 5 HOOD (DASHED - SEE A-102 FOR SIZE)
- 6 REACH-IN REFRIGERATOR
- 7 BLENDER
- 8 DISHWASHER
- 9 BEER COOLER
- 10 WIRE RACK SHELVING
- 11 ICE MACHINE
- 12 ESPRESSO MACHINE
- 13 MILK FRIDGE
- 14 PITCHER RINSER
- 15 COFFEE/ESPRESSO GRINDER
- 16 DUMP SINK
- 17 not used
- 18 TWIN COFFEE BREWER
- 19 POS TERMINAL & CASH DRAWER
- 20 GLASSWASHER
- 21 UNDERCOUNTER BEVERAGE COOLER
- 22 BOTTLE COOLER
- 23 not used
- 24 GLASS RINSER
- 25 BEER/WINE TAPS
- 26 not used
- 27 PLANTER AND TRASH RECEPTACLES (FF&E)
- 28 TOUCHTUNES JUKEBOX
- 29 MOP SINK

NOTES: VENDOR RESPONSIBLE FOR BUILD-OUT BEYOND EQUIPMENT LISTED ABOVE. BAR AND COFFEE EQUIPMENT SHOWN FOR LAYOUT PURPOSES AND MEP SIZING AND LOADS.

REVISION 09/14/2021

REVISION 06/22/2021

REVISION 09/14/2021

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REVISION 10/15/2020

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MATTHEW SAUER, LICENSE #15587
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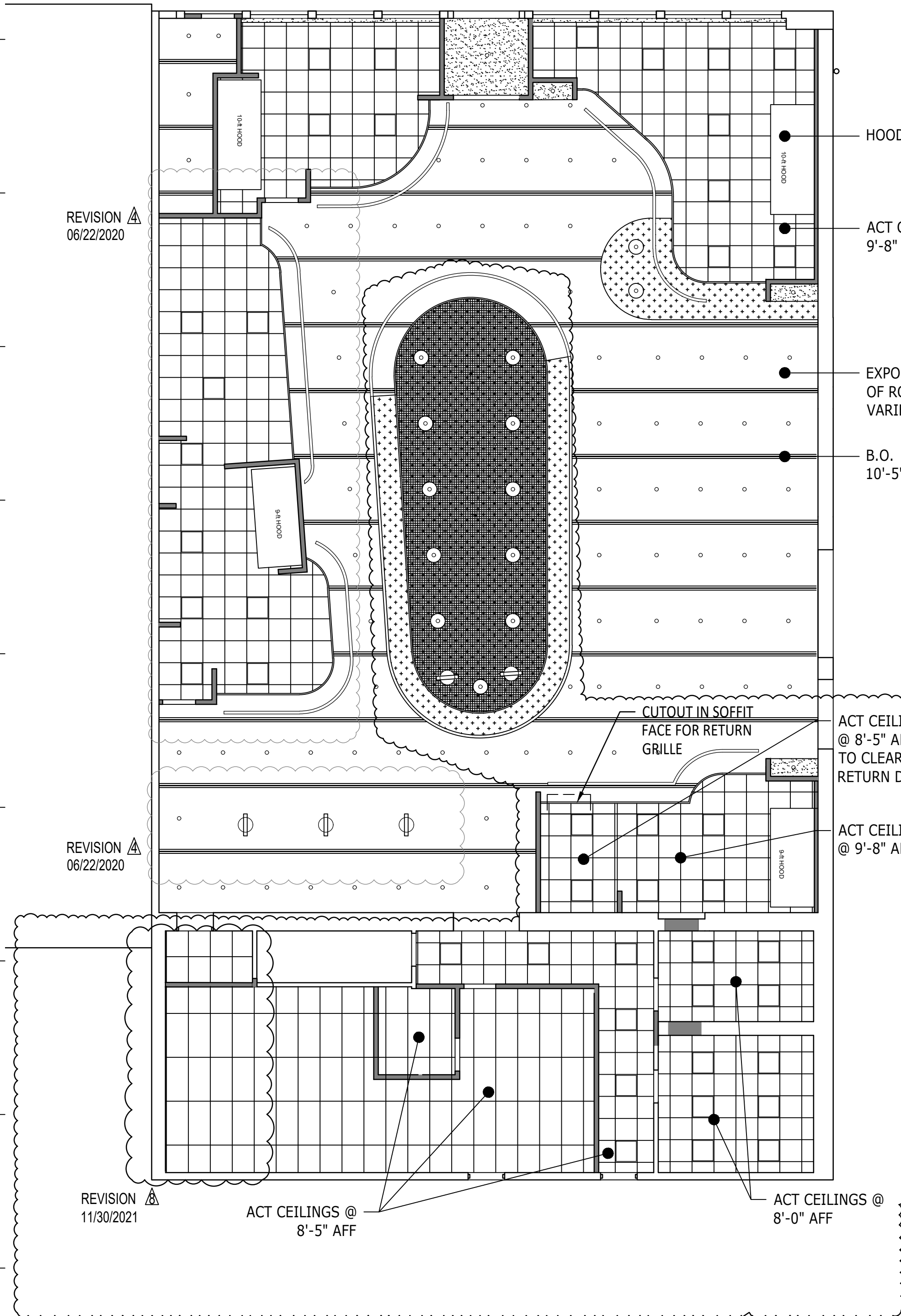
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WRIGHT-DUNBAR INC.
 1100 W. Third Street, Dayton, OH 45402

REVISION	DATE
ISSUE DATE	08/21/2020
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REVISION	11/03/2020
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REVISION	09/14/2021
REVISION	10/25/2021
REVISION	11/12/2021
REVISION	12/14/2021
REVISION	12/17/2021
PROJECT No.:	2020-09

SHEET NAME:
 BASEMENT AND FIRST FLOOR PLANS

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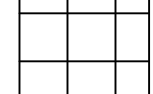

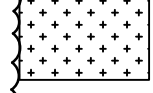
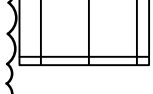

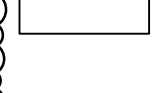
REVISION
06/22/2020

REVISION
06/22/2020

REVISION
11/30/2021

REVISION
09/14/2021

CEILING LEGEND

-  ACOUSTICAL CEILING TILE AND GRID - 2x2
-  PAINTED GYPSUM SOFFIT
-  SUSPENDED ACOUSTICAL PANELS
-  ACOUSTICAL CEILING TILE AND GRID - 2x4
-  1x1 SS WELDED WIRE FABRIC SUSPENDED w/ AIRCRAFT CABLE
-  EXPOSED STEEL JOISTS AND DECK (NO NEW CEILING)

NOTE: CONTRACTOR TO INCLUDE 1,800 SF OF TECTUM PANELS TO BE ADHERED TO UNDERSIDE OF ROOF DECK AND PAINTED OUT WITH THE REST OF THE CEILING. PANEL LAYOUT TO BE PROVIDED BY ARCHITECT.











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DAYTON OH 45405
matthewsauer@gmail.com
937.985.3801



MATTHEW SAUER, LICENSE #15587
EXPIRATION DATE 12/31/2021

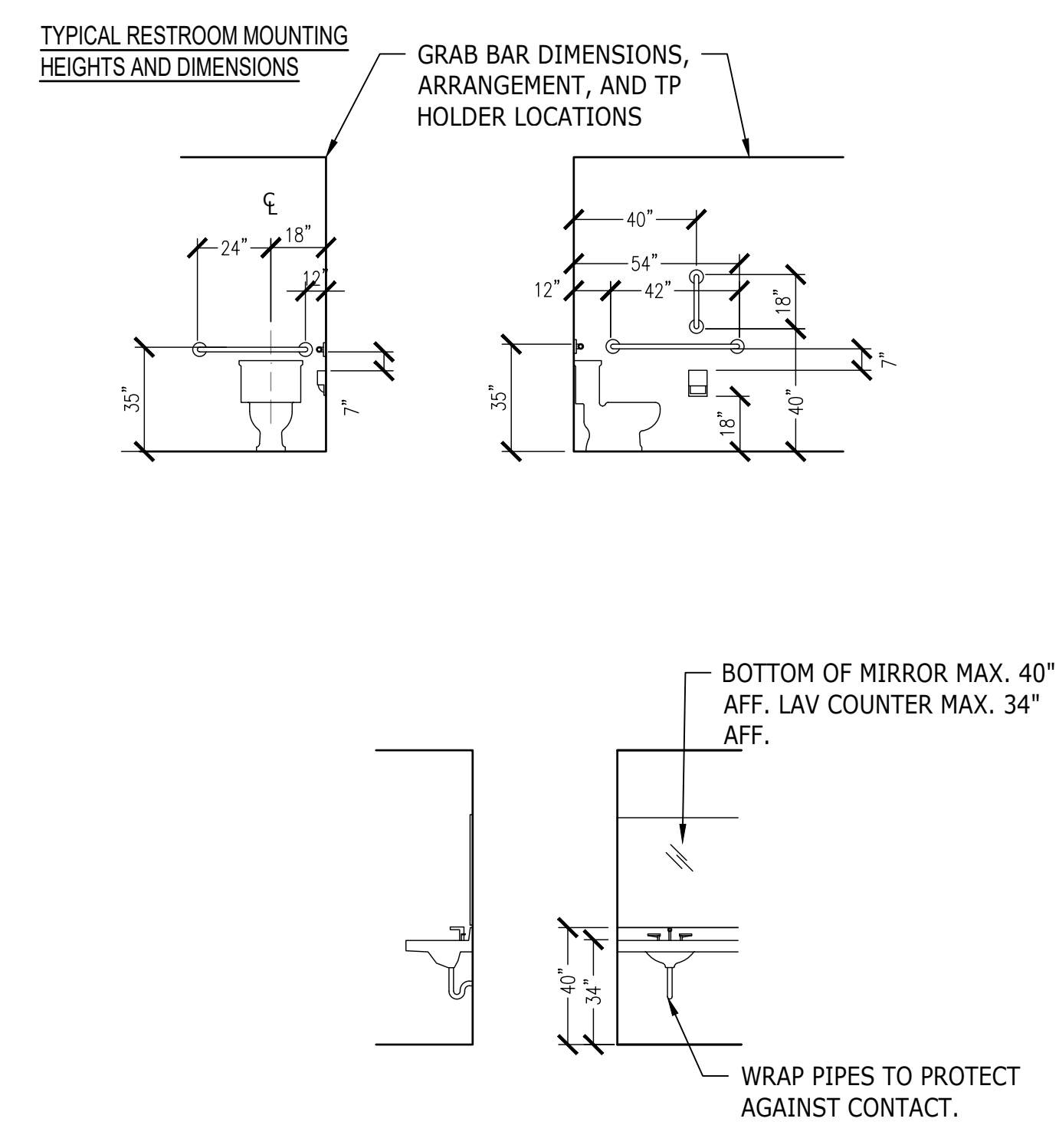
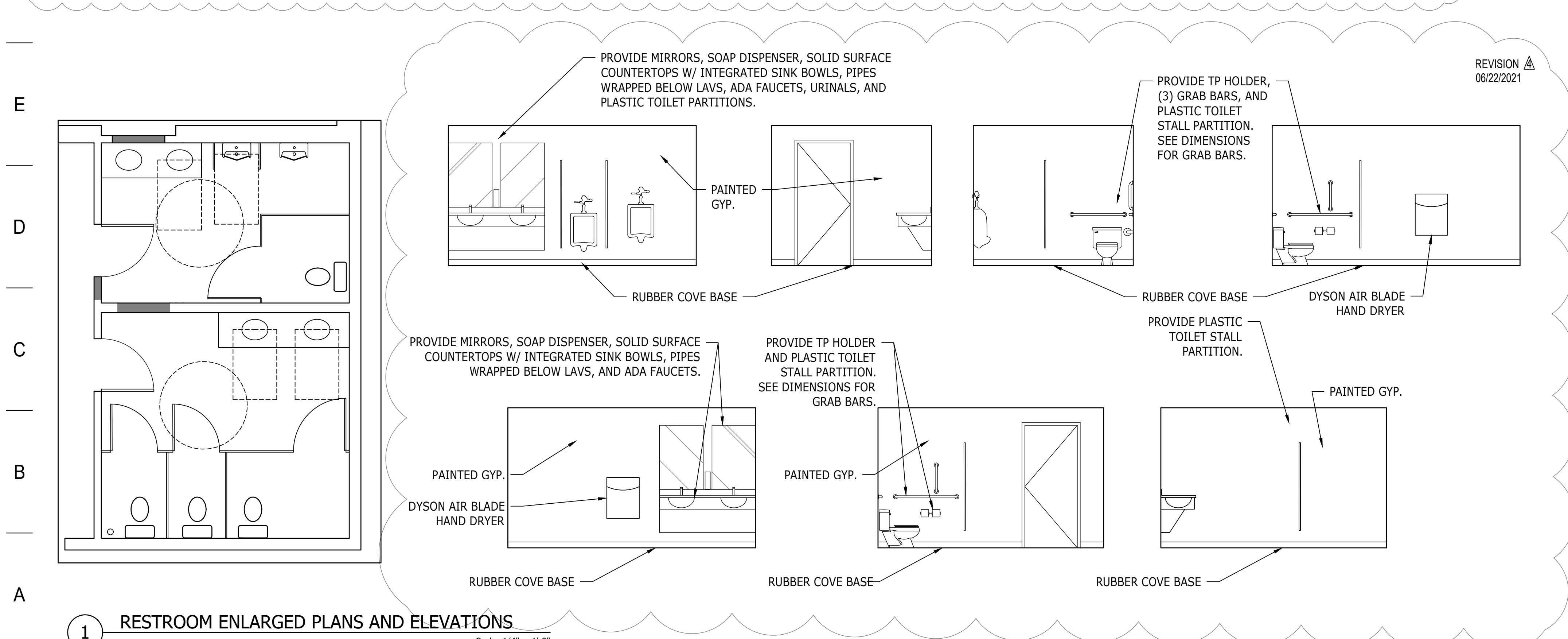
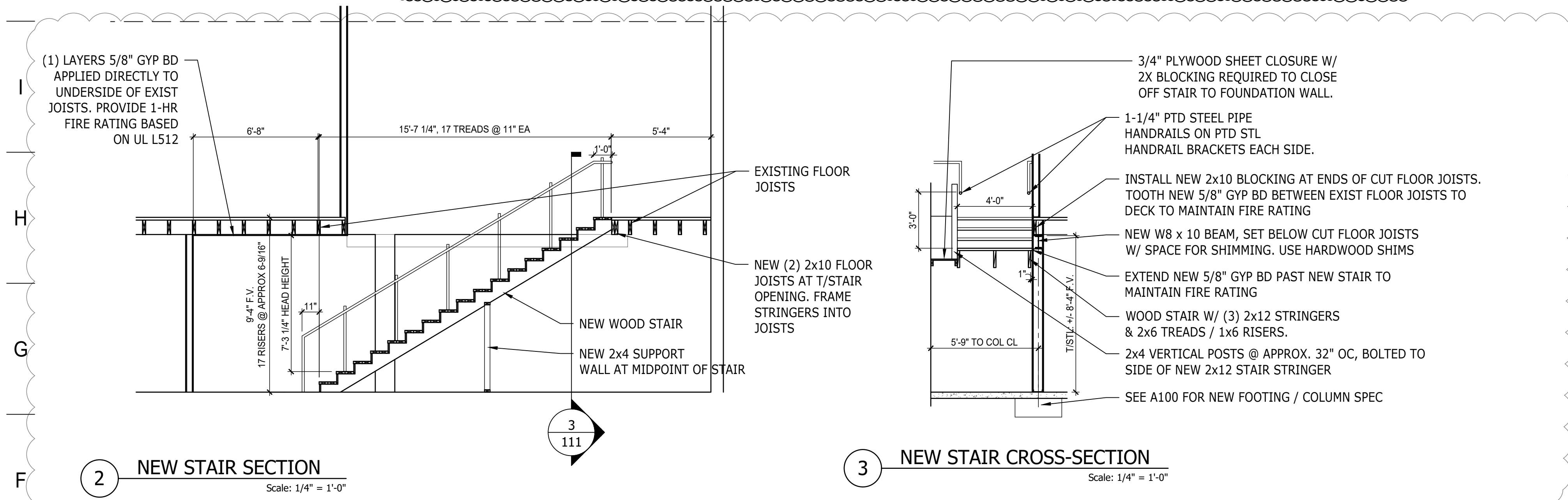
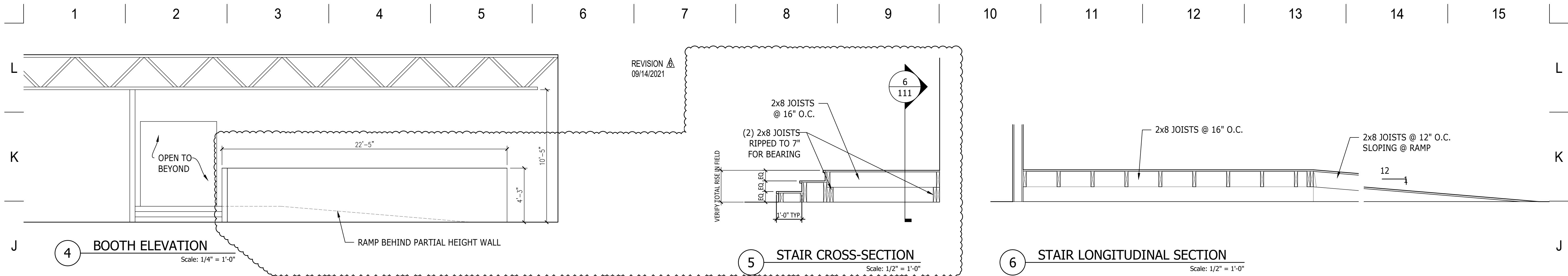
WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1100 W. Third Street, Dayton, OH 45402

REVISION	DATE
ISSUE DATE	08/21/2020
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REVISION 	11/03/2020
REVISION 	12/04/2020
REVISION 	06/22/2021
REVISION 	08/05/2021
REVISION 	09/14/2021
REVISION 	10/25/2021
REVISION 	11/30/2021
PROJECT No.:	
2020-09	

SHEET NAME:
REFLECTED CEILING PLAN

1 FIRST FLOOR REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15



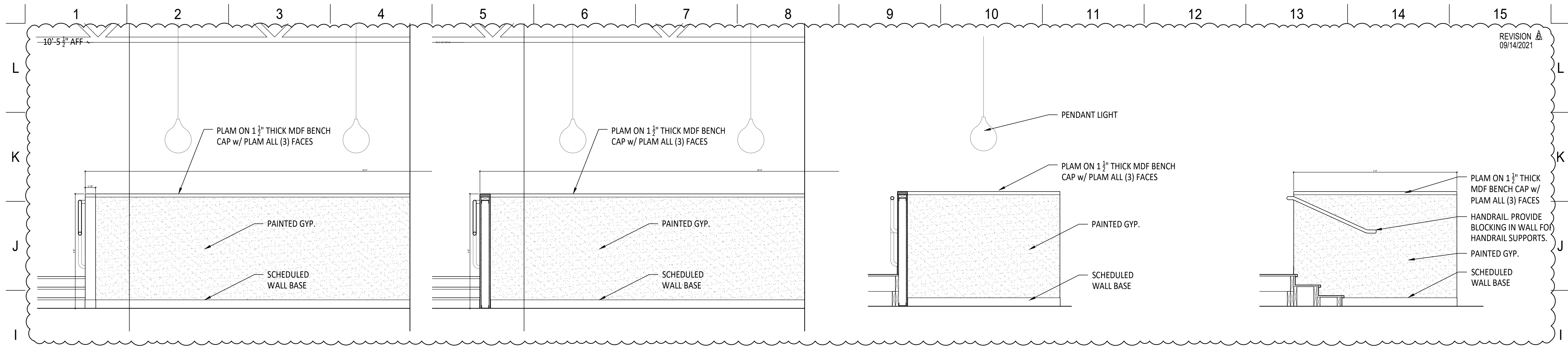
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REVISION Δ	09/14/2021
REVISION Δ	10/25/2021
PROJECT No.:	2020-09

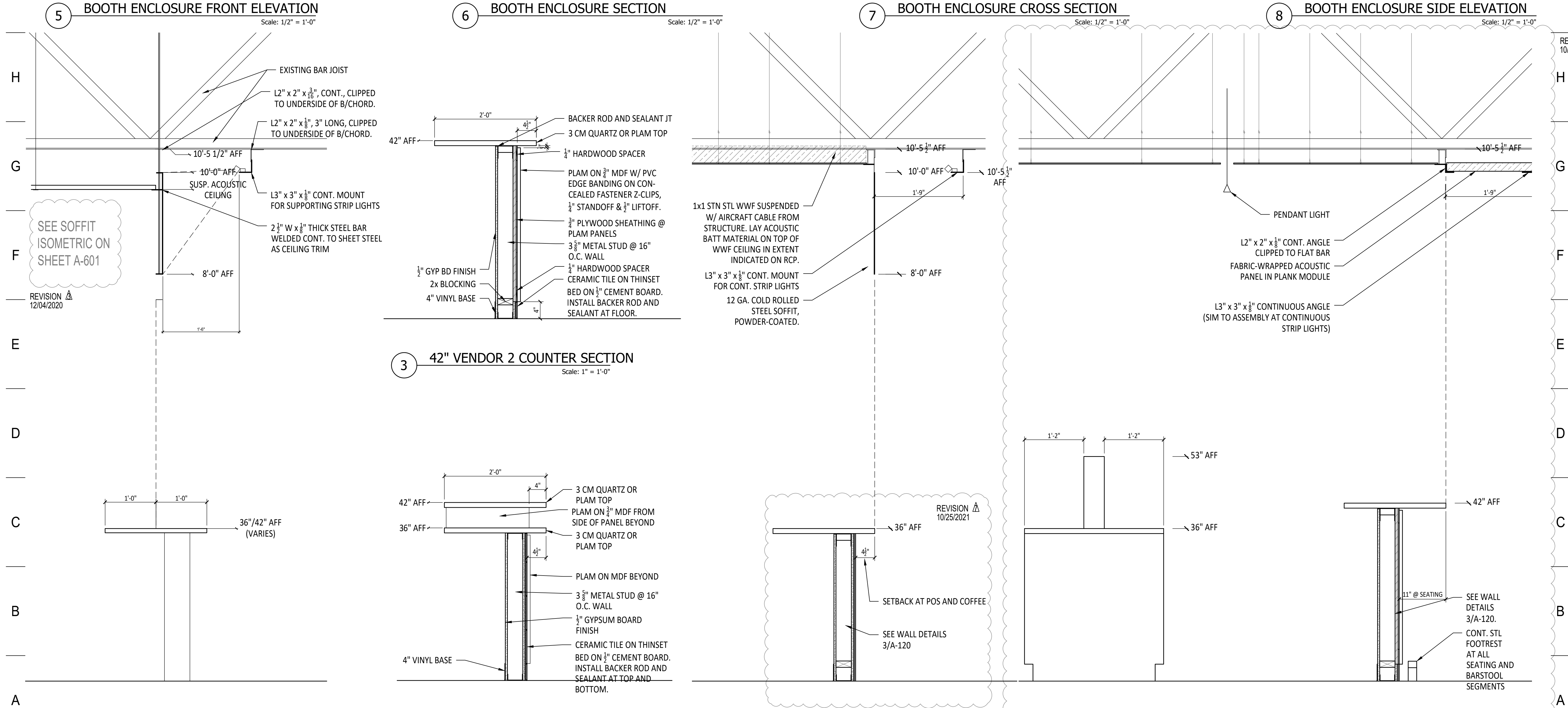
SHEET NAME:
ENLARGED PLANS



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MATTHEW SAUER, LICENSE #15587
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WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402

WRIGHT-DUNBAR INC.
1100 W. Third Street, Dayton, OH 45402

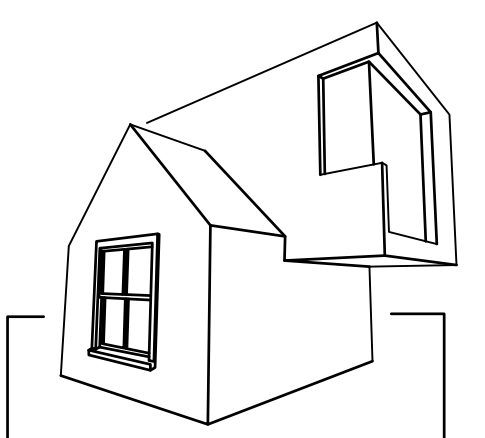
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ISSUE DATE	08/21/2020
REVISION Δ	10/15/2020
REVISION Δ	11/03/2020
REVISION Δ	12/04/2020
REVISION Δ	06/22/2021
REVISION Δ	08/05/2021
REVISION Δ	09/14/2021
REVISION Δ	10/25/2021
PROJECT No.:	2020-09

SHEET NAME:
CASEWORK SECTIONS

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

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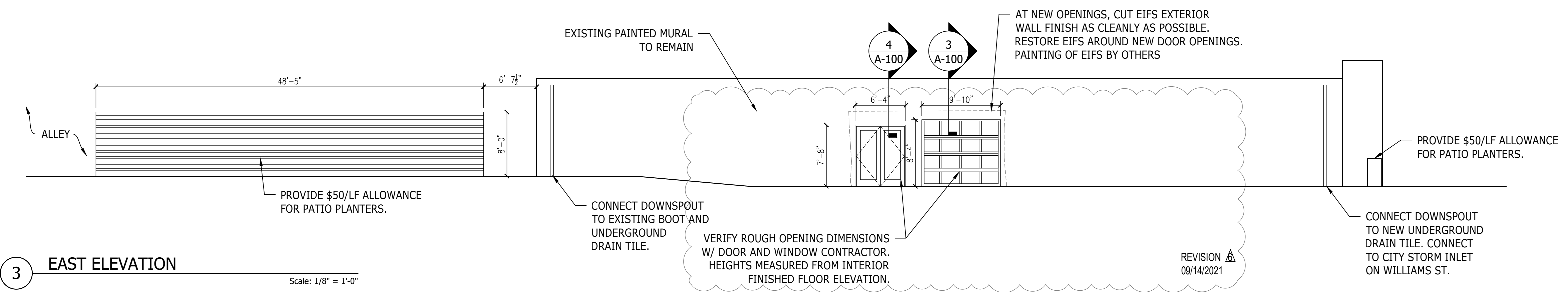
- EXTERIOR ELEVATION NOTES**
1. CONTRACTOR TO FIELD-VERIFY ALL MEASUREMENTS AND NOTIFY ARCHITECT PROMPTLY IF DISCREPANCIES ARE FOUND.
 2. COORDINATE SIGNAGE INSTALLATION AND ASSOCIATED ELECTRICAL FEED W/ OWNER AND ARCHITECT.



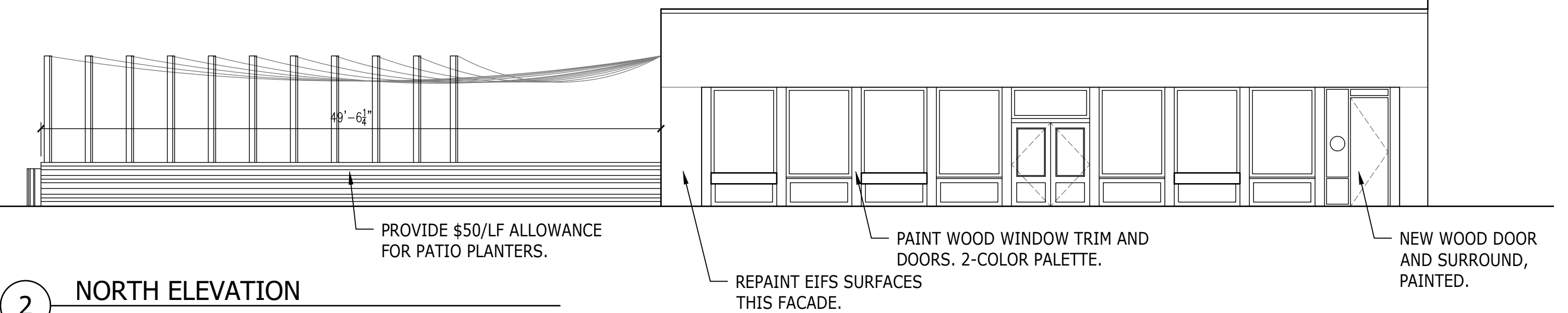
**MATTHEW SAUER
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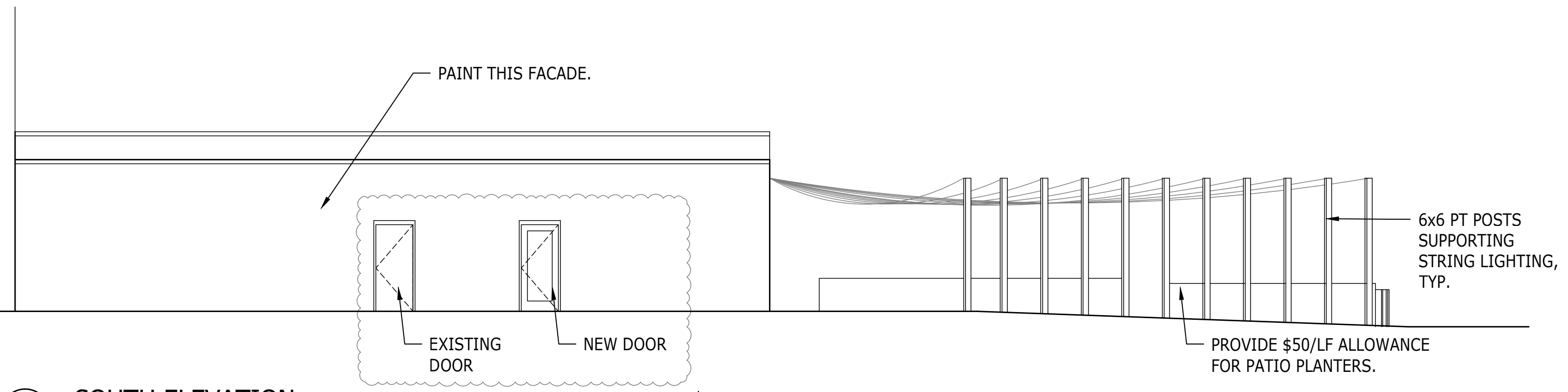
MATTHEW SAUER, LICENSE #15587
EXPIRATION DATE 12/31/2021



3 EAST ELEVATION
Scale: 1/8" = 1'-0"



2 NORTH ELEVATION
Scale: 1/8" = 1'-0"



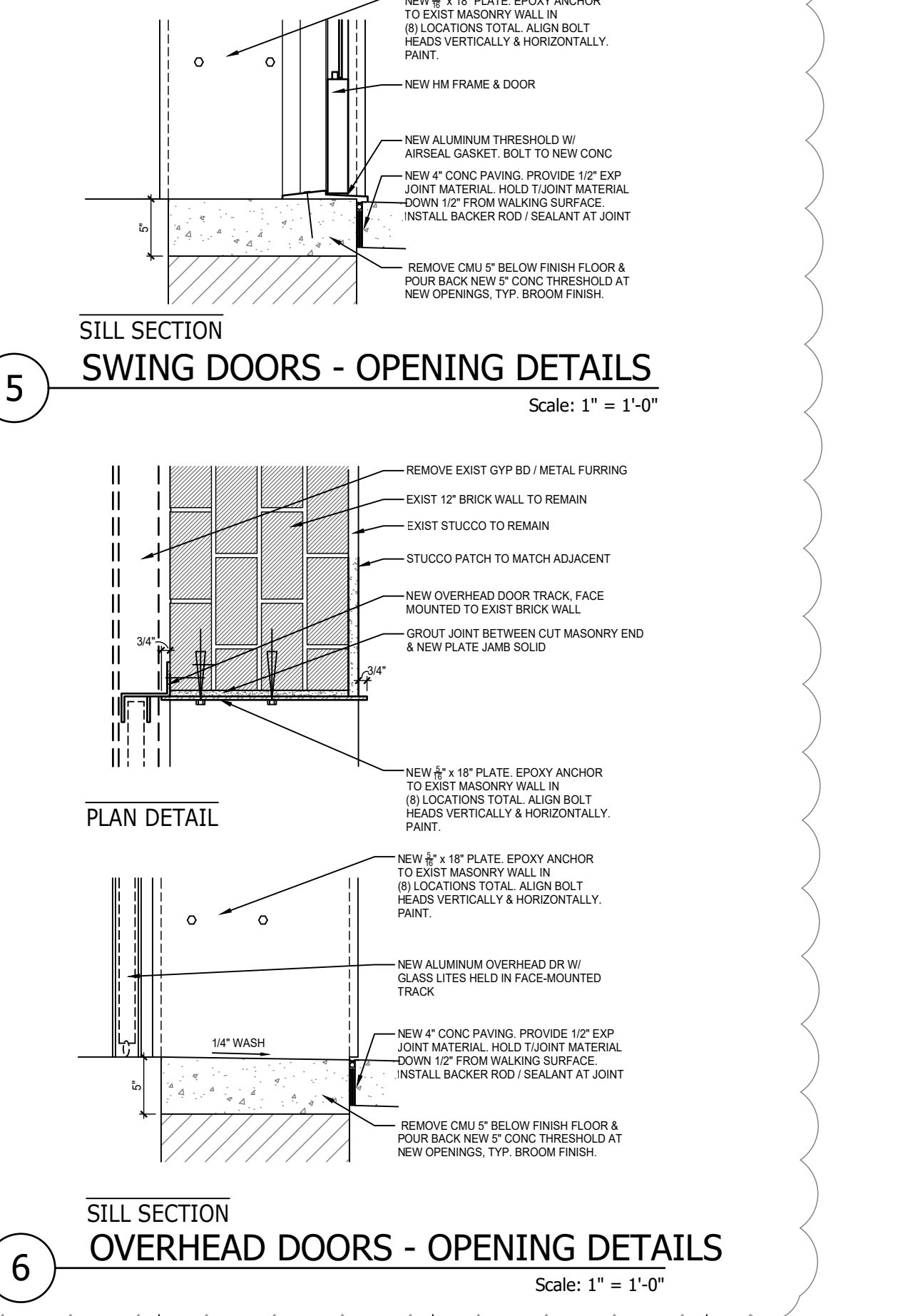
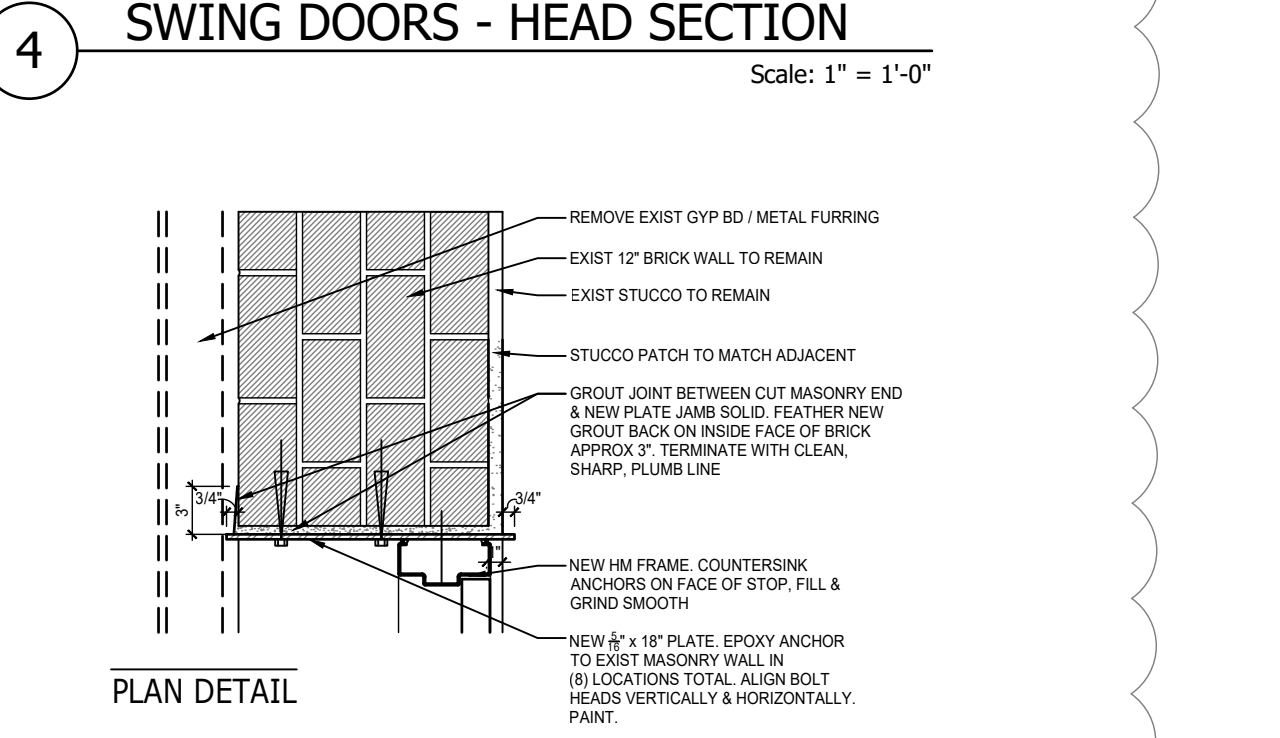
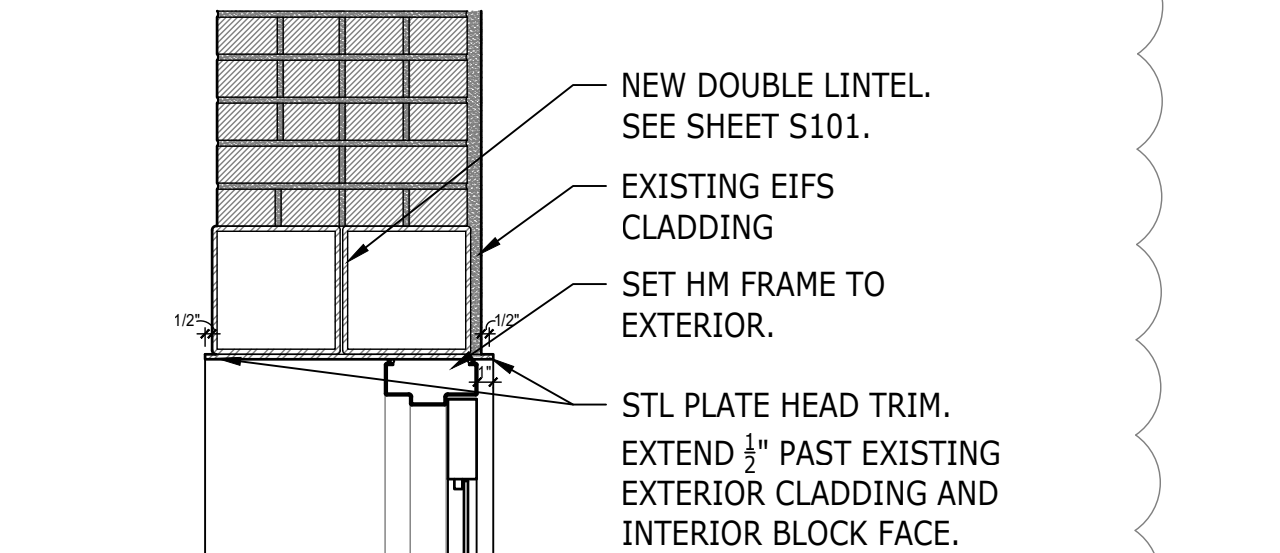
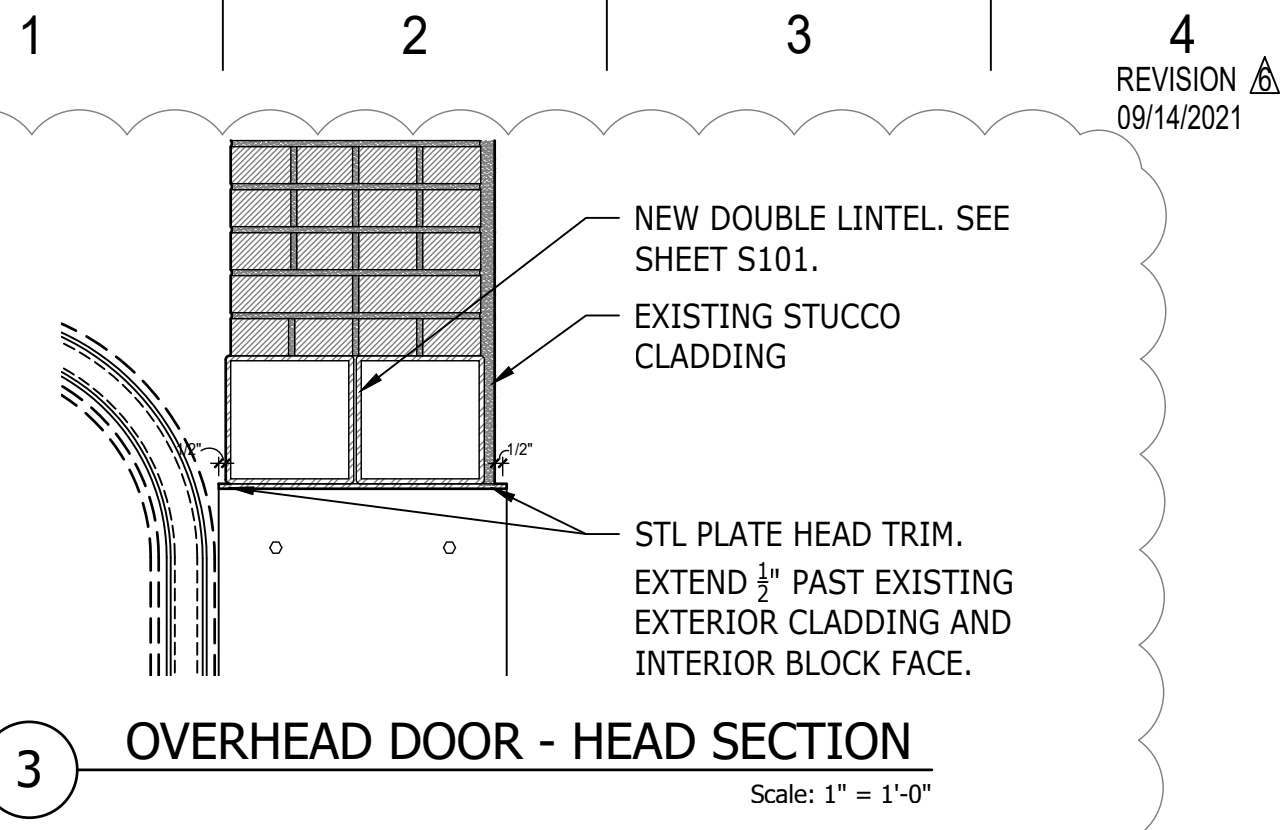
1 SOUTH ELEVATION
Scale: 1/8" = 1'-0"

WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1100 W. Third Street, Dayton, OH 45402

REVISION	DATE
ISSUE DATE	08/21/2020
REVISION A	10/15/2020
REVISION B	11/03/2020
REVISION C	12/04/2020
REVISION D	06/22/2021
REVISION E	08/05/2021
REVISION F	09/14/2021
REVISION G	10/25/2021
PROJECT No.: 2020-09	

SHEET NAME:
EXTERIOR ELEVATIONS

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

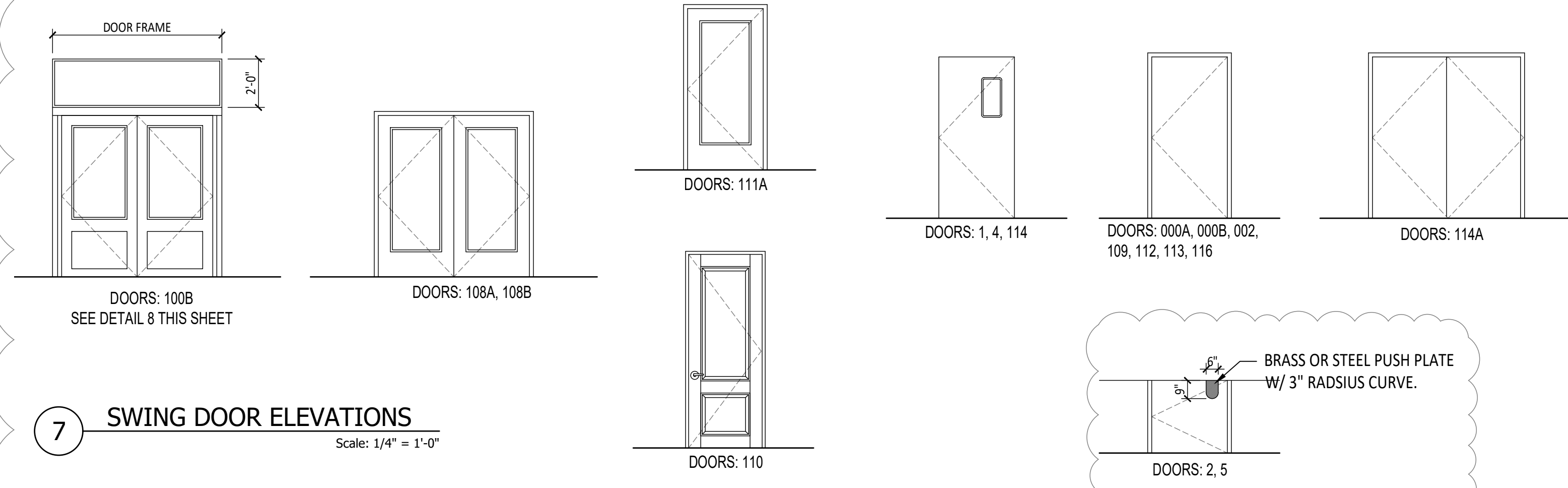


REVISION
09/14/2021

DOOR #	CONDITION	MATERIAL	FRAME MATERIAL	RATING	SIZE	HARDWARE AND OPERATION NOTES
000A	NEW	WD	HM	1-HR	36" x 84"	PANIC HARDWARE AND LATCH. CLOSER. NO LOCKING FUNCTION.
000B	NEW	WD	HM	1-HR	36" x 84"	PANIC HARDWARE AND LATCH. CLOSER. NO LOCKING FUNCTION.
002	NEW	INSUL STL	STL	--	36" x 80"	DOOR BY COOLER MANUFACTURER
003	NEW	WD	HM	--	36" x 80"	STOREROOM LOCKSET W/ LEVER HANDLE BOTH SIDES. ALWAYS FREE EGRESS FROM INSIDE.
100A	EXISTING	WD/GL	WD	--	36" x 100" PR	PANIC HARDWARE WITH LATCH. CLOSER. CAN BE DOGGED TO PREVENT INGRESS. LEVER HANDLE ON EXTERIOR SIDE. ALWAYS FREE EGRESS.
100B	NEW	WD/GL	WD	--	36" x 84" PR	PUSH BAR ON ROOM 101A SIDE. NO LATCH. CLOSER. PROVIDE PULL ON ROOM 104 SIDE. NO LOCK.
108A	NEW	HM/GL	HM	--	36" x 90" PR	VERTICAL ROD EXIT DEVICE W/ PANIC HARDWARE. CLOSER. CAN BE DOGGED TO PREVENT INGRESS. PULL HANDLE ON EXTERIOR SIDE. ALWAYS FREE EGRESS.
108B	NEW	HM/GL	HM	--	36" x 90" PR	VERTICAL ROD EXIT DEVICE W/ PANIC HARDWARE. CLOSER. CAN BE DOGGED TO PREVENT INGRESS. PULL HANDLE ON EXTERIOR SIDE. ALWAYS FREE EGRESS.
108C	NEW	AL/GL	--	--	118" x 100"	GLAZED OVERHEAD DOOR. BOTTOM OF BAR JOIST AT 10'-5" AFF. OPEN CEILING WILL REQUIRE PROVIDING ADDITIONAL SUPPORT FOR OVERHEAD TRACK.
108D	NEW	AL/GL	--	--	118" x 100"	GLAZED OVERHEAD DOOR. BOTTOM OF BAR JOIST AT 10'-5" AFF. OPEN CEILING WILL REQUIRE PROVIDING ADDITIONAL SUPPORT FOR OVERHEAD TRACK.
109	NEW	STL	HM	1-HR	36" x 80"	PANIC HARDWARE AND LATCH. CLOSER. LEVER HANDLE ON HALL 111 SIDE. CAN BE LOCKED TO PREVENT INGRESS TO BASEMENT. ALWAYS FREE EGRESS FROM I
110	NEW	WD	WD	--	36" x 96"	PANIC HARDWARE WITH LATCH. CLOSER. CAN BE DOGGED TO PREVENT INGRESS. PULL HANDLE ON EXTERIOR SIDE. ALWAYS FREE EGRESS.
111A	NEW	STL	--	--	72" x 84"	BARN DOOR ON SLIDING TRACK. NORMALLY OPEN BUT CAN BE LOCKED TO PREVENT INGRESS FROM HALL 111.
111A	NEW	HM/GL	HM	--	36" x 84"	PANIC HARDWARE WITH LATCH. CLOSER. CAN BE DOGGED TO PREVENT INGRESS. PULL ON EXTERIOR SIDE. ALWAYS FREE EGRESS.
112	NEW	WD	WD	--	36" x 84"	PULL BAR AND PUSH PLATE. CLOSER. NO LATCH.
113	NEW	WD	WD	--	36" x 84"	PULL BAR AND PUSH PLATE. CLOSER. NO LATCH.
114	NEW	AL/GL	--	--	36" x 84"	DOUBLE-ACTING DOOR WITH NO LATCHING FUNCTION.
114A	EXISTING	STL	HM	--	36" x 80"	PANIC HARDWARE WITH LATCH. CLOSER. CAN BE DOGGED TO PREVENT INGRESS. PULL HANDLE ON EXTERIOR SIDE. ALWAYS FREE EGRESS.
115A	NEW	INSUL STL	STL	--	36" x 80"	DOOR BY COOLER MANUFACTURER
115B	NEW	INSUL STL	STL	--	36" x 80"	DOOR BY COOLER MANUFACTURER
116	NEW	WD	HM	--	36" x 84"	OFFICE LOCKSET W/ LEVER HANDLE BOTH SIDES.
117	NEW	WD	HM	1-HR	36" x 84"	STOREROOM LOCKSET W/ LEVER HANDLE BOTH SIDES. ALWAYS FREE EGRESS FROM INSIDE.
1	NEW	AL/GL	--	--	36" x 84"	DOUBLE-ACTING DOOR WITH NO LATCHING FUNCTION.
2	NEW	WD	WD	--	36" x 34"	HALF-HEIGHT DOOR W/ SPRING HINGES. NO LATCH. STL PUSH PLATE WRAPPING TOP OF DOOR.
4	NEW	AL/GL	--	--	36" x 84"	DOUBLE-ACTING DOOR WITH NO LATCHING FUNCTION.
5	NEW	WD	WD	--	36" x 34"	HALF-HEIGHT DOOR W/ SPRING HINGES. NO LATCH. STL PUSH PLATE WRAPPING TOP OF DOOR.

NOTE: SEE DOOR ELEVATIONS THIS SHEET

1 DOOR SCHEDULE
Scale: NTS



7 SWING DOOR ELEVATIONS
Scale: 1/4" = 1'-0"

Room #	Room	East	West	North	South	Ceiling material	Ceiling finish / color	Floor finish	Baseboard
000	West Basement	existing to remain	existing to remain	existing to remain	existing to remain	open to structure	--	existing to remain	--
001	East Basement	existing to remain	existing to remain	existing to remain	existing to remain	open to structure	--	existing to remain	--
002	Beer Cooler	cooler wall	cooler wall	cooler wall	cooler wall	cooler ceiling	--	by cooler supplier	--
100	Vestibule	Gypsum board / P4	Gypsum board / P4	n/a	n/a	open to structure	P2	VCT-2 w/ loose walk-off mat	1x6 painted wood with beveled top edge
101	Vendor 1	FRP/Gypsum board / P4	SS / FRP/Gypsum board / P4	n/a	n/a	washable ACT	--	VCT-1 tile w/ quarry tile @ cook line	Rubber cove base
102	Vendor 2	SS / FRP/Gypsum board / P4	n/a	n/a	FRP/Gypsum board / P4	washable ACT	--	VCT-1 tile w/ quarry tile @ cook line	Rubber cove base
103	Vendor 3	SS	FRP/Gypsum board / P4	n/a	FRP/Gypsum board / P4	washable ACT	--	VCT-1 tile w/ quarry tile @ cook line	Rubber cove base
104	Vendor 4	SS	FRP/Gypsum board / P4	FRP/Gypsum board / P4	n/a	washable ACT	--	VCT-1 tile w/ quarry tile @ cook line	Rubber cove base
105	Vendor 5	SS / FRP/Gypsum board / P4	FRP/Gypsum board / P4	n/a	FRP/Gypsum board / P4	washable ACT	--	VCT-1 tile w/ quarry tile @ cook line	Rubber cove base
106	Coffee Service	n/a	n/a	n/a	n/a	Acoustical felt on plywood / gyp soffit	P2	VCT-1 tile	n/a
107	Bar	n/a	n/a	n/a	n/a	Acoustical felt on plywood / gyp soffit	P2	VCT-1 tile	n/a
108	Dining Room	paint existing walls P5 except Vendors	paint existing block P5	n/a	paint ramp wall P5	open to structure	P1	VCT-2 tile	1x6 painted wood with beveled top edge
108A	Seating Area near overhead doors ~500 SF	paint existing walls P5 except Vendors	paint existing block P5	n/a	paint ramp wall P5	open to structure	P1	VCT-1 sheet vinyl	1x6 painted wood with beveled top edge
109	Stairwell South	paint existing walls P3	paint existing walls P3	paint existing walls P3	paint existing walls P3	open to structure	P1	existing concrete finish	n/a
110	Stairwell North	Gypsum board / P5	Gypsum board / CT-X	Gypsum board / CT-X	Gypsum board / CT-X	open to structure	P1	wood treads/risers	Rubber cove base
111	Hallway	Gypsum board / P5	Gypsum board / CT-X	Gypsum board / CT-X	Gypsum board / CT-X	ACT	--	VCT-2 tile	1x6 painted wood with beveled top edge
112	Men's Restroom	Gypsum board / P4	Gypsum board / P4	Gypsum board / P4	Gypsum board / P4	ACT	--	VCT-2 tile	Rubber cove base
113	Women's Restroom	Gypsum board / P4	Gypsum board / P4	Gypsum board / P4	Gypsum board / P4	ACT	--	VCT-2 tile	Rubber cove base
114	Dishwash & Storage	Gypsum board / P3	Gypsum board / P3	Gypsum board / P3	Gypsum board / P3	washable ACT	--	VCT-1 tile	Rubber cove base
115	Walk-In Cooler	cooler wall	cooler wall	cooler wall	cooler wall	cooler ceiling	--	by cooler supplier	--
116	Office	Gypsum board / P3	Gypsum board / P3	Gypsum board / P3	Gypsum board / P3	ACT	--	VCT-1 tile	Rubber cove base

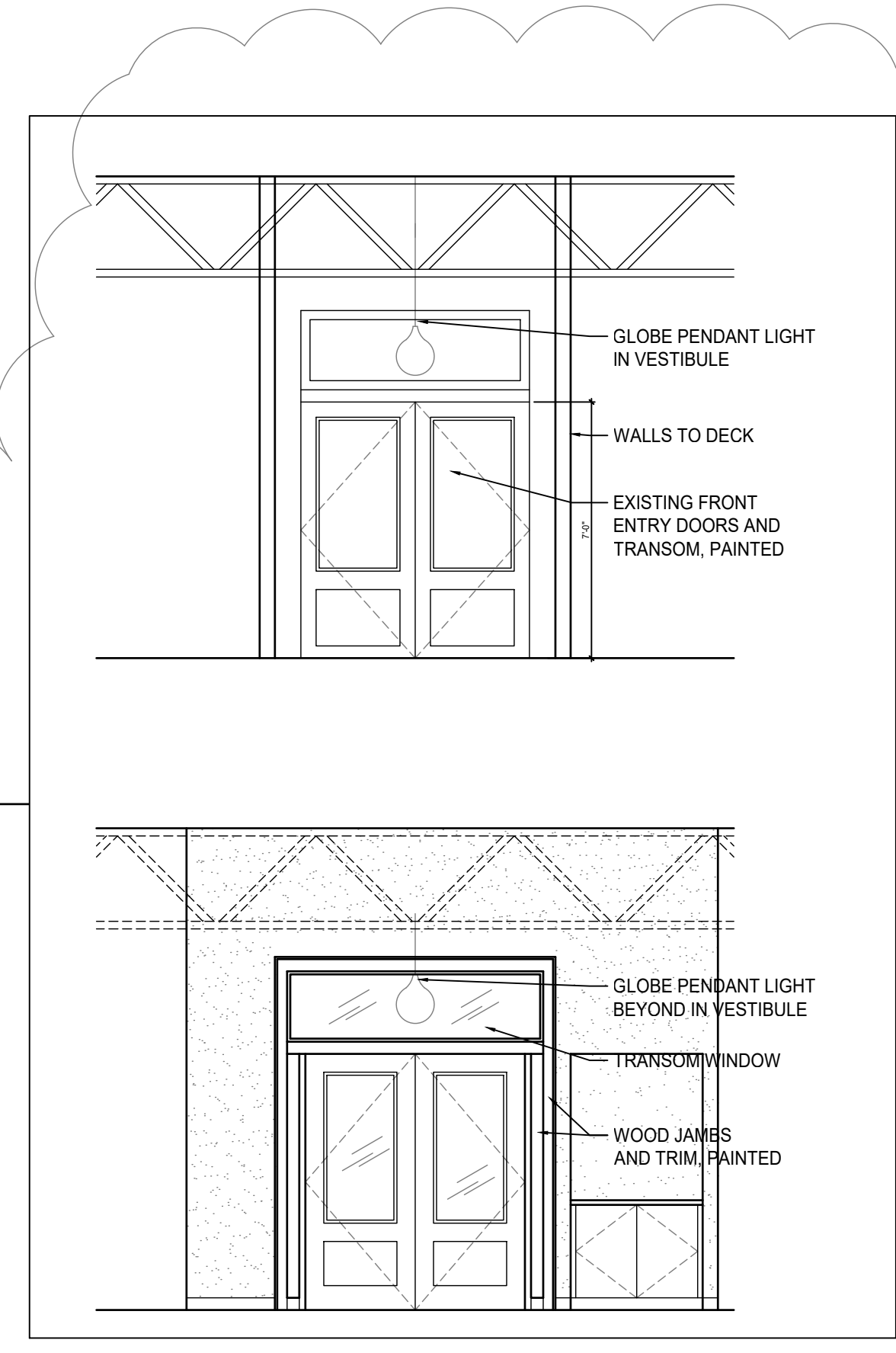
FRP - Fiberglass reinforced polymer sheets
SS - Stainless steel sheet

P1 - ceiling paint (exposed deck and joists)
P2 - ceiling paint (for gypsum ceilings)
P3 - color #1
P4 - color #2
P5 - color #3

2 FINISH SCHEDULE
Scale: NTS

REVISION
09/14/2021

- DOOR NOTES
- CONTRACTOR TO FIELD-VERIFY ALL MEASUREMENTS AND NOTIFY ARCHITECT PROMPTLY IF DISCREPANCIES ARE FOUND.
 - PROVIDE \$1,500 ALLOWANCE FOR SLIDING DOOR 111 (LEAF ONLY - INCLUDE BARN DOOR HARDWARE AND LOCKING FUNCTION IN PRICING.)
 - SEE EXTERIOR ELEVATIONS FOR DOOR ELEVATIONS.



8 DOOR 100B SURROUND ELEVATIONS
Scale: 1/4" = 1'-0"

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REVISION
12/04/2020

WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1100 W. Third Street, Dayton, OH 45402

REVISION	DATE
ISSUE DATE	08/21/2020
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REVISION	12/04/2020
REVISION	06/22/2021
REVISION	08/05/2021
REVISION	09/14/2021
REVISION	10/25/2021

PROJECT No.:
2020-09

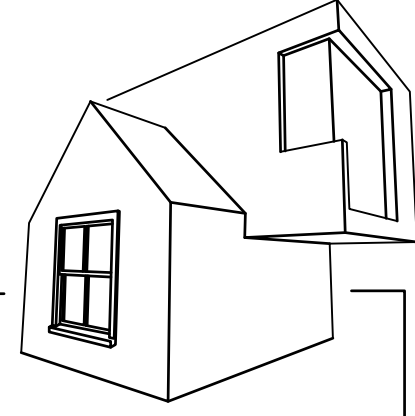
SHEET NAME:
DOOR AND FINISH SCHEDULES

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REVISION
06/22/2021

- INTERIOR ELEVATION NOTES**
1. CONTRACTOR TO FIELD-VERIFY ALL MEASUREMENTS AND NOTIFY ARCHITECT PROMPTLY IF DISCREPANCIES ARE FOUND.
 2. COORDINATE CASEWORK W/ ELECTRICAL CONTRACTOR AND THE INSTALLATION OF LED WALL WASH STRIPS BELOW COUNTERS.
 3. COORDINATE CEILING GRID AND SUSPENDED FINISHES W/ ELECTRICAL CONTRACTOR INSTALL OF PENDANT AND OTHER CEILING-HUNG OR -MOUNTED FIXTURES.



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EXPIRATION DATE 12/31/2021



- LED LIGHTING BAND
- REVISION 06/22/2021 SOFFIT - SEE A-602
- CONTRASTING MATERIAL AT RAISED SEATING COUNTER
- CONTRASTING MATERIAL AT ORDER COUNTER

- ACOUSTIC SOFFIT
- INSET MESH CEILING
- BACK BAR TV DISPLAYS
- SUBWAY TILE-LOOK FRP TO 8' AFF

3 INTERIOR VIEW - BAR AND VENDOR 4
Scale: NTS



- LED LIGHTING BAND
- REVISION 06/22/2021 SEE SOFFIT DETAILS A-602
- TV AND MENU DISPLAYS

- PLAM CASEWORK FACE
- SUBWAY TILE-LOOK FRP TO 8' AFF
- CONTRASTING MATERIAL AT ORDER COUNTER
- CONTRASTING MATERIAL @ RAISED ORDER COUNTER

2 INTERIOR VIEW - BAR AND VENDOR 3
Scale: NTS



- LED LIGHTING BAND
- REVISION 06/22/2021 SOFFIT - SEE A-602
- 1x4 CERAMIC TILE FACE @ ORDER COUNTER
- PLAM CABINET FACES @ BUILT-IN TRASH RECEPTACLE CASEWORK AND SEATING
- REVISION 09/14/2021 SUBWAY TILE -LOOK FRP ON VENDOR KITCHEN WALLS TO 8' AFF

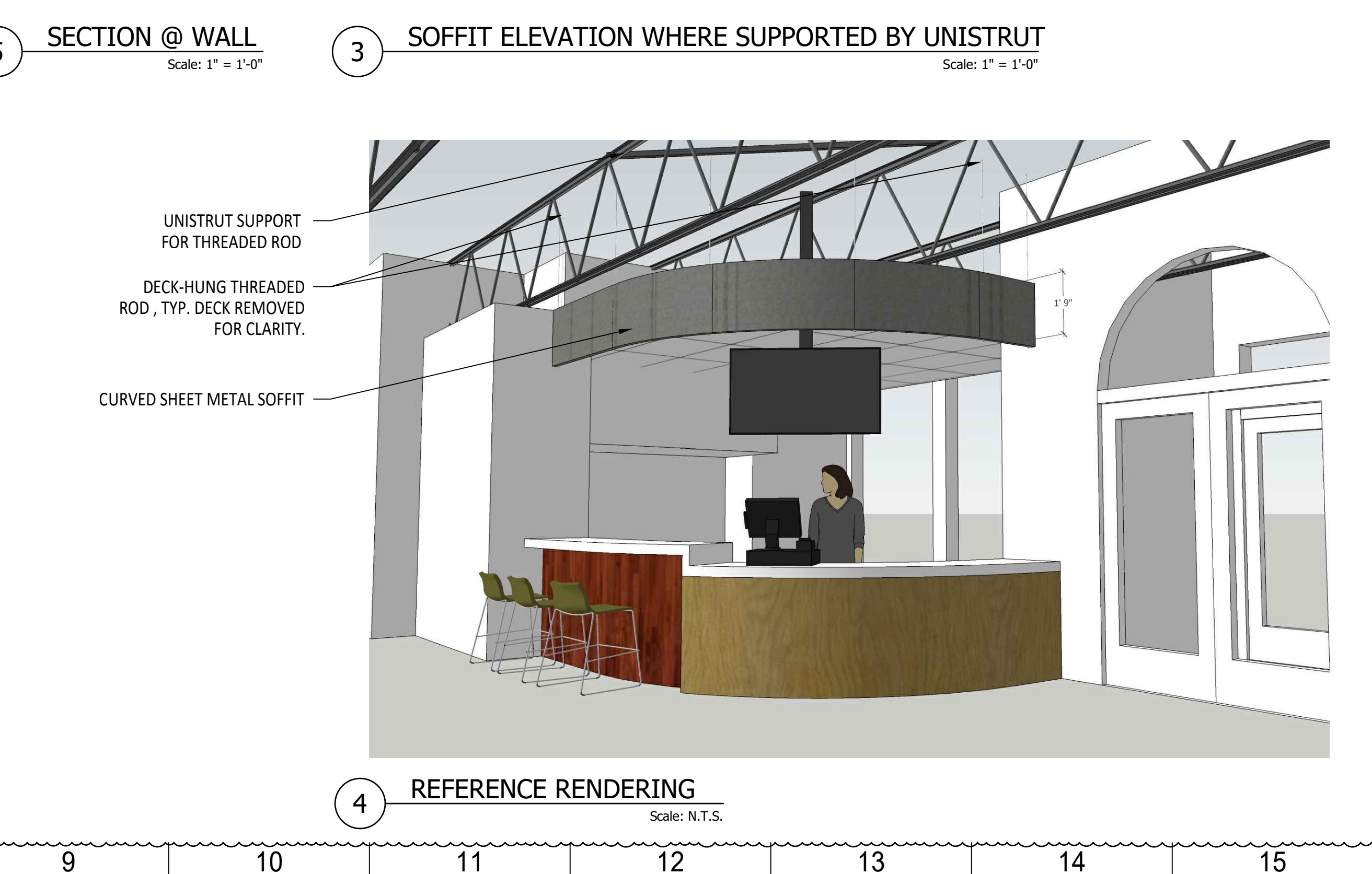
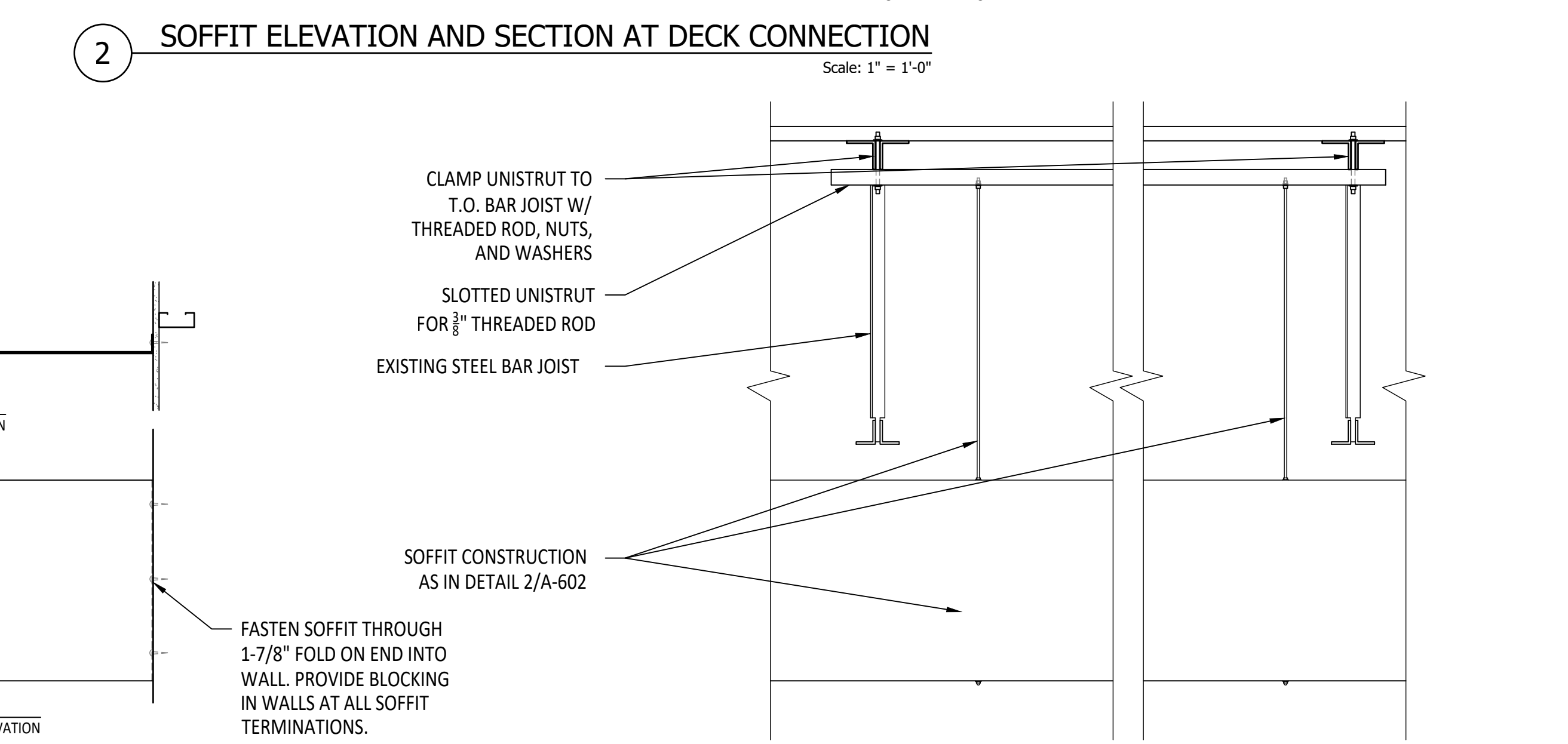
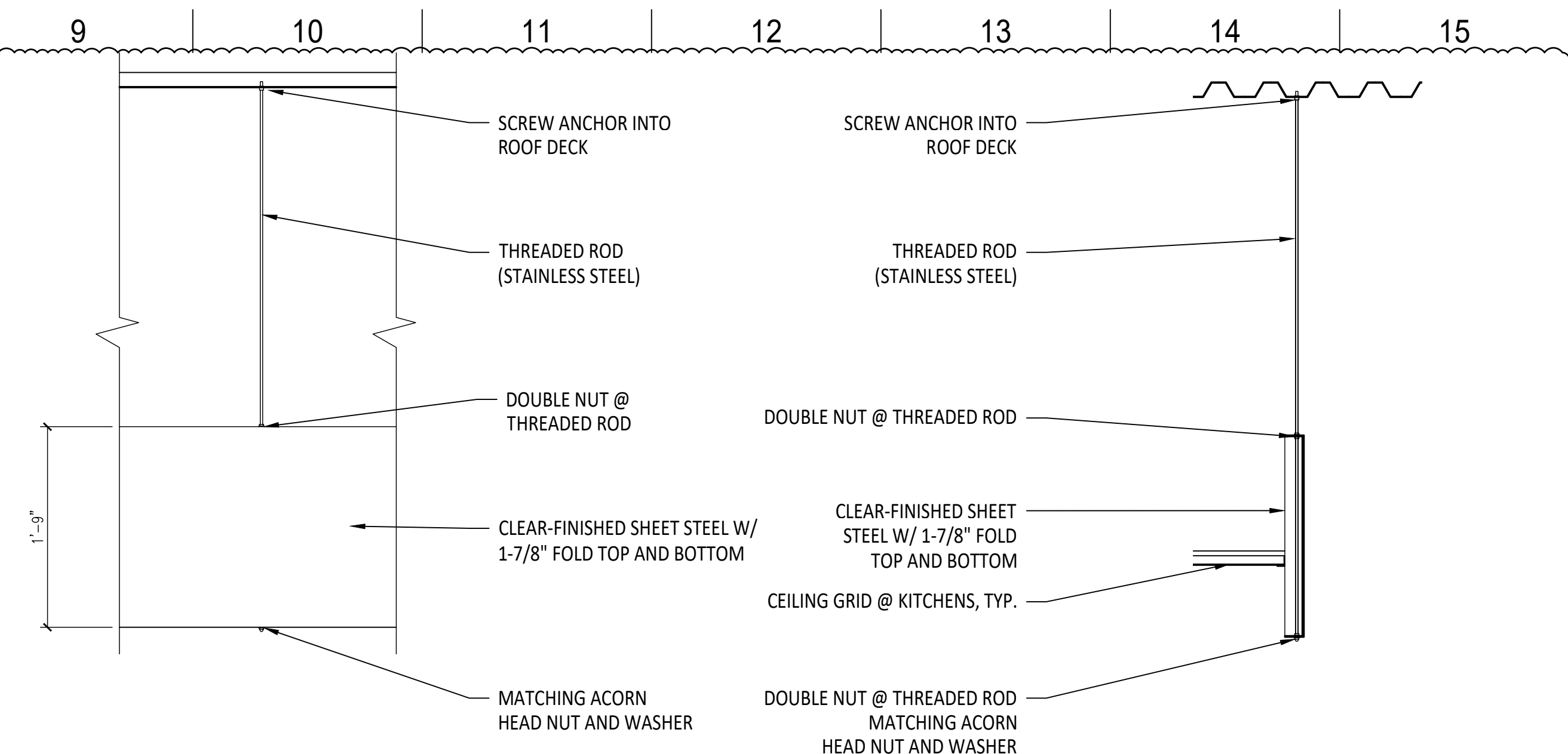
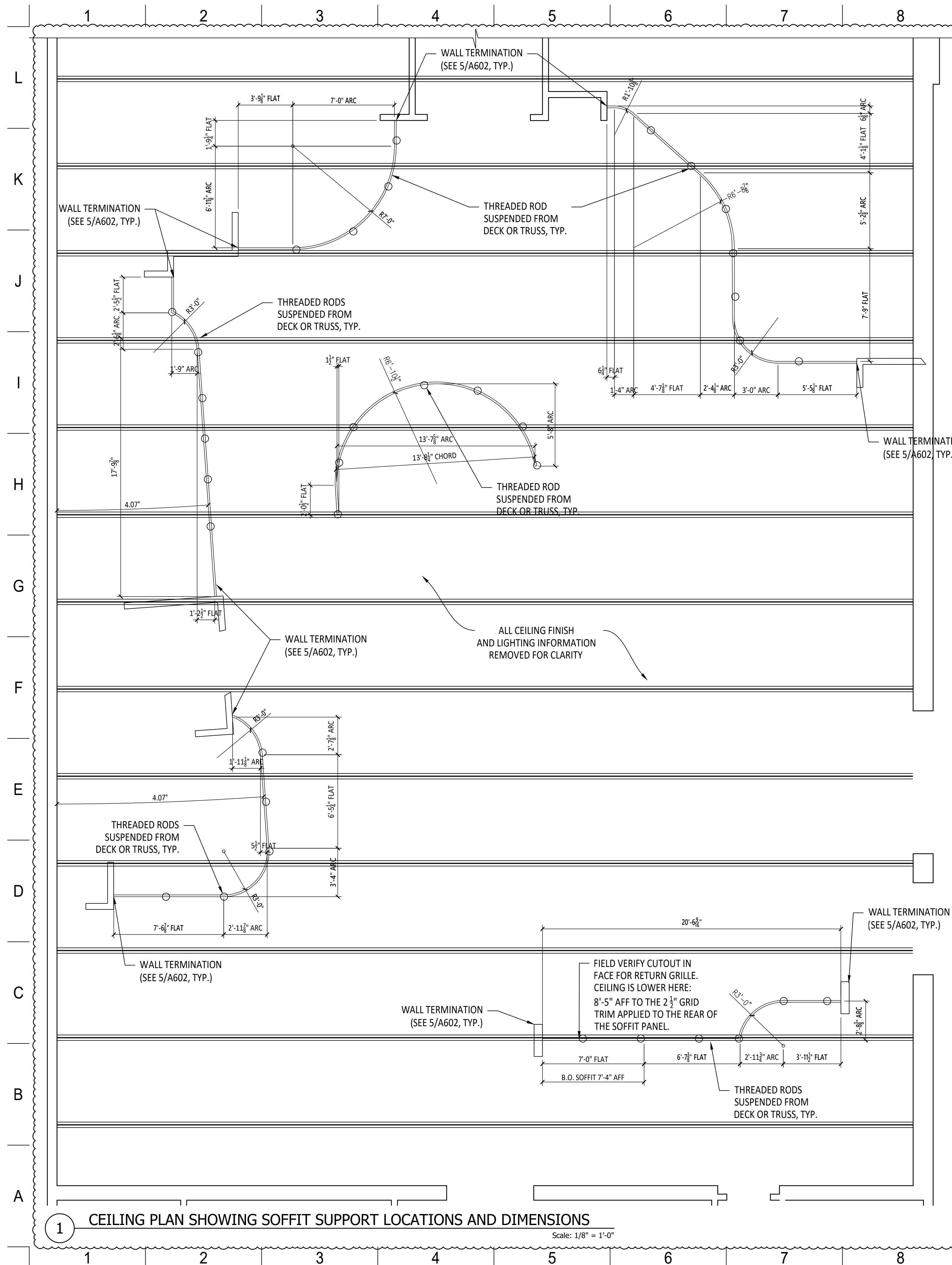
1 INTERIOR VIEW - VENDOR 5 AND BOOTH SEATING
Scale: NTS

REVISION	DATE
ISSUE DATE	08/21/2020
REVISION	10/15/2020
REVISION	11/03/2020
REVISION	12/04/2020
REVISION	06/22/2021
REVISION	08/05/2021
REVISION	09/14/2021
REVISION	10/25/2021
PROJECT No.:	2020-09

SHEET NAME:
FINISH DETAILS

WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1100 W. Third Street, Dayton, OH 45402

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15



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REVISIONS
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WEST SOCIAL FOOD HALL
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ISSUE DATE	05/18/2021
REVISIONS Δ	09/14/2021
REVISIONS Δ	10/25/2021

PROJECT No.:
 2020-09

SHEET NAME:
 SOFFIT DETAILS

DESIGN CRITERIA NOTES

REFERENCED DESIGN CODE: OHIO BUILDING CODE (2017)

ENVIRONMENTAL LOADS:
 ROOF SNOW LOAD:
 GROUND SNOW LOAD, P = 20 PSF
 FLAT ROOF SNOW LOAD, P = 25 PSF
 SNOW EXPOSURE FACTOR, C = 1.0
 SNOW LOAD IMPORTANCE FACTOR, I = 1.0
 THERMAL FACTOR, C = 1.0

WIND LOAD:
 BASIC WIND SPEED (3 SECOND GUST) = 115 MPH
 RISK CATEGORY = II
 WIND EXPOSURE = B
 INTERNAL PRESSURE COEFFICIENT = 0.18
 COMPONENT AND CLADDING TO BE USED FOR ALL ITEMS NOT SPECIFICALLY DESIGNED BY ENGINEER OF RECORD (E.O.R. SERVICE)
 ROOFS = +1-10 PSF (ALL ZONES)
 (EFFECTIVE WIND AREA OF 0.8 - 1.35)

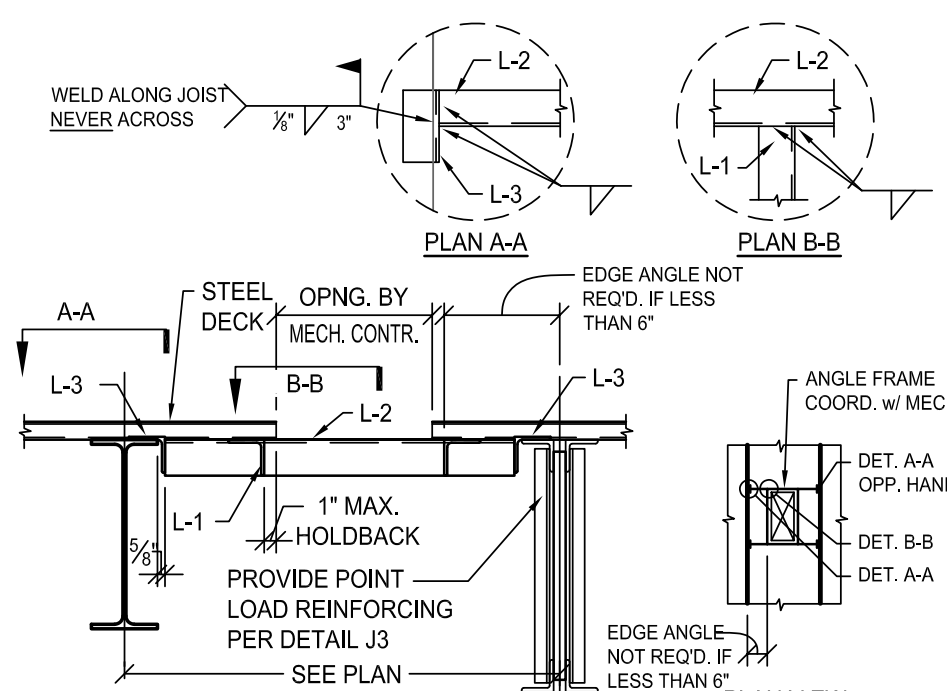
EARTHQUAKE LOAD:
 SEISMIC IMPORTANCE FACTOR, I = 1.0
 MAPPED SPECTRAL ACCELERATION, S_a = 0.152g ; S_v = 0.072g
 SITE CLASS, D (ASSUMED)
 DESIGN SPECTRAL ACCELERATION, S_d = 0.162g, S₀ = 0.115g
 SEISMIC DESIGN CATEGORY, SDC = B
 BASIC SEISMIC FORCE-RESISTING SYSTEM (RESPONSE MODIFICATION FACTOR) =
 [REFERENCE: ASCE 7-10 TABLE 12.2-1]
 SEISMIC RESPONSE COEFFICIENT, C_s = 0.054
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE

DESIGN UNIFORM LOADS:

ROOF LIVE LOAD: 20 PSF (MINIMUM PER OBC SECTION 1607.12.2.1)

GENERAL STRUCTURAL NOTES

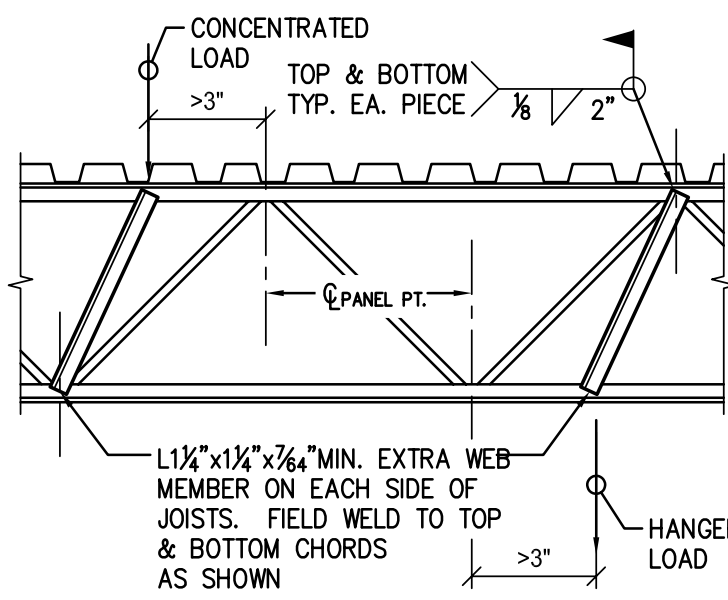
- GENERAL (ALL TRADES)**
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY CONDITIONS SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN TO THE ENGINEER.
 - STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
 - THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - SHIEL & MEYER ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK.
- DIVISION 5 - METALS**
- STRUCTURAL STEEL NOTES**
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC RECOMMENDATIONS AND CONFORM TO ANSIA/ANSI 300-10 AND AISC 303-10 INCLUDED IN THE 16TH EDITION OF THE "STEEL CONSTRUCTION MANUAL".
 - STEEL FABRICATORS SHALL BE AN AISC CERTIFIED SHOP AND SHALL SATISFY GENERAL (ALL TRADES) NOTE 1. OTHERWISE SHOP SPECIAL INSPECTIONS WILL BE REQUIRED.
 - UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS:
 WIDE FLANGE SECTIONS, AND TEES ASTM A992 (50 KSI)
 STRUCTURAL HSS TUBING/AS400 Gr. C (50 KSI)
 STEEL PIPE, A500 Gr. C (48 KSI)
 OTHER ROLLED PLATES/SHAPES A36 (36 KSI)
 - UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 1/2" FILLET WELDS PER AISC REQUIREMENTS. TYPICAL LINTELS FOR MASONRY OPENINGS SHALL BE AS FOLLOWS, U.N.O. ON PLANS:
 L3/2x3 1/2x5/16 ANGLES, L.V., EACH 4" WALL WIDTH, 4'-0" OPENINGS OR LESS (8" MINIMUM END BEARING, TYP. EACH END)
 W8x18 WITH 5/16" PLATE CONTINUOUS (EXTEND PLATE TO END OF BEAM), 6'-9" TO 12'-0" CHU OPENINGS, 12" MIN. BRG. E.E.
 UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING ALL BRICK SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A593.
 - COORDINATE ALL ROOF AND FLOOR OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FRAME OPENINGS WITH L3x3x1/4" ANGLES TYPICAL U.N.O. CONTRACTOR TO VERIFY UNIT SIZES, WEIGHTS AND LOCATIONS BEFORE ERECTION.



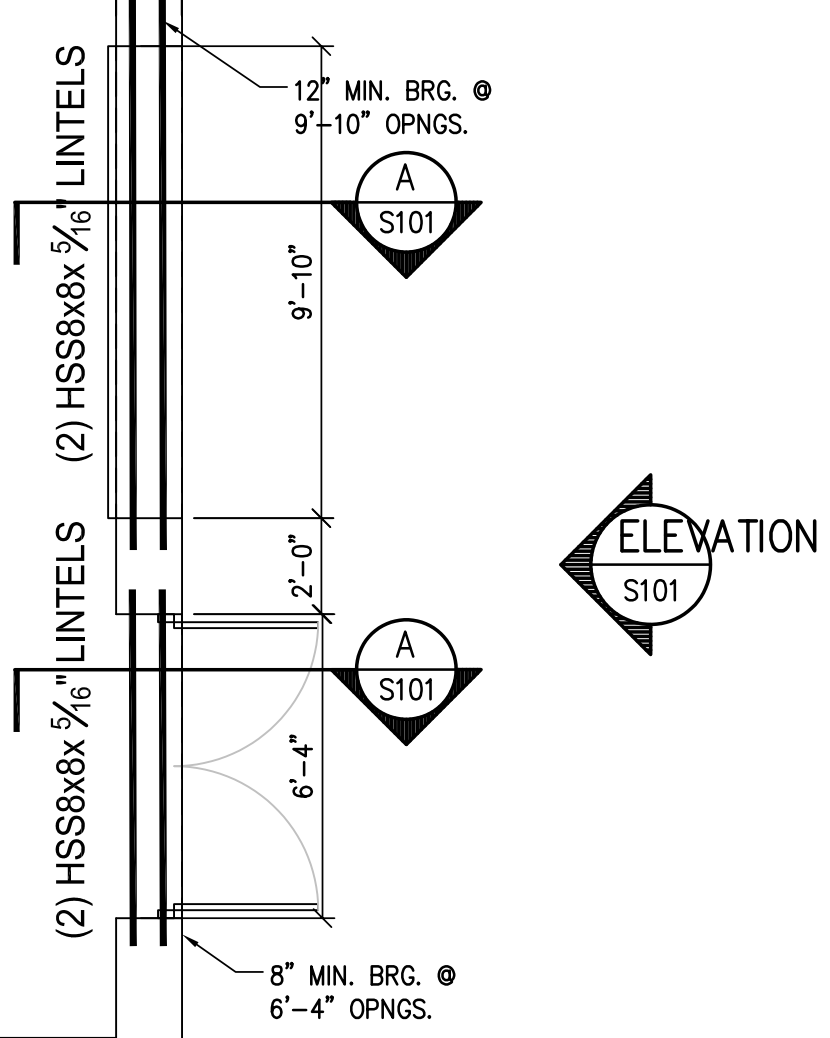
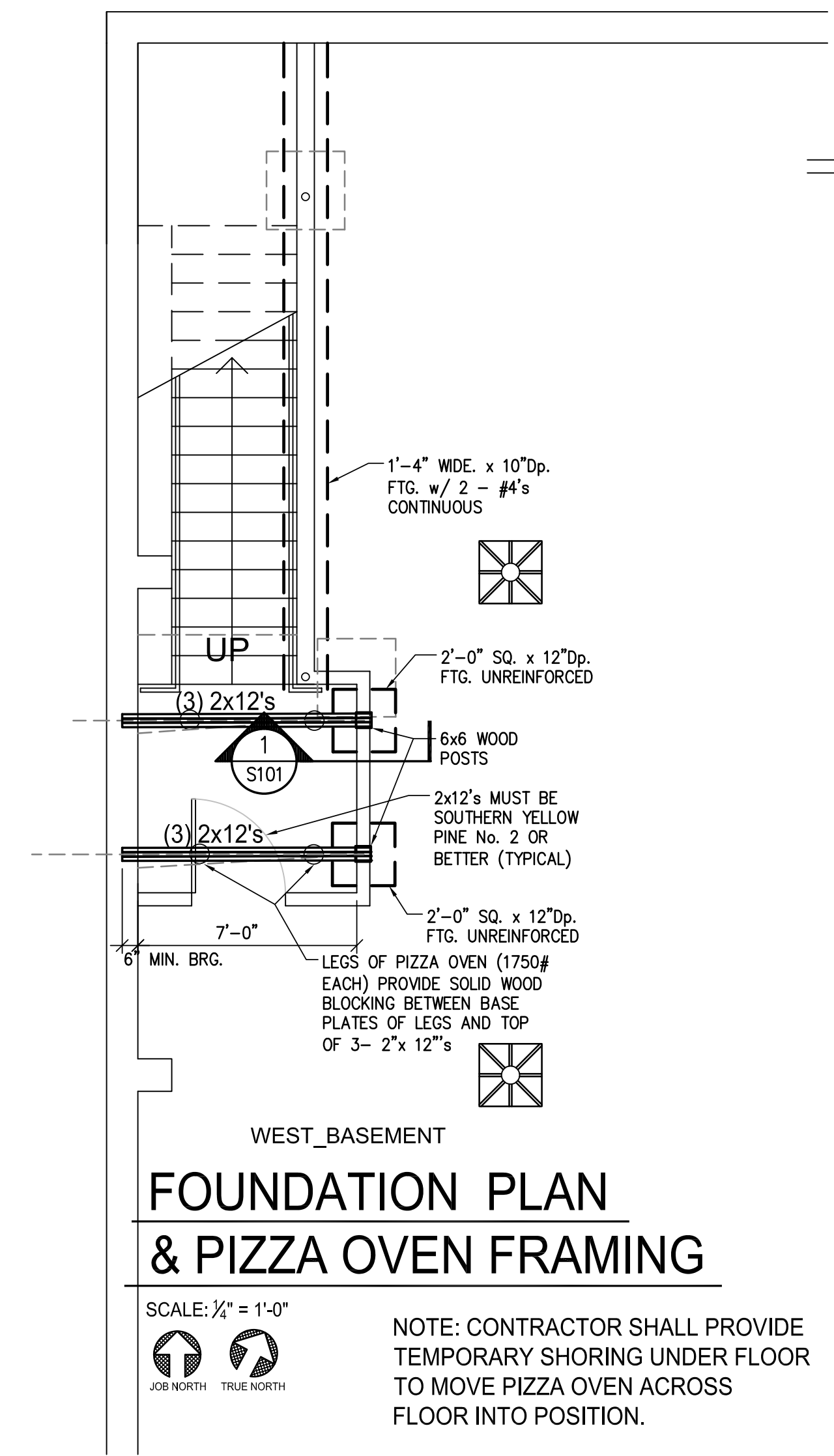
MEMBER	SIZE
L-1	L3x3x1/4"
L-2	L3x3x1/4"
L-3	L3x3x1/4" x 0'-6" LONG

- NOTES:**
- ALL WELDS 1/2" FILLET, U.N.O.
 - DECK TO BE FASTENED TO ANGLE FRAME
 - INCREASE HOLDBACK DIM. IF FIREPROOFING IS REQ'D.
- NOTE: OPTION TO ANGLE FRAMES IS CHICAGO CLAMP SYSTEM.
 WWW.CHICAGOCLAMPCOMPANY.COM

SD11 STEEL DECK SUPPORT AT OPENINGS
 ROOF DECK BETWEEN JOISTS OR BEAMS
 SCALE: NTS

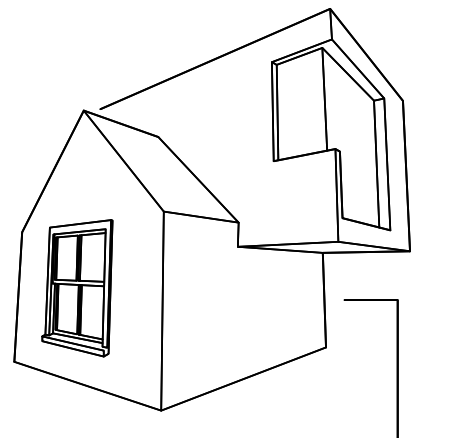
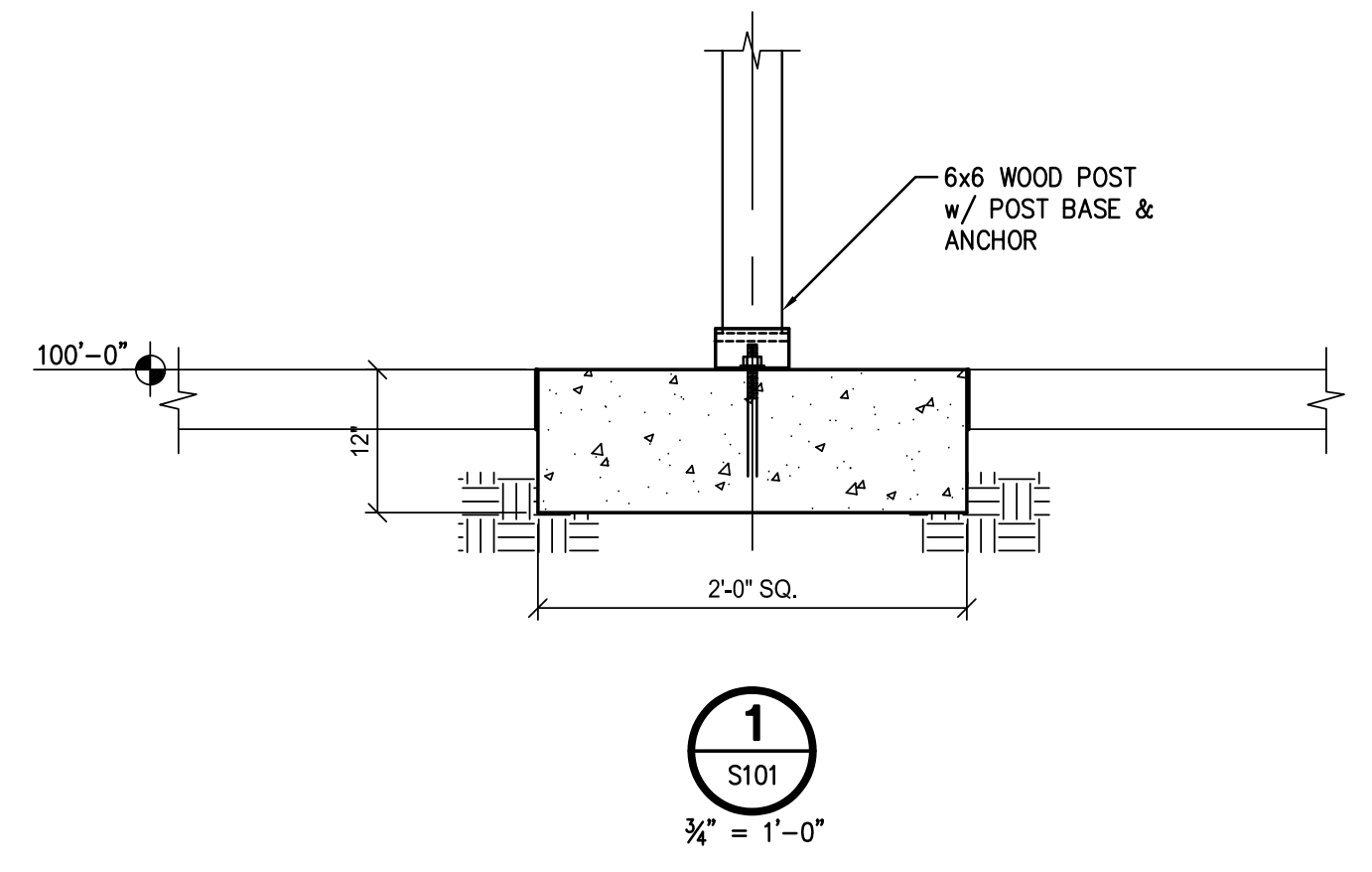
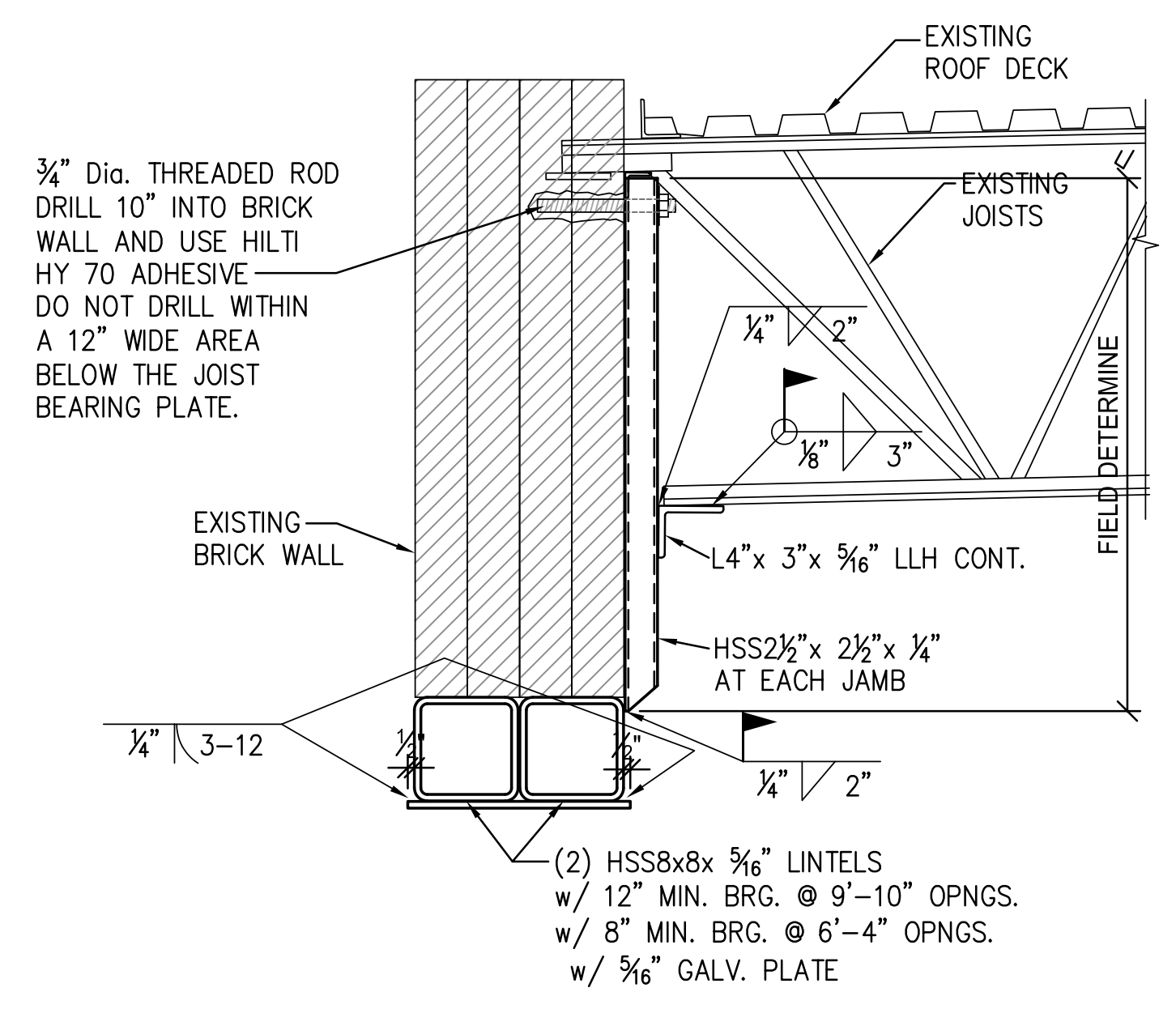
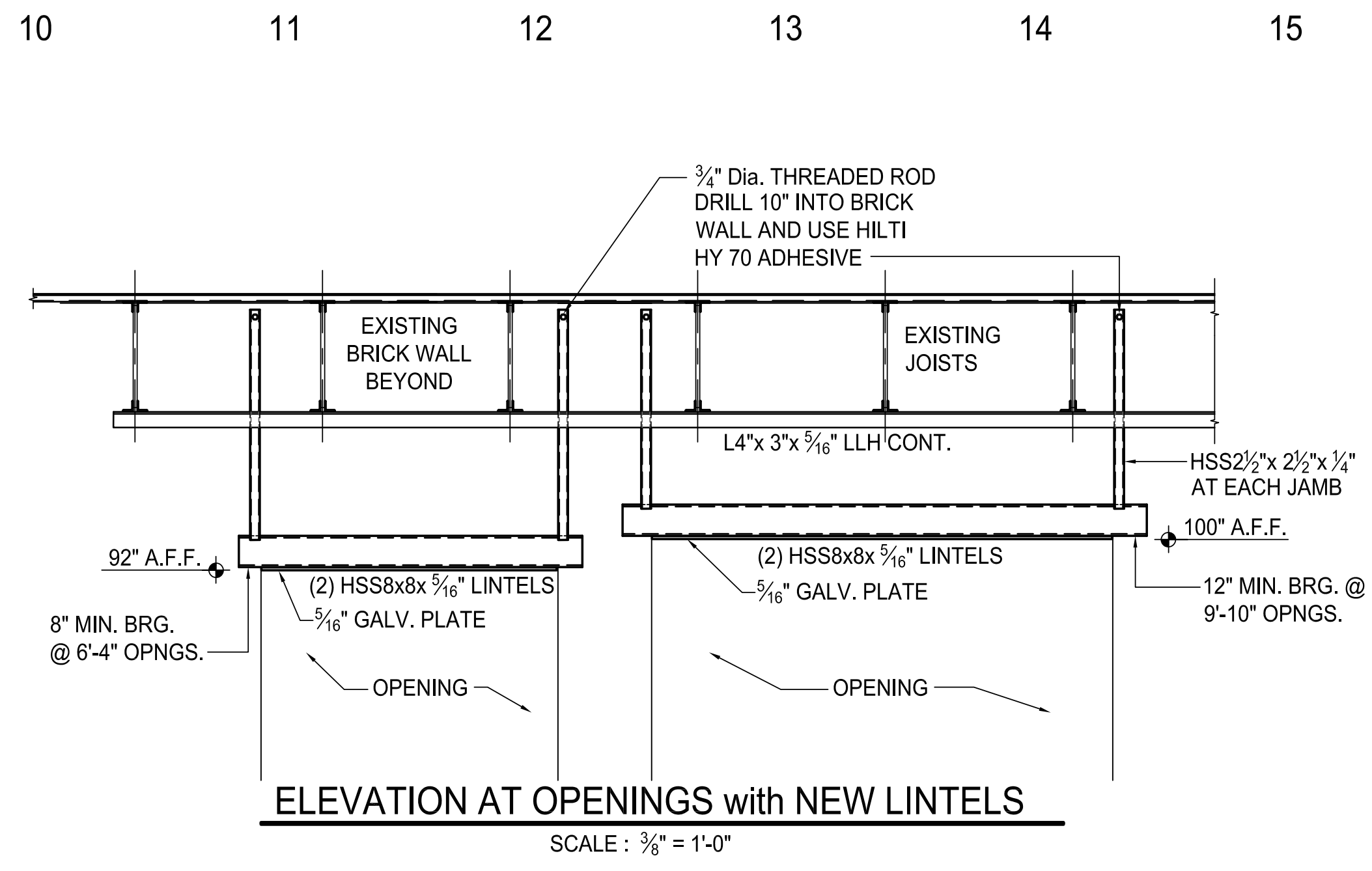


J3 JOIST REINFORCING DETAIL
 N.T.S.
 NOTE: REINFORCING REQUIRED IN ADDITION TO ALL STANDARD S.J.I. SPECIFICATIONS.

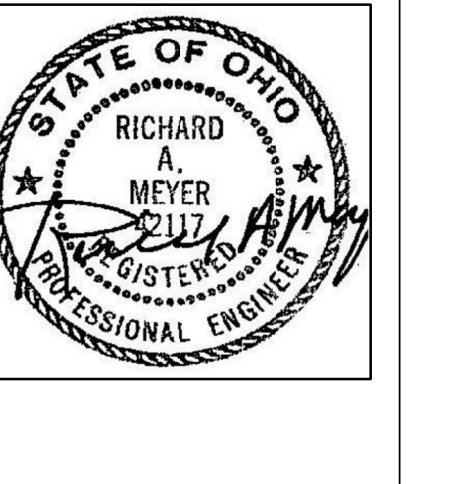


LINTEL PLAN
 SCALE: 1/4" = 1'-0"

JOB NORTH TRUE NORTH



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 matthewsauer@gmail.com
 937.985.3801



WEST SOCIAL FOOD HALL
 1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
 1100 W. Third Street, Dayton, OH 45402

REVISION	DATE
ISSUE DATE	09/14/2021

PROJECT No.:
 2020-09
 SMA 21.200.170

SHEET NAME:
 STRUCTURAL FRAMING PLAN

L
K
J
I
H
G
F
E
D
C
B
A

FIXTURE SCHEDULE

ITEM	GENERAL DESCRIPTION	MOUNTING HEIGHT	SUPPLY PIPING			WASTE & VENT PIPING			FIXTURE		SUPPLY TRIM		WASTE TRIM		TRAP/FIX. DR.		SUPPLY STOP		ACCESS/MISC.		CARRIER		NOTES	
			COLD	HOT	TEMPERED	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	VENT - MINIMUM SIZE	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.		
WC1	FLOOR SET / TANK TYPE	15" RIM	1/2"	1/2"	1/2"	4"	INT	4"	4"	A	211CA.004	A	UNIT	-	-	A	UNIT	E	ZH8823-CR-LK	H	95-SS	-	3	
WC2	FLOOR SET / TANK TYPE / A.D.A.	17" RIM	1/2"	1/2"	1/2"	4"	INT	4"	4"	A	211AA.004	A	UNIT	-	-	A	UNIT	E	ZH8823-CR-LK	H	95-SS	-	3	
UR1	WALL HUNG / FLUSH VALVE	24" LIP	1/2"	1/2"	1/2"	2"	INT	2"	2"	A	6550.001	C	186-1.0	-	-	A	UNIT	-	-	-	-	K	Z-1222	-
UR2	WALL HUNG / FLUSH VALVE / A.D.A.	17" LIP	1/2"	1/2"	1/2"	2"	INT	2"	2"	A	6550.001	C	186-1.0	-	-	A	UNIT	-	-	-	-	K	Z-1222	-
LAV1	COUNTERTOP / VITREOUS CHINA 20"x17" / SINGLE LEVER	-	1/2"	1/2"	1/2"	1 1/4"	INT	1 1/4"	1 1/4"	A	0476.028	D	1480.100	G	155A	G	8872	E	ZH8823-LR-LK	J	LFUSC-B-M1	-	2,3,4	
MB1	FLOOR SET / MOLDED STONE 24"x24"x10"	36" TO FAUCET	1/2"	1/2"	1/2"	3"	3"	3"	3"	B	MSB-2424	E	Z-841M1-RC	B	UNIT	-	P-TRAP	E	UNIT	B	832AA, 889CC & E77AA	-	-	
WH1	WALL MOUNT / NON-FREEZE / VACUUM BREAKER	24" A.F.G.	1/2"	1/2"	1/2"	-	-	-	-	-	-	F	17	-	-	-	-	-	-	-	-	-	-	

ITEM PREFIXES:
 WC - WATER CLOSET
 UR - URINAL
 LAV - LAVATORY
 MB - MOP BASIN
 LI - LAUNDRY TUB
 WCB - WASHER CONN. BOX
 MCB - ICE MAKER CONN. BOX
 ESEW - EMER. SHWR./EYEWASH
 SK - SINK
 EWC - ELEC. WATER COOLER
 SH - SHOWER
 BA - BATHTUB
 WH - WALL HYDRANT
 HB - HOSE BIBB

NOTES:
 1. STANDARD FINISH IS PLATINUM VINYL.
 2. PROVIDE 0.5 GPM FLOW CONTROL DEVICE ON LAVATORY FAUCET.
 3. PROVIDE CHROME PLATED ESCUTCHEONS AND NIPPLES TO WALL.
 4. PROVIDE "TRUEBRO" LAV GUARD INSULATION KIT, MODEL #102 E-2 (WHITE) OR APPROVED EQUAL.

MANUFACTURER LISTED FIRST IS BASIS OF DESIGN (EQUAL MANUFACTURERS ARE LISTED IN PARENTHESIS)
 A. AMERICAN STANDARD (KOHLER, CRANE) E. ZURN (CHICAGO, T&S BRASS) J. WATTS (POWERS, SYMMONS)
 B. STERN-WILLIAMS (FIAT) FIAT (MUSTEE) F. WOODFORD (SMITH, ZURN) K. ZURN (SMITH, WATTS)
 C. SLOAN "REGAL XL" (ZURN "6000XL") G. MCGUIRE (ENGINEERED BRASS, ZURN) L. _____
 D. AMERICAN STANDARD (CHICAGO, ZURN) H. OLSONITE (BEMIS, BENEKE, CENTOCO, CHURCH) M. _____

BACKROOM EQUIPMENT SCHEDULE

ITEM	GENERAL DESCRIPTION	SUPPLY PIPING			WASTE & VENT PIPING			WASTE SYSTEM		NOTES
		COLD	HOT (120 DEGREE)	HOT (140 DEGREE)	GAS	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	
K1	HAND SINK	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
K2	THREE COMPARTMENT SINK	1/2"	1/2"	1/2"	1/2"	2"	2"	2"	2"	1
K3	DISHWASHER (HOT WATER FROM BOOSTER HEATER)	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1

CONTRACTOR RESPONSIBILITIES:
 1. PROVIDE ALL SUPPLY & WASTE ROUGH-INS.
 2. INSTALL ALL "LOOSE" SUPPLY & WASTE TRIM.
 3. PROVIDE ALL NECESSARY SUPPLY STOPS, TRAPS, FIXTURE DRAINS, CONTINUOUS WASTE & INDIRECT WASTE.
 4. MAKE ALL FINAL CONNECTIONS.

DRAIN SCHEDULE

ITEM	MANUFACTURER (OR APPROVED EQUAL)	TYPE	BODY	OUTLET	STRAINER/GRATE	TOP FINISH		ADDITIONAL FEATURES		NOTES
						SIZE	ADJUSTABLE	ANCHOR FLANGE	FLASHING CLAMP	
FD1	ZURN (OR APPROVED EQUAL)	FLOOR	CAST IRON	4"	6" RD	1	1	1	1	1
FD2	ZURN (OR APPROVED EQUAL)	ROOF	CAST IRON	3"	7" RD	1	1	1	1	1
FS1	ZURN (OR APPROVED EQUAL)	AREAWAY	STAINLESS STEEL	3"	12" SQ	1	1	1	1	1

NOTES:
 1. PROVIDE INLINE TRAP SEALER, SURE SEAL #SS3000V OR APPROVED EQUAL, TO OUTLET OF DRAIN BODY.

BAR / COFFEE SERVICE EQUIPMENT SCHEDULE

ITEM	GENERAL DESCRIPTION	SUPPLY PIPING			WASTE & VENT PIPING			WASTE SYSTEM		NOTES
		COLD	HOT (120 DEGREE)	HOT (140 DEGREE)	GAS	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	
BC1	HAND SINK	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC2	DUMP SINK	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC3	BAR SINK	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC4	ICE MACHINE	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC5	GLASSWASHER (HOT WATER FROM BOOSTER HEATER)	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC6	ICE MACHINE	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC7	ESPRESSO MACHINE	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC8	COFFEE BREWER	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1
BC9	GLASS RINSER	1/2"	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1

CONTRACTOR RESPONSIBILITIES:
 1. PROVIDE ALL SUPPLY & WASTE ROUGH-INS.
 2. INSTALL ALL "LOOSE" SUPPLY & WASTE TRIM.
 3. PROVIDE ALL NECESSARY SUPPLY STOPS, TRAPS, FIXTURE DRAINS, CONTINUOUS WASTE & INDIRECT WASTE.
 4. MAKE ALL FINAL CONNECTIONS.

NOTES:
 1. PROVIDE FILTER ON SUPPLY TO ICE MAKER. FILTER BY EVERPURE #9323-01.

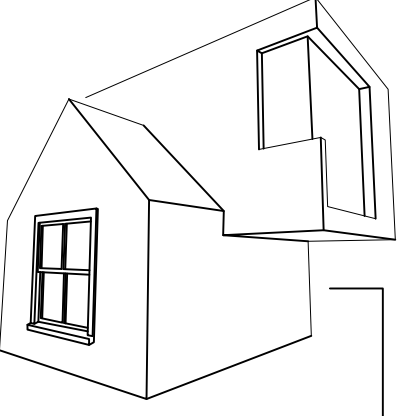
CLEANOUT SCHEDULE

ITEM	MANUFACTURER (OR APPROVED EQUAL)	TYPE	BODY	OUTLET	TOP STYLE	TOP FINISH		ADDITIONAL FEATURES		NOTES
						SIZE	ADJUSTABLE	ANCHOR FLANGE	FLASHING CLAMP	
FCO	ZURN (OR APPROVED EQUAL)	FLOOR	CAST IRON	4"	ROUND	1	1	1	1	1,2
GCO	ZURN (OR APPROVED EQUAL)	GRADE	BRONZE	4"	SQUARE	1	1	1	1	1
WCO	ZURN (OR APPROVED EQUAL)	WALL	BRONZE	4"	ADJUSTABLE	1	1	1	1	1

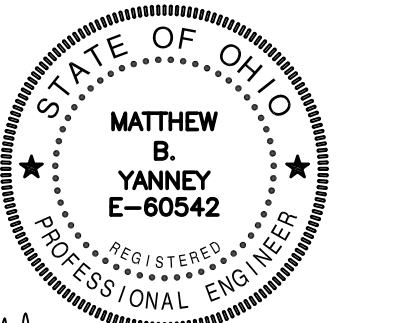
NOTES:
 1. CLEANOUTS SHALL BE SAME SIZE OF CONNECTING PIPE OR PER LOCAL PLUMBING CODE.
 2. PROVIDE CARPET FLANGE COVER (CF), ROUND TILE TOP (TX), OR ROUND TERRAZZO TOP (Z) WHERE REQUIRED.

LEGEND

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	COMBINATION FIRE AND DOMESTIC WATER SERVICE
	GAS SERVICE
	SANITARY PIPING
	SANITARY VENT PIPING
	KITCHEN WASTE PIPING
	KITCHEN WASTE VENT PIPING
	INDIRECT WASTE PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING - 120°F
	DOMESTIC HOT WATER RETURN - 120°F
	DOMESTIC HOT WATER PIPING - 140°F
	DOMESTIC HOT WATER RETURN - 140°F
	NATURAL GAS PIPING
	PIPE DROP
	PIPE RISER
	DIRECTION OF PITCH
	DIRECTION OF FLOW
	UNION
	CHECK VALVE
	SHUT-OFF VALVE
	COMBINATION BALANCE/SHUT-OFF VALVE
	GAS SHUT-OFF VALVE
	SHUT-OFF VALVE ON DROP
	SHUT-OFF VALVE ON RISER
	PRESSURE GAGE
	THERMOMETER
	CLEANOUT
	GRADE CLEANOUT
	FLOOR CLEANOUT
	WALL CLEANOUT
	SANITARY RISER
	VENT RISER
	VENT THRU ROOF
	SUPPLY RISER
	ABOVE FINISH FLOOR
	ABOVE FINISH GRADE
	INVERT ELEVATION
	NEW FIXTURE SYMBOL
	TO FIXTURE ABOVE
	CONNECT TO EXISTING



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Matthew B. Yanney

WEST SOCIAL FOOD HALL
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REVISION	DATE
PERMIT	08/21/2020
REVISION 1	10/13/2020
REVISION 2	06/22/2021
REVISION 3	09/14/2021
REVISION 4	09/28/2021
REVISION 5	10/13/2021
REVISION 6	10/25/2021
REVISION 7	11/12/2021

PROJECT No.: 2020-09

SHEET NAME: LEGEND & SCHEDULES

BSE BUILDING SYSTEMS ENGINEERING, Ltd.
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 Beavercreek, Ohio 45432
 T: (937) 306-1468
 F: (937) 306-1491
 www.bseld.biz
 Project #: 20013

VENDOR 1 - EQUIPMENT SCHEDULE

ITEM	GENERAL DESCRIPTION	SUPPLY PIPING			WASTE & VENT PIPING							WASTE SYSTEM		NOTES				
		COLD	HOT (120 DEGREE)	HOT (140 DEGREE)	GAS	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	VENT - MINIMUM SIZE	INDIRECT	OVER FLOOR DRAIN/SINK	ARGAP		ABBREK	SANITARY	KITCHEN	
V10	HAND SINK																	
V11	PREP SINK																	
V12	HOT WELLS																	
V13	THREE COMPARTMENT SINK																	
V14	CONVECTION OVEN (54,000 BTU INPUT)																	1
V15	RANGE (88,000 BTU INPUT)																	1
V16	CHARBROILER (28,000 BTU INPUT)																	1
V17	GRIDDLE (30,000 BTU INPUT)																	1

NOTES:
1. VALVE AND CONNECT TO GAS-FIRED EQUIPMENT. PROVIDE UNION AT EQUIPMENT CONNECTION.

VENDOR 2 - EQUIPMENT SCHEDULE

ITEM	GENERAL DESCRIPTION	SUPPLY PIPING			WASTE & VENT PIPING							WASTE SYSTEM		NOTES				
		COLD	HOT (120 DEGREE)	HOT (140 DEGREE)	GAS	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	VENT - MINIMUM SIZE	INDIRECT	OVER FLOOR DRAIN/SINK	ARGAP		ABBREK	SANITARY	KITCHEN	
V20	PREP SINK																	
V21	THREE COMPARTMENT SINK																	
V22	HAND SINK																	
V23	RANGE/OVEN/GRIDDLE (268,000 BTU INPUT)				1*													1
V24	CHARBROILER (40,000 BTU INPUT)																	1
V25	FRYER (122,000 BTU INPUT)																	1
V26	ICE MAKER																	2

NOTES:
1. VALVE AND CONNECT TO GAS-FIRED EQUIPMENT. PROVIDE UNION AT EQUIPMENT CONNECTION.
2. PROVIDE FILTER ON SUPPLY TO ICE MAKER. FILTER BY EVERPURE #9323-01.

VENDOR 3 & 4 - EQUIPMENT SCHEDULE

ITEM	GENERAL DESCRIPTION	SUPPLY PIPING			WASTE & VENT PIPING							WASTE SYSTEM		NOTES				
		COLD	HOT (120 DEGREE)	HOT (140 DEGREE)	GAS	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	VENT - MINIMUM SIZE	INDIRECT	OVER FLOOR DRAIN/SINK	ARGAP		ABBREK	SANITARY	KITCHEN	
V30	PIZZA OVEN (168,000 BTU INPUT)																	1
V40	HAND SINK																	
V41	PREP SINK																	
V42	THREE COMPARTMENT SINK																	
V43	HOT WELLS																	
V44	RANGE (26,000 BTU INPUT)				1*													1
V45	GRIDDLE (90,000 BTU INPUT)																	1
V46	FRYER (150,000 BTU INPUT)																	1

NOTES:
1. VALVE AND CONNECT TO GAS-FIRED EQUIPMENT. PROVIDE UNION AT EQUIPMENT CONNECTION.

VENDOR 5 - EQUIPMENT SCHEDULE

ITEM	GENERAL DESCRIPTION	SUPPLY PIPING			WASTE & VENT PIPING							WASTE SYSTEM		NOTES				
		COLD	HOT (120 DEGREE)	HOT (140 DEGREE)	GAS	FIXTURE OUTLET	TRAP	FIXTURE DRAIN	WASTE - MINIMUM SIZE	VENT - MINIMUM SIZE	INDIRECT	OVER FLOOR DRAIN/SINK	ARGAP		ABBREK	SANITARY	KITCHEN	
V50	HAND SINK																	
V51	PREP SINK																	
V52	THREE COMPARTMENT SINK																	
V53	HOT WELLS																	
V54	CHARBROILER (80,000 BTU INPUT)																	1
V55	RANGE/OVEN (195,000 BTU INPUT)																	1
V56	FRYER (90,000 BTU INPUT)																	1

NOTES:
1. VALVE AND CONNECT TO GAS-FIRED EQUIPMENT. PROVIDE UNION AT EQUIPMENT CONNECTION.

DIV. 22 - PLUMBING SPECIFICATIONS

22 0500 - COMMON WORK RESULTS

A. CUTTING OF EXISTING OR NEW CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, TO INSTALL ANY PIPING OR EQUIPMENT, SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR.

PATCHING OF THE CUTTING PROCEDURES IS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION AND ADJACENT CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE.

B. DEMOLITION OF EXISTING ITEMS OR MATERIALS SHALL BE COMPLETELY REMOVED UNLESS OTHERWISE INDICATED TO BE REUSED, SALVAGED, OR REINSTALLED. ANY SALVAGED ITEMS OR MATERIALS SHALL BE TURNED OVER TO THE OWNER.

REMOVE, REPLACE, PATCH, AND REPAIR MATERIALS AND SURFACES CUT OR DAMAGED DURING DEMOLITION, BY METHODS AND WITH MATERIALS SO AS NOT TO VOID EXISTING WARRANTIES.

MAINTAIN AND DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO AUTHORITIES HAVING JURISDICTION.

C. CLOSEOUT PROCEDURES SHALL BE CONDUCTED BEFORE REQUESTING INSPECTION FOR SUBSTANTIAL COMPLETION. CONTRACTOR SHALL PREPARE A PUNCH LIST OF ITEMS TO BE COMPLETED AND CORRECTED, AND REASONS WHY THE WORK IS NOT COMPLETE.

COMPLETE ALL STARTUP TESTING OF SYSTEMS AND SUBMIT ALL TESTING AND BALANCE REPORTS. ADVISE OWNER OF CHANGEOVER DATE OF ALL UTILITIES.

D. OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE O&M INFORMATION FOR EACH PIECE OF EQUIPMENT INCLUDING: MANUFACTURER'S INFORMATION; LIST OF SPARE PARTS; NAME, ADDRESS, AND TELEPHONE NUMBER OF INSTALLER OR SUPPLIER; MAINTENANCE PROCEDURES; COPIES OF MAINTENANCE SERVICE AGREEMENTS, WARRANTIES AND BONDS. BIND AND INDEX DATA IN HEAVY-DUTY, 3-RING, VINYL-COVERED, LOOSE-LEAF BINDERS.

E. MANUFACTURER'S STANDARD WARRANTIES SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE A WARRANTY FOR HIS WORK FOR A MINIMUM OF 1 YEAR AFTER DATE OF COMPLETION.

F. DEMONSTRATION AND TRAINING SHALL BE CONDUCTED BY AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE TO OWNER'S PERSONNEL ON THE PROPER ADJUSTMENT, OPERATION, AND MAINTENANCE OF SYSTEMS, SUBSYSTEMS, AND EQUIPMENT NOT PART OF A SYSTEM. INSTRUCTORS SHALL BE EXPERIENCED IN OPERATION AND MAINTENANCE PROCEDURES. PROVIDE SIMILAR INSTRUCTION FOR EQUIPMENT THAT REQUIRES SEASONAL OPERATION.

G. COORDINATION AMONG ALL TRADES IS MANDATORY. ANY COST CHANGES RESULTING FROM THE LACK OF COORDINATION, SHALL BE BORNE BY THE CONTRACTOR CREATING THE CONFLICT.

H. SUBMITTALS SHALL INCLUDE ALL PRODUCT DATA, SPECIALTIES, ACCESSORIES, POWER, SIGNAL, AND CONTROL WIRING DIAGRAMS. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ALL EQUIPMENT'S ELECTRICAL REQUIREMENTS TO THE ELECTRICAL CONTRACTOR.

I. TEMPORARY METERED WATER SERVICE IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL UTILITY CHARGES SHALL BE PAID BY THE GENERAL CONTRACTOR.

J. PIPE WELDERS MUST COMPLY WITH PROVISIONS IN ASME B31 SERIES "CODE FOR PRESSURE PIPING" AND MUST HAVE CERTIFICATION PER AWS QUALIFICATIONS.

K. ALL EQUIPMENT AND MATERIALS SHALL BE DELIVERED, STORED AND HANDLED WITH CARE. ANY DAMAGE RESULTING FROM IMPROPER STORAGE OR HANDLING OF EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.

L. FINISH PAINTING SHALL BE FURNISHED BY GENERAL CONTRACTOR. MARRED OR DAMAGED FACTORY-PAINTED FINISHES SHALL BE CONTRACTOR'S RESPONSIBILITY AND SHALL MATCH ORIGINAL FACTORY FINISH.

M. ALL PIPE PENETRATIONS THROUGH FIRE RATED CEILINGS/WALLS SHALL COMPLY TO U.L. "XHEZ" FIRE RESISTANCE SYSTEMS, U.L. 1479 FOR FIRE-PROOFING SEALANTS/MATERIALS AND U.L. 411 FOR WALL ASSEMBLY. INSTALLATION SHALL BE IN CONFORMANCE TO U.L. SYSTEMS #F-C-1006, #F-C-1036 OR #F-C-1061.

N. CONCRETE BASES SHALL BE FURNISHED BY EACH CONTRACTOR UNLESS OTHERWISE INDICATED.

22 0519 - PLUMBING METERS AND GAGES

A. THERMOMETERS SHALL BE BIMETALLIC ACTUATED DIAL TYPE.

B. PRESSURE GAGES SHALL BE INDICATING DIAL TYPE.

22 0523 - PLUMBING VALVES

A. SHUT-OFF VALVES SHALL BE TWO-PIECE BRASS OR BRONZE BALL TYPE.

B. CHECK VALVES SHALL BE BRONZE SWING TYPE.

22 0529 - PLUMBING HANGERS AND SUPPORTS

A. PIPE HANGERS SHALL BE ADJUSTABLE STEEL CLEVIS (TYPE 1), ADJUSTABLE STEEL BAND (TYPE 7) OR ADJUSTABLE SWIVEL RING BAND (TYPE 10).

B. PIPE HOLDERS SHALL BE HIGH IMPACT RESISTANT ABS J-HOOKS EQUAL TO WATERTITE "HANG-TITE" SERIES.

C. PIPE RISER CLAMPS SHALL BE STEEL EXTENSION PIPE OR RISER CLAMP (TYPE 8).

D. STEEL BEAM CLAMPS SHALL BE C-CLAMPS (TYPE 19 OR 23).

E. WOOD BEAM BRACKETS SHALL BE SIDE BEAM (TYPE 34).

F. STRAP SHORTS SHALL BE STEEL U-SHAPE TYPE EQUAL TO ANVIL #262.

G. PIPE COVERING PROTECTION SHALL BE SADDLE (TYPE 39) OR SHIELD (TYPE 40).

22 0700 - PLUMBING INSULATION

A. INSULATION SHALL BE MINERAL-FIBER WITH ALL-PURPOSE JACKET OR FLEXIBLE ELASTOMERIC WHICH MEETS OR EXCEEDS THE 25/50 FLAME SPREAD/SMOKE DEVELOPED RATINGS. THICKNESS SHALL BE 1" MINIMUM.

B. PVC JACKET AND FITTING COVERS SHALL BE USED IN WET AREAS.

22 1116 - DOMESTIC WATER PIPING

A. WATER PIPING SHALL BE ASTM B 88 TYPE "K" COPPER TUBE (BELOW FLOOR OR GRADE), TYPE "L" COPPER TUBE, ASTM F441 SCHEDULE 40 CPVC OR ASTM F877 SDR 9 PEX TUBING (IN WALLS ONLY). COPPER FITTINGS SHALL BE CAST OR WROUGHT TYPE. CPVC FITTINGS SHALL BE ASTM F438 SOCKET TYPE. PEX FITTINGS SHALL BE ASTM F1807 METAL INSERT TYPE WITH COPPER/STAINLESS STEEL CRAMP RINGS. COPPER JOINTS SHALL BE SOLDERED WITH 95-5 TIN ANTIMONY SOLDER OR PRESSURE SEALED TYPE.

B. BACKFLOW PREVENTERS SHALL BE ASSE 1013 AND AWWA C511 REDUCED PRESSURE TYPE WITH Y-PATTERN STRAINER UNLESS OTHERWISE NOTED.

C. WATER REGULATORS SHALL BE ASSE 1003 BRONZE OR CAST IRON BODY AND SINGLE SEATED, DIRECT OPERATED. REGULATOR TO BE INSTALLED IF WATER SERVICE EXCEEDS 65 PSI.

D. LAVATORY/HAND SINK THERMOSTATIC WATER MIXING VALVES SHALL BE ASSE 1016 AND ASSE 1070.

E. WATER HAMMER ARRESTORS SHALL BE ASSE 1010 OR PDI-WH201. SIZES BASED ON ASSE 1010 OR PDI-WH201 STANDARDS.

F. NO CPVC PIPING SHALL BE INSTALLED ABOVE CEILING IF SPACE IS BEING USED AS A RETURN AIR PLENUM.

G. HANGER SPACING AND ROD SIZING AS PER LOCAL CODE.

H. PIPE INSULATION REQUIRED ON ALL WATER PIPING SYSTEMS.

I. CLEAN AND DISINFECT PIPING AS PER LOCAL CODE.

22 1316 - SANITARY WASTE AND VENT PIPING

A. BELOW GRADE SANITARY PIPING SHALL BE ASTM A 74 SERVICE HUB AND SPIGOT CAST IRON WITH RUBBER GASKETS, ASTM A 888 HUBLESS CAST IRON WITH STAINLESS STEEL TYPE 304 COUPLINGS OR ASTM D 2665 SCHEDULE 40 PVC WITH SOLVENT CEMENTED JOINTS.

B. ABOVE GRADE SANITARY/VENT PIPING SHALL BE ASTM A 888 HUBLESS CAST IRON WITH STAINLESS STEEL TYPE 301 COUPLINGS OR ASTM D 2665 SCHEDULE 40 PVC WITH SOLVENT CEMENTED JOINTS.

C. NO PVC PIPING SHALL BE INSTALLED ABOVE CEILING IF SPACE IS BEING USED AS A RETURN AIR PLENUM.

D. HANGER SPACING AND ROD SIZING AS PER LOCAL CODE.

E. FLOOR AND GRADE CLEANOUTS SHALL BE CAST IRON BODY, PLASTIC PLUG CLOSURE, ADJUSTABLE THREADED HOUSING, ROUND NICKEL-BRONZE FRAME AND COVER.

F. WALL CLEANOUT SHALL BE ROUND POLISHED STAINLESS STEEL COVER WITH VANDAL-PROOF SCREW.

G. REFER TO DRAIN SCHEDULE OR DRAWING NOTES FOR DRAIN REQUIREMENTS.

22 3400 - FUEL-FIRED WATER HEATERS

A. REFER TO WATER HEATER DETAIL ON DRAWING FOR ALL REQUIREMENTS.

22 4000 - PLUMBING FIXTURES

A. REFER TO FIXTURE SCHEDULE OR DRAWING NOTES ON DRAWINGS FOR FIXTURE AND TRIM REQUIREMENTS.

22 8123 - NATURAL GAS PIPING

A. UNDERGROUND GAS PIPING SHALL BE ASTM D 2513, SDR 11 PE PIPE WITH ASTM D 2683 SOCKET FUSION OR ASTM D 3261 BUTT FUSION TYPE FITTINGS. ALL TRANSITION FITTINGS SHALL BE ASTM D 2513, SDR 11 PE PIPE.

B. UNDERGROUND GAS PIPING SHALL BE INSTALLED PER ASTM D 2774 AND BURIED 36" BELOW FINISHED GRADE. WARNING TAPE SHALL BE INSTALLED ABOVE PIPING AND 12" BELOW FINISHED GRADE.

C. ANY GAS PIPING INSTALLED BELOW ANY SOLID SURFACE (CONCRETE, BRICK PAVERS, ASPHALT, STONE, ETC.) SHALL BE INSTALLED IN A SECONDARY CONDUIT AND OPEN AT BOTH ENDS FOR VENTILATION AS PER LOCAL GAS DEPARTMENT'S RULES AND REGULATIONS.

D. ABOVE GRADE GAS PIPING SHALL BE ASTM A 53/A 53M, TYPE E OR S SCHEDULE 40 BLACK STEEL WITH CLASS 150 MALLEABLE OR CAST IRON FITTINGS.

E. ABOVE GRADE GAS PIPING (TO EQUIPMENT) SHALL BE ASTM A 240/A 240M, SERIES 300 CORRUGATED STAINLESS STEEL TUBING WITH COPPER-ALLOY MECHANICAL FITTINGS HAVING SOCKET OR THREADED ENDS.

F. PIPE WELDERS MUST COMPLY WITH PROVISIONS IN ASME B31 SERIES "CODE FOR PRESSURE PIPING" AND MUST HAVE CERTIFICATION PER AWS QUALIFICATIONS.

G. OPERATING PRESSURE NOT TO EXCEED 0.5 PSIG, UNLESS OTHERWISE INDICATED.

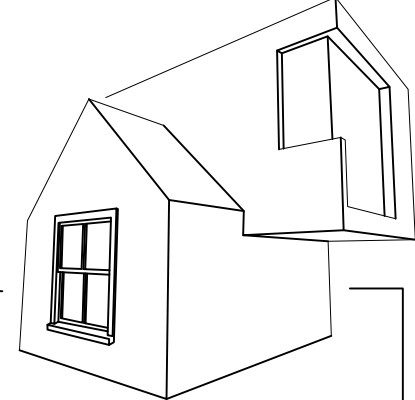
H. SHUT-OFF VALVES SHALL BE A.G.A. APPROVED.

I. NO SHUT-OFF VALVE SHALL BE INSTALLED ABOVE CEILING IF SPACE IS BEING USED AS A RETURN AIR PLENUM.

J. HANGER SPACING AND ROD SIZING SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE.

K. ALL PIPING INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL FUEL GAS CODE.

L. EXTERIOR PIPING SHALL BE COATED WITH AN ANTI-CORROSION METAL PRIMER AND PAINTED WITH A EXTERIOR SEMI-GLOSS ALKYLID ENAMEL PAINT TO MATCH BUILDING COLOR.



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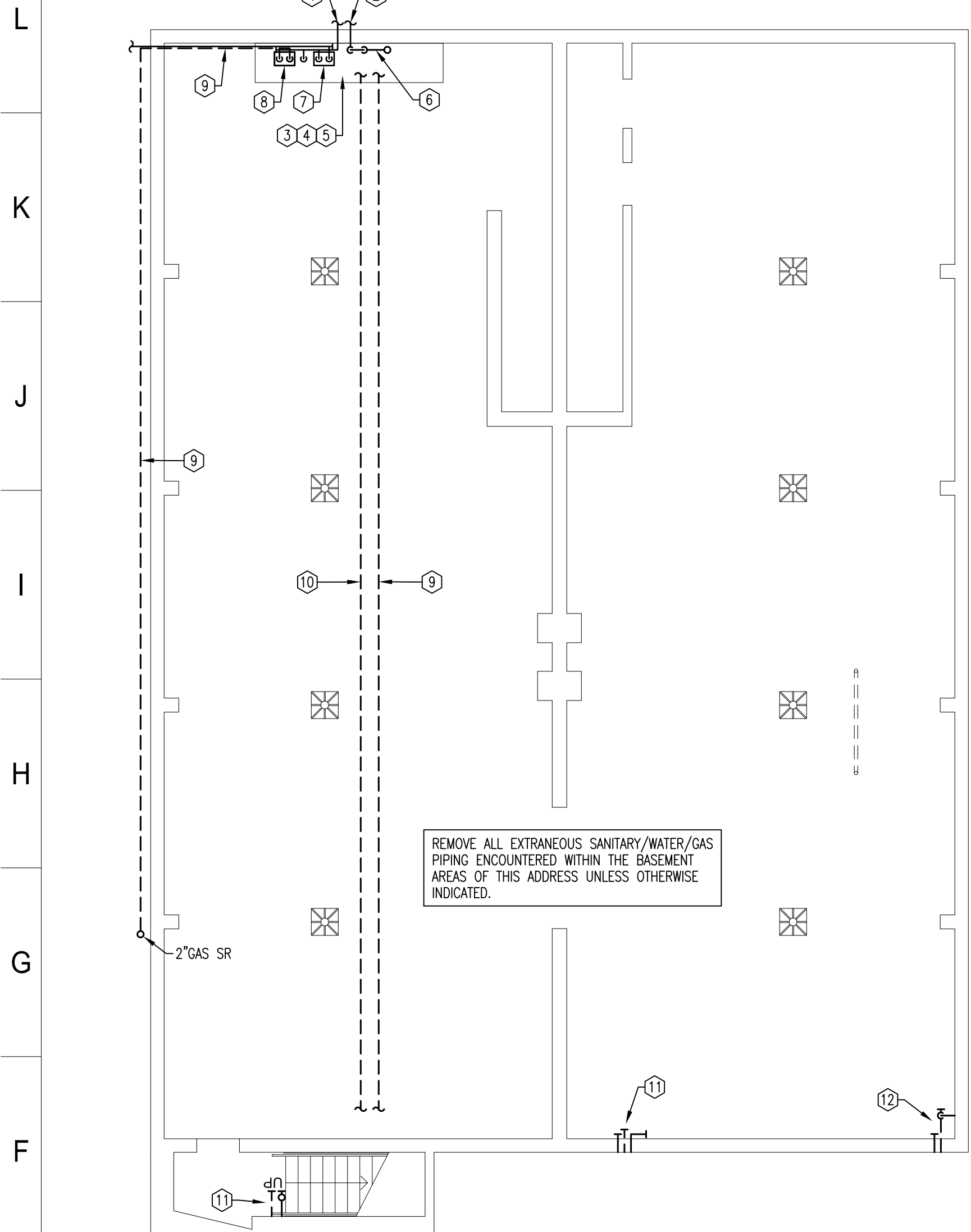
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REVISION	09/14/2021

PROJECT No.:
2020-09

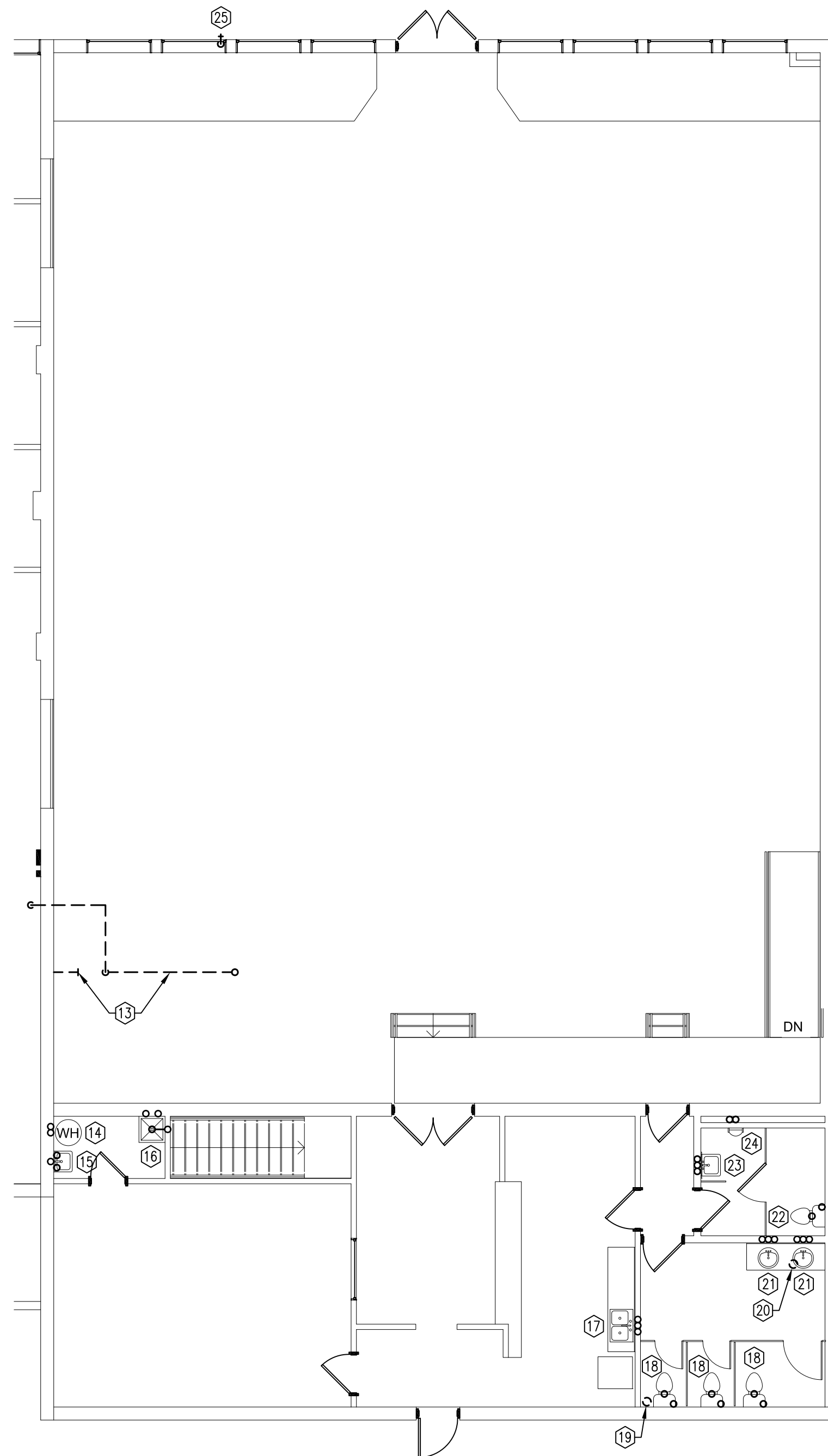
SHEET NAME:
SCHEDULES & SPECIFICATIONS

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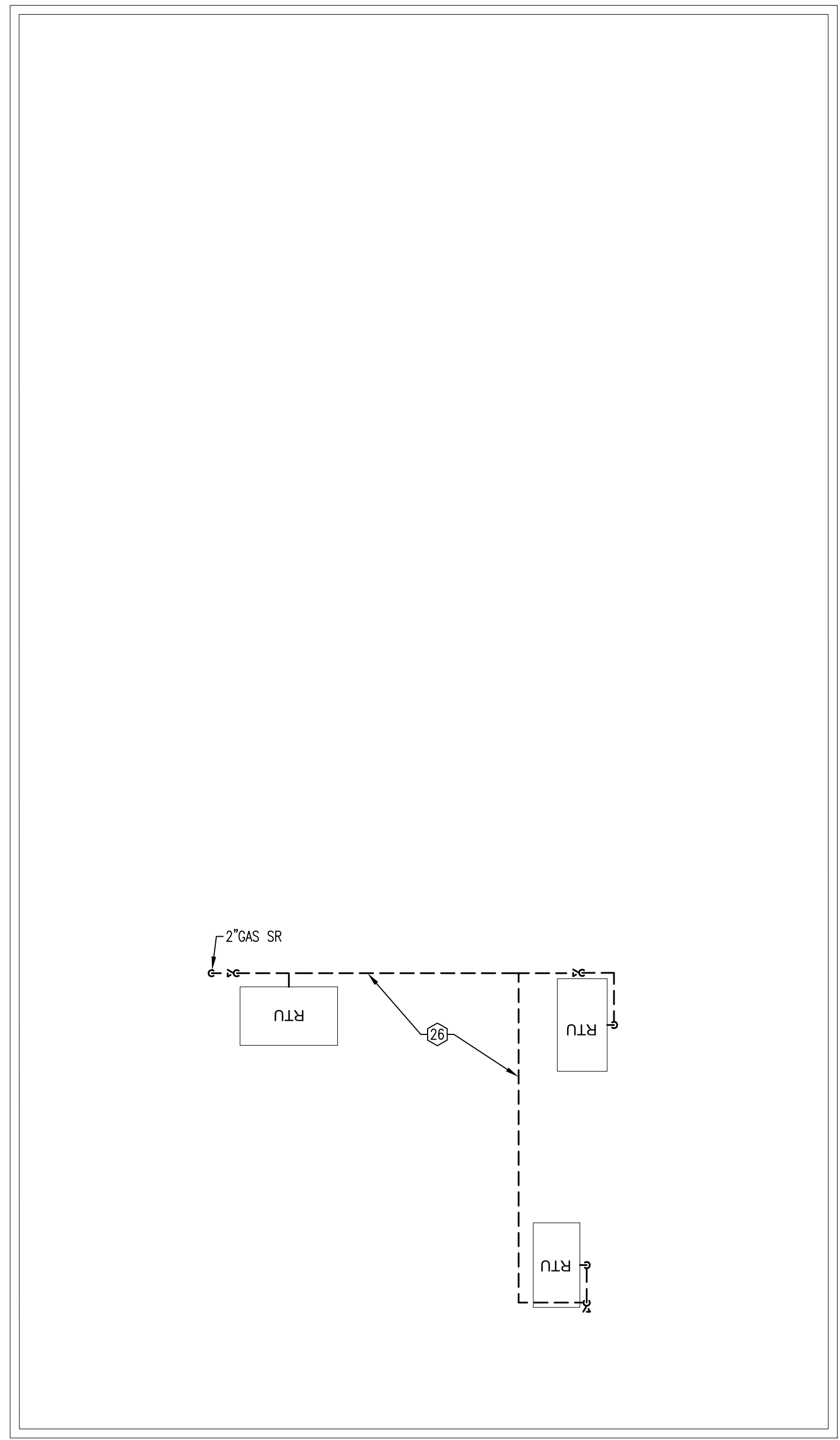
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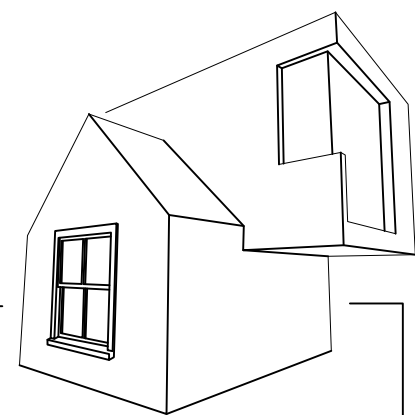
2 FIRST FLOOR
Scale: 1/8" = 1'-0"
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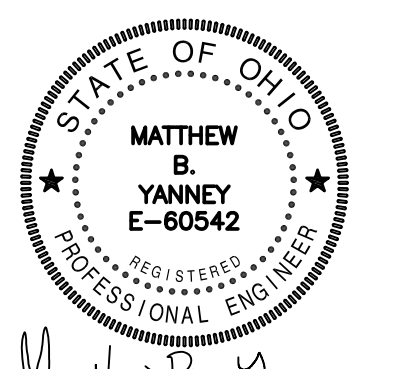
3 ROOF PLAN
Scale: 1/8" = 1'-0"
N

DEMOLITION NOTES

1. EXISTING 3" GAS SERVICE TO REMAIN.
2. EXISTING 2" GAS SERVICE TO BE ABANDONED IN PLACE.
3. EXISTING 0.75" WATER METERS (4 TOTAL) BELOW EXISTING GAS METERS TO REMAIN. EXISTING METERS SERVE TENANT SPACE'S WITHIN THIS COMPLEX.
4. EXISTING 0.75" WATER METER SERVING THIS ADDRESS SHALL BE REMOVED UPON ACTIVATION OF NEW 1.5" DOMESTIC WATER SERVICE.
5. EXISTING 0.75" BACKFLOW PREVENTER AND ALL EXTRANEOUS WATER PIPING SERVING THIS ADDRESS SHALL BE REMOVED WITHIN THIS AREA.
6. EXISTING METER SPREAD AND ALL ASSOCIATED GAS PIPING TO BE REMOVED TO EXTERIOR WALL AND CAPPED.
7. EXISTING GAS METER SERVING ADDRESS "1130" TO REMAIN.
8. EXISTING GAS METER SERVING THIS ADDRESS TO REMOVED UPON ACTIVATION OF NEW 4" GAS SERVICE.
9. EXISTING GAS PIPING TO BE REMOVED AS INDICATED.
10. EXISTING WATER PIPING TO BE REMOVED AS INDICATED.
11. ALL SANITARY/WATER PIPING TO BE REMOVED BEHIND WALL AND CAPPED. GENERAL CONTRACTOR TO FINISH WALL OPENING AS REQUIRED.
12. ALL SANITARY/STORM PIPING TO BE REMOVED BEHIND WALLS AND CAPPED. GENERAL CONTRACTOR TO FINISH WALL OPENING AS REQUIRED.
13. ALL GAS PIPING TO BE REMOVED ABOVE ROOF/BEHIND WALLS AND CAPPED. PATCH ROOF/WALL OPENINGS TO REQUIRED TO MATCH EXISTING SURFACES.
14. REMOVE EXISTING ELECTRIC WATER HEATER AND ALL ASSOCIATED WATER TO BEHIND WALL. CAP PIPING AND PATCH WALL OPENINGS TO MATCH EXISTING SURFACE AS REQUIRED.
15. REMOVE EXISTING VANITY LAVATORY AND ALL ASSOCIATED SANITARY/WATER PIPING TO BEHIND WALL. CAP PIPING AND PATCH WALL OPENINGS TO MATCH EXISTING SURFACE AS REQUIRED.
16. REMOVE EXISTING MOP BASIN AND ALL ASSOCIATED SANITARY/WATER PIPING TO BEHIND WALL. CAP PIPING AND PATCH WALL OPENINGS TO MATCH EXISTING SURFACE AS REQUIRED.
17. REMOVE EXISTING COUNTERTOP SINK AND ALL ASSOCIATED SANITARY/WATER PIPING TO BEHIND WALL. CAP PIPING AND PATCH WALL OPENINGS TO MATCH EXISTING SURFACE AS REQUIRED.
18. REMOVE EXISTING TANK TYPE WATER CLOSET AND ALL ASSOCIATED SANITARY/WATER PIPING TO BELOW FLOOR. CAP PIPING AS REQUIRED AND PREPARE EXISTING FLOOR/WALL FOR NEW INSTALLATION OF SANITARY/WATER PIPING AS INDICATED ON NEW WORK FLOOR PLAN.
19. REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED SANITARY PIPING TO BELOW FLOOR. CAP PIPING AND PATCH FLOOR OPENING TO MATCH EXISTING SURFACE AS REQUIRED.
20. REMOVE EXISTING FLOOR CLEANOUT AND ALL ASSOCIATED SANITARY PIPING TO BELOW FLOOR. CAP PIPING AND PATCH FLOOR OPENING TO MATCH EXISTING SURFACE AS REQUIRED.
21. REMOVE EXISTING COUNTERTOP LAVATORY AND ALL ASSOCIATED SANITARY/WATER PIPING TO BEHIND WALL. PREPARE EXISTING PIPING IN WALLS FOR NEW LAVATORY. PROVIDE NEW SANITARY/WATER PIPING TO EXISTING SANITARY/WATER PIPING IN WALLS AS INDICATED ON NEW WORK FLOOR PLAN.
22. REMOVE EXISTING TANK TYPE WATER CLOSET AND ALL ASSOCIATED SANITARY/WATER PIPING TO BEHIND WALL/BELOW FLOOR. CAP PIPING AND PATCH FLOOR/WALL OPENINGS TO MATCH EXISTING SURFACES AS REQUIRED.
23. REMOVE EXISTING WALL HUNG LAVATORY AND ALL ASSOCIATED SANITARY/VENT/WATER PIPING TO ABOVE CEILING/BEHIND WALL/BELOW FLOOR. CAP PIPING AND PATCH FLOOR/WALL OPENINGS TO MATCH EXISTING SURFACES AS REQUIRED.
24. REMOVE EXISTING WALL HUNG URINAL AND ALL ASSOCIATED SANITARY/VENT/WATER PIPING TO ABOVE CEILING/BEHIND WALL/BELOW FLOOR. CAP PIPING AND PATCH FLOOR/WALL OPENINGS TO MATCH EXISTING SURFACES AS REQUIRED.
25. REMOVE EXISTING HOSE BIB AND ALL ASSOCIATED WATER PIPING DOWN TO BASEMENT. PREPARE FOR NEW INSTALLATION OF HOSE BIB AND WATER PIPING AS INDICATED ON NEW WORK FLOOR PLAN.
26. ALL GAS PIPING TO BE REMOVED ON ROOF AS INDICATED.



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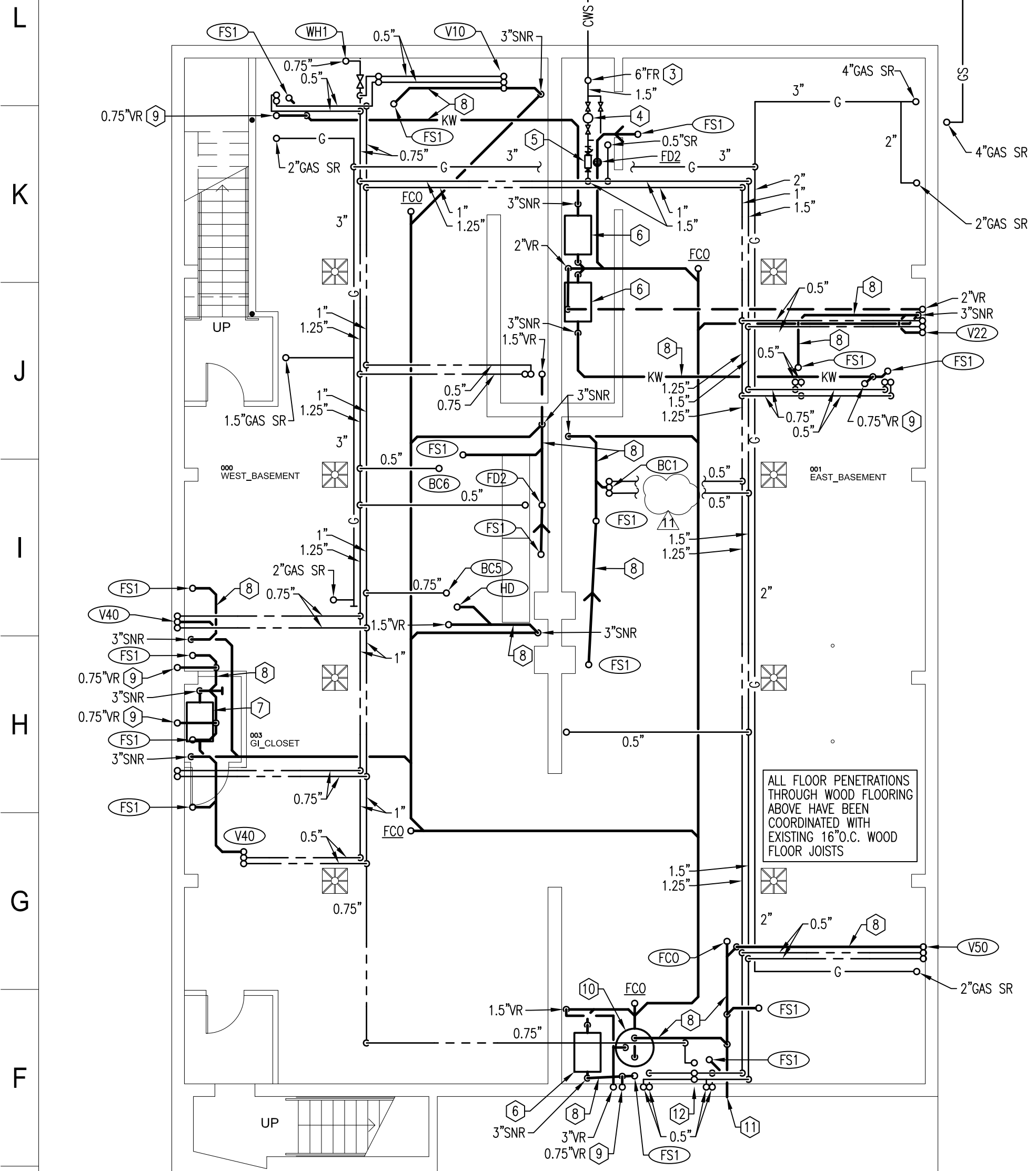
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REVISION ¹	10/13/2020
REVISION ⁴	06/22/2021
REVISION ⁶	09/14/2021

PROJECT No.: 2020-09

SHEET NAME: BASEMENT, FIRST FLOOR AND ROOF PLANS - DEMOLITION

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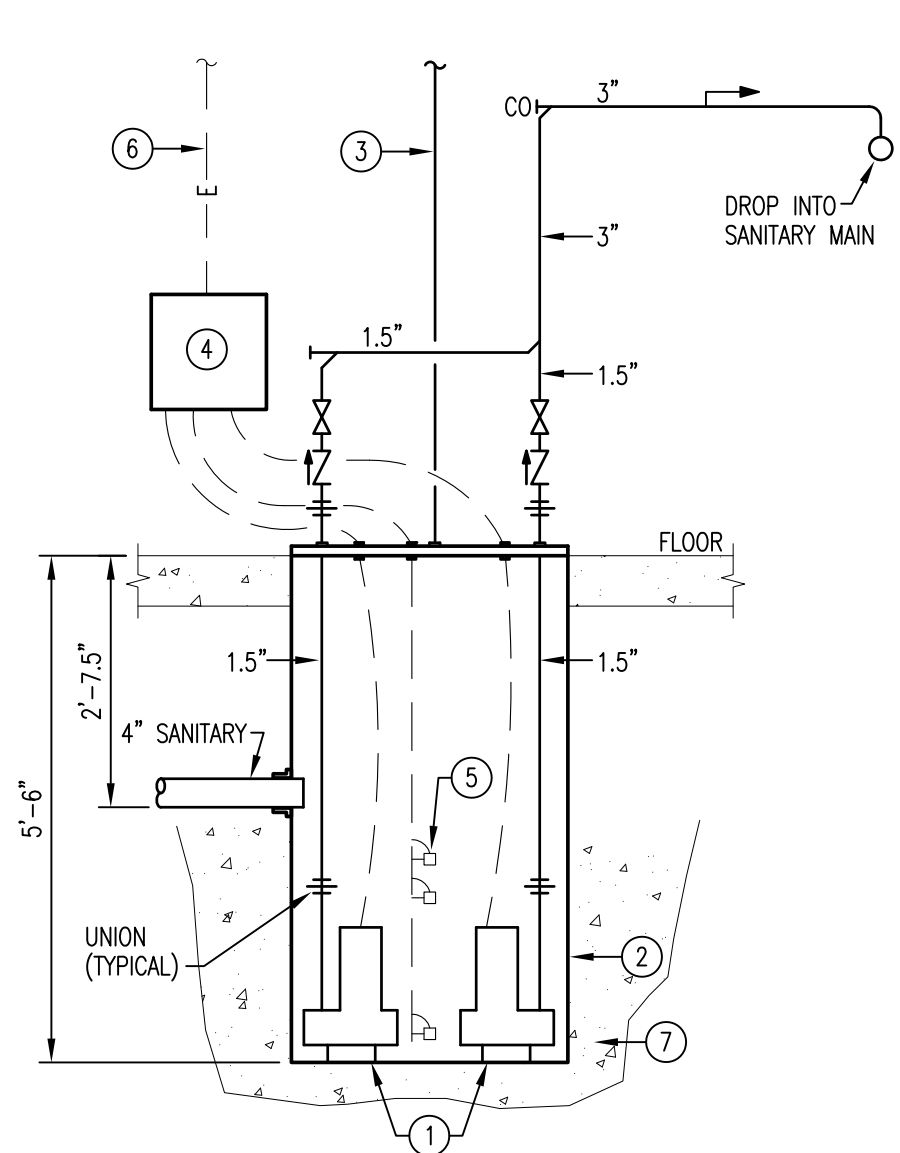
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1 BASEMENT
Scale: 1/8" = 1'-0"

- DETAIL NOTES**
- SUBMERSIBLE SEWAGE EJECTOR: PUMP - 88 GPM @ 20 FT. HEAD MOTOR - 2 HP, 208V, THREE PHASE MODEL - ZOELLER #819 OR APPROVED EQUAL.
 - SEWAGE EJECTOR BASIN TO BE 36" DIA. x 66" DEEP FIBERGLASS WITH HEAVY DUTY GAS-TIGHT STEEL COVER AND ANTI-FLOTATION FLANGE.
 - 3" BASIN VENT UP THROUGH ROOF.
 - DUPLEX CONTROL PANEL WITH FUSED DISCONNECT SWITCHES; PANEL TO BE FURNISHED BY PUMP SUPPLIER.
 - MICRO SWITCHES: LEVEL 1 - BOTH PUMPS OFF LEVEL 2 - PUMP #1 ON LEVEL 3 - PUMP #2 ON AND HIGH WATER ALARM
 - POWER TO CONTROL PANEL BY ELECTRICAL CONTRACTOR.
 - POUR EXCAVATED AREA AROUND BASIN FULL OF CONCRETE UP TO BOTTOM OF FOOTER.

SEWAGE EJECTOR (DUPLIX)
SCALE: NONE

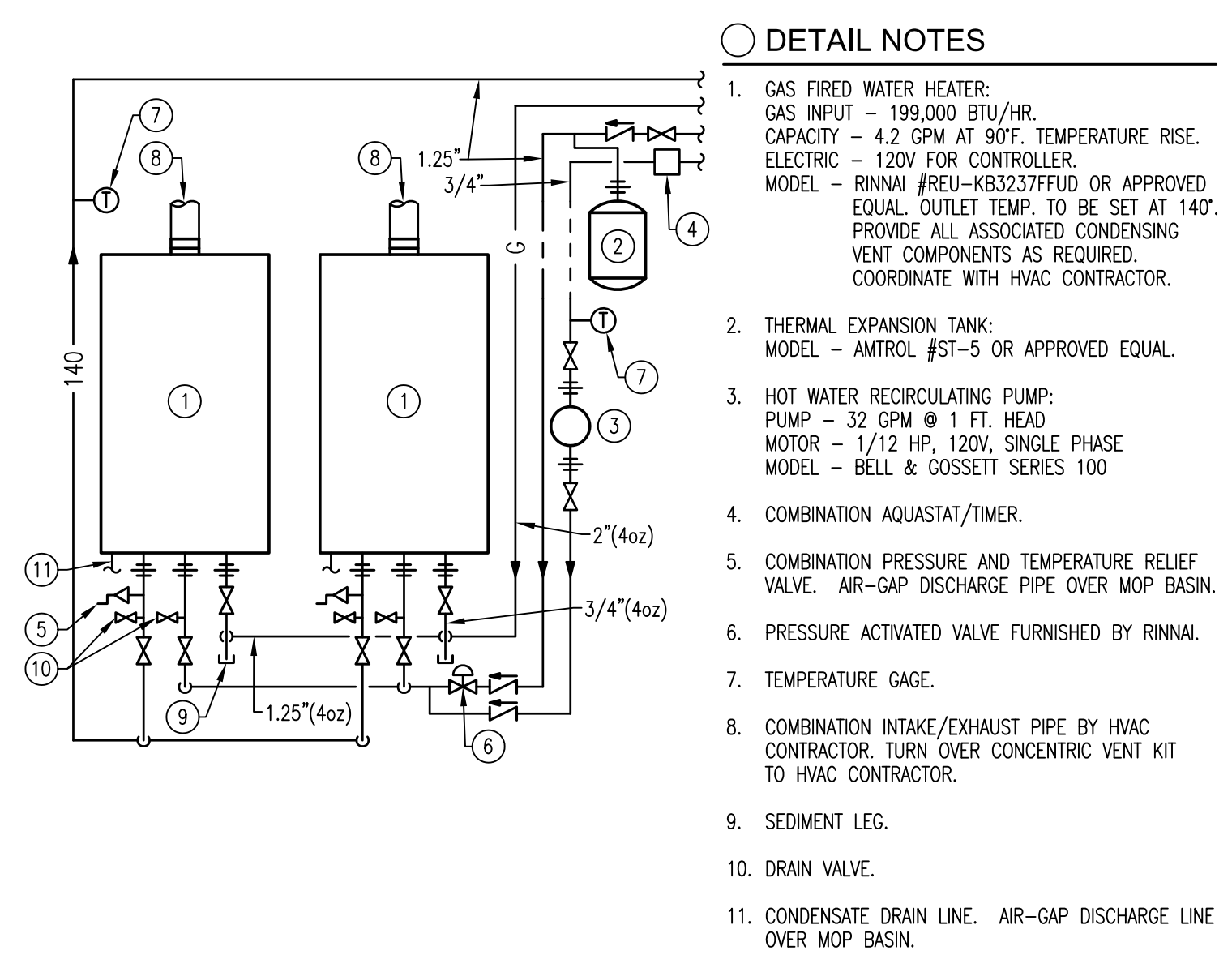
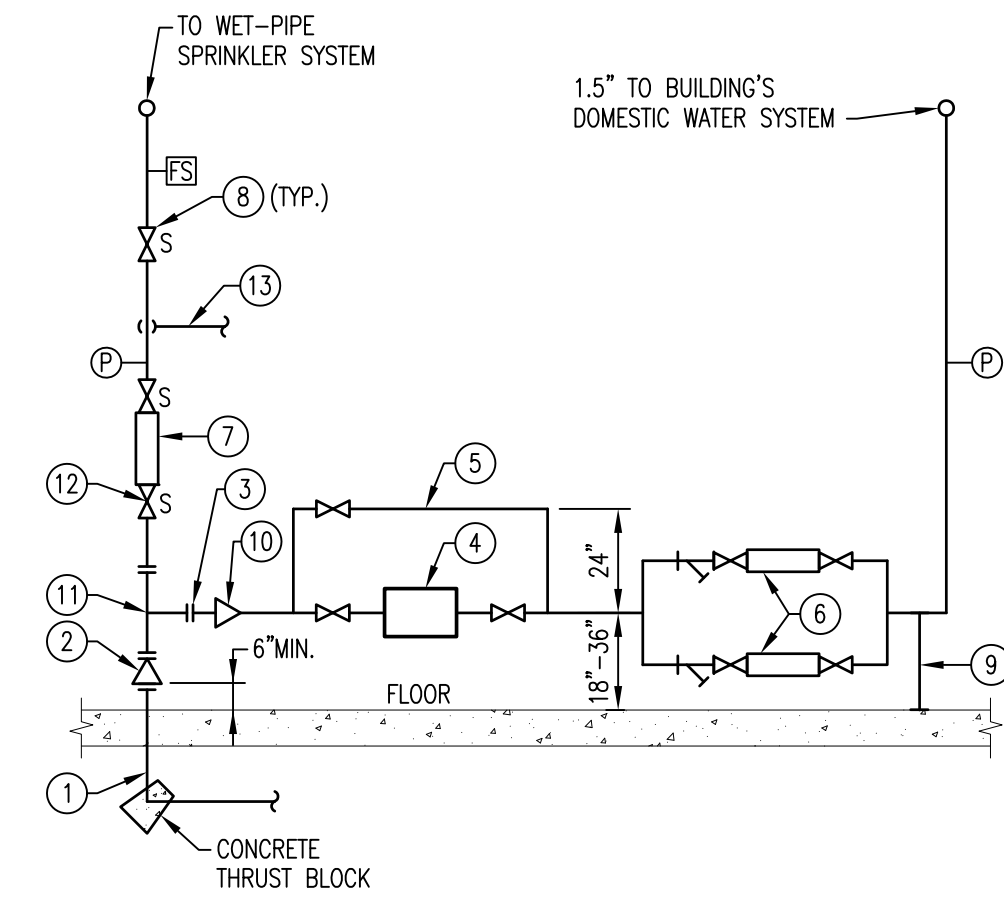


- DETAIL NOTES**
- SEE FLOOR PLAN FOR CONTINUATION.
 - TEE.
 - DIRT LEG.
 - APPROVED GAS SHUT-OFF VALVE. (BALL / LUB. PLUG ONLY)
 - UNION.
 - CONNECT TO GAS-FIRED EQUIPMENT.

GAS PIPING (TYP. EQUIPMENT CONNECTION)
SCALE: NONE

- DETAIL NOTES**
- INCOMING 6" WATER SERVICE BY FIRE SUPPRESSION CONTRACTOR (F.S.C.)
 - FLANGED REDUCER AT FLANGED CONNECTION BY F.S.C..
 - POINT OF CONNECTION FOR PLUMBING CONTRACTOR.
 - 1.5" WATER METER FURNISHED AND INSTALLED BY LOCAL WATER DEPARTMENT. 1.5" METER SPREAD (18" MIN. FROM WALLS) BY PLUMBING CONTRACTOR.
 - FULL SIZE BY-PASS WITH LOCKABLE SHUT-OFF VALVE.
 - 2" REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER. AIR-GAP DISCHARGE PIPE OVER NEAREST FLOOR DRAIN.
 - DOUBLE CHECK DETECTOR ASSEMBLY WITH CUBIC FEET METER AND TAMPER SWITCHES ON VALVES BY F.S.C.
 - SHUT-OFF VALVE WITH TAMPER SWITCH BY F.S.C..
 - STEEL PIPE SUPPORTS AS NEEDED.
 - FLANGED REDUCER.
 - TEE BY F.S.C..
 - WALL INDICATING VALVE BY F.S.C..
 - 4" INCOMING CONNECTION FROM FIRE DEPARTMENT CONNECTION. LOCATION OF FIRE DEPARTMENT CONNECTION TO BE DETERMINED BY F.S.C..

COMBINATION WATER SERVICE
SCALE: NONE

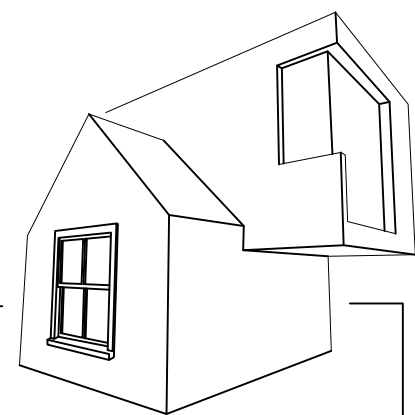


TANKLESS WATER HEATERS (CONCENTRIC VENT)
SCALE: NONE

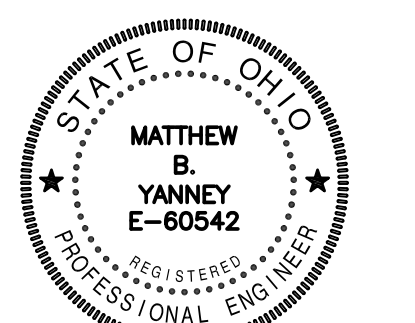
- DETAIL NOTES**
- GAS FIRED WATER HEATER: GAS INPUT - 199,000 BTU/HR. CAPACITY - 4.2 GPM AT 90°F. TEMPERATURE RISE. ELECTRIC - 120V FOR CONTROLLER. MODEL - RINNAI #REU-KB3237FFUD OR APPROVED EQUAL. OUTLET TEMP. TO BE SET AT 140°. PROVIDE ALL ASSOCIATED CONDENSING VENT COMPONENTS AS REQUIRED. COORDINATE WITH HVAC CONTRACTOR.
 - THERMAL EXPANSION TANK: MODEL - AMTROL #ST-5 OR APPROVED EQUAL.
 - HOT WATER RECIRCULATING PUMP: PUMP - 32 GPM @ 1 FT. HEAD MOTOR - 1/12 HP, 120V, SINGLE PHASE MODEL - BELL & GOSSETT SERIES 100
 - COMBINATION AQUASTAT/TIMER.
 - COMBINATION PRESSURE AND TEMPERATURE RELIEF VALVE. AIR-GAP DISCHARGE PIPE OVER MOP BASIN.
 - PRESSURE ACTIVATED VALVE FURNISHED BY RINNAI.
 - TEMPERATURE GAGE.
 - COMBINATION INTAKE/EXHAUST PIPE BY HVAC CONTRACTOR. TURN OVER CONCENTRIC VENT KIT TO HVAC CONTRACTOR.
 - SEDIMENT LEG.
 - DRAIN VALVE.
 - CONDENSATE DRAIN LINE. AIR-GAP DISCHARGE LINE OVER MOP BASIN.

- GENERAL NOTES**
- ALL SANITARY PIPING INDICATED IS TO BE INSTALLED BELOW THE FLOOR UNLESS OTHERWISE NOTED.
 - ALL VENT PIPING INDICATED IS TO BE INSTALLED AS HIGH AS POSSIBLE IN EXPOSED STRUCTURAL AREAS UNLESS OTHERWISE NOTED.
 - ALL GAS/WATER PIPING INDICATED IS TO BE INSTALLED TO UNDERSIDE OF WOOD FLOOR JOIST UNLESS OTHERWISE NOTED.
 - ALL GAS PIPING HAS BEEN SIZED AS PER THE INTERNATIONAL FUEL GAS CODE. THE SIZING CRITERIA IS AS FOLLOWS: GAS PRESSURE OF 0.5 PSI, PRESSURE DROP OF 0.3 IN. W.C., SPECIFIC GRAVITY OF 0.6 AND PIPE LENGTH OF 150'-0". THE TOTAL CONNECTED GAS LOAD IS 3659 CFH.
 - REFER TO THE SCHEDULES, DETAILS AND DIAGRAMS FOR ANY PIPING/PIPE SIZES NOT INDICATED ON FLOOR PLANS.

- CONSTRUCTION NOTES**
- PIPING CONTINUED BY GENERAL/SITE UTILITY CONTRACTOR. REFER TO CIVIL ENGINEERING DRAWINGS FOR COORDINATION.
 - ACTUAL SIZE SHALL BE DETERMINED BY FIRE SUPPRESSION CONTRACTOR.
 - FIRE SERVICE RISER TO FURNISHED AND INSTALLED BY FIRE SUPPRESSION CONTRACTOR. REFER TO WATER SERVICE DETAIL ON THIS SHEET FOR CLARIFICATION.
 - 1.5" WATER METER (100 GPM) FURNISHED AND INSTALLED BY LOCAL WATER DEPARTMENT. PLUMBING CONTRACTOR IS RESPONSIBLE FOR METER SPREAD AND ALL ASSOCIATED PIPING. REFER TO WATER SERVICE DETAIL ON SHEET FOR FURTHER INSTALLATION REQUIREMENTS.
 - 2" REDUCED PRESSURE BACKFLOW PREVENTER, WATTS #0090T-S OR APPROVED EQUAL. WITH DISCHARGE PIPING TO BE DIRECTED AND AIR-GAPPED OVER NEAREST FLOOR DRAIN.
 - KITCHEN WASTE INTERCEPTOR, ZURN #GT2702-35 (35 GPM) OR APPROVED EQUAL.
 - KITCHEN WASTE INTERCEPTOR, ZURN #GT2702-50 (50 GPM) OR APPROVED EQUAL.
 - SANITARY PIPING TO BE HELD AS TIGHT AS POSSIBLE TO WOOD FLOOR JOISTS.
 - VENT PIPING FROM KITCHEN WASTE INTERCEPTOR'S FLOW CONTROL DEVICE.
 - DUPLEX SEWAGE EJECTOR AND BASIN. REFER TO DETAIL ON THIS SHEET FOR FURTHER INSTALLATION REQUIREMENTS.
 - SANITARY PIPING CONTINUED ON FIRST FLOOR PLAN ON SHEET P-203.
 - 1.5" COLD WATER, 1.25" HOT WATER AND 0.75" HOT WATER RETURN PIPING TO RISE IN WALL ABOVE TO SERVE FIRST FLOOR.



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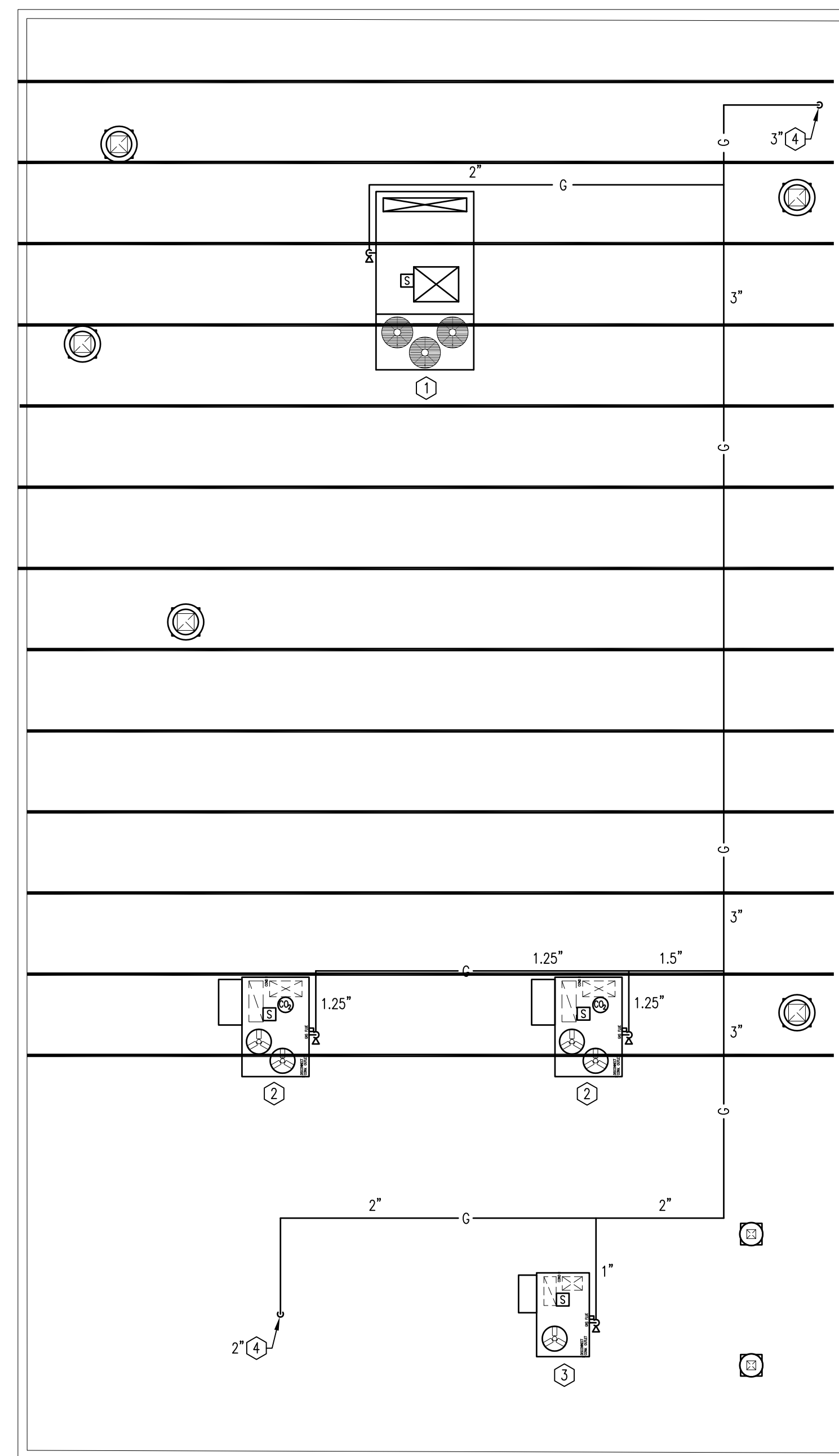
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REVISION Δ	10/25/2021
REVISION Δ	11/12/2021
REVISION Δ	12/17/2021
PROJECT No.:	
2020-09	

SHEET NAME:
BASEMENT PLAN - NEW WORK & DETAILS

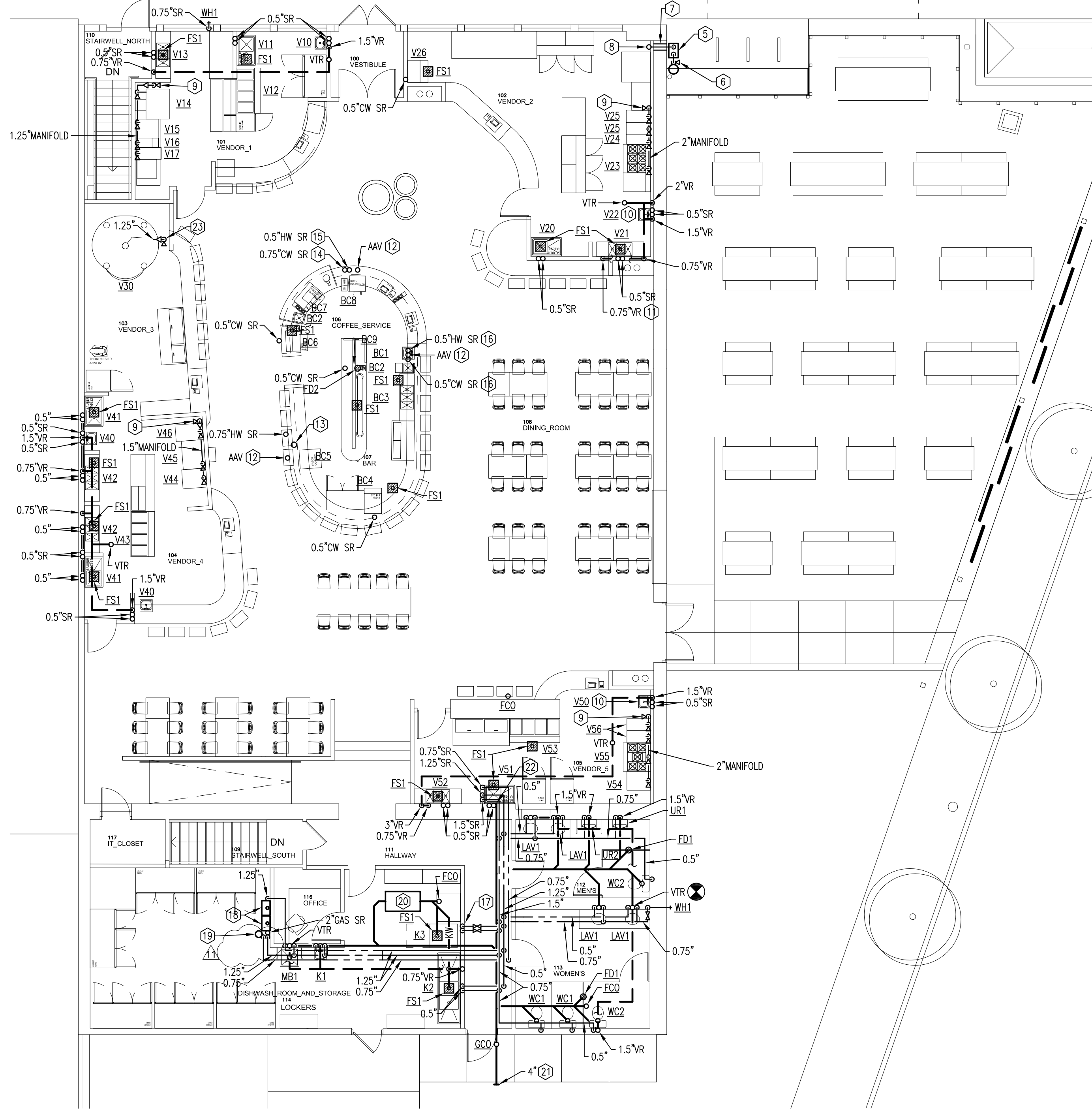
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Project #: 20013

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1 ROOF PLAN
Scale: 1/8" = 1'-0"



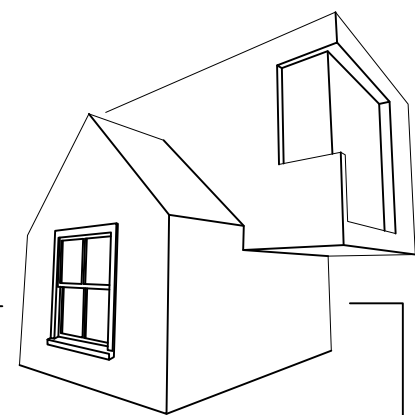
2 FIRST FLOOR
Scale: 1/8" = 1'-0"

GENERAL NOTES

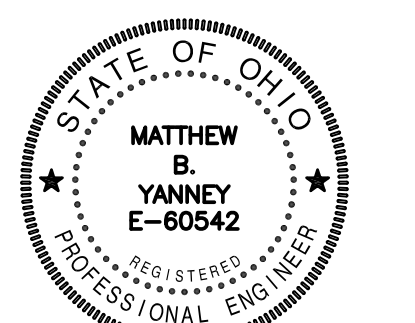
- A. ALL SANITARY PIPING INDICATED IS TO BE INSTALLED BELOW THE FLOOR UNLESS OTHERWISE NOTED.
- B. ALL VENT PIPING INDICATED IS TO BE INSTALLED AS HIGH AS POSSIBLE IN EXPOSED STRUCTURAL AREAS UNLESS OTHERWISE NOTED.
- C. ALL WATER PIPING INDICATED IS TO BE INSTALLED ABOVE THE LAY-IN CEILING UNLESS OTHERWISE NOTED.
- D. ALL GAS PIPING INDICATED IS TO BE INSTALLED ON THE ROOF UNLESS OTHERWISE NOTED. PIPING SHALL BE SUPPORTED AT ALL FITTINGS AND 10'-0" O.C. INTERVALS.
- E. ALL GAS PIPING HAS BEEN SIZED AS PER THE INTERNATIONAL FUEL GAS CODE. THE SIZING CRITERIA IS AS FOLLOWS: GAS PRESSURE OF 0.5 PSI, PRESSURE DROP OF 0.3 IN. W.C., SPECIFIC GRAVITY OF 0.6 AND PIPE LENGTH OF 150'-0". THE TOTAL CONNECTED GAS LOAD IS 3525 CFH.
- F. REFER TO THE SCHEDULES, DETAILS AND DIAGRAMS FOR ANY PIPING/PIPE SIZES NOT INDICATED ON FLOOR PLANS.
- G. ALL PIPE PENETRATIONS THROUGH CONCRETE/WOOD FLOORS SHALL BE SEALED WATERTIGHT AS REQUIRED.

CONSTRUCTION NOTES

- 1. GAS-FIRED ROOFTOP UNIT (598 CFH INPUT) BY HVAC CONTRACTOR. PLUMBING CONTRACTOR RESPONSIBLE FOR ALL GAS PIPING AND FINAL CONNECTION TO UNIT. REFER TO GAS PIPING DETAIL ON SHEET P-202 FOR TYPICAL EQUIPMENT CONNECTION.
- 2. GAS-FIRED ROOFTOP UNIT (180 CFH INPUT) BY HVAC CONTRACTOR. PLUMBING CONTRACTOR RESPONSIBLE FOR ALL GAS PIPING AND FINAL CONNECTION TO UNIT. REFER TO GAS PIPING DETAIL ON SHEET P-202 FOR TYPICAL EQUIPMENT CONNECTION.
- 3. GAS-FIRED ROOFTOP UNIT (115 CFH INPUT) BY HVAC CONTRACTOR. PLUMBING CONTRACTOR RESPONSIBLE FOR ALL GAS PIPING AND FINAL CONNECTION TO UNIT. REFER TO GAS PIPING DETAIL ON SHEET P-202 FOR TYPICAL EQUIPMENT CONNECTION.
- 4. PIPING TO PENETRATE ROOF AT THIS LOCATION. PROVIDE WATERTIGHT SEAL AS REQUIRED.
- 5. GAS METER FURNISHED AND INSTALLED BY LOCAL GAS AUTHORITY. PLUMBING CONTRACTOR RESPONSIBLE FOR METER SPREAD, REGULATOR AND ALL ASSOCIATED PIPING AS PER LOCAL GAS AUTHORITIES RULES AND REGULATIONS.
- 6. 4" INCOMING GAS SERVICE CONTINUED ON BASEMENT PLAN SHEET P-202.
- 7. PROVIDE WALL SLEEVE AND SEAL WATERTIGHT.
- 8. 3" GAS PIPING UP TO THROUGH ROOF AND 4" GAS PIPING DOWN THROUGH FLOOR.
- 9. 2" GAS PIPING TO PENETRATE THROUGH FLOOR. PROVIDE SHUT-OFF VALVE ON RISER APPROX. 6" A.F.F. WITH A PIPE REDUCER DOWNSTREAM OF SHUT-OFF VALVE (IF NECESSARY). REDUCER TO BE SIZED AS INDICATED TO SERVE MANIFOLD.
- 10. ALL SANITARY/VENT/WATER PIPING TO SERVE HAND SINK SHALL RUN ALONG WALL AS INDICATED.
- 11. VENT PIPING TO RUN LOW IN WALL TO VENT RISER ALONG WALL.
- 12. AIR ADMITTANCE VALVE, STUDOR "MINI-VENT" OR APPROVED EQUAL, TO BE MOUNTED AS HIGH AS POSSIBLE IN PARTIAL HEIGHT WALL ON SANITARY RISER.
- 13. 6" DIA. HUB DRAIN WITH OPEN END EXTENDING 2" A.F.F..
- 14. COLD WATER TO RISE IN WALL; OFFSET AND RUN FULL-SIZE MANIFOLD LOW IN WALL TO SERVE ICE MAKER, DUMP SINK, ESPRESSO MACHINE AND COFFEE BREWER.
- 15. HOT WATER TO RISE IN WALL TO SERVE DUMP SINK.
- 16. COLD/HOT WATER TO RISE IN WALL; OFFSET AND RUN FULL-SIZE MANIFOLD LOW IN WALL TO SERVE HAND SINK, DUMP SINK AND BAR SINK.
- 17. COLD/HOT WATER TO RISE IN WALL; OFFSET AND RUN FULL-SIZE MANIFOLD LOW IN WALL TO SERVE DISHWASHER.
- 18. GAS-FIRED TANKLESS WATER HEATER MOUNTED ON WALL. REFER TO DETAIL ON SHEET P-202 FOR FURTHER INSTALLATION REQUIREMENTS.
- 19. HOT WATER REDIRCULATING PUMP. REFER TO WATER HEATER DETAIL ON SHEET P-202 FOR FURTHER INSTALLATION REQUIREMENTS.
- 20. KITCHEN WASTE INTERCEPTOR, ZURN #GT2702-75 (75 GPM) OR APPROVED EQUAL, WITH TOP FLUSH WITH FLOOR SLAB.
- 21. PIPING CONTINUED BY GENERAL/SITE UTILITY CONTRACTOR. REFER TO CIVIL ENGINEERING DRAWINGS FOR COORDINATION.
- 22. SANITARY PIPING CONTINUED ON BASEMENT PLAN ON SHEET P-202.
- 23. 1.5" GAS PIPING TO PENETRATE THROUGH FLOOR. PROVIDE SHUT-OFF VALVE ON RISER APPROX. 6" A.F.F. WITH A PIPE REDUCER DOWNSTREAM OF SHUT-OFF VALVE (IF NECESSARY). REDUCER TO BE SIZED AS INDICATED TO SERVE MANIFOLD.



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Matthew B. Yanney

WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1106 W. Third Street, Dayton, OH 45402

REVISION	DATE
PERMIT	08/21/2020
REVISION A	10/13/2020
REVISION B	06/22/2021
REVISION C	09/14/2021
REVISION D	09/28/2021
REVISION E	10/13/2021
REVISION F	10/25/2021
REVISION G	11/12/2021
REVISION H	12/17/2021
PROJECT No.:	
2020-09	

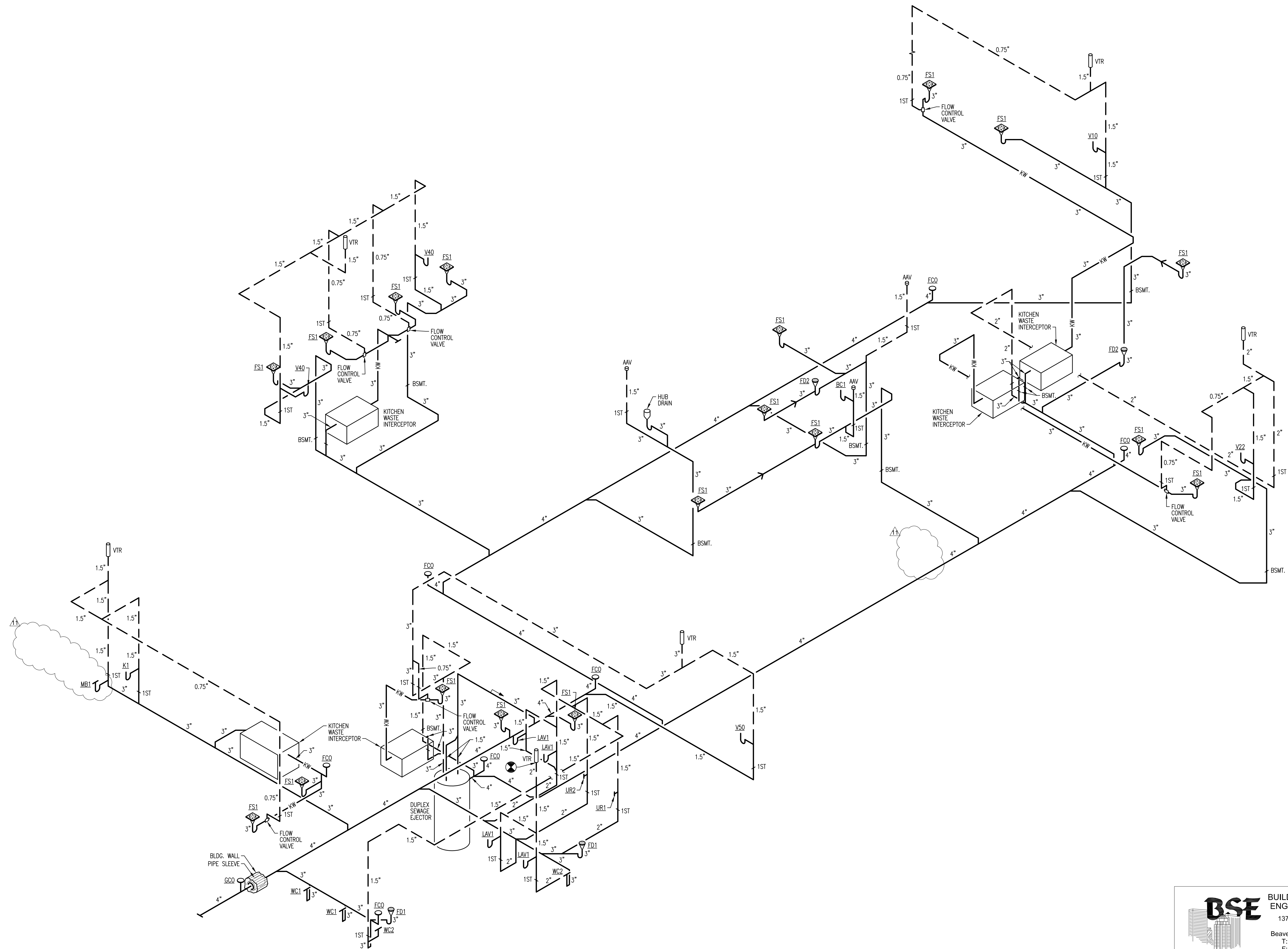
SHEET NAME:
ROOF & FIRST FLOOR PLANS - NEW WORK

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PROJECT No.:	
2020-09	

SHEET NAME:
SOIL, WASTE & VENT DIAGRAM

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ROOFTOP UNIT SCHEDULE

UNIT TAG	AREA SERVED	GENERAL										ELECTRICAL										DX-COOLING				NATURAL GAS HEAT				POWER SUPPLY (NOTE H)				MANUFACTURER		NOTES
		NOMINAL TONS	NOMINAL CFM	CONFIGURATION D = DOWN, H = HORIZ.	ART EER	APPROX. UNIT WEIGHT (LBS) (WITHOUT ROOF CURB)	EXTERNAL S.P. (IN W.G.)	MINIMUM OUTSIDE AIR (CFM)	NO. MOTORS	MOTOR HP (EACH)	MOTOR FLA (EACH)	NO. COMPRESSORS	MOTOR RLA (EACH)	NO. MOTORS	MOTOR HP (EACH)	MOTOR FLA (EACH)	MOTOR HP	MOTOR FLA	TOTAL SENSIBLE (1000 BTUH)	GROSS SENSIBLE (1000 BTUH)	INPUT (1000 BTUH) (2nd STAGE)	OUTPUT (1000 BTUH) (2nd STAGE)	AFUE%	HEATING STAGES	VOLTAGE/PHASE/60 HZ	MIN. CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION (MOCP)	ACCESSORIES (SEE LIST BELOW)	CARRIER CATALOG NO.							
																														SUPPLY (EVAP) FAN	COMPRESSOR	CONDENSER FAN	COMB. FAN	EAT 80°F DB/ 67°F WB 95°F AMBIENT	HEATING STAGES	
RTU1	DINING	10.0	3,400	D	11.5	1090	0.6"	1000	1	2.48hp	5.2	2	15.9	1	1.0hp	6.2	0.48	118.0	84.3	180.0	148.0	82	2	208/3	48	60	1,2,3,4,5,6	48HCDE12F1A3A6F000								
RTU2	DINING	10.0	3,400	D	11.5	1090	0.6"	1000	1	2.48hp	5.2	2	15.9	1	1.0hp	6.2	0.48	118.0	84.3	180.0	148.0	82	2	208/3	48	60	1,2,3,4,5,6	48HCDE12F1A3A6F000								
RTU3	KITCHEN/PREP	4.0	1,400	D	13.0	600	0.6"	280	1	1.2hp	4.9	1	13.7	1	0.25hp	3.5	0.48	49.5	35.7	115.0	90	81	2	208/3	24	30	1,2,3,4,5	48HCEA050A3A0F0A0								

GENERAL NOTES:
 A. ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE POWER SERVICE TO ROOFTOP UNIT. ADEQUACY OF LISTED CIRCUIT SIZE MUST BE VERIFIED BY THE UNIT SUPPLIER. COST FOR INCREASE OR CHANGE SHALL BE BORNE BY THE HVAC CONTRACTOR.
 B. ROOF CURBS SHALL BE FULL PERIMETER TYPE AND PROVIDED BY UNIT MANUFACTURER.
 C. REFRIGERANT: R-410A (PURON)
 D. SUBMITTALS TO INCLUDE INSTALLATION AND WIRING DIAGRAMS. IT'S THE RESPONSIBILITY OF THE M.C. TO PROVIDE AND COORDINATE THE FINAL EQUIPMENT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
 E. MFR MODEL NUMBERS SHOWN DO NOT INDICATE ALL FACTORY- OR FIELD-INSTALLED ACCESSORIES OR DEVICES. IT'S THE M.C.'S RESPONSIBILITY TO PROVIDE AND COORDINATE ALL EQUIPMENT REQUIREMENTS WITH THE UNIT MANUFACTURER'S REPRESENTATIVE TO ENSURE ALL SPECIFICATION REQUIREMENTS ARE MET.
 F. SUBMITTALS TO INCLUDE INSTALLATION AND WIRING DIAGRAMS. IT'S THE RESPONSIBILITY OF THE M.C. TO PROVIDE AND COORDINATE THE FINAL EQUIPMENT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
 G. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UNIT DISCONNECT AND CONVENIENCE OUTLET TO COMPLY WITH NEC REQUIREMENTS.
 H. POWER REQUIREMENTS SHOWN ARE FOR UNITS THAT DO NOT HAVE A FACTORY INSTALLED AND POWERED DISCONNECT AND CONVENIENCE OUTLET. THE M.C. SHALL COORDINATE NAMEPLATE DATA OF PURCHASED EQUIPMENT FOR FINAL POWER CONNECTION REQUIREMENTS WITH THE E.C.

VENTILATION AIR SCHEDULE

NUMBER	NAME	ROOM AREA (SQ. FT.)	AREA SERVED BY ROOFTOP UNIT #	NO. OF PEOPLE	NO. OF FIXTURES	ASHRAE 62.1-2010 MINIMUM OUTSIDE AIR REQUIREMENTS				AIR DISTRIBUTION			
						EST. MAX. OCCUPANCY (P/1000 SQ. FT.)	OA CFM / PERSON	EXHAUST CFM/FIXTURE	OA CFM / SQ. FT.	OA CFM - CODE MINIMUM	OA CFM - DESIGN	SUPPLY AIR CFM	RETURN AIR CFM
FIRST FLOOR													
100	DINING/BAR	4700	RTU1/2	135		7.5	.18	2001	2015	6500	6500		
001	MEN'S RESTROOM	129	RTU3	3		70		22	29	195		210	
002	WOMEN'S RESTROOM	182	RTU3	3		70		22	29	195		210	
003	CORRIDOR	204	RTU3			.06		32	45	300		300	
004	DISHWASHING/STORAGE	375	RTU3	6		7.5	.18	59	84	560		560	
005	MGMT OFFICE/SECURITY	55	RTU3	1		5	.06	13	19	125		125	

FAN SCHEDULE

UNIT TAG	TYPE	AREA/ROOMS SERVED	CFM	STATIC PRESSURE	DRIVE			ELECTRICAL			APPROXIMATE ROOF OPENING	CONTROLS & ACCESSORIES (SEE BELOW)	MANUFACTURER	NOTES	
					DIRECT DRIVE	BELT DRIVE	VFD	FAN RPM	MOTOR HP	MOTOR FLA					VOLTAGE/PHASE/60 HZ
KHEF1	CEILING EXHAUST FAN	VENDOR 1	1,600	1.15"	●	-	-	1376	1.0	11.6	115/1		1,9,11	CAPTIVEAIRE-DUBSHFA	1
KHEF2	INLINE EXHAUST FAN	VENDOR 2	1,600	1.15"	●	-	-	1376	1.0	11.6	115/1		1,9,11	CAPTIVEAIRE-DUBSHFA	
KHEF3	UPBLAST EXHAUST FAN	VENDOR 3: PIZZA OVEN	200	0.35"	●	-	-	922	0.25	4.8	115/1		1,9,11	CAPTIVEAIRE-NCABFA	
KHEF4	POWER ROOF VENTILATOR	VENDOR 4	1,600	1.0"	●	-	-	1376	1.0	11.6	115/1		1,9,11	CAPTIVEAIRE-DUBSHFA	
KHEF5	GRAVITY ROOF VENTILATOR	VENDOR 5	1,800	1.0"	●	-	-	1376	1.0	11.6	115/1		1,9,11	CAPTIVEAIRE-DUBSHFA	1
EF1	PADDLE FAN	MEN'S RESTROOM	210	0.35"	●	-	-	1050	81W	0.72	115/1		2,3,4,8,12	SP-A290	2
EF2		WOMEN'S RESTROOM	210	0.35"	●	-	-	1050	81W	0.72	115/1		2,3,4,8,12	SP-A290	2

GENERAL NOTES:
 A. BASIS OF DESIGN: GREENHECK OR AS OTHERWISE INDICATED.
 B. SUBMITTALS SHALL INCLUDE INSTALLATION AND WIRING DIAGRAMS. IT'S THE RESPONSIBILITY OF THE M.C. TO PROVIDE AND COORDINATE THE FINAL EQUIPMENT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
 C. COORDINATE FINISHES FOR ROOF MTD EQUIPMENT AND VENTS WITH ARCHITECT.
CONTROLS & ACCESSORIES:
 1. ROOF CURB PROVIDED BY FAN MANUFACTURER.
 2. INTEGRAL OR PLUG TYPE DISCONNECT SWITCH.
 3. HANGING VIBRATION ISOLATOR KIT.
 4. INSULATED HOUSING.
 5. 12" HIGH ROOF CURB WITH 1" THICK LINER.
 6. WALL MOUNTED FAN CONTROLLER WITH WALL PLATE BY FAN MANUFACTURER.
 7. GRAVITY BACKDRAFT DAMPER.
 8. INTERLOCK WITH LIGHT SWITCH(ES) - BY E.C.
 9. INTERLOCK WITH EQUIPMENT INDICATED.
 10. GALVANIZED BIRDSCREEN.
 11. SPEED CONTROLLER
 12. GRAVITY RELIEF VENTILATOR, GREENHECK GRS-8 WITH MFR. PROVIDED ROOF CURB

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE

UNIT TAG	AREAS/ROOMS SERVED	ARRANGEMENT	SUPPLY AIRFLOW (CFM)	EXTERNAL STATIC	UNIT WEIGHT (LBS)	DX COOLING				HEATING (NATURAL GAS)				ELECTRICAL				CONTROLS & ACCESSORIES (SEE BELOW)	MANUFACTURER	NOTES			
						NOMINAL TONNAGE	UNIT REER	LAT (°)	TOTAL CAPACITY (1000 BTU/HR)	SENSIBLE CAPACITY (1000 BTU/HR)	HEATING TYPE	HEATING INPUT (1000 BTU/HR)	HEATING OUTPUT (1000 BTU/HR)	EAT / LAT (°)	EFFICIENCY (%)	VOLTAGE/PHASE/60 HZ	FAN RPM				MOTOR HP	NO. FANS	MOTOR FLA (EACH)
DOAS1	KITCHEN HOODS	DOWN	6100	0.8"	4,433	25	17,956.3	336.0	198.8	INDIRECT	597.2	477.7	0/66	80	208/3	1274	7.5	3	127.5	150	1,2,3,4,5,6,7	CASRTU4-1600-30-25T-DOAS	

GENERAL NOTES:
 A. ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE POWER SERVICE TO ROOFTOP UNIT. ADEQUACY OF LISTED CIRCUIT SIZE MUST BE VERIFIED BY THE UNIT SUPPLIER. COST FOR INCREASE OR CHANGE SHALL BE BORNE BY THE HVAC CONTRACTOR.
 B. SUBMITTALS TO INCLUDE INSTALLATION AND WIRING DIAGRAMS. IT'S THE RESPONSIBILITY OF THE M.C. TO PROVIDE AND COORDINATE THE FINAL EQUIPMENT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
 C. MFR MODEL NUMBERS SHOWN DO NOT INDICATE ALL FACTORY- OR FIELD-INSTALLED ACCESSORIES OR DEVICES. IT'S THE M.C.'S RESPONSIBILITY TO PROVIDE AND COORDINATE ALL EQUIPMENT REQUIREMENTS WITH THE UNIT MANUFACTURER'S REPRESENTATIVE TO ENSURE ALL SPECIFICATION REQUIREMENTS ARE MET.
CONTROLS & ACCESSORIES:
 1. ROOF CURB BY MANUFACTURER
 2. CONTROL PANEL WITH DISCONNECT, STARTERS.
 3. WEATHERHOOD WITH BIRDSCREEN.
 4. HIGH/LOW GAS PRESSURE SWITCH.
 5. FILTER GAGE WITH PILOT LIGHT.
 6. FILTER SECTION WITH 2" PLEATED MERV 8 FILTERS.
 7. CONVENIENCE OUTLET; FACTORY INSTALLED & WIRED.

HEATING UNIT SCHEDULE

UNIT TAG	AREAS/ROOMS SERVED	TYPE	MOUNTING	HEATING			ELECTRICAL			CONTROLS & ACCESSORIES (SEE BELOW)	MANUFACTURER	NOTES				
				FUEL (DESIGNATION: (O)=OIL, (G)=GAS, (P)=PROPANE, (E)=ELEC.)	HEATING INPUT (FIRST STAGE)	HEATING INPUT (SECOND STAGE)	HEATING STAGES	DELIVERED AIR VOLUME: CFM	RPM				HP	KW	VOLTAGE/PHASE/60 HZ	AMPERES
EWH1	MAIN ENTRY	FUEL-FIRED FURNACE	CEILING	E	6.8	-	-	100	-	-	2	208/1	9.6	1.2	QMARK AWH4408F	1
EWH2	BASEMENT ENTRY	CABINET HEATER	FLOOR	E	6.8	-	-	100	-	-	2	208/1	9.6	1.2	QMARK AWH4408F	1
EUH1	BASEMENT	RADIANT COVE HEATER	RECESSED	E	24.5	-	-	650	1,600	1/30	7.5	208/1	36.0	1,3,4	QMARK MUH-07-8	1
EUH2	BASEMENT	UNIT HEATER	SUSPENDED	E	24.5	-	-	650	1,600	1/30	7.5	208/1	36.0	1,3,4	QMARK MUH-07-8	1
EUH3	BASEMENT	WALL HEATER	FLOOR	E	24.5	-	-	650	1,600	1/30	7.5	208/1	36.0	1,3,4	QMARK MUH-07-8	1
EUH4	BASEMENT	INFRARED RAD TUBE HEATER	RECESSED	E	24.5	-	-	650	1,600	1/30	7.5	208/1	36.0	1,3,4	QMARK MUH-07-8	1

GENERAL NOTES:
 A. PROVIDE EQUIPMENT COMPLETE WITH INTEGRAL DISCONNECT SWITCH OR OVERCURRENT PROTECTION AS REQUIRED BY CODE. COORDINATE WITH E.C.
 B. SUBMITTALS SHALL INCLUDE INSTALLATION AND WIRING DIAGRAMS. IT'S THE RESPONSIBILITY OF THE M.C. TO PROVIDE AND COORDINATE THE FINAL EQUIPMENT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
CONTROLS & ACCESSORIES:
 1. INTEGRAL UNIT THERMOSTAT WITH TAMPER SWITCH.
 2. SURFACE MOUNTING FRAME KIT.
 3. WALL MOUNTING FRAME KIT.
 4. POWER DISCONNECT SWITCH

AIR DEVICE SCHEDULE

DEVICE NO.	STYLE	DIMENSIONS	MOUNTING	MATERIAL	FINISH	ACCESSORIES				MANUFACTURER	NOTES
						OPPOSED BLADE DAMPER	SQUARE-ROUND DAMPER	AIR SCOOP	GRAVITY BACKDRAFT DMPR		
1	ROUND CEILING DIFFUSER	24" x 24" 6" DIA	LAY-IN CEILING	STEEL	ANODIZED	●	●	●	●	PDF	
2	ROUND CEILING DIFFUSER	24" x 24" 8" DIA	SURFACE MOUNT	EXTRUDED ALUMINUM	ANODIZED	●	●	●	●	PDF	
3	LINEAR SLOT DIFFUSER	24" x 24" 10" DIA	DUCT MOUNT	STAINLESS STEEL	ANODIZED	●	●	●	●	PDF	
4	SPRINKL DRIFT DIFFUSER	19.87"x7.25" 18" x 6"	CONCEALED FLANGE	STAINLESS STEEL	ANODIZED	●	●	●	●	SDG-ST	
5	LOWER GRILLE/REGISTER	40" x 40" 40" x 40"	WALL MOUNT	EXTRUDED ALUMINUM	ANODIZED	●	●	●	●	RUSKIN S0D-40	
6	EGGCRATE (1/2"x1/2"x1/2")	8" x 8" 8" x 8"	CONCEALED FLANGE	STAINLESS STEEL	ANODIZED	●	●	●	●	80	
7	DBL. DEFL. GRILLE/REG.	24" x 24" 24" x 24"	WALL MOUNT	STAINLESS STEEL	ANODIZED	●	●	●	●	80	
8	CONCENTRIC DIFFUSER	24" x 48" 24" x 48"	WALL MOUNT	STAINLESS STEEL	ANODIZED	●	●	●	●	80	

GENERAL NOTES:
 A. BASIS OF DESIGN FOR AIR DEVICES SHALL BE PRICE.
 B. SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE NOTED ON THE DRAWING.
 C. AIR DEVICE NUMBER NOMENCLATURE:
 # = NEW AIR DEVICE PER SCHEDULE
 E = EXISTING AIR DEVICE TO REMAIN
 R = RELOCATED EXISTING AIR DEVICE
 D. COORDINATE LOCATION OF ALL AIR DEVICES WITH ARCHITECTURAL, ELECTRICAL AND FIRE PROTECTION REFLECTED CEILING PLANS. MOVE AIR DEVICE AS NECESSARY. PROVIDE BLANK-OFFS AS REQUIRED OR AS SHOWN.
 E. COORDINATE MOUNTING HEIGHT OF WALL-MOUNTED AIR DEVICES WITH ARCHITECT AND PLANS BEFORE DOING ANY ROUGH-IN WORK.
NOTES:
 1. SET TO VERTICAL AIR PATTERN TO LONG DIMENSION.

AIR BALANCE CALCULATION

DESCRIPTION	OUTSIDE AIR: (+ CFM)	EXHAUST AIR: (- CFM)
H.V.A.C. OUTDOOR AIR: RTU's 1 & 2	+2,015	
KITCHEN HOOD MAKE UP AIR THRU DOAS1	+5,643	
KITCHEN HOOD EXHAUST: VENDORS 1, 2, 4, & 5		-6,600
PIZZA OVEN HOOD EXHAUST: VENDOR 3		-350
H.V.A.C. OUTDOOR AIR: RTU 3	+293	
RESTROOM EXHAUST		-420
TOTALS	+7,951	-7,370

MINIMUM OVERALL BUILDING PRESSURE (CFM) = +581

NOTES:
 1. ROOFTOP UNITS RTU1, RTU2, AND RTU3 WILL BE PROVIDED WITH AN ECONOMIZER /BAROMETRIC RELIEF IN ORDER TO RELIEVE THE EXCESS AIR IN THE BUILDING WHENEVER THE COMMERCIAL KITCHEN HOODS SERVING VENDORS 1 THRU 5 AND THEIR ASSOCIATED EXHAUST FANS KHEF1 THRU KHEF5 ARE NOT IN OPERATION.

1. INTEGRAL THERMOSTAT SHALL BE SET AT 65°F MINIMUM OR AS SPECIFIED BY THE OWNER. HEATER SHALL ENGAGE WHEN SPACE TEMPERATURE FALLS BELOW SETPOINT AND RUN UNTIL SPACE TEMPERATURE SETPOINT IS REACHED.

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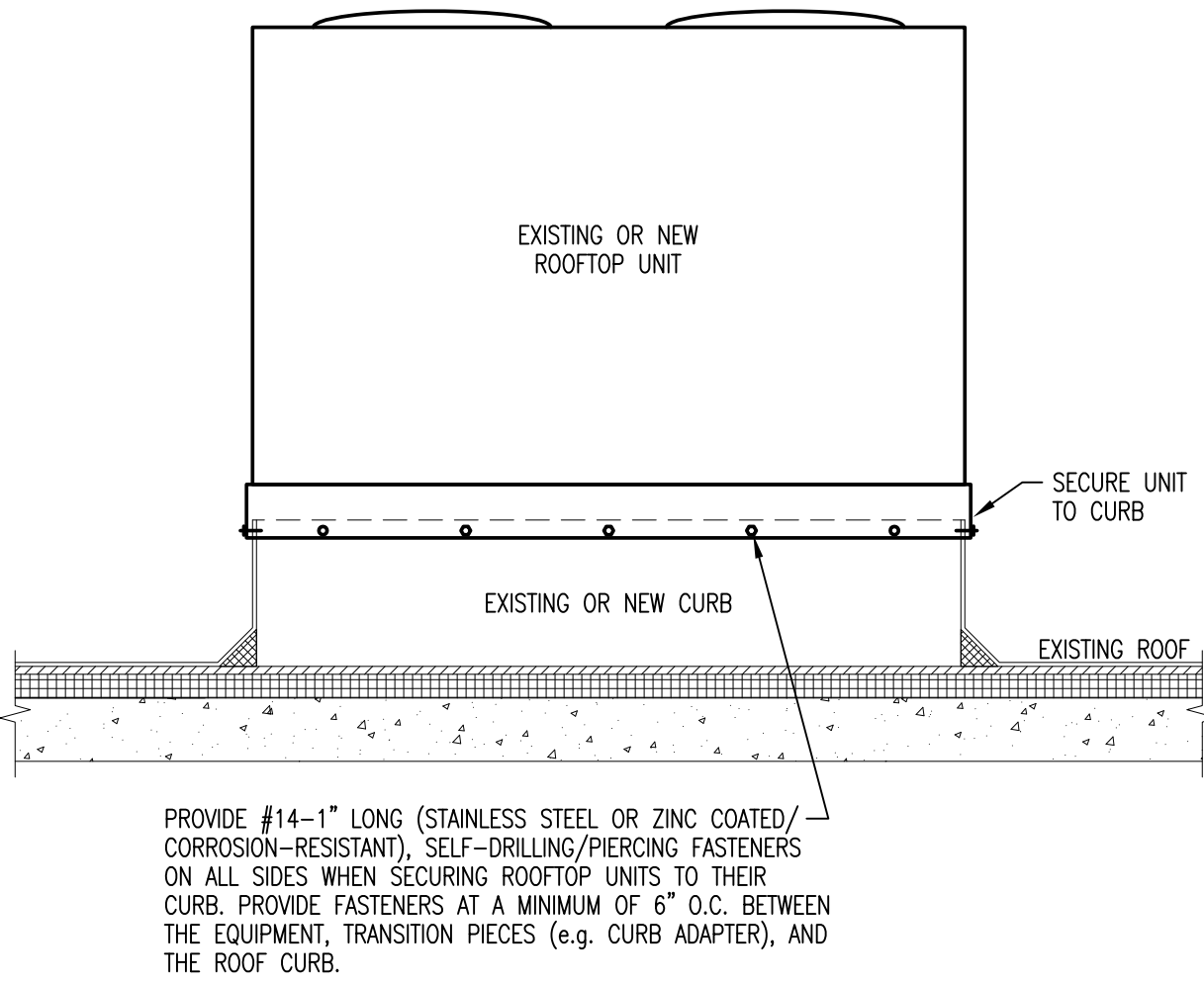
REVISION	DATE
PERMIT	08/21/2020
REVISION A	10/13/2020
REVISION B	06/22/2021
REVISION C	09/14/2021
REVISION D	09/28/2021
REVISION E	10/13/2021
REVISION F	10/25/2021

PROJECT No.:
2020-09

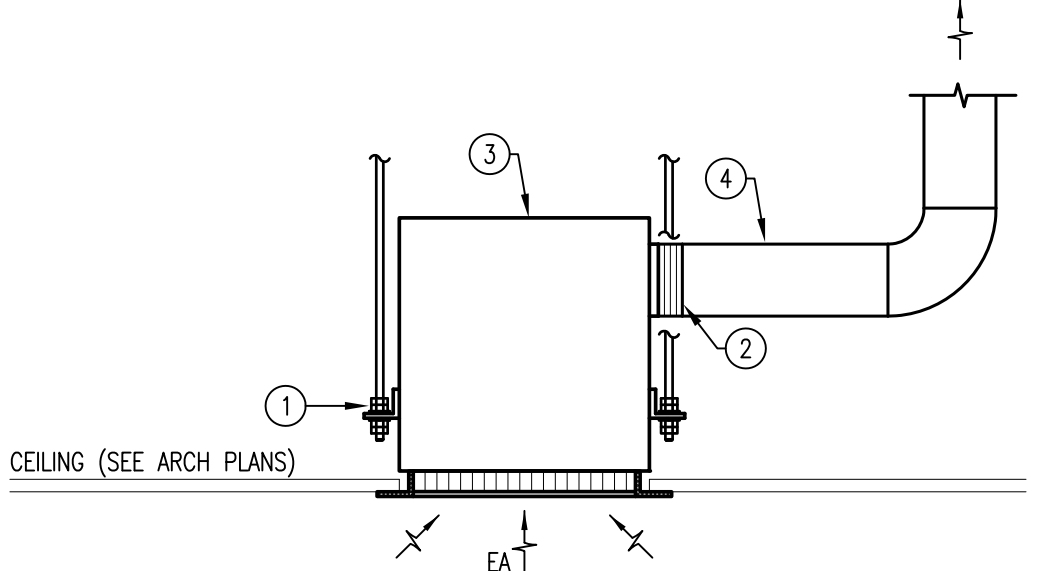
SHEET NAME:
SCHEDULES

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 Project #: 20013

This unit attachment drawing was created to show that the rooftop unit installation complies for high wind (115 mph, OBC, chapter 16, figure 1609) applications per OMC 301.15 "Wind resistance: Mechanical equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with the Building Code."
Equipment attachment information is based on FEMA document "Attachment of Rooftop Equipment in High-Wind Regions".

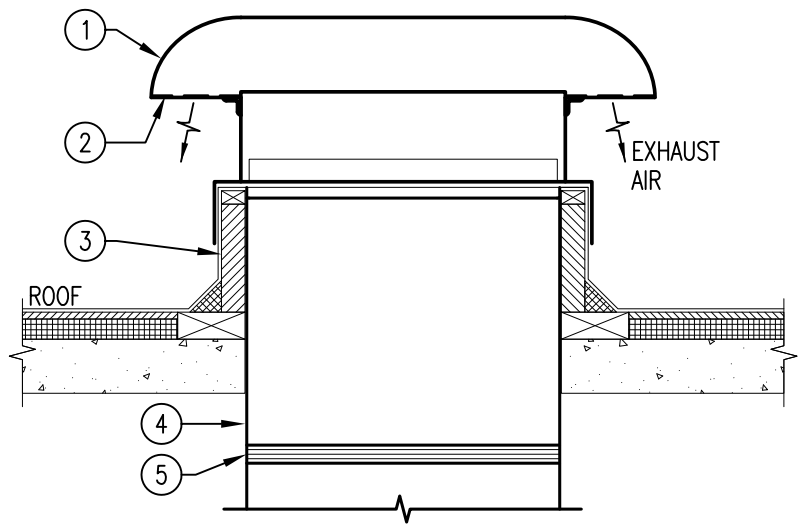


ROOFTOP UNIT SECUREMENT DETAIL
SCALE: NONE



- DETAIL NOTES**
- INSTALL EXHAUST FAN ON VIBRATION KIT BY UNIT MANUFACTURER.
 - FLEXIBLE CANVAS CONNECTION.
 - CEILING MOUNTED EXHAUST FAN.
 - DUCT SIZE TO MATCH FAN CONNECTION OR AS INDICATED ON THE PLAN. FLEXIBLE DRYER VENT TYPE DUCTWORK IS NOT PERMITTED. PROVIDE 1" THICK WRAPPED INSULATION ON DUCT TO PREVENT CONDENSATION.
- GENERAL NOTES**
- INSTALL FAN LEVEL AND PLUMB IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - REFER TO FAN SCHEDULE, DRAWING NOTES AND SPECIFICATIONS FOR FURTHER INFORMATION.
 - COORDINATE DUCTWORK ROUTING WITH FRAMING PLANS AND OTHER TRADES.
 - TERMINATE DUCT AS SHOWN ON THE PLANS. SEAL AROUND ALL OPENINGS WEATHERTIGHT.
 - PROVIDE 1" THICK MINIMUM FIBERGLASS WRAPPED INSULATION TO AVOID CONDENSATION. INSULATE THE BACK OF ALL AIR DEVICES.

EXHAUST FAN (CEILING MTD)
SCALE: NONE



- DETAIL NOTES**
- RELIEF HOOD WITH REMOVABLE WEATHERPROOF HOUSING. FASTEN STANDARD CURB BASE TO CURB PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - GALVANIZED BIRD SCREEN.
 - 12" HIGH ROOF CURB BY GRV MFR; VERIFY ROOF TYPE BEFORE ORDERING CURB AND FLASHING.
 - DUCT EXTENSION, SAME SIZE AS FAN/DAMPER OPENING. PROVIDE SMOOTH TRANSITION TO DUCT SIZE AS SHOWN ON PLANS.
 - FLEXIBLE CANVAS CONNECTION; REFER TO SPEC'S.
- GENERAL NOTES**
- INSTALL RELIEF HOOD LEVEL AND PLUMB AND IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - REFER TO FAN SCHEDULE, DRAWING NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - COORDINATE ROOF OPENING AND DUCTWORK ROUTING WITH FRAMING PLANS. SHIFT LOCATION AS NECESSARY BASED ON PROJECT CONDITIONS.
 - THE EQUIPMENT MANUFACTURER MAY OUTLINE FLASHING METHODS, STRUCTURAL OPENING REQUIREMENTS, SEALING, TECHNIQUES, ETC. WHICH MUST BE COORDINATED WITH PROJECT CONSTRUCTION AND ROOFING CONTRACTOR.

GRAVITY RELIEF VENTILATOR (CURB MTD)
SCALE: NONE

DEHUMIDIFIER UNIT SCHEDULE												
UNIT NO.	AREA SERVED	UNIT CONNECTIONS		UNIT SPECIFICATIONS					ELECTRICAL	MANUFACTURER	NOTES	
		INLET SIZE (INCHES)	DISCHARGE SIZE (INCHES)	DESIGN AIRFLOW RATE (CFM @ 0.07 S.P.)	CAPACITY (GAL./PHIS PER DAY)	INLET AIR CONDITIONS (DEG. F)	VENTILATION (DEG. F)	RELATIVE HUMIDITY (NON-CONDENSING)				VOLTAGE/PHASE/60 HZ
DH1	BASEMENT	-	-	310	16/130	50-104	40-140	0-99	115/1	8.3	1872	-

GENERAL NOTES:

- PROVIDE ALL POWER AND WIRING DIAGRAMS TO ELECTRICAL CONTRACTOR FOR THEIR USE AND COORDINATION.
- PROVIDE FULL SIZE HARD PIPE DRAIN LINE FROM UNIT TO NEAREST FLOOR DRAIN.

KITCHEN VENTILATION SYSTEM NOTES

- KITCHEN HOOD EXHAUST DUCTWORK SHALL COMPLY WITH OBC M-506 AND NFPA 96. DUCTWORK SHALL BE CARBON-STEEL SHEET OR DOUBLE-WALL, ZERO CLEARANCE GREASE DUCT. EXPOSED DUCTWORK SHALL BE TYPE 304 STAINLESS STEEL WITH FINISH TO MATCH HOOD. DETAILS AND DUCTWORK INFORMATION SHOWN ARE FOR CARBON-STEEL DUCTWORK; ZERO CLEARANCE GREASE DUCT TO BE SIMILAR.
- DUCTWORK INSTALLATION SHALL COMPLY WITH OBC M-506 AND NFPA 96 AND THE MFR'S INSTRUCTIONS FOR FACTORY-FABRICATED GREASE DUCT SYSTEMS. FIRE SEAL AROUND ALL DUCTWORK PENETRATIONS. INSTALL DUCTS TO ALLOW FOR THERMAL EXPANSION THROUGH 2000 DEG. F TEMPERATURE RANGE. FOR CARBON STEEL DUCTS, PROVIDE HIGH TEMPERATURE WRAPPED BLANKET INSULATION WITH A MINIMUM 1-HR FIRE RATING UL 1978 LABELED FOR ZERO CLEARANCE TO COMBUSTIBLES. FIRE WRAP SHALL BE FVRE WRAP MAX 2.0 OR EQUAL.
- GREASE DUCTS SHALL BE SIZED FOR 1500 FPM MINIMUM. CONTRACTOR MAY RE-SIZE DUCTWORK TO FIT FIELD CONDITIONS IF NECESSARY.
- COMMERCIAL KITCHEN HOOD: TYPE 1 HIGH EFFICIENCY FILTER EXHAUST HOOD SHALL HAVE A PRE-PIPED FIRE SUPPRESSION SYSTEM, BE UL LISTED WITHOUT FIRE DAMPER AND HAVE A ZERO CLEARANCE TO COMBUSTIBLE RATING WITH A 3" REAR STANDOFF. KITCHEN HOOD MATERIAL, INSULATION AND ASSOCIATED EQUIPMENT AND DUCTWORK SHALL COMPLY WITH OBC M-506 AND ALL REFERENCED SECTIONS.
- HOOD SUPPRESSION SYSTEM: SYSTEM SHALL BE PRE-PIPED IN HOOD WITH SCHEDULE 40 BLACK IRON PIPE, CHROME APPLIANCE DROPS, DETECTORS AND NOZZLES. FINAL CONNECTIONS AND ACTIVATION FOR THE ANSUL SYSTEM SHALL BE BY A CERTIFIED ANSUL TECHNICIAN.
- MAKEUP AIR: SHALL BE PROVIDED BY MECHANICAL SYSTEM SERVING THIS SPACE IN ADDITION TO THE SYSTEMS SERVING THE FOOD HALL. THE KITCHEN HOOD SYSTEM SHALL BE INTERLOCKED WITH THE ROOFTOP UNITS SERVING THE FOOD HALL TO ENSURE THAT MAKEUP AIR IS PROVIDED WHENEVER THE EXHAUST SYSTEM IS IN OPERATION TO COMPLY WITH OBC M-508.
- IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED DOCUMENTATION AND ADDITIONAL DETAILS, SHOP DRAWINGS, ETC. AS NECESSARY TO OBTAIN A HOOD PERMIT BASED ON THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.

GENERAL NOTES

- INSTALL ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS, IN ACCORDANCE WITH THE MFR'S RECOMMENDATIONS, AS SPECIFIED AND AS REQUIRED BY ALL APPLICABLE STATE, CITY AND LOCAL CODES AND REGULATIONS. ALL MECHANICAL WORK SHALL BE INSPECTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO COVER-UP.
- CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY UNLESS NOTED OTHERWISE. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST RESULTS MUST BE DETERMINED AND COORDINATED WITH EXISTING CONDITIONS AND, WHERE NECESSARY, SHALL BE APPROVED BY THE OWNER TO ENSURE HIS PROJECT NEEDS ARE MET WITH REGARDS TO DAILY OPERATIONS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES AND WITH ANY EXISTING JUSTICE CONDITIONS PRIOR TO THE INSTALLATION OF EQUIPMENT AND FABRICATION OF DUCTWORK. CONTRACTOR MAY MAKE REASONABLE REVISIONS OR CHANGES TO THE LOCATION OF EQUIPMENT, PIPING, OR DUCTWORK AS REQUIRED TO AVOID CONFLICT WITH OTHER BUILDING TRADES, WITH NO ADDITIONAL COST TO THE ARCHITECT, ENGINEER OR OWNER.
- EQUIPMENT SCHEDULES ARE PROVIDED FOR INFORMATIONAL PURPOSES AND ARE SUPERSEDED BY SHOP DRAWINGS. REFER TO SHOP DRAWINGS FOR THE MFR'S INSTALLATION AND OPERATION INSTRUCTIONS, AND PERFORMANCE CRITERIA.
- EQUIPMENT VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE. PROVIDE FAN BALANCING FOR TO TAKE ANY VIBRATIONS OUT OF MOTOR DRIVES.
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC). LOW VOLTAGE AND CONTROL WIRING SHALL BE BY CONTRACTOR; LINE VOLTAGE WIRING SHALL BE BY A LICENSED ELECTRICIAN.
- COORDINATE LOCATION OF ALL AIR DEVICES WITH REFLECTED CEILING PLANS, SPRINKLER HEAD LAYOUTS, FRAMING PLANS, ETC. PRIOR TO DOING ANY ROUGH-IN OR INSTALLATION WORK. PROVIDE DUCT RUNOUTS TO DIFFUSERS, GRILLES AND REGISTERS SAME SIZE AS THE DEVICE NECK UNLESS NOTED OTHERWISE.
- THE DETAILS SHOWN OR DESCRIBED WITHIN THE CONTRACT DOCUMENTS ARE TYPICAL. ALL DUCTWORK, PIPING AND EQUIPMENT CONNECTIONS AND/OR SYSTEM ASSEMBLIES SHALL BE PER THE SPECIFIC DETAIL. TYPICAL DETAILS INDICATE THE MINIMUM REQUIREMENTS; WHERE CODE AND/OR MANUFACTURER'S REQUIREMENTS ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL APPLY.
- THE CONTRACT DOCUMENTS (DRAWINGS, SPECIFICATIONS, ADDENDUMS, ETC.) DO NOT, EITHER IN WHOLE OR IN PART, CONSTITUTE ANY DIRECTION OR INSTRUCTION TO THE AWARDED CONTRACTOR (GENERAL, TRADES AND SUBCONTRACTORS) WITH RESPECT TO CONSTRUCTION MEANS, METHODS OR TECHNIQUES.
- ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE SUPPORTED FROM METAL ROOF DECKING; SUPPORT FROM STRUCTURE.
- EQUIPMENT: PROVIDE SERVICE AND OPERATING CLEARANCES AROUND ALL SIDES OF EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED REQUIREMENTS AND RECOMMENDATIONS.
- CONCEALED SUPPLY AND RETURN AIR DUCTWORK LOCATED BELOW ROOF SHALL BE WRAPPED WITH 2" THICK FSK INSULATION (R-6 VALUE AFTER INSTALLATION). INSULATE THE BACK OF ALL AIR DEVICES TO AVOID CONDENSATION.
- ALLOWABLE LENGTH OF FLEXIBLE DUCT FOR CONNECTIONS TO AIR DEVICES SHALL NOT BE 7' IN LENGTH. SUPPORT DUCTWORK PER SMACNA AND INSTALL WITHOUT SHARP BENDS, KINKS, ETC. FLEXIBLE AIR CONNECTORS SHALL NOT PASS THROUGH ANY WALL, FLOOR, CEILING OR FIRE-RESISTANCE-RATED ASSEMBLY PER OMC 607.7.
- ALL DUCTWORK AND PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTWORK AND PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- THE MECHANICAL CONTRACTOR HAS THE OPTION OF PROVIDING ROUND, SPIRAL OR RECTANGULAR DUCT WITH WRAPPED INSULATION OR RECTANGULAR DUCT WITH 1" THICK ACOUSTICAL LINER UNLESS NOTED OTHERWISE. VERIFY AND COORDINATE DESIGN INTENT WITH ENGINEER BEFORE MAKING MAJOR DUCTWORK AND LAYOUT MODIFICATIONS. DUCTS MAY BE RE-SIZED AT 0.08" TO 0.10" W.G. PER 100' OF DUCT AS NECESSARY BASED ON FIELD CONDITIONS.
- MINIMUM REQUIRED MANUAL BALANCING DAMPERS WITH LOCKING QUADRANT ARE SHOWN; BALANCE AND LOCK AT REQUIRED CFM. COORDINATE WITH THE AIR BALANCE CONTRACTOR AND PROVIDE ADDITIONAL DAMPERS AS RECOMMENDED.
- WORKMANSHIP: INSTALL ALL WORK IN A WORKMANLIKE MANNER THAT PROVIDES A FIRST CLASS COMPLETED INSTALLATION. REMOVE, CORRECT AND REPLACE ANY WORK DEEMED UNACCEPTABLE AT THE DISCRETION OF THE ARCHITECT AND/OR ENGINEER EVEN IF INSTALLATION HAS ALREADY BEEN INSPECTED AND APPROVED BY THE JURISDICTION HAVING AUTHORITY.
- ALL MATERIALS USED AND LOCATED ABOVE THE CEILING (DUCTWORK, INSULATION, CONTROL WIRING AND TUBING, FLEX CONNECTIONS, ETC.) SHALL BE UL APPROVED FOR USE IN AN AIR PLENUM WHEN CEILING SPACE IS USED AS A RETURN AIR PLENUM.
- AT COMPLETION OF PROJECT AND PRIOR TO TURN-OVER TO THE OWNER, THE CONTRACTOR SHALL CLEAN ALL AIR-HANDLING EQUIPMENT, COMB OUT FINS, WASH COILS, ETC.; PROVIDE NEW FILTERS.
- CONTRACTOR SHALL SEAL AROUND ALL OPENINGS AND PENETRATIONS. PROVIDE TEMPORARY CAPS OR COVERS AT ALL DUCT, REGISTER AND GRILLE OPENINGS TO MINIMIZE CONTAMINATION DURING CONSTRUCTION.
- LOCATE CENTERLINE OF ALL ROOM THERMOSTATS AT 48" AFF. NOTIFY THE ENGINEER WHERE THIS HEIGHT CANNOT BE MAINTAINED. COORDINATE WITH THE LOCATION OF SWITCHES, ETC. AND ELECTRICAL CONTRACTOR FOR A NEAT APPEARANCE.
- DUCT SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND POWERED IN ALL ROOFTOP UNITS UNLESS OTHERWISE NOTED. DETECTOR INSTALLATION IN RETURN AIR DUCT SHALL COMPLY WITH OMC 606.2 AND REFERENCED SECTIONS. DEVICES SHALL BE MONITORED BY THE SECURITY SYSTEM AND SHALL BE WIRED BACK TO THIS SYSTEM BY THE E.C. COORDINATE ELECTRICAL REQUIREMENTS WITH THE E.C. PRIOR TO ORDERING. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE CONTROL WIRING, CONDUITS, DEVICES, RELAYS, TRANSFORMERS, ETC. REQUIRED FOR INTERLOCKING UNITS AND FOR AN OPERABLE AND CODE COMPLIANT INSTALLATION.
 - THE FOLLOWING GROUPS OF UNITS SHALL BE WIRED AND INTERLOCKED TO SHUT DOWN TOGETHER UPON DETECTION OF SMOKE BY ANY ONE OF THE UNITS IN EACH GROUP:
 - RTU1, RTU2, RTU3, DOAS1, DOAS2
- PROVIDE NEW PLEATED TYPE THROWAWAY FILTERS WITH A MERV RATING OF 8 (30% EFFICIENCY) OR BETTER. COORDINATE SIZE AND QUANTITIES WITH UNITS PURCHASED. PROVIDE LIST A OF FILTER SIZE(S) FOR EACH PIECE OF EQUIPMENT FOR THE OWNER'S QUICK REFERENCE.
- EXPOSED SUPPLY AND RETURN DUCTWORK INSTALLED IN DINING/BAR AREA OF FACILITY SHALL NOT BE INSULATED. M.C. TO COORDINATE ANY DUCTWORK PAINTING WITH THE ARCHITECT.

LEGEND

- LOW VELOCITY DUCTWORK
- LOW VELOCITY DUCTWORK WITH 1" THICK ACOUSTICAL LINER
- SUPPLY AIR DUCTWORK
- RETURN AIR DUCTWORK
- EXHAUST AIR DUCTWORK
- OUTSIDE AIR DUCTWORK
- SUPPLY AIR DEVICE WITH FLEXIBLE DUCT CONNECTION
- RETURN AIR DEVICE
- EXHAUST AIR DEVICE
- SMOKE DETECTOR; REFER TO GENERAL NOTE
- ACCESS DOOR (AD) OR PANEL (AP)
- MANUAL BALANCE DAMPER WITH LOCKING QUADRANT
- DOUBLE WALL TURNING VANES
- RADIUS ELBOW
- RECTANGULAR TO ROUND TRANSITION
- SUPPLY AIRFLOW SYMBOL
- RETURN/EXHAUST AIRFLOW SYMBOL
- PROGRAMMABLE THERMOSTAT

ABBREVIATIONS (NOT ALL MAY APPLY)

- A AMP
- ACH AIR CHANGES PER HOUR
- AD ACCESS DOOR
- ADA AMERICAN DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AFUE ANNUAL FUEL UTILIZATION EFFICIENCY
- AP ACCESS PANEL
- ARI AIR CONDITIONING AND REFRIGERATION INSTITUTE
- ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS, INC.
- BTUH BRITISH THERMAL UNIT PER HOUR
- CFH CUBIC FOOT PER HOUR
- CFM CUBIC FEET PER MINUTE
- CIP CAST IN PLACE
- CLG CEILING
- DB DRY BULB
- DDC DIRECT DIGITAL CONTROL SYSTEM
- DIA, Ø DIAMETER
- E.C. ELECTRICAL CONTRACTOR
- E, EXIST. EXISTING
- E.S.P. EXTERNAL STATIC PRESSURE
- EER ENERGY EFFICIENCY RATIO
- EMS ENERGY MANAGEMENT SYSTEM
- FLA FULL LOAD AMPS
- FOI FLAT ON TOP
- FOB FLAT ON BOTTOM
- G.C. GENERAL CONTRACTOR
- G GAS (NATURAL) PIPING
- GFI GROUND FAULT INTERRUPTER
- HP HORSEPOWER
- HVAC HEATING, VENTILATING AND AIR CONDITIONING
- ILV INTEGRATED PART-LOAD VALUES
- KEC KITCHEN EQUIPMENT CONTRACTOR
- KVA KILO VOLT-AMP
- LP LIQUID PROPANE GAS PIPING
- M.C. MECHANICAL CONTRACTOR
- MCA MINIMUM CIRCUIT AMPS
- MERV MINIMUM EFFICIENCY REPORTING VALUE
- MH MOUNTING HEIGHT
- MOPC MAXIMUM OVERCURRENT PROTECTION
- MOUNTED MOUNTED
- NEC NATIONAL ELECTRIC CODE
- O.C. ON CENTER
- OBC OHIO BUILDING CODE
- OMC OHIO MECHANICAL CODE
- P.C. PLUMBING CONTRACTOR
- PVC POLYVINYL CHLORIDE PLASTIC
- RH RELATIVE HUMIDITY
- RLA RATED LOAD AMPS
- RPM REVOLUTIONS PER MINUTE
- S.P. STATIC PRESSURE
- SCH SCHEDULE
- SEER SEASONAL ENERGY EFFICIENCY RATING
- SF SQUARE FEET
- SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
- STC SOUND TRANSMISSION RATING
- TYP TYPICAL
- UL UNDERWRITER'S LABORATORY
- UNO UNLESS NOTED OTHERWISE
- VTR VENT THRU ROOF
- W WAITS
- W.G. WATER GAUGE
- WB WET BULB
- WP WEATHER PROOF

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DIV. 23 - MECHANICAL SPECIFICATIONS

23 0500 - COMMON WORK RESULTS FOR HVAC

- A. CUTTING OF EXISTING OR NEW CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, TO INSTALL SYSTEMS SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- B. OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE O&M INFORMATION FOR EACH PIECE OF EQUIPMENT INCLUDING: MANUFACTURER'S INFORMATION; NAME, ADDRESS AND TELEPHONE NUMBER OF INSTALLER OR SUPPLIER; MAINTENANCE PROCEDURES; COPIES OF MAINTENANCE SERVICE AGREEMENTS, WARRANTIES AND BONDS.
- C. MANUFACTURER'S STANDARD WARRANTIES SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE A WARRANTY FOR HIS WORK FOR A MINIMUM OF 1 YEAR AFTER DATE OF COMPLETION.
- D. ALL EQUIPMENT AND MATERIALS SHALL BE DELIVERED, STORED AND HANDLED WITH CARE. ANY DAMAGE RESULTING FROM IMPROPER STORAGE OR HANDLING OF EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.

23 0593 - TESTING, ADJUSTING, AND BALANCING

- A. ASHRAE 62.1-2010: VENTILATION SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH ASHRAE STANDARD 111, SMACNA'S "HVAC SYSTEMS--TESTING, ADJUSTING AND BALANCING", ABC OR NEBB STANDARDS AT LEAST TO THE EXTENT NECESSARY TO VERIFY CONFORMANCE WITH THE TOTAL OUTDOOR AIR FLOW AND SPACE SUPPLY AIR FLOW REQUIREMENTS OF THIS STANDARD.
- B. ALL SUPPLY, RETURN, OUTDOOR AND EXHAUST-AIR QUANTITIES SHALL BE WITHIN PLUS OR MINUS 10% OF THE CM INDICATED IN THE CONSTRUCTION DOCUMENTS. MARK EQUIPMENT AND BALANCING DEVICE SETTINGS TO SHOW FINAL SETTINGS.

23 0700 - HVAC INSULATION

- A. DUCTWORK INSULATION: INSULATION AND INSTALLATION SHALL COMPLY WITH OMC 604.
- B. INSULATION SHALL BE MINERAL-FIBER WITH ALL-PURPOSE FACTORY-APPLIED FSK JACKET WHICH MEETS OR EXCEEDS THE 25/50 FLAME SPREAD/SMOKE DEVELOPED RATINGS.
- C. THICKNESS: CONCEALED SUPPLY AND RETURN AIR DUCTS TO BE 2" MINIMUM BELOW ROOF DECK.
- D. MINIMUM DUCT INSULATION R-VALUE SHALL BE PER TABLE 6.8.2B "MINIMUM DUCT INSULATION R-VALUE, COMBINED HEATING AND COOLING SUPPLY DUCTS AND RETURN DUCTS," REFER TO CLIMATE ZONE 5 IN ASHRAE 90.1-2007 FOR R-VALUES.
- E. EXPOSED DUCTWORK INSTALLED IN OCCUPIED AREAS SHALL NOT BE INSULATED.

23 1123 - NATURAL GAS PIPING

- A. ABOVE GRADE GAS PIPING SHALL BE ASTM A 53/A 53M, TYPE E OR S SCHEDULE 40 BLACK STEEL WITH CLASS 150 MALLEABLE OR CAST IRON FITTINGS.
- B. OPERATING PRESSURE NOT TO EXCEED 0.5 PSIG, UNLESS OTHERWISE INDICATED.
- C. SHUT-OFF VALVES SHALL BE A.G.A. APPROVED.
- D. NO SHUT-OFF VALVE SHALL BE INSTALLED ABOVE CEILING IF SPACE IS BEING USED AS A RETURN AIR PLENUM.
- E. HANGER SPACING AND ROD SIZING SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE.
- F. PIPING INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL FUEL GAS CODE.

23 3113 - METAL DUCTS

- A. DUCTWORK SYSTEMS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE" AND OMC 603 FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS.
- B. MATERIAL: GALVANIZED SHEET STEEL; LOCK-FORMING QUALITY; COMPLYING WITH ASTM A 653/A 653M AND HAVING G60 COATING DESIGNATION; DUCTS SHALL HAVE MILL-PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.
- C. DUCT LINER: FIBROUS-GLASS, 1" THICK WITH THERMAL CONDUCTIVITY OF 0.26 AT 75 DEG F MEAN TEMPERATURE; COMPLY WITH NFPA 90A OR NFPA 90B AND NAIMA AH124. SURFACES EXPOSED TO AIRSTREAM SHALL BE COATED TO PREVENT EROSION OF GLASS FIBERS. MAXIMUM 25/50 FLAME-SPREAD/SMOKE-DEVELOPED INDEX PER ASTM E 84.
- D. HANGER AND SUPPORTS: GALVANIZED SHEET STEEL OR THREADED STEEL ROD; SIZE AND INSTALLED PER SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE" AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- E. RECTANGULAR DUCT: FABRICATE DUCTS, ELBOWS, TRANSITIONS, ETC. IN ACCORDANCE WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE."
- F. ROUND DUCT: LONGITUDINAL- AND SPIRAL LOCK-SEAM DUCTS SHALL BE FABRICATED OF GALVANIZED STEEL ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE;" OR DOUBLE-WALL (INSULATED) DUCTS WITH AN OUTER SHELL AND AN INNER DUCT.
- G. DIMENSIONS INDICATED ON THE DRAWINGS ARE FOR INSIDE FREE AREA OF NEW DUCTWORK.

23 3300 - DUCT ACCESSORIES

- A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS.
- B. FLEXIBLE DUCTS: INSULATED CONNECTORS SHALL COMPLY WITH UL 181, CLASS 1, BLACK POLYMER FILM SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE, FIBROUS-GLASS INSULATION; POLYETHYLENE VAPOR BARRIER FILM. CONNECT TO DUCT WITH NYLON STRAPS.
- C. MANUAL BALANCING DAMPERS: SINGLE-BLADE, OPPOSED-BLADE DESIGN, STANDARD LEAKAGE RATING WITH LINKAGE OUTSIDE OF AIRSTREAM, AND SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATIONS. INCLUDE LOCKING DEVICE TO HOLD SINGLE-BLADE DAMPERS IN A FIXED POSITION WITHOUT VIBRATION. COORDINATE WITH AIR BALANCE CONTRACTOR AND PROVIDE ANY ADDITIONAL DAMPERS AS RECOMMENDED.
- D. TURNING VANES: FABRICATE 1-1/2" WIDE DOUBLE-WALL VANE, CURVED BLADES OF GALVANIZED SHEET STEEL SET 3/4" O.C.; SUPPORT WITH BARS PERPENDICULAR TO BLADES SET 2" O.C.; AND SET INTO VANE RUNNERS SUITABLE FOR DUCT MOUNTING.
- E. 4" FLEXIBLE CANVAS CONNECTOR: FLAME-RETARDANT OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS 1. GLASS FABRIC DOUBLE COATED WITH NEOPRENE; 26 OZ./SQ. YD. MINIMUM WEIGHT; SERVICE TEMP -40 TO +200 DEG F.
- F. MANUFACTURERS: DURO DYNE CORP., GREENHECK, MCGILL AIRFLOW CORP., NAILOR INDUSTRIES INC., RUSKIN COMPANY, WARD INDUSTRIES INC., DUCTMATE INDUSTRIES.

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23 3423 - POWER VENTILATORS

- A. POWER VENTILATORS SHALL BE OF SIZE, CAPACITY, AND ELECTRICAL REQUIREMENTS AS INDICATED ON THE DRAWING FAN SCHEDULE AND AS SPECIFIED HEREIN.
- B. VENTILATORS SHALL BE LISTED, LABELED AND COMPLY WITH NFPA 70, AMCA AND UL 705.
- C. VENTILATORS SHALL INCLUDE: INTEGRAL DISCONNECT SWITCH; GRAVITY OR 24VAC MOTORIZED BACKDRAFT DAMPER; GALVANIZED BIRD SCREEN; VIBRATION ISOLATION; INSULATED CABINET; SQUARE DUCT CONNECTION, MANUFACTURER'S STANDARD ROOF JACK, CURB, ROOF CAP AND TRANSITION FITTINGS AS INDICATED ON THE DRAWING FAN SCHEDULE.
- D. MANUFACTURERS: GREENHECK, BROAN, OR COOK.
- E. CENTRIFUGAL ROOF VENTILATORS FOR VENDOR EXHAUST KITCHEN HOODS.
- F. PROVIDE CENTRIFUGAL ROOF TYPE, CURB MOUNTED, POWER VENTILATORS OF TYPE, SIZE, AND CAPACITY AS SCHEDULED, AND AS SPECIFIED HEREIN.
- G. TYPE: CENTRIFUGAL FAN, DIRECT OR BELT DRIVEN AS SCHEDULED. PROVIDE ALUMINUM, GALVANIZED STEEL, OR FIBERGLASS WEATHERPROOF HOUSINGS AS SCHEDULED. PROVIDE SQUARE BASE TO SUIT ROOF CURB. PROVIDE PERMANENT SPLIT-CAPACITOR TYPE MOTOR FOR DIRECT DRIVEN FANS; CAPACITOR-START, INDUCTION-RUN TYPE MOTOR FOR BELT DRIVEN FANS.
- H. PROVIDE THE FOLLOWING TYPES OF HOUSING DESIGN: KITCHEN HOODS: UPBLAST TYPE.
- I. ELECTRICAL: PROVIDE FACTORY-WIRED NON-FUSIBLE TYPE DISCONNECT SWITCH AT MOTOR IN FAN HOUSING. PROVIDE THERMAL OVERLOAD PROTECTION IN FAN MOTOR. PROVIDE CONDUIT CHASE WITHIN BLOWER FOR ELECTRICAL CONNECTION.
- J. PROVIDE NEMA 1 DISCONNECT FACTORY MOUNTED, FOR SINGLE PHASE FRACTIONAL HP FANS USE A TOGGLE--TYPE DISCONNECT SWITCH. ON THREE PHASE INTEGRAL HP FANS USE A NEMA 1 SAFETY SWITCH.
- K. BIRD SCREENS: PROVIDE REMOVABLE BIRD SCREENS, 1/2" MESH, 16-GA ALUMINUM OR BRASS WIRE.
- L. KITCHEN HOOD EXHAUST: PROVIDE UL LISTED FAN WITH GREASE CUP AND DRAIN AND EXTENDED ROOF CURB FOR FAN OUTLET AT 40" ABOVE ROOF.
- M. ROOF CURB: PROVIDE FACTORY FABRICATED ROOF CURB BY THE SAME MANUFACTURER AS THE EQUIPMENT. ROOF CURB TO BE INSULATED.
- N. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE CENTRIFUGAL ROOF VENTILATORS FROM ONE OF THE FOLLOWING MANUFACTURERS:
CAPTIVEAIRE
ENGINEER APPROVED EQUAL

23 3533 - KITCHEN VENTILATION EXHAUST DUCTS

- A. DESCRIPTION: FACTORY-FABRICATED, LISTED AND LABELED DOUBLE WALL DUCTS TESTED ACCORDING TO UL 1978 AND RATED FOR 500 DEG. F CONTINUOUSLY, OR 2000 DEG. F FOR 30 MINUTES, WITH POSITIVE OR NEGATIVE DUCT PRESSURE COMPLYING WITH NFPA 211
- B. CONSTRUCTION: INNER SHELL AND OUTER JACKET SEPARATED BY AT LEAST 2-INCH ANNULAR SPACE FILLED WITH HIGH-TEMPERATURE, CERAMIC-FIBER INSULATION.
1. INNER SHELL: ASTM A666 TYPE 304 STAINLESS STEEL
2. OUTER JACKET: STAINLESS STEEL WHERE CONCEALED OR EXPOSED.
- C. GASKETS AND FLANGES: ENSURE THAT GASKETS AND SEALING MATERIALS ARE RATED AT 1500 DEG. F MINIMUM.
- D. HOOD CONNECTORS: CONSTRUCTED FROM SAME MATERIAL AS GREASE DUCT WITH INTERNAL OR EXTERNAL CONTINUOUSLY WELDED OR BRAZED JOINTS.
- E. ACCESSORIES: TEES, ELBOWS, INCREASERS, TERMINATIONS, ADJUSTABLE ROOF FLASHINGS, STORM COLLARS, SUPPORT ASSEMBLIES, THIMBLES, FIRESTOP SPACERS, AND FASTENERS; FABRICATED FROM SIMILAR MATERIALS AND DESIGNS AS VENT-PIPE STRAIGHT SECTIONS; ALL LISTED FOR SAME ASSEMBLY. INCLUDE UNIQUE COMPONENTS REQUIRED TO COMPLY WITH NFPA 96 INCLUDING CLEANOUTS, TRANSITIONS, ADAPTERS, AND DRAIN FITTINGS.
- F. GREASE DUCT SUPPORTS: CONSTRUCT DUCT BRACING AND SUPPORTS FROM NON-COMBUSTIBLE MATERIAL. DESIGN BRACING AND SUPPORTS TO CARRY STATIC AND SEISMIC LOADS WITHIN STRESS LIMITATIONS OF THE I.M.C. ENSURE THAT BOLTS, SCREWS, RIVETS, AND OTHER MECHANICAL FASTENERS DO NOT PENETRATE DUCT WALLS.
- G. COMPLY WITH ASTM E2336.
- H. ACCESS DOORS: FACTORY-FABRICATED, LISTED AND LABELED DOUBLE WALL MAINTENANCE DOORS TESTED ACCORDING TO UL 1978 AND RATED FOR 500 DEG. F CONTINUOUSLY, OR 2000 DEG. F FOR 30 MINUTES, WITH POSITIVE OR NEGATIVE DUCT PRESSURE COMPLYING WITH NFPA 211
- I. CONSTRUCTION: 0.0625 ASTM A666, STAINLESS STEEL INNER SHELL AND STAINLESS STEEL OUTER COVER WITH TWO HANDLES. FASTENERS SHALL BE STAINLESS STEEL BOLTS AND WING NUTS.
1. MAINTENANCE DOOR DIMENSIONS: 7 x 7 INCHES.
2. DOOR LABEL: MARK DOOR WITH UPPERCASE LETTERING AS FOLLOWS:
"ACCESS PANEL - DO NOT OBSTRUCT"
- J. COMPLY WITH MINIMUM CLEARANCES FROM COMBUSTIBLES AND MINIMUM TERMINATION HEIGHTS ACCORDING TO PRODUCT LISTING OR NFPA 211 AND UL 2221, WHICHEVER IS MOST STRINGENT.
- K. INSTALL AIRTIGHT MAINTENANCE ACCESS DOORS WHERE INDICATED.
- L. SEAL BETWEEN SECTIONS OF GREASE EXHAUST DUCTS ACCORDING TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, USING SEALANTS RECOMMENDED BY MANUFACTURER.
- M. CONNECTIONS: MAKE GREASE DUCT CONNECTIONS ACCORDING TO THE INTERNATIONAL MECHANICAL CODE.
1. GREASE DUCT TO EXHAUST FAN CONNECTIONS: CONNECT GREASE DUCTS TO INLET SIDE OF FAN USING FLANGES, GASKETS, AND BOLTS.
2. GREASE DUCT TO HOOD CONNECTIONS:
A. MAKE GREASE DUCT TO HOOD JOINTS CONNECTIONS USING INTERNAL OR EXTERNAL CONTINUOUSLY WELDED OR BRAZED JOINTS.
B. MAKE WATERTIGHT GREASE DUCT TO HOOD JOINTS CONNECTIONS USING FLANGES, GASKETS, AND BOLTS.
- N. SUPPORT DUCTS AT INTERVALS RECOMMENDED BY MANUFACTURER TO SUPPORT WEIGHT OF DUCTS AND ACCESSORIES, WITHOUT APPLYING LOADING ON KITCHEN HOODS.
1. SECURELY ATTACH SUPPORTS AND BRACING TO STRUCTURE.
- O. GREASE DUCT ENCLOSURES SHALL COMPLY WITH REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND ASTM E2336.
- P. REPAIR DAMAGE TO ADJACENT MATERIALS CAUSED BY KITCHEN VENTILATION SYSTEM EXHAUST DUCT INSTALLATION.
- Q. MANUFACTURERS: METAL-FAB, SEL-KIRK, OR ENGINEER APPROVED EQUAL.

23 3713 - DIFFUSERS, REGISTERS, AND GRILLES

- A. AIR DEVICES SHALL BE AS INDICATED ON THE DRAWING SCHEDULES AND AS SPECIFIED HEREIN.
 - B. DEVICES SHALL HAVE A WHITE ENAMEL BAKED FINISH UNLESS NOTED OTHERWISE.
 - C. VERIFY MOUNTING REQUIREMENTS WITH ARCHITECTURAL REFLECTED CEILING PLANS BEFORE ORDERING AIR DEVICES TO ENSURE FRAME/MOUNTING COMPATIBILITY.
 - D. MANUFACTURERS: PRICE OR EQUAL.
- 23 7433 - PACKAGED ROOFTOP UNITS**
- A. ROOFTOP UNITS SHALL BE OF SIZE, TYPE AND CAPACITY AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
 - B. UNITS SHALL BE FACTORY ASSEMBLED AND TESTED; DESIGNED FOR EXTERIOR INSTALLATION, CONSISTING OF COMPRESSOR, INDOOR AND OUTSIDE REFRIGERANT COILS, INDOOR FAN AND OUTSIDE COIL FAN, REFRIGERATION AND TEMPERATURE CONTROLS, FILTERS, AND DAMPERS.
 - C. CASING: GALVANIZED STEEL CONSTRUCTION WITH ENAMEL PAINT FINISH, REMOVABLE PANELS OR ACCESS DOORS WITH NEOPRENE GASKETS, MINIMUM 1/2-INCH-THICK THERMAL INSULATION, KNOCKOUTS FOR ELECTRICAL AND PIPING CONNECTIONS, EXTERIOR CONDENSATE DRAIN CONNECTION AND LIFTING LUGS.
 - D. REFRIGERANT COILS: ALUMINUM-PLATE FIN AND SEAMLESS COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR.
 - E. COMPRESSORS: HERMETIC SCROLL COMPRESSOR WITH INTEGRAL VIBRATION ISOLATORS, INTERNAL OVERCURRENT AND OVERTEMPERATURE PROTECTION.
 - F. REFRIGERANT SYSTEM: COMPRESSORS; OUTSIDE COIL AND FAN; INDOOR COIL AND FAN; HIGH- AND LOW-PRESSURE SWITCHES; SUCTION LINE ACCUMULATOR; CHECK VALVES; REFRIGERANT DRYER, THERMOSTATS FOR COIL FREEZE-UP PROTECTION; INDEPENDENT REFRIGERANT CIRCUITS; BRASS SERVICE VALVES INSTALLED ON DISCHARGE AND LIQUID LINES; FULLY CHARGED WITH R-410A (PURON) REFRIGERANT; COMPRESSOR AUTOMATIC-RESET CONTROL.
 - G. HEAT EXCHANGER: ALUMINIZED-STEEL CONSTRUCTION FOR NATURAL GAS-FIRED BURNERS WITH REDUNDANT DUAL GAS VALVE W/ MANUAL SHUTOFF; DIRECT-SPARK PILOT IGNITION; ELECTRONIC FLAME SENSOR; INDUCED-DRAFT BLOWER; FLAME ROLLOUT SWITCH.
 - H. POWER CONNECTION: PROVIDE FOR A SINGLE CONNECTION OF POWER TO UNIT WITH CONTROL CIRCUIT TRANSFORMER.
 - I. MANUFACTURERS: CARRIER, AON, TRANE, OR DAIKIN.

23 7433 - DEDICATED OUTDOOR AIR SYSTEMS: 100% MAKEUP AIR UNITS

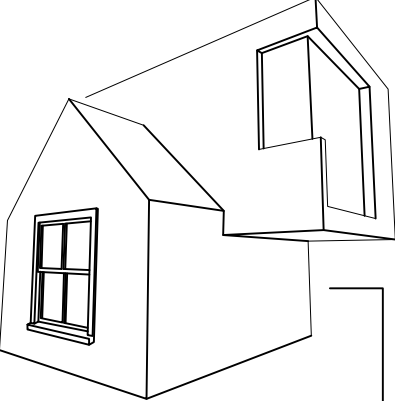
- A. D.O.A.S--MAKEUP AIR UNITS SHALL BE OF SIZE, TYPE AND CAPACITY AS SHOWN ON THE DRAWING SCHEDULES, DRAWING NOTES, AND AS SPECIFIED HEREIN. THE ENTIRE UNIT SHALL BE ETL CERTIFIED PER UL 1995.
- B. UNITS SHALL BE FACTORY ASSEMBLED AND TESTED; DESIGNED FOR EXTERIOR INSTALLATION, SHALL CONSIST OF AN INSULATED METAL CABINET, EVAPORATOR COIL, INDIRECT GAS-FIRED FURNACE, PACKAGED DX SYSTEM, PHASE AND BROWNOUT PROTECTION, MOTORIZED DAMPERS, CURB ASSEMBLY, INTAKE AIR FILTER ASSEMBLY, SUPPLY AIR BLOWER, AND CONTROL CENTER. ALL COMPONENTS AND INTERNAL ACCESSORIES FACTORY INSTALLED SHALL BE TESTED AND PREPARED FOR SINGLE-POINT POWER CONNECTION.
- C. UNIT CABINET SHALL BE DOUBLE WALL INSULATED GALVANIZED STEEL PANELS; ASTM A653. CABINET INSULATION SHALL BE NFPA 90A, NFPA 90B, AND UL 181 COMPLIANT WITH MAXIMUM FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 (WHEN TESTED PER ASTM C411). UNIT ACCESS PANELS OR DOORS ARE REQUIRED FOR ACCESS TO ALL MAJOR COMPONENTS. UNIT SHALL BE PROVIDED WITH HORIZONTAL SUPPLY AIR DISCHARGE.
- D. SUPPLY AIR BLOWER: DIRECT-DRIVE FAN; MOUNTED ON VIBRATION ISOLATORS; CONTINUOUS SPEED MODULATION; CONTROLLED BY FACTORY MOUNTED VFD.
- E. EVAPORATOR COIL: AHRI CERTIFIED; COPPER TUBING PERMANENTLY BONDED TO ALUMINUM FINS ENCLOSED IN GALVANIZED STEEL FRAME. TWO COMPRESSOR UNITS SHALL HAVE EVAP COIL WITH A CONFIGURATION THAT PERMITS INDEPENDENT OPERATION OF EITHER COMPRESSOR WITHOUT CONFLICT WITH THE OTHER COMPRESSOR.
- F. THE INDIRECT GAS-FIRED FURNACE SHALL BE ETL CERTIFIED, HAVE AN INTEGRAL COMBUSTION GAS BLOWER, STAINLESS STEEL HEAT EXCHANGERS, MODULATING CONTROL, DIRECT SPARK IGNITION, POWER VENTING, GAS CONNECTION AND EASY ACCESS TO BURNER CONTROLS.
- G. PACKAGED DX COOLING: SCROLL COMPRESSORS; INSTALLED ON VIBRATION ISOLATORS; HOT GAS BYPASS; CRANKCASE HEATER ON COMPRESSOR; THERMAL EXPANSION VALVE; CONDENSER FANS; LIQUID LINE FILTER DRIER; HIGH- AND LOW-PRESSURE OUTDRAWS AND APPURTENANT SENSORS; FREEZE PROTECTION; SERVICE/CHARGING VALVES; MOISTURE-INDICATING SIGHT GLASS.
- H. CONDENSER FANS: DIRECT DRIVE; STATICALLY AND DYNAMICALLY BALANCED; AMCA LICENSED/ CERTIFIED; THERMAL OVERLOAD PROTECTION.
- I. DX CONTROL AND DIAGNOSTICS: SYSTEM SHALL BE CONTROLLED BY AN ONBOARD DIGITAL CONTROLLER (DDC) THAT INDICATES BOTH OWNER-SUPPLIED SETTINGS AND FAULT CONDITIONS THAT MAY OCCUR. IT SHALL INDICATE THE FOLLOWING FAULTS: GLOBAL ALARM, SUPPLY AIR PROVING, DIRTY FILTER, COMPRESSOR TRIP AND LOCKED OUT ALARMS, SUPPLY AIR TEMP LOW LIMIT ALARMS (OUTSIDE AIR TEMP, SUPPLY AIR TEMP, COLD COIL LAT).
- J. OUTDOOR AIR DAMPERS: FACTORY INSTALLED, MOTORIZED LOW LEAKAGE TYPE. UNIT PROVIDED WITH DOWN-TURNED, OUTDOOR AIR INTAKE HOOD.
- K. POWER CONNECTION: PROVIDE FOR A SINGLE CONNECTION OF POWER TO UNIT WITH CONTROL CIRCUIT TRANSFORMER; FACTORY-INSTALLED AND POWERED DISCONNECT AND GFCI OUTLET. PHASE AND BROWNOUT PROTECTION: FACTORY-INSTALLED PHASE MONITOR TO DETECT ELECTRIC SUPPLY PHASE LOSS AND VOLTAGE BROWN-OUT CONDITIONS. UPON DETECTION OF A FAULT, THE MONITOR SHALL DISCONNECT SUPPLY VOLTAGE TO ALL MOTORS.
- L. MANUFACTURERS: CAPTIVEAIRE, OR ENGINEER APPROVED EQUAL.

23 3813 - COMMERCIAL KITCHEN HOODS - TYPE I

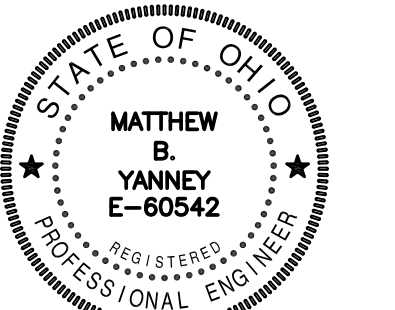
- A. KITCHEN VENTILATION HOODS SHALL BE OF THE TYPE I, EXHAUST ONLY WALL CANOPY, AND SUITABLE FOR ALL TYPES OF COOKING APPLICATIONS. THE HOOD TO BE FACTORY FABRICATED AND TESTED FOR COMPLIANCE WITH UL 710 FOR 400F, 600F OR 700F COOKING APPLIANCES. HOODS SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH NFPA 96.
- B. HIGH EFFICIENCY FILTER EXHAUST HOOD SHALL BE PRE-PIPED WITH ANSUL SYSTEM, UL LISTED WITHOUT FIRE DAMPER AND HAVE A ZERO CLEARANCE TO COMBUSTIBLE RATING. A 3-INCH DUCT COLLAR SHALL BE CONTINUOUSLY WELDED TO TOP OF HOOD AND AT CORNERS.
- C. HOOD MATERIALS: EXTERIOR SHALL BE CONSTRUCTED OF 18 GA. MINIMUM TYPE 304 STAINLESS STEEL, CONSTRUCTED USING THE STANDING SEAM METHOD. FRONT PANELS SHALL BE SINGLE WALL CONSTRUCTION. AN INTEGRAL 3-INCH AIR SPACE TO BE PROVIDED THAT MEETS NFPA 96 CLEARANCE REQUIREMENTS AGAINST LIMITED COMBUSTIBLE WALLS. ALL SEAMS, JOINTS AND PENETRATIONS OF THE HOOD ENCLOSURE SHALL BE WELDED AND/OR LIQUID TIGHT. LIGHTER MATERIAL GAUGES, ALTERNATE MATERIAL TYPES AND FINISHES ARE NOT ACCEPTABLE. ALL UNEXPOSED INTERIOR SURFACES SHALL BE CONSTRUCTED OF 18 GA. CORROSION RESISTANT STEEL INCLUDING, BUT NOT LIMITED TO DUCTS, PLENUM AND BRACKETS.
- D. THE FILTER HOUSING SHALL BE CONSTRUCTED OF SAME MATERIAL AS THE HOOD, PROVIDE HIGH EFFICIENCY ALUMINUM FILTERS IN SUFFICIENT NUMBER AND SIZES. FILTER HOUSING SHALL TERMINATE IN A FITTED, FULL LENGTH GREASE TROUGH WHICH SHALL DRAIN INTO A REMOVABLE GREASE CONTAINER. PROVIDE FILTER REMOVAL TOOL.
- E. VAPORPROOF, UL LISTED INCANDESCENT LIGHT FIXTURES SHALL BE PREWIRED TO A JUNCTION BOX LOCATED AT THE TOP OF THE HOOD WITH STAINLESS STEEL COVERPLATE FOR FIELD CONNECTION. A TOGGLE SWITCH FOR THE EXHAUST FAN SHALL ALSO BE INCLUDED. WIRING SHALL CONFORM TO NEC AND NFPA 70.
- F. AN ANSUL R102 WET CHEMICAL FIRE SUPPRESSION SYSTEM SHALL BE PREPARED IN THE HOOD. THIS TO INCLUDE SCH 40 BLACK IRON PIPING, CHROME APPLIANCE DROPS, DETECTORS, AND NOZZLES. FINAL CONNECTIONS, SYSTEM ACTIVATION AND CERTIFICATION TO BE COMPLETED BY A CERTIFIED ANSUL TECHNICIAN.
- G. MAKEUP AIR SHALL BE INDEPENDENTLY PROVIDED.
- H. PROVIDE ENCLOSURE/FILLER PANELS AND TRIM TO ENCLOSE SPACE BETWEEN TOP OF HOOD AND CEILING.
- I. MANUFACTURERS: CAPTIVEAIRE, OR ENGINEER APPROVED EQUAL.

23 8239 - UNIT HEATERS

- A. WALL HEATERS:
1. FAN-FORCED WALL HEATERS SHALL HAVE STEEL HOUSING FINISHED WITH BLACK, EPOXY PAINT SUITABLE FOR A SURFACE INSTALLATION AND SHALL BE UL LISTED AND LABELED.
2. UNIT SHALL BE WATTAGE-CONVERTIBLE OR VOLTAGE-SELECTABLE. HEATER SHALL INCLUDE A THERMAL OVERLOAD PROTECTOR WITH MANUAL RESET.
3. HEATER ASSEMBLY: NICKEL--CHROME RESISTANCE ALLOY HEATING ELEMENT; PERMANENTLY LUBRICATED MOTOR; HIGH-EFFICIENCY BLOWER WHEEL; REMOVABLE HOUSING FOR CLEANING AND SERVICING.
4. GRILLE WILL BE STATURY BRONZE IN COLOR AND BE OF 20-GAUGE, ONE-PIECE CONSTRUCTION WITH NO SHARP EDGES AND DOWNFLOW LIDERS.
5. PROVIDE EQUIPMENT WITH INTEGRAL THERMOSTAT AND DISCONNECT SWITCH CONCEALED BEHIND FRONT GRILLE PANEL.
6. MANUFACTURERS: OMARK, MARLEY, OR BROAN



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Matthew B. Yanny

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REVISION	DATE
PERMIT	08/21/2020
REVISION	10/13/2020
REVISION	06/22/2021
REVISION	09/14/2021

PROJECT No.: 2020-09

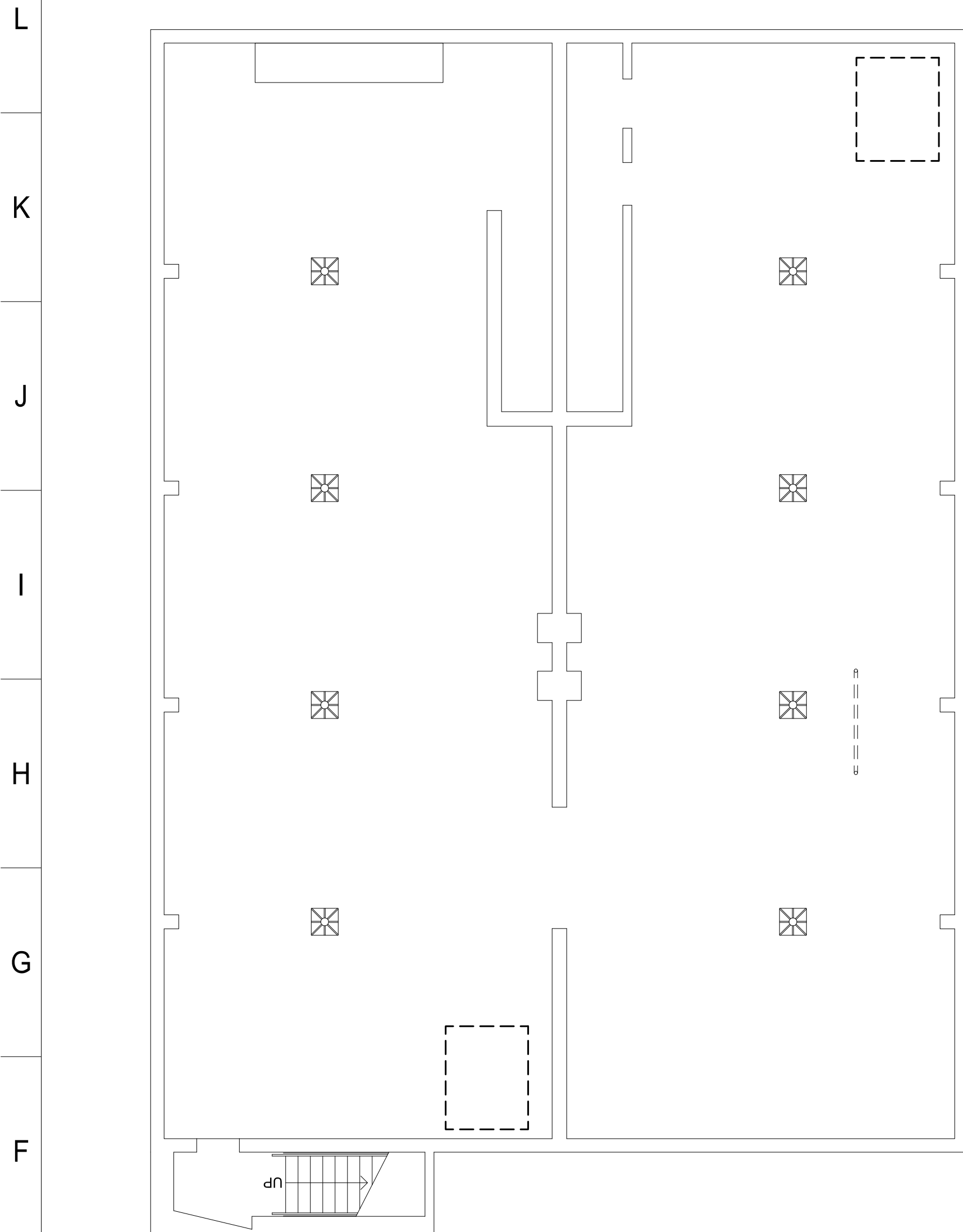
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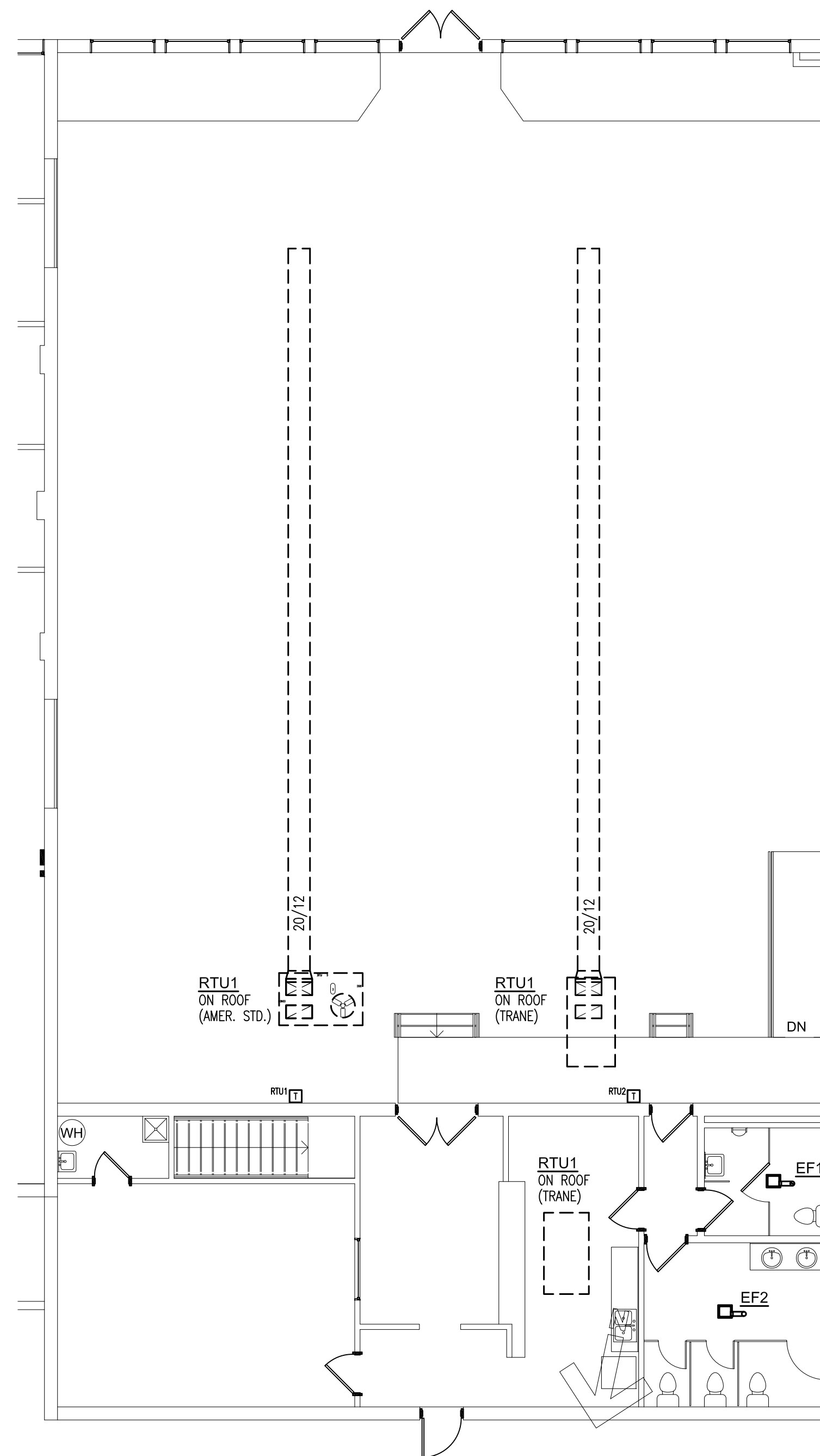
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1 BASEMENT
Scale: 1/8" = 1'-0"
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2 FIRST FLOOR
Scale: 1/8" = 1'-0"
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DEMOLITION GENERAL NOTES

- A. THE DEMOLITION GENERAL NOTES SHALL BE THE GUIDE TO THE MECHANICAL CONTRACTOR AND OTHER TRADES FOR DESCRIPTIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., TO BE REMOVED. ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER AND WORK OF OTHER TRADES. ALL DEMOLITION WORK SHALL BE COMPLETE BEFORE NEW WORK INSTALLATION SHALL BEGIN.
- B. ALL REMOVED MECHANICAL EQUIPMENT SHALL BE REMOVED OFF-SITE AT TIME OF DEMOLITION, AND LEGALLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- C. MECHANICAL EQUIPMENT DEMOLITION AND REMOVAL SHALL BE UNDER THE DIRECT SUPERVISION OF THE MECHANICAL CONTRACTOR, OR HIS DESIGNATED REPRESENTATIVE.
- D. DEMOLITION WORK BY THIS CONTRACTOR SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
 - EXISTING GAS FIRED UNIT ROOFTOP UNITS, AND EXISTING ROOF CURBS AND ADAPTERS.
 - REMOVAL OF EXISTING SUPPLY DUCT MAIN SERVING MAIN HALL FROM RTU1 & RTU2 HANGERS, SUPPORTS, AIR DEVICES.
 - REMOVAL OF SUPPLY/RETURN DUCT SERVING RTU3 (EXISTING STORAGE/RESTROOM AREA) ALL HANGERS, SUPPORTS, AND ALL FLEX DUCT TO AIR DEVICES. (DUCTWORK NOT SHOWN)
 - REMOVAL OF RESTROOM EXHAUST FANS, CONTROLS, AND DISCHARGE DUCTWORK.(EF1/EF2)
 - REMOVAL OF EXISTING THERMOSTATS AND CONTROL WIRING. REFER TO NEW WORK PLAN FOR NEW THERMOSTAT LOCATIONS. COORDINATE ELECTRICAL POWER WIRING REMOVAL WITH THE ELECTRICAL CONTRACTOR. REFER TO NEW WORK ELECTRICAL POWER PLAN AND MECHANICAL SCHEDULES FOR POWER REQUIREMENTS OF NEW EQUIPMENT.
 - REMOVAL OF ABANDONED-IN-PLACE UNITS, DUCTWORK, HANGERS, AND SUPPORTS LOCATED IN BASEMENT (APPROX. LOCATIONS SHOWN ON BASEMENT PLAN.)
 - ANY OTHER MECHANICAL EQUIPMENT NOT SHOWN OR LISTED THAT IS NOT INDICATED ON THE NEW WORK PLAN TO BE REUSED OR RELOCATED.
- F. ROOFTOP UNIT PENETRATIONS SHALL BE CAPPED AND SEALED WEATHERTIGHT UNTIL SUCH TIME THAT NEW ROOFTOP EQUIPMENT AND CURBS ARE INSTALLED. COORDINATE WORK WITH BUILDING DEVELOPER'S PREFERRED ROOFING CONTRACTOR.

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REVISION	DATE
PERMIT	08/21/2020
REVISION /A/	10/13/2020
REVISION /B/	06/22/2021
REVISION /C/	09/14/2021

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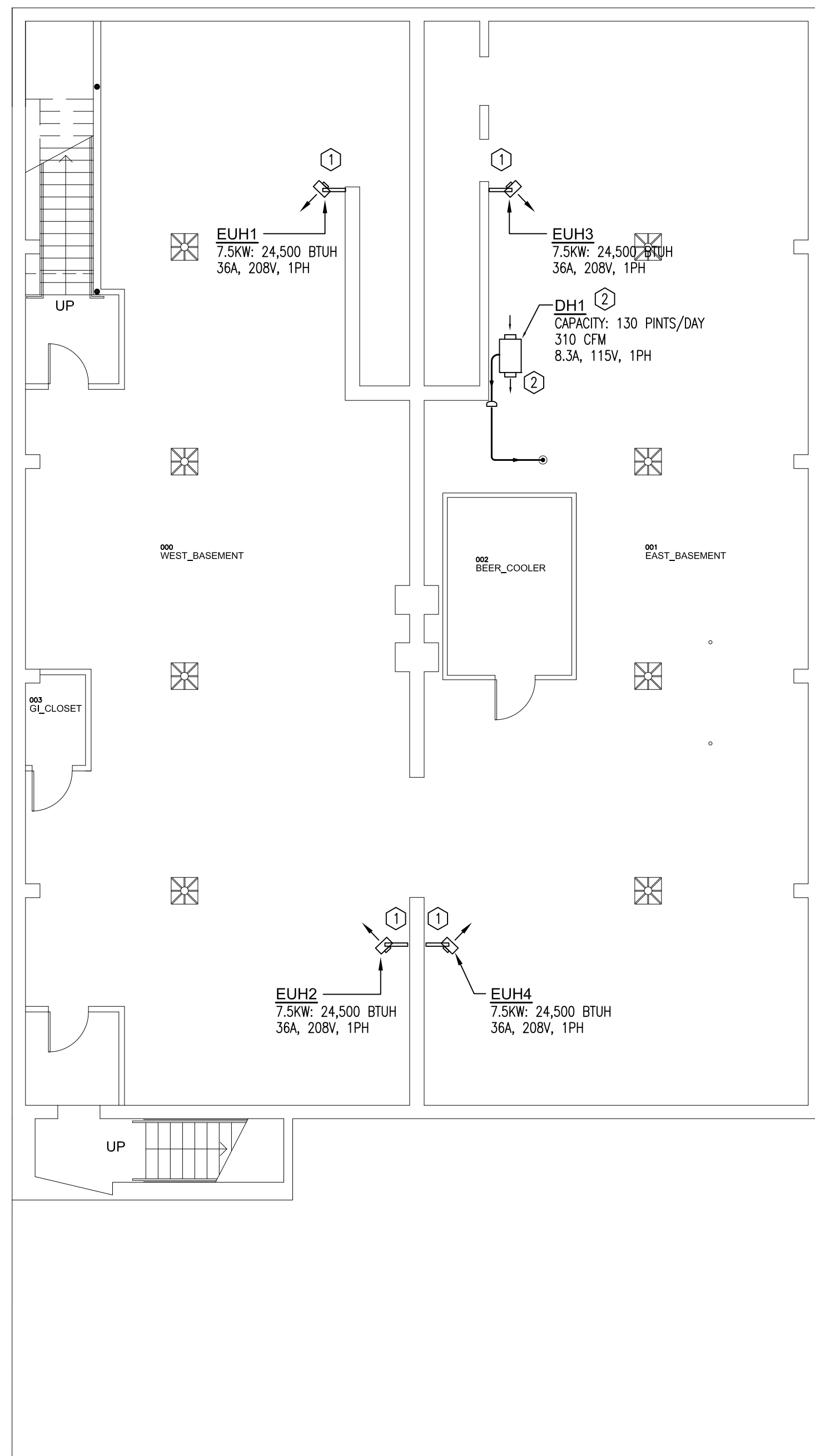
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SHEET NAME:
BASEMENT AND FIRST FLOOR PLANS - DEMOLITION

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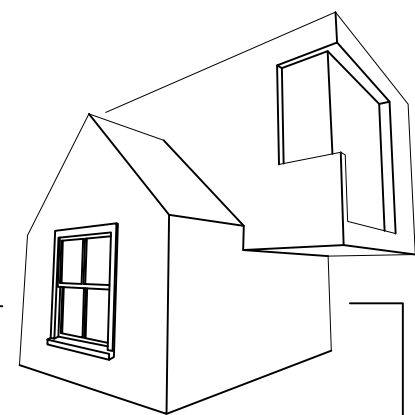
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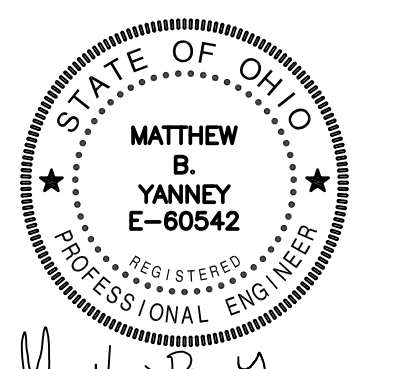
1 BASEMENT
Scale: 1/8" = 1'-0"
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CONSTRUCTION NOTES

1. PROVIDE WALL MOUNTED UNIT HEATERS TO BASEMENT SERVICE AREAS. REFER TO SCHEDULE. INSTALL HEATERS AS INDICATED AT SUFFICIENT HEIGHT ABOVE FINISHED FLOOR. AVOID FOOT TRAFFIC LOCATIONS THAT INTERFERE WITH ACCESS TO WALK-IN COOLER OR OTHER INSTALLED VENDOR EQUIPMENT. COORDINATE FINAL INSTALLATION LOCATIONS WITH GENERAL AND ELECTRICAL CONTRACTORS.
2. PROVIDE NEW BASEMENT DEHUMIDIFICATION UNIT, DH1, FLOOR MOUNTED. UNIT SHALL BE PROVIDED WITH ROLLER CASTERS FOR MOBILITY. REFER TO SCHEDULE. COORDINATE WITH E.C. FOR PLACEMENT OF ELECTRICAL RECEPTACLE WITH 6' OF EQUIPMENT LOCATION. ROUTE FULL SIZE DRAIN CONNECTION (HARD PIPED) TO FLOOR DRAIN AS INDICATED ON PLAN.



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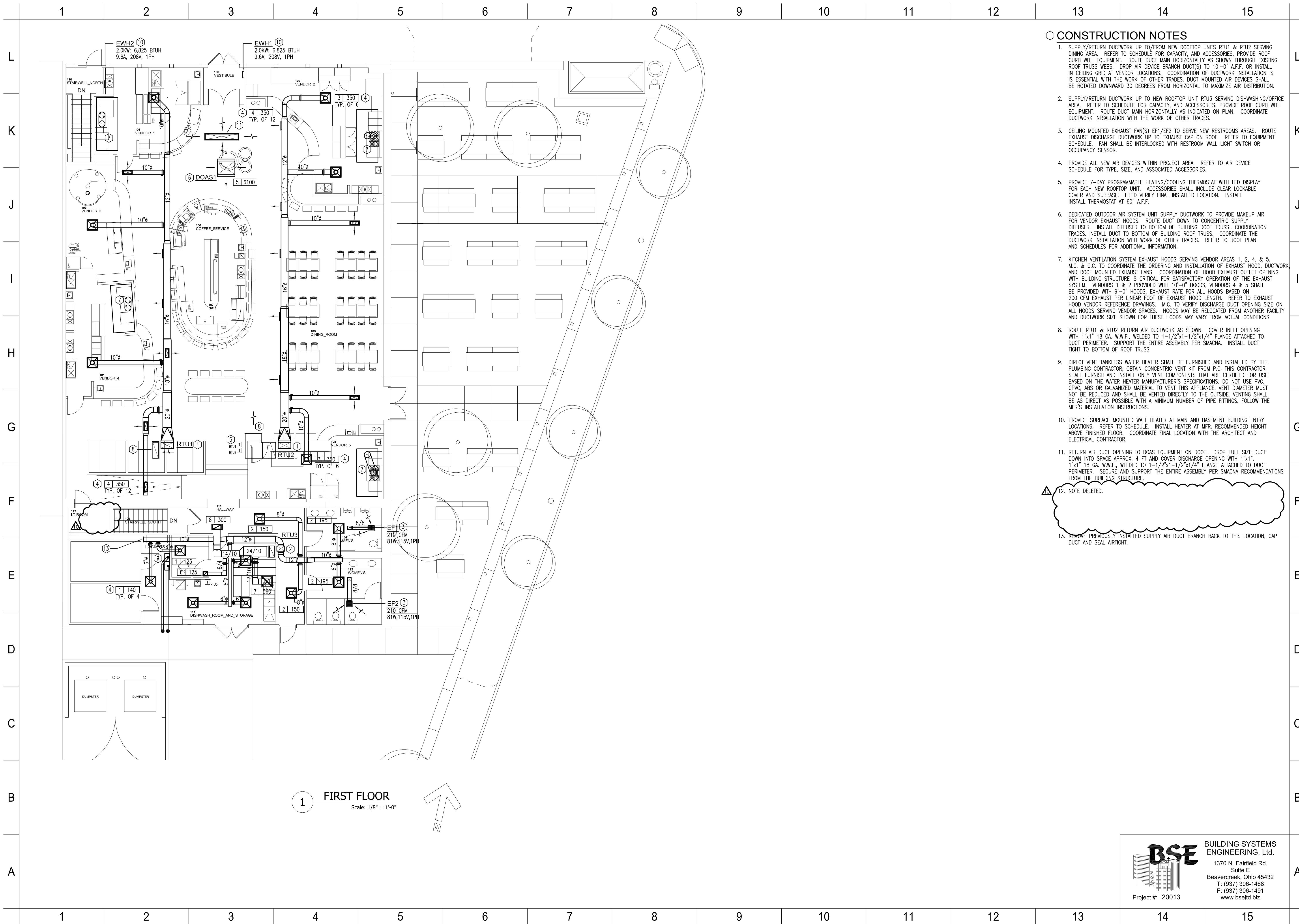
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PROJECT No.:
2020-09

SHEET NAME:
BASEMENT PLAN - NEW WORK

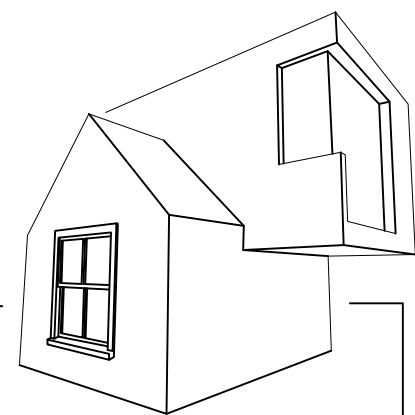
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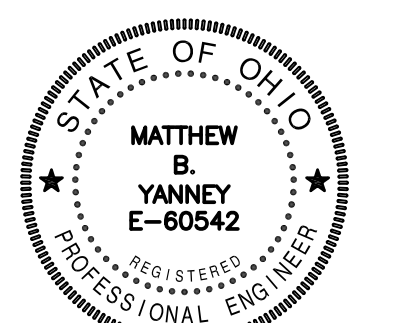


CONSTRUCTION NOTES

1. SUPPLY/RETURN DUCTWORK UP TO/FROM NEW ROOFTOP UNITS RTU1 & RTU2 SERVING DINING AREA. REFER TO SCHEDULE FOR CAPACITY, AND ACCESSORIES. PROVIDE ROOF CURB WITH EQUIPMENT. ROUTE DUCT MAIN HORIZONTALLY AS SHOWN THROUGH EXISTING ROOF TRUSS WEBS. DROP AIR DEVICE BRANCH DUCT(S) TO 10'-0" A.F.F. OR INSTALL IN CEILING GRID AT VENDOR LOCATIONS. COORDINATION OF DUCTWORK INSTALLATION IS ESSENTIAL WITH THE WORK OF OTHER TRADES. DUCT MOUNTED AIR DEVICES SHALL BE ROTATED DOWNWARD 30 DEGREES FROM HORIZONTAL TO MAXIMIZE AIR DISTRIBUTION.
2. SUPPLY/RETURN DUCTWORK UP TO NEW ROOFTOP UNIT RTU3 SERVING DISHWASHING/OFFICE AREA. REFER TO SCHEDULE FOR CAPACITY, AND ACCESSORIES. PROVIDE ROOF CURB WITH EQUIPMENT. ROUTE DUCT MAIN HORIZONTALLY AS INDICATED ON PLAN. COORDINATE DUCTWORK INSTALLATION WITH THE WORK OF OTHER TRADES.
3. CEILING MOUNTED EXHAUST FAN(S) EF1/EF2 TO SERVE NEW RESTROOMS AREAS. ROUTE EXHAUST DISCHARGE DUCTWORK UP TO EXHAUST CAP ON ROOF. REFER TO EQUIPMENT SCHEDULE. FAN SHALL BE INTERLOCKED WITH RESTROOM WALL LIGHT SWITCH OR OCCUPANCY SENSOR.
4. PROVIDE ALL NEW AIR DEVICES WITHIN PROJECT AREA. REFER TO AIR DEVICE SCHEDULE FOR TYPE, SIZE, AND ASSOCIATED ACCESSORIES.
5. PROVIDE 7-DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT WITH LED DISPLAY FOR EACH NEW ROOFTOP UNIT. ACCESSORIES SHALL INCLUDE CLEAR LOCKABLE COVER AND SUBBASE. FIELD VERIFY FINAL INSTALLED LOCATION. INSTALL THERMOSTAT AT 60" A.F.F.
6. DEDICATED OUTDOOR AIR SYSTEM UNIT SUPPLY DUCTWORK TO PROVIDE MAKEUP AIR FOR VENDOR EXHAUST HOODS. ROUTE DUCT DOWN TO CONCENTRIC SUPPLY DIFFUSER. INSTALL DIFFUSER TO BOTTOM OF BUILDING ROOF TRUSS. COORDINATION TRADES: INSTALL DUCT TO BOTTOM OF BUILDING ROOF TRUSS. COORDINATE THE DUCTWORK INSTALLATION WITH WORK OF OTHER TRADES. REFER TO ROOF PLAN AND SCHEDULES FOR ADDITIONAL INFORMATION.
7. KITCHEN VENTILATION SYSTEM EXHAUST HOODS SERVING VENDOR AREAS 1, 2, 4, & 5. M.C. & G.C. TO COORDINATE THE ORDERING AND INSTALLATION OF EXHAUST HOOD, DUCTWORK, AND ROOF MOUNTED EXHAUST FANS. COORDINATION OF HOOD EXHAUST OUTLET OPENING WITH BUILDING STRUCTURE IS CRITICAL FOR SATISFACTORY OPERATION OF THE EXHAUST SYSTEM. VENDORS 1 & 2 PROVIDED WITH 10'-0" HOODS, VENDORS 4 & 5 SHALL BE PROVIDED WITH 9'-0" HOODS. EXHAUST RATE FOR ALL HOODS BASED ON 200 CFM EXHAUST PER LINEAR FOOT OF EXHAUST HOOD LENGTH. REFER TO EXHAUST HOOD VENDOR REFERENCE DRAWINGS. M.C. TO VERIFY DISCHARGE DUCT OPENING SIZE ON ALL HOODS SERVING VENDOR SPACES. HOODS MAY BE RELOCATED FROM ANOTHER FACILITY AND DUCTWORK SIZE SHOWN FOR THESE HOODS MAY VARY FROM ACTUAL CONDITIONS.
8. ROUTE RTU1 & RTU2 RETURN AIR DUCTWORK AS SHOWN. COVER INLET OPENING WITH 1'x1' 18 GA. W.W.F., WELDED TO 1-1/2"x1-1/2"x1/4" FLANGE ATTACHED TO DUCT PERIMETER. SUPPORT THE ENTIRE ASSEMBLY PER SMACNA. INSTALL DUCT TIGHT TO BOTTOM OF ROOF TRUSS.
9. DIRECT VENT TANKLESS WATER HEATER SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. OBTAIN CONCENTRIC VENT KIT FROM P.C. THIS CONTRACTOR SHALL FURNISH AND INSTALL ONLY VENT COMPONENTS THAT ARE CERTIFIED FOR USE BASED ON THE WATER HEATER MANUFACTURER'S SPECIFICATIONS. DO NOT USE PVC, CPVC, ABS OR GALVANIZED MATERIAL TO VENT THIS APPLIANCE. VENT DIAMETER MUST NOT BE REDUCED AND SHALL BE VENTED DIRECTLY TO THE OUTSIDE. VENTING SHALL BE AS DIRECT AS POSSIBLE WITH A MINIMUM NUMBER OF PIPE FITTINGS. FOLLOW THE MFR'S INSTALLATION INSTRUCTIONS.
10. PROVIDE SURFACE MOUNTED WALL HEATER AT MAIN AND BASEMENT BUILDING ENTRY LOCATIONS. REFER TO SCHEDULE. INSTALL HEATER AT MFR. RECOMMENDED HEIGHT ABOVE FINISHED FLOOR. COORDINATE FINAL LOCATION WITH THE ARCHITECT AND ELECTRICAL CONTRACTOR.
11. RETURN AIR DUCT OPENING TO DOAS EQUIPMENT ON ROOF. DROP FULL SIZE DUCT DOWN INTO SPACE APPROX. 4 FT AND COVER DISCHARGE OPENING WITH 1'x1', 1 1/2" 18 GA. W.W.F., WELDED TO 1-1/2"x1-1/2"x1/4" FLANGE ATTACHED TO DUCT PERIMETER. SECURE AND SUPPORT THE ENTIRE ASSEMBLY PER SMACNA RECOMMENDATIONS FROM THE BUILDING STRUCTURE.
12. NOTE DELETED.
13. REMOVE PREVIOUSLY INSTALLED SUPPLY AIR DUCT BRANCH BACK TO THIS LOCATION, CAP DUCT AND SEAL AIRTIGHT.



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WEST SOCIAL FOOD HALL
 1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
 1106 W. THIRD STREET, DAYTON, OH 45402

REVISION	DATE
PERMIT	08/21/2020
REVISION A	10/13/2020
REVISION B	06/22/2021
REVISION C	09/14/2021
REVISION D	09/28/2021
REVISION E	10/13/2021
REVISION F	10/25/2021
REVISION G	11/12/2021

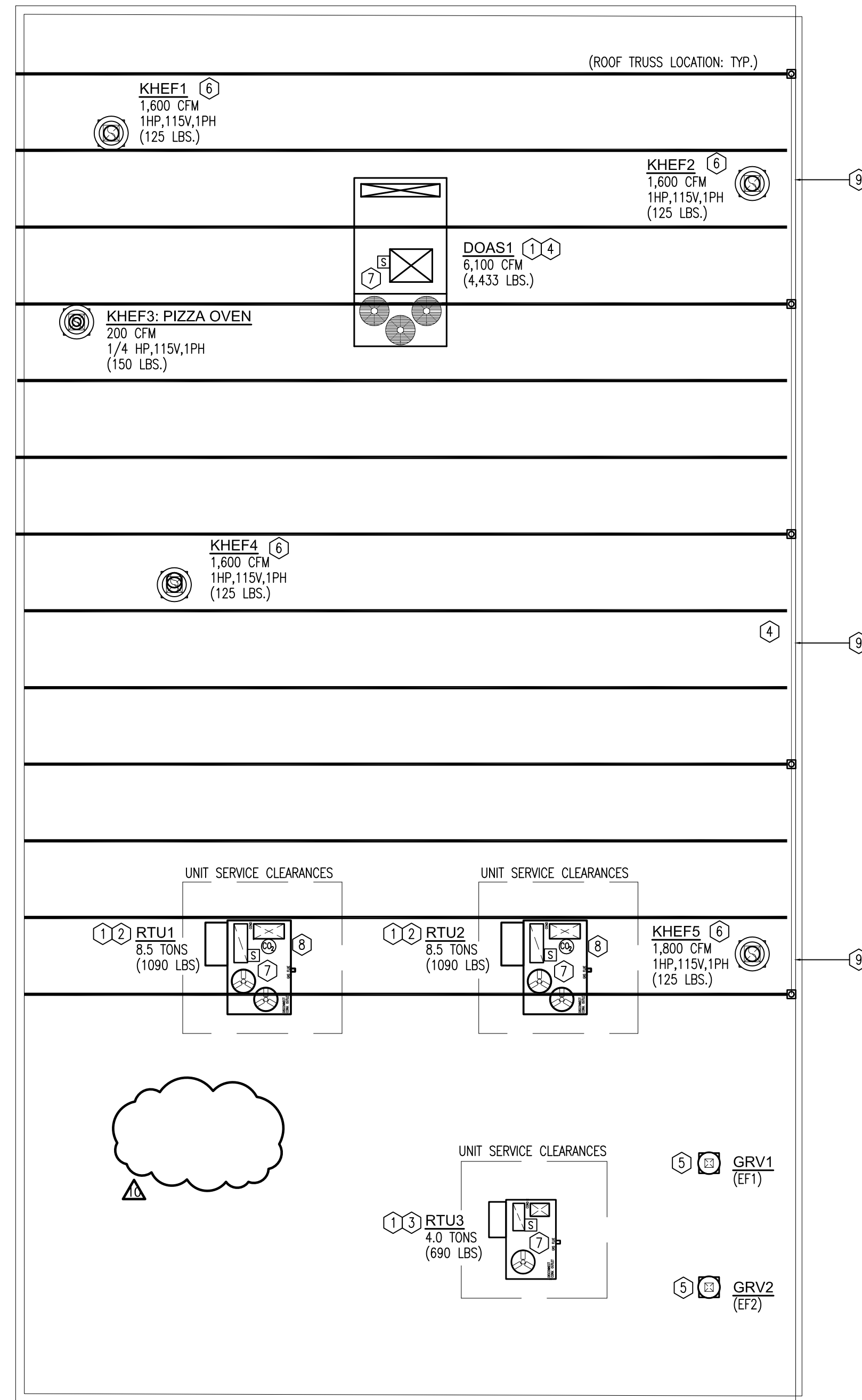
PROJECT No: _____
 2020-09

SHEET NAME:
 FIRST FLOOR PLAN - NEW WORK

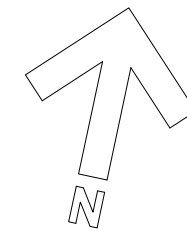
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 Project #: 20013

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1 ROOF PLAN
Scale: 1/8" = 1'-0"

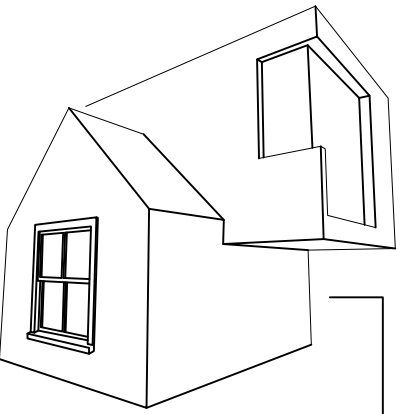


GENERAL NOTES - ROOF

- A. MECHANICAL CONTRACTOR TO COORDINATE THE FINAL LOCATIONS OF ALL ROOF PENETRATIONS WITH THE STRUCTURAL PLANS AND INSTALLATION OF ALL VENTS, DUCTWORK, ETC. WITH THE GENERAL AND ROOFING CONTRACTORS. SECURE AND SUPPORT ALL DUCT(S) PENETRATING THE ROOF FROM THE BUILDING STRUCTURE.
- B. EXISTING ROOF CURBS AND ADAPTERS SHALL NOT BE REUSED IN NEW WORK. NEW CURBS, PROVIDED BY ROOFTOP UNIT MFR. SHALL BE INSTALLED AT LOCATION SHOWN ON PLAN. M.C. TO COORDINATE ROOF CURB INSTALLATION AND FLASHING REQUIREMENTS WITH G.C. AND ROOFING CONTRACTOR.
- C. EXISTING ROOF TRUSS LOCATIONS DEPICTED FOR REFERENCE ONLY.

CONSTRUCTION NOTES

- 1. COORDINATE INSTALLATION OF ROOFTOP UNIT WITH STRUCTURAL FRAMING PLANS AND GENERAL CONTRACTOR. INSTALL 6" BATT INSULATION WITHIN ROOF CURB PRIOR TO SETTING UNIT. PROVIDE AND INSTALL FULL SIZE PVC CONDENSATE DRAIN LINE WITH P-TRAP TO DRAIN.
- 2. NEW ROOFTOP UNITS RTU1 & RTU2 TO SERVE DINING AREA. REFER TO SCHEDULE, AND NEW WORK PLAN FOR DUCT ROUTING. PROVIDE NEW ROOF CURB WITH UNIT. M.C. TO COORDINATE ROOF WORK WITH ROOFING CONTRACTOR.
- 3. NEW ROOFTOP UNIT RTU3 TO SERVE KITCHEN AREA. REFER TO SCHEDULE AND NEW WORK PLAN FOR SUPPLY AND RETURN AIR DUCT ROUTING. PROVIDE NEW ROOF CURB. COORDINATE ROOF WORK WITH ROOFING CONTRACTOR.
- 4. NEW EXHAUST HOOD VENTILATION SYSTEM DEDICATED OUTDOOR AIR SYSTEM UNITS, DOAS1, PROVIDED BY EXHAUST HOOD MANUFACTURER. REFER TO SCHEDULE FOR CAPACITY AND ACCESSORIES. PROVIDE NEW ROOF CURB WITH EQUIPMENT. ROUTE SUPPLY DUCT DOWN IN OCCUPIED SPACE TO AIR DEVICE. VERIFY FINAL LOCATION WITH ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE ROOF WORK WITH ROOFING CONTRACTOR.
- 5. INSTALL ROOF MOUNTED GRAVITY RELIEF VENTILATORS GRV1/2, AND ACCESSORIES LEVEL, PLUMB, AND IN ACCORDANCE WITH THE MFR'S INSTRUCTIONS. EQUIPMENT SHALL BE PROVIDED WITH MFG.'S INSULATED ROOF CURB. COORDINATE INSTALLATION WITH G.C. AND ROOFING CONTRACTOR.
- 6. INSTALL ROOF MOUNTED EXHAUST HOOD FANS LEVEL, PLUMB AND IN ACCORDANCE WITH THE MFR'S INSTRUCTIONS. PROVIDE FAN WITH MFG.'S INSULATED ROOF CURB. COORDINATE INSTALLATION WITH G.C., E.C., AND ROOFING CONTRACTORS. EQUIPMENT PROVIDED BY THE KITCHEN VENTILATION SYSTEM MANUFACTURER. REFER TO SCHEDULE.
- 7. RETURN AIR DUCT SMOKE DETECTOR SHALL BE FACTORY INSTALLED AND POWERED IN ALL PACKAGED ROOFTOP UNITS. REFER TO GENERAL NOTE W, SHEET M204 FOR UNITS THAT SHALL BE INTERLOCKED TO SHUT DOWN TOGETHER UPON DETECTION OF SMOKE BY ANY UNIT IN THAT GROUP.
- 8. CARBON DIOXIDE (CO2) SENSOR SHALL BE PROVIDED BY THE UNIT MANUFACTURER; SENSOR CAN BE FACTORY OR FIELD-INSTALLED. DEVICE SHALL CONTROL OUTDOOR AIR DAMPER BASED ON OCCUPANCY/CO2 LEVELS.
- 9. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT AND G.C. FOR THE INSTALLATION OF A HORIZONTAL ROOFLINE FALL PROTECTION SYSTEM AT EDGE OF BUILDING ROOF. FALL PROTECTION SYSTEM SHALL BE OSHA COMPLIANT, AND SECURED TO BUILDING STRUCTURE.



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LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	QUANTITY			LAMPS	FIXTURE VOLTAGE	DESCRIPTION	TRIM COLOR			MOUNTING			SIZE (IN.)			WET LOCATION	
	FLUORESCENT	INCANDESCENT	LED				WHITE	BLACK	OTHER	RECESSED SURFACE	MOUNTING HEIGHT	OTHER	DIAMETER OR WIDTH	LENGTH	DEPTH		
B1		●	36	4000 LUMENS, 3000K	120	LITHONIA #ENVX-2X2-HRG-4000LM-80CRI-30K-MIN10ZT-120	VENDOR 2X2 TROFFER	W			R			24	24	3.5	
B2		●	31.5	3555 LUMENS, 3500K	120	LITHONIA #CPX2X23200LM35KM4	BACK HALL, RR'S 2X2 TROFFER	W			R			24	24	1.5	
B3		●	38.9	4000 LUMENS, 3500K	120	LITHONIA #CPX-2X4-4000LM-35K-M2	DISHWASHING/STORAGE ROOM TROFFER	W			R			24	48	1.5	
C1		●	19	2576 LUMENS, 3500K	120	COLUMBIA #LCL435LWEU	LED STRIP LIGHT	W			S			4.5	48	4	
EM1		●	2	TWO HEADS WITH FIXTURE	120	DUAL-LITE #EV40I-02L	WALL MOUNTED EMERGENCY LIGHT	W			S			5	8.5	2.25	
EM2		●	1	TWO HEADS WITH FIXTURE	120	DUAL-LITE #EV0DW	REMOTE EXTERIOR EMERGENCY LIGHT	W			S						
EM3		●	2	TWO HEADS WITH FIXTURE	120	DUAL-LITE #EV40I-02L	CEILING MOUNTED EMERGENCY LIGHT	W			S			5	8.5	2.25	
F1		●	24	2500 LUMENS, 3000K	120	INTENSITY #GDS4DR-L430-NF/RDS402W-SFW-SL	RECESSED LED CAN LIGHT LENSED	W			R			5	DIA	4	
M1		●	3	WARM WHITE LED 3W BULBS	120	CAJ MARKETLITE #ML2000-CACA-36"-2.7K-GFSL G-SSC-DM-WET-BK-BK (5)	MARKET LITE EXTERIOR STRING LED LIGHTS	W		B							
P1		●	6	SE 60-W ED 5119 WARM CANDLE DIMMABLE EDISON BULB	120	PARK HARBOR #PHPL6571BN-PHPL6571GLS (4)	CORD HUNG BOWL LIGHT, DIMMABLE	W			S						
P2		●	6	SE 60-W ED 5119 WARM CANDLE DIMMABLE EDISON BULB	120	ACCESS LIGHTING #23089FC-BS (3)	CORD HUNG DECORATIVE BULB, DIMMABLE	W		BRUSHED STEEL	S						
S1		●	24	3000 LUMEN, 3000K	120	ANP LIGHTING #M714M024LDDW30K-ST-SRTCC-E6-100GLCL (6)	EXTERIOR WALL SCONCE	W		B							
T1		●	5/FT	3000K, 495 LUMENS/FT	24	WAC LIGHTING #LED-TX24-30-LENGTH PER PLAN-WT/EN-2460-RB2-T (7)	FLEXIBLE LINEAR LED	W			S				PER PLAN		
W1		●	21	2299 LUMENS, 4000K	120	DECO LIGHTING #WVNCI-LED-20-40-UNV-BZ	EXTERIOR SECURITY WALL PACK	W		BRONZE	S	12"	WALL MOUNTED	6.5	8	4.5	
W2		●	77.4	9673 LUMENS, 4000K	120	DECO LIGHTING #D464-L-80-40-U-X	EXTERIOR SECURITY WALL PACK	W		BRONZE	S	14"	WALL MOUNTED	12.6	7.5	10	
X1		●	1	TWO HEADS WITH FIXTURE	120	DUAL-LITE #EVCURWD41	EXIT SIGN/EMERGENCY LIGHT WITH REMOTE CAPACITY	W			S			12	9	2.5	
X2		●	1	TWO HEADS WITH FIXTURE	120	DUAL-LITE #EVCURWD1	EXIT SIGN/EMERGENCY LIGHT	W			S			12	9	2.5	

LEGEND/LIGHTING SCHED NOTES

- PROVIDE SINGLE GANG BOX WITH 1" EXTENDED TO ABOVE CEILING WITH 90 DEGREE BEND, BUSHED END, AND PULL WIRE, OR DOWN TO BASEMENT. COORDINATE INTENDED WIRING PATH REQUIRED WITH OWNER'S TELECOMMUNICATION CONTRACTOR. PROVIDE BLANK COVERPLATES ON BOXES NOT UTILIZED BY OWNER'S TELECOMMUNICATIONS CONTRACTOR.
- POWER PACKS SHALL BE SERVED AHEAD OF LOCAL SWITCHING SUCH THAT POWER IS ALWAYS APPLIED TO OCCUPANCY SENSORS IN ORDER FOR INTEL-LIDAPT FEATURE OF OCCUPANCY SENSORS TO FUNCTION PROPERLY.
- FIXTURE SHALL BE PROVIDED FACTORY SUPPLIED LABEL INDICATING MAXIMUM WATTAGE OF ZONE. LOCATION OF LABEL ON FIXTURE SHALL BE INDICATED ON SHOP DRAWING SUBMITTAL, AND APPROVED BY ARCHITECT PRIOR TO ORDER. COORDINATE EXACT CORD LENGTH AND MOUNTING HEIGHT ABOVE FLOOR WITH ARCHITECT.
- COORDINATE EXACT CORD LENGTH AND MOUNTING HEIGHT ABOVE FLOOR WITH ARCHITECT. FIXTURE LISTED IS SIMILAR TO STYLE DESIRED, AND SHALL BE USED FOR BIDDING PURPOSES, BUT ACTUAL FIXTURE SHALL BE SELECTED BY ARCHITECT. FIXTURE WATTAGE SHALL NOT EXCEED 60W RATING.
- STRING LIGHTING SHALL BE MOUNTED FROM AIRCRAFT CABLE SUPPORTED AT BUILDING EAST EXTERIOR WALL AND FROM 4X4 POSTS PROVIDED 8-12' ON CENTER ALONG WILLIAMS STREET PATIO EDGE. ALLOW FOR TOTAL LENGTH OF 600' OF LIGHTING; COORDINATE EXACT PATTERN OF INSTALLATION WITH ARCHITECT. FIXTURE AS SPECIFIED SHALL BE USED FOR BIDDING PURPOSES, BUT ACTUAL FIXTURE SHALL BE SELECTED BY ARCHITECT.
- FIXTURE AS SPECIFIED SHALL BE USED FOR BIDDING PURPOSES, BUT ACTUAL FIXTURE SHALL BE SELECTED BY ARCHITECT.
- PROVIDE LEAD WIRES, JOINER CABLES, CONNECTORS, MOUNTING CLIPS, AND ANY OTHER COMPONENTS AS NECESSARY FOR COMPLETE FUNCTIONING SYSTEM. REFER TO LIGHTING PLAN SHEET E-204 FOR LENGTHS OF LED STRIPS LOCATED ABOVE EACH VENDOR STATION. PROVIDE POWER SUPPLY FOR EACH VENDOR STATION. FIXTURE SHALL BE USED FOR BIDDING PURPOSES. COORDINATE WITH ARCHITECT FOR MOUNTING DETAILS OF LED FLEXIBLE STRIP INTO ARCHITECTURAL BAND ABOVE EACH VENDOR'S STATION.
- REMOVE NEMA 5-20R, 20A-120V DUPLEX RECEPTACLE FOR FLAT SCREEN TV/MENU BOARDS. LOCATE DEVICES HIGH ADJACENT TO SCREENS. DATA AND COAX CABLES PROVIDED AND INSTALLED BY OTHERS.

LEGEND

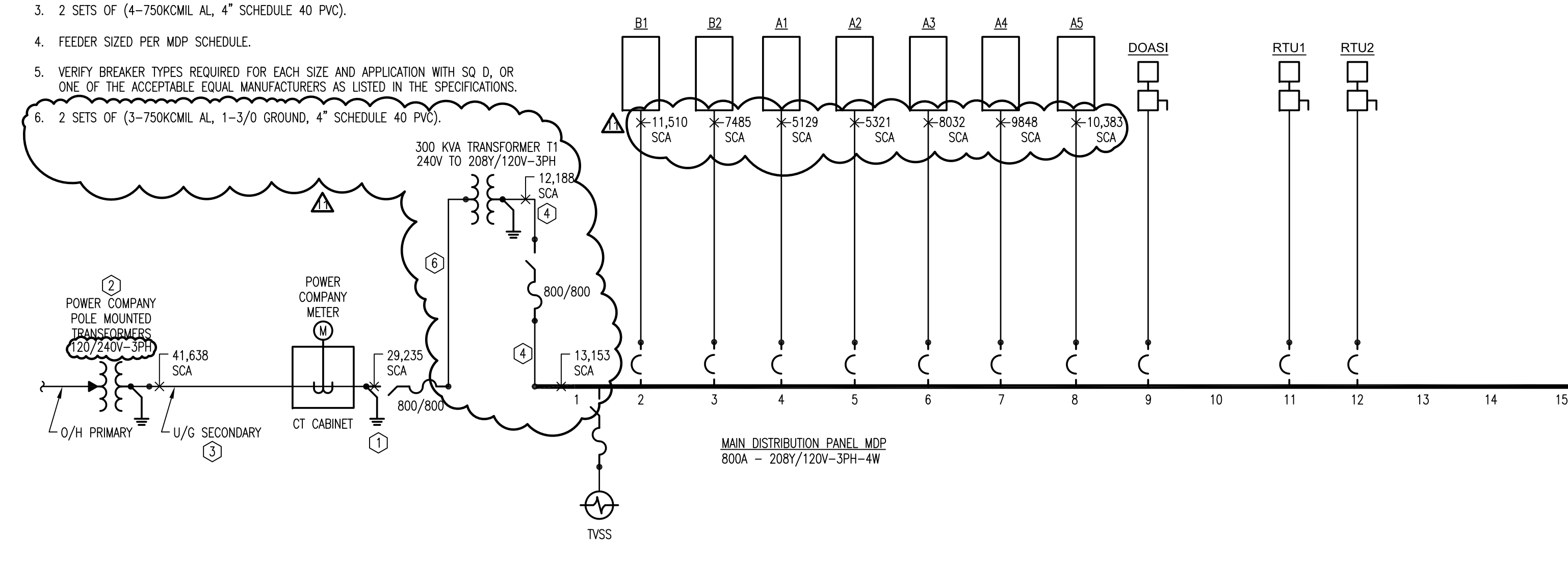
- NEMA 5-20R, 20A-120V, DUPLEX RECEPTACLE, 18" MH.
- FLUSH CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R, 20A-120V.
- NEMA 5-20R, 20A-120V, DUPLEX RECEPTACLE, 46" MH.
- NEMA 5-20R, 20A-120V, DUPLEX GROUND FAULT RECEPTACLE, 46" MH.
- NEMA 5-20R, 20A-120V, DUPLEX WEATHER RESISTANT GROUND FAULT RECEPTACLE WITH IN-USE WEATHERPROOF COVER, 18" MH.
- SPECIAL RECEPTACLE. REFER TO KITCHEN EQUIPMENT SCHEDULE FOR NEMA TYPE AND MOUNTING HEIGHT.
- NEMA 5-20R, 20A-120V, QUADRUPLEX RECEPTACLE, 18" MH.
- JUNCTION BOX.
- DISCONNECT SWITCH.
- MAGNETIC MOTOR STARTER.
- COMBINATION MAGNETIC MOTOR STARTER / DISCONNECT SWITCH.
- MOTOR.
- FLUSH MOUNTED PANELBOARD.
- SURFACE MOUNTED PANELBOARD.
- EXIT LIGHTING FIXTURE, ARROWS AS SHOWN ON PLAN.
- BATTERY POWERED EXIT SIGN WITH EMERGENCY LAMP HEADS.
- BATTERY POWERED EMERGENCY LIGHTING FIXTURE.
- REMOTE BATTERY POWERED EMERGENCY LIGHT.
- LIGHTING FIXTURE, FIXTURE TYPE PER SCHEDULE, LOWER CASE IF INDICATED DESIGNATES SWITCHING CONFIGURATION.
- SINGLE POLE TOGGLE SWITCH, 46" MH.
- SINGLE POLE, 30A-120V, TOGGLE SWITCH, HORSE POWER RATED, 46" MH.
- TWO POLE TOGGLE SWITCH, 46" MH.
- TWO POLE, 30A-240V, TOGGLE SWITCH, HORSE POWER RATED, 46" MH.
- THREE-WAY TOGGLE SWITCH, 46" MH.
- FOUR-WAY TOGGLE SWITCH, 46" MH.
- DIMMER SWITCH, 46" MH. PROVIDE COMPATIBLE DIMMER TYPE FOR EACH APPLICATION; ELV, 0-10V, ETC.
- MANUAL MOTOR STARTER, 46" MH.
- LOW VOLTAGE MOMENTARY CONTACT SWITCH, 46" MH.
- OCCUPANCY SENSOR, PASSIVE INFRARED ONLY, HUBBELL #LHRS1-N-W, 120V, 46" MH., IVORY.
- COMBINATION 0-10V DIMMER AND OCCUPANCY SENSOR, EQUAL TO HUBBELL #LHD-IRS3-N-W, 1000 VA, 120V, 46" MH., IVORY.
- CEILING MOUNTED OCCUPANCY SENSOR, ULTRASONIC ONLY, HUBBELL #OMNUS500 WITH JUVPP POWER PACK.
- TELEPHONE OUTLET, 46" MH. (1)
- TELEPHONE OUTLET, 18" MH. (1)
- TELEPHONE/DATA OUTLET, 18" MH. (1)
- TELEPHONE/DATA OUTLET, 46" MH. (1)
- CONDUIT.
- (THREE) PHASE CONDUCTORS, THREE NEUTRALS (DEDICATED NEUTRAL FOR EACH CIRCUIT) + GROUND IN CONDUIT, SERVED FROM PANEL (PPA), CIRCUITS (1,3&5).
- DASHED SYMBOL - DEVICE / FIXTURE TO BE REMOVED.
- EXISTING DEVICE / FIXTURE TO REMAIN.
- ABOVE FINISHED FLOOR MOUNTING HEIGHT MEASURED TO BOTTOM EDGE OF DEVICE/FIXTURE.
- EXISTING.
- SURFACE MOUNTED.
- ELECTRICAL CONTRACTOR.
- GENERAL CONTRACTOR.
- MECHANICAL CONTRACTOR.
- MOUNTING HEIGHT MEASURED TO CENTERLINE OF DEVICE / FIXTURE.
- PLUMBING CONTRACTOR.
- WEATHERPROOF.
- FIRE ALARM MANUAL PULL STATION, 46" MH.
- FIRE ALARM STROBE, 80" MH. SUBSCRIPT INDICATES CANDELLA RATING.
- FIRE ALARM HORN / STROBE, 80" MH. SUBSCRIPT INDICATES CANDELLA RATING.
- FIRE ALARM SMOKE DETECTOR.
- FIRE ALARM DUCT OR UNIT MOUNTED SMOKE DETECTOR.
- FIRE ALARM WATER FLOW SWITCH.
- FIRE ALARM SUPERVISORY TAMPER SWITCH.
- TV/MENU OUTLET, CEILING (8)

SINGLE LINE DIAGRAM NOTES

- PROVIDE ALL GROUNDING AND BONDING PER SPECIFICATION SECTION 260526 AND AS REQUIRED BY NEC ARTICLE 250; REFER TO GROUNDING DIAGRAM, THIS SHEET. PROVIDE INTERSYSTEM BONDING FOR LOW VOLTAGE SYSTEMS PER NEC 250.94.
- COORDINATE WITH POWER COMPANY FOR INSTALLATION OF 3-100 KVA POLE MOUNTED TRANSFORMERS. FAULT CURRENT VALUES ARE BASED ON 3-100 KVA TRANSFORMERS WITH 2.0% IMPEDANCE, INFINITE PRIMARY, AND 1095 SCA MOTOR CONTRIBUTION AT MAIN BUS. SUBMIT SERVICE APPLICATION FORMS TO POWER COMPANY EARLY IN PROJECT CONSTRUCTION PHASE.
- 2 SETS OF (4-750KCMIL AL, 4" SCHEDULE 40 PVC).
- FEEDER SIZED PER MDP SCHEDULE.
- VERIFY BREAKER TYPES REQUIRED FOR EACH SIZE AND APPLICATION WITH SQ D, OR ONE OF THE ACCEPTABLE EQUAL MANUFACTURERS AS LISTED IN THE SPECIFICATIONS.
- 2 SETS OF (3-750KCMIL AL, 1-3/0 GROUND, 4" SCHEDULE 40 PVC).

MAIN DISTRIBUTION PANEL MDP Δ

SPEC. SECTION - 262416		SCR - 42K		LOCATION - BASEMENT							
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 800A MLO		FEEDER - 2 SETS OF (4-#750KCMIL AL, 1-#3/0 AL GROUND, 4")							
CONN. KVA - 274.5		DEMAND KVA - 250.2		DEMAND AMPS - 694							
SWITCH OR UNIT NO.	LOAD	CONN. KVA	DEMAND KVA	OCP			FEEDER				
				BREAKER SIZE	POLES	SCR RATING OF BREAKER	SO D BREAKER	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
1	MAIN LUGS & TVSS	-	-	-	3	65	QG	4	1/0	6	2
2	PANEL B1	41.3	40.7	150	3	65	QG	4	1	6	1.5
3	PANEL B2	25.5	22.4	125	3	65	QG	4	1	6	1.5
4	PANEL A1	27.5	19.2	100	3	65	QG	4	2	6	1.5
5	PANEL A2	30.4	24.4	100	3	65	QG	4	2	6	1.5
6	PANEL A3	12.7	12.1	100	3	65	QG	4	2	6	1.5
7	PANEL A4	55.4	52.7	225	3	65	QG	4	4/0	4	2.5
8	PANEL A5	8.3	8.0	100	3	65	QG	4	2	6	1.5
9	DOAS1	42.0	42.0	150	3	65	QG	3	1/0	6	1.5
10	SPACE										
11	RTU1	15.7	15.7	60	3	65	QG	3	6	10	1
12	RTU2	15.7	15.7	60	3	65	QG	3	6	10	1
13	4.5" MOUNTING SPACE										
14	4.5" MOUNTING SPACE										
15	4.5" MOUNTING SPACE										



SINGLE LINE DIAGRAM
SCALE: NONE

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WRIGHT-DUNBAR INC.
1106 W. THIRD STREET, DAYTON, OH 45402

REVISION	DATE
PERMIT	08/21/2020
REVISION (A)	10/13/2020
REVISION (B)	06/22/2021
REVISION (C)	09/14/2021
REVISION (D)	09/28/2021
REVISION (E)	10/13/2021
REVISION (F)	10/25/2021
REVISION (G)	11/12/2021
REVISION (H)	12/17/2021

PROJECT No.: 2020-09

SHEET NAME:
LEGEND, SCHEDULES & DETAILS

BSE BUILDING SYSTEMS ENGINEERING, Ltd.
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Project #: 20013

DIV. 26 & 28 - ELECTRICAL SPECIFICATIONS

26 0500 - COMMON WORK RESULTS FOR ELECTRICAL

- A. CUTTING OF EXISTING OR NEW CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR.
- PATCHING OF THE CUTTING PROCEDURES IS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION AND ADJACENT CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE.
- B. DEMOLITION OF EXISTING ITEMS OR MATERIAL SHALL BE COMPLETELY REMOVED UNLESS OTHERWISE INDICATED TO BE REUSED, SALVAGED, OR REINSTALLED. ANY SALVAGED ITEMS OR MATERIAL SHALL BE TURNED OVER TO THE OWNER.
- REMOVE, REPLACE, PATCH, AND REPAIR MATERIALS AND SURFACES CUT OR DAMAGED DURING DEMOLITION, BY METHODS AND WITH MATERIALS SO AS NOT TO VOID EXISTING WARRANTIES.
- MAINTAIN AND DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO AUTHORITIES HAVING JURISDICTION.
- C. CLOSEOUT PROCEDURES SHALL BE CONDUCTED BEFORE REQUESTING INSPECTION FOR SUBSTANTIAL COMPLETION. CONTRACTOR SHALL PREPARE A LIST OF ITEMS TO BE COMPLETED AND CORRECTED (PUNCH LIST), AND REASONS WHY THE WORK IS NOT COMPLETE.
- SUBMIT SPECIFIC WARRANTIES, WORKMANSHIP BONDS, MAINTENANCE SERVICE AGREEMENTS, FINAL CERTIFICATIONS, AND SIMILAR DOCUMENTS.
- PREPARE AND SUBMIT PROJECT RECORD DRAWINGS AND DOCUMENTS INCLUDING OPERATION AND MAINTENANCE MANUALS. COMPLETE ALL STARTUP TESTING OF SYSTEMS AND SUBMIT ALL TESTING AND BALANCE REPORTS. ADVISE OWNER OF CHANGEOVER OF ALL UTILITIES.
- D. OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE O&M INFORMATION FOR EACH PIECE OF EQUIPMENT INCLUDING: MFR'S INFORMATION; LIST OF SPARE PARTS; NAME, ADDRESS, AND TELEPHONE NUMBER OF INSTALLER OR SUPPLIER; MAINTENANCE PROCEDURES; COPIES OF MAINTENANCE SERVICE AGREEMENTS, WARRANTIES AND BONDS. BIND AND INDEX DATA IN HEAVY-DUTY, 3-RING, VINYL-COVERED, LOOSE-LEAF BINDERS.
- E. WARRANTIES: PROVIDE MANUFACTURER'S STANDARD WARRANTIES FOR EACH PIECE OF EQUIPMENT UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE A WARRANTY FOR HIS WORK FOR A MINIMUM OF 1 YEAR AFTER DATE OF COMPLETION.
- F. DEMONSTRATION AND TRAINING: INSTRUCT OWNER'S PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN SYSTEMS, SUBSYSTEMS, AND EQUIPMENT NOT PART OF A SYSTEM. INSTRUCTORS SHALL BE EXPERIENCED IN OPERATION AND MAINTENANCE PROCEDURES. FOR EQUIPMENT THAT REQUIRES SEASONAL OPERATION, PROVIDE SIMILAR INSTRUCTION AT THE START OF EACH SEASON.
- G. COORDINATION AMONG ALL TRADES IS MANDATORY. ANY COST CHANGES RESULTING FROM THE LACK OF COORDINATION, SHALL BE BORNE BY THE CONTRACTOR CREATING THE CONFLICT.
- H. SUBMITTALS SHALL INCLUDE ALL PRODUCT DATA, SPECIALTIES, ACCESSORIES, POWER, SIGNAL, AND CONTROL WIRING DIAGRAMS.
- I. 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.
- J. COMPLY WITH NFPA 70 AND ALL OTHER APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES AND REGULATIONS.
- K. CONDUCTORS, NO. 10 AWG AND SMALLER SHALL BE SOLID OR STRANDED; LARGER THAN NO. 10 AWG SHALL BE STRANDED. ALL CONDUCTORS SHALL BE COPPER EXCEPT FOR SERVICE ENTRANCE AND MOP FEEDER INDICATED AS ALUMINUM. INSULATION TYPE THW, OR THHN-THWN.
- L. ENGRAVED-PLASTIC LABELS: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE, 1/16" THICK FOR LABELS UP TO 20 SQ. IN., 1/8" THICK FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
- M. INSTALL MATERIALS LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS.
- N. INSTALL ALL WIRING IN EMT, IMC, RMC, RNC, OR LFMC. UTILIZE RMC, SCHEDULE 40, UNDERGROUND AND IN CONCRETE. UTILIZE LFMC FOR CONNECTIONS TO VIBRATING EQUIPMENT. UTILIZE RMC FOR EXPOSED EXTERIOR INSTALLATIONS. CONCEAL RACEWAYS AND CABLES WITHIN CONNECTIONS TO LIGHT FIXTURES. MC CABLE MAY BE UTILIZED FOR CONCEALED DROPS IN WALLS.
- O. INSTALL PULL WIRES IN EMPTY RACEWAYS.
- P. INSTALL CONTINUOUS UNDERGROUND PLASTIC MARKERS DURING TRENCH BACKFILLING FOR POWER AND COMMUNICATION LINES; LOCATE 6-8 INCHES BELOW FINISHED GRADE.
- Q. APPLY FIRESTOPPING TO CABLE-RACEWAY SLEEVES AND OTHER PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL UNDISTURBED FIRE-RESISTANCE RATINGS OF ASSEMBLIES.

26 0526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- A. GROUND RODS: COPPER-CLAD STEEL, 5/8 BY 96 INCHES UNLESS NOTED OTHERWISE.
 - B. USE EXOTHERMIC-WELDED CONNECTIONS FOR CONNECTION TO STRUCTURAL STEEL AND FOR UNDERGROUND CONNECTIONS.
 - C. BOND INTERIOR METAL PIPING SYSTEMS AND METAL AIR DUCT TO EQUIPMENT GROUNDING CONDUCTORS OF ASSOCIATED EQUIPMENT. USE BRAIDED-TYPE BONDING STRAPS. BOND EACH ABOVE GROUND PORTION OF GAS PIPING SYSTEM UPSTREAM FROM EQUIPMENT SHUT-OFF VALVE.
 - D. INSTALL INSULATED GROUNDING CONDUCTORS IN ALL FEEDER AND BRANCH CIRCUITS.
- 26 2416 - PANELBOARDS**
- A. MANUFACTURERS: EATON CORPORATION (CUTLER-HAMMER), G.E. CO., SIEMENS ENERGY AND AUTOMATIC INC., OR SQUARE D.
 - B. DISTRIBUTION 800A PANELBOARD SHALL BE SIMILAR TO SQUARE D HCM MERCHANDISED PANELBOARD. PROVIDE BREAKERS SUITABLE FOR AVAILABLE FAULT CURRENT.
 - C. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS SHALL HAVE BOLT-ON BREAKERS. DOORS SHALL HAVE CONCEALED HINGES; SECURED WITH FLUSH LATCH WITH TUMBLER LOCK; KEYS ALIKE. ENTIRE FRONT TRIM SHALL BE HINGED TO BOX WITH STANDARD DOOR WITHIN HINGED TRIM COVER.
 - D. PANELS SHALL HAVE PHASE, GROUND, AND NEUTRAL BUSES OF HARD-DRAWN COPPER, 98% CONDUCTIVITY. GROUND LUGS AND BUS CONFIGURED TERMINATORS SHALL BE COMPRESSION TYPE. MOUNTING BRACKETS AND BUS EXTENSIONS SHALL BE PROVIDED TO ALLOW FOR FUTURE INSTALLATION OF DEVICES.
 - E. PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. REFER TO VALUES ON SCHEDULES AND SINGLE-LINE DIAGRAM. SERIES RATING IS REQUIRED TO ACCOMMODATE 10K RATED GROUND FAULT BREAKERS OF SIZES LARGER THAN 20A.
 - F. MOUNT TOP OF TRIM 74" ABOVE FINISHED FLOOR, EXCEPT FOR 800A PANELBOARD WHICH SHALL BE SET ON CONCRETE PAD.
 - G. LABEL EACH PANELBOARD WITH NAMEPLATE. PROVIDE TYPED CIRCUIT DIRECTORY AFTER BALANCING PANELBOARD LOADS.

26 2726 - WIRING DEVICES

- A. WIRING DEVICES BY COOPER WIRING DEVICES, HUBBELL INC. OR PASS & SEYMOUR/LEGRAND.
- B. RECEPTACLES AND TOGGLE SWITCHES SHALL BE HEAVY-DUTY OR INDUSTRIAL SPECIFICATION GRADE, IVORY. SWITCHES SHALL BE 20A, 120V/277V AC. RECEPTACLES SHALL BE 20A DUPLEX NEMA 5-20R.
- C. WALL PLATES: 0.035" THICK, SATIN-FINISHED STAINLESS STEEL WITH METAL SCREWS, HEADS TO MATCH PLATE FINISH.
- D. STRAIGHT BLADE RECEPTACLES
 - 1. CONVENIENCE RECEPTACLES, 125V, 20A; PROVIDE ONE OF THE FOLLOWING:
 - a. COOPER; 5351 (SINGLE), 5352 (DUPLEX).
 - b. HUBBELL; HBL5351 (SINGLE), CR5352 (DUPLEX).
 - c. PASS & SEYMOUR; 5351 (SINGLE), 5352 (DUPLEX).
- E. GFCI RECEPTACLES
 - 1. DUPLEX GFCI CONVENIENCE RECEPTACLES, 125V, 20A; PROVIDE ONE OF THE FOLLOWING:
 - a. COOPER; GF20.
 - b. HUBBELL; GF20 SERIES.
 - c. PASS & SEYMOUR; 2084.
- F. EXTERIOR RECEPTACLES SHALL BE WEATHER-RESISTANT TYPE, U.L. LISTED FOR APPLICATION, AND PROVIDED WITH IN-USE WEATHERPROOF COVER.
- G. TOGGLE SWITCHES
 - 1. 20A SWITCHES, PROVIDE ONE OF THE FOLLOWING:
 - a. COOPER; AH1221 (SINGLE POLE), AH1222 (TWO POLE), AH1223 (THREE WAY), AH1224 (FOUR WAY).
 - b. HUBBELL; CS1221 (SINGLE POLE), CS1222 (TWO POLE), CS1223 (THREE WAY), CS1224 (FOUR WAY).
 - c. PASS & SEYMOUR; 20AC1 (SINGLE POLE), 20AC2 (DOUBLE POLE), 20AC3 (THREE WAY), 20AC4 (FOUR WAY).

26 2813 - FUSES

- A. CARTRIDGE FUSES RATED 600V AND LESS FOR USE IN SWITCHES, PANELBOARDS, AND CONTROLLERS SHALL COMPLY WITH NEMA FU1, MANUFACTURED BY COPPER BUSSMAN INC., FERRAZ SHUMUT INC., OR LITTLEFUSE INC.
- B. FUSES SHALL BE RK1, TIME DELAY.
- C. INSTALL LABELS INDICATING FUSE REPLACEMENT INFORMATION ON INSIDE DOOR OF EACH FUSED SWITCH.

26 2816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

- A. FUSIBLE AND NON FUSIBLE SWITCHES: NEMA KS1, HEAVY DUTY, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, INTERLOCKED WITH COVER IN CLOSED POSITION. MANUFACTURED BY EATON CORP (CUTLER-HAMMER), G.E. CO., SIEMENS ENERGY AND AUTOMATION INC., OR SQUARE D/GROUP SCHNEIDER.
- B. FOR OUTDOOR LOCATIONS, PROVIDE NEMA 250, TYPE 3R ENCLOSURES.

26 2913 - ENCLOSED CONTROLLERS

- A. COORDINATE FEATURES, ACCESSORIES, AND FUNCTIONS OF EACH ENCLOSED CONTROLLER WITH RATINGS AND CHARACTERISTICS OF SUPPLY CIRCUIT, MOTOR, REQUIRED CONTROL SEQUENCE, AND DUTY CYCLE OF MOTOR AND LOAD.
- B. MANUFACTURERS: ABB POWER DISTRIBUTION INC., EATON CORP. (CUTLER-HAMMER), G.E. CO., ALLEN BRADLEY CO., SIEMENS/FURNAS CONTROLS, AND SQUARE D.
- C. MANUAL CONTROLLER: NEMA 1CS2, GENERAL PURPOSE, CLASS A, WITH TOGGLE ACTION AND OVERLOAD ELEMENT.
- D. MAGNETIC CONTROLLER: NEMA 1CS2, CLASS A, FULL VOLTAGE, NON-REVERSING, ACROSS THE LINE, INTEGRAL 120V CONTROL POWER TRANSFORMER, OVERLOAD RELAY AMBIENT-COMPENSATED TYPE; WITH INVERSE-TIME-CURRENT CHARACTERISTICS. PROVIDE HEATERS IN EACH PHASE MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF SPECIFIC MOTOR WITH APPROPRIATE ADJUSTMENT FOR DUTY CYCLE.
- E. FOR OUTDOOR LOCATIONS, PROVIDE NEMA 250, TYPE 3R ENCLOSURES.

26 4313 - TRANSIENT VOLTAGE SUPPRESSION

- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 - 1. ADVANCED PROTECTION TECHNOLOGIES, INC.
 - 2. LIEBERT; A BRAND OF VERTIV.
 - 3. SIEMENS INDUSTRY, INC. ENERGY MANAGEMENT DIVISION.
 - 4. SQUARE D; SCHNEIDER ELECTRIC USA, INC.
 - 5. EATON.
 - 6. LEVITON MANUFACTURING CO., INC.
 - 7. ABB, ELECTRIFICATION PRODUCTS DIVISION.
- B. SERVICE ENTRANCE SUPPRESSORS
 - 1. SURGE PROTECTION DEVICE DESCRIPTION: MODULAR DESIGN WITH FIELD-REPLACEABLE MODULES, SINE-WAVE-TRACKING TYPE WITH THE FOLLOWING FEATURES AND ACCESSORIES:
 - a. FUSES, RATED AT 200-KA INTERRUPTING CAPACITY.
 - b. FABRICATION USING BOLTED COMPRESSION LUGS FOR INTERNAL WIRING.
 - c. REDUNDANT SUPPRESSION CIRCUITS.
 - d. REDUNDANT REPLACEABLE MODULES.
 - e. ARRANGEMENT WITH COPPER BUS BARS AND FOR BOLTED CONNECTIONS TO PHASE BUSES, NEUTRAL BUS, AND GROUND BUS.
 - f. LED INDICATOR LIGHTS FOR POWER AND PROTECTION STATUS.
 - g. AUDIBLE ALARM, WITH SILENCING SWITCH, TO INDICATE WHEN PROTECTION HAS FAILED.
 - h. SURGE-EVENT OPERATIONS COUNTER.
 - 2. PEAK SINGLE-IMPULSE SURGE CURRENT RATING: 240 KA PER PHASE.
 - 3. CONNECTION MEANS: PERMANENTLY WIRED.
 - 4. PROTECTION MODES AND UL 1449 SVR FOR GROUNDED WYE CIRCUITS WITH VOLTAGES OF 208Y/120V, 3-PHASE, 4-WIRE CIRCUITS SHALL NOT EXCEED THE FOLLOWING:
 - a. LINE TO NEUTRAL: 700V.
 - b. LINE TO GROUND: 1200V.
 - c. LINE TO LINE: 1000V.
- C. INSTALL DEVICES AT SERVICE ENTRANCE ON LOAD SIDE, WITH GROUND LEAD BONDED TO SERVICE ENTRANCE GROUND.
- D. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN TRANSIENT VOLTAGE SUPPRESSION DEVICES.

26 5100 - LIGHTING

- A. PROVIDE FIXTURES AS SCHEDULED OR NOTED ON THE DRAWINGS. ALL FIXTURES SHALL BE UL LABELED.
- B. COORDINATE FIXTURE LOCATIONS AND FIXTURE WEIGHTS WITH THE TRADE INSTALLING THE CEILING SYSTEM TO ASSURE ADEQUATE HANGERS ARE INSTALLED TO SUPPORT THE WEIGHT OF THE CEILING PLUS TWICE THE WEIGHT OF EACH FIXTURE. FASTEN SUPPORT CLIPS TO FIXTURES AND TO CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER. FIXTURES OF SIZES LESS THAN CEILING GRID SHALL BE SUPPORTED WITH AT LEAST TWO 3/4" METAL CHANNELS SPANNING AND SECURED TO CEILING TEES.

28 3111 - FIRE ALARM

- A. NONCODED SYSTEM; MULTIPLEXED SIGNAL TRANSMISSION DEDICATED TO FIRE ALARM SERVICE ONLY. COMPLETE SYSTEM SHALL BE PROVIDED WITH ONE YEAR WARRANTY.
- B. COMPLY WITH NFPA 72.
- C. FIRE ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
 - 1. MANUAL STATIONS.
 - 2. SMOKE DETECTORS INCLUDING DUCT MOUNTED SMOKE DETECTORS.
 - 3. AUTOMATIC SPRINKLER SYSTEM WATER FLOW.
 - 4. HOOD SUPPRESSION SYSTEMS.
- D. FIRE ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
 - 1. ALARM NOTIFICATION APPLIANCES SHALL OPERATE CONTINUOUSLY.
 - 2. IDENTIFY ALARM AT THE FACP.
 - 3. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
 - 4. RECORD EVENTS IN THE SYSTEM MEMORY.
- E. SUPERVISORY SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:
 - 1. OPERATION OF A FIRE-PROTECTION SYSTEM VALVE TAMPER (PROVIDED BY F.P.C., WIRED BY E.C.).
- F. PERMIT DRAWINGS:
 - 1. FIRE ALARM DRAWINGS SHALL BE PREPARED BY FIRE ALARM SYSTEM MANUFACTURER'S CERTIFIED FIRE ALARM SYSTEM DESIGNER AND WITH HIS/HER CERTIFICATION NUMBER OR PROFESSIONAL SEAL.
 - 2. SYSTEM RISER DIAGRAM WITH DEVICE ADDRESSES, CONDUIT SIZES, AND CABLE AND WIRE TYPES AND SIZES.
 - 3. WIRING DIAGRAMS: POWER, SIGNAL, AND CONTROL WIRING. INCLUDE DIAGRAMS FOR EQUIPMENT AND FOR SYSTEM WITH ALL TERMINALS AND INTERCONNECTIONS IDENTIFIED. SHOW WIRING COLOR CODE.
 - 4. BATTERIES: SIZE CALCULATIONS.
 - 5. SUBMITTALS TO AUTHORITIES HAVING JURISDICTION: MAKE SUBMITTAL TO AUTHORITIES HAVING JURISDICTION. TO FACILITATE REVIEW, INCLUDE COPIES OF ANNOTATED CONTRACT DRAWINGS AS NEEDED TO DEPICT COMPONENT LOCATIONS. RESUBMIT IF REQUIRED TO MAKE CLARIFICATIONS OR REVISIONS TO OBTAIN APPROVAL. ON RECEIPT OF COMMENTS FROM AUTHORITIES HAVING JURISDICTION, SUBMIT THEM TO ARCHITECT FOR REVIEW.
- G. INSTALLER QUALIFICATIONS: PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.
- H. 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.
- I. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 - 1. NOTIFIER; A GE-HONEYWELL COMPANY.
 - 2. SIEMENS BUILDING TECHNOLOGIES, INC.; A CERBERUS DIVISION.
 - 3. SIMPLEXGRINNELL LP; A TYCO INTERNATIONAL CO.
 - 4. GE FIRE EST.
- J. PHOTORELECTRIC SMOKE DETECTORS:
 - 1. SENSOR: LED OR INFRARED LIGHT SOURCE WITH MATCHING SILICON-CELL RECEIVER.
 - 2. DETECTOR SENSITIVITY: BETWEEN 2.5 AND 3.5 PERCENT/FOOT SMOKE OBSCURATION WHEN TESTED ACCORDING TO UL 268A.
- K. HORNS: ELECTRIC-VIBRATING-POLARIZED TYPE, 24-V DC; WITH PROVISION FOR HOUSING THE OPERATING MECHANISM BEHIND A GRILLE. HORNS SHALL PRODUCE A SOUND-PRESSURE LEVEL OF 90 dBA, MEASURED 10 FEET FROM THE HORN.
- L. VISIBLE ALARM DEVICES: XENON STROBE LIGHTS LISTED UNDER UL 1971, WITH CLEAR OR NOMINAL WHITE POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH-THICK HIGH LETTERS ON THE LENS.
 - 1. RATED LIGHT OUTPUT: CANDELA RATING AS REQUIRED FOR QUANTITY OF DEVICES IN GIVEN AREA. INDICATE RATINGS PER DEVICE ON FLOOR PLANS IN SHOP DRAWING SUBMITTAL.
 - 2. FLASHING SHALL BE IN A TEMPORAL PATTERN, SYNCHRONIZED WITH ALL OTHER UNITS.
- M. REMOTE ANNUNCIATOR: ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF THE FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF THE FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, RESETTING, AND TESTING.
- N. DIGITAL ALARM COMMUNICATOR TRANSMITTER:
 - 1. LISTED AND LABELED ACCORDING TO UL 632.
 - 2. FUNCTIONAL PERFORMANCE: UNIT RECEIVES AN ALARM, SUPERVISORY, OR TROUBLE SIGNAL FROM THE FACP, AND AUTOMATICALLY CAPTURES ONE OR TWO TELEPHONE LINES AND DIALS A PRESET NUMBER FOR A REMOTE CENTRAL STATION. WHEN CONTACT IS MADE WITH THE CENTRAL STATION(S), THE SIGNAL IS TRANSMITTED. THE UNIT SUPERVISES UP TO TWO TELEPHONE LINES. WHERE SUPERVISING 2 LINES, IF SERVICE ON EITHER LINE IS INTERRUPTED FOR LONGER THAN 45 SECONDS, THE UNIT INITIATES A LOCAL TROUBLE SIGNAL AND TRANSMITS A SIGNAL INDICATING LOSS OF TELEPHONE LINE TO THE REMOTE ALARM RECEIVING STATION OVER THE REMAINING LINE. WHEN TELEPHONE SERVICE IS RESTORED, UNIT AUTOMATICALLY REPORTS THAT EVENT TO THE CENTRAL STATION. IF SERVICE IS LOST ON BOTH TELEPHONE LINES, THE LOCAL TROUBLE SIGNAL IS INITIATED.
 - 3. SECONDARY POWER: INTEGRAL RECHARGEABLE BATTERY AND AUTOMATIC CHARGER. BATTERY CAPACITY IS ADEQUATE TO COMPLY WITH NFPA 72 REQUIREMENTS.
- O. DUCT SMOKE DETECTORS: PROVIDED BY THE MECHANICAL CONTRACTOR FOR ALL RTU'S. PROVIDE NECESSARY WIRING AND DEVICES TO INTERFACE WITH DUCT DETECTORS; COORDINATE WITH M.C.
- P. WIRE:
 - 1. WIRE FOR FIRE ALARM SYSTEMS SHALL BE UL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760.
 - 2. SIGNALING LINE CIRCUITS: TWISTED, SHIELDED PAIR, NOT LESS THAN NO. 18 AWG, SIZED AS RECOMMENDED BY SYSTEM MANUFACTURER.
- Q. INSTALL WIRING ACCORDING TO NECA 1 AND TIA/EIA 568-A.
- R. COLOR CODE FIRE ALARM CONDUCTORS DIFFERENTLY FROM THE NORMAL BUILDING WIRING. PAINT FIRE ALARM SYSTEM JUNCTION BOXES AND COVERS RED.
- S. GROUND FACP AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100.
- T. FIRE ALARM CIRCUITS AND EQUIPMENT CONTROL WIRING ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN A DEDICATED RACEWAY SYSTEM. THIS SYSTEM SHALL NOT BE USED FOR ANY OTHER WIRE OR CABLE.
- U. WIRING TO REMOTE ALARM TRANSMITTING DEVICE: 1-INCH CONDUIT BETWEEN THE FACP AND THE TRANSMITTER. INSTALL NUMBER OF CONDUCTORS AND ELECTRICAL SUPERVISION FOR CONNECTING WIRING AS NEEDED TO SUIT MONITORING FUNCTION.
- V. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ADJUST FIELD-ASSEMBLED COMPONENTS AND EQUIPMENT INSTALLATION, INCLUDING CONNECTIONS, AND TO ASSIST IN FIELD TESTING. REPORT RESULTS IN WRITING.
- W. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN THE FIRE ALARM SYSTEM, APPLIANCES AND DEVICES.
- X. PROVIDE PERMANENT RECORDS ACCORDING TO NFPA 72 TO OWNER, ARCHITECT AND AUTHORITIES HAVING JURISDICTION.

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 937.985.3801

Matthew B. Yanny

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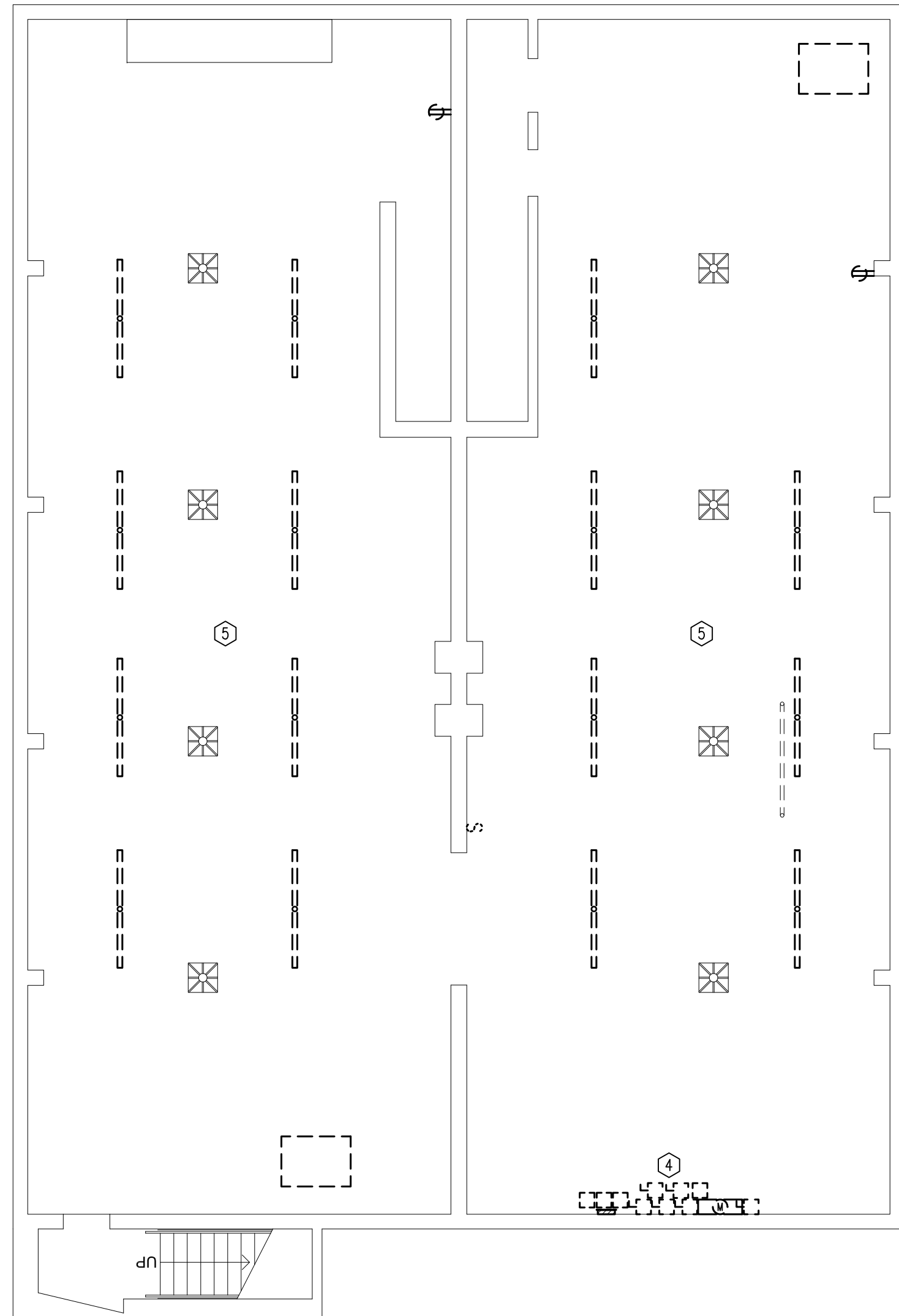
SHEET NAME: SPECIFICATIONS

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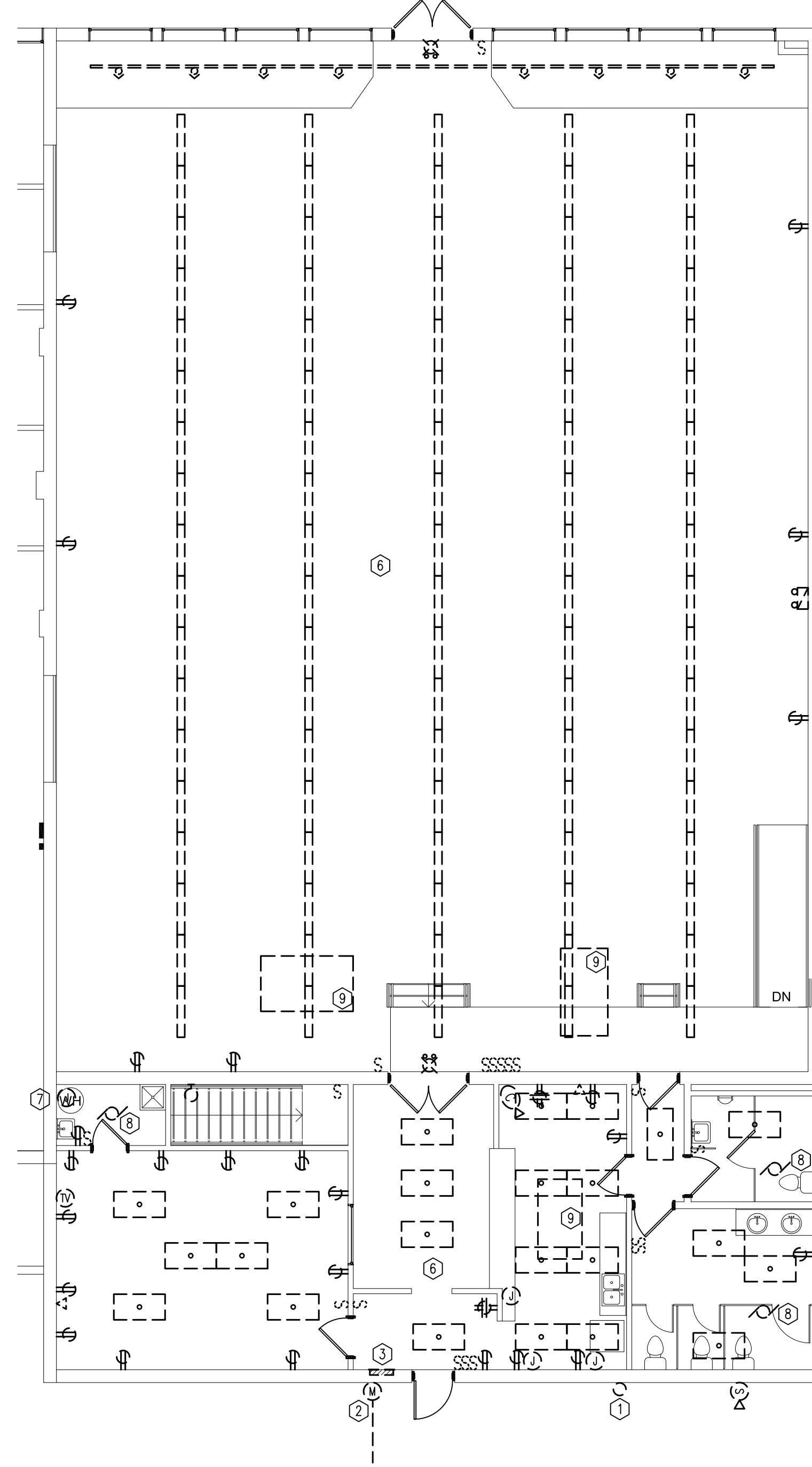
Project #: 20013

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1 BASEMENT
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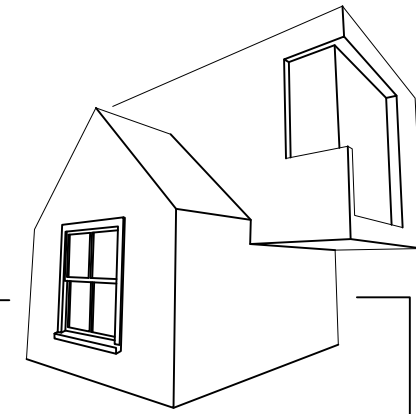
2 FIRST FLOOR
Scale: 1/8" = 1'-0"

GENERAL NOTES

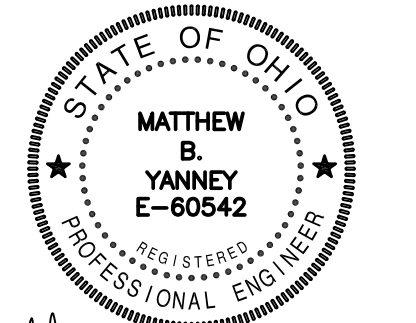
- A. WIRE EXIT SIGNS AND BATTERY OPERATED EMERGENCY LIGHTS AHEAD OF SWITCHING OF LIGHTING CIRCUIT SERVING AREA OF LOCATION OF EXIT SIGN/ EMERGENCY LIGHT. WIRE AHEAD OF LIGHTING CONTROL RELAYS.
- B. GROUND FAULT RECEPTACLES SHALL BE LOCATED SUCH THAT THEY ARE READILY ACCESSIBLE. WHERE RECEPTACLES ARE NOT READY ACCESSIBLE, GROUND FAULT CIRCUIT BREAKERS SHALL BE UTILIZED.
- C. FOR ALL NEW CIRCUITS THAT REQUIRE NEUTRALS, NEUTRALS SHALL BE DEDICATED (NO SHARED NEUTRALS).
- D. CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT WITH OWNER PRIOR TO ANY ROUGH-IN.
- E. CONTRACTOR SHALL INCLUDE HOOD MANUFACTURER ELECTRICAL SCOPE OF WORK PER HOOD MANUFACTURER DRAWING SET. PROVIDE ALL REQUIRED FIELD WIRING AS INDICATED ON HOOD MANUFACTURER DRAWINGS FOR FULLY FUNCTIONAL HOOD SYSTEMS INTEGRATED WITH EXHAUST FANS, MAKE-UP AIR UNIT, AND SHUTDOWN CONTROL OF GAS AND ELECTRIC TO EQUIPMENT BELOW TYPE 1 HOODS.

DEMOLITION NOTES

- 1. REMOVE ABANDONED WEATHERHEAD AND CONDUIT.
- 2. MAINTAIN EXISTING U/G SERVICE CONDUCTORS, METER, AND 200A 120/240V 3PH DELTA HIGH LEG SERVICE PANEL FOR USE AS TEMPORARY SERVICE UNTIL NEW SERVICE IS INSTALLED AND ACTIVATED; COORDINATE WITH THE POWER COMPANY.
- 3. AFTER NEW SERVICE IS OPERATIONAL, REMOVE EXISTING 200A PANEL AND ALL ASSOCIATED BRANCH CIRCUITRY, DEVICES, LIGHTING FIXTURES, ETC.
- 4. REMOVE ABANDONED C/T CABINET, METER BASE, DISCONNECT SWITCHES, FUSED PANEL, TIMER SWITCHES, SPLICE BOXES, DEVICES, AND ALL ASSOCIATED WIRING AND CONDUIT.
- 5. BASEMENT SHALL BE GUTTED OF ALL ACTIVE AND ABANDONED CONDUIT, WIRING, DEVICES, LIGHTING FIXTURES, AND LOW VOLTAGE WIRING. ALL SUCH WORK IS NOT COMPLETELY SHOWN, BUT IS REQUIRED TO BE REMOVED.
- 6. FIRST FLOOR SHALL BE GUTTED OF ALL ACTIVE AND ABANDONED CONDUIT, WIRING, DEVICES, LIGHTING FIXTURES, AND LOW VOLTAGE WIRING. ALL SUCH WORK IS NOT COMPLETELY SHOWN, BUT IS REQUIRED TO BE REMOVED.
- 7. REMOVE CIRCUITRY TO ELECTRIC WATER HEATER.
- 8. REMOVE CIRCUITRY TO FAN OR COMBINATION FAN/LIGHT.
- 9. REMOVE CIRCUITRY TO ROOF TOP UNIT AND ANY ASSOCIATED DEVICES/ WIRING.



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WEST SOCIAL FOOD HALL
1100 W. THIRD STREET, DAYTON, OH 45402
WRIGHT-DUNBAR INC.
1106 W. Third Street, Dayton, OH 45402

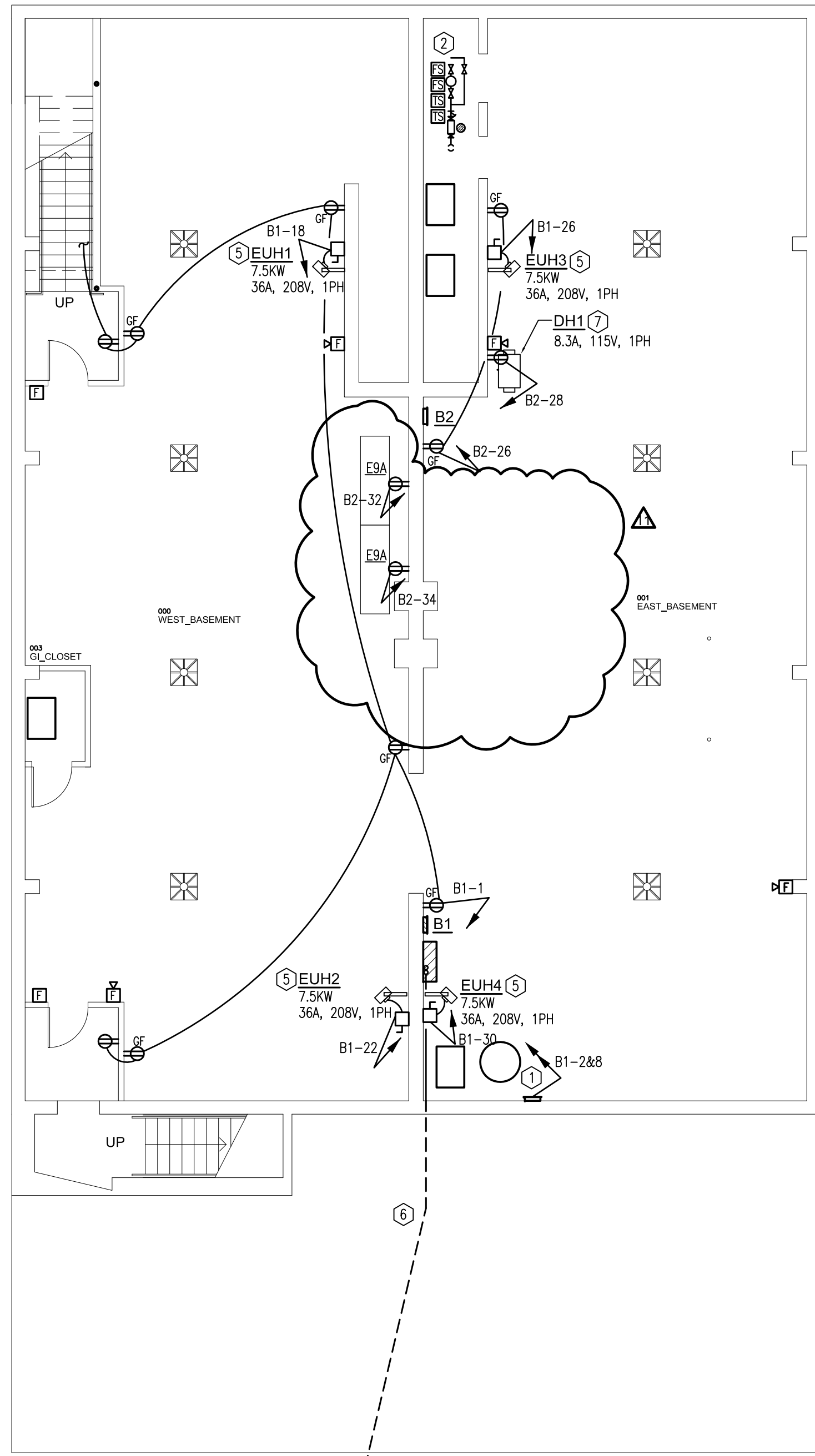
REVISION	DATE
PERMIT	08/21/2020
REVISION /A/	10/13/2020
REVISION /4/	06/22/2021
REVISION /6/	09/14/2021

PROJECT No.: 2020-09

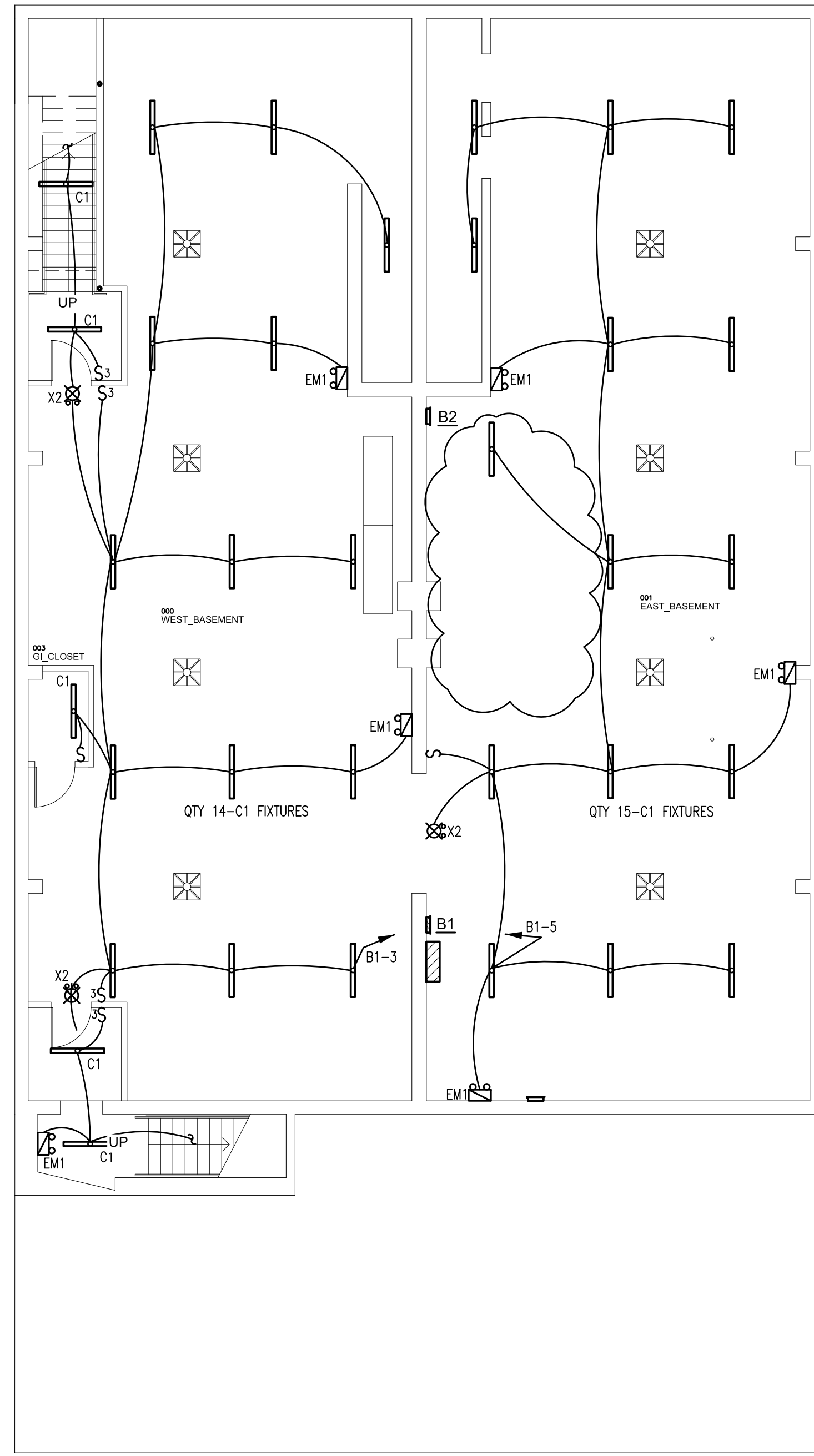
SHEET NAME: BASEMENT AND FIRST FLOOR PLANS - DEMOLITION

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Project #: 20013

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



1 BASEMENT POWER
Scale: 1/8" = 1'-0"



1 BASEMENT LIGHTING
Scale: 1/8" = 1'-0"

GENERAL NOTES

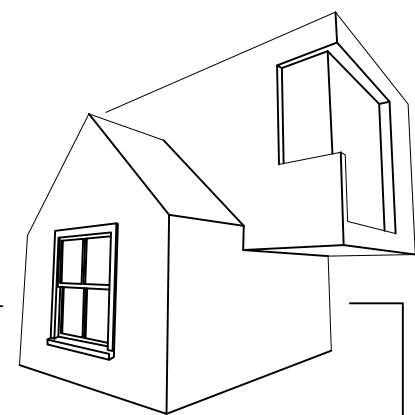
- A. WIRE EXIT SIGNS AND BATTERY OPERATED EMERGENCY LIGHTS AHEAD OF SWITCHING OF LIGHTING CIRCUIT SERVING AREA OF LOCATION OF EXIT SIGN/ EMERGENCY LIGHT. WIRE AHEAD OF LIGHTING CONTROL RELAYS.
- B. GROUND FAULT RECEPTACLES SHALL BE LOCATED SUCH THAT THEY ARE READILY ACCESSIBLE. WHERE RECEPTACLES ARE NOT READY ACCESSIBLE, GROUND FAULT CIRCUIT BREAKERS SHALL BE UTILIZED.
- C. FOR ALL NEW CIRCUITS THAT REQUIRE NEUTRALS, NEUTRALS SHALL BE DEDICATED (NO SHARED NEUTRALS).
- D. CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT WITH OWNER PRIOR TO ANY ROUGH-IN.
- E. CONTRACTOR SHALL INCLUDE HOOD MANUFACTURER ELECTRICAL SCOPE OF WORK PER HOOD MANUFACTURER DRAWING SET. PROVIDE ALL REQUIRED FIELD WIRING AS INDICATED ON HOOD MANUFACTURER DRAWINGS FOR FULLY FUNCTIONAL HOOD SYSTEMS INTEGRATED WITH EXHAUST FANS, MAKE-UP AIR UNIT, AND SHUTDOWN CONTROL OF GAS AND ELECTRIC TO EQUIPMENT BELOW TYPE 1 HOODS.

CONSTRUCTION NOTES

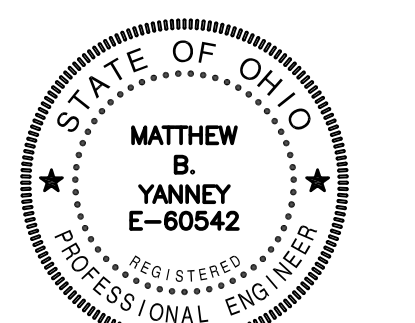
- 1. PROVIDE CONNECTIONS TO DUAL SEWAGE EJECTOR PUMP CONTROL PANEL TO SERVE 208V-3PH, 2HP PUMPS. TWO CIRCUITS WITH EACH (3-#12, 1-#12 GROUND, .5°C.) BOTH PUMPS CAPABLE OF RUNNING AT SAME TIME.
- 2. PROVIDE FIRE ALARM CONNECTION OF FLOW AND TAMPER SWITCHES AS COORDINATED WITH FIRE SUPPRESSION SYSTEM CONTRACTOR.
- 3. NOTE DELETED.
- 4. NOTE DELETED.
- 5. PROVIDE DISCONNECT AND CONNECTION TO UNIT HEATER, 2-#6, 1-#10 GROUND, .75°C.
- 6. REFER TO NOTE 4, SHEET E-203.
- 7. DEHUMIDIFIER WILL PLUG IN TO ADJACENT RECEPTACLE.

PANEL - B1						
SPEC. SECTION - 262416	SCR - 10K SERIES RATED	LOCATION - BASEMENT				
VOLTAGE - 208Y/120V-3PH-4W	MAINS - 150A MLO	MOUNTING - SURFACE				
CONN. KVA - 41.3	DEMAND KVA - 40.7	DEMAND AMPS - 113				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD
BSMT RECEPT W	1.6	20-1	1 2	20-3	3.3	SEWAGE EJECTOR
W BSMT LIGHTING	.6		3 4			
E BSMT LIGHTING	.5		5 6			
SPARE			7 8	20-3	3.3	SEWAGE EJECTOR
			9 10			
			11 12			
			13 14	20-2	2.0	EMH2
			15 16			
SPACE			17 18	50-2	7.5	EUH1
			19 20			
			21 22	50-2	7.5	EUH2
			23 24			
			25 26	50-2	7.5	EUH3
			27 28			
			29 30	50-2	7.5	EUH4
			31 32			
			33 34			SPACE
			35 36			
			37 38			
			39 40			
			41 42			

ABBREVIATIONS:
MLO—MAIN LUGS ONLY, DSL—DOUBLE SET OF LUGS, MB—MAIN BREAKER,
GFA—CLASS A GROUND FAULT BREAKER, GFB—CLASS B GROUND FAULT BREAKER, LC—LOCKING CLIP,
ST—SHUNT TRIP BREAKER, RLY—RELAY CONTROLLED CIRCUIT, AFCI—ARC-FAULT CIRCUIT INTERRUPTER



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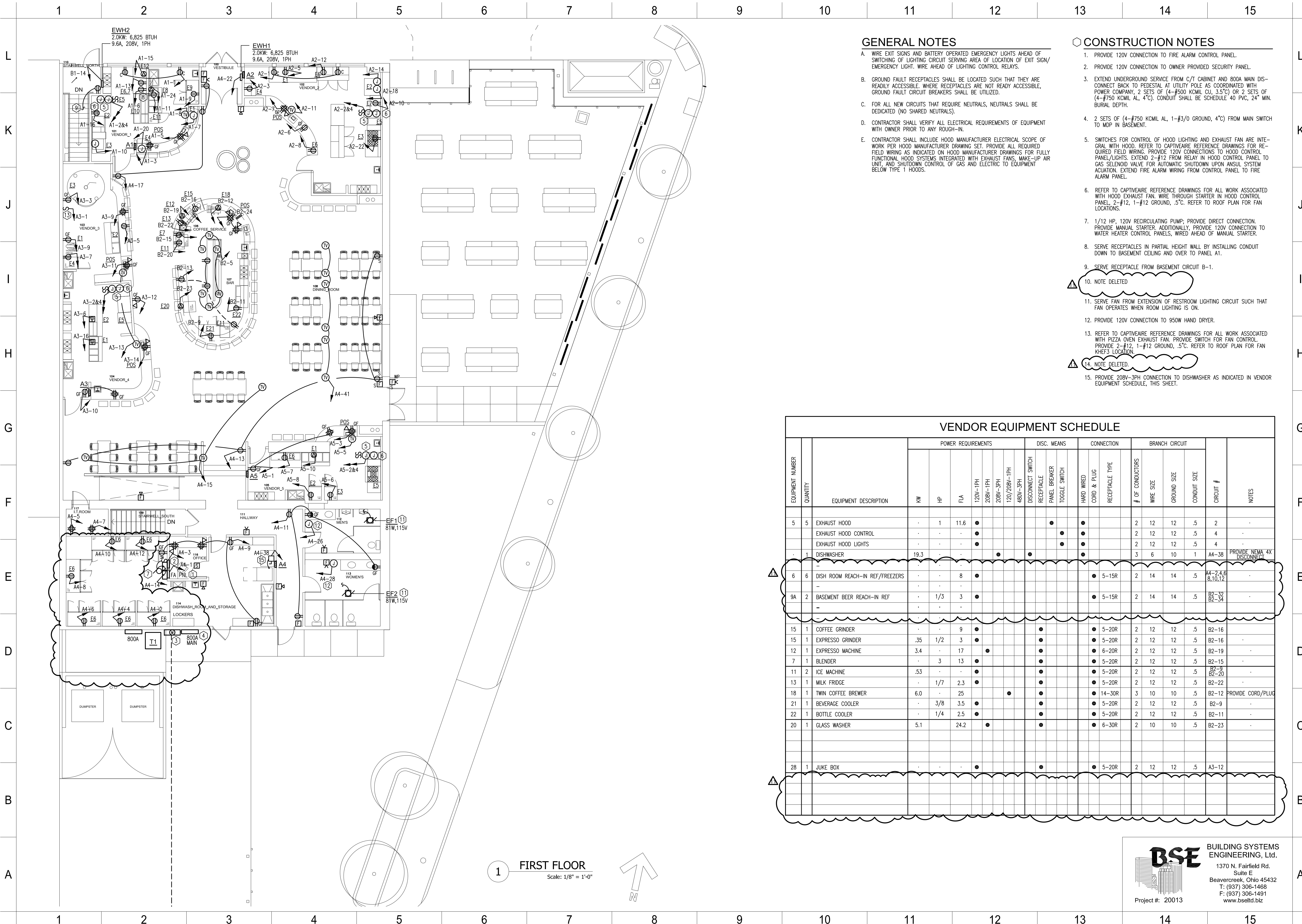
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REVISION A	10/25/2021
REVISION A	11/12/2021
REVISION A	12/17/2021

PROJECT No.:
2020-09

SHEET NAME:
BASEMENT PLAN - NEW WORK

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Project #: 20013



1 FIRST FLOOR
Scale: 1/8" = 1'-0"

GENERAL NOTES

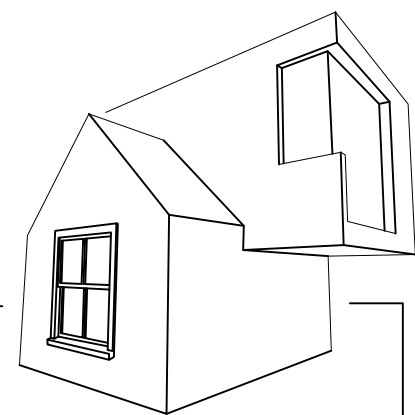
- A. WIRE EXIT SIGNS AND BATTERY OPERATED EMERGENCY LIGHTS AHEAD OF SWITCHING OF LIGHTING CIRCUIT SERVING AREA OF LOCATION OF EXIT SIGN/ EMERGENCY LIGHT. WIRE AHEAD OF LIGHTING CONTROL RELAYS.
- B. GROUND FAULT RECEPTACLES SHALL BE LOCATED SUCH THAT THEY ARE READILY ACCESSIBLE. WHERE RECEPTACLES ARE NOT READY ACCESSIBLE, GROUND FAULT CIRCUIT BREAKERS SHALL BE UTILIZED.
- C. FOR ALL NEW CIRCUITS THAT REQUIRE NEUTRALS, NEUTRALS SHALL BE DEDICATED (NO SHARED NEUTRALS).
- D. CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT WITH OWNER PRIOR TO ANY ROUGH-IN.
- E. CONTRACTOR SHALL INCLUDE HOOD MANUFACTURER ELECTRICAL SCOPE OF WORK PER HOOD MANUFACTURER DRAWING SET. PROVIDE ALL REQUIRED FIELD WIRING AS INDICATED ON HOOD MANUFACTURER DRAWINGS FOR FULLY FUNCTIONAL HOOD SYSTEMS INTEGRATED WITH EXHAUST FANS, MAKE-UP AIR UNIT, AND SHUTDOWN CONTROL OF GAS AND ELECTRIC TO EQUIPMENT BELOW TYPE 1 HOODS.

CONSTRUCTION NOTES

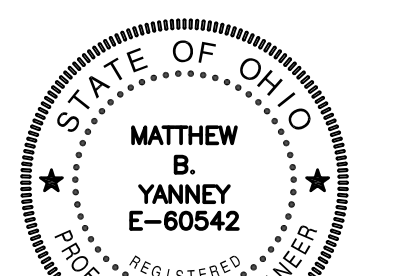
- 1. PROVIDE 120V CONNECTION TO FIRE ALARM CONTROL PANEL.
- 2. PROVIDE 120V CONNECTION TO OWNER PROVIDED SECURITY PANEL.
- 3. EXTEND UNDERGROUND SERVICE FROM C/T CABINET AND 800A MAIN DISCONNECT BACK TO PEDESTAL AT UTILITY POLE AS COORDINATED WITH POWER COMPANY. 2 SETS OF (4-#500 KCMIL CU, 3.5°C) OR 2 SETS OF (4-#750 KCMIL AL, 4°C). CONDUIT SHALL BE SCHEDULE 40 PVC, 24" MIN. BURIAL DEPTH.
- 4. 2 SETS OF (4-#750 KCMIL AL, 1-#3/0 GROUND, 4°C) FROM MAIN SWITCH TO MDP IN BASEMENT.
- 5. SWITCHES FOR CONTROL OF HOOD LIGHTING AND EXHAUST FAN ARE INTEGRAL WITH HOOD. REFER TO CAPTIVEAIRE REFERENCE DRAWINGS FOR REQUIRED FIELD WIRING. PROVIDE 120V CONNECTIONS TO HOOD CONTROL PANEL/LIGHTS. EXTEND 2-#12 FROM RELAY IN HOOD CONTROL PANEL TO GAS SELENOID VALVE FOR AUTOMATIC SHUTDOWN UPON ANSUL SYSTEM ACTUATION. EXTEND FIRE ALARM WIRING FROM CONTROL PANEL TO FIRE ALARM PANEL.
- 6. REFER TO CAPTIVEAIRE REFERENCE DRAWINGS FOR ALL WORK ASSOCIATED WITH HOOD EXHAUST FAN. WIRE THROUGH STARTER IN HOOD CONTROL PANEL. 2-#12, 1-#12 GROUND, .5°C. REFER TO ROOF PLAN FOR FAN LOCATIONS.
- 7. 1/12 HP, 120V RECIRCULATING PUMP; PROVIDE DIRECT CONNECTION. PROVIDE MANUAL STARTER. ADDITIONALLY, PROVIDE 120V CONNECTION TO WATER HEATER CONTROL PANELS, WIRED AHEAD OF MANUAL STARTER.
- 8. SERVE RECEPTACLES IN PARTIAL HEIGHT WALL BY INSTALLING CONDUIT DOWN TO BASEMENT CEILING AND OVER TO PANEL A1.
- 9. SERVE RECEPTACLE FROM BASEMENT CIRCUIT B-1.
- 10. NOTE DELETED
- 11. SERVE FAN FROM EXTENSION OF RESTROOM LIGHTING CIRCUIT SUCH THAT FAN OPERATES WHEN ROOM LIGHTING IS ON.
- 12. PROVIDE 120V CONNECTION TO 950W HAND DRYER.
- 13. REFER TO CAPTIVEAIRE REFERENCE DRAWINGS FOR ALL WORK ASSOCIATED WITH PIZZA OVEN EXHAUST FAN. PROVIDE SWITCH FOR FAN CONTROL. PROVIDE 2-#12, 1-#12 GROUND, .5°C. REFER TO ROOF PLAN FOR FAN KHEE'S LOCATION.
- 14. NOTE DELETED
- 15. PROVIDE 208V-3PH CONNECTION TO DISHWASHER AS INDICATED IN VENDOR EQUIPMENT SCHEDULE, THIS SHEET.

VENDOR EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	QUANTITY	EQUIPMENT DESCRIPTION	POWER REQUIREMENTS				DISC. MEANS			CONNECTION		BRANCH CIRCUIT			NOTES			
			KW	HP	FLA		DISCONNECT SWITCH	PANEL BREAKER	TOGGLE SWITCH	HARD WIRED	CORD & PLUG	RECEPTACLE TYPE	# OF CONDUCTORS	WIRE SIZE		GROUND SIZE	CONDUIT SIZE	
5	5	EXHAUST HOOD	-	1	11.6	•			•	•		2	12	12	.5	2		
		EXHAUST HOOD CONTROL	-	-	-	•			•	•		2	12	12	.5	4		
		EXHAUST HOOD LIGHTS	-	-	-	•			•	•		2	12	12	.5	4		
1	1	DISHWASHER	19.3			•			•	•		3	6	10	1	A4-38	PROVIDE NEMA 4X DISCONNECT	
6	6	DISH ROOM REACH-IN REF/FREEZERS	-	-	8	•			•	•		5	15R	2	14	14	.5	A4-2,4,6,8,10,12
9A	2	BASEMENT BEER REACH-IN REF	-	1/3	3	•			•	•		5	15R	2	14	14	.5	B2-32, B2-34
15	1	COFFEE GRINDER	-	-	9	•			•	•		5	20R	2	12	12	.5	B2-16
15	1	EXPRESSO GRINDER	.35	1/2	3	•			•	•		5	20R	2	12	12	.5	B2-16
12	1	EXPRESSO MACHINE	3.4	-	17	•			•	•		6	20R	2	12	12	.5	B2-19
7	1	BLENDER	-	3	13	•			•	•		5	20R	2	12	12	.5	B2-15
11	2	ICE MACHINE	.53	-	-	•			•	•		5	20R	2	12	12	.5	B2-9, B2-20
13	1	MILK FRIDGE	-	1/7	2.3	•			•	•		5	20R	2	12	12	.5	B2-22
18	1	TWIN COFFEE BREWER	6.0	-	25	•			•	•		14	30R	3	10	10	.5	B2-12
21	1	BEVERAGE COOLER	-	3/8	3.5	•			•	•		5	20R	2	12	12	.5	B2-9
22	1	BOTTLE COOLER	-	1/4	2.5	•			•	•		5	20R	2	12	12	.5	B2-11
20	1	GLASS WASHER	5.1	-	24.2	•			•	•		6	30R	2	10	10	.5	B2-23
28	1	JUKE BOX	-	-	-	•			•	•		5	20R	2	12	12	.5	A3-12



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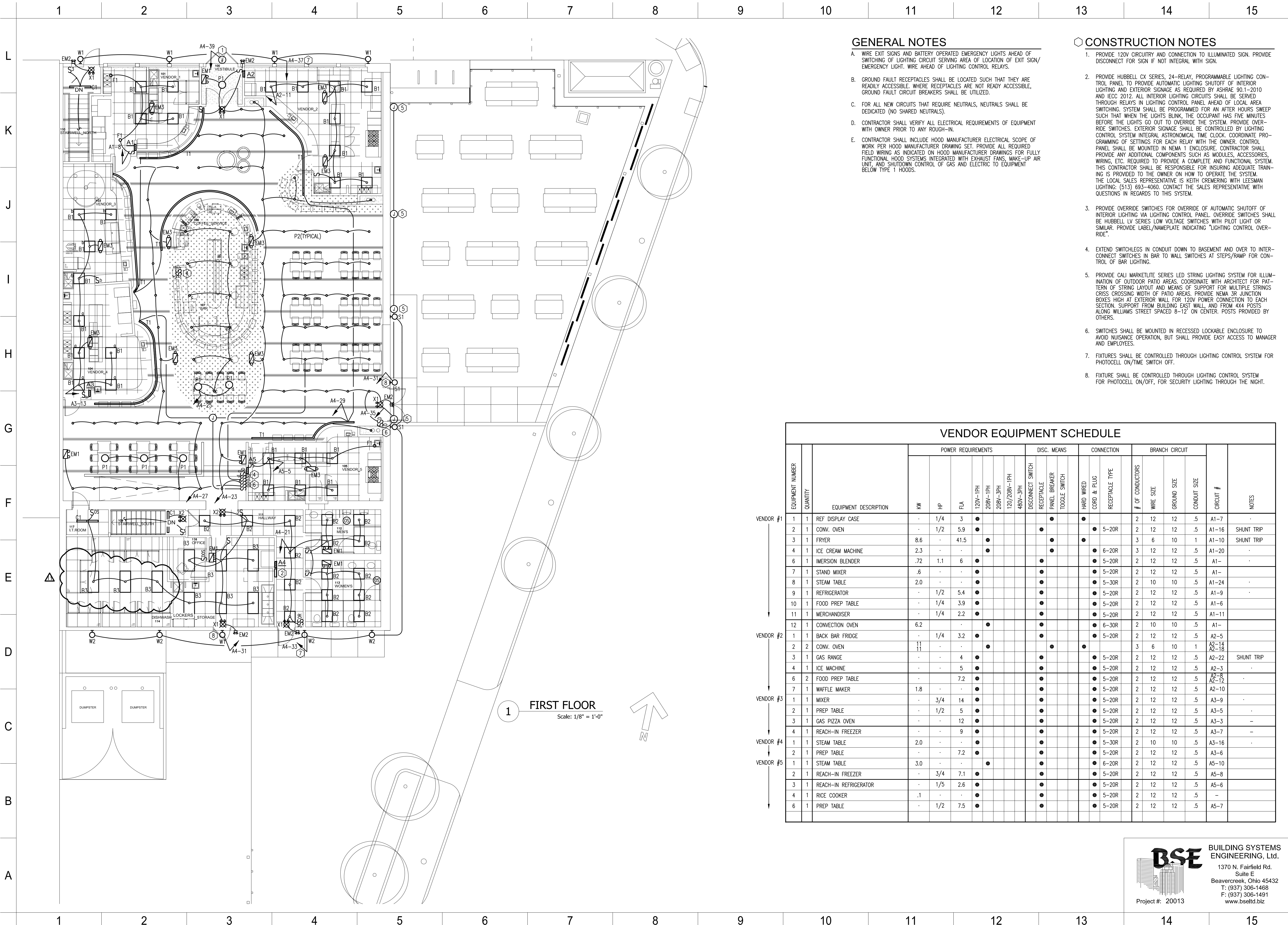
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REVISION F	10/25/2021
REVISION G	11/12/2021
REVISION H	12/17/2021

PROJECT No.:
2020-09

SHEET NAME:
FIRST FLOOR PLAN - POWER

BSE BUILDING SYSTEMS ENGINEERING, Ltd.
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Project #: 20013



1 FIRST FLOOR
Scale: 1/8" = 1'-0"

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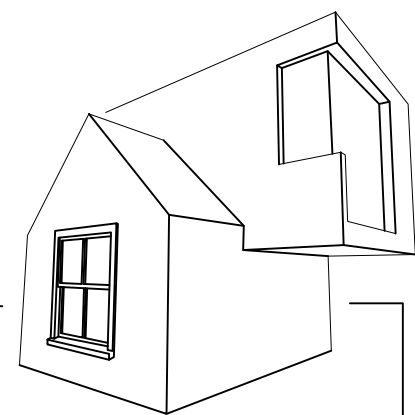
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- C. FOR ALL NEW CIRCUITS THAT REQUIRE NEUTRALS, NEUTRALS SHALL BE DEDICATED (NO SHARED NEUTRALS).
- D. CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT WITH OWNER PRIOR TO ANY ROUGH-IN.
- E. CONTRACTOR SHALL INCLUDE HOOD MANUFACTURER ELECTRICAL SCOPE OF WORK PER HOOD MANUFACTURER DRAWING SET. PROVIDE ALL REQUIRED FIELD WIRING AS INDICATED ON HOOD MANUFACTURER DRAWINGS FOR FULLY FUNCTIONAL HOOD SYSTEMS INTEGRATED WITH EXHAUST FANS, MAKE-UP AIR UNIT, AND SHUTDOWN CONTROL OF GAS AND ELECTRIC TO EQUIPMENT BELOW TYPE 1 HOODS.

CONSTRUCTION NOTES

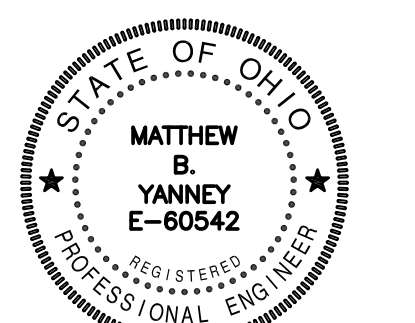
- 1. PROVIDE 120V CIRCUITRY AND CONNECTION TO ILLUMINATING SIGN. PROVIDE DISCONNECT FOR SIGN IF NOT INTEGRAL WITH SIGN.
- 2. PROVIDE HUBBELL CX SERIES, 24-RELAY, PROGRAMMABLE LIGHTING CONTROL PANEL TO PROVIDE AUTOMATIC LIGHTING SHUTOFF OF INTERIOR LIGHTING AND EXTERIOR SIGNAGE AS REQUIRED BY ASHRAE 90.1-2010 AND IECC 2012. ALL INTERIOR LIGHTING CIRCUITS SHALL BE SERVED THROUGH RELAYS IN LIGHTING CONTROL PANEL AHEAD OF LOCAL AREA SWITCHING. SYSTEM SHALL BE PROGRAMMED FOR AN AFTER HOURS SWEEP SUCH THAT WHEN THE LIGHTS BLINK, THE OCCUPANT HAS FIVE MINUTES BEFORE THE LIGHTS GO OUT TO OVERRIDE THE SYSTEM. PROVIDE OVERRIDE SWITCHES. EXTERIOR SIGNAGE SHALL BE CONTROLLED BY LIGHTING CONTROL SYSTEM INTEGRAL ASTRONOMICAL TIME CLOCK. COORDINATE PROGRAMMING OF SETTINGS FOR EACH RELAY WITH THE OWNER. CONTROL PANEL SHALL BE MOUNTED IN NEMA 1 ENCLOSURE. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL COMPONENTS SUCH AS MODULES, ACCESSORIES, WIRING, ETC. REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING ADEQUATE TRAINING IS PROVIDED TO THE OWNER ON HOW TO OPERATE THE SYSTEM. THE LOCAL SALES REPRESENTATIVE IS KEITH CREMERING WITH LEESMAN LIGHTING. (513) 693-4060. CONTACT THE SALES REPRESENTATIVE WITH QUESTIONS IN REGARDS TO THIS SYSTEM.
- 3. PROVIDE OVERRIDE SWITCHES FOR OVERRIDE OF AUTOMATIC SHUTOFF OF INTERIOR LIGHTING VIA LIGHTING CONTROL PANEL. OVERRIDE SWITCHES SHALL BE HUBBELL LV SERIES LOW VOLTAGE SWITCHES WITH PILOT LIGHT OR SIMILAR. PROVIDE LABEL/NAMEPLATE INDICATING "LIGHTING CONTROL OVERRIDE".
- 4. EXTEND SWITCHLEGS IN CONDUIT DOWN TO BASEMENT AND OVER TO INTERCONNECT SWITCHES IN BAR TO WALL SWITCHES AT STEPS/RAMP FOR CONTROL OF BAR LIGHTING.
- 5. PROVIDE CALL MARKETLITE SERIES LED STRING LIGHTING SYSTEM FOR ILLUMINATION OF OUTDOOR PATIO AREAS. COORDINATE WITH ARCHITECT FOR PATTERN OF STRING LAYOUT AND MEANS OF SUPPORT FOR MULTIPLE STRINGS CRISS CROSSING WIDTH OF PATIO AREAS. PROVIDE NEMA 3R JUNCTION BOXES HIGH AT EXTERIOR WALL FOR 120V POWER CONNECTION TO EACH SECTION. SUPPORT FROM BUILDING EAST WALL AND FROM 4x4 POSTS ALONG WILLIAMS STREET SPACED 8'-12" ON CENTER. POSTS PROVIDED BY OTHERS.
- 6. SWITCHES SHALL BE MOUNTED IN RECESSED LOCKABLE ENCLOSURE TO AVOID NUISANCE OPERATION, BUT SHALL PROVIDE EASY ACCESS TO MANAGER AND EMPLOYEES.
- 7. FIXTURES SHALL BE CONTROLLED THROUGH LIGHTING CONTROL SYSTEM FOR PHOTOCELL ON/TIME SWITCH OFF.
- 8. FIXTURE SHALL BE CONTROLLED THROUGH LIGHTING CONTROL SYSTEM FOR PHOTOCELL ON/OFF, FOR SECURITY LIGHTING THROUGH THE NIGHT.

VENDOR EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	QUANTITY	EQUIPMENT DESCRIPTION	POWER REQUIREMENTS						DISC. MEANS			CONNECTION		BRANCH CIRCUIT			NOTES				
			KW	HP	FLA	120V-1PH	208V-3PH	120/208V-1PH	480V-3PH	DISCONNECT SWITCH	PANEL BREAKER	TOGGLE SWITCH	HARD WIRED	CORD & PLUG	RECEPTACLE TYPE	# OF CONDUCTORS		WIRE SIZE	GROUND SIZE	CONDUIT SIZE	CIRCUIT #
VENDOR #1	1	REF DISPLAY CASE	-	1/4	3	•								•	5-20R	2	12	12	.5	A1-7	-
	2	CONV. OVEN	-	1/2	5.9	•								•	5-20R	2	12	12	.5	A1-16	SHUNT TRIP
	3	FRYER	8.6	-	41.5	•								•	6-20R	3	6	10	1	A1-10	SHUNT TRIP
	4	ICE CREAM MACHINE	2.3	-	-	•								•	5-20R	2	12	12	.5	A1-20	-
	6	IMERSION BLENDER	.72	1.1	6	•								•	5-20R	2	12	12	.5	A1-	-
	7	STAND MIXER	.6	-	-	•								•	5-20R	2	12	12	.5	A1-	-
	8	STEAM TABLE	2.0	-	-	•								•	5-30R	2	10	10	.5	A1-24	-
	9	REFRIGERATOR	-	1/2	5.4	•								•	5-20R	2	12	12	.5	A1-9	-
	10	FOOD PREP TABLE	-	1/4	3.9	•								•	5-20R	2	12	12	.5	A1-6	-
	11	MERCHANDISER	-	1/4	2.2	•								•	5-20R	2	12	12	.5	A1-11	-
	12	CONVECTION OVEN	6.2	-	-	•								•	6-30R	2	10	10	.5	A1-	-
VENDOR #2	1	BACK BAR FRIDGE	-	1/4	3.2	•								•	5-20R	2	12	12	.5	A2-5	-
	2	CONV. OVEN	11	-	-	•								•	5-20R	3	6	10	1	A2-14	-
	3	GAS RANGE	-	-	4	•								•	5-20R	2	12	12	.5	A2-22	SHUNT TRIP
	4	ICE MACHINE	-	-	5	•								•	5-20R	2	12	12	.5	A2-3	-
	6	2 FOOD PREP TABLE	-	-	7.2	•								•	5-20R	2	12	12	.5	A2-8	-
	7	1 WAFFLE MAKER	1.8	-	-	•								•	5-20R	2	12	12	.5	A2-10	-
VENDOR #3	1	MIXER	-	3/4	14	•								•	5-20R	2	12	12	.5	A3-9	-
	2	1 PREP TABLE	-	1/2	5	•								•	5-20R	2	12	12	.5	A3-5	-
	3	1 GAS PIZZA OVEN	-	-	12	•								•	5-20R	2	12	12	.5	A3-3	-
	4	1 REACH-IN FREEZER	-	-	9	•								•	5-20R	2	12	12	.5	A3-7	-
VENDOR #4	1	1 STEAM TABLE	2.0	-	-	•								•	5-30R	2	10	10	.5	A3-16	-
	2	1 PREP TABLE	-	-	7.2	•								•	5-20R	2	12	12	.5	A3-6	-
VENDOR #5	1	1 STEAM TABLE	3.0	-	-	•								•	6-20R	2	12	12	.5	A5-10	-
	2	1 REACH-IN FREEZER	-	3/4	7.1	•								•	5-20R	2	12	12	.5	A5-8	-
	3	1 REACH-IN REFRIGERATOR	-	1/5	2.6	•								•	5-20R	2	12	12	.5	A5-6	-
	4	1 RICE COOKER	.1	-	-	•								•	5-20R	2	12	12	.5	-	-
	6	1 PREP TABLE	-	1/2	7.5	•								•	5-20R	2	12	12	.5	A5-7	-



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REVISION	DATE
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REVISION A	10/13/2020
REVISION B	06/22/2021
REVISION C	09/14/2021
REVISION D	09/28/2021
REVISION E	10/13/2021
REVISION F	10/25/2021
REVISION G	11/12/2021
REVISION H	12/17/2021

PROJECT NO.: 2020-09

SHEET NAME:
FIRST FLOOR PLAN - LIGHTING

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Project #: 20013

PANEL - B2 Δ									
SPEC. SECTION - 262416		SCR - 10K SERIES RATED			LOCATION - BASEMENT				
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 125A MB			MOUNTING - SURFACE				
CONN. KVA - 25.5		DEMAND KVA - 22.4			DEMAND AMPS - 62				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD			
SPARE	.	40-2 GFIA	1 2	30-2	.	SPARE			
			3 4						
TV/MENU	1.8	20-1 GFIA	5 6	15-1		SPARE			
SPARE	.	15-1 GFIA	7 8	50-2 GFIA	.	SPARE			
21,11 COOLER, ICE	1.0	15-1 GFIA	9 10						
22 BOTTLE COOLER	.4	15-1 GFIA	11 12	30-2 GFIA	6.0	COFFEE BREWER 18			
CONV RECEPT	.8	20-1 GFIA	13 14						
7 BLENDER	1.6	20-1 GFIA	15 16	20-1 GFIA	1.5	EXPRESSO GRINDERS 15			
SPARE	.	20-1 GFIA	17 18	20-1 GFIA	.	SPARE			
12 EXPRESSO MACHINE	3.4	20-2 GFIA	19 20	15-1 GFIA	.6	ICE MACHINE 11			
			21 22	20-1 GFIA	.3	MILK FRIDGE 13			
20 GLASS WASHER	5.1	30-2 GFIA	23 24	20-1	.8	POS			
			25 26	20-1	.4	BSMT RECEPT			
SPACE			27 28	20-1	1.0	DH1			
			29 30	20-1	.	SPARE			
			31 32	15-1 GFIA	.4	BEER REACH-IN			
			33 34	15-1 GFIA	.4	BEER REACH-IN			
			35 36			SPACE			
			37 38						
			39 40						
			41 42						

PANEL - A4 Δ									
SPEC. SECTION - 262416		SCR - 10K SERIES RATED			LOCATION - DISHWASHING				
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 225A MLO			MOUNTING - RECESSED				
CONN. KVA - 55.4		DEMAND KVA - 52.7			DEMAND AMPS - 146				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD			
FIRE ALARM PANEL	1.0	20-1 LC	1 2	15-1	1.0	REACH-IN REF/FRE			
SECURITY PANEL	1.0	20-1 LC	3 4	15-1	1.0	REACH-IN REF/FRE			
SERVERS	1.0	20-1	5 6	15-1	1.0	REACH-IN REF/FRE			
SERVERS	1.0		7 8	15-1	1.0	REACH-IN REF/FRE			
OFFICE, DW RECEPT	1.4		9 10	15-1	1.0	REACH-IN REF/FRE			
RR, HALL RECEPT	.8		11 12	15-1	1.0	REACH-IN REF/FRE			
DINING RECEPT S/W	.8		13 14	20-1	.4	H2O HTR/RECIRC PUMP			
TV'S	.9		15 16	30-3	8.1	RTU3			
DINING RECEPT N	.8		17 18						
ROOF TOP RECEPT	1.2		19 20						
LIGHTING DW, RR, HALL	.9		21 22	20-2	2.0	EW1			
LIGHTING DINING CTR, E	1.0		23 24						
LIGHTING BAR	.3		25 26	20-1	.95	HAND DRYER			
LIGHTING DINING W	.5		27 28	20-1	.95	HAND DRYER			
LIGHTING VENDOR LED	.8		29 30	20-2		SPARE			
EXTERIOR SECURITY LTG	.2		31 32						
EXTERIOR WALL SCONCES	.2		33 34	15-2		SPARE			
EXTERIOR STRING LTG	1.0		35 36						
NORTH EXTERIOR LIGHTS	.1		37 38	60-3	19.3	DISHWASHER			
EXTERIOR SIGN LTG	1.0		39 40						
TV'S	1.8		41 42						

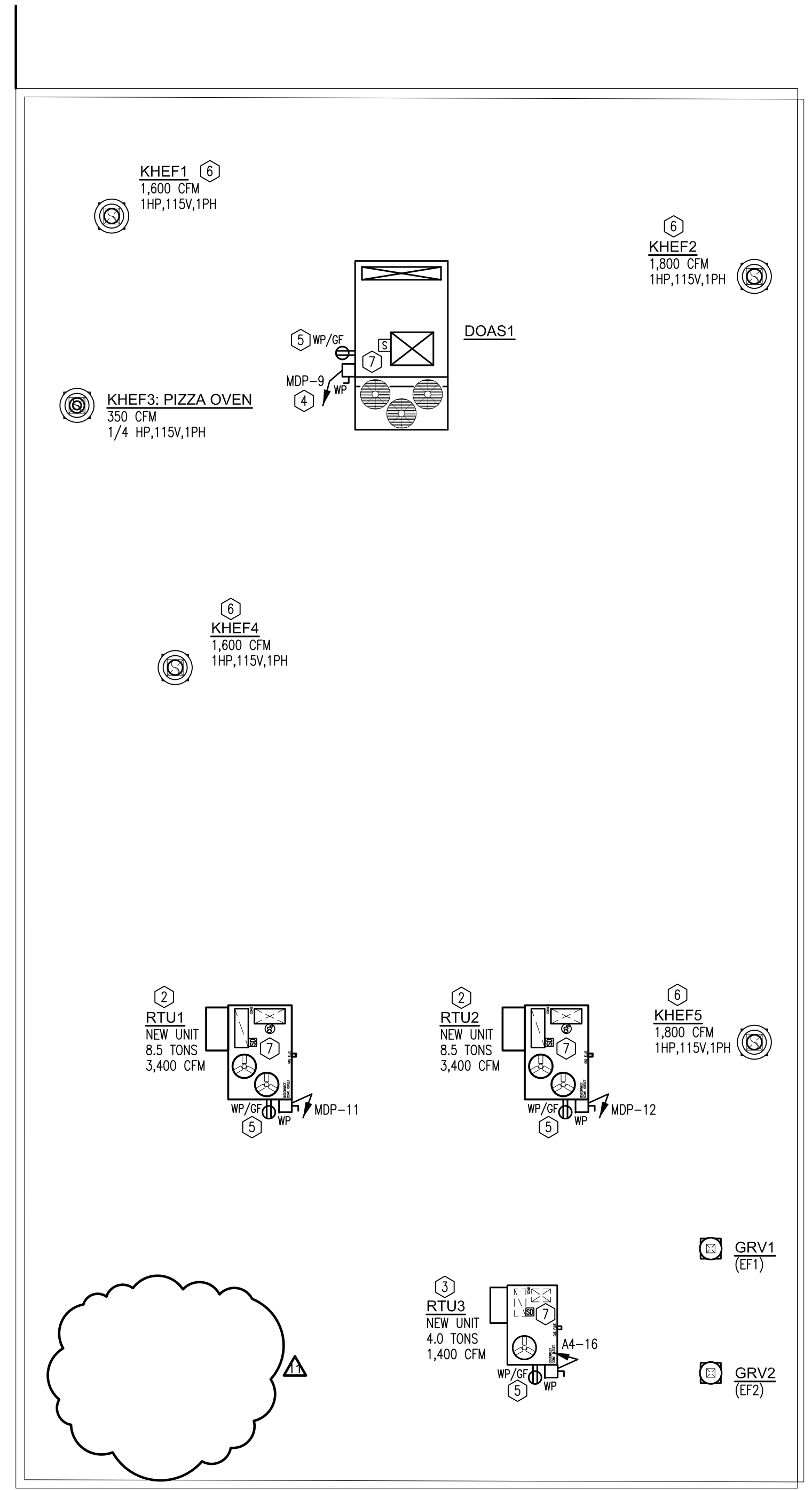
PANEL - A1									
SPEC. SECTION - 262416		SCR - 10K			LOCATION - VENDOR 1				
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 100A MB			MOUNTING - RECESSED				
CONN. KVA - 27.5		DEMAND KVA - 19.2			DEMAND AMPS - 53				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD			
CEILING RECEPT	.4	20-1	1 2	20-1	1.4	KHEF1 HOOD 5			
CONV RECEPT	.6		3 4	15-1	.2	HOOD CONTROL/LIGHTS			
POS	1.0		5 6	20-1 GFIA	.5	REFRIG PREP TABLE E10			
E1 REF. DISPLAY CASE	.4		7 8	20-1	.5	LIGHTING/MENU			
E9 REACH-IN REFRIG	.7	20-1 GFIA	9 10	60-2 ST	8.6	FRYER E3			
E11 MERCHANDISER	.3	20-1 GFIA	11 12						
E6, E7 MIXER, BLENDER	1.3	20-1 GFIA	13 14						
E12 CONV OVEN	6.2	30-2 GFIA	15 16	20-1 GFIA	.7	CONV. OVEN E2			
			17 18						
SPACE			19 20	20-2	2.7	ICE CREAM E4			
			21 22						
			23 24	30-1 GFIA	2.0	STEAM TABLE E9			
			25 26			SPACE			
			27 28						
			29 30						

PANEL - A2									
SPEC. SECTION - 262416		SCR - 10K			LOCATION - VENDOR 2				
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 100A MB			MOUNTING - RECESSED				
CONN. KVA - 30.4		DEMAND KVA - 24.4			DEMAND AMPS - 68				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD			
CEILING RECEPT	.4	20-1	1 2	20-1	1.4	KHEF2 HOOD 5			
E4 ICE MACHINE	.6	20-1 GFIA	3 4	15-1	.2	HOOD CONTROL/LIGHTS			
E1 BACK BAR FRIDGE	.4	20-1	5 6	20-1	.2	CONV RECEPT			
POS	.4		7 8	20-1 GFIA	.9	REFRIG PREP TABLE E6			
SPARE	.		9 10	20-1 GFIA	1.8	WAFFLE MAKER E7			
LIGHTING/MENU	.7		11 12	20-1 GFIA	.9	REFRIG PREP TABLE E6			
SPARE	.	20-1 GFIA	13 14	60-2	11.0	CONV. OVEN E2			
SPARE	.	20-1 GFIA	15 16						
SPACE			17 18	60-2	11.0	CONV. OVEN E2			
			19 20						
			21 22	20-1 GFIA	.5	GAS RANGE E3			
			23 24						
			25 26			SPACE			
			27 28						
			29 30						

PANEL - A3									
SPEC. SECTION - 262416		SCR - 10K SERIES RATED			LOCATION - VENDOR 3&4				
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 100A MB			MOUNTING - RECESSED				
CONN. KVA - 12.7		DEMAND KVA - 12.1			DEMAND AMPS - 34				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD			
KHEF3 PIZZA OVEN	.5	20-1	1 2	20-1	1.4	KHEF4 HOOD 5			
E3 PIZZA OVEN	1.5	20-1	3 4	15-1	.2	HOOD CONTROL/LIGHTS			
E2 REFRIG PREP TABLE	.6	20-1 GFIA	5 6	20-1 GFIA	.9	REFRIG PREP TABLE E2			
E4 REACH-IN FREEZER	1.1	20-1 GFIA	7 8	20-1 GFIA	.	SPARE			
E1 MIXER	1.7	20-1	9 10	20-1	.6	CONV RECEPT			
POS	.4	20-1	11 12	20-1	.4	JUKE BOX			
LIGHTING/MENU	1.0	20-1	13 14	20-1	.4	POS			
SPARE	.	20-1 GFIA	15 16	30-1 GFIA	2.0	STEAM TABLE			
SPARE	.	20-1 GFIA	17 18			SPACE			
			19 20						
			21 22						
			23 24						
			25 26						
			27 28						
			29 30						

PANEL - A5									
SPEC. SECTION - 262416		SCR - 10K SERIES RATED			LOCATION - VENDOR 5				
VOLTAGE - 208Y/120V-3PH-4W		MAINS - 100A MB			MOUNTING - RECESSED				
CONN. KVA - 8.3		DEMAND KVA - 8.0			DEMAND AMPS - 22				
LOAD	KVA	BKR.	CKT. No.	BKR.	KVA	LOAD			
CONV RECEPT	.6	20-1	1 2	20-1	1.4	KHEF5 HOOD 5			
POS	.4		3 4	15-1	.2	HOOD CONTROL/LIGHTS			
LIGHTING/MENU	.6		5 6	20-1 GFIA	.3	REACH-IN FREEZER E3			
E6 PREP TABLE	.9	20-1 GFIA	7 8	20-1 GFIA	.9	REACH-IN FREEZER E2			
SPARE	.	20-1 GFIA	9 10	20-2 GFIA	3.0	STEAM TABLE E1			
			11 12						
			13 14			SPACE			
			15 16						
			17 18						
			19 20						
			21 22						
			23 24						
			25 26						
			27 28						
			29 30						

ABBREVIATIONS:
MLO-MAIN LUGS ONLY, DSL-DOUBLE SET OF LUGS, MB-MAIN BREAKER,
GFIA-CLASS A GROUND FAULT BREAKER, GFIB-CLASS B GROUND FAULT BREAKER, LC-LOCKING CLIP,
ST-SHUNT TRIP BREAKER, RLY-RELAY CONTROLLED CIRCUIT, AFCI-ARC-FAULT CIRCUIT INTERRUPTER



GENERAL NOTES

- A. WIRE EXIT SIGNS AND BATTERY OPERATED EMERGENCY LIGHTS AHEAD OF SWITCHING OF LIGHTING CIRCUIT SERVING AREA OF LOCATION OF EXIT SIGN/EMERGENCY LIGHT. WIRE AHEAD OF LIGHTING CONTROL RELAYS.
- B. GROUND FAULT RECEPTACLES SHALL BE LOCATED SUCH THAT THEY ARE READILY ACCESSIBLE. WHERE RECEPTACLES ARE NOT READY ACCESSIBLE, GROUND FAULT CIRCUIT BREAKERS SHALL BE UTILIZED.
- C. FOR ALL NEW CIRCUITS THAT REQUIRE NEUTRALS, NEUTRALS SHALL BE DEDICATED (NO SHARED NEUTRALS).
- D. CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT WITH OWNER PRIOR TO ANY ROUGH-IN.
- E. CONTRACTOR SHALL INCLUDE HOOD MANUFACTURER ELECTRICAL SCOPE OF WORK PER HOOD MANUFACTURER DRAWING SET. PROVIDE ALL REQUIRED FIELD WIRING AS INDICATED ON HOOD MANUFACTURER DRAWINGS FOR FULLY FUNCTIONAL HOOD SYSTEMS INTEGRATED WITH EXHAUST FANS, MAKE-UP AIR UNITS, AND SHUTDOWN CONTROL OF GAS TO EQUIPMENT BELOW TYPE 1 HOODS.

CONSTRUCTION NOTES

- 1. NOTE DELETED.
- 2. PROVIDE CONNECTION TO 208V-3PH 15.7 KVA ROOFTOP UNIT, 3-#6, 1-#10 GROUND, 1°C, FUSED AT 60A LPN-RK.
- 3. PROVIDE CONNECTION TO 208V-3PH 8.1 KVA ROOFTOP UNIT, 3-#10, 1-#10 GROUND, .75°C, FUSED AT 30A LPN-RK.
- 4. PROVIDE CONNECTION TO 208V-3PH 42 KVA MAKEUP AIR UNIT, 3-#1/0, 1-#6 GROUND, 1.5°C, FUSED AT 150A LPN-RK.
- 5. ALL ROOF MOUNTED RECEPTACLES SHALL BE SERVED FROM CIRCUIT A4-19. UTILIZE #10 CONDUCTORS TO LIMIT VOLTAGE DROP.
- 6. HOOD EXHAUST FANS SHALL BE CIRCUITED THROUGH ASSOCIATED HOOD CONTROL PANEL. REFER TO SHEET E-203 FOR CIRCUITING, NOTES 5&6.
- 7. PROVIDE FIRE ALARM CONNECTION TO DUCT MOUNTED SMOKE DETECTOR PER SPECIFICATION 283111, PARAGRAPH O.
- 8. PIZZA OVEN EXHAUST FAN, REFER TO SHEET E-203 FOR CIRCUITING.
- 9. NOTE DELETED.

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SHEET NAME:
ROOF PLAN - NEW WORK

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