Buffalo Puttz

201 Ganson Street, Buffalo NY 14202

S.A. PROJECT # 22073.03
DATE: 1-12-2026

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MEP ENGINEER:

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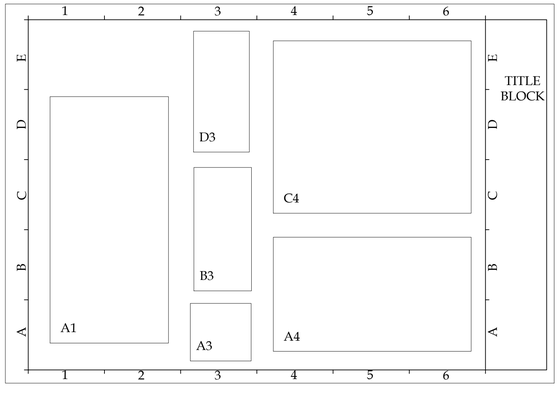
DRAWING AREA LOGIC



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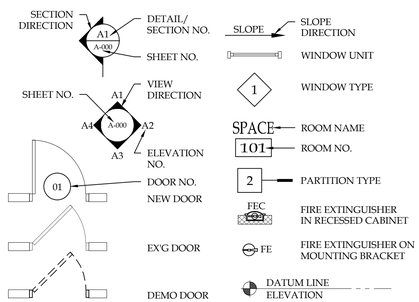
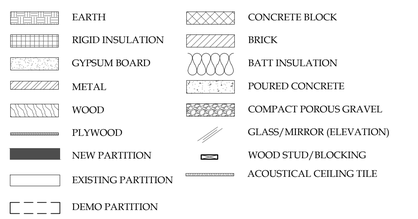
ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
ACT	ACOUSTICAL CEILING TILE
AC	AIR CONDITION (ING)
ALT	ALTERNATE
ALUM	ALUMINUM
APPX	APPROXIMATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
BM	BEAM
BRG	BEARING
BM	BENCH MARK
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOMS
BRK	BRICK
BEJ	BRICK EXPANSION JOINT
BC	BRICK COURSE
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CLG	CEILING
CAB	CABINET
CPT	CARPET
CW	CASEWORK
CB	CATCH BASIN
CEM	CEMENT
CT	CERAMIC TILE
CHBD	CHALK BOARD
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CG	CORNER GUARD
CRS	COURSE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
DIFF	DIFFUSER
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
ELEC	ELECTRICAL
EL	ELEVATOR
ELEV	ELEVATION
EQ	EQUAL
EE	EXHAUST FAN
EXIST EX'G	EXISTING
EJ	EXPANSION JOINT
FB	FACE BRICK
FIN	FINISH (ED)
FA	FIRE ALARM
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FP	FIRE PROOFING
FL	FLOOR
FD	FLOOR DRAIN
FT	FOOT
FWC	FACE WALL COVERING
FTG	FOOTING
FDTN	FOUNDATION
FUR	FURRING
GAL	GALLON
GA	GAGE
GC	GENERAL CONTRACTOR
GL	GLASS
GB	GRAB BAR
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDW	HARDWARE
WD	HARDWOOD
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIB
HW	HOT WATER
INSUL	INSULATE (D) (ION)
INS GL	INSULATED GLASS
INV	INVERT
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
KO	KNOCK OUT
LAM	LAMINATED
LAV	LAVATORY
LH	LEFT HAND
LGT	LENGTH
LT	LIGHT
LF	LINEAR FEET
LTL	LINTEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMF	LIGHT GAUGE METAL FRAMING
LVR	LOUVER
LP	LOW POINT
LVT	LUXURY VINYL TILE
MACH	MACHINE
MH	MANHOLE
MFR	MANUFACTURER
MAS	MASONRY
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MTP	METAL TOILET PARTITION
MIN	MINIMUM
MISC	MISCELLANEOUS
MULL	MULLION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NOM	NOMINAL
NO	NUMBER
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OPPH	OPPOSITE HAND
OH	OVERHEAD
PMBC	PRENGINEERED METAL BUILDING CONTRACTOR
PNT	PAINT (ED)
PNL	PANEL
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTACLE
PVMT	PAVEMENT
PGBD	PEG BOARD
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
POL	POLISHED
PWD	PLYWOOD
PT	POINT
PSI	POUNDS PER SQ. INCH
PSF	POUNDS PER SQ. FOOT
PREFAB	PREFABRICATED
PREF	PREFINISHED
PROJ	PROJECTION
PL	PROPERTY LINE
QT	QUARRY TILE
RAD	RADIUS
RWL	RAIN WATER LEADER
RECPT	RECEPTACLE, ELECTRIC
REC	RECESS
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING)
REQ'D	REQUIRED
RES	RECESS (ED)
RCP	REFLECTED CEILING PLAN
RET	RETURN
RA	RETURN AIR
RVS	REVERSE
REV	REVISION
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISER
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RND	ROUND
SDL	SADDLE
STG	SEATING
SHTH	SHEATHING
SHT	SHEET
SHR	SHOWER
SIM	SIMILAR
SPKR	SPEAKER
SPEC	SPECIFICATIONS
SQ	SQUARE
SST	STAINLESS STEEL
SP	STAND PIPE
STD	STANDARD
SD	STORM DRAIN
SGT	STRUCTURAL GLAZED TILE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
SV	SHEET VINYL
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERATURE
TEX	TEXTURE
THK	THICK (NESS)
THR	THRESHOLD
TP	TOILET PAPER HOLDER
T/O	TOP OF
TB	TOWEL BAR
TYP	TYPICAL
UCL	UNDER CABINET LIGHT
UC	UNDERCUT
UR	URINAL
VTR	VENT THRU ROOF
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITE TILE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
WSCT	WAINSCOT
WS	WEATHER STRIP
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WCDF	WHEELCHAIR DRINKING FOUNTAIN
W/	WITH
W/O	WITHOUT
WD	WOOD

DRAFTING SYMBOLS



MATERIAL SYMBOLS



BUILDING DATA

OCCUPANCY CLASSIFICATION:	ASSEMBLY A2/ A3
CONSTRUCTION TYPE:	IIB
GROSS PROJECT AREA:	22,770 SF
SPRINKLERED:	NFPA 13
OCCUPANT LOAD:	

ISSUE

1/12/26 75% BID SET

SHEET IDENTIFICATION LOGIC

A-101

DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SEQUENCE NUMBER

DISCIPLINE DESIGNATOR		SHEET TYPE DESIGNATOR	
G	GENERAL	0	GENERAL
C	CIVIL	1	PLANS
L	LANDSCAPE	2	ELEVATIONS
S	STRUCTURAL	3	SECTIONS
A	ARCHITECTURAL	4	LARGE SCALE VIEWS
F	FIRE PROTECTION	5	DETAILS
P	PLUMBING	6	SCHEDULES & DIAGRAMS
M	MECHANICAL		
E	ELECTRICAL		

Buffalo Puttz
201 Ganson Street, Buffalo NY 14202
JOB CAPTAIN: W.Mandhardt DRAFTER: J.Zeno INTERIORS: S.Shank
PROJ. ARCHITECT: ___
SA PROJECT TEAM: PRINCIPAL: P.Silvestri
S.A. PROJECT # 22073.03
DATE: 1-12-26

GENERAL STRUCTURAL NOTES:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2020 NEW YORK STATE BUILDING CODE.

2. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AS A COMPLETE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND SEQUENCES OF ALL PHASES OF CONSTRUCTION AND DEMOLITION INCLUDING TEMPORARY SHORING, BRACING, COLD AND HOT-WEATHER PROTECTION, AND FOUNDATION UNDERPINNING. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS THAT PERTAIN TO MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION.

3. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION AND COORDINATED WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE SUCH REQUIREMENTS INTO THEIR WORK.

4. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION AS DETERMINED BY THE ARCHITECT OR ENGINEER.

5. CONTRACTOR TO COORDINATE ALL OPENINGS, EQUIPMENT LOCATIONS, AND INSERTS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE TRADES THAT REQUIRE THEM. PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE NOT PERMITTED EXCEPT AS DETAILED.

6. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, ALL DIMENSIONS TO THE EXISTING STRUCTURE AND ALL STRUCTURAL SIZES AND DEPICTIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

7. WHERE DEMOLITION OR OTHER MODIFICATIONS TO THE EXISTING STRUCTURE ARE REQUIRED, THE CUTTING, DRILLING, AND REMOVALS SHALL OCCUR IN A MANNER WHICH WILL PREVENT DAMAGE TO ADJOINING CONSTRUCTION WHICH IS TO REMAIN. UNLESS OTHERWISE INDICATED, PROVIDE NEW MATERIALS TO MATCH THE APPEARANCE AND PERFORMANCE OF EXISTING CORRESPONDING MATERIALS WHERE DEMOLITION OCCURS.

8. STRUCTURAL MEMBERS MARKED (EX) ARE EXISTING AND ARE TO BE VERIFIED IN THE FIELD.

9. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND SIGNED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE ARCHITECT AND ENGINEER. REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE USED FOR THE PREPARATION OF SHOP DRAWINGS.

DESIGN LOADS:

1. LIVE LOAD:
   ROOF = 20 PSF

2. SNOW LOADS:
   Pg = 50psf
   Pf = 39.5psf
   I = 1.0
   Ct =1.1
   DRIFT LOADS IN ACCORDANCE WITH ASCE 7

3. WIND LOADS:
   Vult = 109mph
   Iw = 1.0
   EXPOSURE = B

SEISMIC

SEISMIC USE GROUP "II" – SEISMIC DESIGN CATEGORY B
SDS = 0.268g
SD1 = 0.126G
SITE CLASS "E"

BASIC SEISMIC FORCE RESISTING SYSTEM = ORDINARY MOMENT FRAMES/ CANTILEVERED COLUMNS R = 3.0
DESIGN BASE SHEAR = 15K
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE
Ie = 1.00

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC CODE OF STANDARD PRACTICE.

2. STRUCTURAL STEEL GRADES (UNLESS NOTED OTHERWISE):
   A) STRUCTURAL STEEL (W-): ASTM A992, Fy=50ksi
   B) STRUCTURAL STEEL (L-, C- PLATES): ASTM A36, fy = 36ksi
   C) STRUCTURAL TUBING: ASTM A500, fy=46ksi
   D) STRUCTURAL STEEL PIPE: ASTM A53 GRADE B, Fy=35ksi
   E) BOLTS: ASTM A325
   F) ANCHOR RODS: F1554 GR. 55 WELDABLE
   G) WELDS: E70xx
   H) GALVANIZING,
      I) STRUCTURAL STEEL: ASTM A123
   J) ADHESIVE ANCHORS (BASIS OF DESIGN):
      i) HILTI HY150
      ii)POWERS AC100 PLUS

3. WELDS NOT INDICATED FOR STEEL-TO-STEEL CONNECTIONS SHALL BE AN ALL AROUND FILLET WELD WITH A MINIMUM THROAT THICKNESS PER AISC AND AWS STANDARDS.

4. ALL STRUCTURAL STEEL SHALL BE COATED AS INDICATED BELOW. APPLY COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INCLUDING SURFACE PREPARATIONS AND COMPATIBILITY REQUIREMENTS BETWEEN ALL COATINGS. AFTER ERECTION TOUCH UP ALL AREAS WHERE PAINT OR GALVANIZING IS MISSING OR DAMAGED INCLUDING FIELD WELDS. COLOR SHALL BE AS DETERMINED BY THE OWNER OR ARCHITECT.

   (A) EXTERIOR EXPOSED STEEL. TO BE HOT-DIPPED GALVANIZED.

   (B) ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER.

5. ALL CONNECTIONS AND DETAILS NOT SPECIFICALLY INDICATED ON THE DRAWINGS ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER.

6. SUBMIT SHOP DRAWINGS FOR STRUCTURAL STEEL FOR REVIEW PRIOR TO CONSTRUCTION.

CONCRETE:

1. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFOR.M TO ACI 318 AND ACI 301.

2. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:
   2.1. FOOTINGS, PILECAPS 3,000psi, MAX. W/C RATIO = 0.49
   2.2. PIERS, FND. WALLS 3,500psi, MAX. W/C RATIO = 049
   2.3. SLAB ON GRADE 3,500psi, MAX. W/C RATIO = 0.50

3. LEVELING GROUT SHALL BE NON-SHRINK CONFORMING TO ASTM C1107 WITH A MINIMUM 2-DAY STRENGTH OF 5,000psi.

4. ALL CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE ENTRAINED AIR AS FOLLOWS:

MAXIMUM AGGREGATE SIZE	AIR CONTENT
2 in.	4% TO 6.5%
1.5 in.	4% TO 7%
1 in	4.5% TO 7%
0.75 in.	4.5% TO 7%

5. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, AND SHALL BE SUPPLIED IN SHEETS ONLY. THE WELDING Of REINFORCING BARS SHALL CONFORM TO ASTM A706 AND AWS D1.4.

6. THE CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT PRIOR TO POURING CONCRETE.

7. CLEAR COVER TO REINFORCING SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE
   7.1.CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH – 3"
   7.2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
      #6 AND LARGER – 2"
      #5 AND SMALLER – 1 1/2"
   7.3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER;
      SLABS, WALLS – 3/4"
      ALL OTHER 1 – 1/2"

8. LAP SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 FOR CLASS "B" TENSION LAP SPLICES, UNLESS NOTED OTHERWISE.

9. HOOKS AND BENDS IN REINFORCING BARS SHALL CONFORM TO ACI 318 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

10.UNLESS SHOWN OTHERWISE, DOWELS INTO FOUNDATION ELEMENTS SHALL HAVE A STANDARD 90 DEGREE HOOK AND SHALL BE THE SAME SIZE AND QUANTITY PROVIDED IN PIERS AND WALLS ABOVE THE FOUNDATION.

11. PROVIDE A #4x4'-0"Lg. REBAR IN CONCRETE SLABS ACROSS ALL REENTRANT CORNERS OF RECTANGULAR SLAB OPENINGS AND AROUND THE PERIMETER OF ROUND SLAB OPENINGS.

12.PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN ALL WALLS AND FOOTINGS.

13.CONCRETE TESTING SHALL BE AS FOLLOWS:
   13.1. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF (ASTM C172).
   13.2. OBTAIN: SLUMP (ASTM C143), AIR CONTENT (ASTM C231), TEMPERATURE (ASTM C1064), UNIT WEIGHT; (ASTM C567), COMPRESSION TEST SPECIMENS (ASTM C31) FOR EACH COMPOSITE SAMPLE.
   13.3. CAST AND FIELD CURE ONE SET OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. TEST (1) AT 7 DAYS, (2) AT 28 DAYS AND (1) AT 56 DAYS.

14.SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL AND CONCRETE MIX DESIGNS TO THE ARCHITECT FOR REVIEW BEFORE CONSTRUCTION.

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Buffalo Puttz
201 Ganson Street,
Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

NOT FOR CONSTRUCTION

SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

GENERAL NOTES

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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: S-100

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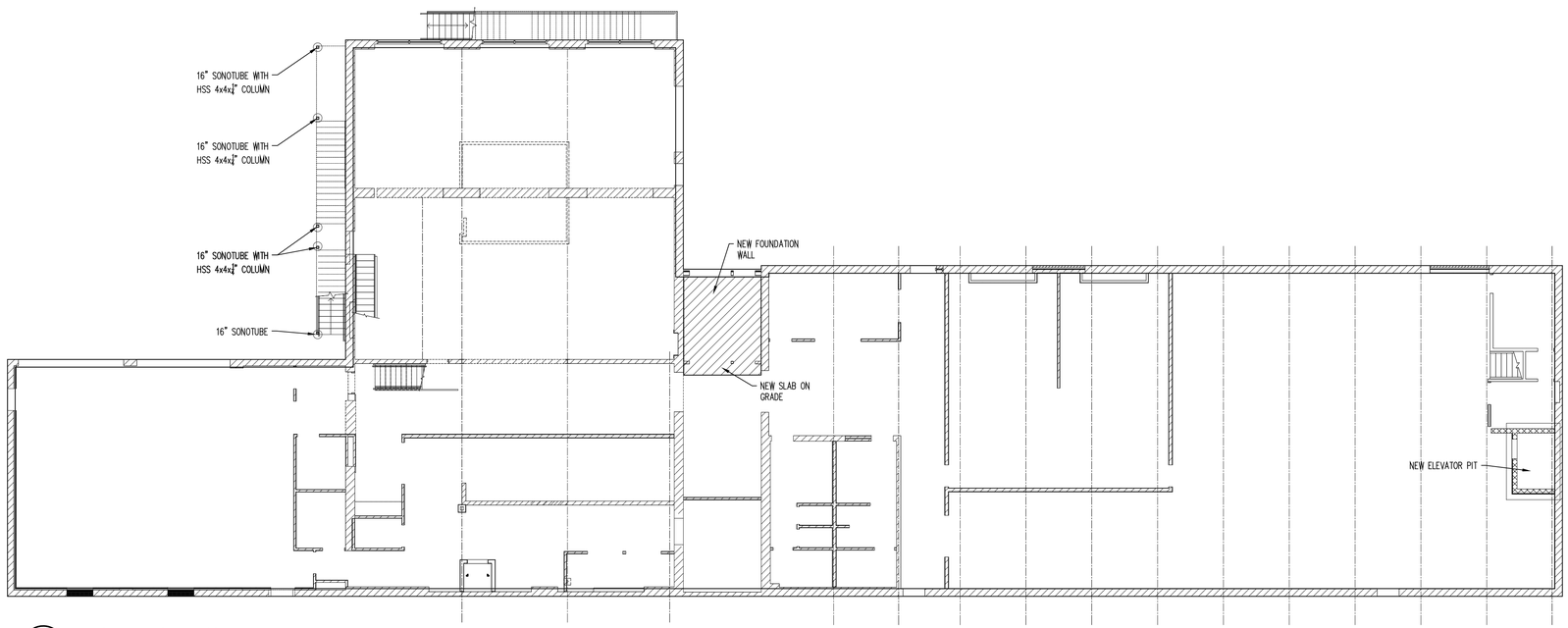

1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

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PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

FOUNDATION PLAN

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SA JOB #: 22073.03

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DRAWING #: S-101

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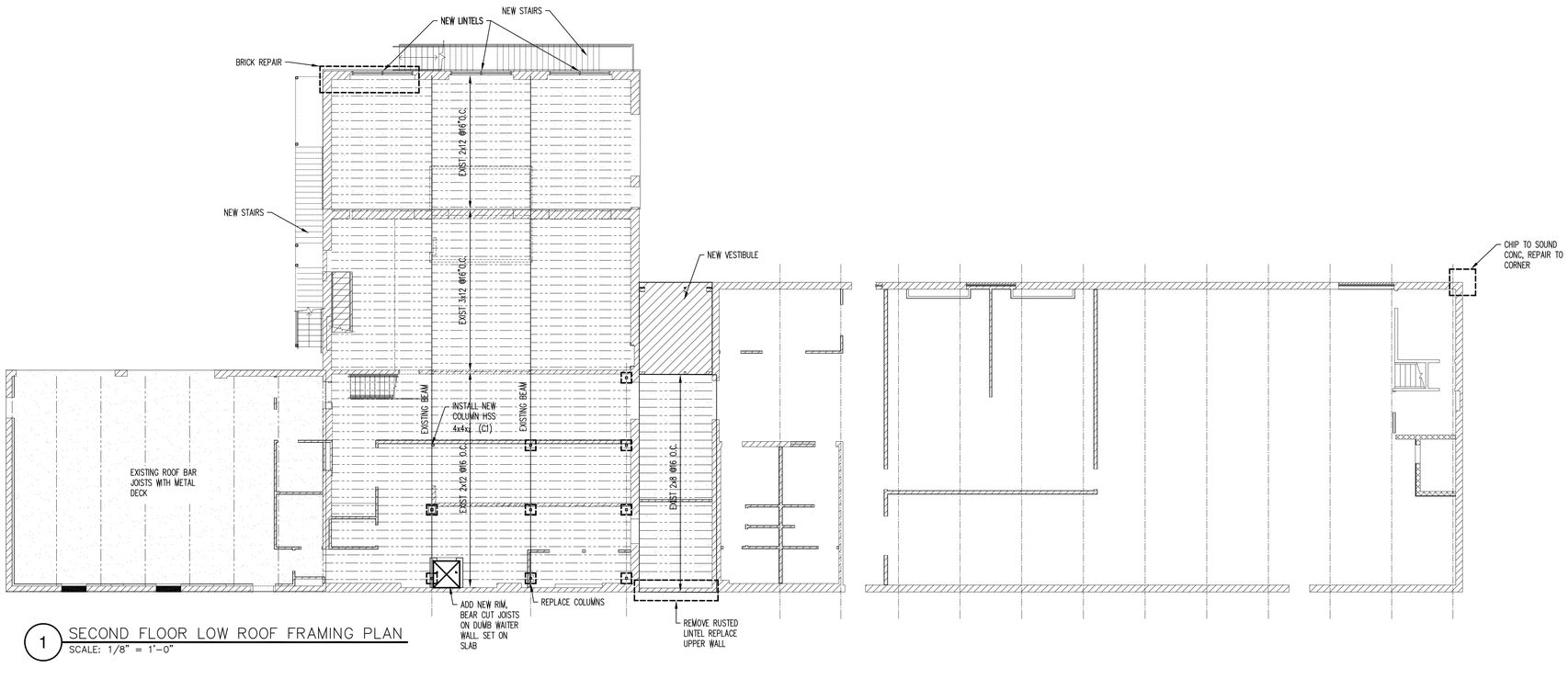
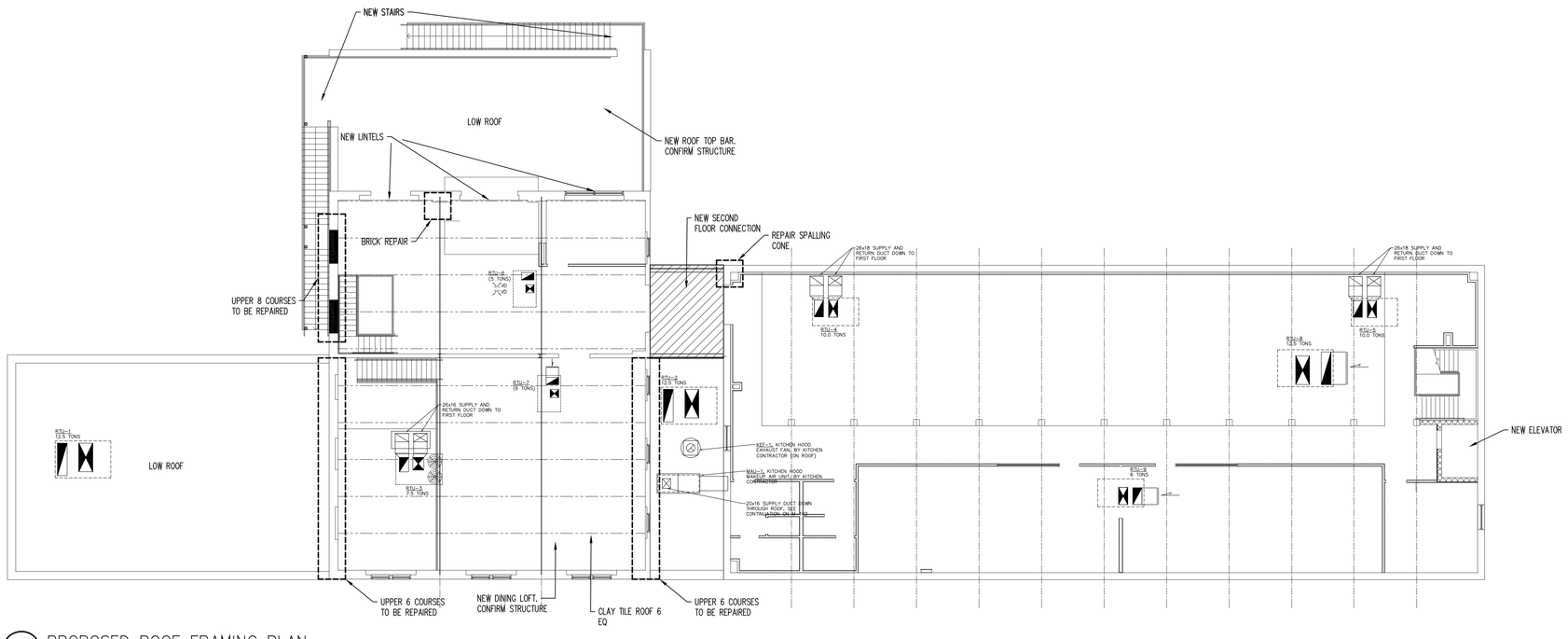


1 SECOND FLOOR LOW ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



2 PROPOSED ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

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SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____
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JOB CAPT. W. Manhardt
INTERIORS S. Shank

SEAL:

TITLE:
SECOND FLOOR & ROOF FRAMING PLAN

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SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: S-102

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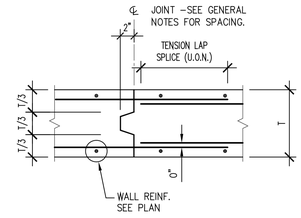

1 TYP. WALL CONSTR. JOINT
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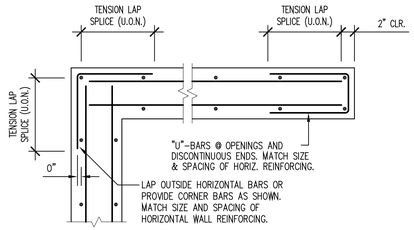
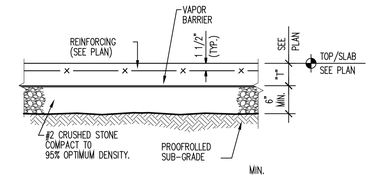


2 TYP. CORNERS AND ENDS OF CONC. WALLS
SCALE: NONE



3 DETAIL
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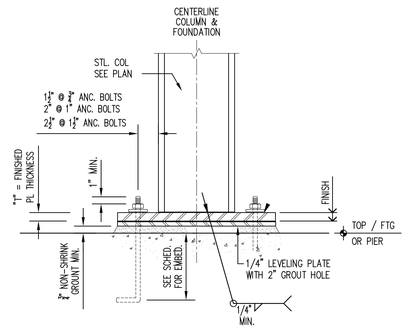

4 TYP. STEEL COLUMN BASE
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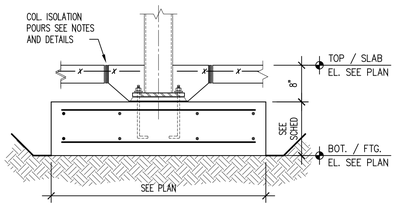
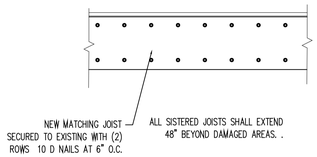


5 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



6 JOIST REPAIR / SISTERING
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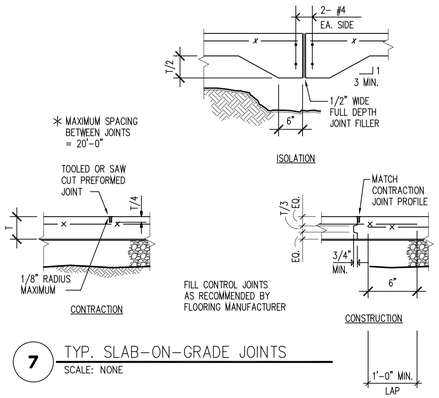
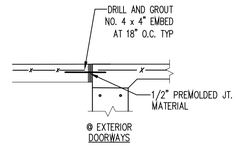
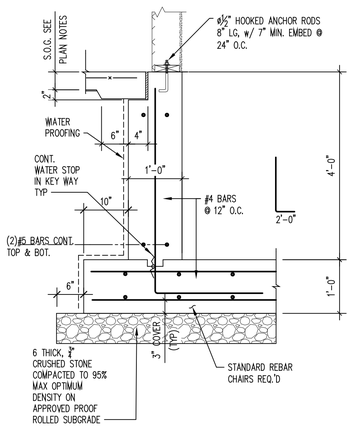


7 TYP. SLAB-ON-GRADE JOINTS
SCALE: NONE



8 TYP. SLAB-ON-GRADE JOINTS
SCALE: NONE



9 TYP. CIRCULAR WALL OPENING
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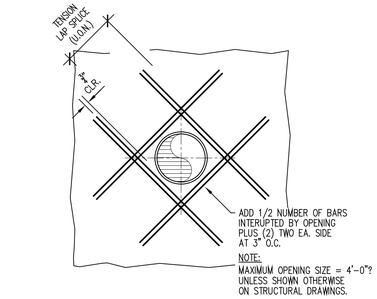

10 TYP. CIRCULAR WALL OPENING
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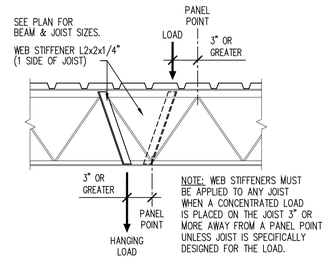

11 WEB STIFFENER FOR "K" AND "LH" JOISTS
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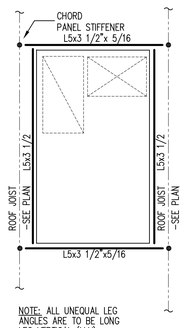
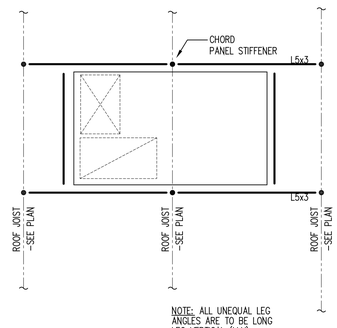


12 TYPICAL ROOF UNIT SUPPORT
SCALE: NONE



13 TYPICAL ROOF UNIT SUPPORT
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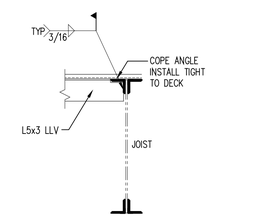

SIMILAR CONNECTION AT ANGLE TO ANGLE

14 SECTION
SCALE: NONE

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ISSUE:
1/12/26 75% BID SET

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SA PROJECT TEAM:
PROJ. ARCH. _____ PRINCIPAL **P. Silvestri**
JOB CAPT. **W. Manhardt** DRAFTER _____
INTERIORS **S. Shank**

SEAL:

TITLE:

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DATE: 1/12/26

DRAWING #: S-201

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Tel. 716.854.2008 Fax 716.854.1984

GENERAL NOTES

- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE NEW YORK STATE BUILDING CODES, OSHA STANDARDS AND FIRE SAFETY CODE / RELEVANT SECTIONS OF THE N.F.P.A. & ANY LOCAL CODES BEING MORE RESTRICTIVE THAN THE MINIMUMS LISTED.
- CONSTRUCTION MEANS, METHODS, TECHNIQUES AND CRAFTSMANSHIP ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES OCCUR BETWEEN DRAWINGS AND EXISTING CONDITIONS.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE PROJECT SITE IN ORDER TO DETERMINE THE EXTENT OF THE REQUIRED WORK. THIS INSPECTION SHALL BE COMPLETED PRIOR TO THE SUBMISSION OF ANY PROPOSAL TO COMPLETE THIS PROJECT. INSPECTION TIMES SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL INFORMATION ON THE DRAWINGS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF THE RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF THE WORK. THESE DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL BID & PERFORM THE WORK IN ACCORDANCE WITH THE FIELD CONDITIONS.
- ALL DIMENSIONS SHOWN FOR EXISTING STRUCTURES ARE BASED ON RECORD DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR IS ADVISED THAT SAID DRAWINGS MAY NOT ACCURATELY REFLECT AS BUILT CONDITIONS. ACCURATE FIELD MEASUREMENTS SHOULD BE MADE PRIOR TO ORDERING ANY PREFABRICATED MATERIALS. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND SHALL BE REFLECTED ON THE CONTRACTORS SHOP DRAWINGS.
- THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR THIS PROJECT WILL BE COMPLETED TO THE SCOPE OF THE PROJECT IN COMPLIANCE WITH THE OWNER AND DESIGN TEAM. ANY CHANGES TO THESE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS WILL ONLY BE DONE BY A CHANGE ORDER THAT IS APPROVED BY THE OWNER'S REPRESENTATIVE.
- CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDINGS AS TO THE AMOUNT AND / OR SCOPE OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS, AND CONDITIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, THE CONTRACTOR SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL FOR THE WORK.
- ALL OWNER SUPPLIED ITEMS WILL BE COORDINATED WITHIN THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULES PRIOR TO COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE WITH THE OWNER FOR ALL BUILDING AND CONSTRUCTION SIGNAGE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF HIS WORK AND SCHEDULE WITH WORK BEING PERFORMED BY OTHERS AND THE USER/OWNER OF THE BUILDING.
- ALL DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF CONCRETE OR MASONRY, CENTERLINE OF COLUMNS AND BEAMS, AND FINISH TO FINISH, UNLESS OTHERWISE NOTED.
- THE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING WITH SAID WORK.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SOME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL VERIFY AND ESTABLISH THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WITHIN THE WORK AREA, AND SHALL COORDINATE WITH THE OWNER AND THE UTILITY COMPANIES PRIOR TO THE START OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING REQUIRED TO ADEQUATELY PROTECT PERSONAL AND ADJACENT PROPERTY AND TO INSURE SAFETY OF THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL CEILING HEIGHTS AS SHOWN ON DETAILS OR PLANS OR NOTES ARE FROM TOP OF CONCRETE DECK TO FINISH CEILING. USE OF THE TERM ABOVE FINISH FLOOR (A.F.F.) MEANS MEASURED FROM THE TOP OF CONCRETE DECK. CONTRACTOR SHALL ALLOW FOR AND COORDINATE WORK WITH FLOOR FINISH MATERIAL AND INSTALLATION METHOD.
- PROVIDE INDEPENDENT SUSPENSION FOR ALL LIGHT FIXTURES. SUSPENSION FOR CEILING AND LIGHT FIXTURES SHALL BE INDEPENDENT OF SUSPENSION FOR DUCT WORK.
- ALL EQUIPMENT AND MATERIALS INSTALLED IN THIS JOB SHALL BE NEW AND FREE OF ANY DEFECTS UNLESS OTHERWISE NOTED.
- CONTRACTORS SHALL RECORD ALL DEVIATIONS FROM THE DESIGN DOCUMENTS IN THE DRAWINGS, AND PROVIDE A COPY TO THE ARCHITECT UPON THE COMPLETION OF WORK.
- PROVIDE APPROVED SEPARATION BY MEANS OF COATINGS, GASKETS, OR OTHER EFFECTIVE MEANS TO PREVENT GALVANIC CORROSION BETWEEN ALL DISSIMILAR METALS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS OF THIS PROJECT TO ADJACENT PROPERTY, UTILITIES, PAVEMENT, LANDSCAPING, STRUCTURES OR IMPROVEMENTS OF ANY KIND. THE GENERAL CONTRACTOR SHALL REPAIR ALL SUCH DAMAGE D ITEMS TO THE CONDITION THEY WERE IN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES OR BETTER.
- WHERE IT IS NECESSARY TO INSURE STABILITY, CONTRACTOR IS TO PROVIDE ADDITIONAL ANCHORING AND/OR BLOCKING IN STUD PARTITIONS OR BRACE PARTITIONS ABOVE CEILINGS.
- REMOVE EXISTING DRYWALL AS REQUIRED TO ACCOMMODATE NEW ROOF PENETRATIONS. REPLACE DRYWALL AFTER EQUIPMENT INSTALLATION TO BE TIGHT TO NEW EQUIPMENT.
- ANY PENETRATIONS THROUGH EXISTING RATED CEILING ASSEMBLY ARE TO HAVE UL APPROVED FIRE STOPPING & FIRE SEALANT SYSTEMS.

GENERAL WALL NOTES

- SEE SPECIFICATIONS FOR APPLICATIONS OF GYPSUM PRODUCTS, UNLESS NOTED ON DRAWINGS. REFER TO SPECIFICATIONS FOR SPECIAL APPLICATIONS, THICKNESS, AND TYPES. (I.E. MOLD & MOISTURE RESISTANCE, TILE BACKER BOARDS, ETC.)
- REFER TO THE LATEST EDITION OF UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE DIRECTORY FOR ADDITIONAL REQUIREMENTS ON UL RATED ASSEMBLIES AS NOTED IN THE WALL SCHEDULE.
- USE ONLY PARTITIONS IDENTIFIED ON THE PLANS.
- STC = SOUND TRANSMISSION CLASS - REFER TO THE WALL SCHEDULE IN PLAN FOR WALLS THAT ARE SOUND RATED.
- ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.
- FIRE CAULK ALL PENETRATIONS IN RATED WALL ASSEMBLIES.

SOUND INSULATION NOTES

- ASSEMBLIES SHOULD BE AIRTIGHT. HAIRLINE CRACKS AND HOLES ARE NOT ALLOWED.
- RECESSED WALL FIXTURES SUCH AS CABINETS, OUTLETS, AND OTHER ITEMS WHICH PENETRATE THE GYPSUM BOARD SURFACE SHOULD NOT BE LOCATED BACK TO BACK IN THE SAME STUD CAVITY.
- ANY OPENINGS CUT FOR ANY FIXTURES SHALL BE CAREFULLY CUT TO SIZE, PROPERLY FASTENED, INSULATED PER WALL ASSEMBLY AND PROPERLY CAULKED.
- THE ENTIRE PERIMETER OF A SOUND INSULATING ASSEMBLY MUST BE MADE AIRTIGHT TO PREVENT SOUND FROM "FLANKING".
- AN ACOUSTICAL SEALANT SHOULD BE USED TO SEAL BETWEEN THE SOUND INSULATING ASSEMBLY AND ALL DISSIMILAR ASSEMBLIES AND BETWEEN THE ASSEMBLY AND SIMILAR SURFACES WHERE PERIMETER RELIEF IS REQUIRED. TAPING AND CAULKING OF GYPSUM BOARD WALL AND WALL-CEILING INTERSECTIONS PROVIDES AN ADEQUATE AIR SEAL AT THESE LOCATIONS.
- ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.
- ASTM RECOMMENDED PRACTICES E-497 SHOULD BE FOLLOWED FOR GOOD SOUND CONTROL. ALSO CONSULT THE MANUFACTURER OF THE GYPSUM BOARD FOR ANY SPECIAL RECOMMENDATIONS RELATING TO THEIR SYSTEM.

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1/12/26 75% BID SET

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PRINCIPAL P. Silvestri
PROJ. ARCH. _____
DRAFTER _____
JOB CAPT. W. Manhardt
INTERIORS S. Shank

SEAL:

TITLE:
GENERAL NOTES

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SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-001

ANSI 2017 ICC A117.1 = ACCESSIBILITY

THIS SHEET CONTAINS EXCERPTS FROM ANSI 2017 ICC A117.1, REFER TO FULL DOCUMENT FOR MORE INFORMATION.

CHAPTER 3 BUILDING BLOCKS

301 GENERAL

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

302 FLOOR SURFACES

302.1 General. Floor surfaces shall be stable, firm, and slip resistant, and shall comply with Section 302. Changes in level in floor surfaces shall comply with Section 303.
302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The pile shall be 1/2 inch maximum in height. Exposed edges of carpet shall be fastened to the floor and shall have trim along the entire length of the exposed edge. Carpet edge trim shall comply with Section 303.

FIGURE 302.2 CARPET ON FLOOR SURFACES

302.3 Openings. Openings in floor surfaces shall be of a size that does not permit the passage of a ½ inch diameter sphere, except as allowed in Sections 407.4.3, 408.4.3, 409.4.3, 410.4, and 805.10. Elongated openings shall be placed so that the long dimension is perpendicular to the predominant direction of travel.

303 CHANGES IN LEVEL

303.1 General. Changes in level in floor surfaces shall comply with Section 303.
303.2 Vertical. Changes in level of 1/4 inch maximum in height shall be permitted to be vertical.
303.3 Beveled. Changes in level greater than 1/4 inch in height and not more than 1/2 inch maximum in height shall be beveled with a slope not steeper than 1:2.

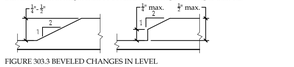


FIGURE 303.3 BEVELED CHANGES IN LEVEL

303.4 Ramps. Changes in level greater than 1/2 inch in height shall be by a ramp complying with Section 405 or by a curb ramp complying with Section 406.

304 TURNING SPACE

304.1 General. A turning space shall comply with Section 304.
304.2 Floor Surface. Floor surfaces of a turning space shall comply with Section 302. Changes in level shall not be permitted within the turning space.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.
304.3 Size. Turning spaces shall comply with Section 304.3.1 or 304.3.2.
304.3.1 Circular Space.
304.3.1.1 New buildings and facilities. In new buildings and facilities, the turning space shall be a circular space with a 60-inch minimum diameter.
304.3.1.1.1 Overlap. Turning spaces shall be permitted to include knee and toe clearance complying with Section 306. Where the turning space includes knee and toe clearances under an obstruction, the overlap shall comply with all of the following:
1. The depth of the overlap shall not be more than 10 inches, and
2. The depth shall not exceed the depth of the knee and toe clearances provided, and
3. The overlap shall be permitted only within the turning circle area shown shaded in Figure 304.3.1.1.

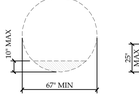


FIGURE 304.3.1.1 CIRCULAR TURNING SPACE - NEW BUILDINGS SIZE AND OVERLAP

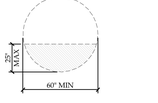
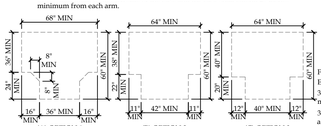


FIGURE 304.3.1.2 CIRCULAR TURNING SPACE - EXISTING BUILDINGS SIZE AND OVERLAP

304.3.1.2 Existing buildings and facilities. In existing buildings and facilities, the turning space shall be a circular space with a 60-inch minimum diameter.
304.3.1.2.1 Overlap. Turning spaces shall be permitted to include knee and toe clearance complying with Section 306.
304.3.2 T-Shaped Space.
304.3.2.1 New buildings and facilities. In new buildings and facilities, the turning space shall be a T-shaped space complying with one of the following:
1. A T-shaped space, clear of obstruction, that fits within an area 68 inches wide and 60 inches deep, with two arms and one base that are all 36 inches minimum in width. Each arm shall be 16 inches minimum from each side of the base located opposite the other, and the base shall extend 24 inches minimum from the arms. At the intersection of each arm and the base, the interior corners shall be chamfered for 8 inches minimum along both the arm and along the base.
2. A T-shaped space, clear of obstruction, that fits within an area 64 inches wide and 60 inches deep, with two arms 38 inches minimum in width and a base 42 inches minimum in width. Each arm shall extend 11 inches minimum from each side of the base, located opposite the other, and the base shall extend 22 inches minimum from each arm.
3. A T-shaped space, clear of obstruction, 64 inches wide and 60 inches deep, with two arms and one base 40 inches minimum in width. Each arm shall extend 12 inches minimum from each side of the base and the base shall extend 20 inches minimum from each arm.



(A) OPTION 1 (B) OPTION 2 (C) OPTION 3

FIGURE 304.3.2.1 T-SHAPED TURNING SPACE NEW BUILDINGS

304.3.2.1.1 Overlap. Turning spaces shall be permitted to include knee and toe clearance complying with Section 306 of either the base or one arm. For Option 1, the base or arm is the portion beyond the chamfer.

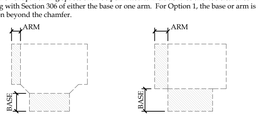


FIGURE 304.3.2.1.1 T-SHAPED TURNING SPACE NEW BUILDINGS - OVERLAP

304.3.2.2 Existing buildings and facilities. In existing buildings and facilities, the turning space shall be a T-shaped space within a 60-inch minimum square, with arms and base 36 inches minimum in width. Each arm of the T shall be clear of obstructions 12 inches minimum in each direction, and the base shall be clear of obstructions 24 inches minimum.

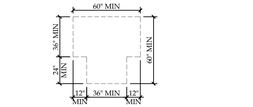


FIGURE 304.3.2.2 T-SHAPED TURNING SPACE EXISTING BUILDINGS - SIZE

304.3.2.2.1 Overlap. Turning spaces shall be permitted to include knee and toe clearance complying with Sections 306 only at the end of either the base or one arm.

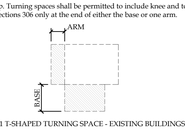


FIGURE 304.3.2.2.1 T-SHAPED TURNING SPACE - EXISTING BUILDINGS OVERLAP

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

305 CLEAR FLOOR SPACE

305.1 General. A clear floor space shall comply with Section 305.
305.2 Floor Surfaces. Floor surfaces of a clear floor space shall comply with Section 302. Changes in level are not permitted within the clear floor space.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.
305.3 Size.
305.3.1 New buildings and facilities. In new buildings and facilities, the clear floor space shall be 52 inches minimum in length and 30 inches minimum in width.

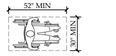


FIGURE 305.3.1 SIZE OF CLEAR FLOOR SPACE - NEW BUILDINGS

305.3.2 Existing buildings and facilities. In existing buildings and facilities, the clear floor space shall be 40 inches minimum in length and 30 inches minimum in width.

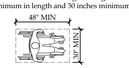


FIGURE 305.3.2 SIZE OF CLEAR FLOOR SPACE - EXISTING BUILDINGS

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor space shall be permitted to include knee and toe clearance complying with Section 306.
305.5 Position. Unless otherwise specified, clear floor spaces shall be positioned for either forward or parallel approach to an element.

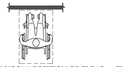


FIGURE 305.5(A) POSITION OF CLEAR FLOOR SPACE - FORWARD

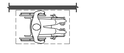


FIGURE 305.5(B) POSITION OF CLEAR FLOOR SPACE - PARALLEL

305.6 Approach. One full, unobstructed side of the clear floor space shall adjoin or overlap an accessible route or adjoin another clear floor space.
305.7 Alcoves. If a clear floor space is in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances complying with Sections 305.7.1 and 305.7.2 shall be provided, as applicable.
305.7.1 Parallel Approach. Where the clear floor space is positioned for a parallel approach, the alcove shall be 60 inches minimum in width where the depth exceeds 15 inches.

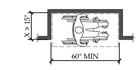


FIGURE 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE PARALLEL APPROACH

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

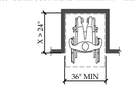


FIGURE 305.7.2 MANEUVERING CLEARANCE IN AN ALCOVE FORWARD APPROACH

306 KNEE AND TOE CLEARANCE

306.1 General. Where space beneath an element is included as part of clear floor space at an element, clearance at an element, or a turning space, the space shall comply with Section 306. Additional space shall not be prohibited beneath an element, but shall not be considered as part of the clear floor space or turning space.
306.2 Toe Clearance.
306.2.1 General. Space beneath an element between the floor and 9 inches above the floor shall be considered toe clearance and shall comply with Section 306.2.
306.2.2 Maximum Depth. Toe clearance shall be permitted to extend 25 inches maximum under an element.
306.2.3 Minimum Depth. Where toe clearance is required at an element as part of a clear floor space complying with Section 305, the toe clearance shall extend 17 inches minimum beneath the element.
306.2.4 Additional Clearance. Space extending greater than 6 inches beyond the available knee clearance at 9 inches above the floor shall not be considered toe clearance.
306.2.5 Width. Toe clearance shall be 30 inches minimum in width.

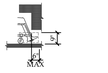


FIGURE 306.2(A) TOE CLEARANCE - ELEVATION

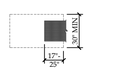


FIGURE 306.2(B) TOE CLEARANCE - PLAN

306.3 Knee Clearance.
306.3.1 General. Space beneath an element between 9 inches and 27 inches above the floor shall be considered knee clearance and shall comply with Section 306.3.

FIGURE 306.3(A) KNEE CLEARANCE - ELEVATION

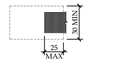


FIGURE 306.3(B) KNEE CLEARANCE - PLAN

306.3.2 Maximum Depth. Knee clearance shall be permitted to extend 25 inches maximum under an element at 9 inches above the floor.
306.3.3 Minimum Depth. Where knee clearance is required beneath an element as part of a clear floor space complying with Section 305, the knee clearance shall be 11 inches minimum in depth at 9 inches above the floor, and 8 inches minimum in depth at 27 inches above the floor.
306.3.4 Clearance Reduction. Between 9 inches and 27 inches above the floor, the knee clearance shall be permitted to be reduced at a rate of 1 inch in depth for each 6 inches in height.
306.3.5 Width. Knee clearance shall be 30 inches minimum in width.

307 PROTRUDING OBJECTS

307.1 General. Protruding objects on circulation paths shall comply with Section 307.
307.2 Protrusion Limits. Objects with leading edges more than 27 inches and not more than 80 inches above the floor shall protrude 4 inches maximum horizontally into the circulation path.
EXCEPTION: Handrails shall be permitted to protrude 4 ½ inches maximum.

FIGURE 307.2 LIMITS OF PROTRUDING OBJECTS

307.3 Post-Mounted Objects. Objects on posts or pylons shall be permitted to overhang 4 inches maximum where more than 27 inches and not more than 80 inches above the floor. Objects on multiple posts or pylons where the clear distance between the posts or pylons is greater than 12 inches shall have the lowest edge of such object either 27 inches maximum or 80 inches minimum above the floor.
EXCEPTION: Sloping portions of handrails between the top and bottom riser of stairs and above the ramp run shall not be required to comply with Section 307.3.
307.4 Vertical Clearance. Vertical clearance shall be 80 inches minimum. Rails or other barriers shall be provided where the vertical clearance is less than 80 inches. The leading edge of such rails or barrier shall be located 27 inches maximum above the floor.
EXCEPTION: Door closers and door stops shall be permitted to be 78 inches minimum above the floor.
307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 REACH RANGES

308.1 General. Reach ranges shall comply with Section 308.
308.2 Forward Reach.
308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the floor.

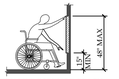


FIGURE 308.2.1 UNOBSTRUCTED FORWARD REACH

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space complying with Section 305 and knee and toe clearance complying with Section 306 shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches maximum above the floor where the reach depth is 20 inches maximum. The high forward reach shall be 44 inches maximum above the floor where the reach depth over the obstruction is greater than 20 inches and not more than 25 inches maximum.

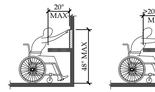


FIGURE 308.2.2 OBSTRUCTED HIGH FORWARD REACH

308.3 Side Reach.
308.3.1 Unobstructed. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the edge of the clear floor space is 10 inches maximum from the element, the high side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the floor.
EXCEPTIONS:
1. Existing elements that are not altered shall be permitted at 54 inches maximum above the floor.
2. Operable parts on fuel dispensers installed on existing curbs shall be permitted at 54 inches maximum above the floor.

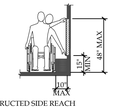


FIGURE 308.3.1 UNOBSTRUCTED SIDE REACH

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

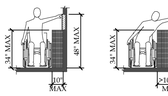


FIGURE 308.3.2 OBSTRUCTED HIGH SIDE REACH

309 OPERABLE PARTS

309.1 General. Operable parts required to be accessible shall comply with Section 309.
EXCEPTIONS:
1. Receptacle outlets serving a dedicated use.
2. Where two or more receptacle outlets are provided in a kitchen above a length of countertop that is uninterrupted by a sink or appliance, on receptacle outlet shall not be required to comply with this section.
3. In a kitchen, where a clear floor space for a parallel approach cannot be located at a countertop in a corner between appliances, receptacle outlets over the countertop shall not be required to comply with this section provided that the countertop area does not exceed 9 square feet maximum.
4. Floor receptacle outlets.
5. HVAC diffusers.
6. Controls mounted on ceiling fans.
7. Where redundant controls other than light switches are provided for a single element, one control in each space shall not be required to comply with this section.
8. Reset buttons and shut-offs serving appliances, piping and plumbing fixtures.
9. Electrical panelboards shall not be required to comply with Section 309.4.
10. Emergency aid devices, such as fire department hose connections, valve controls, gauges, police call boxes and annunciator panels shall not be required to comply with this section provided that they are used only for emergencies by emergency
309.2 Clear Floor Space. A clear floor space complying with Section 305 shall be provided.
309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 308.
309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds maximum.
EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5.0 pounds maximum.

CHAPTER 4 ACCESSIBLE ROUTES

401 GENERAL

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

402 ACCESSIBLE ROUTES

402.1 General. Accessible routes shall comply with Section 402.
402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doors and doorways, gates, ramps, curb ramps excluding the flared sides, blended transitions, elevators and platforms lifts. All components of an accessible route shall comply with the applicable portions of this standard.
402.3 Revolving doors, revolving gates and turnstiles. Revolving doors, revolving gates and turnstiles shall not be part of an accessible route.

403 WALKING SURFACES

403.1 General. Walking surfaces that are a part of an accessible route shall comply with Section 403.
403.2 Floor Surface. Floor surfaces shall comply with Section 302.
403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of a walking surface shall not be steeper than 1:48.
403.4 Changes in Level. Changes in level shall comply with Section 303.
403.5 Clear Width. The clear width of an accessible route shall comply with Section 403.5.1, 403.5.2, 403.5.3 or 403.5.4 as applicable.
403.5.1 General. The clear width of an interior accessible route shall be 36 inches minimum. The clear width of an exterior accessible route shall be 48 inches minimum.
EXCEPTIONS:
1. In new buildings and facilities, the clear width shall be permitted to be reduced to 32 inches minimum for lengths of 24 inches maximum provided the reduced-width segments are separated by segments that are 52 inches minimum in length and 36 inches minimum in width.
2. In existing buildings and facilities, the clear width shall be permitted to be reduced to 32 inches minimum for a length of 24 inches minimum in length and 36 inches minimum in width.
3. The clear width of an exterior accessible route located within seating areas shall be 36 inches minimum.
4. The clear width of an exterior ramp shall comply with Section 405.5.
403.5.2 Clear Width at 180 Degree Turn.
403.5.3.1 New buildings and facilities. In new buildings and facilities, where an accessible route makes a 90-degree turn the clear widths approaching the turn and leaving the turn shall be one of the following sets of dimensions:
1. Both legs of the turn shall be 40 inches minimum in width. The width of each leg of the turn shall be maintained for 28 inches minimum from the inner corner.
2. Where the interior corners of the turn are chamfered for 8 inches minimum along both walls, both legs of the turn shall be 36 inches minimum in width.
3. Where one leg of the turn is 42 inches minimum in width, the other shall be permitted to be 36 inches minimum in width.
4. Where one leg of the turn is 44 inches minimum in width, the other shall be permitted to be 36 inches minimum in width.
EXCEPTIONS:
1. Where an accessible route makes a 90-degree turn at doors, doorways and gates complying with Section 404.2.3, the route shall not be required to comply with this section.
2. Where an accessible route makes a 90-degree turn at an elevator or platform lift complying with Sections 407 through 410, the accessible route shall not be required to comply with this section.
403.5.3.2 Existing buildings and facilities. In existing buildings and facilities, where an accessible route makes a 90-degree turn the clear widths approaching the turn and leaving the turn shall be 36 inches minimum.
403.5.4 Passing Space.
403.5.4.1 New buildings and facilities. In new buildings and facilities, an accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either a 60-inch minimum by 60-inch minimum space, or an intersection of two walking surfaces that provide a T-shaped turning space complying with Section 304.3.2.1, provided the base and arms of the T-shaped space extend 52 inches minimum beyond the intersection.
403.5.4.2 Existing buildings and facilities. In existing buildings and facilities, an accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either a 60-inch minimum by 60-inch minimum space, or an intersection of two walking surfaces that provide a T-shaped turning space complying with Section 304.3.2, provided the base and arms of the T-shaped space extend 48 inches minimum beyond the intersection.
403.6 Handrails. Where handrails are required at the side of a corridor they shall comply with Sections 505.4 through 505.9.

404 DOORS AND DOORWAYS

404.1 General. Doors, doorways and gates that are part of an accessible route shall comply with Section 404.
EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.2.3, 404.2.6, 404.2.7, 404.2.8, 404.3.1, 404.3.2, 404.3.4, 404.3.7 and 404.3.8.
404.2 Manual doors, doorways and manual gates. Manual doors, doorways, and manual gates intended for user passage shall comply with Section 404.2.
404.2.1 Double-leaf doors and gates. At least one of the active leaves of doorways with two leaves shall comply with Sections 404.2.2 and 404.2.3.
404.2.2 Clear width. Doorways shall have a clear opening width of 32 inches minimum. Clear opening width of doorways with swinging doors shall be measured between the face of door and stop, with the door open 90 degrees. Openings more than 24 inches in depth at doors and doorways without doors shall provide a clear opening width of 36 inches minimum. There shall be no projections into the clear opening width lower than 34 inches above the floor. Projections into the clear opening width between 34 inches and 80 inches above the floor shall not exceed 4 inches.
EXCEPTIONS:
1. Door closers and door stops shall be permitted to be 78 inches minimum above the floor.
2. In alterations, a projection of ⅛ inch maximum into the required clear opening width shall be permitted for the latch side stop.

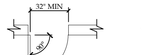


FIGURE 404.2.2 CLEAR WIDTH OF DOORWAYS

404.2.3 Maneuvering clearances. Minimum maneuvering clearances at doors and gates shall comply with Section 404.2.3. Maneuvering clearances shall include the full clear opening width of the doorway and the required latch-side or hinge-side clearance.
404.2.3.1 Floor surface. The floor surface within the maneuvering clearances shall have a slope not steeper than 1:48 and shall comply with Section 302.
404.2.3.2 Swinging doors and gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.3.2.

TABLE 404.2.3.2 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

Approach Direction	Type of Use		Minimum Maneuvering Clearances	
	Door or Gate Side		Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)
From front	Pull		60 inches	18 inches
From front	Push		52 inches[3]	0 inches[3]
From hinge side	Pull		60 inches	36 inches
From hinge side	Pull		54 inches	42 inches
From hinge side	Push		42 inches[1]	22 inches[1]
From latch side	Pull		48 inches[2]	24 inches
From latch side	Push		42 inches[2]	24 inches

1 Add 6 inches if closer and latch provided.
2 Add 6 inches if closer provided.
3 Add 12 inches beyond latch if closer and latch provided.
4 Beyond hinge side.

5 In existing buildings and facilities, the dimension perpendicular to the door or gate for the front direction on the push side shall be 48 inches minimum.

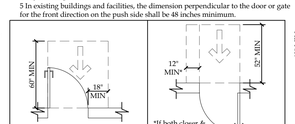


FIGURE 404.2.3.2 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

404.2.3.3 Sliding and Folding Doors. Sliding doors and folding doors shall have maneuvering clearances complying with Table 404.2.3.3.

TABLE 404.2.3.3-MANEUVERING CLEARANCES AT SLIDING AND FOLDING DOORS

Approach Direction	Minimum Maneuvering Clearances	
	Perpendicular to Doorway	Parallel to Doorway (beyond stop or latch side unless noted)
From front	52 inches[2]	0 inches
From non-latch side	42 inches	22 inches[1]
From latch side	42 inches	24 inches

1 Beyond pocket or hinge side.
2 In existing buildings and facilities the dimension perpendicular to the doorway for the front direction shall be 48 inches minimum.

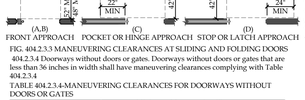


FIG. 404.2.3.3 MANEUVERING CLEARANCES AT SLIDING AND FOLDING DOORS

404.2.3.4 Doorways without doors or gates. Doorways without doors or gates that are less than 36 inches in width shall have maneuvering clearances complying with Table 404.2.3.4

TABLE 404.2.3.4-MANEUVERING CLEARANCES FOR DOORWAYS WITHOUT DOORS OR GATES

Approach Direction	Minimum Maneuvering Clearances Perpendicular to Doorway
From front	52 inches[1]
From side	42 inches

1 In existing buildings and facilities the dimension perpendicular to the doorway for the front direction shall be 48 inches minimum.

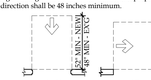


FIG. 404.2.3.4 MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS

404.2.3.5 Recessed doors and gates. Where any obstruction within 18 inches of the latch side of a doorway projects more than 8 inches beyond the face of the door or gate, measured perpendicular to the face of the door or gate, maneuvering clearances for a forward approach shall be provided .
404.2.4 Thresholds. If provided, thresholds at doorways shall be 1/2 inch maximum in height. Raised thresholds and changes in level at doorways shall comply with Sections 302 and 303.
EXCEPTION: An existing or altered threshold shall be permitted to be 3/4 inch maximum in height provided that the threshold has a beveled edge on each side with a maximum slope of 1:2 for the height exceeding 1/4 inch.

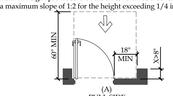


FIG. 404.2.3.5 MANEUVERING CLEARANCE AT RECESSED DOORS

404.2.5 Two doors or gates in series. Distance between two hinged or pivoted doors or gates in series shall be 48 inches (1220 mm) minimum plus the width of any door or gate swinging into the space. The space between the doors and gates shall provide a turning space.

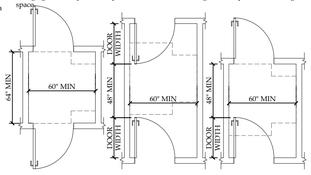


FIG. 404.2.5 MANEUVERING CLEARANCE IN A SERIES

404.2.6 Door and gate hardware. Handles, pulls, latches, locks and other operable parts on accessible doors and gates shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching, or twisting of the wrist to operate. The operational force to retract latches or disengage devices that hold the door or gate in a closed position shall be as follows:
1. Hardware operation by a forward, pushing or pulling motion: 15 pounds maximum.
2. Hardware operation by a rotational motion: 28 inch-pounds maximum.
404.2.6.1 Hardware height. Operable parts of such hardware shall be 34 inches minimum and 48 inches maximum above the floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.
404.2.7 Closing speed. Door and gate closing speed shall comply with 404.2.7.
404.2.7.1 Door and gate closers. Door and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door or gate to an open position of 12 degrees shall be 5 seconds minimum.
404.2.7.2 Spring hinges. Door and gate spring hinges shall be adjusted so that from an open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.
404.2.8 Door and gate opening force. Fire doors or gates required to be equipped with panic hardware, break-away features or other factors requiring higher opening force for safety reasons shall have the minimum opening force allowable in scoping provisions adopted by the appropriate administrative authority. For other doors or gates, the force for pushing or pulling open doors or gates shall be as follows:
1. Interior hinged door: 5.0 pounds maximum.
2. Sliding or folding door: 5.0 pounds maximum.
EXCEPTION: The force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position shall not apply to panic hardware, delayed egress devices or fire-rated hardware.
404.2.9 Door and gate surface. Door and gate surfaces within 10 inches of the floor, measured vertically, shall be smooth surfaces on the push side extending the full width of the door or gate. Door and gate hardware or any other obstruction or protrusion shall not be mounted in or not extend into the area within 10 inches of the floor. Parts creating horizontal or vertical joints in such surface shall be within 1/16 inch of the same plane as the other. Cavities created by added kick plates shall be capped.
EXCEPTIONS:
1. Sliding doors shall not be required to comply with this section.
2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at no less than 60 degrees from the horizontal shall not be required to comply with the 10-inch bottom rail height requirement.
3. Doors and gates that do not extend to within 10 inches of the floor shall not be required to comply with this section.
4. The installation of kick plates on existing doors and gates without a smooth surface within 10 inches of the floor shall be permitted. The kick plates shall extend to 10 inches above the floor and no more than 1 inch from the sides and bottom of the door. Cavities created by such kickplates shall be capped.
404.2.10 Vision lites. Doors, gates and sidelites adjacent to doors or gates containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one panel on either the door, gate or an adjacent sidelite 43 inches maximum above the floor.
EXCEPTION: Vision lites with the lowest part more than 66 inches (1675 mm) above the floor shall not be required to comply with this section.
404.3 Automatic and power-assisted doors and gates. Automatic doors and gates shall comply with Section 404.3. Full powered automatic doors and gates shall comply with ANSI/BHMA A 156.10 listed in Section 106.2.7. Power-assist doors and gates and low-energy automatic doors and gates shall comply with ANSI/BHMA A 156.19 listed in Section 106.2.6.
404.3.1 Public entrances. Where an automatic door or gate is required at a building or facility public entrance, it shall be a full powered automatic or a low-energy automatic door or gate.
404.3.2 Vestibules. Where an entrance includes a vestibule, at least one exterior door or gate and one interior door or gate in the vestibule shall have the same type of automatic door or gate opener.
404.3.3 Clear width. Doorways shall have a clear opening width of 32 inches in power-on and power-off mode. The minimum clear opening width for automatic door systems shall be based on the clear opening width provided with all leafs in the open position.
404.3.4 Maneuvering clearances. Maneuvering clearances at power-assisted doors and gates shall comply with Section 404.2.3. Maneuvering clearances complying with Section 404.2.3 shall be provided on the egress side of low-energy automatic and full power automatic doors and gates that serve as part of an accessible means of egress.
EXCEPTIONS:
1. Low-energy automatic and full power automatic doors and gates that have standby power or battery back-up shall not be required to comply with this section.
2. Low-energy automatic and full power automatic doors and gates that remain in the powerroff condition shall not be required to comply with this section.
3. Full power automatic sliding doors and gates that include a break-away feature shall not be required to comply with this section.
404.3.5 Thresholds. Thresholds and changes in level at doorways shall comply with Section 404.2.4.
404.3.6 Two doors or gates in series. Doors or gates in series shall comply with Section 404.2.5.
EXCEPTION: Where both doors or gates in a series are low-energy automatic or full power automatic doors or gates, the two doors or gates in a series shall not be required to provide a turning space between the doors or gates.
404.3.7 Controls. Manually operated controls shall comply with Section 309. The clear floor space adjacent to the controls shall be located beyond the arc of the door or gate swings.
404.3.8 Door and gate hardware. Handles, pulls, latches, locks and other operable parts shall comply with Section 404.2.6.
404.3.9 Break out opening. Where full power automatic sliding doors and gates are equipped with a break out feature, the clear break out opening shall be 32 inches minimum when operated in emergency mode.

405 RAMPS

405.1 General. Ramps along accessible routes shall comply with Section 405.
EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with this section.
405.2 Slope. Ramp runs shall have a running slope greater than 1:20 and not steeper than 1:12.
EXCEPTION: In existing buildings or facilities, ramps shall be permitted to have slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.
TABLE 405.2-ALLOWABLE RAMP DIMENSIONS FOR CONSTRUCTION IN EXISTING SITES, BUILDINGS AND FACILITIES

Slope[1]	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches
Steeper than 1:12 but not steeper than 1:10	6 inches

1 A slope steeper than 1:8 shall not be permitted.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.
405.4 Floor Surfaces. Floor surfaces of ramp runs shall comply with Section 302.
405.5 Clear Width. The clear width of a ramp run shall be 36 inches minimum. Handrails and handrail supports that are provided on the ramp run shall not project into the required clear width of the ramp run.
EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.
405.6 Rise. The rise for any ramp run shall be 30 inches maximum.
405.7 Landings. Ramps shall have landings at the bottom and top of each ramp run. Landings shall comply with Section 405.7.
405.7.1 Slope. Landings shall have a slope not steeper than 1:48 and shall comply with Section 302.
405.7.2 Width. Clear width of landings shall be at least as wide as the widest ramp run leading to the landing.
405.7.3 Length. Landings shall have a clear length of 60 inches minimum.
405.7.4 Change in direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches minimum by 60 inches minimum.

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

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

603.5 Diaper Changing Tables. Diaper changing tables shall comply with Sections 309 and 902.

603.6 Operable Parts. Operable parts on towel dispensers and hand dryers serving lavatories complying with Section 606 shall comply with Table 603.6.

TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT

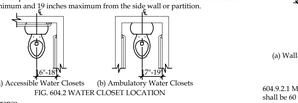
Max. Reach Depth	0.5"	2"	5"	6"	9"	11"
Max. Reach Height	48"	46"	42"	40"	36"	34"

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.1 General. Water closets and toilet compartments shall comply with Section 604. Compartments containing more than one plumbing fixture shall comply with Section 603. Wheelchair accessible compartments shall comply with Section 604.9. Ambulatory accessible compartments shall comply with Section 604.10.

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

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



(a) Accessible Water Closets (b) Ambulatory Water Closets

FIG. 604.2 WATER CLOSET LOCATION

604.3 Clearance

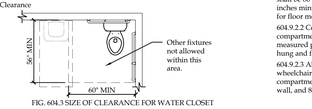


FIG. 604.3 SIZE OF CLEARANCE FOR WATER CLOSET

604.3.1 Clearance width. Clearance around a water closet shall be 60 inches minimum in width, measured perpendicular from the sidewall.

604.3.2 Clearance Depth. Clearance around the water closet shall be 56 inches minimum in depth, measured perpendicularly from the rear wall.

604.3.3 Clearance Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, accessible routes, clear floor space at other fixtures and the turning space. No other fixtures or obstructions shall be within the required water closet clearance.

604.4 Height. The height of water closet seats shall be 17 inches minimum and 19 inches maximum above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:

1. A water closet which is adjustable in height by the user is permitted provided that at least one adjustment setting provides a seat within the reach range specified in this section.
2. A water closet in a toilet room for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with this section.

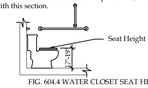


FIG. 604.4 WATER CLOSET SEAT HEIGHT

604.5 Grab Bars. Grab bars for water closets shall comply with Section 609 and shall be provided in accordance with Sections 604.5.1 and 604.5.2. Grab bars shall be provided on the rear wall and on the side wall closest to the water closet.

EXCEPTIONS:

1. Grab bars are not required to be installed in a toilet room for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 604.5.
2. In detention or correction facilities, grab bars are not required to be installed in housing or holding cells or rooms that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Fixed Side-Wall Grab Bars. Fixed side-wall grab bars shall include a horizontal bar complying with Section 604.5.1.1 and a vertical grab bar complying with Section 604.5.1.2. The vertical grab bar at water closets primarily for children's use shall comply with Section 609.4.2.

604.5.1.1 Horizontal grab bar. A horizontal grab bar 42 inches minimum in length shall be located 12 inches maximum from the rear wall and extend 54 inches minimum from the rear wall.

604.5.1.2 Vertical grab bar. A vertical grab bar 18 inches minimum in length shall be mounted with the bottom of the bar located 39 inches minimum and 41 inches maximum above the floor, and with the center line of the bar located 39 inches minimum and 41 inches maximum from the rear wall.

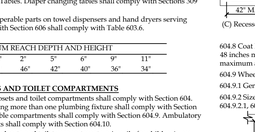


FIG. 604.5.1 SIDE WALL GRAB BAR FOR WATER CLOSET

604.5.2 Rear Wall Grab Bars. The rear wall grab bar shall

1. Be 36 inches minimum in length,
2. Be located 6 inches maximum from the side wall, and
3. Extend 42 inches minimum from the side wall.

EXCEPTIONS:

1. The rear grab bar shall be permitted to be 24 inches minimum in length, centered on the water closet, where wall space does not permit a grab bar 36 inches minimum in length due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, that grab bar shall be permitted to be split or shifted to the open side of the toilet area.

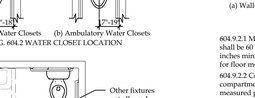


FIG. 604.5.2 REAR WALL GRAB BAR FOR WATER CLOSET

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309. Flush controls shall be located on the open side of the water closet.

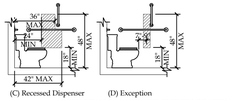
EXCEPTION: In ambulatory accessible compartments complying with Section 604.10, flush controls shall be permitted to be located on either side of the water closet.

604.7 Dispensers. Toilet paper dispensers shall comply with Section 309.4 and 609.3. Dispensers shall not be of a type that control delivery, or do not allow continuous paper flow.

604.7.1 Location. Where the dispenser is located above the grab bar, the outlet of the dispenser shall be located within an area 24 inches minimum and 36 inches maximum from the rear wall. Where the dispenser is located below the grab bar, the outlet of the dispenser shall be located within an area 24 inches minimum and 42 inches maximum from the rear wall. The outlet of the dispenser shall be located 18 inches minimum and 48 inches maximum above the floor.

EXCEPTION: Toilet paper dispensers that accommodate a maximum of 2 toilet paper rolls of not more than 5-inch diameter each shall be permitted to be located 7 inches minimum and 9 inches maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches minimum and 48 inches maximum above the floor.

(A) Protruding Dispenser Below Grab Bar (B) Protruding Dispenser Above Grab Bar



(C) Recessed Dispenser (D) Exception

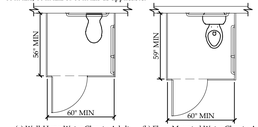
FIGURE 604.7.1 DISPENSER OUTLET LOCATION

604.8 Coat Hooks and Shelves. Coat hooks provided within toilet compartments shall be 48 inches maximum above the floor. Shelves shall be 40 inches minimum and 48 inches maximum above the floor.

604.9 Wheelchair Accessible Compartments.

604.9.1 General. Wheelchair accessible compartments shall comply with Section 604.9.

604.9.2 Size. Wheelchair accessible toilet compartments shall comply with Section 604.9.2.1, 604.9.2.2 or 604.9.2.3 as applicable.



(a) Wall-Hung Water Closet - Adult (b) Floor-Mounted Water Closet - Adult Wall-Hung & Floor Mounted - Children

FIG. 604.9.2 WHEELCHAIR TOILET COMPARTMENTS

604.9.2.1 Minimum area. The minimum area of a wheelchair accessible compartment shall be 60 inches minimum in width measured perpendicular to the side wall, and 56 inches minimum in depth for wall hung water closets, and 59 inches minimum in depth for floor mounted water closets measured perpendicular to the rear wall.

604.9.2.2 Compartment for children's use. The minimum area of a wheelchair accessible compartment primarily for children's use shall be 60 inches minimum in width measured perpendicular to the side wall, and 59 inches minimum in depth for wall hung and floor mounted water closets measured perpendicular to the rear wall.

604.9.2.3 Alternate wheelchair accessible toilet compartments. Where an alternate wheelchair accessible toilet compartment is provided, the minimum area of the compartment shall be 60 inches minimum in width, measured perpendicular to the side wall, and 84 inches minimum in depth, measured perpendicular to the rear wall.

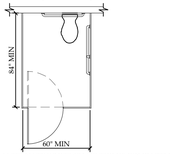


FIG. 604.9.2.3 ALTERNATE WHEELCHAIR TOILET COMPARTMENT

604.9.3 Doors. Wheelchair accessible toilet compartment doors, including door hardware, shall comply with Section 404. The door shall be self-closing. A door pull complying with Section 404.2.6 shall be placed on both sides of the door near the latch. Wheelchair accessible toilet compartment doors shall not swing into the required minimum area of the compartment.

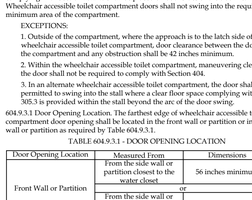
EXCEPTIONS:

1. Outside of the compartment, where the approach is to the latch side of the wheelchair accessible toilet compartment, door clearance between the door side of the compartment and any obstruction shall be 42 inches minimum.
2. Within the wheelchair accessible toilet compartment, maneuvering clearances at the door shall not be required to comply with Section 404.
3. In an alternate wheelchair accessible toilet compartment, the door shall be permitted to swing into the stall where a clear floor space complying with Section 305.3 is provided within the stall beyond the arc of the door swing.

604.9.3.1 Door Opening Location. The farthest edge of wheelchair accessible toilet compartment door opening shall be located in the front wall or partition or in the side wall or partition as required by Table 604.9.3.1.

TABLE 604.9.3.1 - DOOR OPENING LOCATION

Door Opening Location	Measured From	Dimensions
Front Wall or Partition	From the side wall or partition closest to the water closet	56 inches minimum
	or	
	From the side wall or partition farthest from the water closet	4 inches maximum
	From the rear wall	52 inches minimum
Side Wall or Partition Wall-Hung Water Closet	or	
	From the front wall or partition	4 inches maximum
	or	
	From the rear wall	55 inches minimum
Side Wall or Partition Floor-Mounted Water Closet	or	
	From the front wall or partition	4 inches maximum

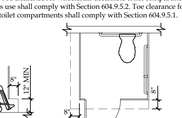


(a) Front partition (b) Side wall or partition

FIG. 604.9.3.1 - WHEELCHAIR ACCESSIBLE COMPARTMENT DOOR OPENINGS

604.9.4 Approach. Wheelchair accessible compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.5 Toe Clearance. Toe clearance for wheelchair accessible toilet compartments primarily for children's use shall comply with Section 604.9.5.2. Toe clearance for other wheelchair accessible toilet compartments shall comply with Section 604.9.5.1.



(A) Elevation (B) Plan

FIG. 604.9.5 - TOE CLEARANCE

604.9.5.1 Toe clearance at wheelchair accessible toilet compartments. The front partition and at least one side partition of wheelchair accessible toilet compartments shall provide a toe clearance of 12 inches minimum above the floor and extending 8 inches beyond the compartment side face of the partition, exclusive of partition support members.

EXCEPTIONS:

1. Toe clearance at the front partition is not required in a wheelchair accessible toilet compartment greater than 64 inches in depth with a wall-hung water closet, or greater than 67 inches in depth with a floor-mounted water closet.
2. Toe clearance at the side partition is not required in a wheelchair accessible toilet compartment greater than 68 inches in width.

604.9.5.2 Toe clearance at wheelchair accessible toilet compartments for children's use. The front partition and at least one side partition of wheelchair accessible toilet compartments primarily for children's use shall provide a toe clearance of 12 inches minimum above the floor and extending 8 inches beyond the wheelchair accessible toilet compartment side face of the partition, exclusive of partition support members.

EXCEPTIONS:

1. Toe clearance at the front partition is not required in a wheelchair accessible toilet compartment greater than 67 inches in depth.
2. Toe clearance at the side partition is not required in a wheelchair accessible toilet compartment greater than 68 inches in width.

604.9.6 Grab Bars. Grab bars shall comply with Section 609. Side wall grab bars complying with Section 604.5.1 located on the wall closest to the water closet, and a rear wall grab bar complying with Section 604.5.2, shall be provided.

604.10 Ambulatory Accessible Toilet Compartments.

604.10.1 General. Ambulatory accessible toilet compartments shall comply with Section 604.10.

604.10.2 Size. The minimum area of an ambulatory accessible toilet compartment shall be 60 inches minimum in depth and a width of 35 inches and 37 inches maximum.

604.10.3 Doors. Ambulatory accessible toilet compartment doors, including door hardware, shall comply with Section 404. The door shall be self-closing. A door pull complying with Section 404.2.6 shall be placed on both sides of the door near the latch. Compartment doors shall not swing into the required minimum area of the compartment.

EXCEPTIONS:

1. Outside of the ambulatory accessible toilet compartment, where the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches minimum.
2. Within the ambulatory accessible toilet compartment, maneuvering clearances at the door shall not be required to comply with Section 404.

604.10.4 Grab Bars. Grab bars shall comply with Section 609. Side wall grab bars complying with Section 604.5.1 shall be provided on both sides of the compartment.

604.11 Water Closets and Toilet Compartments for Children's Use.

604.11.1 General. Water closets and wheelchair and ambulatory accessible toilet compartments primarily for children's use shall comply with Section 604.11.

604.11.2 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition. Water closets located in ambulatory accessible toilet compartments specified in Section 604.10 shall be located as specified in Section 604.2.

604.11.3 Clearance. A clearance around the water closet complying with Section 604.3 shall be provided.

604.11.4 Height. The height of water closet seats shall be 11 inches minimum and 17 inches maximum above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.11.5 Grab Bars. Grab bars for water closets shall comply with Section 604.5.

604.11.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Sections 309.2 and 309.4 and shall be installed 36 inches maximum above the floor. Flush controls shall be located on the open side of the water closet.

EXCEPTION: In ambulatory accessible toilet compartments complying with Section 604.10, flush controls shall be permitted to be located on either side of the water closet.

604.11.7 Dispensers. Toilet paper dispensers shall comply with Section 309.4. Dispensers shall not be of a type that control delivery or do not allow continuous paper flow.

604.11.7.1 Location. The outlet of dispensers shall be located within an area 24 inches minimum and 42 inches maximum from the rear wall. The outlet of the dispenser shall be 14 inches minimum and 19 inches maximum above the floor.

EXCEPTION: Toilet paper dispensers that accommodate a maximum of 2 toilet paper rolls of not more than 5-inch diameter each shall be permitted to be located 7 inches minimum and 9 inches maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches minimum and 19 inches maximum above the floor.

604.11.8 Wheelchair and ambulatory accessible toilet compartments shall comply with Sections 604.9 and 604.10, as applicable.

605 URINALS

605.1 General. Urinals shall comply with Section 605.

605.2 Height and Depth. Urinals shall be of the stall type or shall be of the wall hung type with the rim at 17 inches maximum above the floor. Urinals shall be 13 ½ inches minimum in depth measured from the outer face of the urinal rim to the finished wall surface.

605.3 Clear Floor Space. A clear floor space positioned for forward approach, shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309.

606 LAVATORIES AND SINKS

606.1 General. Lavatories and sinks shall comply with Section 606.

606.2 Clear Floor Space. A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be considered in determining knee and toe clearances.

EXCEPTIONS:

1. A clear floor space providing a parallel approach shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided.
2. The requirement for knee and toe clearance shall not apply to a lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use.
3. A knee clearance of 24 inches minimum above the floor shall be permitted at lavatories and sinks used primarily by children ages 6 through 12 where higher of the rim or counter surface is 31 inches maximum above the floor.
4. A clear floor space providing a parallel approach shall be permitted at lavatories and sinks used primarily by children ages 5 and younger.
5. The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.
6. A clear floor space providing a parallel approach shall be permitted at wet bars.

606.3 Height. The front of lavatories and sinks shall be 34 inches maximum above the floor, measured to the higher of the rim or counter surface.

EXCEPTION: At lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with Section 606.3.

FIGURE 606.3 HEIGHT OF LAVATORIES AND SINKS

606.4 Faucets. Faucets shall comply with Section 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

EXCEPTION: Automatic faucets shall not be required to comply with Section 309 provided that the reach depth to activate the faucets and the reach depth to the water flow is 11 inches maximum.

606.5 Lavatories with Enhanced Reach Range. Where enhanced reach range is required at lavatories, faucets and soap dispenser controls shall have a reach depth of 11 inches maximum. Water and soap outlets shall be provided with a reach depth of 11 inches maximum. The lavatory shall be 34 inches maximum above the floor, measured to the higher of the rim or counter surface.

EXCEPTIONS:

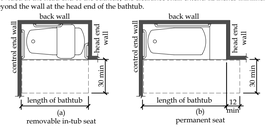
1. Enhanced reach range faucets shall not be required on lavatories provided with automatic faucets where reach depth to activate the faucets and the reach depth to the water outlet is 11 inches maximum.
2. Enhanced reach range soap dispensers shall not be required on lavatories provided with automatic dispensers where the reach depth to activate the soap dispensers and the reach depth to the soap outlet is 11 inches maximum.

606.6 Exposed Pipes and Surfaces. Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607 BATHTUBS

607.1 General. Bathtubs shall comply with Section 607.

607.2 Clearance. A clearance in front of bathtubs extending the length of the bathtub and 30 inches minimum in depth shall be provided. Where a permanent seat is provided at the head end of the bathtub, the clearance shall be measured 12 inches minimum beyond the wall at the head end of the bathtub.



(a) (b)

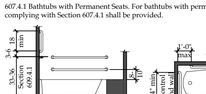
FIGURE 607.2 CLEARANCE FOR BATHTUBS

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with Section 610.

607.4 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 607.4.1 or 607.4.2.

EXCEPTION: Grab bars shall not be required to be installed in a bathing facility for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 607.4.

607.4.1 Bathtubs with Permanent Seats. For bathtubs with permanent seats, grab bars complying with Section 607.4.1 shall be provided.



(a) Elevation (b) Plan

FIG. 607.4.1 GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS

607.4.1.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and the other located 8 inches minimum and 10 inches maximum above the rim of the bathtub. Each grab bar shall be located 15 inches maximum from the head end wall and extend to 12 inches maximum from the control end wall.

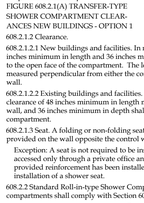
607.4.1.2 Control End Wall. Control end wall grab bars shall comply with Section 607.4.1.2.

EXCEPTION: An L-shaped continuous grab bar of equivalent dimensions and positioning shall be permitted to serve the function of separate vertical and horizontal grab bars.

607.4.1.2.1 Horizontal Grab Bar. A horizontal grab bar 24 inches minimum in length shall be provided on the control end wall beginning near the front edge of the bathtub and extending toward the inside corner of the bathtub.

607.4.1.2.2 Vertical Grab Bar. A vertical grab bar 18 inches minimum in length shall be provided on the control end wall 3 inches minimum and 6 inches maximum above the horizontal grab bar, and 6 inches maximum inward from the front edge of the bathtub.

607.4.2 Bathtubs with Removable Seats. For bathtubs with removable seats, grab bars complying with Section 607.4.2 shall be provided.



(a) Elevation (b) Plan

FIG. 607.4.2 GRAB BARS FOR BATHTUBS WITHOUT PERMANENT SEATS

607.4.2.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and the other located 8 inches minimum and 10 inches maximum above the rim of the bathtub. Each grab bar shall be 24 inches minimum in length, located 24 inches maximum from the head end wall and extend to 12 inches maximum from the control end wall.

607.4.2.2 Control End Wall. Control end wall grab bars shall comply with Section 607.4.1.2.

607.4.2.3 Head End Wall. A horizontal grab bar 12 inches minimum in length shall be provided on the head end wall at the front edge of the bathtub.

607.5 Controls. Controls, other than drain stoppers, shall be provided on an end wall, located between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with Section 309.4.

FIG. 607.5 LOCATION OF BATHTUB CONTROLS

607.6 Hand Shower. A hand shower with a hose 59 inches minimum in length, that can be used as both a fixed shower head and as a hand shower, shall be provided. The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower mounted on a vertical bar shall be installed so as to not obstruct the use of grab bars.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the bathtub.

607.8 Water Temperature. Bathtubs shall deliver water that is 120°F maximum.

608 SHOWER COMPARTMENTS

608.1 General. Accessible shower compartments shall comply with Section 608.

608.2 Size, clearance and seat. Shower compartments shall have sizes, clearances and seats complying with Section 608.2.

608.2.1 Transfer-type Shower Compartments. Transfer-type shower compartments shall comply with Section 608.2.1.

608.2.1.1 Size. Transfer-type shower compartments shall have a clear inside dimension of 36 inches (915 mm) minimum by 36 inches in depth, measured at the center point of opposing sides. An entry 36 inches minimum in width shall be provided.

FIGURE 608.2.1(A) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES NEW BUILDINGS - OPTION 1

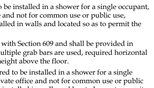


FIGURE 608.2.1(B) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES NEW BUILDINGS - OPTION 2

608.2.1.2 Clearance.

608.2.1.2.1 New buildings and facilities. In new buildings and facilities, a clearance of 52 inches minimum in length and 36 inches minimum in depth shall be provided adjacent to the open face of the compartment. The length of the clear floor space shall be measured perpendicular from either the control wall or from 4 inches behind the control wall.

608.2.1.2.2 Existing buildings and facilities. In existing buildings and facilities, a clearance of 48 inches minimum in length measured perpendicular from the control wall, and 36 inches minimum in depth shall be provided adjacent to the open face of the compartment.

608.2.1.3 Seat. A folding or non-folding seat complying with Section 610 shall be provided on the wall opposite the control wall.

Exception: A seat is not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.

608.2.2 Standard Roll-in-type Shower Compartments. Standard roll-in-type shower compartments shall comply with Section 608.2.2.

FIG. 608.2.2 STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

Note: inside finished dimensions measured at the center points of opposing sides

608.2.2.1 Size. Standard roll-in-type shower compartments shall have a clear inside dimension of 60 inches minimum in width and 30 inches minimum in depth, measured at the center point of opposing sides. An entry 60 inches minimum in width shall be provided.

608.2.2.2 Clearance. A clearance of 60 inches minimum in length adjacent to the 60-inch width of the open face of the shower compartment, and 30 inches minimum in depth, shall be provided.

EXCEPTION: A lavatory complying with Section 606 shall be permitted at the end of the clearance opposite the seat.

608.2.2.3 Seat. A folding seat complying with Section 610 shall be provided on an end wall.

EXCEPTIONS:

1. A seat is not required to be installed in a shower for a single occupant accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.
2. A fixed shower head is permitted where the seat does not overlap the minimum clear inside dimension required by Section 608.2.2.1.

608.2.3 Alternate Roll-in-type Shower Compartments. Alternate roll-in-type shower compartments shall comply with Section 608.2.3.

FIG. 608.2.3 ALTERNATE ROLL-IN-TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

608.2.3.1 Size. Alternate roll-in shower compartments shall have a clear inside dimension of 60 inches minimum in width, and 36 inches in depth, measured at the center point of opposing sides. An entry 36 inches minimum in width shall be provided at one end of the 60-inch width of the compartment. A seat wall, 24 inches minimum and 36 inches maximum in length, shall be provided on the entry side of the compartment.

608.2.3.2 Seat. A folding seat complying with Section 610 shall be provided on the seat wall opposite the back wall.

EXCEPTION: A seat is not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.

608.3 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor.

EXCEPTION: Grab bars are not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3.

608.3.1 Transfer-Type Showers. Grab bars for transfer type showers shall comply with Section 608.3.1.

FIG. 608.3.1 GRAB BARS IN TRANSFER-TYPE SHOWERS

608.3.1.1 Horizontal Grab Bars. Horizontal grab bars shall be provided across the control wall and on the back wall to a point 18 inches from the control wall.

608.3.1.2 Vertical Grab Bar. A vertical grab bar 18 inches minimum in length shall be provided on the control end wall 3 inches minimum and 6 inches maximum above the horizontal grab bar, and 4 inches maximum inward from the front edge of the shower.

608.3.2 Standard Roll-in-Type Showers. Grab bars in standard roll-in showers shall comply with Sections 608.3.2.1 through 608.3.2.3.

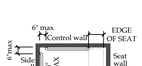


FIG. 608.3.2(B) GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER PLAN

608.3.2.1 Back-wall grab bar. In standard roll-in type showers, a grab bar shall be provided on the back wall beginning at the edge of the seat. The grab bars shall not be provided above the seat. The back-wall grab bar shall extend the length of the wall and extend within 6 inches maximum from the adjacent side wall opposite the seat.

EXCEPTIONS:

1. The back wall grab bar shall not be required to exceed 48 inches in length.
2. The back-wall grab bar is not required to extend within 6 inches of the adjacent side wall opposite the seat if it would require the grab bar length to exceed 48 inches in length.

608.3.2.2 Side-wall grab bars. Where a side wall is provided opposite the seat within 72 inches of the seat wall, a grab bar shall be provided on the side-wall opposite the seat. The side wall grab bar shall extend the length of the wall and extend within 6 inches maximum from the adjacent back wall.

EXCEPTION: The side wall grab bar shall not be required to exceed 30 inches in length.

608.3.3 Alternate Roll-in-Type Showers. In alternate roll-in type showers, grab bars shall be provided on the back wall and the end wall adjacent to the seat. Grab bars shall not be provided above the seat. Grab bars shall be 6 inches maximum from the adjacent wall.

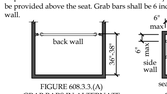


FIGURE 608.3.3.(A) GRAB BARS IN ALTERNATE ROLL-IN-TYPE SHOWER - ELEVATION

FIG. 608.3.3(B) GRAB BARS IN ALTERNATE ROLL-IN-TYPE SHOWER - PLAN

608.4.1 Transfer-Type Showers. In transfer-type showers, the controls and hand shower shall be located:

1. On the control wall opposite the seat.
2. At a height of 38 inches minimum and 48 inches maximum above the shower floor, and
3. 15 inches maximum, from the centerline of the control wall toward the shower opening.

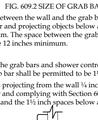


FIG. 608.4.1 TRANSFER-TYPE SHOWER CONTROLS AND HANDSHOWER LOCATION

608.4.2 Standard Roll-in Showers. In standard roll-in showers, the controls and hand shower shall be located above the seat. Controls and hand showers shall be located according to the following:

1. On the back wall,
2. At a height of 38 inches minimum and 48 inches maximum above the shower floor and
3. 16 inches minimum and 27 inches maximum from the wall behind the seat.

FIG. 608.4.2 STANDARD ROLL-IN-TYPE SHOWER CONTROL AND HANDSHOWER LOCATION

608.4.3 Alternate Roll-in Showers. In alternate roll-in showers, the controls and hand shower shall be located

1. At a height of 38 inches minimum and 48 inches maximum above the shower floor, and
2. Where the controls and hand shower are located on the end wall adjacent to the seat, the controls and hand shower shall be 16 inches minimum and 27 inches maximum from the wall behind the seat wall, or
3. Where the controls and hand shower located on the back wall opposite the seat, the controls and hand shower shall be located within 15 inches maximum from the centerline of the seat toward the transfer space.

(A) End Wall (Elevation) (B) Control Wall (Elevation)

FIG. 608.4.3 ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION

608.5 Hand Showers. A hand shower with a hose 59 inches minimum in length, that can be used both as a fixed shower head and as a hand shower, shall be provided. The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower mounted on a vertical bar shall be installed so as to not obstruct the use of grab bars. A means to hold the hand shower wand while in the on or off position shall be located at a height of 38 inches minimum and 48 inches maximum above the shower finish floor.

EXCEPTION: In other than Accessible units and Type A units, a fixed shower head located 48 inches maximum above the shower floor shall be permitted in lieu of a hand shower.

608.6 Thresholds. Thresholds in roll-in-type shower compartments shall be 1/2 inch maximum in height in accordance with Section 303. In transfer-type shower compartments, thresholds ½ inch maximum in height shall be beveled, rounded, or vertical.

EXCEPTION: In existing facilities, in transfer-type shower compartments where provision of a threshold 1/2 inch in height would disturb the structural reinforcement of the floor slab, a threshold 2 inches maximum in height shall be permitted.

608.7 Shower Enclosures. Shower compartment enclosures for shower compartments shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats.

608.8 Water Temperature. Showers shall deliver water that is 120°F (49°C) maximum.

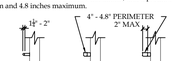
609 GRAB BARS

609.1 General. Grab bars in toilet or bathing facilities shall comply with Section 609.

609.2 Cross Section. Grab bars shall have a cross section complying with Section 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with a circular cross section shall have an outside diameter of 1¼ inch minimum and 2 inches maximum.

609.2.2 Noncircular Cross Section. Grab bars with a noncircular cross section shall have a cross section dimension of 2 inches maximum, and a perimeter dimension of 4 inches minimum and 4.8 inches maximum.



(A) Circular (B) Noncircular (C) Noncircular

FIG. 609.2 SIZE OF GRAB BARS

609.3 Spacing. The space between the wall and the grab bar shall be 1½ inches. The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1½ inches minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches minimum.

EXCEPTIONS:

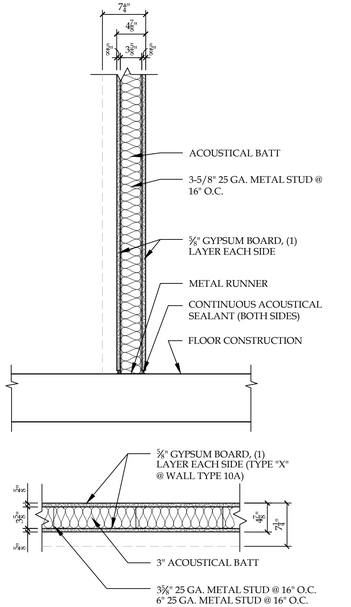
1. The space between the grab bars and shower controls, shower fittings, and other grab bars above the grab bar shall be permitted to be 1½ inches minimum.
2. Recessed dispensers projecting from the wall ¼ inch maximum measured from the face of the dispenser and complying with Section 604.7 shall be permitted within the 12-inch space above and the 1½ inch spaces below and at the ends of the grab bar.

FIG. 609.3 SPACING OF GRAB BARS

609.4 Position of Grab Bars.

609.4.1 General. Grab bars shall be installed in a horizontal position, 33 inches minimum and 36 inches maximum above the floor measured to the top of the gripping surface or shall be installed as required by Items 1 through 3.

1. The lower grab bar on the back wall of a bathtub shall comply with Section 607.4.1.1 or 607.4.2.1.

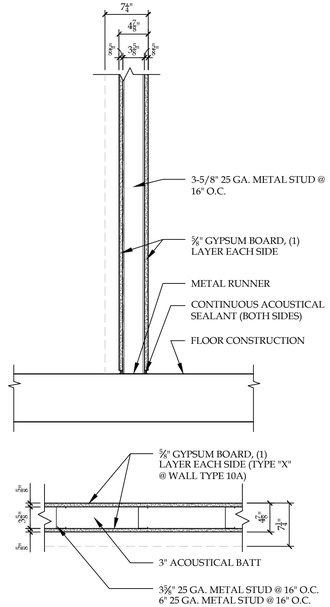


1 3-5/8" ACOUSTICAL METAL STUD PARTITION

USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS

1A 6" ACOUSTICAL METAL STUD PARTITION

USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS

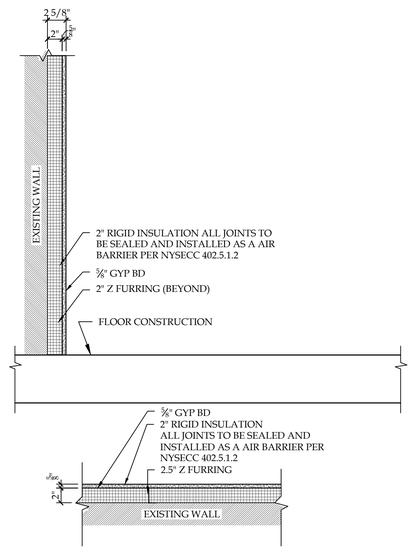


2 3-5/8" METAL STUD PARTITION

USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS

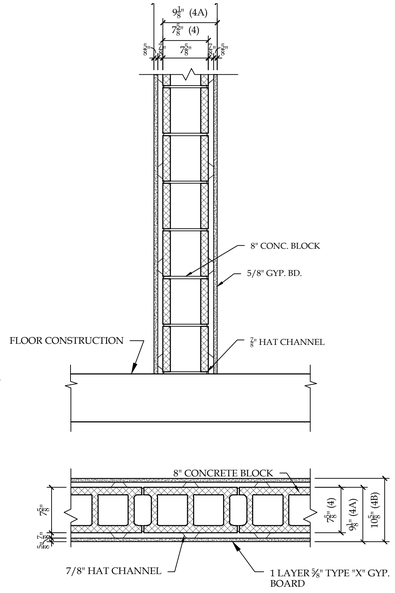
2A 6" METAL STUD PARTITION

USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS



3 2" Z FURRING w/ 2" RIGID INSULATION TYP. AT EXTERIOR WALLS

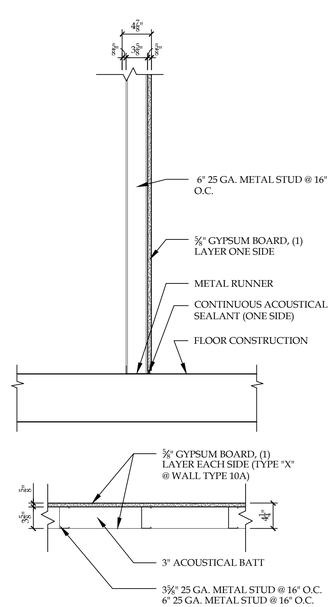
USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS



4 8" MASONRY BLOCK

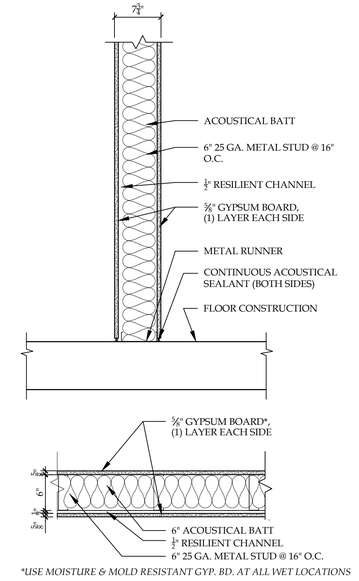
4A 8" MASONRY BLOCK WITH FURRING (ONE FINISH SIDE)

4B 8" MASONRY BLOCK WITH FURRING (BOTH FINISH SIDES)



5 3-5/8" METAL STUD CHASE WALL

USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS



**USE MOISTURE & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS*

6 6" ACOUSTICAL METAL STUD PARTITION - STC 55 MIN

STC 55 min based on NGC 2017217 assembly providing a STC-51 with a 3-5/8" metal stud wall assembly. Increase of +4 STC with increasing wall cavity to a 6" metal stud.

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Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

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PROJ. ARCH. _____ PRINCIPAL P. Silvestri
JOB CAPT. W. Manhardt DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
PARTITION TYPES

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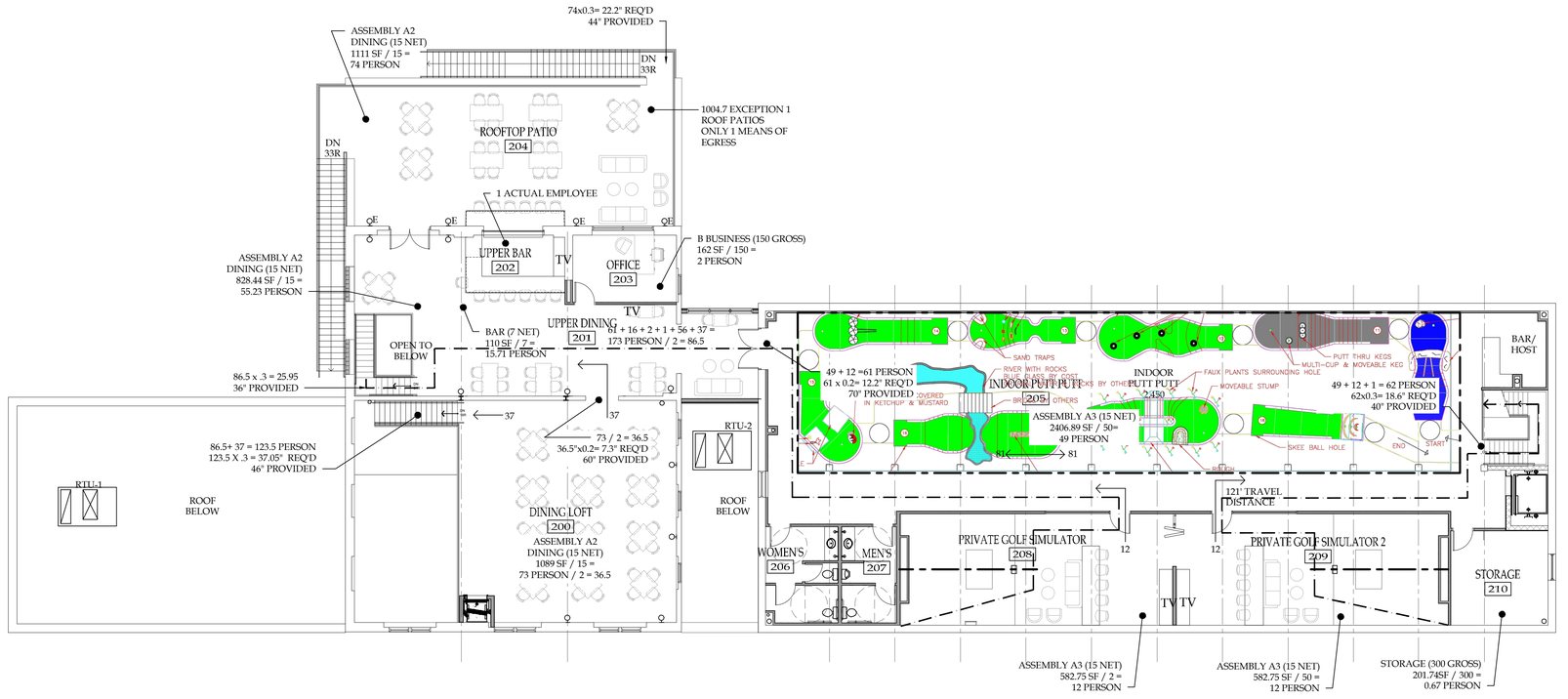
SA JOB #: 22073.03
DATE: 1/12/26

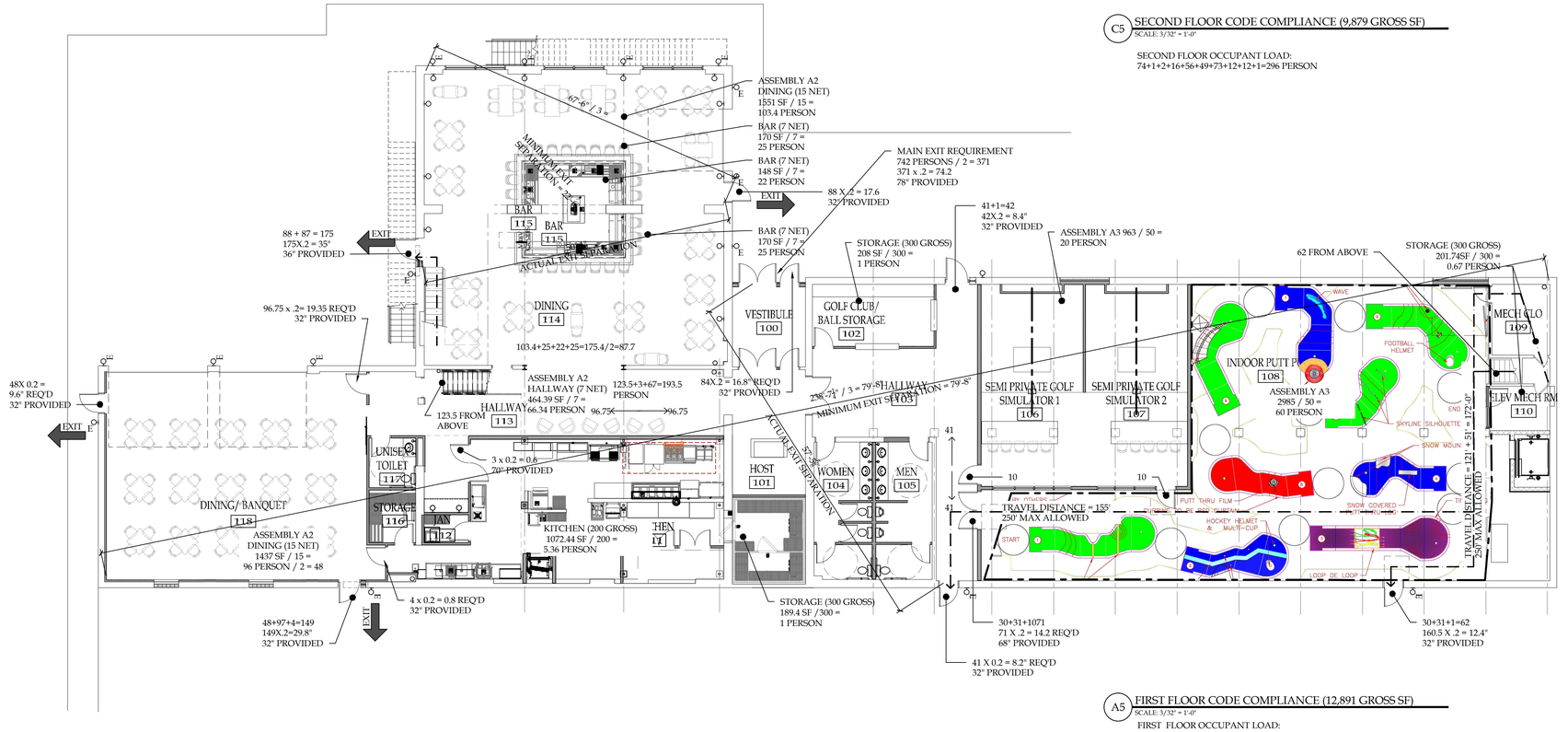
DRAWING #: A-004



C5 SECOND FLOOR CODE COMPLIANCE (9,879 GROSS SF)

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

SECOND FLOOR OCCUPANT LOAD:
74+1+2+16+56+49+73+12+12+1=296 PERSON



A5 FIRST FLOOR CODE COMPLIANCE (12,891 GROSS SF)

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

FIRST FLOOR OCCUPANT LOAD:
193.5+60+10+10+67+1+6+96+1+1=445.5 PERSON

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

CODE COMPLIANCE PLANS

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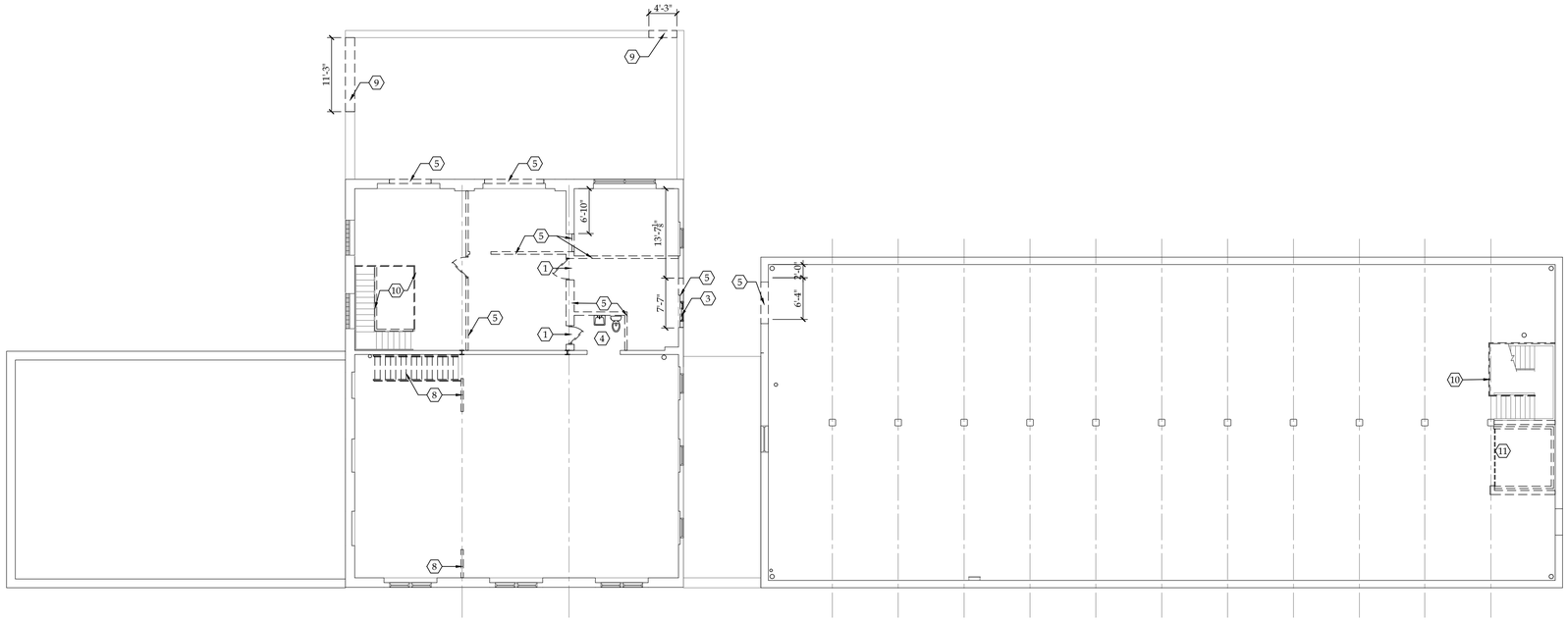
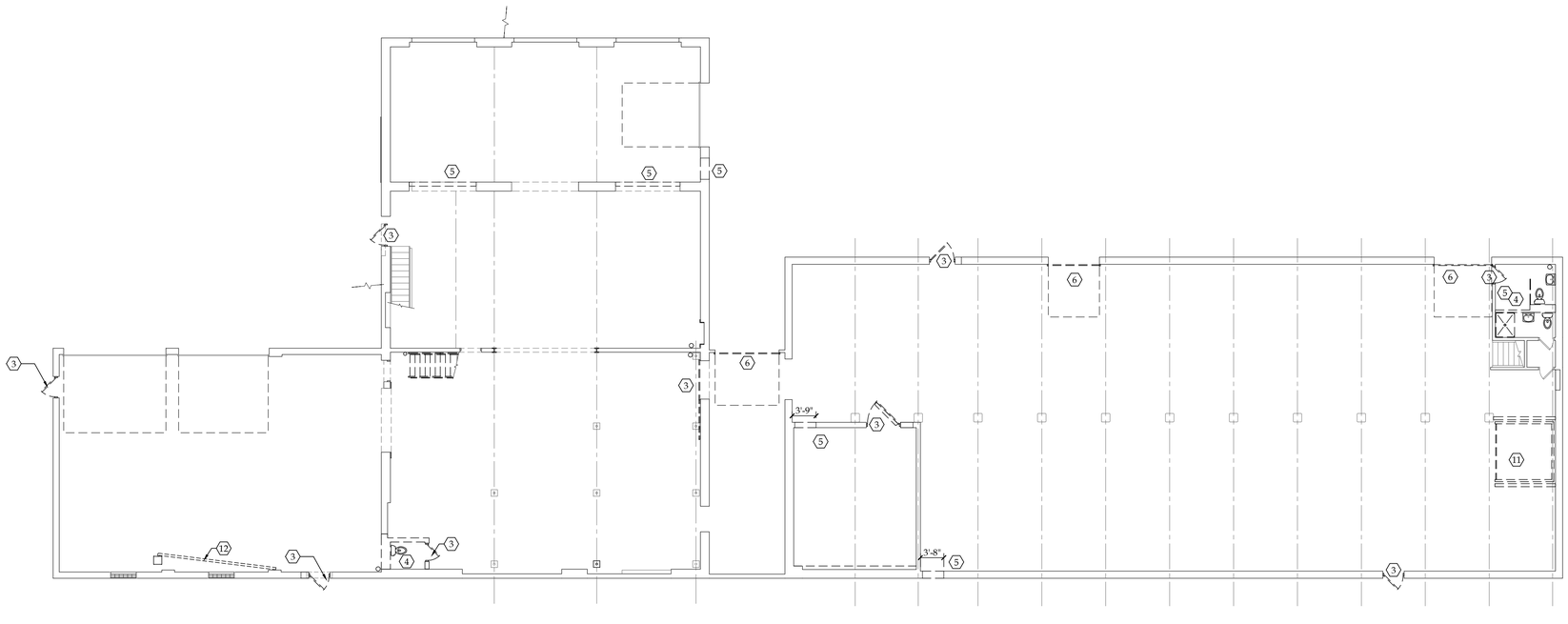
SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: A-005



C1 PROPOSED SECOND FLOOR DEMO PLAN
3/32" = 1'-0"



A1 PROPOSED FIRST FLOOR DEMO PLAN
3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

- THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING DEMOLITION OR CONSTRUCTION AND IS TO REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.
- THE CONTRACTOR IS TO PROTECT EXISTING WALLS, FLOORS & ANY OTHER ITEMS TO REMAIN DURING CONSTRUCTION.
- THE CONTRACTOR WILL BE REQUIRED TO REMOVE ALL ITEMS INDICATED, IMPLIED OR OTHERWISE NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL DEMOLISHED ITEMS FROM THE SITE. ALL DEMOLISHED ITEMS TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
- DEMO CONTRACTOR TO PROVIDE DUMPSTERS & MEANS OF MATERIAL REMOVAL FROM SITE, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS & AUTHORITIES HAVING JURISDICTION.
- DEMO CONTRACTOR TO CARRY FORTH DAILY CLEAN UP OF SITE.
- PATCH & REPAIR EXISTING SURFACES DAMAGED BY DEMOLITION. ALL REPAIR WORK SHALL MATCH EXISTING, ADJACENT MATERIALS & METHODS.
- ALL EXISTING SURFACES LEFT EXPOSED AFTER DEMOLITION SHALL BE PROTECTED AND SAFEGUARDED FROM EXPOSURE FROM WEATHER AND OR DAMAGE FROM CONSTRUCTION DURING CONSTRUCTION.
- THIS DEMOLITION DRAWING ONLY PROVIDES A BASIC SCOPE OF WORK AND SHOULD NOT BE REFERENCED FOR OTHER TRADE WORK.
- REMOVAL OF ALL LEAD AND ASBESTOS MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, OSHA STANDARDS AND APPLICABLE CODES.
- DEMO CONTRACTOR TO PROVIDE PROOF OF INSURANCE TO ARCHITECT AND OWNER.
- DEMO CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS ON SITE SUPERVISION.
- EXISTING ELECTRICAL CIRCUITS NOT TO BE REUSED SHALL BE REMOVED BACK TO PANELS.
- CONTRACTOR SHALL SHORE & BRACE ANY FLOOR, WALL OR ROOF SYSTEM INVOLVED IN DEMOLITION THAT COULD EFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING.
- ANY ITEM NOT SPECIFICALLY CALLED OUT TO BE REMOVED OR RELOCATED, BUT NECESSARY TO DO AS PART OF THE PROJECT, SHALL BE REMOVED & STORED ON SITE IF REQUIRED.
- WALLS, DOORS & EQUIPMENT NOT DASHED ARE EXISTING TO REMAIN.
- CONTRACTOR TO VERIFY IF MOLD REMEDIATION IS NECESSARY PRIOR TO THE START OF WORK. NOTIFY ARCHITECT IMMEDIATELY IF MOLD REMEDIATION IS NEEDED.
- CONTRACTOR SHALL PATCH & REPAIR WALLS & FLOORS AS NECESSARY TO RECEIVE NEW FINISHES
- DEMOLITION CONTRACTOR TO COORDINATE WITH STRUCTURAL ENGINEER DRAWINGS FOR ANY ADDITIONAL DEMOLITION REQUIRED FOR BUILDING REPAIRS. COORDINATE WITH LANDLORD & TENANT
- ANY EXISTING BRICK TO REMAIN EXPOSED NEEDS TO BE REPAIRED, REPOINTED, CLEANED AS NECESSARY.
- ANY EXISTING EQUIPMENT, ITEMS LEFT IN BUILDING SHALL BE CLEARED OUT BY CONTRACTOR AND RETURNED TO BUILDING OWNER. COORDINATE DISPOSAL OF ITEMS WITH BUILDING OWNER AND TENANT
- EXISTING CONCRETE FLOOR TO BE PATCHED & REPAIRED AS NECESSARY. PREP FOR NEW FLOORING INSTALLATION. COORD W FINISH PLAN.
- DISCONNECT & REMOVE SUSPENDED FLUORESCENT LIGHT FIXTURES, MECHANICAL UNITS, HVAC SUPPLY & RETURN DIFFUSERS, ETC., COORDINATE DISPOSAL OF ALL ITEMS WITH BUILDING OWNER.

(X) DEMOLITION PLAN NOTES:

1. REMOVE EXISTING INTERIOR DOOR, ASSOCIATED DOOR FRAME & ASSOCIATED DOOR HARDWARE IN ITS ENTIRETY.
2. EXISTING WINDOWS TO BE CAREFULLY REMOVED IN ITS ENTIRETY AND STORED FOR REUSE DURING NEW CONSTRUCTION. PREP FOR NEW WORK.
3. EXISTING DOOR OR WINDOW TO BE REMOVED IN ITS ENTIRETY. PREP FOR NEW CONSTRUCTION.
4. EXISTING PLUMBING FIXTURES, TOILET PARTITIONS AND TOILET ACCESSORIES TO BE REMOVED IN IT'S ENTIRETY.
5. PORTION OF EXISTING WALL TO BE REMOVED. PREP FOR NEW CONSTRUCTION
6. EXISTING OVERHEAD DOOR TO BE REMOVED IN IT'S ENTIRETY. PREP FOR NEW WORK.
7. ALL FLOOR & WALL TILES TO BE DEMOLISHED. PATCH & REPAIR AS NECESSARY TO RECEIVE NEW FINISHES
8. EXISTING STAIR AND RAILING TO BE REMOVED IN ITS ENTIRETY. CONTRACTOR TO PROVIDE SHORING AS NECESSARY. PREP FOR NEW CONSTRUCTION.
9. PORTION OF EXISTING PARAPET WALL TO BE REMOVED.
10. EXISTING RAILING/GUARDRAIL TO BE DEMOLISHED. PREP FOR NEW WORK. PREP EXISTING STAIR FOR NEW FINISHES. PROVIDE SHORING AND REINFORCEMENT AS NECESSARY. REPLACE TREADS/RISERS AS NEEDED.
11. EXISTING FREIGHT ELEVATOR TO BE REMOVED IN ITS ENTIRETY. PREP FOR NEW ELEVATOR INSTALLATION. THIS WORK TO BE BY BUILDING OWNER, SHOWN FOR REFERENCE ONLY.
12. EXISTING EQUIPMENT TO BE REMOVED IN ITS ENTIRETY. PATCH & REPAIR EXISTING SURFACES AS NECESSARY. PREP FOR NEW WORK.

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ISSUE:
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SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

OVERALL FIRST & SECOND FLOOR DEMO PLAN

SILVESTRI
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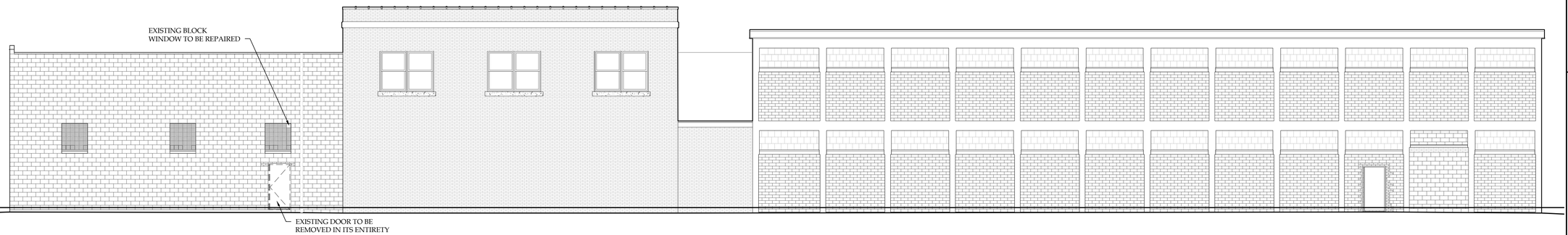
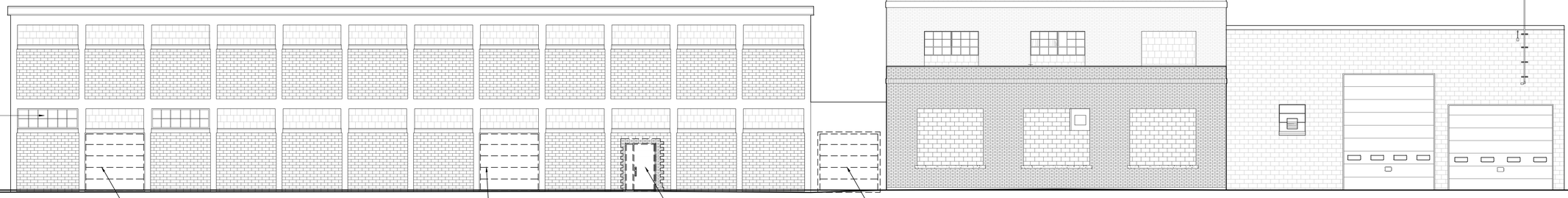
SA JOB #: 22073.03
DATE: 1/12/26

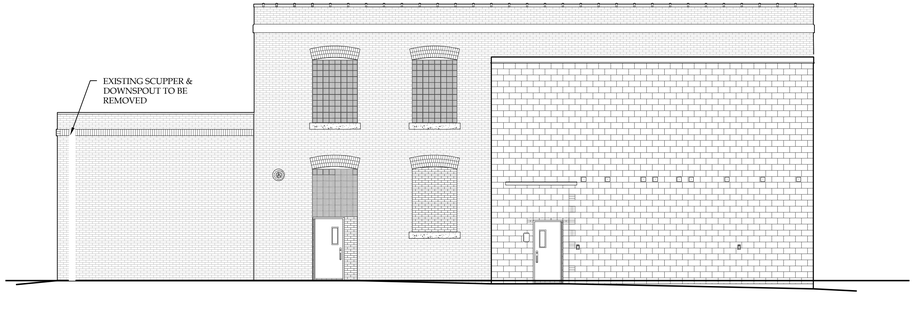
DRAWING #: AD-101



D1 SOUTH ELEVATION DEMOLITION
1/8" = 1'-0"



B1 NORTH ELEVATION DEMOLITION
1/8" = 1'-0"



A1 WEST ELEVATION DEMOLITION
1/8" = 1'-0"

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DRAFTER _____
JOB CAPT. W. Manhardt
INTERIORS S. Shank

SEAL:

TITLE:

EXTERIOR ELEVATIONS DEMOLITION

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SA JOB #: 22073.03

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PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:

OVERALL FIRST & SECOND FLOOR PLAN

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SA JOB #: 22073.03

DATE: 1/12/26

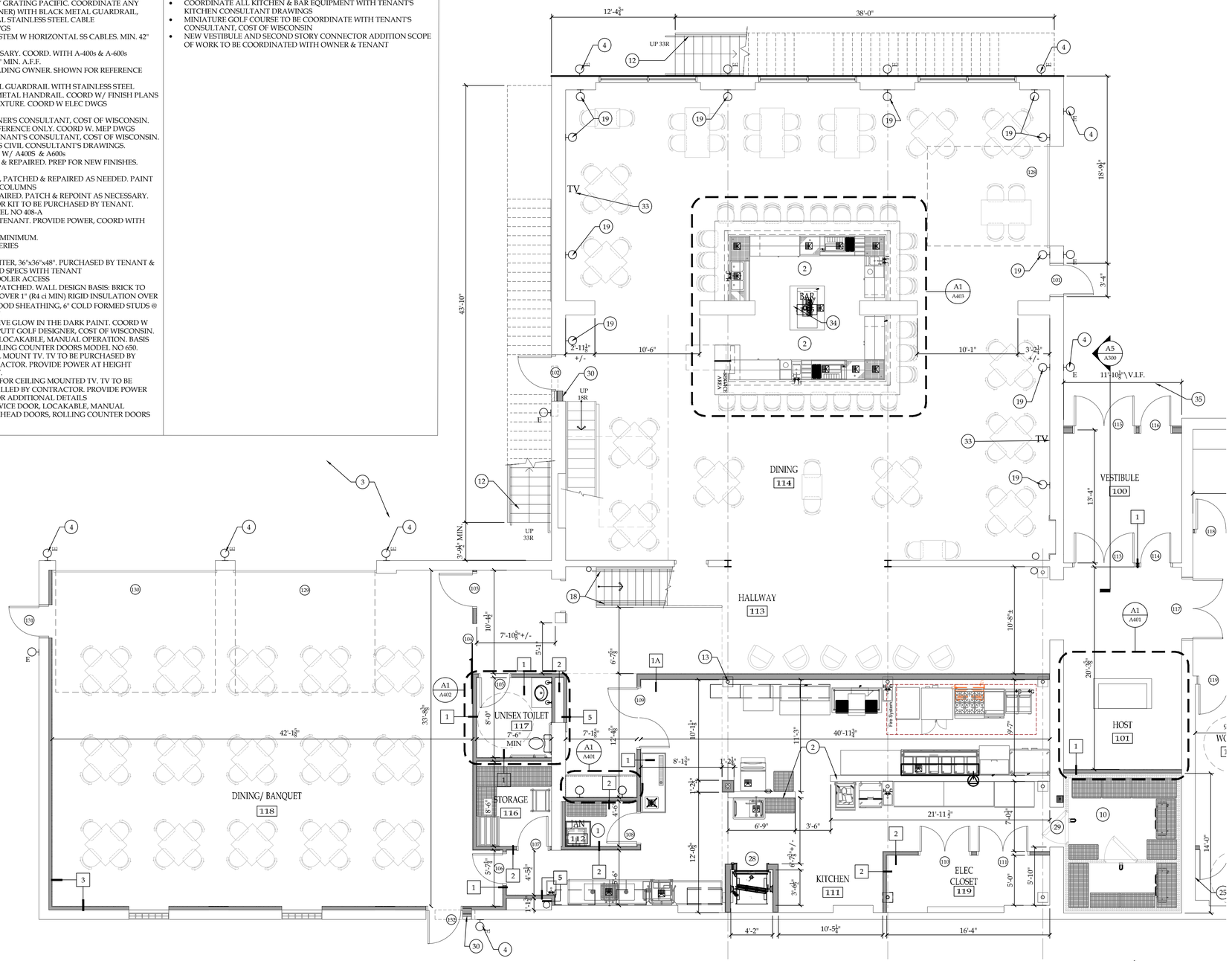
DRAWING #: A-100

KEYED NOTES

1. MOP SINK WITH MOP & BROOM HOLDER.
2. BAR/ KITCHEN EQUIPMENT & LAYOUT BY OTHERS. COORDINATE WITH MEP & TENAN'TS KITCHEN CONSULTANT DWGS
3. NEW CONCRETE PATIO, COORD W TENANT'S CIVIL ENGINEER DRAWINGS
4. EXTERIOR RATED WALL MOUNTED LIGHT FIXTURE. COORD W/ELEC DWGS. BASIS OF DESIGN:
5. PATIO DECK TILES ON ADJUSTABLE FOOTERS OVER MEMBRANE ROOFING
6. BLACK METAL GUARDRAIL, RAILING & POST WITH HORIZONTAL STAINLESS STEEL CABLE.
7. ROOF ACCESS LADDER. REFER TO A300S FOR MORE INFORMATION
8. 24" X 36" INSULATED ROOF ACCESS HATCH W/NON PENETRATING GUARDRAIL
9. APPROXIMATE LOCATION OF BUILDING SIGNAGE. ELECTRICAL ENGINEER TO PROVIDE POWER. COORDINATE WITH TENANT
10. COORDINATE FREEZER & COOLER INSTALLATION WITH OWNER'S & OWNER'S KITCHEN CONSULTANT DRAWINGS
11. WALL ACCESS PANEL TO SERVICE GOLF SIMULATOR EQUIPMENT. COORD W TENANT
12. EXTERIOR OPEN RISER STAIR (BASIS OF DESIGN: ALUMINUM BAR GRATE BASIS OF DESIGN: 7-SG-4, COLOR BLACK, BY GRATING PACIFIC. COORDINATE ANY CHANGES WITH ARCHITECT & OWNER) WITH BLACK METAL GUARDRAIL, RAILING & POST WITH HORIZONTAL STAINLESS STEEL CABLE
13. NEW COLUMN, COORD W STRUC DWGS
14. NEW BLACK METAL GUARD RAIL SYSTEM W HORIZONTAL SS CABLES. MIN. 42" A.F.F.
15. REPLACE TREAD & RISERS. AS NECESSARY. COORD. WITH A-400s & A-600s
16. NEW BLACK METAL HANDRAIL 2'-10" MIN. A.F.F.
17. NEW ELEVATOR AND SHAFT BY BUILDING OWNER. SHOWN FOR REFERENCE ONLY. N.I.C.
18. NEW WOOD STAIRS W BLACK METAL GUARDRAIL WITH STAINLESS STEEL HORIZONTAL CABLES AND BLACK METAL HANDRAIL. COORD W/ FINISH PLANS
19. INTERIOR WALL MOUNTED LIGHT FIXTURE. COORD W ELEC DWGS BASIS OF DESIGN:
20. INDOOR PUTT PUTT COURSE BY OWNER'S CONSULTANT, COST OF WISCONSIN. NOT IN CONTRACT, SHOWN FOR REFERENCE ONLY. COORD W. MEP DWGS
21. EXTERIOR PUTT PUTT COURSE BY TENANT'S CONSULTANT, COST OF WISCONSIN. COORD W MEP DWGS AND TENANT'S CIVIL CONSULTANT'S DRAWINGS.
22. PICK UP/ RETURN WINDOW. COORD W/ A400S & A600s
23. PORTION OF FLOOR TO BE PATCHED & REPAIRED. PREP FOR NEW FINISHES. COORD W FINISH PLANS
24. EXISTING COLUMNS TO BE SCRAPED, PATCHED & REPAIRED AS NEEDED. PAINT PER FINISH PLANS. TYPICAL AT ALL COLUMNS
25. EXISTING EXPOSED BRICK TO BE REPAIRED. PATCH & REPOINT AS NECESSARY.
26. CEILING MOUNTED GOLF SIMULATOR KIT TO BE PURCHASED BY TENANT. BASIS OF DESIGN: FULL SWING, MODEL NO 408-A COORDINATE INSTALLATION WITH TENANT. PROVIDE POWER, COORD WITH ELEC DWGS
27. OPERABLE WALL PARTITION, 56 STC MINIMUM. BASIS OF DESIGN: KWIKWALL, 3000 SERIES
28. NEW DUMBWAITER & SHAFT. BASIS OF DESIGN : MATOT DUMBWAITER, 36"x36"x48". PURCHASED BY TENANT & INSTALLED BY CONTRACTOR. COORD SPECS WITH TENANT
29. OPENING IN EXISTING WALL FOR COOLER ACCESS
30. PORTION OF EXISTING WALL TO BE PATCHED. WALL DESIGN BASIS: BRICK TO MATCH EXISTING, OVER AIR SPACE, OVER 1" (R4 ci MIN) RIGID INSULATION OVER ¾" EXT GRADE (FIRE TREATED) PLYWOOD SHEATHING, 6" COLD FORMED STUDS @ 16" OC MAX W R-21 INSULATION MIN
31. INDOOR PUTT PUTT AREAS TO RECEIVE GLOW IN THE DARK PAINT. COORD W FINISH DWGS AND TENANT'S PUTT PUTT GOLF DESIGNER, COST OF WISCONSIN.
32. ROLLING COUNTER SERVICE DOOR, LOCAKABLE, MANUAL OPERATION. BASIS OF DESIGN: OVERHEAD DOORS, ROLLING COUNTER DOORS MODEL NO 650.
33. PROVIDE IN WALL BLOCK FOR WALL MOUNT TV. TV TO BE PURCHASED BY TENANT AND INSTALLED BY CONTRACTOR. PROVIDE POWER AT HEIGHT APPROPRIATE FOR WALL MOUNT TV.
34. PROVIDE BLOCKING AS NECESSARY FOR CEILING MOUNTED TV. TV TO BE PURCHASED BY TENANT AND INSTALLED BY CONTRACTOR. PROVIDE POWER
35. NEW 2 STORY ADDITION. RE: A300 FOR ADDITIONAL DETAILS
36. INSULATED ROLLING COUNTER SERVICE DOOR, LOCAKABLE, MANUAL OPERATION. BASIS OF DESIGN: OVERHEAD DOORS, ROLLING COUNTER DOORS MODEL NO 650.

GENERAL NOTES

- PROVIDE MOISTURE & MOLD RESISTANT GYP BD AT ALL WET LOCATIONS
- PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY LOCAL FIRE CODE. TO BE RECESS OR PARTIALLY MOUNTED AS APPLICABLE.
- ALL BATHROOM & LAUNDRY ROOM DIMENSIONS TO BE HELD AT MINIMUM.
- ANY BRICK WALLS TO REMAIN EXPOSED TO BE PATCHED, REPAIRED AND REPOINTED AS NECESSARY.
- ALL INTERIOR DIMENSIONS ARE TAKEN FINISH TO FINISH UNLESS NOTED OTHERWISE.
- ALL WALLS TO BE WALL TYPE 1, UNLESS NOTED OTHERWISE. REFER TO A-001
- COORDINATE ALL MECHANICAL, PLUMBING & ELECTRICAL WORK WITH MEP CONSULTANT DRAWINGS.
- ALL FULL HEIGHT WALLS TO BE TIGHT TO DECK WHERE REQUIRED.
- ALL FURNITURE TO BE PROVIDED BY TENANT
- LIGHTING NOT DIMENSIONED SHALL BE CENTERED WITHIN SPACE AS SHOWN
- COORDINATE ALL KITCHEN & BAR EQUIPMENT WITH TENANT'S KITCHEN CONSULTANT DRAWINGS
- MINIATURE GOLF COURSE TO BE COORDINATE WITH TENANT'S CONSULTANT, COST OF WISCONSIN
- NEW VESTIBULE AND SECOND STORY CONNECTOR ADDITION SCOPE OF WORK TO BE COORDINATED WITH OWNER & TENANT



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SA PROJECT TEAM:
PROJ. ARCH. _____ PRINCIPAL P. Silvestri
JOB CAPT. W. Manhardt DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:

ENLARGED FIRST FLOOR PLAN - NORTH BUILDING

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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: A-101A

KEYED NOTES

1. MOP SINK WITH MOP & BROOM HOLDER.
2. BAR/ KITCHEN EQUIPMENT & LAYOUT BY OTHERS. COORDINATE WITH MEP & TENAN'TS KITCHEN CONSULTANT DWGS
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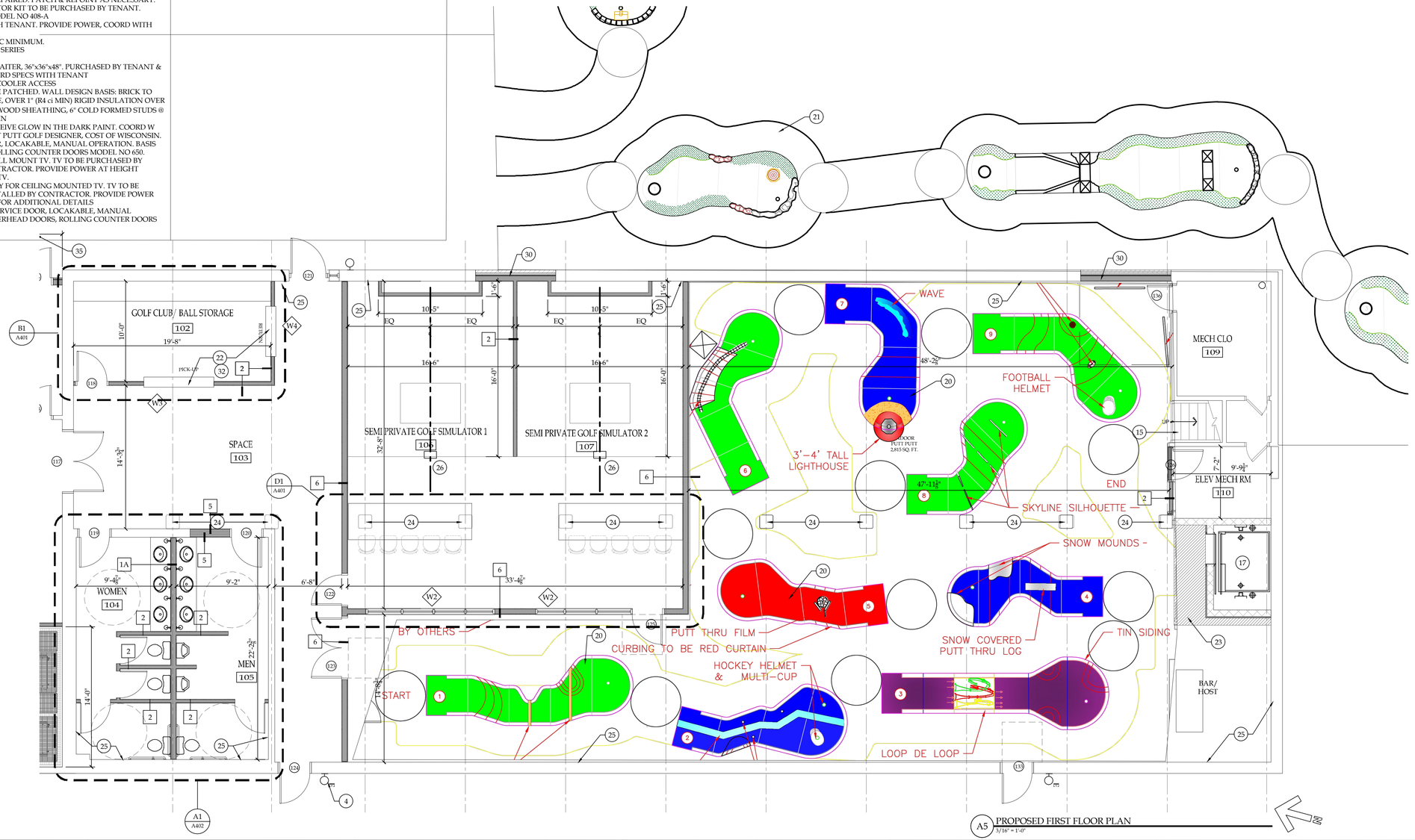

A5 PROPOSED FIRST FLOOR PLAN
3/16" = 1'-0"

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SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
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SEAL:

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ENLARGED FIRST FLOOR PLAN - SOUTH BUILDING

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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: A-101B

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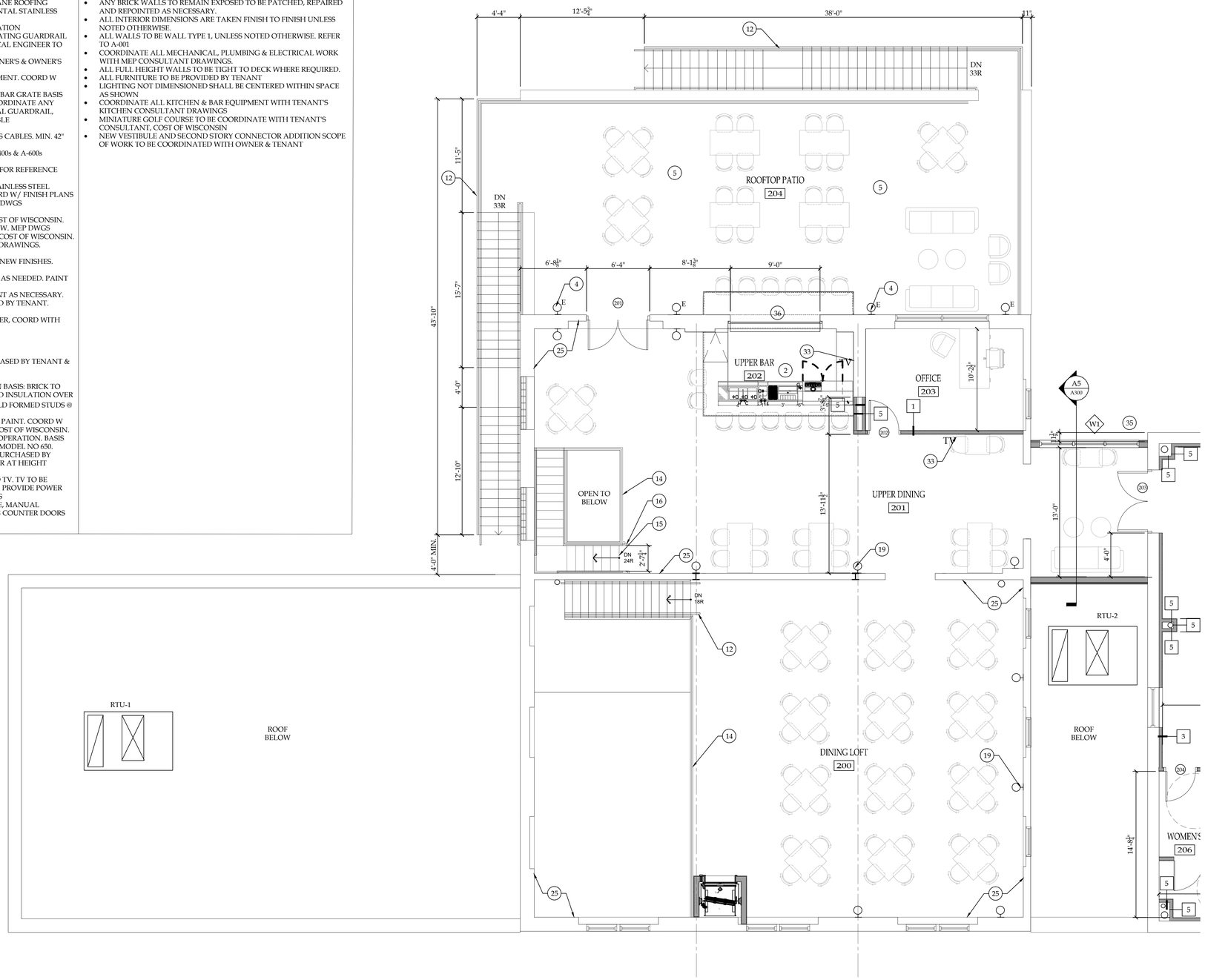
15. REPLACE TREAD & RISERS. AS NECESSARY. COORD. WITH A-400s & A-600s
16. NEW BLACK METAL HANDRAIL 2'-10" MIN. A.F.F.
17. NEW ELEVATOR AND SHAFT BY BUILDING OWNER. SHOWN FOR REFERENCE ONLY. N.I.C.
18. NEW WOOD STAIRS W BLACK METAL GUARDRAIL WITH STAINLESS STEEL HORIZONTAL CABLES AND BLACK METAL HANDRAIL. COORD W/ FINISH PLANS
19. INTERIOR WALL MOUNTED LIGHT FIXTURE. COORD W ELEC DWGS BASIS OF DESIGN:
20. INDOOR PUTT PUTT COURSE BY OWNER'S CONSULTANT, COST OF WISCONSIN. NOT IN CONTRACT, SHOWN FOR REFERENCE ONLY. COORD W. MEP DWGS
21. EXTERIOR PUTT PUTT COURSE BY TENANT'S CONSULTANT, COST OF WISCONSIN. COORD W MEP DWGS AND TENANT'S CIVIL CONSULTANT'S DRAWINGS.
22. PICK UP/ RETURN WINDOW. COORD W/ A400S & A600s
23. PORTION OF FLOOR TO BE PATCHED & REPAIRED. PREP FOR NEW FINISHES. COORD W FINISH PLANS
24. EXISTING COLUMNS TO BE SCRAPED, PATCHED & REPAIRED AS NEEDED. PAINT PER FINISH PLANS. TYPICAL AT ALL COLUMNS
25. EXISTING EXPOSED BRICK TO BE REPAIRED. PATCH & REPOINT AS NECESSARY.
26. CEILING MOUNTED GOLF SIMULATOR KIT TO BE PURCHASED BY TENANT. BASIS OF DESIGN: FULL SWING, MODEL NO 408-A COORDINATE INSTALLATION WITH TENANT. PROVIDE POWER, COORD WITH ELEC DWGS
27. OPERABLE WALL PARTITION, 56 STC MINIMUM. BASIS OF DESIGN: KWIKWALL, 3000 SERIES
28. NEW DUMBWAITER & SHAFT. BASIS OF DESIGN : MATOT DUMBWAITER, 36"x36"x48". PURCHASED BY TENANT & INSTALLED BY CONTRACTOR. COORD SPECS WITH TENANT
29. OPENING IN EXISTING WALL FOR COOLER ACCESS
30. PORTION OF EXISTING WALL TO BE PATCHED. WALL DESIGN BASIS: BRICK TO MATCH EXISTING, OVER AIR SPACE, OVER 1" (R4 ci MIN) RIGID INSULATION OVER ½" EXT GRADE (FIRE TREATED) PLYWOOD SHEATHING, 6" COLD FORMED STUDS @ 16" OC MAX W R-21 INSULATION MIN
31. INDOOR PUTT PUTT AREAS TO RECEIVE GLOW IN THE DARK PAINT. COORD W FINISH DWGS AND TENANT'S PUTT PUTT GOLF DESIGNER, COST OF WISCONSIN.
32. ROLLING COUNTER SERVICE DOOR, LOCAKABLE, MANUAL OPERATION. BASIS OF DESIGN: OVERHEAD DOORS, ROLLING COUNTER DOORS MODEL NO 650.
33. PROVIDE IN WALL BLOCK FOR WALL MOUNT TV. TV TO BE PURCHASED BY TENANT AND INSTALLED BY CONTRACTOR. PROVIDE POWER AT HEIGHT APPROPRIATE FOR WALL MOUNT TV.
34. PROVIDE BLOCKING AS NECESSARY FOR CEILING MOUNTED TV. TV TO BE PURCHASED BY TENANT AND INSTALLED BY CONTRACTOR. PROVIDE POWER
35. NEW 2 STORY ADDITION. RE: A300 FOR ADDITIONAL DETAILS
36. INSULATED ROLLING COUNTER SERVICE DOOR, LOCAKABLE, MANUAL OPERATION. BASIS OF DESIGN: OVERHEAD DOORS, ROLLING COUNTER DOORS MODEL NO 650.

GENERAL NOTES

- PROVIDE MOISTURE & MOLD RESISTANT GYP BD AT ALL WET LOCATIONS
- PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY LOCAL FIRE CODE. TO BE RECESS OR PARTIALLY MOUNTED AS APPLICABLE.
- ALL BATHROOM & LAUNDRY ROOM DIMENSIONS TO BE HELD AT MINIMUM.
- ANY BRICK WALLS TO REMAIN EXPOSED TO BE PATCHED, REPAIRED AND REPOINTED AS NECESSARY.
- ALL INTERIOR DIMENSIONS ARE TAKEN FINISH TO FINISH UNLESS NOTED OTHERWISE.
- ALL WALLS TO BE WALL TYPE 1, UNLESS NOTED OTHERWISE. REFER TO A-001
- COORDINATE ALL MECHANICAL, PLUMBING & ELECTRICAL WORK WITH MEP CONSULTANT DRAWINGS.
- ALL FULL HEIGHT WALLS TO BE TIGHT TO DECK WHERE REQUIRED.
- ALL FURNITURE TO BE PROVIDED BY TENANT
- LIGHTING NOT DIMENSIONED SHALL BE CENTERED WITHIN SPACE AS SHOWN
- COORDINATE ALL KITCHEN & BAR EQUIPMENT WITH TENANT'S KITCHEN CONSULTANT DRAWINGS
- MINIATURE GOLF COURSE TO BE COORDINATED WITH TENANT'S CONSULTANT, COST OF WISCONSIN
- NEW VESTIBULE AND SECOND STORY CONNECTOR ADDITION SCOPE OF WORK TO BE COORDINATED WITH OWNER & TENANT



C5 PROPOSED SECOND FLOOR PLAN
3/16" = 1'-0"

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Buffalo, NY 14202

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SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:

ENLARGED SECOND FLOOR PLAN - NORTH BUILDING

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PH. 716.691.0900
FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-102A

KEYED NOTES

1. MOP SINK WITH MOP & BROOM HOLDER.
2. BAR/ KITCHEN EQUIPMENT & LAYOUT BY OTHERS. COORDINATE WITH MEP & TENANT'S KITCHEN CONSULTANT DWGS
3. NEW CONCRETE PATIO, COORD W TENANT'S CIVIL ENGINEER DRAWINGS
4. EXTERIOR RATED WALL MOUNTED LIGHT FIXTURE. COORD W/ELEC DWGS. BASIS OF DESIGN:
5. PATIO DECK TILES ON ADJUSTABLE FOOTERS OVER MEMBRANE ROOFING
6. BLACK METAL GUARDRAIL, RAILING & POST WITH HORIZONTAL STAINLESS STEEL CABLE.
7. ROOF ACCESS LADDER. REFER TO A300S FOR MORE INFORMATION
8. 24" X 36" INSULATED ROOF ACCESS HATCH W/NON PENETRATING GUARDRAIL
9. APPROXIMATE LOCATION OF BUILDING SIGNAGE. ELECTRICAL ENGINEER TO PROVIDE POWER. COORDINATE WITH TENANT
10. COORDINATE FREEZER & COOLER INSTALLATION WITH OWNER'S & OWNER'S KITCHEN CONSULTANT DRAWINGS
11. WALL ACCESS PANEL TO SERVICE GOLF SIMULATOR EQUIPMENT. COORD W TENANT
12. EXTERIOR OPEN RISER STAIR (BASIS OF DESIGN: ALUMINUM BAR GRATE BASIS OF DESIGN: 7-SG-4, COLOR BLACK, BY GRATING PACIFIC. COORDINATE ANY CHANGES WITH ARCHITECT & OWNER) WITH BLACK METAL GUARDRAIL, RAILING & POST WITH HORIZONTAL STAINLESS STEEL CABLE
13. NEW COLUMN, COORD W STRUC DWGS
14. NEW BLACK METAL GUARD RAIL SYSTEM W HORIZONTAL SS CABLES. MIN. 42" A.F.F.
15. REPLACE TREAD & RISERS. AS NECESSARY. COORD. WITH A-400s & A-600s
16. NEW BLACK METAL HANDRAIL 2'-10" MIN. A.F.F.
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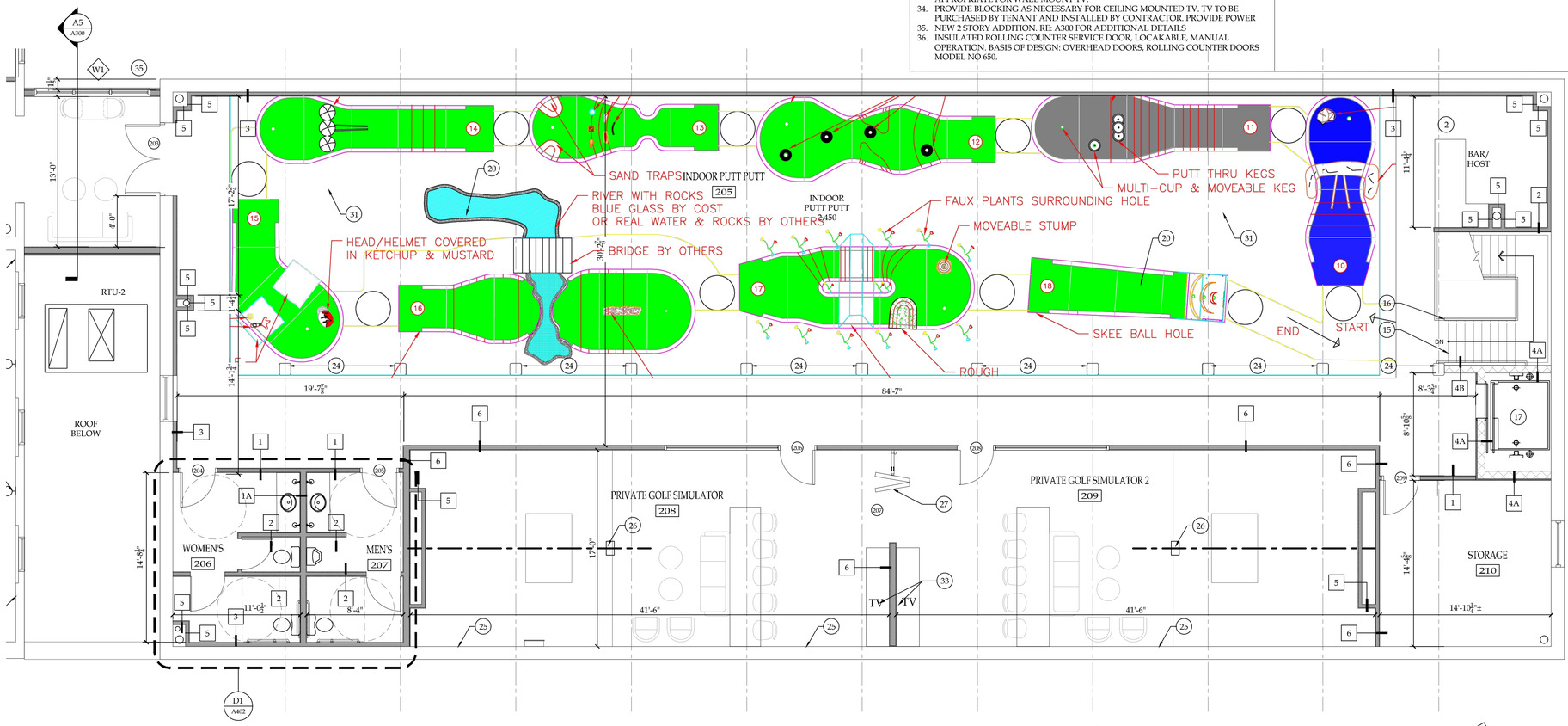
- ALL FULL HEIGHT WALLS TO BE TIGHT TO DECK WHERE REQUIRED.
- ALL FURNITURE TO BE PROVIDED BY TENANT
- LIGHTING NOT DIMENSIONED SHALL BE CENTERED WITHIN SPACE AS SHOWN
- COORDINATE ALL KITCHEN & BAR EQUIPMENT WITH TENANT'S KITCHEN CONSULTANT DRAWINGS
- MINIATURE GOLF COURSE TO BE COORDINATE WITH TENANT'S CONSULTANT, COST OF WISCONSIN
- NEW VESTIBULE AND SECOND STORY CONNECTOR ADDITION SCOPE OF WORK TO BE COORDINATED WITH OWNER & TENANT



C5 PROPOSED SECOND FLOOR PLAN
3/16" = 1'-0"

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SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
ENLARGED SECOND FLOOR PLAN - SOUTH BUILDING

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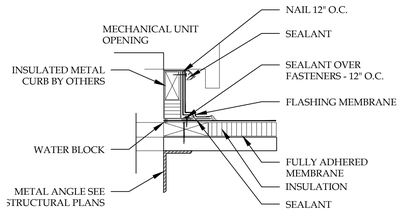
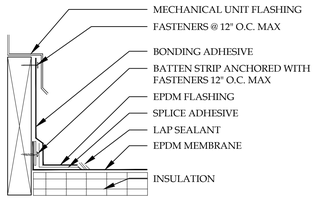
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-102B

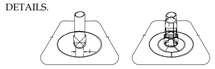


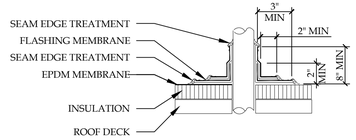


ROOF PLAN GENERAL NOTES:

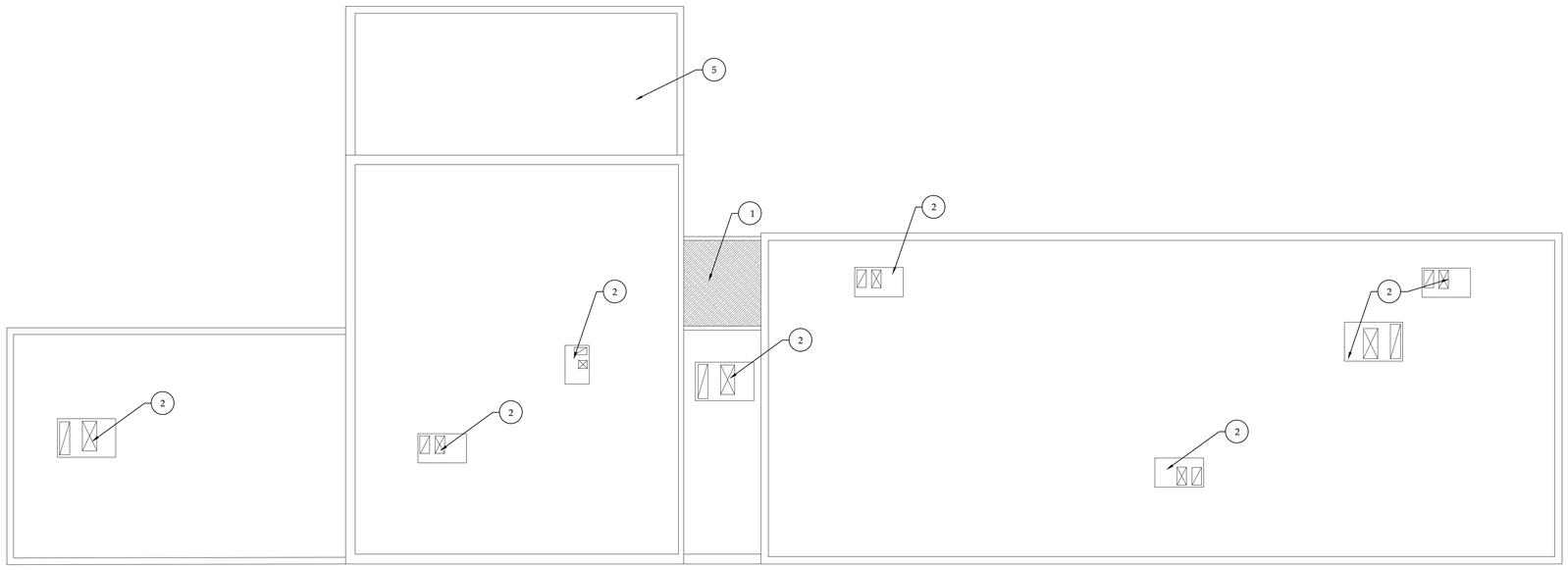
1. CONTRACTOR TO INSTALL NEW FULLY ADHERED MEMBRANE ROOFING SYSTEM, WHERE NOTED & REQUIRED, PER MANUFACTURER INSTALLATION RECOMMENDATION.
2. REFER TO MEP & TENANT'S KITCHEN HOOD DRAWINGS AND SPECS FOR NEW ROOF TOP EQUIPMENT, VENTS, EXHAUSTS, ETC
3. ANY EXISTING ROOF REPAIR WORK NEEDED TO CREATE A FULLY WATERPROOF ROOF SYSTEM, TO BE COORDINATED WITH OWNER AND TENANT
4. ANY NEW ROOF TOP EQUIPMENT AND PENETRATIONS SHALL BE FULLY WATERTIGHT
5. NEW PEDESTAL PAVER SYSTEM OVER EXISTING ROOF SYSTEM. COORDINATE ANY ROOF REPAIR WORK WITH OWNER.
BASIS OF DESIGN: CUMARU DECK TILES ON ADJUSTABLE FOOTERS

NOTES:
1. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, ETC.
2. PIPE MUST BE ANCHORED TO BOTTOM SIDE OF DECK TO ASSURE STABILITY.
3. DO NOT INSTALL CLAMPING RING AROUND TOP OF FORM FLASH.
4. WOOD NAILER REQUIRED WHEN OUTSIDE DIAMETER OF THE PIPE EXCEEDS 18" - REFER TO BASE TIE- IN DETAILS.





C4 ROOF DETAILS
SCALE: 1-1/2" = 1'-0"



A6 OVERALL ROOF PLAN
SCALE: 3/32" = 1'-0"

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SA PROJECT TEAM:
PROJ. ARCH. _____ PRINCIPAL P. Silvestri
JOB CAPT. W. Manhardt DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
EXISTING ROOF PLAN & DETAILS

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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-103

REFLECTED CEILING LEGEND

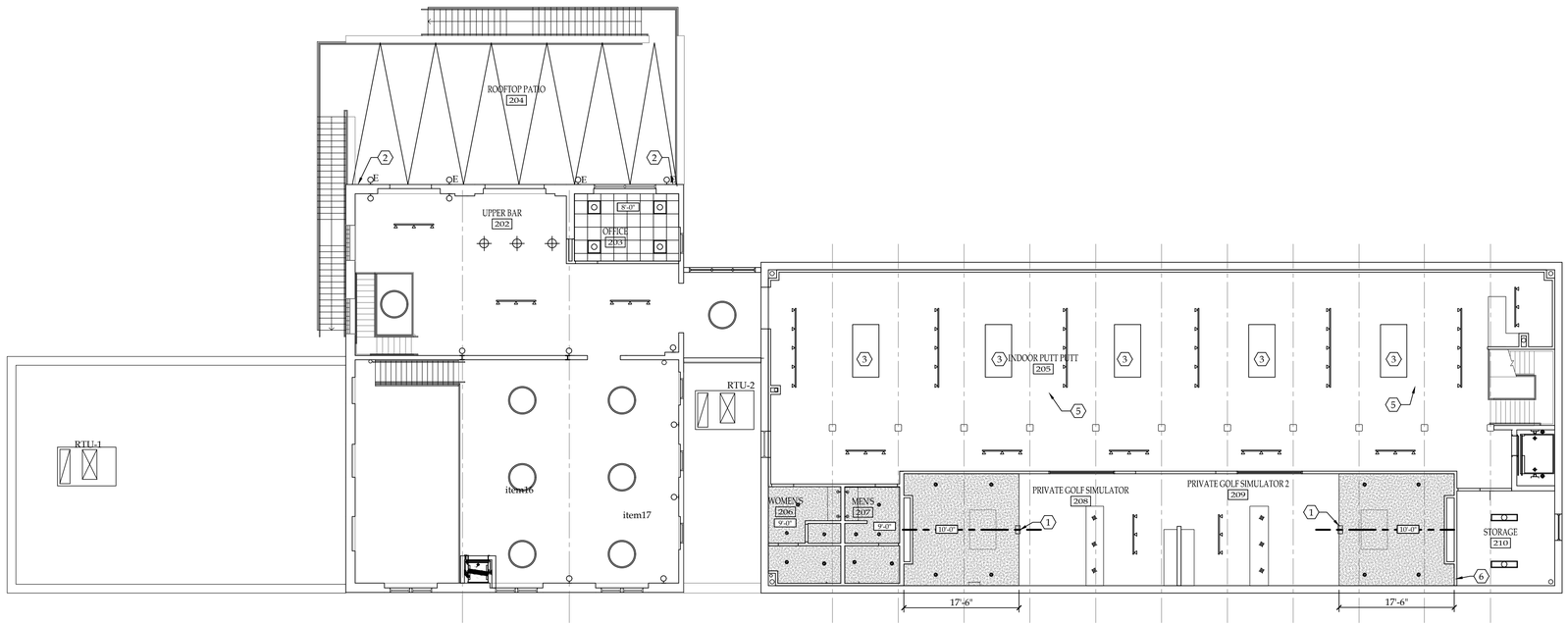
SYMBOL	DESCRIPTION
⊠	DECORATIVE MINI PENDANT LIGHT.
⊕	BAR PENDANT.
▭	24" x 24" RECESSED LED LIGHT FIXTURE SEE ELEC.
▭	12" x 48" RECESSED LED LIGHT FIXTURE SEE ELEC.
▭	24" x 48" RECESSED LED LIGHT FIXTURE SEE ELEC.
⊛	ROUND SURFACE MOUNTED LED CEILING FIXTURE, SEE ELEC.
⊕	WALL SCONCE, COORD W ELEC DWGS. STYLE TBD
▯	FELT ACOUSTICAL PANEL. BASIS OF DESIGN:
⊕ E	EXTERIOR RATED WALL SCONCE. COORD W ELEC DWGS. STYLE TBD
⊛	VESTIBULE DECORATIVE CEILING LIGHT
◎	DINING/BANQUET DECORATIVE CEILING LIGHT
◎	DINING AND DINING LOFT DECORATIVE CEILING LIGHT
▨	GWB-1 GYPSUM BOARD CEILING OR SOFFIT (MOISTURE RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS)
▦	ACT-1 24"x24" SCRUBBABLE/WASHABLE ACOUSTICAL CEILING TILE
△△△	OVERHEAD TRACK LIGHTING
X'-X"	CEILING HEIGHT IDENTIFIER

GENERAL NOTES:

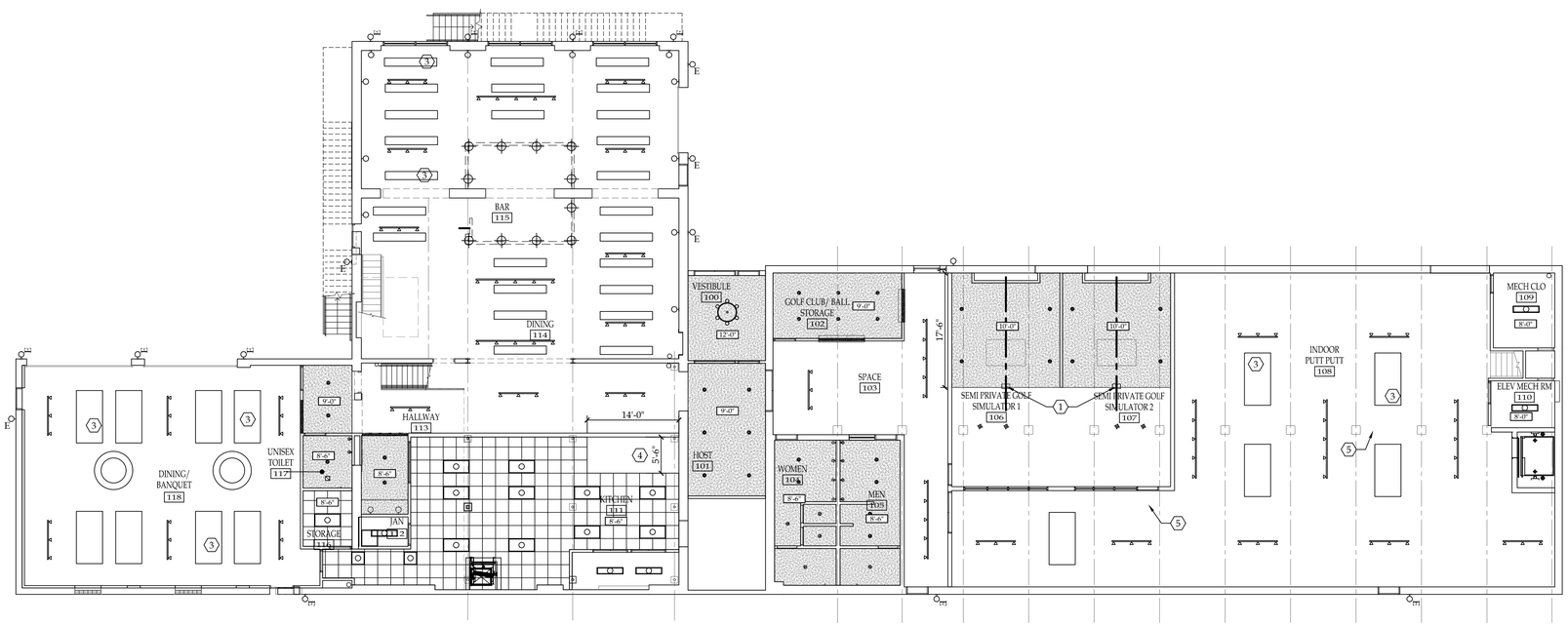
1. ALL WORK TO BE COORDINATED WITH OWNER/TENANT LEASE AGREEMENT.
2. COORDINATE WITH MEP/FP CONSULTANT DRAWINGS
3. COORDINATE WITH TENANT'S KITCHEN HOOD CONSULTANT DRAWINGS
4. ALL EXPOSED CEILING/STRUCTURE TO BE PAINTED SHERWIN WILLIAMS IRON ORE
5. ALL EXPOSED MECHANICAL DUCTWORK TO MATCH SW IRON ORE.
6. PROVIDE UV LIGHTING FOR GLOW IN THE DARK INDOOR PUTT PUTT. COORD W ELEC DWGS & TENANT'S PUTT PUTT COURSE DESIGNER
7. COORDINATE MURAL DESIGN IN INDOOR PUTT PUTT AREAS WITH TENANT

(X) KEYED NOTES:

1. CEILING MOUNTED PROJECTOR SYSTEM PER REQUIREMENTS OF MANUFACTURER. TO BE PURCHASED BY TENANT. INSTALLED BY CONTRACTOR. COORDINATE WITH ELECTRICAL PLANS PROVIDED BY MEP CONSULTANT.
2. PATIO STRING LIGHTS (BY TENANT), CONTRACTOR TO PROVIDE POWER. COORD W ELEC DWGS
3. ACOUSTIC CEILING PANELS. RE: FINISH SCHEDULE
4. KITCHEN HOOD, RE: OWNER'S KITCHEN HOOD CONSULTANT DWGS
5. INDOOR PUTT PUTT TO RECEIVE UV/BLACK LIGHTING. COORD W/ELEC DWGS
6. PROVIDE WALL ACCESS DOOR FOR ABOVE CEILING ACCESS TO GOLF SIMULATOR EQUIPMENT



C5 PROPOSED SECOND FLOOR REFLECTED CEILING PLAN
3/32" = 1'-0"



A5 PROPOSED FIRST FLOOR REFLECTED CEILING PLAN
3/32" = 1'-0"

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

OVERALL FIRST & SECOND FLOOR REFLECTED CEILING PLANS

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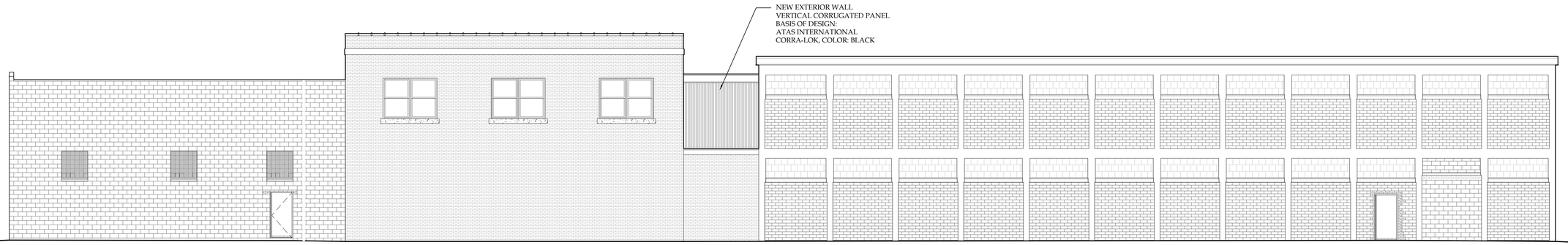
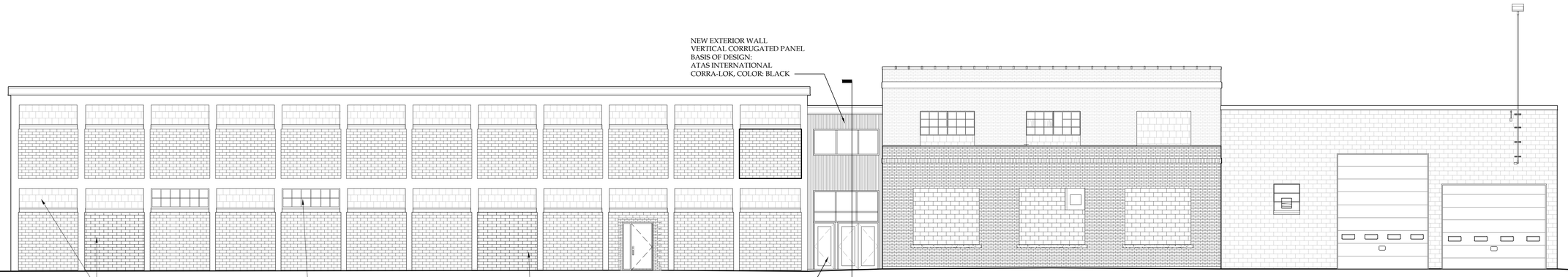
SA JOB #: 22073.03

DATE: 1/12/26

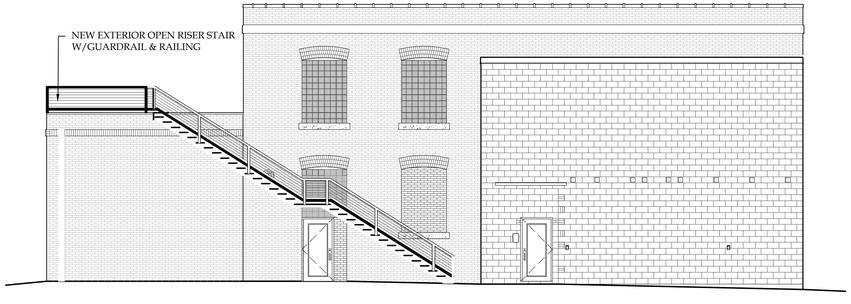
DRAWING #: A-110



D1 SOUTH ELEVATION PROPOSED
1/8" = 1'-0"



B1 NORTH ELEVATION PROPOSED
1/8" = 1'-0"



A1 WEST ELEVATION PROPOSED
1/8" = 1'-0"

GENERAL NOTES:

1. DETERIORATED MORTAR JOINTS ARE TO BE SELECTIVELY RAKED OUT AND REPOINTED WITH NEW MORTAR TO MATCH EXISTING IN COMPOSITION, COLOR, TEXTURE, AND TOOLING. SHOULD ANY BRICKS BE CRACKED, BROKEN, OR SPALLED, THEY WILL BE REPLACED TO MATCH THE ADJACENT BRICKS AS CLOSELY AS POSSIBLE IN ALL QUALITIES INCLUDING DIMENSIONS, COLOR, STRENGTH, AND REFLECTIVITY. ANY SALVAGED BRICKS WILL BE USED TO THE GREATEST EXTENT POSSIBLE.

2. WASH ALL MASONRY 100%

3. ANY SILLS THAT ARE LOOSE, BUT SALVAGEABLE WILL BE CA EFULLY REMOVED AND RESET AS REQUIRED.

4. STEP CRACK IN BRICKWORK - REPLACE CRACKED BRICKS AND REPOINT CRACKED MORTAR.

5. RUST JACKING OCCURRING AT EXISTING STEEL LINTEL. REMOVE ±3 COURSES OF BRICK. REPLACE LINTEL WITH NEW GALVANIZED STEEL LINTEL. INSTALL THRU-WALL FLASHING. REPLACED DAMAGED BRICK PER NOTE 1.

6. ANY WINDOW REPLACEMENT WORK TO BE COORDINATED WITH OWNER AND TENANT

NOTICE
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Buffalo Puttz
201 Ganson Street,
Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

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SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____
DRAFTER _____
JOB CAPT. W. Manhardt
INTERIORS S. Shank

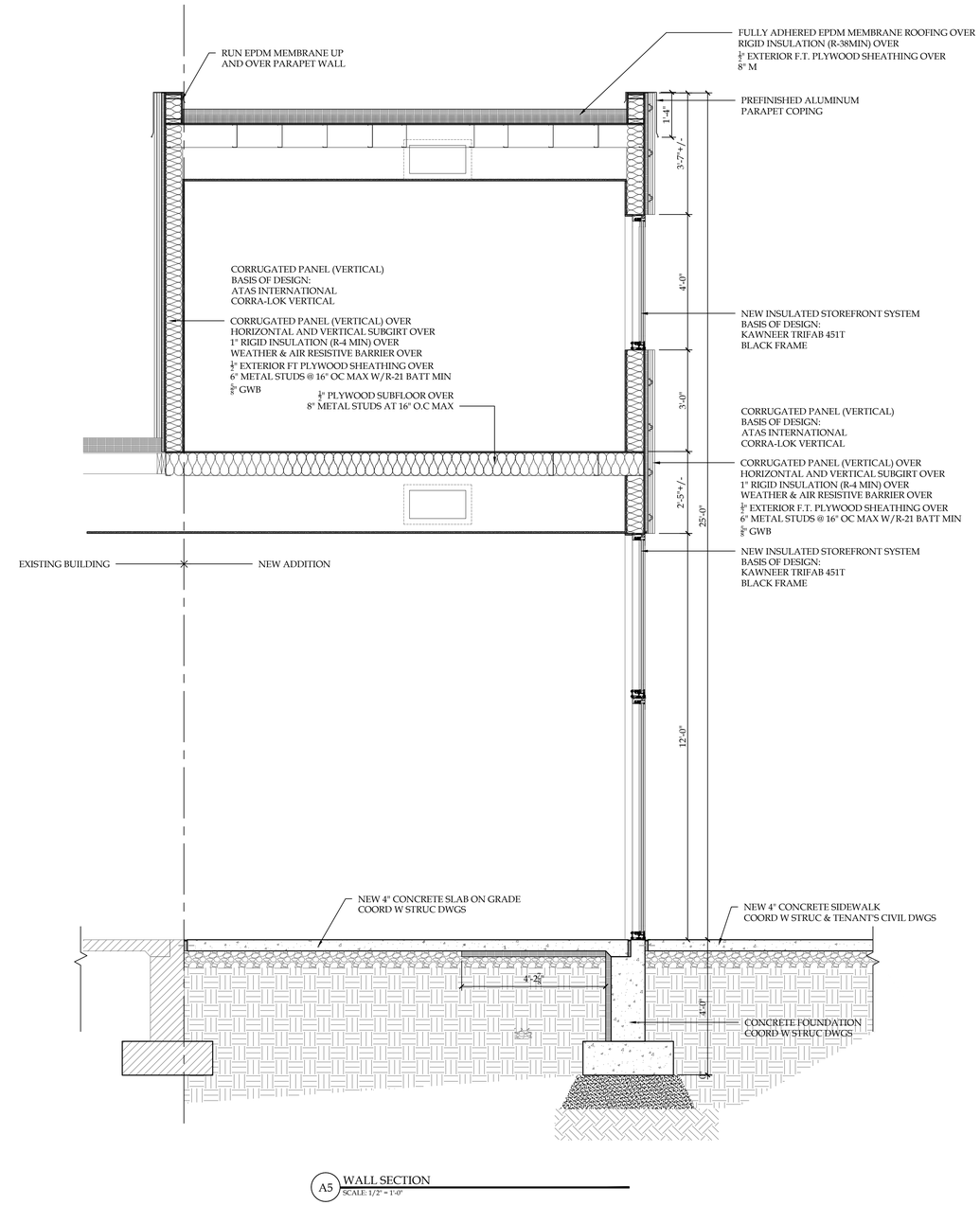
SEAL:

TITLE:
PROPOSED EXTERIOR ELEVATIONS

SILVESTRI
ARCHITECTS • PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-200



A5 WALL SECTION
SCALE: 1/2" = 1'-0"

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INTERIORS S. Shank

SEAL:

TITLE:
WALL SECTION

SILVESTRI
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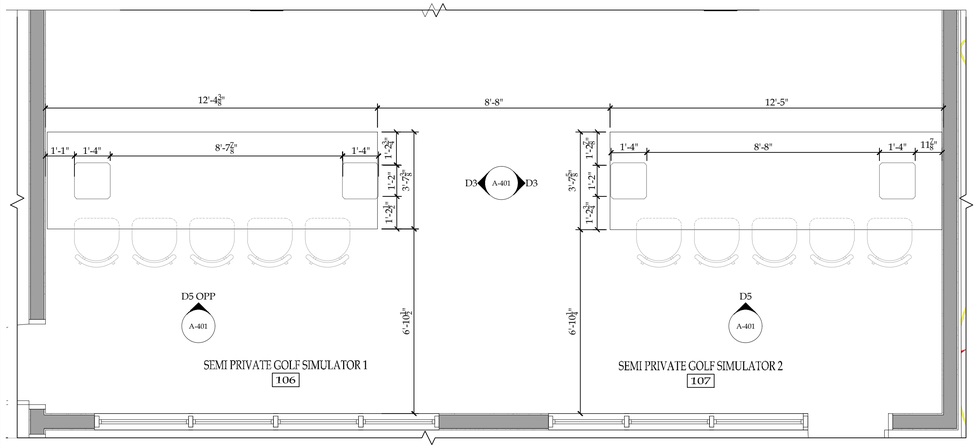
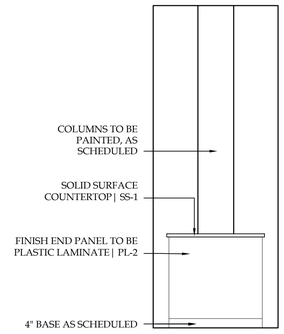
AMHERST, NY 14221 FAX 716.691.4773

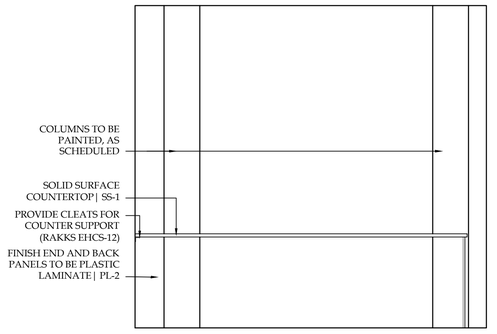
SA JOB #: 22073.03
DATE: 1/12/26
DRAWING #: A-300



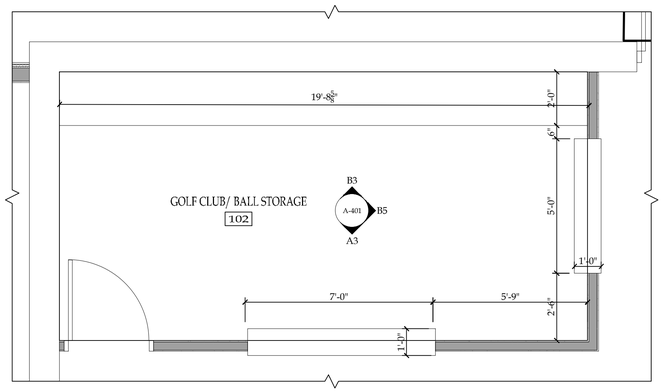
D1 ENLARGED PLAN | SEMI PRIVATE GOLF SIMULATORS 1 & 2
3/8"=1'-0"



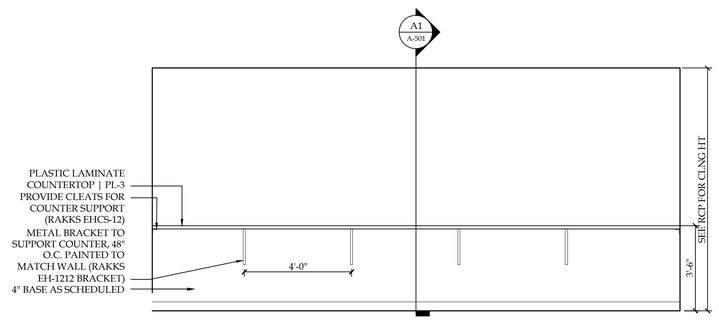
D3 ELEVATION | SEMI PRIVATE GOLF SIMULATORS 1 & 2
3/8"=1'-0"



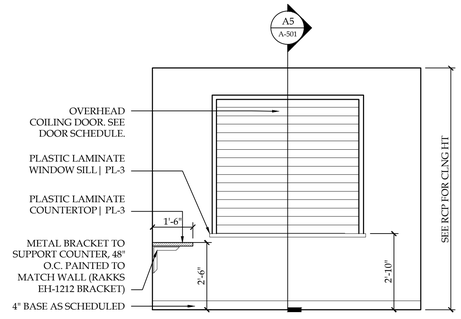
D5 ELEVATION | SEMI PRIVATE GOLF SIMULATORS 1 & 2
3/8"=1'-0"



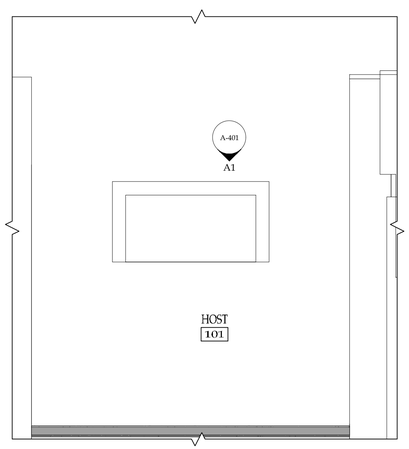
B1 ENLARGED PLAN | CLUB/BALL STORAGE
3/8"=1'-0"



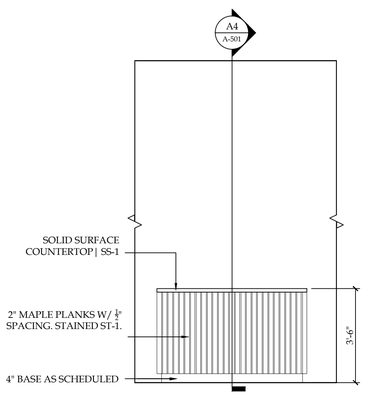
B3 ELEVATION | CLUB/BALL STORAGE
3/8"=1'-0"



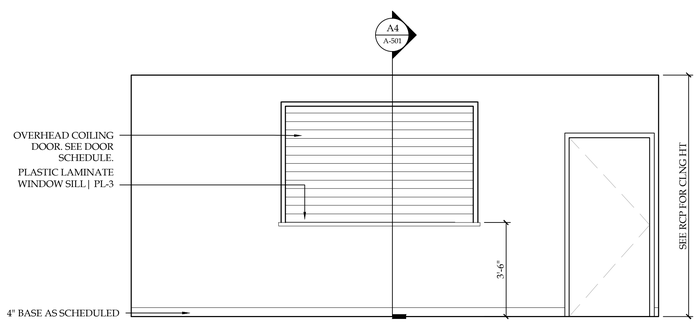
B5 ELEVATION | CLUB/BALL STORAGE
3/8"=1'-0"



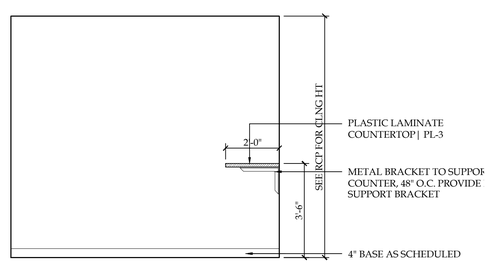
A1 ENLARGED PLAN | HOST 101
3/8"=1'-0"



A1 ELEVATION | HOST
3/8"=1'-0"



A3 ELEVATION | CLUB/BALL STORAGE
3/8"=1'-0"



A5 ELEVATION | CLUB/BALL STORAGE
3/8"=1'-0"

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PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
ENLARGED PLANS & ELEVATIONS

SILVESTRI
ARCHITECTS • PC
1321 MILLERSPORT HWY AMHERST, NY 14221
PH. 716.691.0900
FAX 716.691.4773

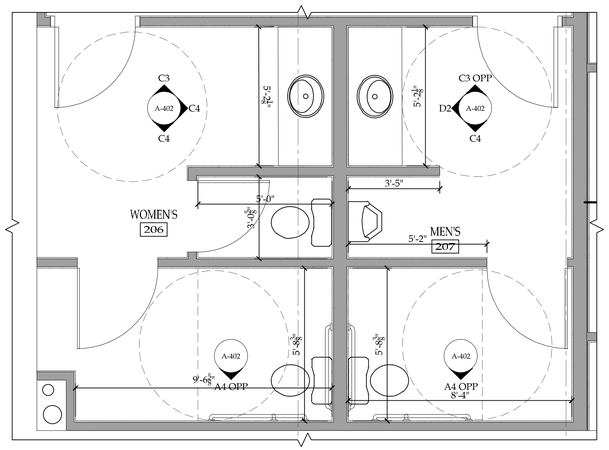
SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-401

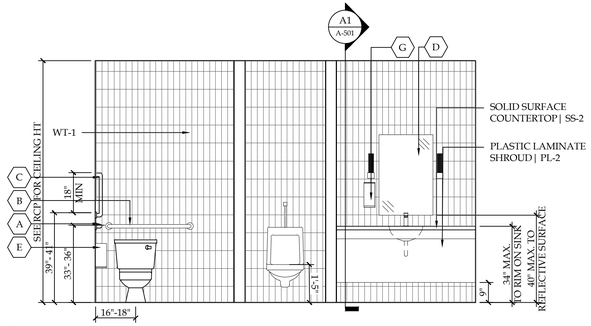
ACCESSORIES SCHEDULE

MARK	ITEM	MODEL #	SUPPLIER	BACKUP SUPPORT	LOCATION/NOTES
A	42" MIN HORIZONTAL GRAB BAR	3001-42	AMERICAN SPECIALTIES, INC.	PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS	SEE DRAWING FOR LOCATIONS
B	36" MIN HORIZONTAL GRAB BAR	3001-36	AMERICAN SPECIALTIES, INC.	PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS	SEE DRAWING FOR LOCATIONS
C	18" MIN VERTICAL GRAB BAR	3001-18	AMERICAN SPECIALTIES, INC.	PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS	SEE DRAWING FOR LOCATIONS
D	FRAMELESS POLISHED PLATE GLASS MIRROR- ¼" THICK	8287	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS	DIMENSIONS: 24" WIDE X 36" HIGH SEE DRAWING FOR LOCATIONS
E	TOILET TISSUE DISPENSER	0042	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS	SEE DRAWING FOR LOCATIONS
F	SURFACE MOUNTED SANITARY WASTE RECEPTACLE	20852	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS	WOMENS/UNISEX
G	SURFACE MOUNTED AUTOMATIC HAND SOAP DISPENSER	0360	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS	SEE DRAWING FOR LOCATIONS. OPERABLE POINT LOCATED NO HIGHER THAN 48" AFF.
H	TRADITIONAL PAPER TOWEL DISPENSER (C-FOLD) SURFACE MOUNTED, STAINLESS STEEL	0210	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS	SEE DRAWING FOR LOCATIONS
I	SURFACE MOUNTED COAT HOOK AND BUMPER	0714	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS	BACK OF RESTROOM DOORS
J	TOILET PARTITIONS/URINAL SCREEN		GLOBAL PARTITIONS	PER MANUFACTURER'S REQUIREMENTS	FLOOR ANCHORED/OVERHEAD BRACED. REFER TO DRAWINGS. POWDER COATED STEEL FINISH: COLOR TBD URINAL SCREEN TO BE POST MOUNTED

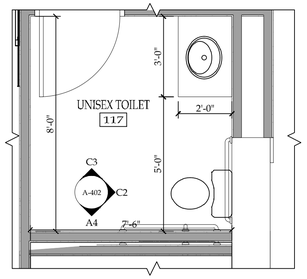
GENERAL NOTE: ALL WOOD BLOCKING TO BE FIRE TREATED



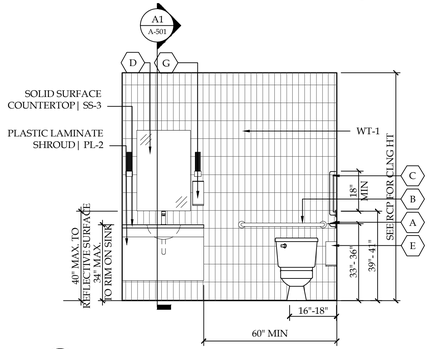
D1 ENLARGED PLAN | WOMEN 206 & MEN 207
3/8"=1'-0"



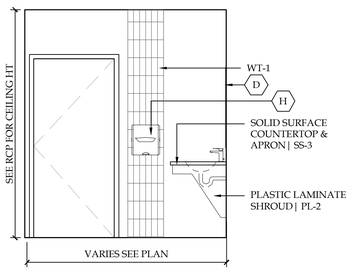
D2 ELEVATION | WOMEN 206
3/8"=1'-0"



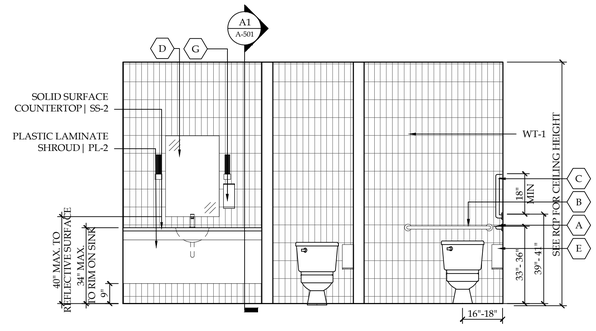
C1 ENLARGED PLAN | UNISEX 117
3/8"=1'-0"



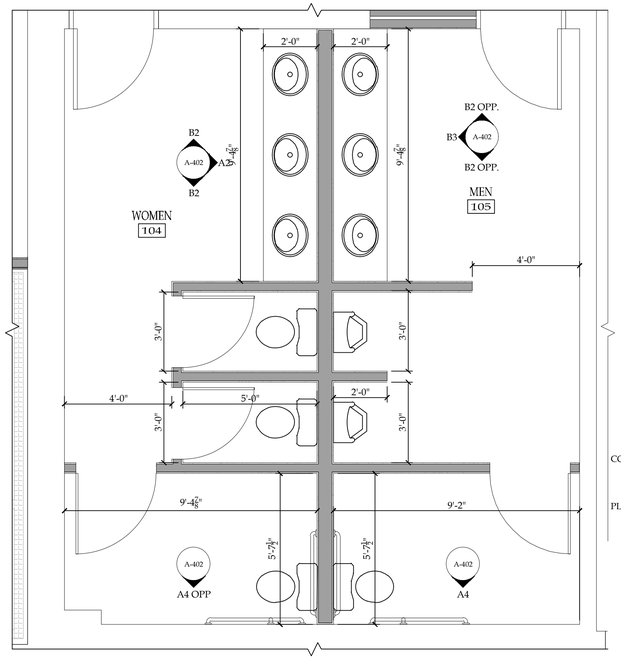
C2 ELEVATION | UNISEX 117
3/8"=1'-0"



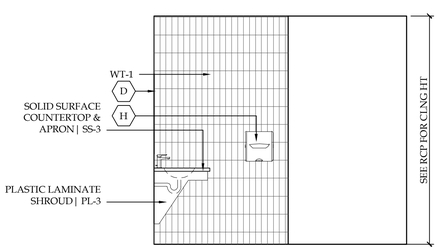
C3 ELEVATION | UNISEX 117
3/8"=1'-0"



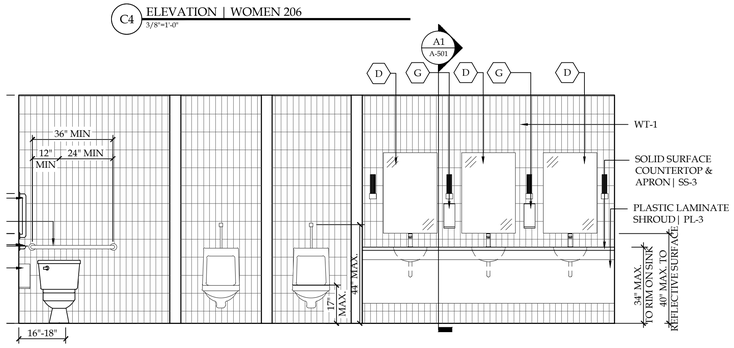
C4 ELEVATION | WOMEN 206
3/8"=1'-0"



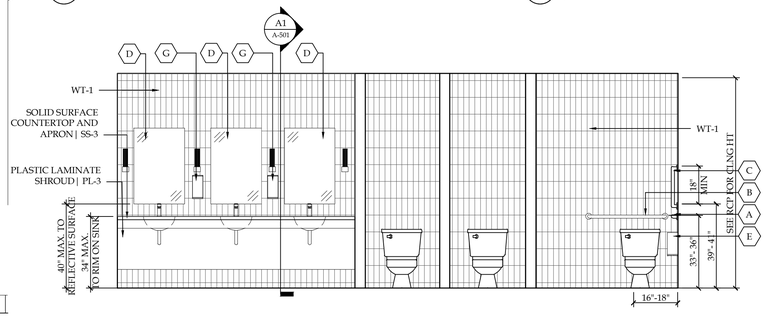
A1 ENLARGED PLAN | WOMEN 104 & MEN 105
3/8"=1'-0"



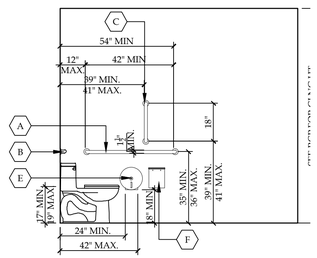
B2 ELEVATION | WOMEN 104 & MEN 105
3/8"=1'-0"



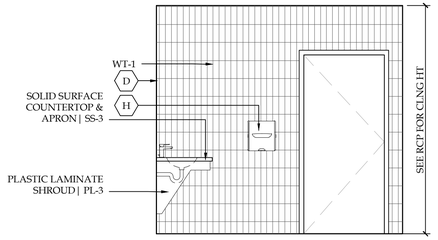
B3 ELEVATION | MEN 105
3/8"=1'-0"



A2 ELEVATION | WOMEN 104
3/8"=1'-0"



A4 ELEVATION | TYPICAL RESTROOM
3/8"=1'-0"



B3 ELEVATION | MEN 105
3/8"=1'-0"

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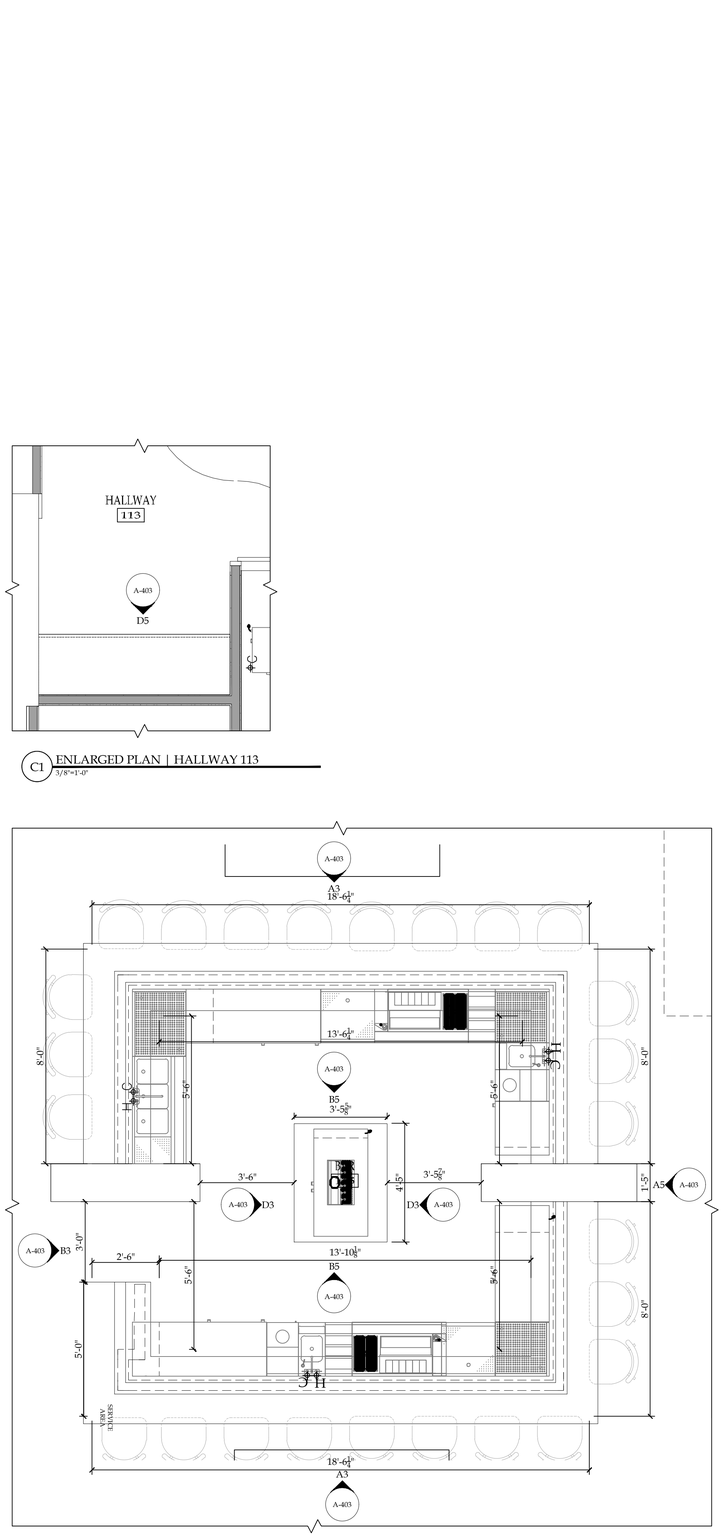
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03

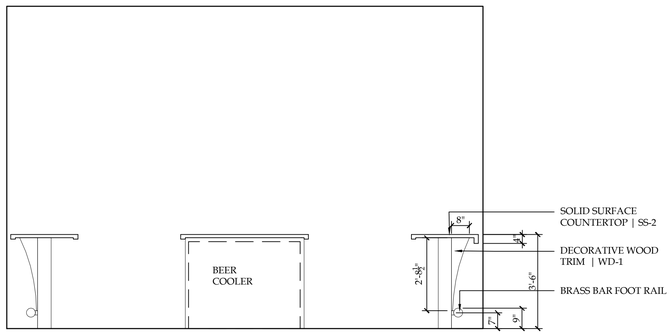
DATE: 1/12/26

DRAWING #: A-402

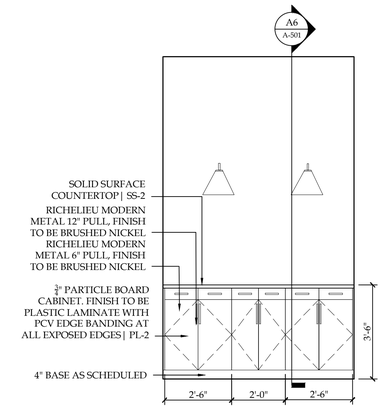
C1 ENLARGED PLAN | HALLWAY 113
3/8"=1'-0"



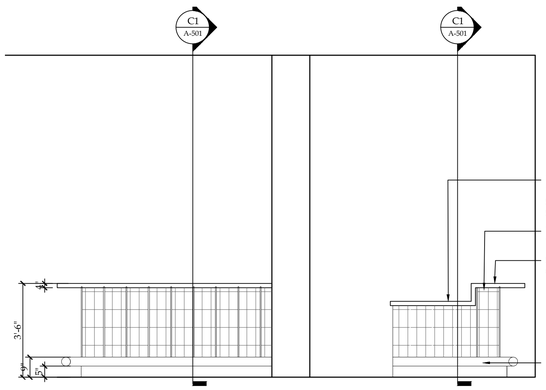
A1 ENLARGED PLAN | BAR 115
3/8"=1'-0"



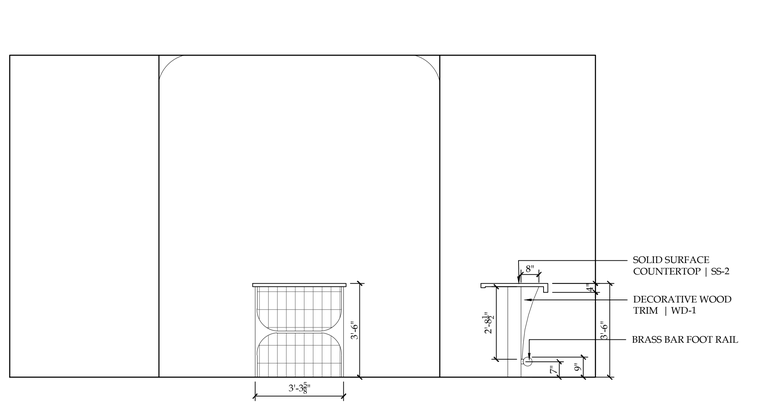
D3 ELEVATION | BAR 115
3/8"=1'-0"



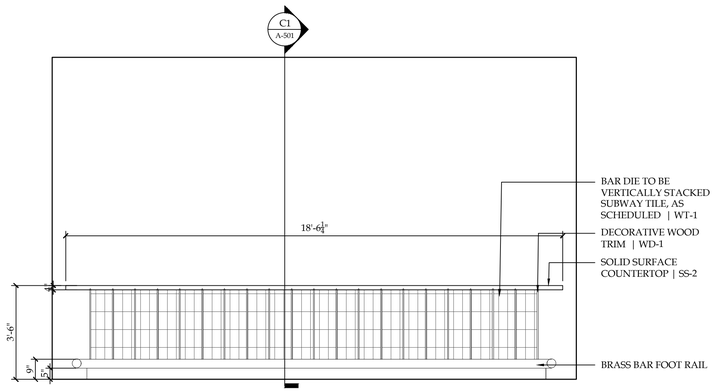
D3 ELEVATION | HALLWAY 113
3/8"=1'-0"



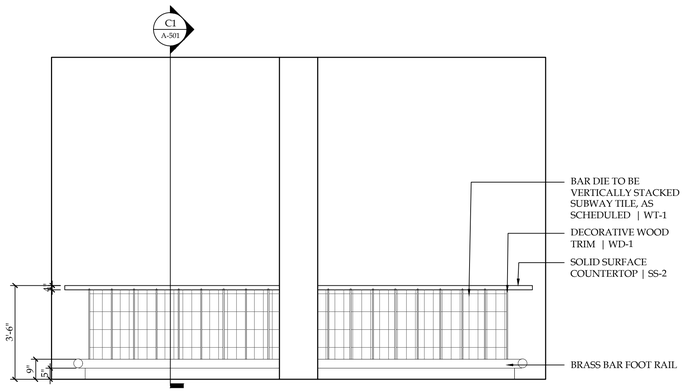
B3 ELEVATION | BAR 115
3/8"=1'-0"



B5 ELEVATION | BAR 115
3/8"=1'-0"



A3 ELEVATION | BAR 115
3/8"=1'-0"



A5 ELEVATION | BAR 115
3/8"=1'-0"

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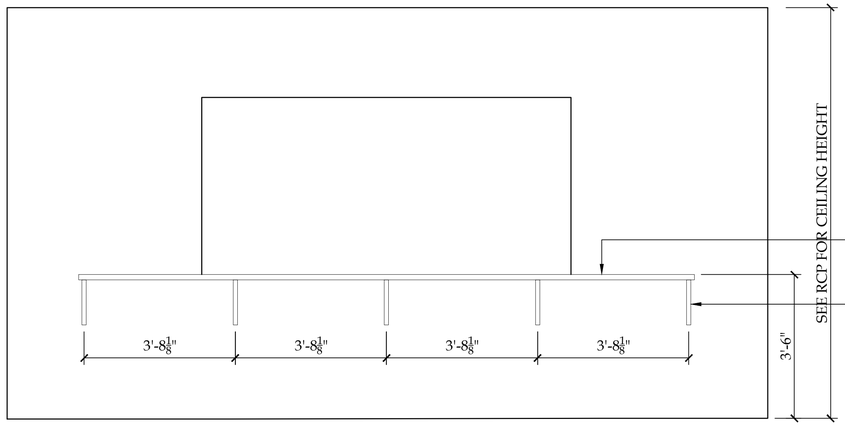
FAX 716.691.4773

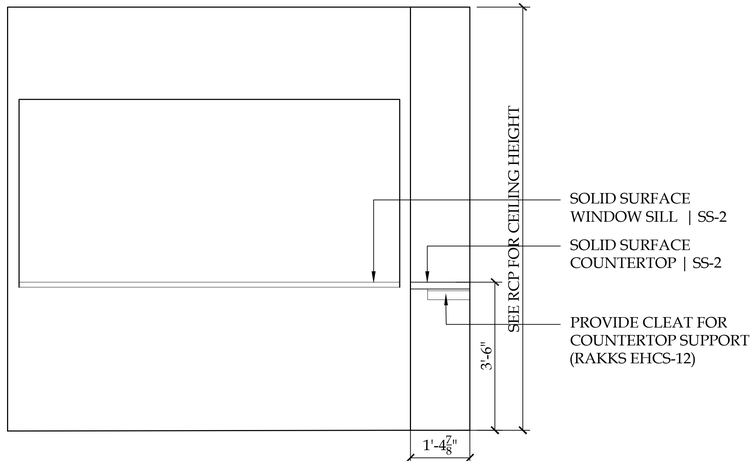
SA JOB #: 22073.03

DATE: 1/12/26

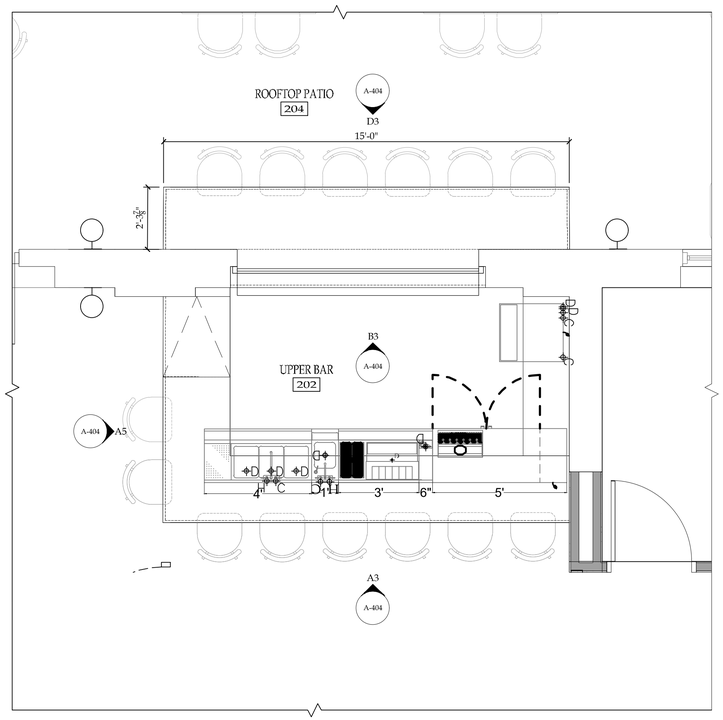
DRAWING #: A-403



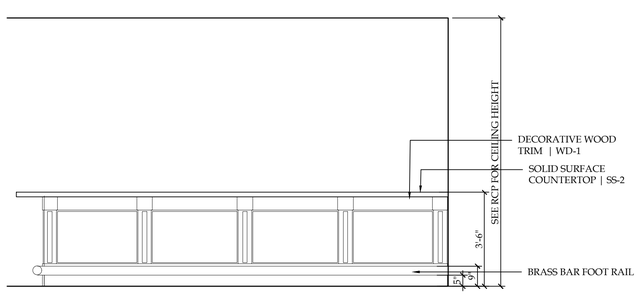
D3 ELEVATION | ROOF TOP PATIO 204
3/8"=1'-0"



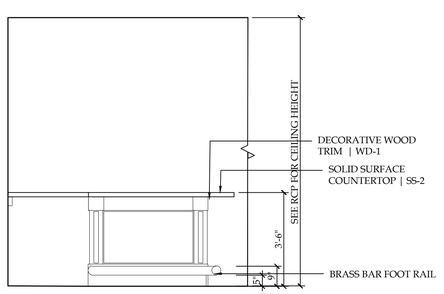
B3 ELEVATION | UPPER BAR 202
3/8"=1'-0"



A1 ENLARGED PLAN | UPPER BAR 202
3/8"=1'-0"



A3 ELEVATION | UPPER BAR 202
3/8"=1'-0"



A5 ELEVATION | UPPER BAR 202
3/8"=1'-0"

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Buffalo, NY 14202

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JOB CAPT. W. Manhardt
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DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
ENLARGED PLANS & ELEVATIONS

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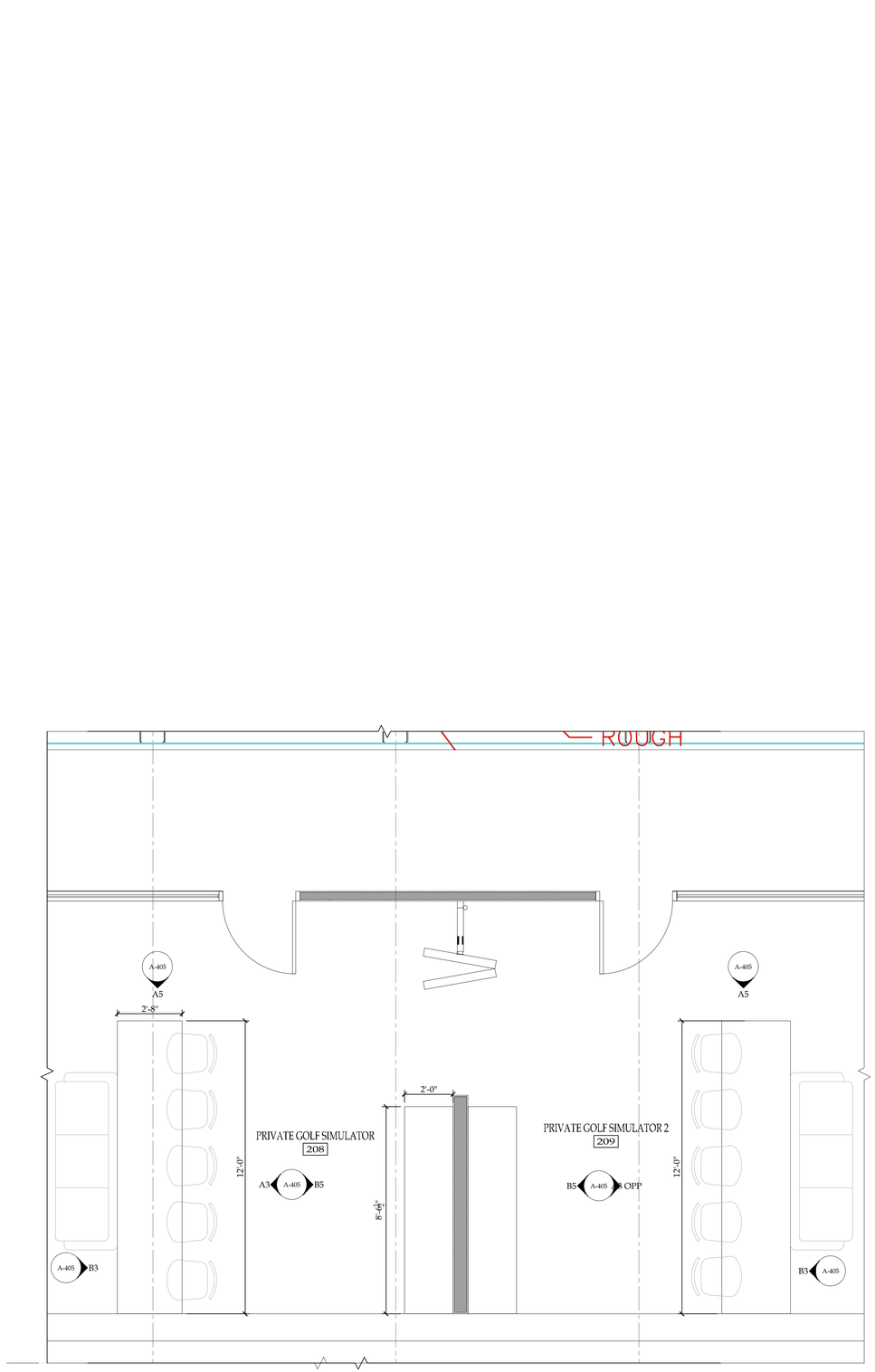
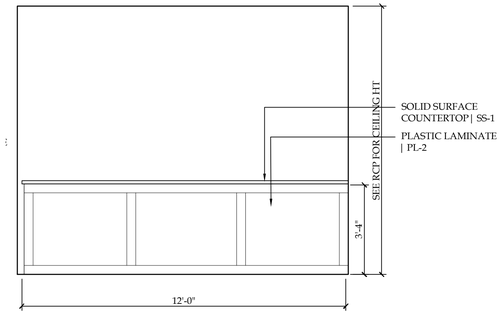
SA JOB #: 22073.03
DATE: 1/12/26

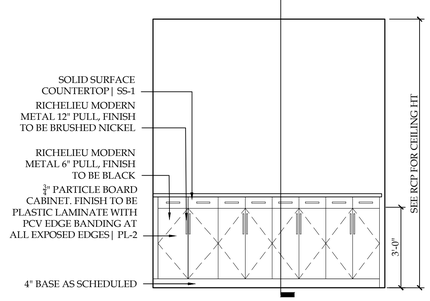
DRAWING #: A-404



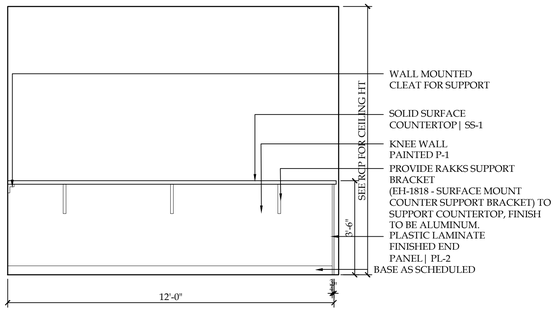
A1 ENLARGED PLAN | PRIVATE GOLF SIMULATOR 208 & 209
3/8"=1'-0"



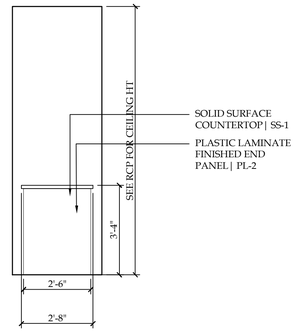
B3 ELEVATION | PRIVATE GOLF SIMULATOR 208 & 209
3/8"=1'-0"



B5 ELEVATION | PRIVATE GOLF SIMULATOR 208 & 209
3/8"=1'-0"



A3 ELEVATION | PRIVATE GOLF SIMULATOR 208 & 209
3/8"=1'-0"



A5 ELEVATION | PRIVATE GOLF SIMULATOR 208 & 209
3/8"=1'-0"

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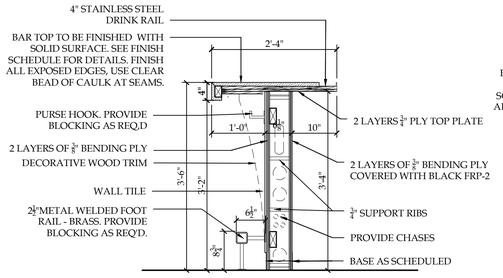
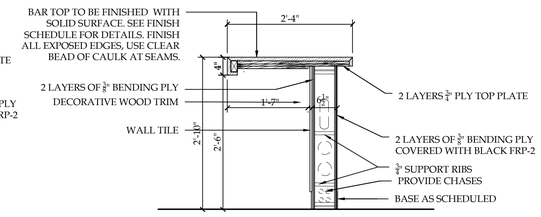
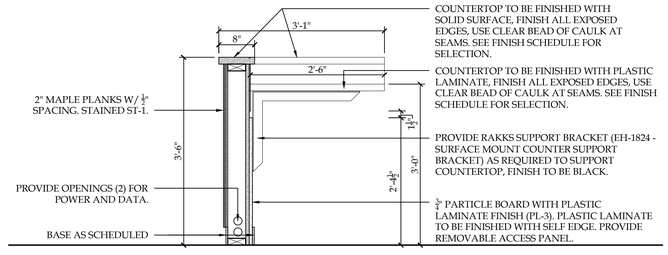
NOTE: ALL WOOD BLOCKING AND FRAMING TO BE FIRE TREATED.



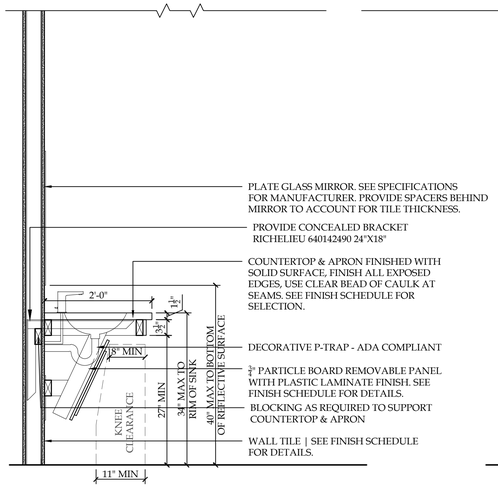
C1 MILLWORK SECTION | BAR 115
3/4"=1'-0"



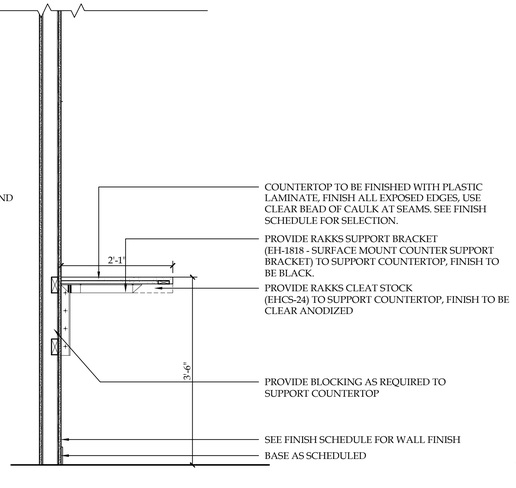
A2 MILLWORK SECTION | BAR 115
3/4"=1'-0"



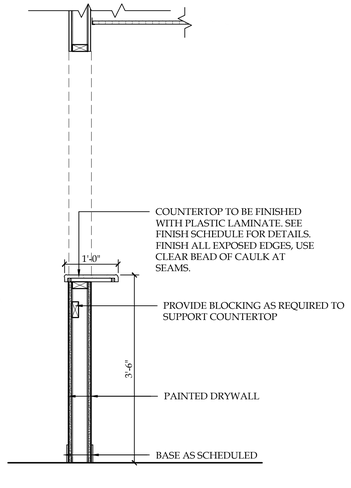
A4 MILLWORK SECTION | HOST 101
3/4"=1'-0"



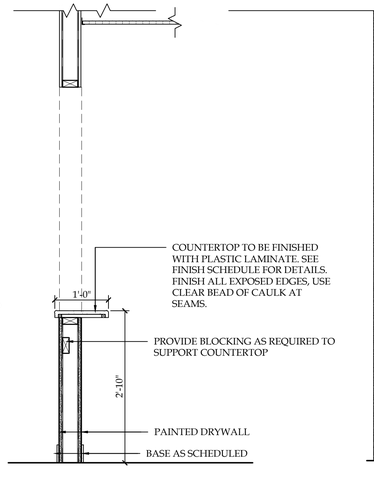
A1 MILLWORK SECTION | RESTROOM TYP.
3/4"=1'-0"



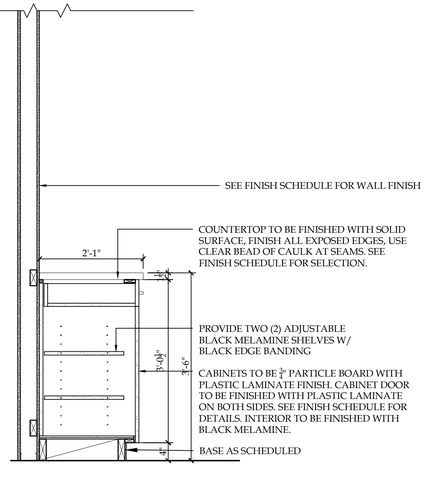
A2 MILLWORK SECTION | GOLF CLUB STORAGE 102
3/4"=1'-0"



A4 MILLWORK SECTION | GOLF CLUB STORAGE 102
3/4"=1'-0"



A5 MILLWORK SECTION | GOLF CLUB STORAGE 102
3/4"=1'-0"



A6 MILLWORK SECTION | HALLWAY 113
3/4"=1'-0"

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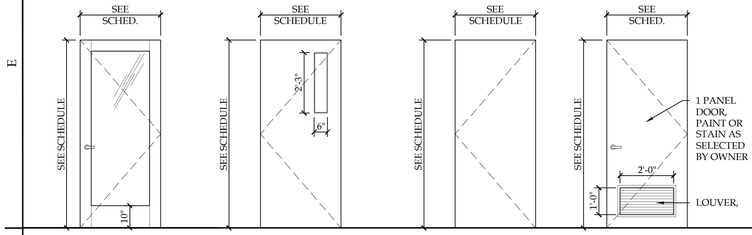
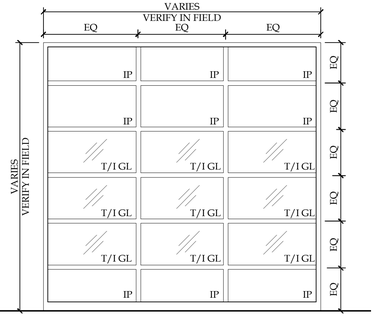


FG FULL GLASS MEDIUM STILE

V FLUSH DOOR W VISION PANEL

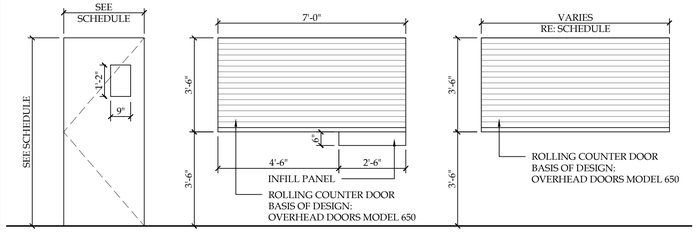
F FLUSH DOOR

L FLUSH DOOR LOUVERED



OH INSUALTED ALUMINUM SECTIONAL DOOR

PROVIDE ALTERNATE 1 TO REPLACE EXISTING OVERHEAD DOORS AS NOTED ON DOOR SCHEDULE.
BASIS OF DESIGN:
OVERHEAD DOOR, MODEL 521, ¾" INSULATED GLAZING UNIT, ¾" EPS INSULATED PANELS, COLOR BLACK

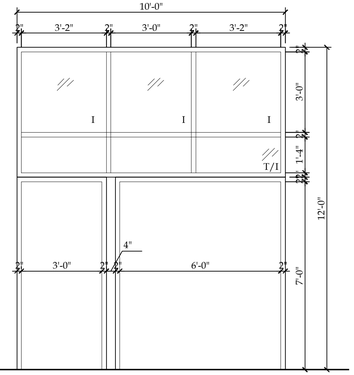


K KITCHEN

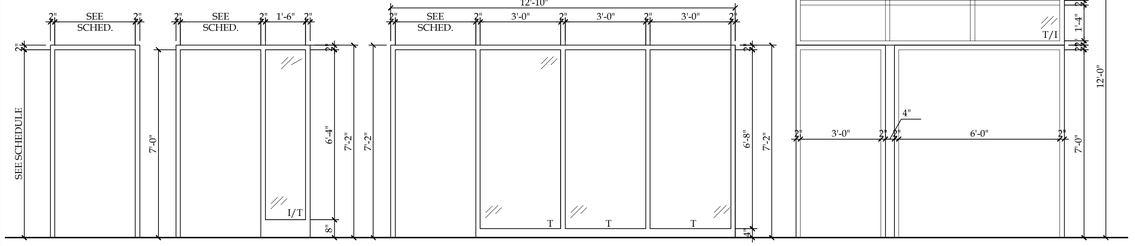
RC-1 ROLLING COUNTER 2

RC-1 ROLLING COUNTER 2

D1 DOOR TYPES
3/8" = 1'-0"

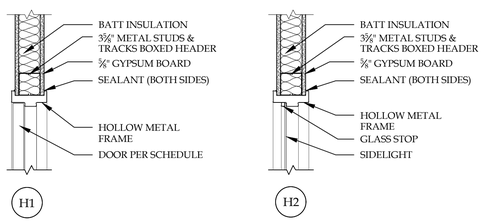


GLASS SAFETY MARKINGS, 4" DIA MIN AT 30-36" AFF AND 60-66" AFF. DESIGN TO BE COORDINATE WITH OWNER.

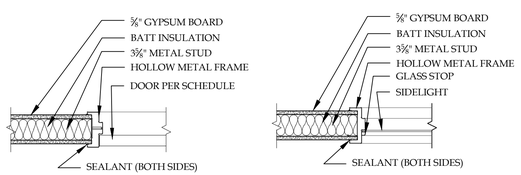


A B C D

C3 FRAME TYPES
3/8" = 1'-0"



H1 H2



J1 J2

C1 HEAD & JAMB DETAILS
1" = 1'-0"

MATERIAL LEGEND:

ALUM	ALUMINUM
GL	GLASS
SCW	SOLID CORE WOOD
HM	HOLLOW METAL
T/I	TEMPERED/INSULATED
C/T	CLEAR TEMPERED
IP	INSULATED PANELS

GENERAL NOTES:

1. ALL DOOR AND FRAME FIRE RATINGS SHALL BE IN COMPLIANCE WITH LOCAL CODES AND JURISDICTIONS
2. PROVIDE SMOKE SEALS/GASKETING WHERE REQUIRED
3. PROVIDE WALL STOPS FOR ALL DOORS, UNLESS NOTED OTHERWISE
4. PROVIDE WEATHERSTRIPPING AND THRESHOLD AT ALL EXTERIOR DOORS AS REQUIRED
5. PROVIDE KICKPLATES WHERE REQUIRED
6. DOOR SECURITY HARDWARE TO BE COORDINATE WITH SECURITY CONSULTANT; FINAL KEYING AND FUNCTION TO BE COORDINATED WITH OWNER
7. PROVIDE SILENCERS ON ALL DOORS WITHOUT WEATHER STRIPPING OR SEALS
8. FIRE RATED DOORS SHALL COMPLY WITH THE LOCAL FIRE AUTHORITY FOR FORCE REQUIRED TO OPEN THE DOOR IF NOT AT 5 LBS.

DOOR AND FRAME SCHEDULE

LEVEL	MARK	LOCATION	DOOR TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	DOOR GLASS	FRAME TYPE	FRAME MATL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FIRE RATING LABEL	HARD WARE SET	NOTES
FIRST FLOOR	101	BAR	FG	3'-0"	7'-0"	1-3/4"	IHM		A	HM	H1	J1		13	1
	102	BAR	FG	3'-4"	7'-0"	1-3/4"	IHM		A	HM	H1	J1		13	
	103	HALLWAY	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		4	
	104	DINING/BANQUET	F	5'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		--	
	105	UNISEX TOILET	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		5	
	106	DINING/BANQUET	K	3'-0"	7'-0"	1-3/4"	AL/SCWD		A	HM	H1	J1		14	5
	107	STORAGE	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		2	
	108	JAN CLOSET	F	3'-0"	7'-0"	1-3/4"	HM		A	HM	H1	J1		2	
	109	KITCHEN	K	(2)3'-0"	7'-0"	1-3/4"	AL/SCWD		A	HM	H1	J1		8	5
	110	KITCHEN	F	(2)2'-6"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		12	
	111	KITCHEN	F	(2)2'-6"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		12	
	112	WOMEN'S RM	L	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		5	
	113	VESTIBULE	FG	(2)3'-0"	7'-0"	1-3/4"	ALUM		D	ALUM	--	--			
	114	VESTIBULE	FG	3'-0"	7'-0"	1-3/4"	ALUM		D	ALUM	--	--			
	115	VESTIBULE	FG	(2)3'-0"	7'-0"	1-3/4"	ALUM		D	ALUM	--	--		7	1
	116	VESTIBULE	FG	3'-0"	7'-0"	1-3/4"	ALUM		D	ALUM	--	--		13	1
	117	HOST	FG	(2)3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		9	
	118	GOLF CLUB/BALL STORAGE	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		2	
	119	WOMEN'S BATHROOM	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		3	
	120	MEN'S BATHROOM	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		3	
	121	HALLWAY 121	FG	3'-0"	7'-0"	1-3/4"	IHM		B	HM	H1	J1		13	1, 4
	122	SEMI PRIVATE GOLF SIMULATOR 1	V	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		15	
	123	INDOOR PUTT PUTT	V	(2)3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		11	
	124	HALLWAY 103	F	3'-0"	7'-0"	1-3/4"	IHM		A	HM	H1	J1		6	1
	125	SEMI PRIVATE GOLF SIMULATOR 2	V	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		15	
	126	ELEV MACH ROOM	F	3'-0"	7'-0"	1-3/4"	HM		A	HM	H1	J1		2	
	127	MEN'S RM	L	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		5	
	128	DINING	OH	10'-0"	7'-0"	1-3/4"	EXIST		A	--	--	--		--	2, 6
	129	DINING/ BANQUET	OH	14'-0"	7'-0"	1-3/4"	EXIST		A	--	--	--		--	2, 6
	130	DINING/ BANQUET	OH	16'-0"	7'-0"	1-3/4"	EXIST		A	--	--	--		--	2, 6
	131	DINING/ BANQUET	FG	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		13	1
	132	DINING/ BANQUET	F	3'-0"	7'-0"	1-3/4"	IHM		A	HM	H1	J1		6	1
	133	INDOOR PUTT PUTT	F	3'-0"	7'-0"	1-3/4"	IHM		A	HM	H1	J1		6	1
	134	GOLF STORAGE	RC-1	7'-0"	3'-6"	1-3/4"	--		A	--	--	--		--	7
	135	GOLF STORAGE	RC-2	5'-0"	3'-6"	1-3/4"	--		A	--	--	--		--	7
	136	MECH CLO	F	3'-0"	7'-0"	1-3/4"	HM		A	HM	H1	J1		2	
SECOND FLOOR	201	UPPER BAR	FG	(2)3'-0"	7'-0"	1-3/4"	IHM		A	HM	H1	J1		7	1
	202	OFFICE	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		1	
	203	INDOOR PUTT PUTT	V	(2)2'-10"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		11	
	204	WOMEN'S BATHROOM	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		3	
	205	MEN'S BATHROOM	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		3	
	206	WOMEN'S BATHROOM	L	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		5	
	207	WOMEN'S BATHROOM	L	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		5	
	208	MEN'S BATHROOM	L	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		5	
	209	STORAGE	F	3'-0"	7'-0"	1-3/4"	SCWD		A	HM	H1	J1		2	
	210	PRIVATE GOLF SIMULATOR	V	8'-0"	7'-0"	1-3/4"	SCWD		C	HM	H1	J1		15	
	211	PRIVATE GOLF SIMULATOR 2	V	8'-0"	7'-0"	1-3/4"	SCWD		C	HM	H1	J1		15	
	212	PRIVATE GOLF SIMULATOR 2	OP	8'-0"	10'-0"	1-3/4"	--		--	HM	--	--		--	3
	213	GOLF STORAGE	RC-2	9'-0"	3'-6"	1-3/4"	--		A	--	--	--		--	7

DOOR SCHEDULE NOTES:
1. EXTERIOR INSULATED DOOR
2. EXISTING OVERHEAD DOOR TO REMAIN. PROVIDE ALTERNATE 1 PRICING TO REPLACE DOOR WITH INSULATED GLASS SECTIONAL DOORS W AUTOMATIC DOOR OPENERS AND ACCESSORIES NEEDED FOR OPERATION.
3. OP = OPERABLE PARTITION. BASIS OF DESIGN: OPERABLE WALL PARTITION, 56 STC MINIMUM. BASIS OF DESIGN: KWIKWALL, 3000 SERIES, MANUAL
4. PROVIDE CARD READER ACCESS, BY OTHERS
5. COMMERCIAL KITCHEN DOOR. BASIS OF DESIGN ELIASON CROP, SCP-4 ALUMINUM TRAFFIC DOORS
6. COORDINATE LOCKING OF EXISTING OVERHEAD DOORS WITH OWNER & TENANT
7. PROVIDE LOCK BY ROLLING COUNTER DOOR MANF

HARDWARE SCHEDULE:

* PROVIDE SOLID WOOD BLOCKING AT ALL WALL STOPS
* ALL HARDWARE TO BE ADA COMPLIANT MORTISE LOCKSETS W/ ARCHITECTURAL LEVERS
* ALL HARDWARE TO BE FINISHED BLACK
* PROVIDE MASTER KEY SYSTEM.

HARDWARE SET #1 (OFFICE):
3 - HINGES
1 - OFFICE LOCKSET
1 - WALL STOP
3 - SILENCER

HARDWARE SET # 2 (STORAGE):
3 - HINGES
1 - STOREROOM LOCKSET
1 - WALL STOP
3 - SILENCERS

HARDWARE SET # 3 (RESTROOM):
3 - HINGES
1 - PUSH/ PULL PLATES
1 - WALL STOP
1 - CLOSER
3 - SILENCERS

HARDWARE SET #4 (PASSAGE):
3 - HINGES
1 - PASSAGE LOCKSET
1 - WALL STOP
1 - CLOSER
3 - SILENCERS

HARDWARE SET #5 (RESTROOM - PRIVACY):
3 - HINGES
1 - PRIVACY SET WITH OCCUPANCY INDICATOR
1 - CLOSER
1 - WALL STOP

HARDWARE SET #6: EXTERIOR EXIT DOOR
3 - HINGES
1 - PANIC HARDWARE
1 - KEYED LOCKSET / NO EXTERIOR HARDWARE)
1 - WALL STOP
**ALARM TO SOUND IF DOOR IS OPENED

HARDWARE SET #7 (DOUBLE EXTERIOR DOORS):
2 - CONTINUOUS HINGES
1 - KEYED LOCK OUTSIDE
1 - DUMMY LOCKSET
2 - PANIC HARDWARE/ VERTICAL RODS
2 - CLOSERS
1 - WEATHERSTRIP & DOOR SWEEP
1 - THRESHOLD

HARDWARE SET #8 (KITCHEN SWING DOORS):
2 - DOUBLE-ACTING HINGE SET BY MANUF.
4 - KICK PLATES

HARDWARE SET #9 (DOUBLE PASSAGE):
6 - HINGES
1 - PASSAGE LOCKSET
1 - DUMMY LOCKSET
2 - CLOSER
6 - SILENCERS

HARDWARE SET #10 (PASSAGE W EXIT DEVICE):
3 - HINGES
1 - PASSAGE LOCKSET W/ PANIC HARDWARE
1 - WALL STOP
1 - CLOSER

HARDWARE SET #11 (DOUBLE PASSAGE W EXIT DEVICE):
6 - HINGES
1 - DUMMY LOCKSET
2 - PANIC PASSAGE HARDWARE
2 - CLOSER
6 - SILENCERS

HARDWARE SET #12 (DOUBLE CLOSET):
6 - HINGES
1 - PASSAGE LOCKSET
1 - DUMMY LOCKSET

HARDWARE SET #13 (SINGLE EXTERIOR DOOR):
1 - CONTINUOUS HINGES
1 - KEYED LOCKSET OUTSIDE
1 - PANIC HARDWARE
1 - CLOSERS
1 - WEATHERSTRIP & DOOR SWEEP
1 - THRESHOLD

HARDWARE SET #14 (KITCHEN SWING DOORS):
1 - DOUBLE-ACTING HINGE SET BY MANUF.
2 - KICK PLATES

HARDWARE SET #15 (PASSAGE 2):
3 - HINGES
1 - PASSAGE LOCKSET W/ PANIC HARDWARE
1 - CLOSER
3 - SILENCERS

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Buffalo Puttz
201 Ganson Street,
Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

NOT FOR CONSTRUCTION

SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
DOOR & HARDWARE SCHEDULE, DOOR TYPES & DETAILS

SILVESTRI
ARCHITECTS • PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-601

GENERAL NOTES:

1. STOREFRONT BASIS OF DESIGN:
KAWNEER, TRIFAB 451T, COLOR BLACK
2. ALL GLAZING TO BE 1" CLEAR INSULATED, UNLESS OTHERWISE NOTED.
CONTRACTOR TO SUBMIT GLASS SAMPLES TO ARCHITECT. GLAZING TO MATCH EXISTING
3. COORDINATE WITH FINISH PLANS & SCHEDULE FOR WINDOW ROLLER SHADES

MINIMUM U-FACTORS:
WINDOWS: 0.330
DOORS: 0.570

MATERIAL LEGEND:

AL = ALUMINUM
HM = HOLLOW METAL
SCWD = SOLID CORE WOOD
WD = WOOD
IM = INSULATED METAL

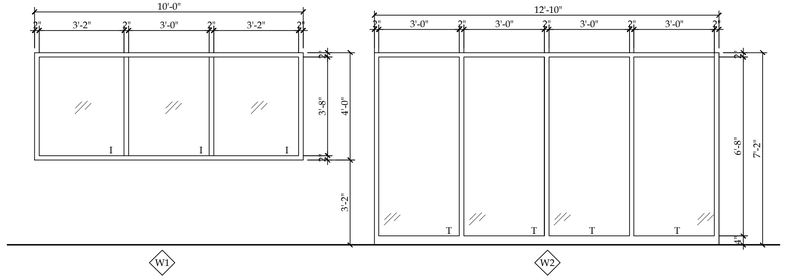
DOOR AND FRAME FINISHES:

HM = PAINT

GLAZING KEY
F = 1/4" FLOAT
T = 1/4" TEMPERED
IF = 1" INSULATED FLOAT
IT = 1" INSULATED TEMPERED
IS = 1" INSULATED SPANDREL

*OTHER DESIGNATIONS INDICATE FIRE RATED GLAZING

GLASS SAFETY MARKINGS, 4" DIA MIN AT 30-36" AFF AND 60-66" AFF.
DESIGN TO BE COORDINATE WITH OWNER.



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Buffalo, NY 14202

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SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____
DRAFTER _____
JOB CAPT. W. Manhardt
INTERIORS S. Shank

SEAL:

TITLE:
WINDOW SCHEDULE, TYPE AND DETAILS

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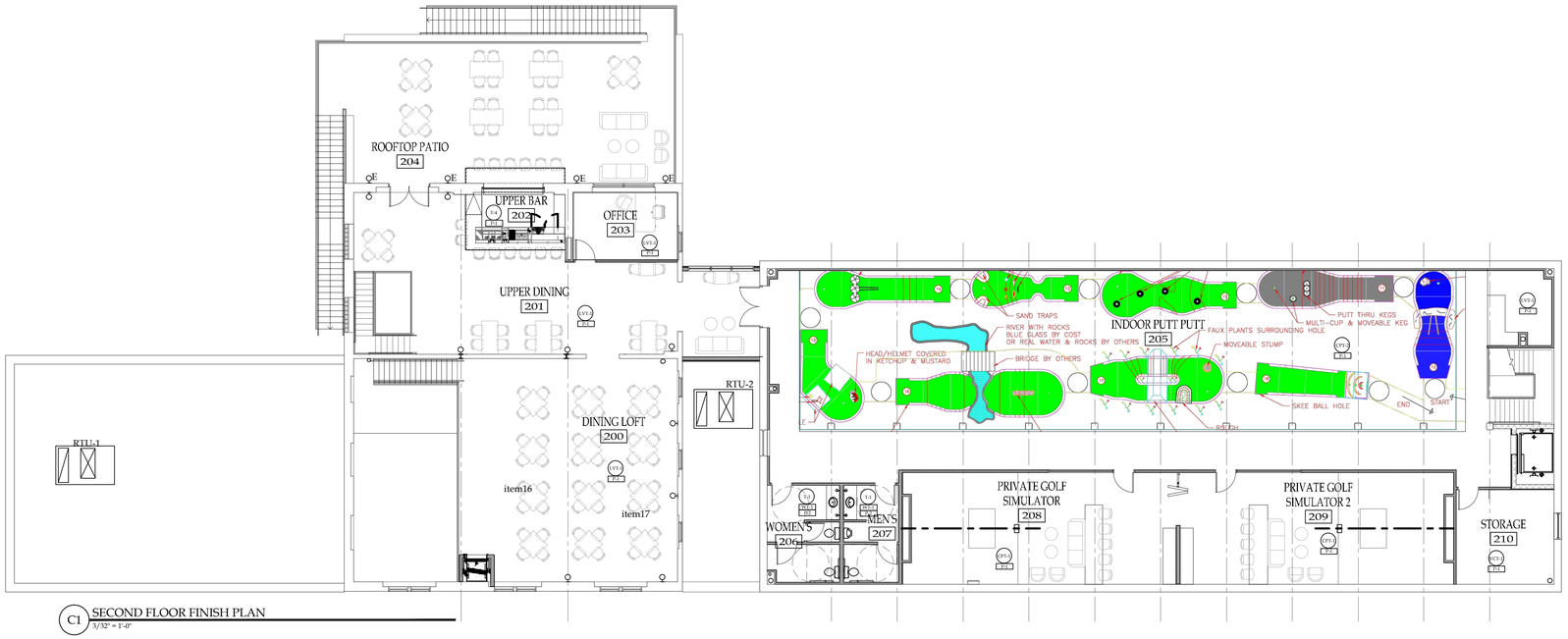
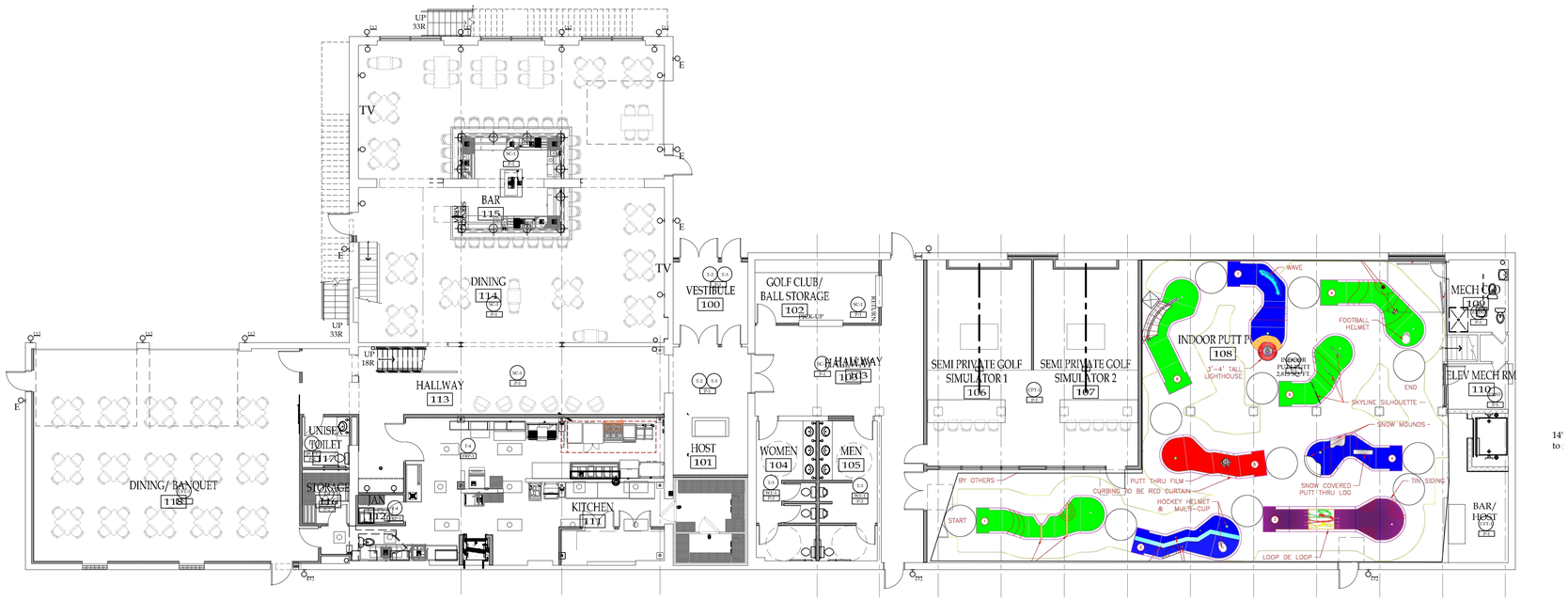
SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-602



C1 SECOND FLOOR FINISH PLAN
3/32" = 1'-0"



A1 FIRST FLOOR FINISH PLAN
3/32" = 1'-0"

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PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:

FINISH FLOOR PLAN

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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: A-603

FINISH SELECTIONS

TILE (T-X):
(T-1) (RESTROOMS)
MANUFACTURER: CAESAR CERAMICS
DISTRIBUTOR: BEST TILE
STYLE: TBD
COLOR: TBD
INSTALLATION: ⅓ BRICK LAY

(T-2) (ENTRY & HOST)
MANUFACTURER: DOBKIN TILE
STYLE: TBD
INSTALLATION: DIAMOND
GROUT: LATICRETE
GROUT COLOR: TBD
NOTE: USE TILE FOR BASE IN ENTRY

(T-3) (ENTRY & HOST)
MANUFACTURER: DOBKIN TILE
STYLE: TBD
INSTALLATION: DIAMOND
GROUT: LATICRETE
GROUT COLOR: TBD
NOTE: USE TILE FOR BASE IN ENTRY

(T-4) (KITCHEN)
MANUFACTURER: DALTILE
STYLE: QUARRY TILE
COLOR: ARID GRAY
INSTALLATION: STACKED
GROUT: LATICRETE
GROUT COLOR: TBD

STAINED CONCRETE (SC-X):
(SC-1)
MANUFACTURER: DIRECT COLORS
PRODUCT: EVER STAIN - ACID STAIN
COLOR(S): COFFEE BROWN 65% & BLACK 35% MIX
NOTE(S): USE WITH PRO CLEAN NEUTRALIZER, EASY SEAL SATIN ACRYLIC SEALER & OXY GRIP SEALER ADDITIVE. FOLLOW MANUFACTURER'S "HOW TO GUIDE".

WOOD BASE (WB-X):
(WB-1)
MANUFACTURER: ORNAMENTAL MOULDINGS
SIZE: 9/16-IN X 5-1/2-IN X 7-2/3-FT
NOTE: UNFINISHED POPLAR 1288 BASEBOARD MOULDING

PAINT (P-X):
(P-1) TYPICAL
MANUFACTURER: SHERWIN WILLIAMS
HEIGHT: TBD
FINISH: EGGSHELL

(P-2) RESTROOMS
MANUFACTURER: SHERWIN WILLIAMS
COLOR: DRIFT OF MIST SW9166
FINISH: EGGSHELL

(P-3) RESTROOMS
MANUFACTURER: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

(P-4) TRIM
MANUFACTURER: SHERWIN WILLIAMS
COLOR: TBD
FINISH: SEMI GLOSS
NOTE: PAINT TO MATCH SURROUNDING WALL COLOR

(P-5) CEILING
MANUFACTURER: SHERWIN WILLIAMS
COLOR: IRON ORE SW7069
FINISH: FLAT AT CEILING

WALL TILE (WT-X):
(WT-1) BATHROOM
MANUFACTURER: BEST TILE
STYLE: TBD
COLOR: TBD
NOTE: 3"X6"
FINISH: GLOSSY
INSTALLATION: BRICK LAY 1/2 OFFSET
GROUT: LATICRETE

(WT-2)
MANUFACTURER: BEST TILE
STYLE: TBD
COLOR: TBD
SIZE:
INSTALLATION: SEE A-400s
GROUT: LATICRETE
GROUT COLOR:

(WT-3)
MANUFACTURER: BEST TILE
STYLE: TBD
COLOR: TBD
SIZE: TBD
GROUT: LATICRETE
GROUT COLOR: TBD

WOOD ACCENT WALL (WDW-X):
(WDW-1): SAMPLE PROVIDED BY CONTRACTOR. TO BE TO BE APPROVED TO OWNER & ARCHITECT.

FINISH SELECTIONS, CON'T.

FIBER REINFORCED PLASTIC (FRP-X):
(FRP-1)
MANUFACTURER: CRANE COMPOSITES
STYLE: GLASBORD WITH SURFASEAL FINISH
TEXTURE: PEBBLED EMBOSSED
COLOR: PEARL GRAY 48
NOTE: CLASS A FIRE RATED

ACOUSTICAL CEILING TILE (ACT-X):
(ACT-1)
MANUFACTURER: USG
NOTE: MARS HEALTHCARE PANEL 86256
SUSPENSION SYS.: USG DX
SIZE: 2'X2'
COLOR: WHITE

CEILING PANELS (CC-X):
(CC-1)
MANUFACTURER: CSI CREATIVE
STYLE: TBD
COLOR: BLACK

PLASTIC LAMINATE (PL-X):
(PL-1)
MANUFACTURER: NEVAMAR
COLOR: TBD

(PL-2)
MANUFACTURER: NEVAMAR
COLOR: TBD

(PL-3)
MANUFACTURER: NEVAMAR
COLOR: TBD

SOLID SURFACE (SS-X):
(SS-1)
MANUFACTURER: MSI NATURAL QUARTZ
COLOR: TBD

SOLID SURFACE (SS-X):
(SS-2) BAR
MANUFACTURER: WILSONART
NOTE: NOVA SERRANA

SOLID SURFACE (SS-X):
(SS-3) RESTROOMS
MANUFACTURER: MSI NATURAL QUARTZ
COLOR: TBD

TRANSITION STRIP (TS-X):
(TS-1) GENERAL FLOORING TRANSITIONS
MANUFACTURER: SCHLUTER SYSTEMS
STYLE & SIZE: SCHIENE- SIZE TO BE V.I.F. IN ACCORDANCE WITH MATERIAL(S) THICKNESS
COLOR: BRUSHED ANTIQUE BRONZE
LOCATION(S): ALL FLOORING MATERIAL CHANGES AS NECESSARY
NOTE(S): SEE GENERAL NOTES

WINDOW TREATMENT (RS-X):
(RS-1)
MANUFACTURER: SONIC BLINDS
STYLE: SOLAR SHADE
OPENNESS: 5%
COLOR: BLACK
LOCATION: ALL EXTERIOR WINDOWS

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEILING MATERIAL	MILLWORK/ SHROUD	COUNTER TOP/ SHELVES	REMARKS
FIRST FLOOR								
100	VESTIBULE	T-1/T-2	TB	P-1	GYP			1
101	HOST	T-1/T-2	TB	P-1	GYP			1
102	GOLF CLUB/BALL STOARGE	SC-1	WB-1	P-1	ACT-1		PL-3	1
103	HALLWAY	SC-1	WB-1	P-1	ACT-1			1
104	WOMENS'	T-3	TB	WT-1/P-2	GYP./P-2	PL-3	SS-3	1, 2
105	MEN'S	T-3	TB	WT-1/P-2	GYP./P-2	PL-3	SS-3	1, 2
106	SEMI PRIVATE GOLF SIMULATOR	CPT-1	WB-1	P-1	EXP./GYP.	PL-2	SS-1	1
107	SEMI PRIVATE GOLF SIMULATOR	CPT-1	WB-1	P-1	EXP./GYP.	PL-2	SS-1	1
108	INDOOR PUTT PUTT	CPT-2	WB-1	P-3	EXP/P-4/CC-1			1
109	MECH. CLOSET	EXIST	RB-1	P-1	GYP			1
110	STORAGE	EXIST	RB-1	P-1	GYP			1
111	KITCHEN	T-4	TB	FRP-1	ACT-1			1
112	JAN. CLOSET	T-4	TB	FRP-1/P-1	ACT-1			1,3
113	HALLWAY	SC-1	WB-1	P-1	EXP/P-4			1
114	BAR DINING	SC-1	WB-1	EXIST	EXP/P-4/CC-1			1
115	BAR	SC-1	--	P-1	EXP/P-4/CC-1		SS-2	1
116	STORAGE	T-4	TB	FRP-1/P-1	ACT-1			1
117	UNISEX TOILET	T-3	TB	WT-1/P-2	GYP/P-2			1
118	DINING/BANQUET	SC-1	WB-1	P-1	EXP/P-4/CC-1			1
SECOND FLOOR								
200	LOFT DINING	LVT-1	WB-1	P-1	EXP/P-4			1
201	UPPER DINNG	LVT-1	WB-1	P-1	EXP/P-4			1
202	UPPER BAR	SC-1	WB-1	P-1	EXP/P-4/CC-1			1
203	OFFICE	LVT-1	WB-1	P-1	ACT-1			1
204	ROOF TOP PATIO	--	--	--	--		SS-1	1
205	WOMENS'	T-3	TB	WT-1/P-2	GYP./P-2	PL-3	SS-3	1, 2
206	MEN'S	T-3	TB	WT-1/P-2	GYP./P-2	PL-3	SS-3	1, 2
207	INDOOR PUTT PUTT	CPT-2	WB-1	P-3	EXP/P-4/CC-1	PL-2	SS-2	1
208	SEMI PRIVATE GOLF SIMULATOR	CPT-1	WB-1	P-2	EXP/GYP/P-2	PL-2	SS-2	1
209	SEMI PRIVATE GOLF SIMULATOR	CPT-1	WB-1	P-2	EXP/GYP/P-2	PL-2	SS-2	1
210	STORAGE	VCT-1	RB-1	P-1	EXP/P-1			1

DRYWALL FINISH LEVELS

LEVEL 0: NO TAPING, FINISHING, OR ACCESSORIES REQUIRED

LEVEL 1: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE SET IN JOINT COMPOUND. SURFACE SHALL BE FREE OF EXCESS JOINT COMPOUND. TOOL MARKS AND RIDGES ARE ACCEPTABLE.

LEVEL 2: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH A COAT OF JOINT COMPOUND. SURFACE SHALL BE FREE OF EXCESS JOINT COMPOUND. TOOL MARKS AND RIDGES ARE ACCEPTABLE. JOINT COMPOUND APPLIED OVER THE BODY OF THE TAPE AT THE TIME OF TAPE EMBEDMENT SHALL BE CONSIDERED A SEPARATE COAT OF JOINT COMPOUND AND SHALL SATISFY THE CONDITION OF THIS LEVEL.

LEVEL 3: ALL JOINTS AND INFERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. ONE ADDITIONAL COAT OF JOINT COMPOUND SHALL BE APPLIED OVER ALL JOINTS AND INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH TWO SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUND SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. SEE PAINTING/WALLCOVERING SPECIFICATION IN THIS REGARD.

LEVEL 4: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. TWO SEPARATE COATS OF JOINT COMPOUND SHALL BE APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND SHALL BE APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUND SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. SEE PAINTING/WALLCOVERING SPECIFICATION IN THIS REGARD.

LEVEL 5: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. TWO SEPARATE COATS OF JOINT COMPOUND SHALL BE APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND SHALL BE APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. A THIN SKIM COAT OF JOINT COMPOUND TROWEL APPLIED, OR A MATERIAL MANUFACTURED ESPECIALLY FOR THIS PURPOSE AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, APPLIED TO THE ENTIRE SURFACE. THE SURFACE SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINISH PAINT. SEE PAINTING SPECIFICATION IN THIS REGARD.

LEGEND

FLOORS
- CPT = CARPET
- T = TILE
- WD = WOOD FLOOR
- SC = SEALED CONCRETE
- EP = EPOXY FLOOR

BASE
- RB = RUBBER BASE
- TB = TILE BASE

WALLS
- FRP = FIBERGLASS REINFORCED PLASTIC
- P = PAINT
- WT = WALL TILE
- WC = WALLCOVERING
- WDW = WOOD WALL
- SPS = STAINLESS STEEL PANELS
- BR = BRICK

CEILING
- ACT = ACOUSTIC CEILING TILE
- GYP = GYPSUM BOARD
- WDC = WOOD CEILING

MISCELLANEOUS
- PL = PLASTIC LAMINATE
- RS = ROLLER SHADE
- SS = SOLID SURFACE
- TS = TRANSITION STRIP
- ST = WOOD STAIN

GENERAL NOTES

G1. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE FOLLOWING FINISHES UNLESS DIRECTED BY THE OWNER OR THE ARCHITECT.

G2. MANY FINISH MATERIALS REQUIRE A SUBSTANTIAL LEAD TIME. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER ALL MATERIALS AT THE APPROPRIATE TIME. ANY FEES INCURRED AS A RESULT OF FINISHES NOT BEING ORDERED ON TIME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

G3. ANY AND ALL FINISH SELECTIONS/COLORS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL ACCOUNTING FOR PROPER LEAD TIME. ANY FINISH THAT IS INSTALLED WITHOUT ARCHITECTS APPROVAL MAY BE REQUIRED TO BE REMOVED AND REPLACED BY THE GENERAL CONTRACTOR.

G4. ANY DISCREPANCIES BETWEEN ARCHITECTURAL ELEVATION(S), PLAN(S), SCHEDULE(S) AND NOTES MUST BE BROUGHT TO ARCHITECTS ATTENTION. ARCHITECTS MUST BE CONTACTED AND GIVE APPROVAL TO MOVE FORWARD WITH SPECIFIC DIRECTION PRIOR TO ANTICIPATED ACTION.

G5. IF COLOR OR FINISH IS NOT SPECIFIED CONTACT THE ARCHITECT FOR CLARIFICATION.

G6. ALL PAINTING, INCLUDING MEP ITEMS THAT REQUIRE PAINTING, IS UNDER THE PAINTER'S SCOPE OF WORK.

G7. ALL INTERIOR PRODUCTS TO MEET/EXCEED FLAME SPREAD RATING PER CODE.

G8. ALL BRACKETS SUPPORTING SHELVING/ADJUSTABLE SHELVING & COUNTERTOPS TO BE EXTRA HEAVY DUTY. SEE DRAWINGS FOR DETAILS.

WINDOWS:

G1. WINDOW SILLS TO BE STAINED WOOD, STAINED ST-1.

G2. ALL GLAZING FACING EXTERIOR TO RECEIVE ROLLER SHADES. COLOR TO BE SELECTED BY ARCHITECT UNLESS OTHERWISE SPECIFIED. ROLLER SHADES INSTALLED ON GARAGE DOORS TO BE MOTORIZED.

CEILINGS:

G1. ALL GYPSUM BOARD CEILINGS AND GYPSUM BOARD SOFFITS SHALL BE FINISHED TO LEVEL 4 DRYWALL FINISH AND ARE TO BE PAINTED IN A FLAT FINISH. COLOR TO BE SHERWIN WILLIAMS - CEILING BRIGHT WHITE, UNLESS OTHERWISE NOTED.

G2. ALL EXPOSED MECHANICAL DUCT COVERS SHALL BE PAINTED TO MATCH THE SURROUNDING WALL/CEILING COLOR. PRIME AS NECESSARY.

G3. ALL EXPOSED PLUMBING FIXTURES/ MECHANICAL DUCT/SUPPLY/RETURN SYSTEMS TO BE PAINTED AND/OR PURCHASED IN A COLOR TO MATCH THE SURROUNDING WALL/CEILING COLOR.

G4. ANY CEILING HVAC SUPPLY/DIFFUSERS TO BE PAINTED TO MATCH SURROUNDING CEILING FINISH. ANY QUESTION OR CONCERN TO BE BROUGHT TO ARCHITECTS ATTENTION FOR FINAL DECISION PRIOR TO ORDER/INSTALL BY CONTRACTOR OR OTHER.

WALLS:

G1. ALL GWB WALLS SHALL BE FINISHED TO LEVEL 4 DRYWALL FINISH AND INCLUDE (1) COAT WALL PRIMER FOLLOWED BY (2) COATS WALL PAINT ON ALL INTERIOR WALL SURFACE UNLESS OTHERWISE NOTED IN SPECIFICATIONS. SEE SPEC FOR DETAILS.

G2. FRP-1 TO BE INSTALLED UP TO 48" A.F.F. IN JANITORS CLOSET(S) WITH SPECIFIED PAINT ABOVE. FRP-1 TO BE INSTALLED FULL HEIGHT IN KITCHEN EXCEPT AT FOOD STORAGE AREA OUTSIDE OFFICE #115. FRP-1 TO BE INSTALLED 48" A.F.F. IN THAT STORAGE SPACE.

G3. REFERENCE FINISH FLOOR PLAN FOR ACCENT COLOR LOCATIONS.

G4. PROVIDE SCHLUTER AS SCHEDULED AT EXPOSED UNFINISHED TILE EDGES. NECESSARY SIZES TO BE DETERMINED BY CONTRACTOR AND V.I.F. BASED ON MATERIAL THICKNESS.

G5. WHERE DARK PAINT COLORS ARE APPLIED, USE DEEP GRAY BASE PRIMER TO PREVENT BURNISHING.

G6. PROVIDE SPACERS AS NEEDED BEHIND MIRRORS IN RESTROOM TO ACCOUNT FOR TILE THICKNESS.

G7. ALL ELECTRICAL PANEL COVERS AND/OR MECHANICAL EQUIPMENT AND/OR DUCTING TO BE PAINTED TO MATCH ADJOINING WALL.

FLOORS:

G1. CONTRACTOR TO PROVIDE TRANSITION STRIP AS SCHEDULED AT ALL FLOORING MATERIAL CHANGES NEEDING THRESHOLDS. NECESSARY SIZES TO BE DETERMINED BY CONTRACTOR AND V.I.F. BASED ON MATERIAL THICKNESS.

G2. PROVIDE CORIAN OR EQUAL SOLID SURFACE THRESHOLD AT ALL TOILET ROOM TRANSITIONS UNLESS OTHERWISE SPECIFIED. ARCHITECT TO CHOOSE FROM MANUFACTURER FULL RANGE OF COLORS.

G3. ALL FLOOR FINISHES TO EXTEND BELOW ALL MILLWORK.

MILLWORK:

G1. PROVIDE CLEAR BEAD OF SILICONE OR CLEAR CAULK TO SEAL BETWEEN MILLWORK PIECES (IE:COUNTERTOP AND BACKSPLASH) AND MILLWORK AND WALL (TYPICAL.).

G2. MILLWORK FINISHES ON SHOP DRAWINGS MUST BE APPROVED BY ARCHITECT PRIOR TO PRODUCTION.

BASE:

G1. WHERE 4" TILE BASE IS LOCATED, USE L-CHANNEL CAP TO FINISH THE TOP OF TILE.

OUTLETS:

G1. ALL PLATE COLORS AND RECEPTACLES TO BE WHITE.

SIGNAGE:

G1. SIGNAGE TO BE INSTALLED BY CONTRACTOR.

REMARKS

1. REFER TO REFLECTED CEILING PLAN FOR EXACT DETAILS (MATERIALS, HEIGHTS, SIZES, ETC.) AND CEILING LAYOUT.
2. WALL TILE IN RESTROOMS WILL ACT AS WALL BASE. ON WALLS IN RESTROOMS
3. FRP-1 TO BE INSTALLED 48" A.F.F. ON ALL WALLS IN JAN. FRP-1 TO BE INSTALLED 6' A.F.F. IN KITCHEN STORAGE AREA W/PAINT ABOVE. FRP-1 TO BE INSTALLED FULL HEIGHT IN KITCHEN.

NOTICE
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ISSUE:
1/12/26 75% BID SET

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
FINISH SCHEDULE & NOTES

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SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: A-604

ROOFTOP AIR CONDITIONING UNIT SCHEDULE - DX

UNIT NO.	LOCATION	CFM STD AIR	MIN OA CFM	TONS	SP (IN WG) EXT	FILTER	NG HEATING INPUT MBH	NG HEATING OUTPUT MBH	INDOOR MOTOR RPM	INDOOR MOTOR HP	INDOOR MOTOR STARTER	EFFICIENCY EER/SEER	COOLING COIL EAT DB F	COOLING COIL EAT WB F	COOLING COIL CAP (MBH) TOTAL	COOLING COIL CAP (MBH) SENS	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOP	DESIGN EQUIPMENT TRANE	WEIGHT	ACCESSORIES
RTU-1	ROOF	2400	600	6.0	0.75	(4) 2"THROWAWAY	120	97	973	1.0	YES	11.0/-	80	67	82.8	62.1	460	3	20	25	YSK072A4	1200 LBS	1,2,3,4,5,6,7,8,9
RTU-2	ROOF	5000	1000	12.5	0.75	(4) 2"THROWAWAY	250	203	**973**	**5.0**	YES	11.0/-	80	67	149.9	114.1	460	3	33	45	YSK150A4	**1200 LBS**	1,2,3,4,5,6,7,8,9
RTU-3	ROOF	3000	600	7.5	0.75	(4) 2"THROWAWAY	150	122	802	3.0	YES	11.0/-	80	67	90.8	65.8	208	**3**	**43**	**50**	**YSK090A3**	1250 LBS	1,2,3,4,5,6,7,8,9
RTU-4	ROOF	4000	800	10.0	0.75	(4) 2"THROWAWAY	240	194	1486	3.0	YES	11.3/-	80	67	119.0	92.8	460	3	30	40	YSK120A4	1200 LBS	1,2,3,4,5,6,7,8,9,10
RTU-5	ROOF	4000	800	10.0	0.75	(4) 2"THROWAWAY	240	194	1486	3.0	YES	11.3/-	80	67	119.0	92.8	460	3	30	40	YSK120A4	1200 LBS	1,2,3,4,5,6,7,8,9,10
RTU-6	ROOF	2000	500	5.0	0.75	(4) 2"THROWAWAY	100	81	1079	3.0	YES	13.0/17.1	80	67	61.8	43.3	460	3	14	20	YSK060A4	1100 LBS	1,2,3,4,5,6,7,8,9
RTU-7	ROOF	2400	600	6.0	0.75	(4) 2"THROWAWAY	120	97	973	1.0	YES	11.0/-	80	67	82.8	62.1	460	3	20	25	YSK072A4	1200 LBS	1,2,3,4,5,6,7,8,9
RTU-8	ROOF	5000	1000	12.5	0.75	(4) 2"THROWAWAY	250	203	**973**	**5.0**	YES	11.0/-	80	67	149.9	114.1	460	3	33	45	YSK150A4	**1200 LBS**	1,2,3,4,5,6,7,8,9
RTU-9	ROOF	2400	600	6.0	0.75	(4) 2"THROWAWAY	120	97	973	1.0	YES	11.0/-	80	67	82.8	62.1	460	3	20	25	YSK072A4	1200 LBS	1,2,3,4,5,6,7,8,9

ACCESSORIES
1. 14" ROOF CURB
2. PROVIDE DISCONNECT SWITCH AND CONVENIENCE OUTLET
3. BELT DRIVEN EVAP MOTOR
4. LOW LEAK-DRY BULB CONTROLLED ECONOMIZER
5. BAROMETRIC RELIEF
6. HINGED ACCESS PANELS
7. 7-DAY PROGRAMMABLE THERMOSTAT
8. 5 YEAR COMPRESSOR WARRANTY
9. RETURN AIR SMOKE DETECTOR
10. DEMAND CONTROL VENTILATION MONITOR WITH CO2 DETECTORS

NOTES
1. COORDINATE EXACT LOCATION IN FIELD

EXHAUST FAN SCHEDULE

UNIT NO.	AREA SERVED	GREENHECK MODEL NO.	TYPE	CFM	S.P. (IN WC.)	FAN RPM	LIGHT	OPERATING POWER	MOTOR INFORMATION VOLTAGE	MOTOR INFORMATION ENCL.	MOTOR INFORMATION RPM	SONES	NOTES
EF-1	UNISEX TOILET	SP-B90	CEILING	80	0.125	700	NO	20 W	115/60/1ø	ODP	700	1.0	1,2,3,4
EF-2	WOMENS ROOM	SP-B90	CEILING	225	0.125	900	NO	54 W	115/60/1ø	ODP	900	1.5	1,2,3,4
EF-3	MENS ROOM	SP-B90	CEILING	225	0.125	900	NO	54 W	115/60/1ø	ODP	900	1.5	1,2,3,4
EF-4	WOMENS ROOM	SP-B90	CEILING	80	0.125	700	NO	20 W	115/60/1ø	ODP	700	1.0	1,3,4,5
EF-5	MENS ROOM	SP-B90	CEILING	80	0.125	700	NO	20 W	115/60/1ø	ODP	700	1.0	1,3,4,5

NOTES:
1. CONTROLLED BY SWITCH, WIRING BY ELECTRICAL CONTRACTOR.
2. PROVIDE MANUFACTURER'S WALL CAP.
3. BACKDRAFT DAMPER
4. HANGING KIT WITH VIBRATION ISOLATORS.
5. PROVIDE MANUFACTURER'S ROOF CURB AND CAP.

AIR DEVICE SCHEDULE

MARK	TYPE	STYLE	FACE	BASIS OF DESIGN
A	SUPPLY	LAY-IN	24"x24"	TITUS TMS
A1	SUPPLY	LAY-IN	12"x12"	TITUS TMS
B	RETURN	LOUVERED, LAY-IN	24"x24"	TITUS 350RL
C	RETURN	LOUVERED, LAY-IN	24"x12"	TITUS 350RL
D	SUPPLY	DUCT MOUNTED	10"x6"	TITUS S300

MARK — (A) 8"ø — NECK / 150 — CFM

NOTES:
1. FINISH TO MATCH ARCHITECTURAL.
2. OPTIONAL VOLUME DAMPER ON ALL DIFFUSERS MOUNTED IN GYPSUM CEILINGS OR SOFFITS.
3. PROVIDE ALL REQUIRED MOUNTING FRAMES AND HARDWARE.

MECHANICAL LEGEND

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN
- UD — UNDERCUT DOOR (3/4")
- EXHAUST AIR DUCTWORK
- RETURN AIR DUCTWORK
- SUPPLY AIR DUCTWORK
- BALANCE/VOLUME DAMPER
- T — PROGRAMMABLE THERMOSTAT (+48"AFF)
- 1 / M-1 — DETAIL NUMBER / DRAWING SHEET NUMBER

AFF	ABOVE FINISHED FLOOR
RTU	ROOF TOP UNIT
VD	VOLUME DAMPER
CFM	CUBIC FEET PER MINUTE
FD	FIRE DAMPER
O.A.	OUTSIDE AIR
EAG	EXHAUST AIR GRILLE
SAR	SUPPLY AIR REGISTER
RAG	RETURN AIR GRILLE
NK	NECK
UD	UNDERCUT DOOR (BY ARCHITECT)
GC	GENERAL CONTRACTOR
OBVD	OPPOSED BLADE VOLUME DAMPER
OED	OPEN END DUCT
HVAC	HEATING VENTILATING AND AIR CONDITIONING
MC	MECHANICAL CONTRACTOR

KITCHEN MAKE-UP AIR UNIT SCHEDULE (EQUIPMENT BY OTHERS)

UNIT NO.	LOCATION	SERVICE	CFM STD AIR	EXT SP (IN WG)	MOTOR RPM	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	HEATING SECTION TEMP RISE °F	HEATING SECTION INPUT MBH	HEATING SECTION OUTPUT MBH	WEIGHT LBS	DESIGN EQUIPMENT CAPTIVE AIRE	ACCESSORIES
HMAU-1	ROOF	KITCHEN	2678	0.5	1142	1	208	3	4.8	15	68	207	191	663	AD-D.500-20D	1,2,3,4,5,6,7,8

ACCESSORIES
1. DOWN DISCHAGE
2. INLET PRESSURE GAUGE
3. MANIFORLD PRESSURE GAUGE
4. BUTTERFLY MOD VALVE OPTION
5. GAS STRAINER
6. MOTORIZED BACKDRAFT DAMPER
7. EXTERIOR GAS CONNECTION
8. 20" INSULATED ROOF CURB

KITCHEN EXHAUST FAN SCHEDULE (EQUIPMENT BY OTHERS)

UNIT NO.	AREA SERVED	CAPTIVE AIRE MODEL NO.	TYPE	CFM	S.P. (IN WC.)	AMPS	MOTOR INFORMATION HP	MOTOR INFORMATION VOLTAGE	MOTOR INFORMATION ENCL.	MOTOR INFORMATION RPM	ACC
KEF-1	KITCHEN HOOD	DU180HFA	UPBLAST	3150	1.25	8.5	2	208/3ø/60	ODP	1273	1,2,3,4

ACCESSORIES
1. GREASE BOX
2. FAN BASE CERAMIC SEAL
3. 2 YR PARTS WARRANTY
4. 20" ROOF CURB

GENERAL NOTES:

1. KITCHEN HOOD AND KITCHEN EXHAUST FAN PROVIDED BY KITCHEN CONTRACTOR. MECHANICAL CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK, DAMPERS, SUPPORTS, TRANSITIONS BETWEEN ROOF MOUNTED EQUIPMENT AND HOOD.
2. INSTALLATION SHALL MAINTAIN RECOMMENDED CLEARANCES FOR MAINTENANCE, OPERATION, ETC. ON ALL MECHANICAL EQUIPMENT.
3. CONTRACTOR SHALL COORDINATE ALL HVAC WORK WITH OTHER TRADES, ELECTRICAL, PLUMBING, STRUCTURAL, ETC.
4. ALL WORK SHALL BE IN FULL COMPLIANCE WITH ALL STATE, LOCAL CODES AND REGULATIONS.
5. HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. ALL ELECTRICAL 'FIELD' CONNECTIONS AND RELATED INTERCONNECTIONS BY E.C.
7. INTERCONNECTIONS BETWEEN HOODS AND SWITCHES BY E.C.
8. INSTALLING CONTRACTORS SHALL ASSUME ALL RESPONSIBILITY FOR VERIFICATION OF ANY DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY AND INTEGRATION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES.
10. CONTRACTOR SHALL MAINTAIN A MIN. OF 10 FEET CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUSTS, PLUMBING VENTS, ETC.
11. INSULATED FLEXIBLE SUPPLY AIR DUCT MAY BE USED UP TO 5'-0" FROM SUPPLY DIFFUSERS.
12. COORDINATE EXACT LOCATION OF FURNACES WITH ARCHITECTURAL DRAWINGS.
13. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER.
14. PROVIDE FIRE DAMPERS AS REQUIRED ON DUCTS PENETRATING FIRE RATED WALL RATED 2-HR OR MORE. COORDINATE WITH ARCHITECTURAL DRAWINGS.

KROMAC Design Inc.
MECHANICAL-ELECTRICAL ENGINEERING
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Phone: (716) 803-8787
Email: info@kromacdesign.com Project # 24-11-19

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PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
NOTES AND SCHEDULES

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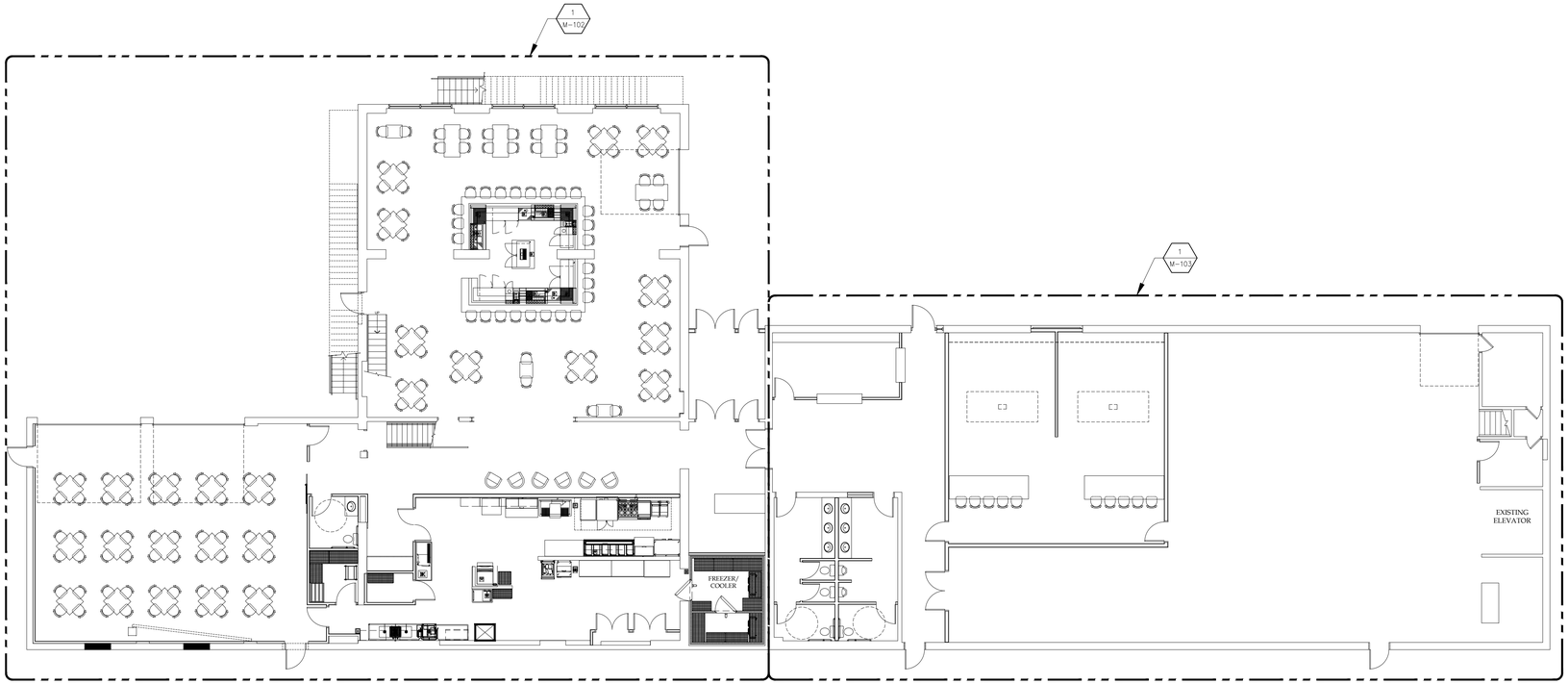
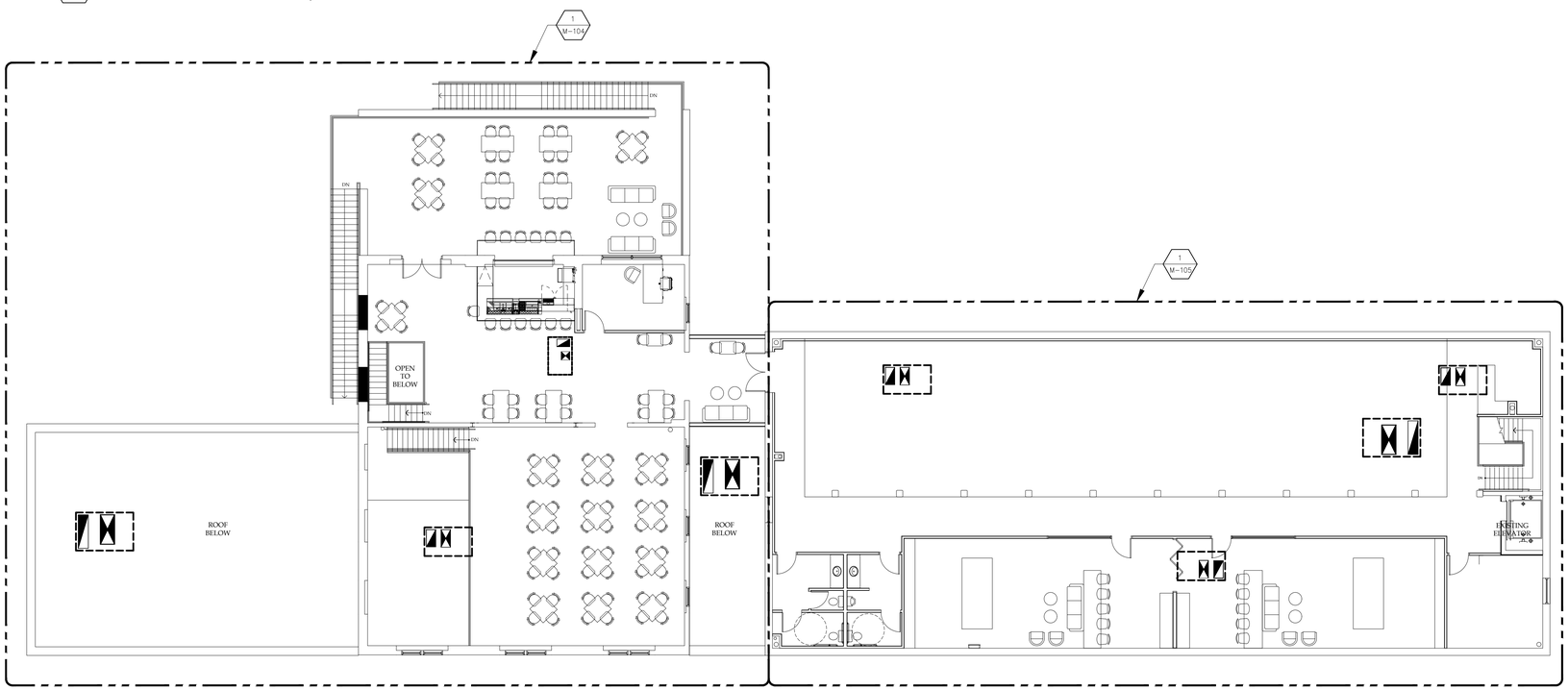
SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: M-100



1 M-101 FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH



2 M-101 SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH

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FULL SCALE PLANS

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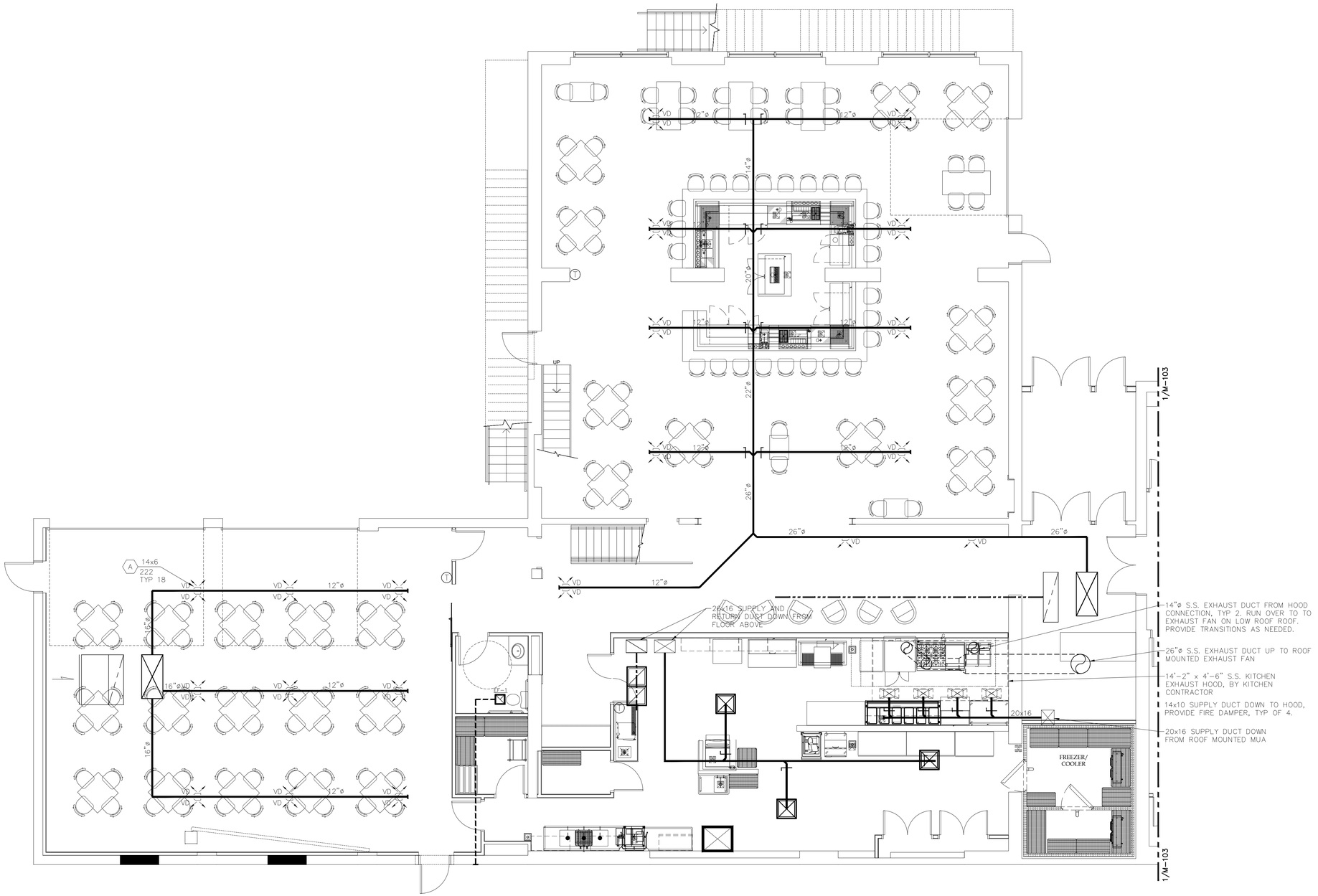

1 M-102 ENLARGED PARTIAL FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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TITLE:

ENLARGED FIRST FLOOR PLAN

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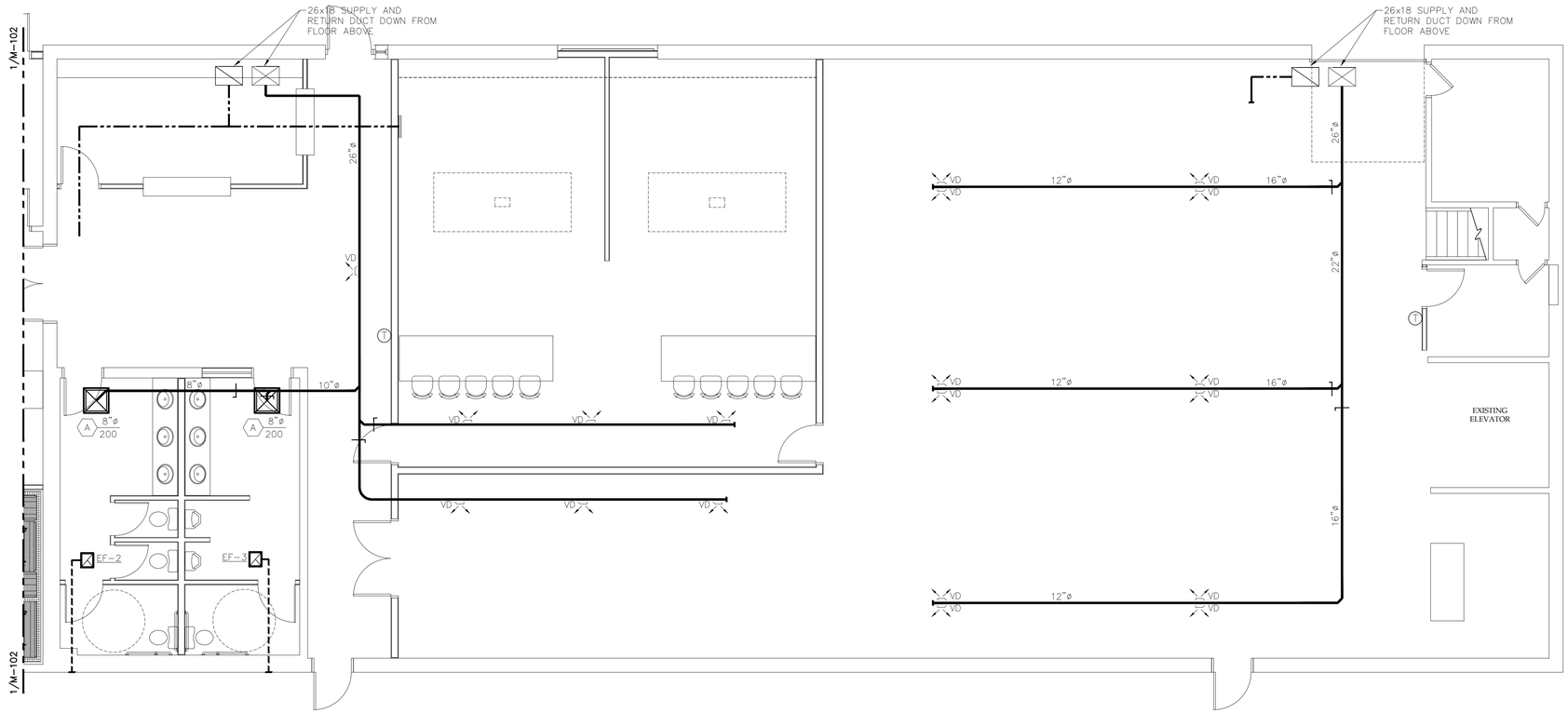
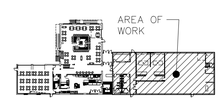


1 M-103 ENLARGED PARTIAL FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN
SCALE: NONE

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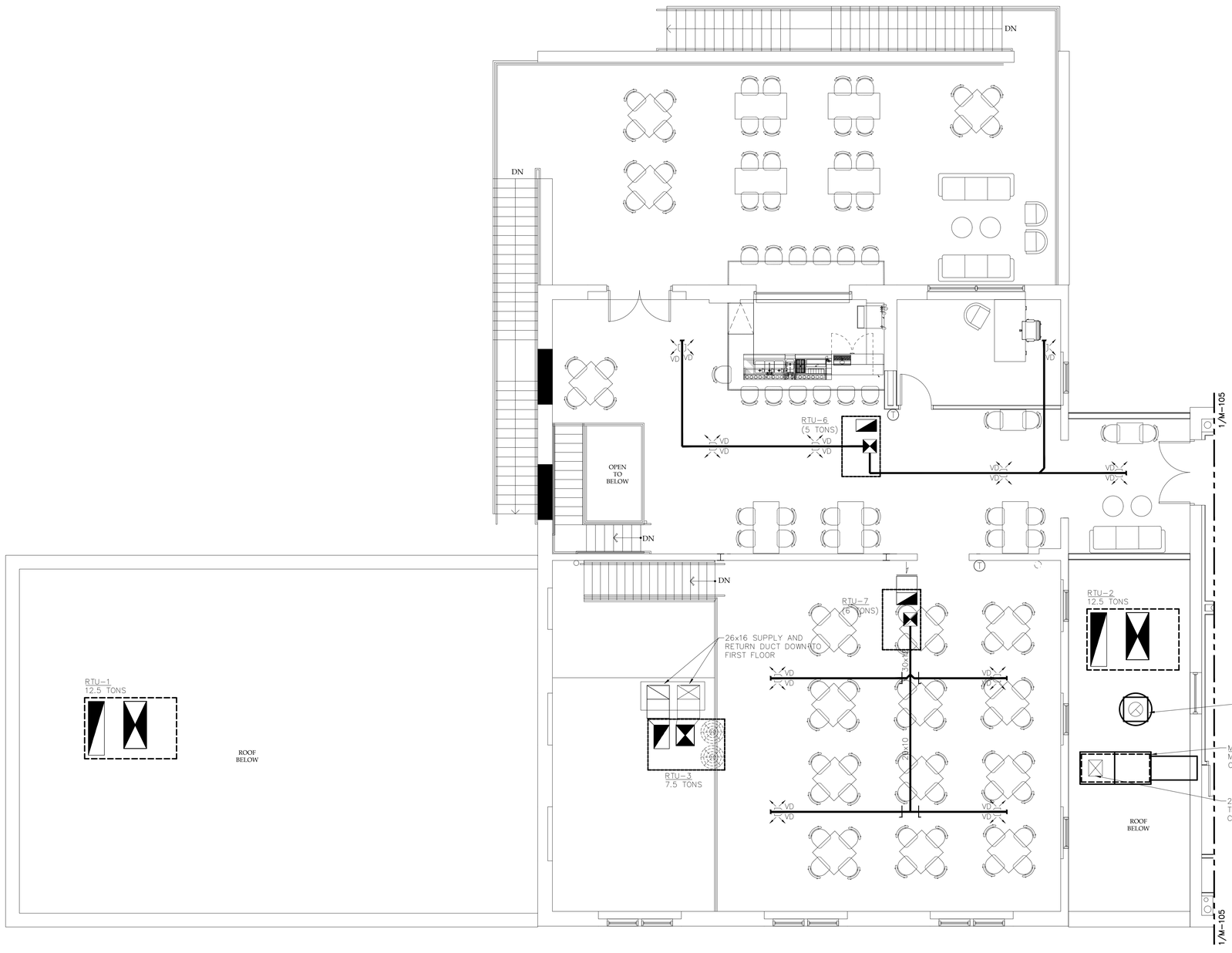
DRAWING #: M-103



1 M-104 ENLARGED PARTIAL SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
ENLARGED SECOND FLOOR PLAN

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DRAWING #: M-104

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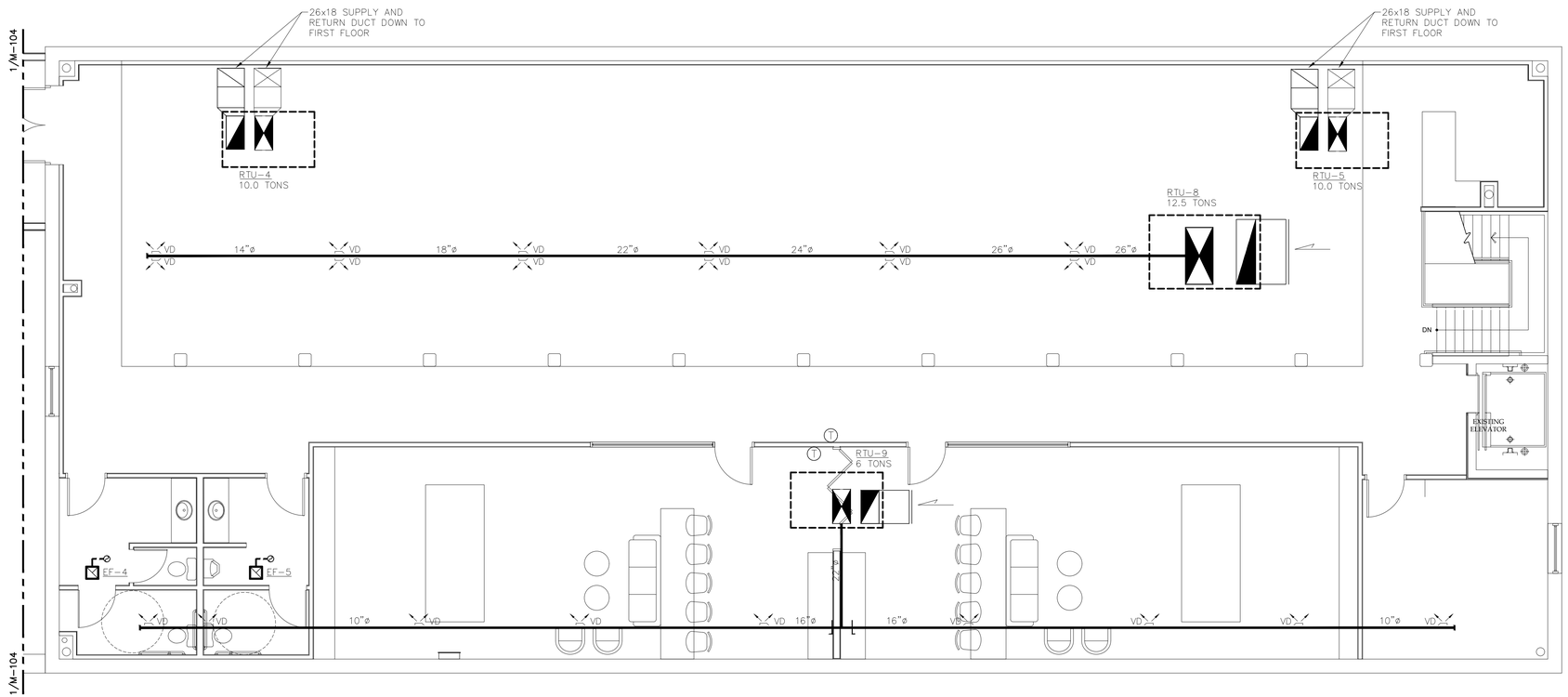

1 ENLARGED PARTIAL SECOND FLOOR PLAN
M-105 SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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SEAL:

TITLE:
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SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: M-105

HVAC SPECIFICATIONS

NOTE: MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED. SUBSTITUTION MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE OWNER'S REPRESENTATIVE. ALL WORK AND PRODUCTS SHALL MEET THE REQUIREMENTS OF GOVERNING CODES.

1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE CODES.
2. SEE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS. ALL CONDITION REQUIREMENTS SHALL APPLY UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE PERFORMED AS INDICATED ON DRAWINGS UNLESS FIELD CONDITIONS REQUIRED MINOR CHANGES BE MADE. MINOR CHANGES SHALL BE MADE WITH NO ADDITIONAL COST.
4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
5. CONTRACTOR SHALL PREPARE AND SUBMIT AS–BUILT DRAWINGS TO THE OWNER AND THE LANDLORD. AS–BUILT DRAWINGS SHALL INDICATE THE ACTUAL MANUFACTURER OF THE EQUIPMENT THAT WAS INSTALLED, THE EXACT LOCATION OF THE EQUIPMENT AND PERTINENT CAPACITIES FOR HEATING, COOLING, ELECTRICAL, ETC.
6. DEFICIENCIES AND NON–CONFORMING ITEMS SHALL BE CORRECTED BY THE CONTRACTOR. FAILURE TO CORRECT SUCH ITEMS SHALL PERMIT THE OWNER TO CORRECT SAME AT A COST TO THE CONTRACTOR
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.
8. THE SCOPE OF WORK OF THIS CONTRACT INCLUDES, BUT SHALL NOT BE LIMITED TO:
   - A. PROVIDE AND INSTALL ALL EQUIPMENT, APPLIANCES, CONTROL DEVICES, ACCESSORIES, MATERIAL AND LABOR.
   - B. PROVIDE AND INSTALL ALL DUCTWORK, INSULATION, AIR DEVICES DUCT ACCESSORIES, MATERIAL AND LABOR
   - C. PROVIDE AND INSTALL ALL PIPING, FITTINGS, VALVES, INSULATION, ACCESSORIES , MATERIAL AND LABOR
   - D. PROVIDE AND INSTALL TOILET EXHAUST SYSTEM INDICATED.
   - E. CLEAN, TEST AND PUT INTO SERVICE ALL SYSTEMS SPECIFIED.
   - F. PROVIDE A BALANCE REPORT PREPARED BY AN INDEPENDENT AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR.
   - G. WARRANTY ALL WORK AND MATERIALS HEREIN SPECIFIED FOR A PERIOD OF NOT LESS THAN ONE YEAR.
9. MATERIALS

9.1. ALL MATERIALS SHALL BE NEW AND OF RECOGNIZED COMMERCIAL QUALITY. USED MATERIALS WILL NOT BE PERMITTED.

9.2. DUCTWORK

SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA – "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE".

DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS–BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLE, VIBRATE OR SAG.

9.3. FLEXIBLE DUCTWORK

FLEXIBLE DUCTS SHALL BE FLAT METAL SPIRAL WITH FLAME RESISTANCE PER NBFU AND NFPA STANDARDS. DUCTS SHALL HAVE INTEGRAL INSULATION 1" THICK, 3/4 LB. DENSITY GLASS FIBER ENCLOSED IN A VINYL VAPOR BARRIER.MINIMUM R VALUE = 5. SECURE INSULATED JACKET TO DUCT TAKEOFFS AND DIFFUSER COLLARS. MAXIMUM LENGTH OF FLEXIBLE DUCT IS 5'–0".

ALL FLEX DUCT SHALL BE FULLY STRETCHED OUT TO REDUCE AIR RESISTANCE.

CONNECTIONS TO FITTINGS OR AIR DEVICES SHALL BE MADE WITH TWO (2) STAINLESS STEEL BANDS. THE INNER LINER SHALL BE CLAMPED TIGHT WITH THE FIRST BAND, THEN THE INSULATION AND VAPOR–PROOF JACKET PULLED TO BE TIGHT AGAINST THE DUCT FITTING OR AIR DEVICE AND SECURED WITH THE SECOND BAND. INSTALLATION SHALL BE AS RECOMMENDED BY THE DUCT MANUFACTURER AND SMACNA

SUPPORT THE FLEXIBLE DUCT WITH ADEQUATE HANGERS TO RELIEVE STRAIN ON ANY FITTING. UNNECESSARY BENDS, SAGS, TWISTS., WILL NOT BE ALLOWED.

9.4. DUCT INSULATION

INSULATION SUPPLY AND RETURN AIR DUCTWORK WITH MINIMUM R=6 FOR NON–CONDITIONED SPACE AND MIN R=12 FOR OUTSIDE DUCTS IN ACCORDANCE WITH THE STATE ENERGY CONSERVATION CODE. PROVIDE VAPOR BARRIER.

LINED DUCT SHALL BE LINED WITH 1" THICK COATED FIBERGLASS BOARD EQUAL TO JOHNS MANVILLE "PERMACOTE" INSULATION. SHALL BE PER SMACNA STANDARDS AND MANUFACTURER'S INSTRUCTIONS. LINED DUCTWORK SHALL BE USED WHERE INDICATED ON DRAWING

ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS.

DUCT INSULATION SHALL BE EQUAL TO PRODUCTS MANUFACTURED BY CERTAINTEED AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

9.5. AIR DEVICES

CEILING DIFFUSERS SHALL HAVE A FRAME STYLE COMPATIBLE WITH THE TYPE OF CEILING USED. THE DIFFUSER FACE SIZE OR FACE PLATE SIZE SHALL BE OF THE SAME NORMAL SIZE AS THE CEILING MODULE. DIFFUSERS SHALL HAVE HIGH ANTI–SMUDGE CHARACTERISTICS. REFER TO AIR DEVICE SCHEDULE.

9.6. PIPING AND FITTINGS

CONDENSATE DRAIN PIPING SHALL BE TYPE L COPPER WITH SOLDERED JOINTS AND WROUGHT COPPER FITTINGS.

10. EQUIPMENT

HVAC EQUIPMENT SHALL BE AS SCHEDULED ON THE DRAWINGS AND/OR SPECIFIED HEREIN. EQUIVALENT EQUIPMENT AND/OR COMPONENTS THEREOF MAY BE SUBSTITUTED FOR SPECIFIED EQUIPMENT ONLY AS APPROVED BY THE OWNER AND/OR THE PROJECT ENGINEER.

11. EXECUTION

11.1. GENERAL

ACCESSIBILITY – ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT ALL COMPONENTS REQUIRING ACCESS ARE LOCATED AND INSTALLED THAT THEY MAY BE SERVICED, RESET, REPLACED, OR RECALIBRATED, ETC., BY SERVICE PEOPLE WITH NORMAL SERVICE TOOLS AND EQUIPMENT.

WORK BY OTHER TRADES – FOR THE WORK REQUIRED BY OTHER TRADES FOR CHANGES MADE BY THIS CONTRACTOR IN TYPE OR SIZE OF EQUIPMENT PURCHASED, ANY CUTTING, PATCHING, FURRING, PAINTING, ELECTRICAL OR PLUMBING WORK SHALL BE DONE BY THE AFFECTED TRADE AT THIS CONTRACTOR'S EXPENSE.

EARLY START–UP – THIS CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT IS CONNECTED WITH ELECTRICAL POWER AS EARLY AS POSSIBLE SO THAT BALANCING AND TESTING CAN BEGIN AT THE EARLIEST DATE AVAILABLE.

CLEANING AND PAINTING – THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL TRASH, CARTONS, ETC., FROM THE WORK AREA. MAKE ANY NECESSARY CORRECTIONS OR REPAIR/ REPLACE ANY DAMAGED MATERIALS OR EQUIPMENT. LEAVE THE ENTIRE SPACE IN A THOROUGHLY CLEAN AND ORDERLY MANNER. ANY FINISHED SURFACES THAT HAVE BEEN SCRATCHED OR DISCOLORED SHALL BE TOUCHED UP OR REPAINTED TO MATCH THE ORIGINAL COLOR. IF ANY PART HAS BEEN BENT, BROKEN OR OTHERWISE DAMAGED, IT SHALL BE REPLACED PRIOR TO PROJECT CLOSEOUT. ALL METAL ITEMS INSIDE THE BUILDING SUBJECT TO RUSTING, AND ALL FERROUS METAL EXPOSED TO THE WEATHER SHALL BE GIVEN ONE COAT OF RUST PREVENTIVE PRIMER AS SOON AS INSTALLED.

11.2. EQUIPMENT INSTALLATION

ALL EQUIPMENT AND RELATED PIPING, DUCTWORK, CONTROL WIRING AND ACCESSORIES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND, IF INSTALLED WITHIN WITHIN THE BUILDING ENVELOPE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE MAXIMUM AMOUNT OF HEADROOM. EQUIPMENT THAT REQUIRES ROUTINE MAINTENANCE SUCH AS FILTER REPLACEMENT SHALL BE INSTALLED AND ARRANGED TO BE ACCESSIBLE. PROVIDE ACCESS PANEL(S) AS REQUIRED AND/OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED WITH THE REQUIRED CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR AS REQUIRED BY GOVERNING CODES, WHICHEVER IS GREATER.

11.3. DUCTWORK

LOW PRESSURE DUCTWORK AND FITTING SHALL BE MADE TIGHT FOR MINIMUM AIR LEAKAGE. DUCT TAPE SHALL NOT BE USED TO SEAL JOINTS, TO MAKE TRANSITIONS OR FOR ANY OTHER REASON ON THE OUTSIDE OF THE WRAPPED INSULATION

INSTALL DUCTWORK AS HIGH AS POSSIBLE.

PROVIDE TURNING VANES AT ALL CHANGES IN DIRECTION.

PROVIDE VANED TEES AT BRANCH CONNECTIONS SERVING MORE THAN ONE DIFFUSER

PROVIDE VOLUME CONTROL DAMPERS AND BALANCING DEVICES AS REQUIRED TO DISTRIBUTE THE AIR AND AS INDICATED ON THE DRAWINGS.

NOTE: DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE INSIDE CLEAR, OR "FREE AREA" DIMENSIONS, CONTRACTOR SHALL MAKE ALLOWANCE FOR INTERNAL DUCT LINER (WHERE SPECIFIED) WHEN ORDERING PRE–FABRICATED DUCTWORK OR WHEN FABRICATING DUCTS IN THE FIELD.

11.4. AIR DEVICES

INSTALL ALL GRILLES AND DIFFUSERS TO BE FLUSH WITH THE PENETRATED SURFACE AND LEVEL OR STRAIGHT WITH SURROUNDING FEATURES. ALL CEILING MOUNTED AIR DEVICES SHALL BE LOCATED IN THE CEILING TILE INDICATED ON THE DRAWINGS. AT THE PROPER HEIGHT TO HOLD IT SNUG AGAINST THE CEILING.

12. INSTALL ROOF MOUNTED EQUIPMENT SUPPORT RAILS OR ROOF CURB AS REQUIRED FOR THE JOB CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT.

ALL ROOF PENETRATIONS FOR POWER AND CONTROL WIRING CONDUITS AND GAS, CONDENSATE, OR REFRIGERANT PIPING SHALL BE MADE WITH WATERPROOF PIPE SLEEVES OR CURB(S).

13. THIS CONTRACTOR SHALL ENGAGE THE SERVICES OF AN AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR TO ADJUST AND COMPLETELY BALANCE THE INSTALLED SYSTEM(S) TO THE DESIGN AIR QUANTITIES. CONTRACTOR SHALL PROVIDE THE OWNER AND THE LANDLORD A COPY OF THE CERTIFIED AIR BALANCE REPORT SHOWING DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT, DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.

14. ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.

FOR THE SAME PERIOD, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE PREMISES BY DEFECTS IN HIS WORKMANSHIP OR WORK AND/OR EQUIPMENT INSTALLED BY OTHERS UNDER HIS CONTRACT.

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PLUMBING FIXTURE SPECIFICATIONS

MARK	FIXTURE AND TYPE	SYMBOL	DRAINAGE		DOMESTIC WATER			MARK
			SAN	VENT	DCW	DHW	DTW	
WC1	WATER CLOSET –ADA –TANK TYPE – –		3"	2"	1/2"	–	–	MANUFACTURER: MANSFIELD (ADA) MODEL: MAVERICK 104–102, MAGNAFLUSH II FLOOR MOUNT, ELONGATED BOWL, 1.28 GPF, 12" ROUGH–IN OPEN FRONT SEAT: OLSONITE 10CC OR EQUAL GERBER
WC2	WATER CLOSET –TANK TYPE – – –		3"	2"	1/2"	–	–	MANUFACTURER: MANSFIELD MODEL: MAVERICK 104–102, MAGNAFLUSH II FLOOR MOUNT, ELONGATED BOWL, 1.28 GPF, 12" ROUGH–IN OPEN FRONT SEAT: OLSONITE 10CC OR EQUAL GERBER
UR1	URINAL (ADA) –FLUSH VALVE – – –		2"	2"	3/4"	–	–	MANUFACTURER: MANSFIELD (ADA) MODEL: SUBURBAN 475HE, WALL MOUNT URINAL, WALL CARRIER 1.0 GPF, FLUSH VALVE TOP SPUD OR EQUAL GERBER
LV1	LAVATORY –ADA –WALL MOUNT –		1–1/2"	1–1/2"	1/2"	1/2"	–	MANUFACTURER: MANSFIELD – (ADA) VITREOUS CHINA MODEL: ALTO II 251–4, 4"CENTER–FAUCET: SYMMONS MODEL S–20–2–BN–1.5, SINGLE HANDLE WITH POP–UP DRAIN, P–TRAP AND TRUEBRO "HAND LAV–GUARD"
WH1	WATER HEATER – 75 GAL., SET AT 140°F – NATURAL GAS –		–	–	3/4"	3/4"	–	MANUFACTURER: BRADFORD WHITE MODEL: LG2PDV75H803N, 75 GAL., GAS 80 CFH, LIGHT DUTY POWER DIRECT VENT WITH PRESSURE RELIEF VALVE, 77 GAL. RECOVERY @ 100°F RISE, PROVIDE EXPANSION TANK, DRAIN PAN WITH 1"DRAIN LINE TO FD1 WITH 3"AIR GAP. PROVIDE AND INSTALL WITH CONCENTRIC VENT KIT (3")
RP1	RECIRCULATING PUMP –WATER HEATER (WH1) – – –		–	–	–	–	–	RECIRCULATING PUMP MANUFACTURER: BELL & GOSSETT MODEL: SERIES PL–36 – 1/2" FLANGE, 1/6 HP, 120V – AQUA–STAT AND TIMER KIT
MV1	MIXING VALVE –WATER HEATER (WH1) – – –		–	–	3/4"	3/4"	3/4"	CALEFFI – MODEL 521359A – HOT WATER TEMPERATURE CONTROL VALVE WITH BRONZE BODY CONSTRUCTION, SOLID WAX HYDRAULIC PRINCIPLE THERMOSTAT THAT CONTROLS BOTH HOT AND COLD WATER, INTEGRAL FILTER WASHERS AND CHECK VALVES, AND ADJUSTMENT CAP WITH LOCKING FEATURE SET TO PROVIDE MAXIMUM 115 DEG. F HOT WATER TO THE LAVATORY FAUCETS
FD1	FLOOR DRAIN –AND TRAP SEAL – – –		4"	2"	–	–	–	MANUFACTURER: MIFAB MODEL: F1000–C–TS–3–MI–GARD, 5" (4"DRAIN) OR 8" (6"DRAIN) ROUND DRAIN–CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, SATIN FINISHED STAINLESS STEEL STRAINER
FS1	FLOOR SINK – –		3"	–	–	–	–	MANUFACTURER: MIFAB MODEL: FS1520 – SIZE 8x8x6 DEEP, 3/4" GRATE –

NOTE:
COORDINATE FIXTURE EQUIPMENT FINAL CONNECTIONS WITH PLUMBING AND MECHANICAL EQUIPMENT PURCHASED.

PLUMBING FIXTURE NOTES

1. ROUGH ACCORDING TO ABOVE SCHEDULE UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE PLUMBING INSTALLATION AS SPECIFIED IN SPECIFICATIONS ON DRAWINGS.
3. REFER TO SPECIFICATIONS ON DRAWING FOR ADDITIONAL PLUMBING EQUIPMENT AND INFORMATION.
4. COORDINATE PLUMBING FIXTURE MANUFACTURER WITH BUILDING OWNER. (PROVIDE SPECIFIED OR EQUAL EQUIPMENT.)
5. PROVIDE SHUT–OFF VALVES ON ALL PLUMBING FIXTURES.

ADA ACCESS NOTES

1. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
2. HOT WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

LEGEND

–NG–	NATURAL GAS PIPING
–DCW/CW–	DOMESTIC COLD WATER
–DHW/HW–	DOMESTIC HOT WATER (115°F)
–CIRC–	CIRCULATING HOT WATER (110°F)
–SAN/S–	SANITARY SEWER LINE
–V–/–VT–	VENT LINE
	SHUT–OFF BALL VALVE
	UNION
	GAS VALVE
	CHECK VALVE
POC	POINT OF PIPE CONNECTION
	VENT THROUGH ROOF
FDC	FLOOR DRAIN WITH TRAP
CO	FLOOR CLEANOUT
DHC	DRAIN HUB WITH TRAP
1 / P100	DETAIL OR FLOOR PLAN NUMBER / DRAWING NUMBER

ABBREVIATIONS

DCW/CW	DOMESTIC COLD WATER
DHW/HW	DOMESTIC HOT WATER
CIRC	CIRCULATING HOT WATER
NG	NATURAL GAS
SAN/S	SANITARY SEWER
V/VT	VENT
VTR	VENT THROUGH ROOF
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
POC	POINT OF CONNECTION
SOV	SHUTOFF VALVE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
CFH	CUBIC FEET PER HOUR
MEP	MECHANICAL–ELECTRICAL–PLUMBING

FOOD SERVICE PLUMBING EQUIPMENT SCHEDULE

EQUIPMENT INFORMATION

Item #	Quantity	Unit	Category
2	2	ea	Gas Floor Fryer
2.1	3	ea	Safety System Moveable Gas Connector
3	1	ea	Range, 60", 6 Burners, 24" Griddle/Broiler
3.1	1	ea	Salamander Broiler, Gas
3.2	1	ea	Safety System Moveable Gas Connector
7	1	ea	Convection Oven, Gas
15	1	ea	Hot Food Serving Counter / Table
19	1	ea	One (1) Compartment Sink
19.1	1	ea	Pre-Rinse Faucet Assembly, with Add On Faucet
28	1	ea	Dishtable, with Potsinks
29	3	ea	Hand Sink
31	1	ea	Dishwasher, Door Type, Ventless
38	1	ea	Ice Maker, Cube-Style
	1	ea	Ice Bin for Ice Machines
39	1	ea	Beverage Counter
40	1	ea	Coffee Brewer
B01	1	ea	Underbar Sink Units
B02	1	ea	Corner Angle Filler
B04	2	ea	Glass Rack
B05	2	ea	Ice Bin with Bottle Wells
B07	2	ea	Corner Angle Filler
B08	2	ea	Underbar Sink Units
	1	ea	Draft Beer / Wine Dispensing Tower
RT2	1	ea	Ice Maker with Bin, Cube-Style
RT3	1	ea	Ice Bin with Bottle Wells
RT4	1	ea	Underbar Sink Units
RT5	1	ea	Underbar Sink Units

PLUMBING SPECIFICATIONS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

PLUMBING WORK SHALL BE AS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED. WORK SHALL CONSIST OF PROVIDING A COMPLETE AND OPERATIONAL SYSTEM INCLUDING ALL FIXTURES, PIPING, VALVES, AND OTHER REQUIRED DEVICES, EQUIPMENT, ETC. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS, SPECIFICATIONS, AND CODE REQUIREMENTS, THE CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AS REQUIRED FOR COMPLIANCE WITH ALL CODES AND FOR APPROVAL OF THE SYSTEM. THE SYSTEM SHALL EXTEND TO AND CONNECT INTO THE EXISTING PROJECT WATER AND WASTE SYSTEM AS INDICATED ON THE DRAWINGS.

WHENEVER A MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURERS' OR VENDORS NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE LIKE, IT IS SO IDENTIFIED FOR THE PURPOSE OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT OF OTHER MANUFACTURERS OR VENDORS WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE GENERAL DESIGN WILL BE CONSIDERED EQUALLY ACCEPTABLE PROVIDED THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SO PROPOSED IS, IN THE OPINION OF THE ARCHITECT/ENGINEER, OF EQUAL SUBSTANCE, APPEARANCE, AND FUNCTION. THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SHALL NOT BE PURCHASED OR INSTALLED BY THE CONTRACTOR WITHOUT THE ARCHITECT'S/ ENGINEER'S WRITTEN APPROVAL.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SHOP DRAWINGS AND/OR MANUFACTURERS SUBMITTAL DATA WITH CAPACITY AND CHARACTERISTICS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE AND OR INSTALLATION OF THE WORK. A MINIMUM OF FIVE (5) COPIES SHALL BE SUBMITTED. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BEGINNING WORK FOR THE PURPOSE OF OBSERVING EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF THE WORK. THE CONTRACTOR SHALL MAKE ALLOWANCES FOR PROVIDING ALL MATERIAL, EQUIPMENT, AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND ALL CODE REQUIREMENTS.

ALL WATER PIPING SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE SOLDERED WITH LEAD FREE SOLDER. ALL EXPOSED PIPING SHALL BE CHROME PLATED. WASTE AND VENT SHALL BE SERVICE WEIGHT CAST IRON WITH EITHER NO–HUB OR "CHARLOTTE SEAL" JOINTS. NO–HUB JOINTS ARE NOT PERMITTED BELOW GRADE. ALL EQUIPMENT REQUIRING PLUMBING CONNECTIONS SHALL BE CONNECTED BY THE PLUMBER REGARDLESS OF WHO PROVIDES THE EQUIPMENT OR FIXTURE. UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER OR SCHEDULE 40 PVC. FORCED MAINS SHALL BE PVC OR APPROVED EQUAL.

ALL HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH (HOT/CIRCULATING WATER PIPING MINIMUM 1" THICK 3 PCF DENSITY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE), (COLD WATER PIPING 1/2"INSULATION UP TO 2" PIPE AND 1"INSULATION ON 2–1/2"PIPE AND ABOVE WITH 3 PCF DENSITY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE). ALL JOINTS SHALL BE LAPPED AND SEALED WITH AN APPROVED TYPE ADHESIVE AND END STRIPS AS RECOMMENDED BY THE INSULATION SUPPLIER AND/OR MANUFACTURER.

HORIZONTAL SEWER PIPING ABOVE GRADE SHALL BE INSULATED WITH MINIMUM 1" THICK 3 PCF DENSITY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE. ALL JOINTS SHALL BE LAPPED AND SEALED WITH AN APPROVED TYPE ADHESIVE AND END STRIPS AS RECOMMENDED BY THE INSULATION SUPPLIER AND/OR MANUFACTURER. (TO AVOID CONDENSATION).

VACUUM BREAKERS SHALL BE PROVIDED FOR ALL HOSE CONNECTIONS AND OTHER POINTS WHERE CROSS CONTAMINATION CAN OCCUR. REDUCED PRESSURE BACKFLOW PREVENTERS SHALL BE PROVIDED WHERE REQUIRED BY CODE. ALL FIXTURES, HOSE BIBBS, FLOOR DRAINS, ETC., SHALL BE PROVIDED AS INDICATED AND SCHEDULED ON THE PLANS. THE SYSTEM SHALL BE TESTED, CLEANED, AND DISINFECTED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.

THE ENTIRE PLUMBING SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED FOR ONE (1) YEAR FROM ACCEPTANCE BY THE OWNER. ALL GUARANTEES SHALL BE WRITTEN, DATED, AND FORWARDED TO THE OWNER. ALL DEFECTIVE EQUIPMENT AND/OR MATERIAL SHALL BE REPLACED AT NO EXPENSE TO THE OWNER.

AT THE CONTRACTOR'S OPTION, PVC MAY BE UTILIZED ABOVE GRADE IN CONCEALED LOCATIONS FOR DWV SYSTEM, SUBJECT TO CODE COMPLIANCE. APPROVAL FROM OWNER/TENANT OR LOCAL INSPECTOR IS REQUIRED.

AT THE CONTRACTOR'S OPTION, PEX PIPING MAY BE UTILIZED ABOVE GRADE SUBJECT TO CODE COMPLIANCE. APPROVAL FROM OWNER/TENANT OR LOCAL INSPECTOR IS REQUIRED.

PVC/CPVC PIPING SHALL HAVE A FLAME SPREAD RATING LESS THAN 25 AND A SMOKE DEVELOPMENT RATING LESS THAN 50.

INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.

PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.

ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.

ALL PLUMBING SERVICE PIPING USE ON PROJECT TO MEET ALL STATE AND LOCAL CODES. COORDINATE USE OF PVC PIPING ABOVE AND BELOW GRADE WITH LOCAL AUTHORITIES PRIOR TO WORK START–UP. (WASTE/SANITARY, VENT, DOMESTIC HOT AND, COLD LINES)

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

B. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR IS TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION AND MAKE SUCH CHANGES IN PIPING, EQUIPMENT LOCATIONS, ETC. AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. COORDINATE ALL CHANGES WITH OTHER TRADES AND ARCHITECT/ENGINEER.

C. ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS CONTRACT. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
NOTES AND SCHEDULES

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ARCHITECTS • PC
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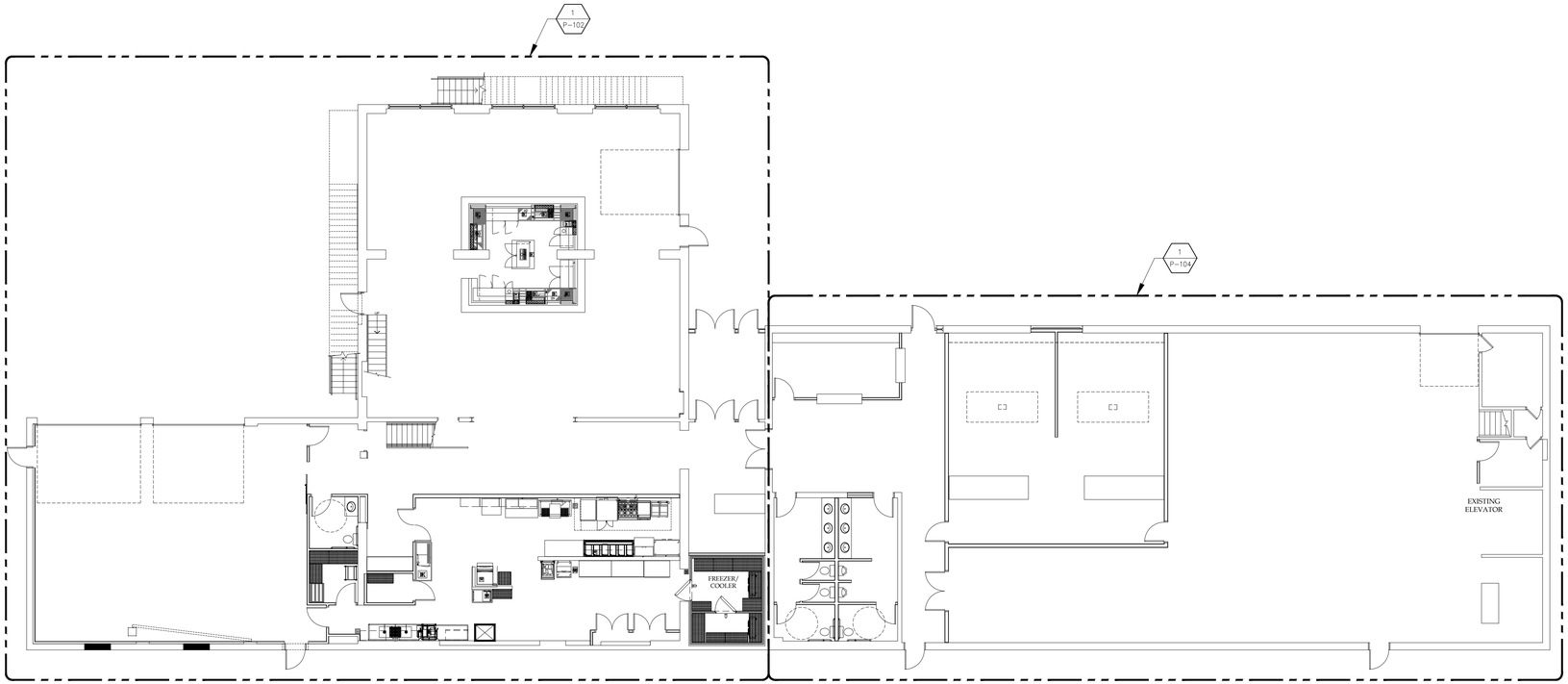
AMHERST, NY 14221 FAX 716.691.4773

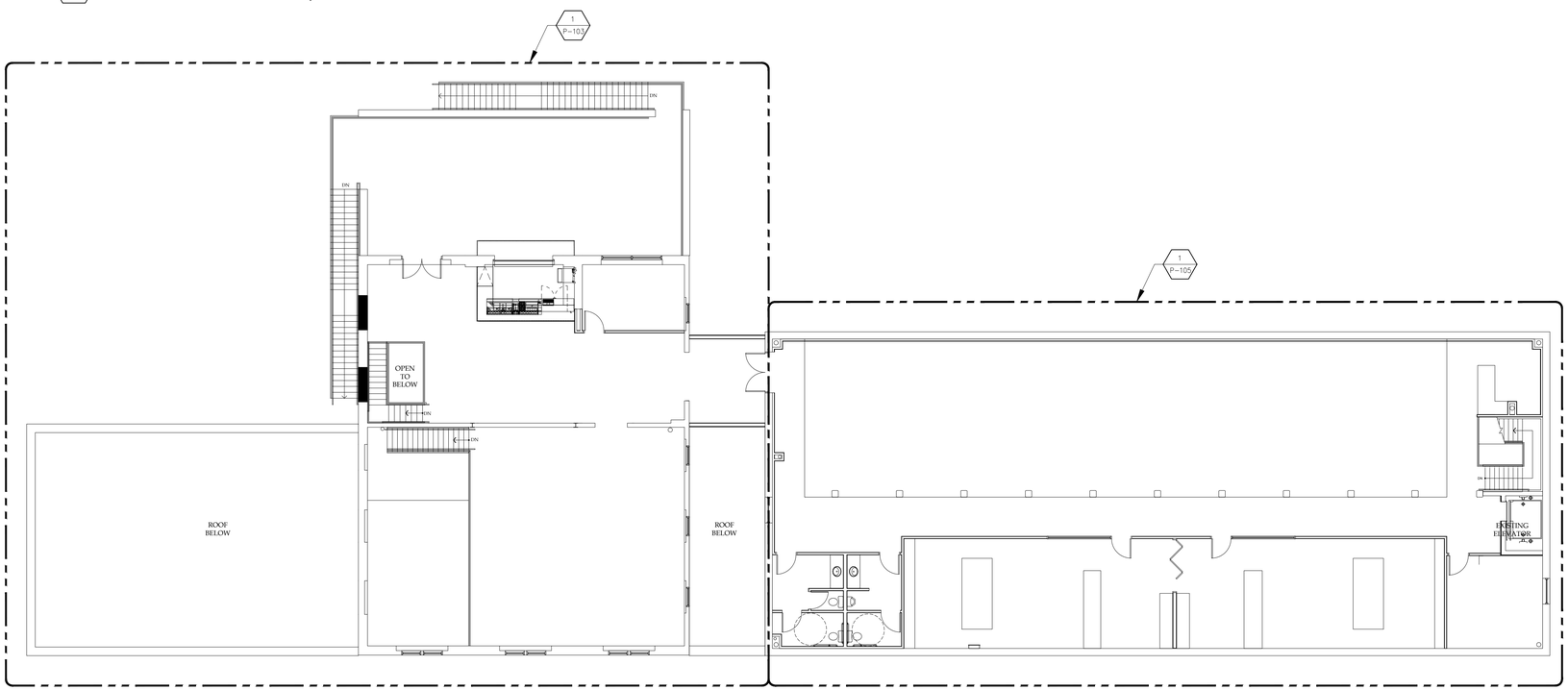
SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: P-100



1 P-101 FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH



2 P-101 SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH

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SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
OVERALL FIRST AND SECOND FLOOR PLANS

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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: P-101

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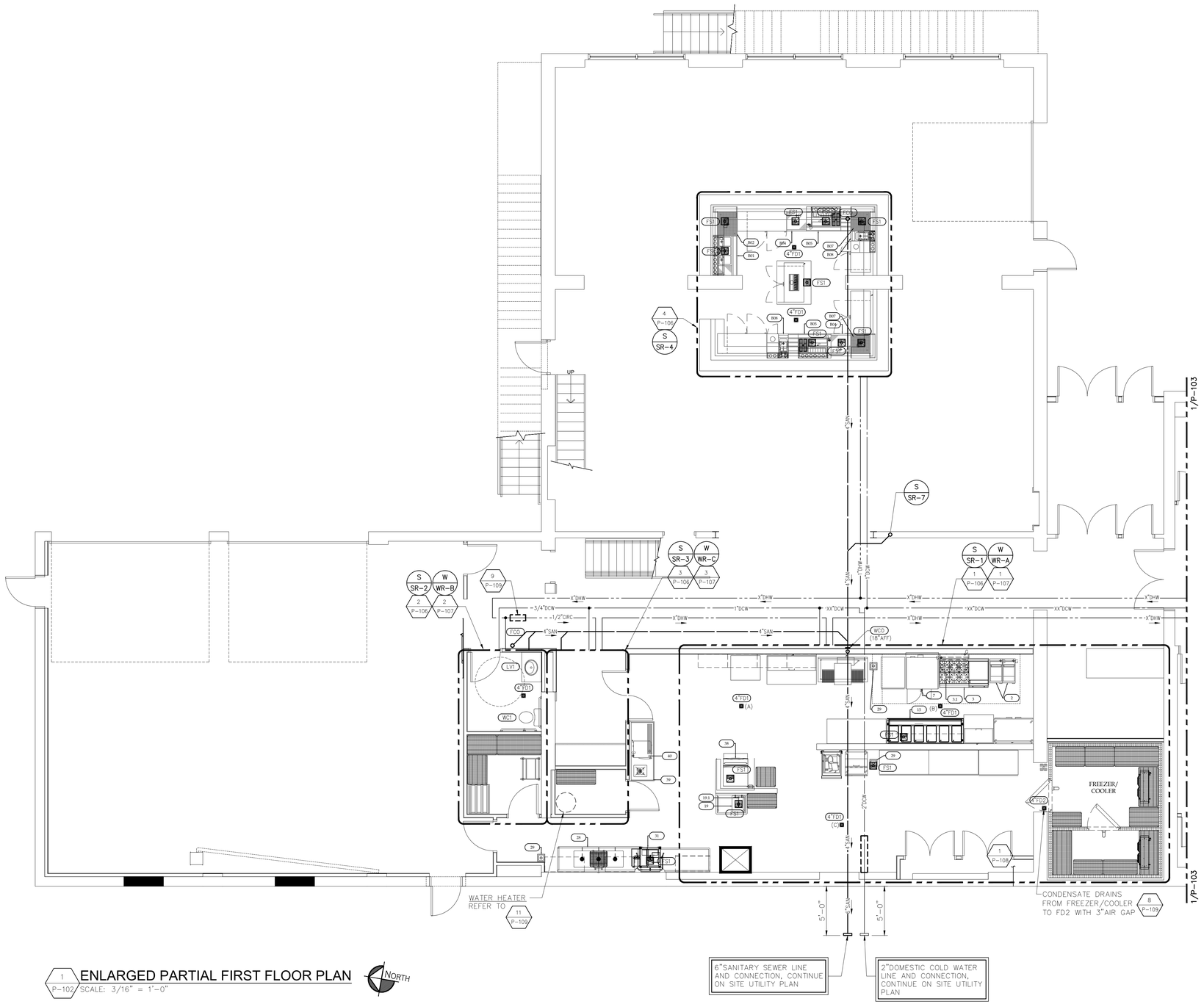
10225 Main Street, Victoria Park, Suite 10B
Clarence, New York 14031
Phone: (716) 803-8787
Email: info@kromacdesign.com Project # 24-11-19

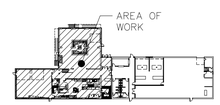
NOTES:

1. REFER TO P-106 FOR WASTE AND VENT RISERS.
2. REFER TO P-107 FOR DOMESTIC WATER RISERS.
3. REFER TO P-108 FOR NATURAL GAS RISER.
4. REFER TO P-109 FOR PLUMBING DETAILS.



1 P-102 ENLARGED PARTIAL FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

NOTE:
VERIFY LOCATION OF SANITARY WASTE, DOMESTIC WATER AND NATURAL GAS UTILITIES IN FIELD PRIOR TO WORK STARTUP.



KEY PLAN
SCALE: NONE

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SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
PARTIAL FIRST FLOOR PLAN (LEFT SIDE)

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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: P-102

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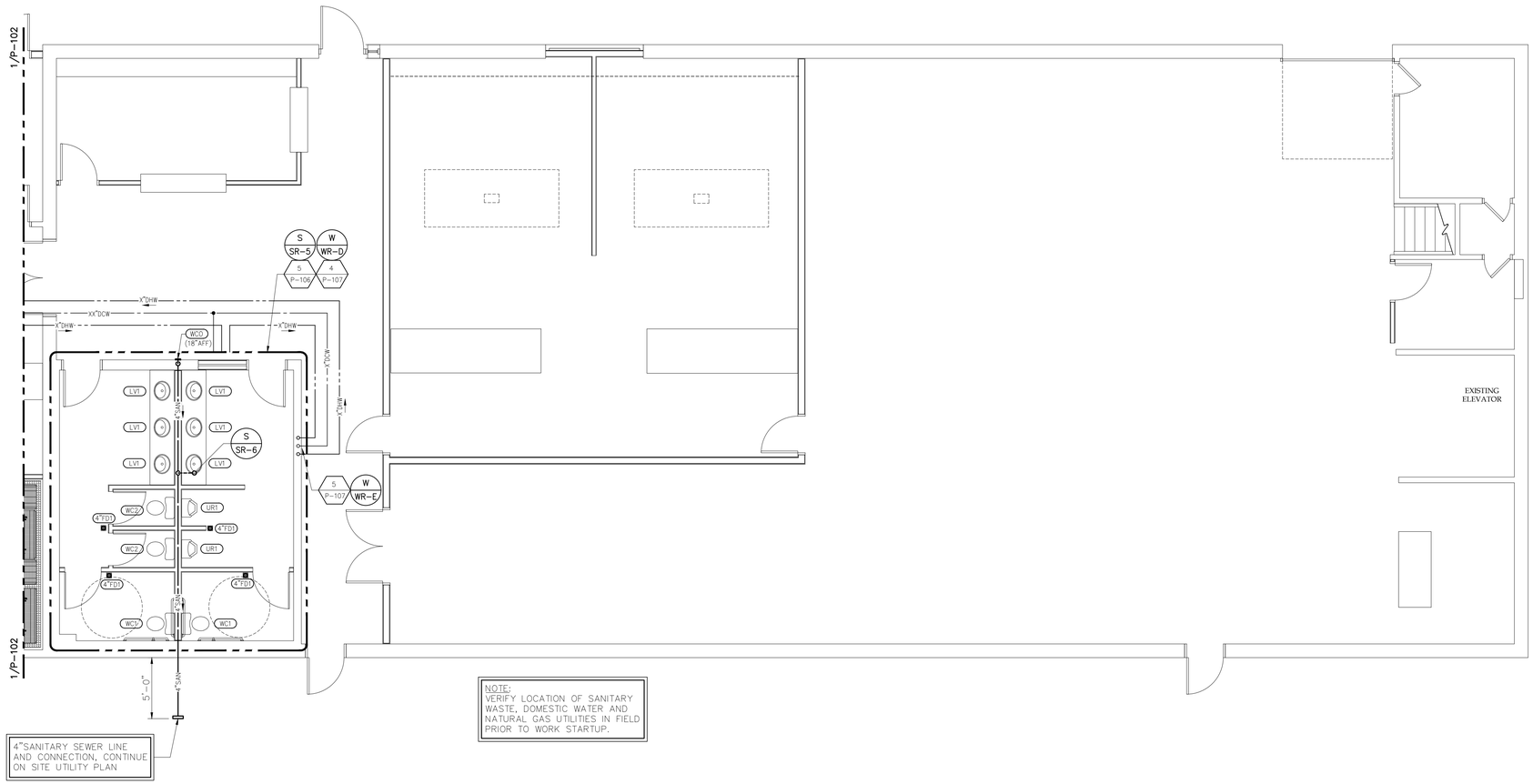


NOTE:
VERIFY LOCATION OF SANITARY WASTE, DOMESTIC WATER AND NATURAL GAS UTILITIES IN FIELD PRIOR TO WORK STARTUP.

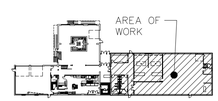
4"SANITARY SEWER LINE AND CONNECTION, CONTINUE ON SITE UTILITY PLAN

1 P-103 ENLARGED PARTIAL FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

NOTES:

1. REFER TO P-106 FOR WASTE AND VENT RISERS.
2. REFER TO P-107 FOR DOMESTIC WATER RISERS.
3. REFER TO P-108 FOR NATURAL GAS RISER.
4. REFER TO P-109 FOR PLUMBING DETAILS.



KEY PLAN
SCALE: NONE

NORTH

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SA PROJECT TEAM:
PROJ. ARCH. _____ PRINCIPAL P. Silvestri
JOB CAPT. W. Manhardt DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
PARTIAL FIRST FLOOR PLAN (RIGHT SIDE)

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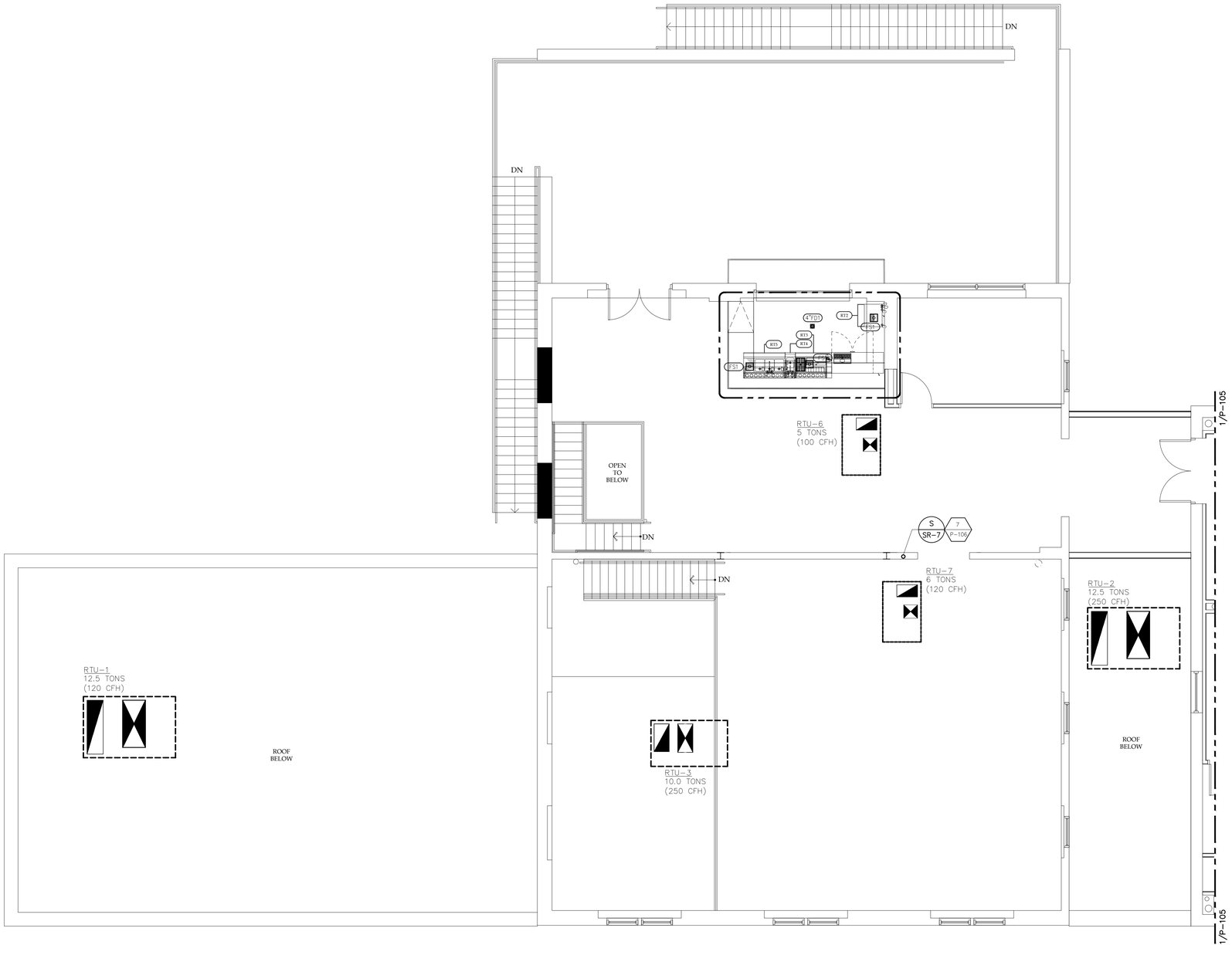
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: P-103

NOTES:

1. REFER TO P-106 FOR WASTE AND VENT RISERS.
2. REFER TO P-107 FOR DOMESTIC WATER RISERS.
3. REFER TO P-108 FOR NATURAL GAS RISER.
4. REFER TO P-109 FOR PLUMBING DETAILS.



1 P-104 ENLARGED PARTIAL SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
PARTIAL SECOND FLOOR PLAN (LEFT SIDE)

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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: P-104

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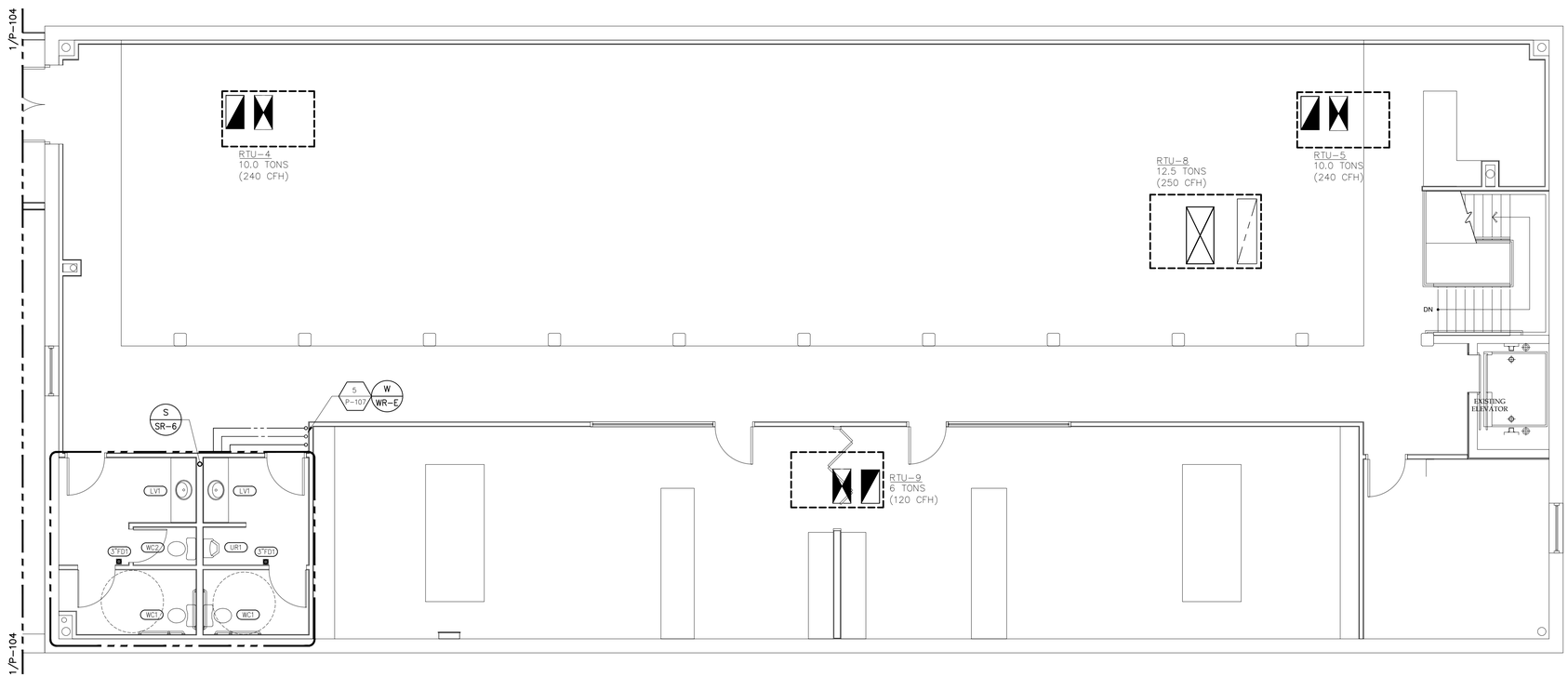
Email: info@kromacdesign.com
Project # 24-11-19

NOTES:

1. REFER TO P-106 FOR WASTE AND VENT RISERS.
2. REFER TO P-107 FOR DOMESTIC WATER RISERS.
3. REFER TO P-108 FOR NATURAL GAS RISER.
4. REFER TO P-109 FOR PLUMBING DETAILS.



1 P-105 ENLARGED PARTIAL SECOND FLOOR PLAN

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

NORTH

KEY PLAN

SCALE: NONE

NORTH

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PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:

PARTIAL SECOND FLOOR PLAN (RIGHT SIDE)

SILVESTRI
ARCHITECTS · PC

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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: P-105

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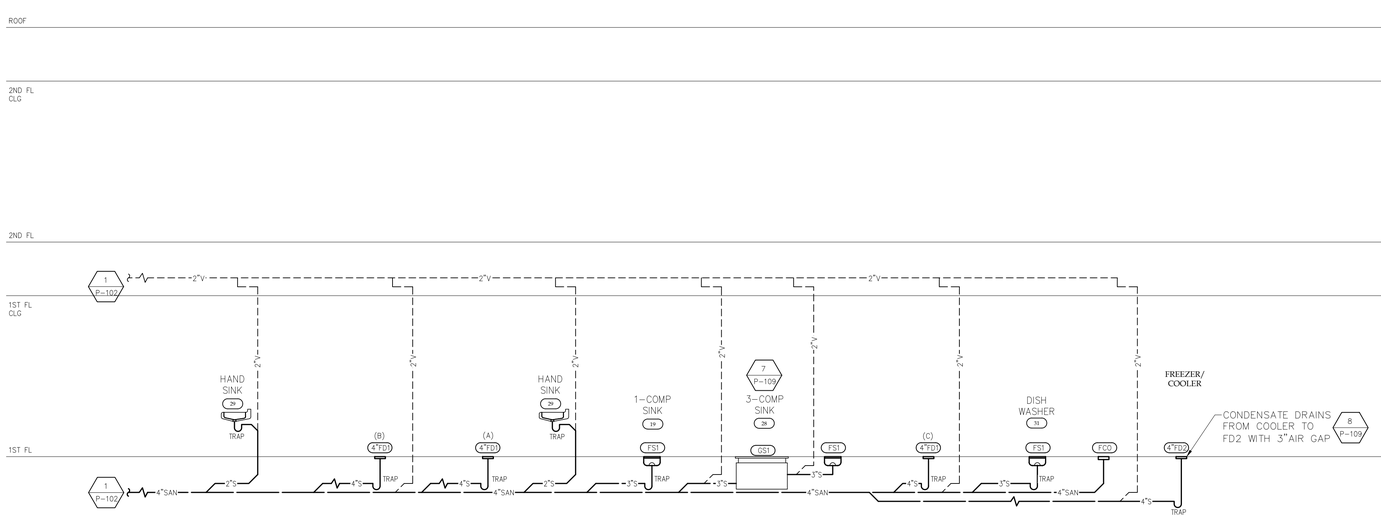
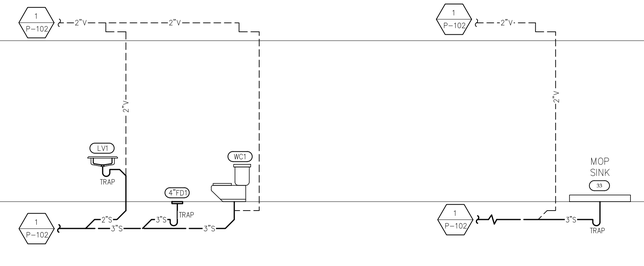
Project # 24-11-19

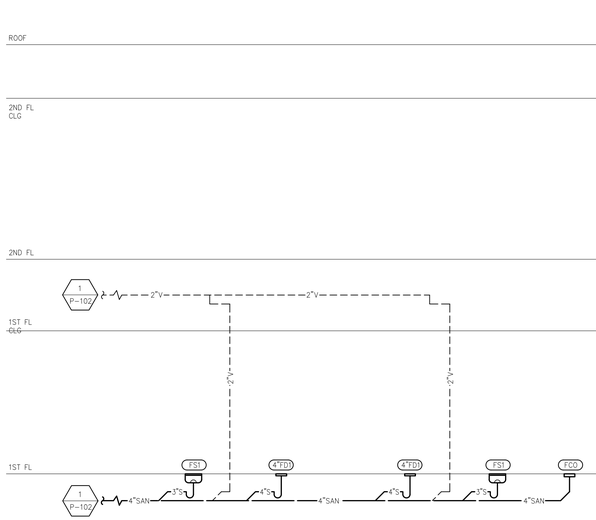


1 P-104 WASTE RISER SR-1
SCALE: NONE

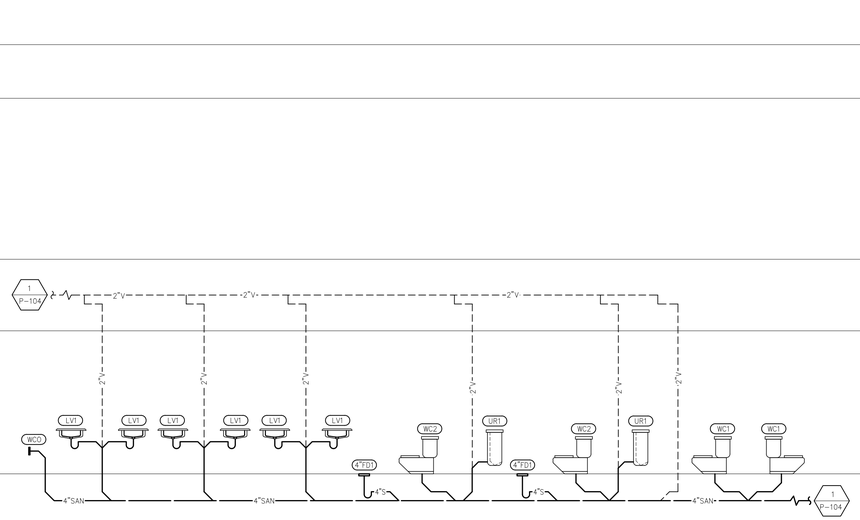


2 P-106 WASTE RISER SR-2
SCALE: NONE

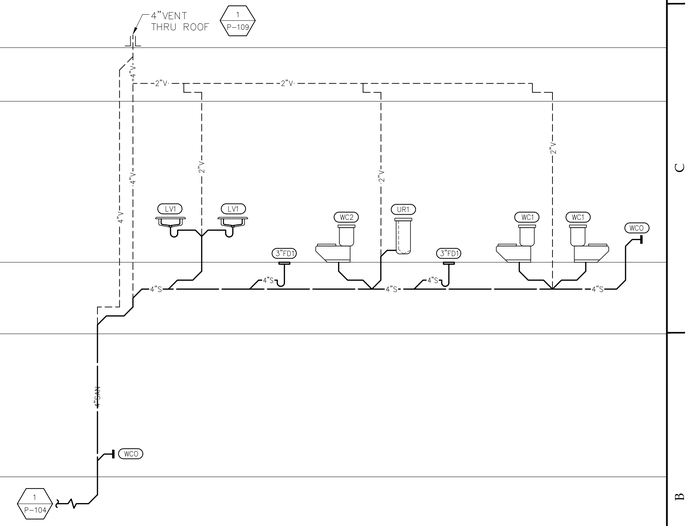
3 P-106 WASTE RISER SR-3
SCALE: NONE



4 P-104 WASTE RISER SR-4
SCALE: NONE



5 P-104 WASTE RISER SR-5
SCALE: NONE



6 P-104 WASTE RISER SR-6
SCALE: NONE

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PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:

WASTE AND VENT RISERS

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SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: P-106

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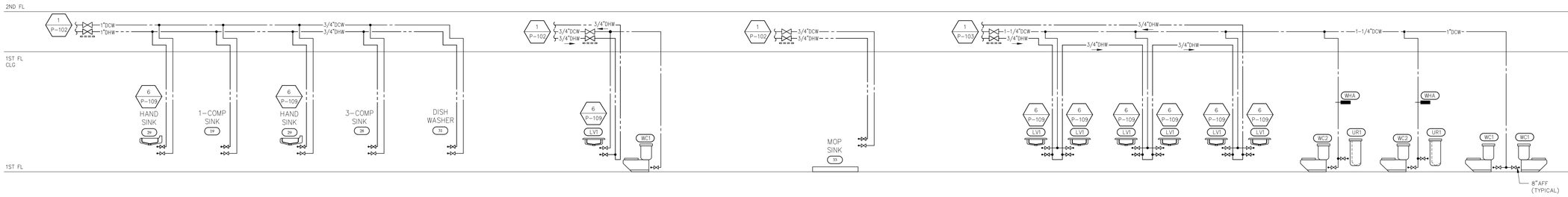
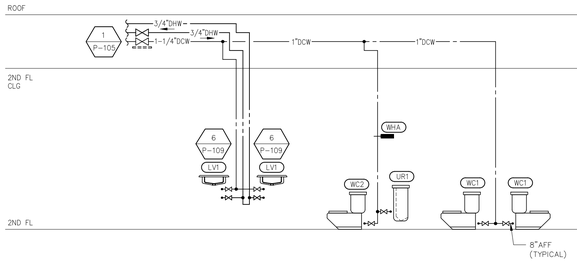


1 P-107 WATER RISER WR-A
SCALE: NONE

2 P-107 WATER RISER WR-B
SCALE: NONE

3 P-107 WATER RISER WR-C
SCALE: NONE

4 P-107 WATER RISER WR-D
SCALE: NONE



5 P-107 WATER RISER WR-E
SCALE: NONE

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PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

WATER RISERS

SILVESTRI
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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: P-107

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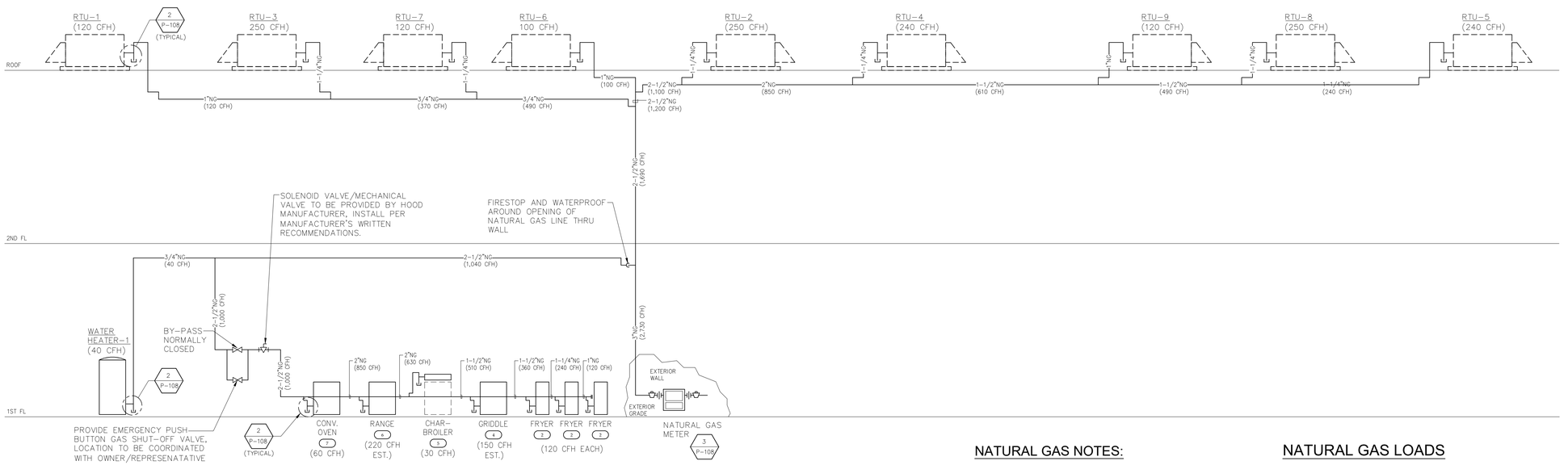
Email: info@kromacdesign.com Project # 24-11-19



1 P-108 NATURAL GAS RISER DIAGRAM
SCALE: NONE

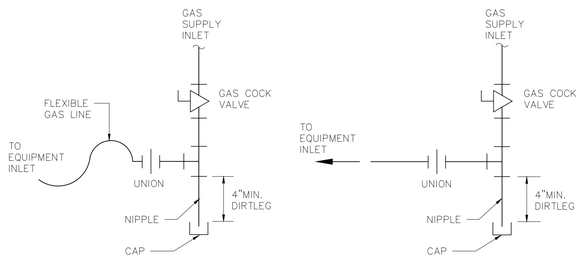
REFER TO DRAWINGS P-102 THRU P-105 FOR NATURAL GAS EQUIPMENT LOCATION

NATURAL GAS NOTES:

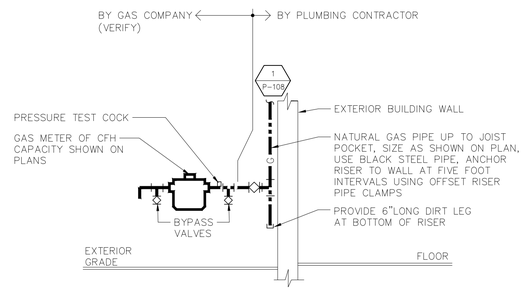
1. PROVIDE GAS VALVE, DIRT LEG, AND UNION AT EACH APPLIANCE.
2. PAINT ALL EXPOSED GAS PIPING (1) COAT PRIMER (2) COATS YELLOW FINISH. (EXPOSED TO OUTSIDE)
3. GAS SIZING BASED ON MINIMUM GAS PRESSURE OF 4" TO 9" WC DOWNSTREAM OF GAS METER WITH A PRESSURE DROP OF 1.0 AND A TOTAL LENGTH OF **200'-0"**.
4. REFER TO XXX FOR GAS LINE CONNECTIONS TO EQUIPMENT AND 4/P-105 AND 5/P-106 FOR DETAILS.
5. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION OF MAIN GAS SERVICE TO BUILDING WITH GAS COMPANY IF REQUIRED. PROVIDE ALL COST FOR GAS CONNECTION FROM GAS MAIN TO GAS METER SETTING WITH PLUMBING BID. COORDINATE WITH LOCAL GAS COMPANY FOR PRICING.

NATURAL GAS LOADS

MECHANICAL EQUIPMENT	
ROOTOP UNIT-1 (RTU-1)	120,000 BTUH
ROOTOP UNIT-2 (RTU-2)	250,000 BTUH
ROOTOP UNIT-3 (RTU-3)	250,000 BTUH
ROOTOP UNIT-4 (RTU-4)	240,000 BTUH
ROOTOP UNIT-5 (RTU-5)	240,000 BTUH
ROOTOP UNIT-6 (RTU-6)	100,000 BTUH
ROOTOP UNIT-7 (RTU-7)	120,000 BTUH
ROOTOP UNIT-8 (RTU-8)	250,000 BTUH
ROOTOP UNIT-9 (RTU-9)	120,000 BTUH
MAKE-UP AIR UNIT	207,000 BTUH
WATER HEATER (WH1)	40,000 BTUH
KITCHEN EQUIPMENT	
(2) FRYER (2 @ 120,000 BTUH EACH)	240,000 BTUH
(3) RANGE, GRIDDLE/BROILER	307,000 BTUH
(3.1) SALAMANDER BROILER	30,000 BTUH
(7) CONVECTION OVEN	60,000 BTUH
LOAD TOTAL	2,574,000 BTUH (2,574 CFH)



2 P-108 GAS CONNECTION DETAIL
SCALE: NONE



VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR COMPLETE INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECIFICATIONS. GAS COMPANY SHALL EXCAVATE, BACKFILL AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.

3 P-108 NATURAL GAS METER ELEVATION
NONE

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
NATURAL GAS RISER

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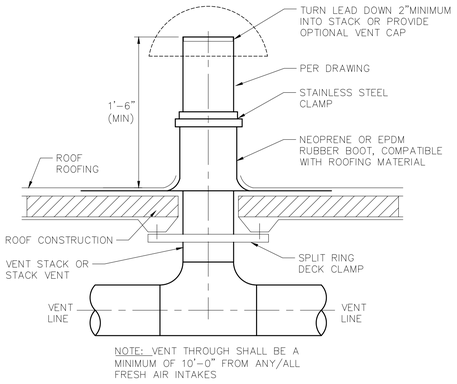
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

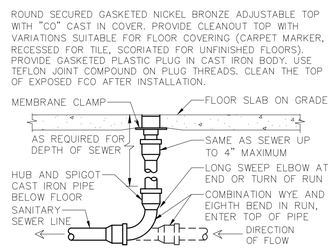
DRAWING #: P-108



NOTE: VENT THROUGH SHALL BE A MINIMUM OF 10'-0" FROM ANY/ALL FRESH AIR INTAKES

1 P-109 VENT THRU ROOF DETAIL

SCALE : NONE

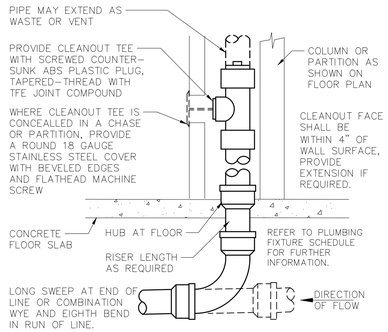


ROUND SECURED GASKETED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.

LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACK FILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

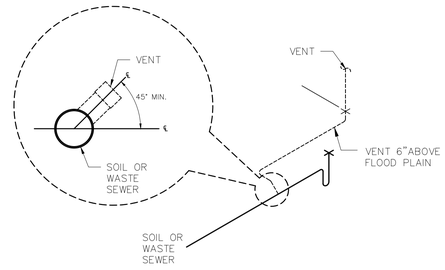
2 P-109 FLOOR CLEANOUT DETAIL

SCALE : NONE



3 P-109 WALL CLEANOUT DETAIL

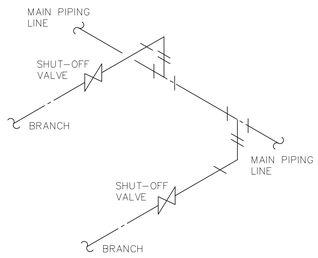
SCALE : NONE



NOTE:
CONNECT VENT TO SOIL OR WASTE PIPING ABOVE CENTERLINE. UNDER SLAB HORIZONTAL CONNECTIONS OF VENT PIPING TO WASTE SEWER SYSTEM PIPELINE SHALL NOT BE ALLOWED.

4 P-109 VENT PIPE INSTALLATION

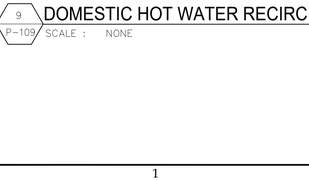
SCALE: NONE



NOTE: TOP OFFSET REQUIRED ON ALL PIPING TAKEOFFS.

5 P-109 PIPING TAKE-OFF DETAIL

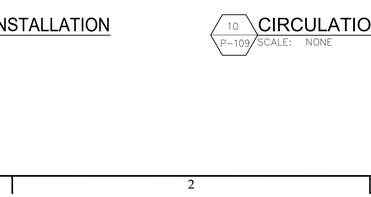
SCALE : NONE



CALEFFI - MODEL 521201AP (SINK MIXER) - HOT WATER TEMPERATURE CONTROL VALVE WITH BRASS BODY CONSTRUCTION, SOLID WAX HYDRAULIC PRINCIPLE THERMOSTAT THAT CONTROLS BOTH HOT AND COLD WATER, INTEGRAL FILTER WASHERS AND CHECK VALVES, ADJUSTMENT CAP WITH LOCKING FEATURE SET TO PROVIDE MAXIMUM 105°F HOT WATER TO THE BATHROOM/HAND SINK FAUCETS

6 P-109 TEMPERED WATER DETAIL

SCALE: NONE

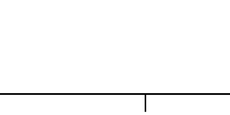


7 P-109 THREE BAY SINK DETAIL

SCALE : NONE

NOTE:
GREASE TRAP MAY BE LOCATED BELOW 3-BAY SINK IF SPACE AND CONNECTIONS WORK. COORDINATE WITH 3-BAY SINK PURCHASED.

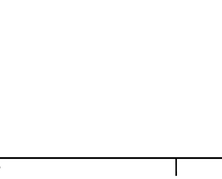
GREASE INTERCEPTOR CALCULATION



FLOOR DRAIN

NOTE:

A. PROVIDE OPENING IN DRAIN COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.



FUNNEL FLOOR DRAIN

NOTE:

A. PROVIDE OPENING IN DRAIN COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

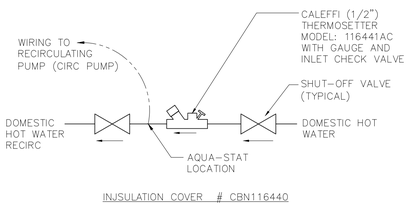
FLOOR SINK

NOTE:

A. PROVIDE OPENING IN DRAIN GRATE (PREVENT SPLASHING).

8 P-109 FLOOR DRAIN/FLOOR SINK DETAILS

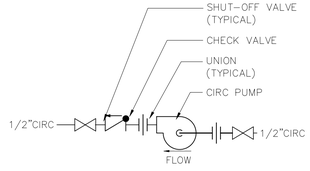
SCALE: NONE



INJULATION COVER # CBN116440

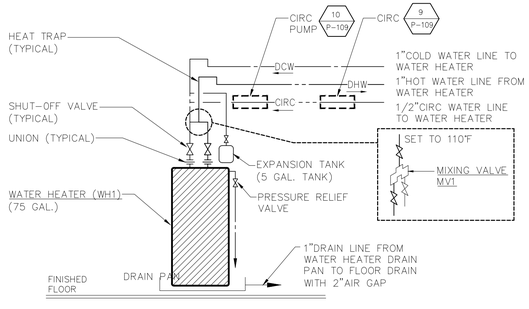
9 P-109 DOMESTIC HOT WATER RECIRC INSTALLATION

SCALE : NONE



10 P-109 CIRCULATION PUMP DETAIL

SCALE: NONE



11 P-109 WATER HEATER DETAIL (WH1)

SCALE : NONE

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

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DRAWING #: P-109

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LIGHTING FIXTURE SCHEDULE

FIXTURE DES.	FIXTURE TYPE	DESCRIPTION	MANUFACTURER MODEL No.	MOUNTING	LAMPS	BALLAST	VOLTAGE

GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

- E.C. SHALL PROVIDE AND INSTALL ALL NECESSARY FIXTURE LAMPS.
- E.C. SHALL VERIFY ALL FINAL FIXTURE COLORS & FINISHES WITH ARCHITECT/OWNER PRIOR TO PURCHASING FIXTURES.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES, E.C. SHALL PROVIDE NECESSARY MOUNTING KITS ASSOCIATED WITH FIXTURES FOR PROPER
- E.C. SHALL COORDINATE ALL TYPE AND LOCATIONS OF SWITCHES WITH OWNER PRIOR TO START OF CONSTRUCTION.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT / MOTOR DATA						SOURCE PROTECTION DEVICE				BRANCH CIRCUIT CONDUIT & WIRE	
EQUIPMENT DESIGNATION (RTU-1 M)	LOCATION	HP	MCA	PHASE	VOLTS	BREAKER	POLE	PANELBOARD SOURCE	CIRCUIT NO.	QUANTITIES AND SIZE	REFERENCE NOTES

A. EC SHALL BE RESPONSIBLE TO VERIFY ALL CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERES, ETC.) OF MECHANICAL EQUIPMENT PRIOR TO CONNECTION AGAINST APPROVED SHOP DRAWINGS.

WIRING SCHEDULE REFERENCE NOTES

1. EC SHALL POWER GFI TYPE MAINTENANCE RECEPTACLE PROVIDED WITH ROOFTOP UNIT TO ELECTRIC PANEL.
2. EC SHALL PROVIDE AND INSTALL HACR TYPE CIRCUIT BREAKER.
3. EC SHALL FURNISH AND INSTALL DUCT TYPE FIRE ALARM SMOKE DETECTOR IN RETURN AIR DUCTS IN ACCORDANCE WITH SYSTEM MFGR'S INSTRUCTIONS. PROVIDE AND INSTALL SEPARATE REMOTE TEST STATIONS. REMOTE TEST STATIONS SHALL BE LOCATED +/- 6" BELOW CEILING (8'-6" ABOVE FLOOR MAX.) AND IN CLOSE PROXIMITY TO THE DETECTOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED FIRE ALARM SYSTEM WIRING TO THE MECHANICAL EQUIPMENT CONTROLS FOR PROPER UNIT SHUTDOWN AND RE-START OPERATION IN ACCORDANCE WITH NFPA REQUIREMENTS. FIELD COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
4. EC SHALL FURNISH AND INSTALL FIRE ALARM FAN SHUTDOWN RELAY.
5. EC SHALL RECEIVE, INSTALL AND CONNECT DISCONNECT SWITCH PROVIDED BY MECHANICAL EQUIPMENT INSTALLER. COORDINATE LOCATION WITH MECHANICAL EQUIPMENT INSTALLER.
6. EXHAUST FAN TO BE CONTROLLED FROM HOOD. COORDINATE WITH HOOD MANUFACTURE PRIOR TO ROUGH-IN.
7. EXHAUST FAN TO BE CONTROLLED BY TIMECLOCK AND RUN CONTINUOUSLY DURING OCCUPIED HOURS.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
(S)	PHOTOELECTRIC SMOKE SENSOR
(S)I	IONIZATION TYPE SMOKE SENSOR
(H)	COMBINATION OF RATE-OF-RISE & FIXED TEMPERATURE HEAT DETECTOR, UNLESS OTHERWISE NOTED FIXED-135°F & ROR-15°F/MIN
(H)190°	FIXED TEMPERATURE ELEMENT HEAT DETECTOR. TAG HEAT ELEMENT INDICATES RATING
(S)S	DUCT DETECTOR. PROVIDE HOUSING COMPLETE WITH SAMPLING TUBES & IN A WEATHER PROOF ENCLOSURE IF INSTALLED OUTDOORS. S= SUPPLY DUCT, R=RETURN DUCT
(CO)	CARBON MONOXIDE DETECTOR
F	MANUAL PULL STATION, UNLESS OTHERWISE NOTED, PROVIDE DUAL ACTION.
F	FIRE ALARM NOTIFICATION AUDIO/VISUAL DEVICE. PROVIDE 15cd STROBE RATING UNLESS OTHERWISE NOTED
F	FIRE ALARM NOTIFICATION VISUAL DEVICE. PROVIDE 15cd STROBE RATING UNLESS OTHERWISE NOTED
FAAP	FIRE ALARM ANNUCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
AUX	FIRE ALARM AUXILARY RELAY
CZAM	FIRE ALARM CONTROLLABLE ZONE ADDRESSABLE MODULE
IAM	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE
FS	FIRE ALARM CONNECTION TO SPRINKLER FLOW SWITCH
TS	FIRE ALARM CONNECTION TO SPRINKLER TAMPER SWITCH
	REMOTE TEST STATION
	ELECTROMAGNETIC DOOR HOLDER-SHALL RELEASE UPON FIRE ALARM ACTUATION

FIRE ALARM NOTES (REFER TO DRAWING E-104 FOR FURTHER INFORMATION)

GENERAL

A DEVICE TERMINAL CONFIGURATION DIFFER BETWEEN MULTIPLE MANUFACTURERS. QUANTITY & TYPE OF TERMINALS IS INDICATED FOR GENERAL CONCEPT ONLY. VERIFY TERMINAL QUANTITY & TYPE WITH THE ACTUAL MANUFACTURER SELECTED FOR THIS PROJECT.

B DEVICES INDICATED ON THIS DRAWING ARE USED FOR CIRCUITING INTENT ONLY, & ARE NOT TO BE CONSIDERED AS ABSOLUTE QUANTITIES OF EACH KIND DEVICES, TYPES OF DEVICES, & DEVICE LOCATIONS ETC.

C PROVIDE AN END-OF-LINE RELAY, WIRED TO AN INDIVIDUAL ADDRESSABLE MODULE FOR PURPOSE SUPERVISING & MONITORING FOR LOSS OF SYSTEM POWER (24VDC).

D PROVIDE WIRING FROM FACP TO THE ELEVATOR CONTROLLERS VIA 'NC' DRY CONTACTS IN THE CZAM MODULES PROVIDED BY THE FIRE ALARM SYSTEM. FINAL WIRING CONNECTION(S) TO THE ELEVATOR CONTROLLERS SHALL BE PROVIDED BY THE ELEVATOR INSTALLER..

E INSTALL SMOKE DETECTOR(S) A MINIMUM OF 3'-0" AWAY FROM AIR SUPPLY OR RETURN REGISTERS & DIFFUSERS.

IN ACCORDANCE WITH SECTION 907.1.1 OF THE NEW YORK STATE BUILDING CODE, THE INSTALLING FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM CONSTRUCTION DOCUMENTS TO THE LOCAL AUTHORITYY FOR APPROVAL.

TTHE DOCUMENTS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER AND INCLUDE, BUT NOT BE LIMITED TO, ALL OF THE FOLLOWING:

1. FLOOR PLAN AND CEILING PLAN
2. LOCATION OF FA INITIATING DEVICES
3. ALARM CONTROL AND SIGNALING DEVICES
4. ANNUNCIATION
5. BATTERY CALCULATIONS
6. VOLTAGE DROP CALACULATIONS
7. MANUFACTURER, MODEL NUMBERS, MATERIALS, LISTING INFORMATION, ETC.
8. DETAILS SHOWING THE MOUNTING HEIGHTS OF DEVICES
9. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS
10. POWER CONNECTION

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
LP-1 2 1	CIRCUIT HOMERUN, CIRCUIT CONCEALED IN CEILING TO PANEL AND CIRCUIT INDICATED OR WALL. "|" INDICATES NEUTRAL & HOT LEG(S) "•" INDICATES GROUND WIRE.
1 OC	20A, 120V, FLUSH MOUNTED DUPLEX RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION. NUMBER INDICATES CIRCUIT. OC: INDICATES OVER COUNTER (+6") C: INDICATES CEILING MOUNTED B: BULKHEAD MOUNTED D: DEDICATED USB: PROVIDED WITH USB CHARGERS
GFCI	20A, 120V, FLUSH MOUNTED GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION. WP- WEATHERPROOF
	20A, 120V, FLUSH MOUNTED DOUBLE DUPLEX RECEPTACLE, COLOR PER ARCHITECTS DIRECTION.
	20A, 120V, FLUSH MOUNTED DUPLEX RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION, C=CEILING MOUNTED, F=FLOOR MOUNTED
	20A, 120V, FLUSH MOUNTED QUAD RECEPTACLE, COLOR PER ARCHITECT'S DIRECTION, C=CEILING MOUNTED, F=FLOOR MOUNTED
	SPECIAL PURPOSE DUPLEX RECEPTACLE, REFER TO PLANS FOR ELECTRICAL SPECIFICATIONS.
J	JUNCTION BOX - SIZE PER NEC.
D WP	250 VAC HEAVY DUTY DISCONNECT SWITCH, W.P. INDICATES NEMA 3R ENCLOSURE.
	PANELBOARD, REFER TO PANEL SCHEDULES
XFR	TRANSFORMER
	EC TO MAKE COMPLETE 120V CONNECTION TO EQUIPMENT
	EC TO MAKE COMPLETE 208V CONNECTION TO EQUIPMENT
$ IIa,b	TOGGLE SWITCH, 1 POLE, ROMAN NUMERALS INDICATE NO. OF GANGS & SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL
$ 3	3-WAY WALL MOUNTED TOGGLE SWITCH
$ 4	4-WAY WALL MOUNTED TOGGLE SWITCH
$ F	FAN CONTROL SWITCH
$ DIM	DIMMER SWITCH
OS	OCCUPANCY SENSOR
OC	OCCUPANCY SENSOR (CEILING MOUNTED)
TC	PROGRAMMABLE TIME CLOCK
LC	LIGHTING CONTACTOR
HDMI	COMMUNICATIONS SYSTEM OUTLET - CABLING, JACKS AND FACEPLATE BY OTHERS, MOUNT +18" A.F.F. UNLESS OTHERWISE. EC TO PROVIDE DOUBLE GANG BACK BOX AND 3/4" CONDUIT W/BUSHINGS AND PULLSTRING STUBBED INTO ACCESSIBLE CEILING CAVITY. VERIFY FINAL QUANTITIES AND LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. SUBSCRIPT 'C' INDICATES OUTLET SHALL BE LOCATED +6" ABOVE COUNTER BACKSPLASH
AP	WIFI ACCESS POINT TO BE INSTALLED BY OTHER
M	MECHANICAL EQUIPMENT CONNECTION. REFERENCE MECHANICAL EQUIPMENT CONNECTION SCHEDULE, SHEET E-104.
EXIT EXIT	"MESSENGER" PLASTIC LED EXIT SIGN WITH INNOVATIVE DOWNLIGHT, SERIES PDLEX COMPLETE WITH SNC BATTERY FOR 1.5 HRS OF OPERATION, TEST SWITCH, UNIVERSAL SNAP IN CHEVRONS, UNIVERSAL MOUNT, DAMP UL LISTED, 120 VOLTS.
	EMERGENCY LUMINAIRE HIGH IMPACT THERMOPLASTIC, UNIVERSAL MOUNTING, 120/277 VOLT, WHITE FINISH, TEST SWITCH, DAMP UL LISTED, DUAL LITE CV-SERIES. (OR EQUAL)
	EMERGENCY LUMINAIRE HIGH IMPACT THERMOPLASTIC, UNIVERSAL MOUNTING, 120/277 VOLT, WHITE FINISH, TEST SWITCH, DAMP UL LISTED, WITH A MINIMUM OPERATION OF 90 MINUTES OPERATION. CV5-SERIES FOR EMERGENCY LUMINAIRE, OSMDB- TWIN REMOTE WEATHER PROOF HEAD. (OR EQUAL)

GENERAL NOTES (ALL DRAWINGS):

A. CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE SHOWN FOR THE PURPOSE OF CLARIFYING THE GROUPING OF OUTLETS. THE ACTUAL NUMBER ASSIGNED TO THE CIRCUIT IN THE PANELBOARD SHALL SUIT THE BUSSING AND BRANCH CIRCUITING TO THE PANEL. PROVIDE COMPLETE AND ACCURATE TYPEWRITTEN PANEL DIRECTORIES FOR ALL NEW AND EXISTING BRANCH CIRCUIT PANELBOARDS.

B. LOCATIONS INDICATED FOR LIGHT FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH EXISTING AND NEW BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, SMOKE DETECTORS, etc. FIELD COORDINATE THE LOCATIONS AS NEAR AS POSSIBLE TO THOSE INDICATED ON THE PLANS. ALSO REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

C. ALL CIRCUITING SHALL BE CONCEALED (EXCEPT IN ELECTRICAL AND MECHANICAL SPACES). ALL CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED CEILINGS AND CONCEALED IN WALLS UNLESS OTHERWISE INDICATED.

D. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS AND EXIT SIGNS SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE REQUIRED TO BE INSTALLED A MINIMUM OF THREE (3) FEET AWAY FROM SUPPLY OR RETURN AIR GRILLES OR PER SYSTEM MANUFACTURERS INSTALLATION REQUIREMENTS AND NFPA 72.

E. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW OTHER TRADES PROJECT CONTRACT DOCUMENTS TO DETERMINE MOUNTING HEIGHTS FOR ELECTRICAL DEVICES OR EQUIPMENT. THE LOCATIONS FOR MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE EXACT MOUNTING LOCATIONS AND HEIGHTS IN THE FIELD WITH OTHER TRADES PRIOR TO INSTALLATION.

F. E.C. SHALL WIRE EMERGENCY/EXIT LIGHTING INTO CIRCUIT SERVING AREA WHERE DEVICE IS LOCATED, CIRCUIT AHEAD OF LOCAL SWITCHING, OCCUPANCY SENSING AND TIME CLOCK CONTROL.

ABBREVIATIONS

A	AMPERE	IG	ISOLATED GROUND
AC	ALTERNATING CURRENT	J-BOX	JUNCTION BOX
AFCI	ARC-FAULT CIRCUIT-INTERRUPTER	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AFG	ABOVE FINISHED GRADE	M.C.	MECHANICAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
C/W	COMPLETE WITH	P.C.	PLUMBING CONTRACTOR
DC	DIRECT CURRENT	RTU	ROOF TOP UNIT
DIM	DIMMING SWITCH	SPECS	SPECIFICATIONS
E.C.	ELECTRICAL CONTRACTOR	TEL	TELEPHONE
EDF	ELECTRIC DRINKING FOUNTAIN	TYP	TYPICAL
EXIST	EXISTING	V	VOLT
EQUIP	EQUIPMENT	WP	WEATHERPROOF
FA	FIRE ALARM	WH	WATER HEATER
G,GND	GROUND	ø	PHASE
GFCI	GROUND FAULT CIRCUIT INTERUPTER	XFMR	TRANSFORMER
HP	HORSEPOWER		

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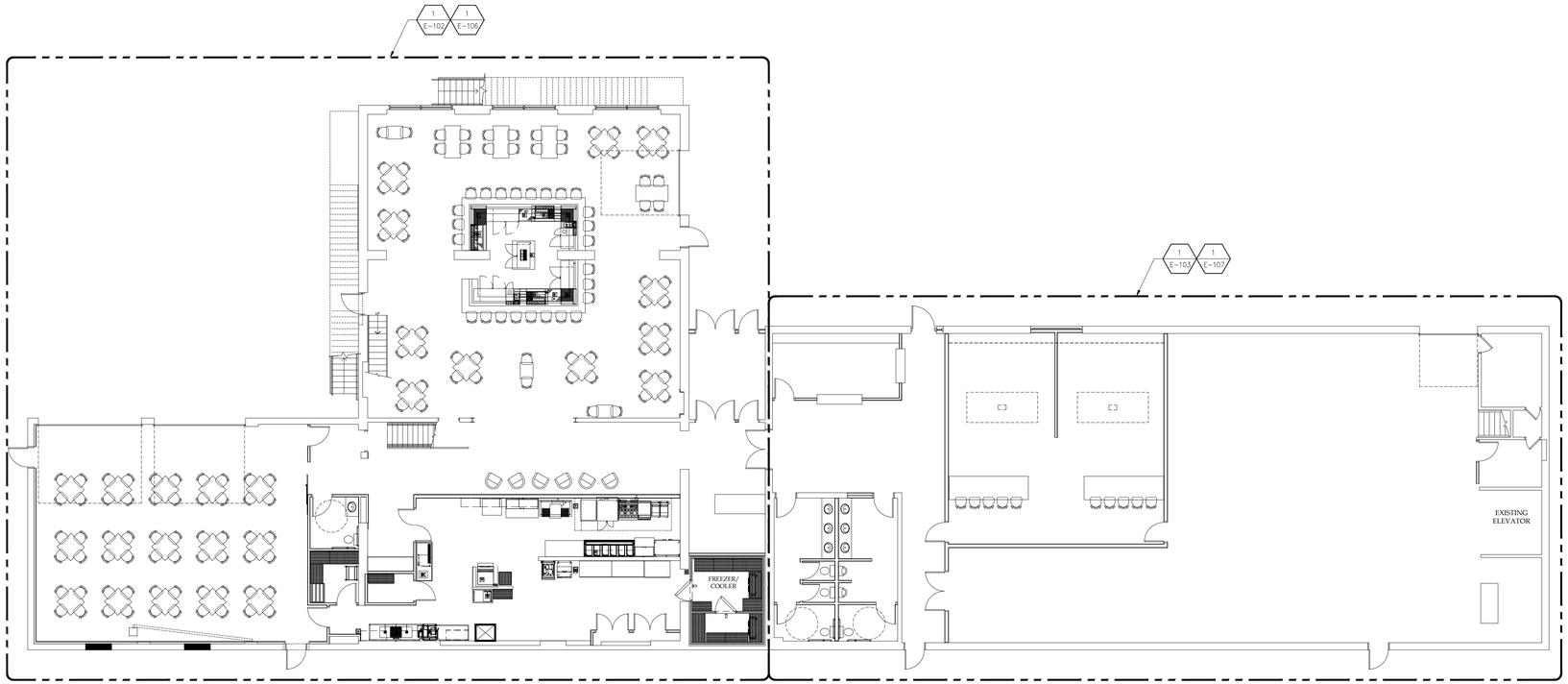
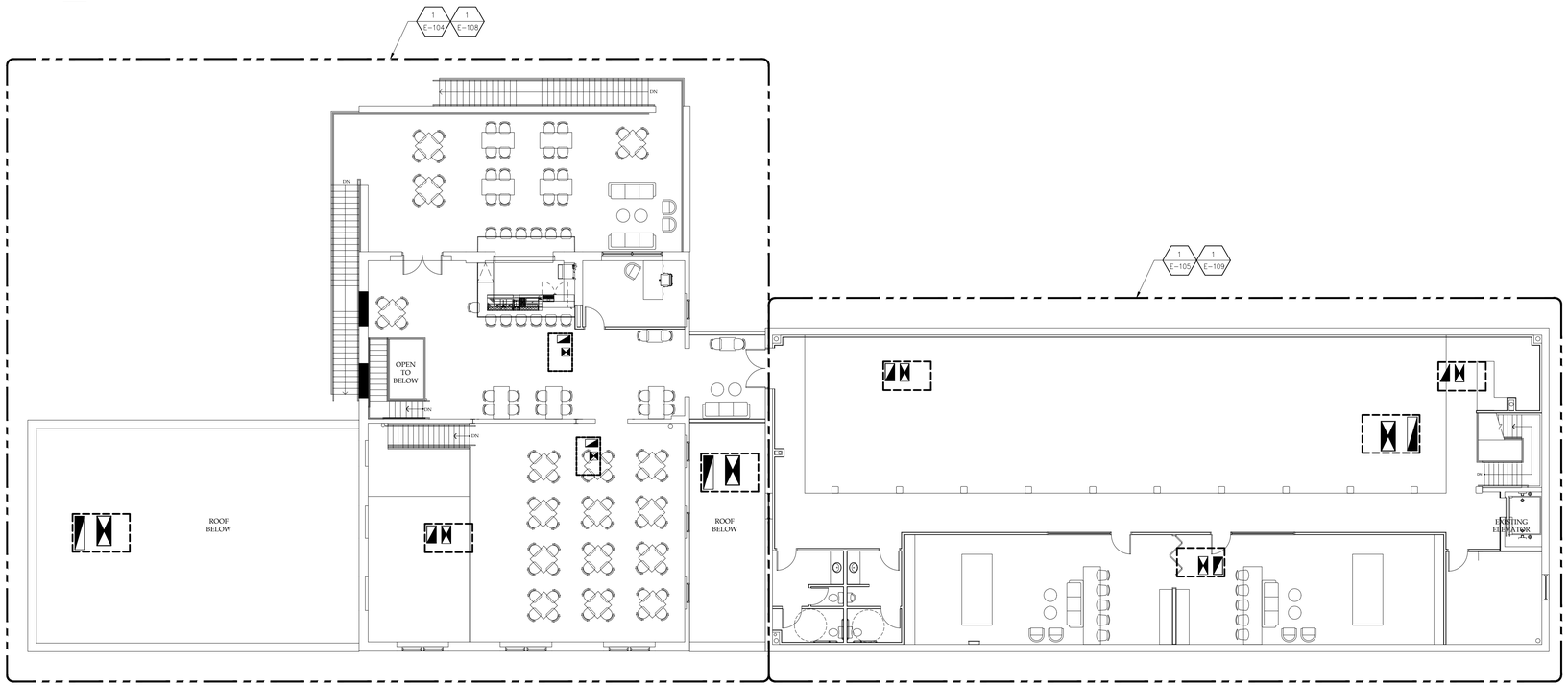
DATE: 1/12/26

DRAWING #: E-100



1 E-101 FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH



2 E-101 SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH

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DRAFTER _____
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TITLE:

ELECTRICAL OVERALL FLOOR PLANS

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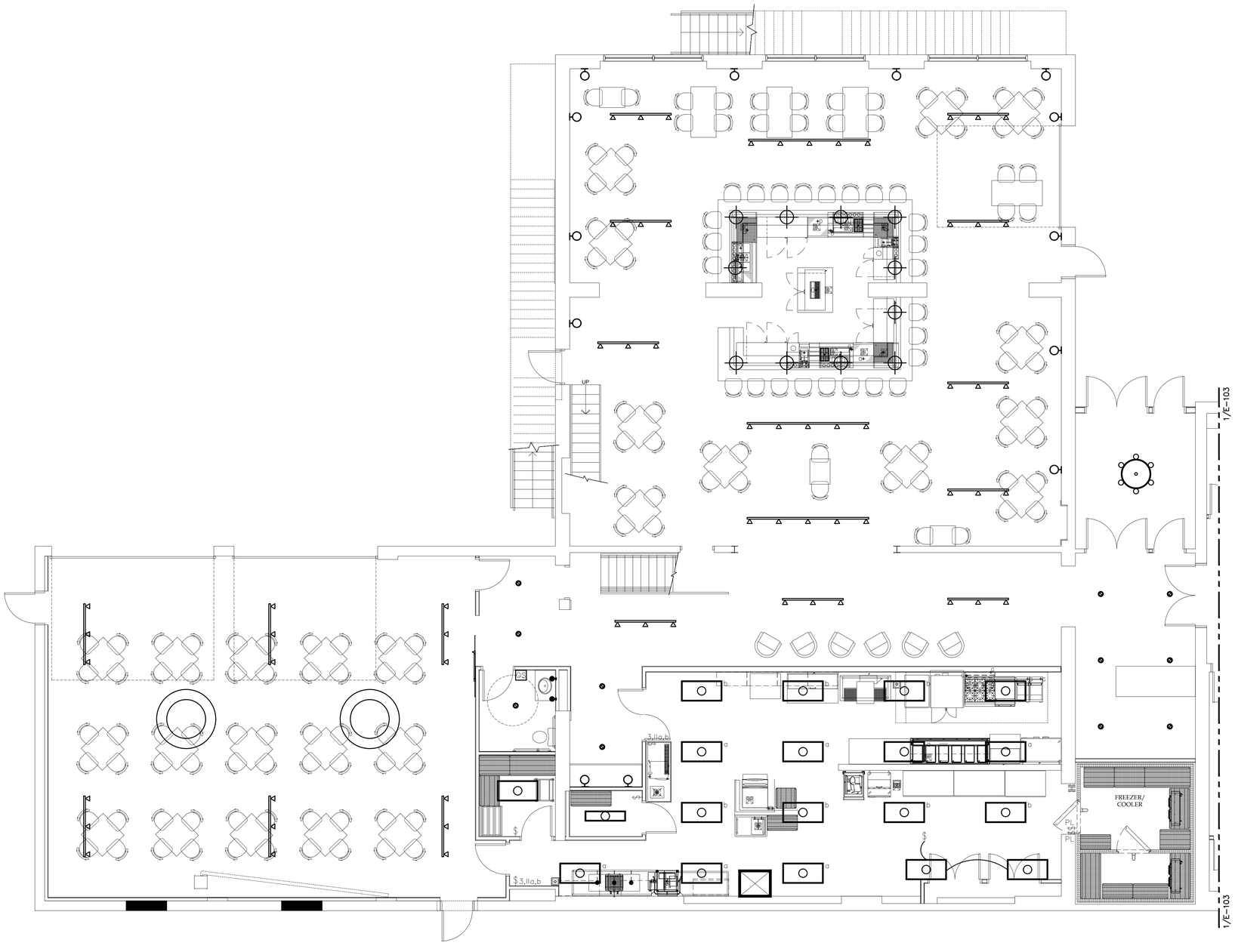

1 E-102 ENLARGED PARTIAL FIRST FLOOR PLAN - LIGHTING
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
ELECTRICAL FLOOR PLAN - LIGHTING

SILVESTRI
ARCHITECTS · PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: E-102

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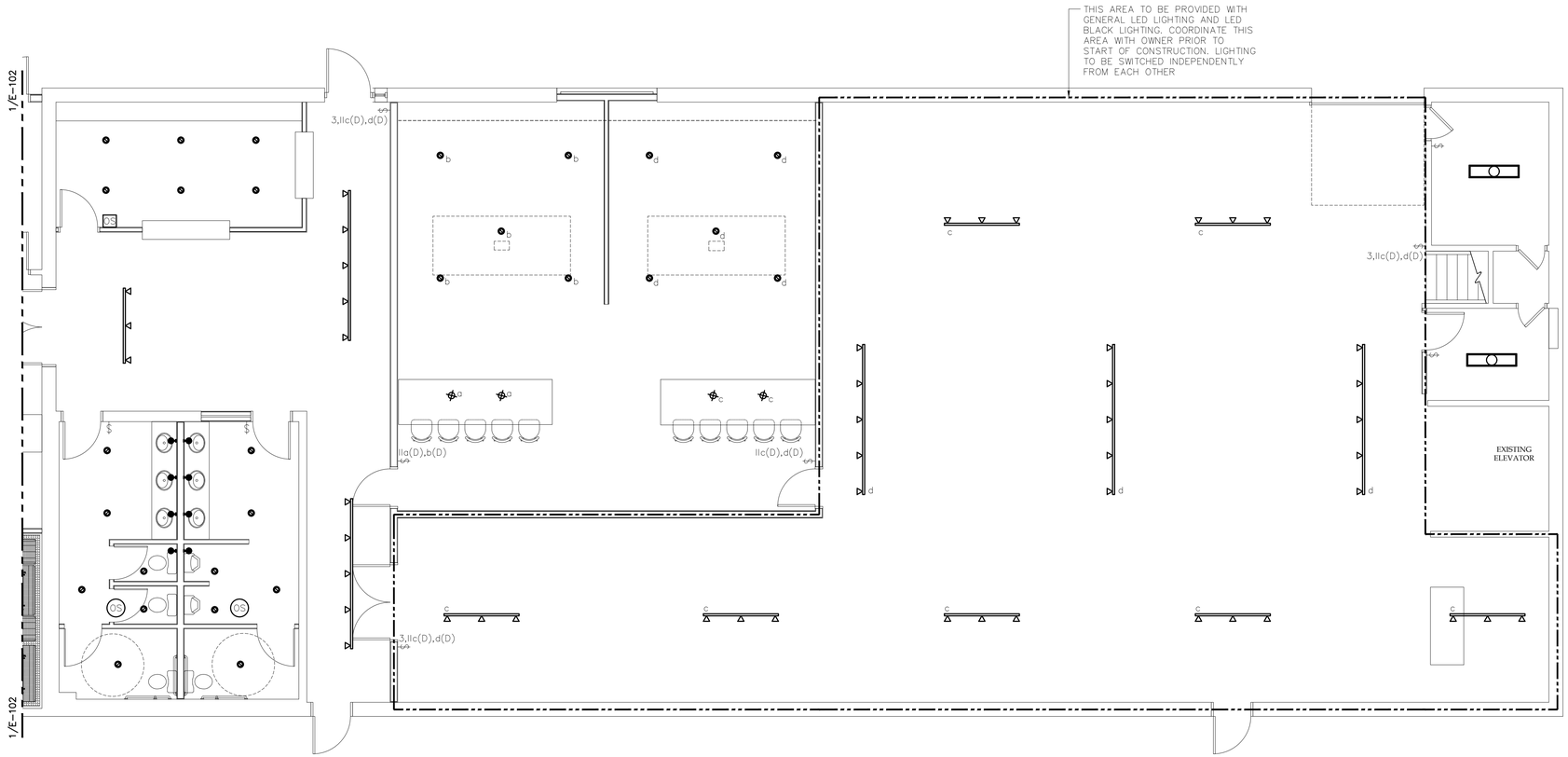
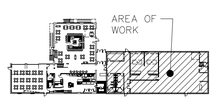
Email: info@kromacdesign.com
Project # 24-11-19



1 E-103 ENLARGED PARTIAL FIRST FLOOR PLAN - LIGHTING

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

NORTH



KEY PLAN

SCALE: NONE

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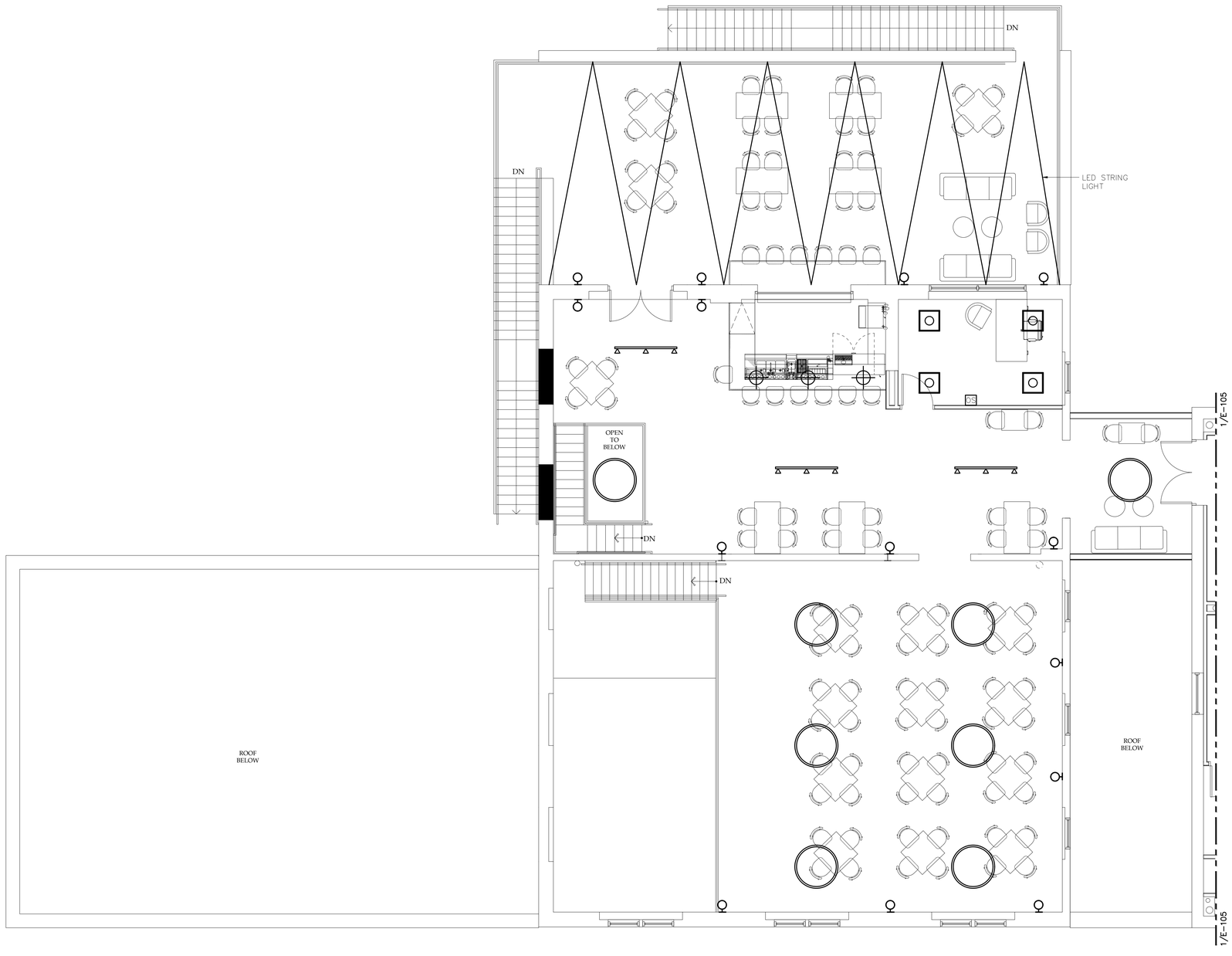

1 E-104 ENLARGED PARTIAL SECOND FLOOR PLAN - LIGHTING

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

NORTH

KEY PLAN

SCALE: NONE

NORTH

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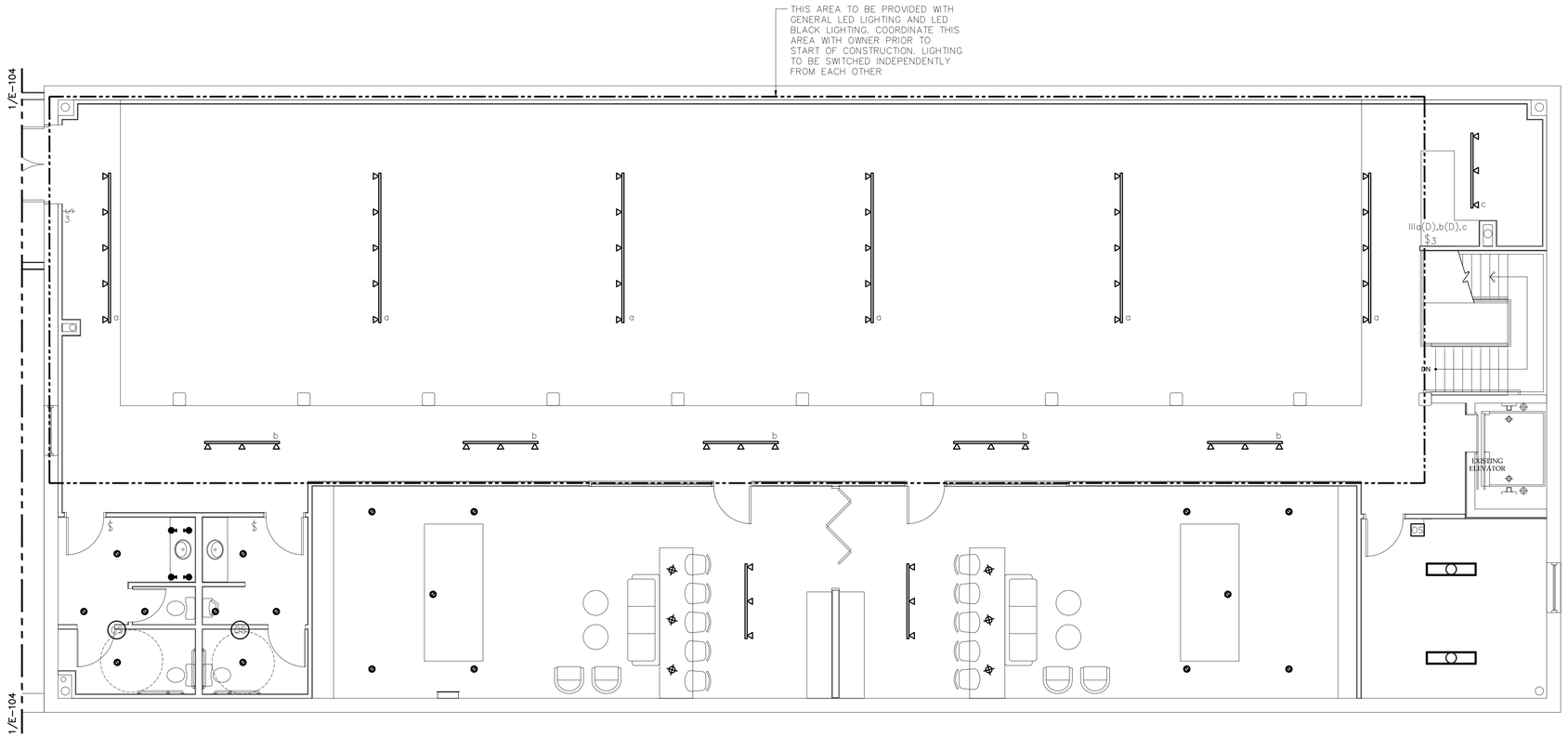

1 E-105 ENLARGED PARTIAL SECOND FLOOR PLAN - LIGHTING

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

NORTH

KEY PLAN

SCALE: NONE

NORTH

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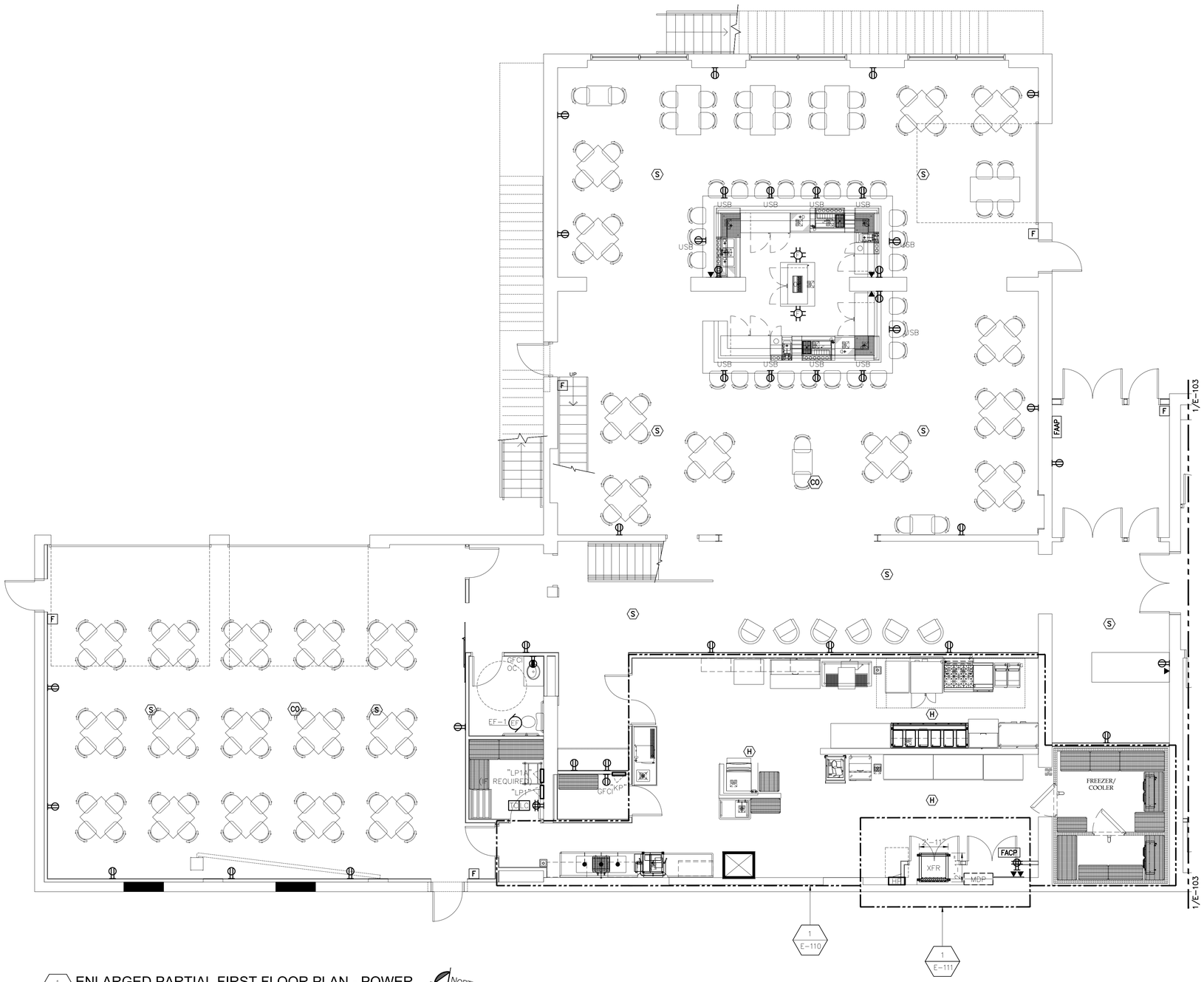


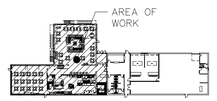
1 E-106 ENLARGED PARTIAL FIRST FLOOR PLAN - POWER

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

NORTH

SINGLE LINE DIAGRAM NOTES:

1. EXISTING ELEVATOR SHALL REMAIN AS IS.
2. PROVIDE (1) 1.5"ø CONDUIT FROM COMPUTER/AV CABINET TO PROJECTOR. PROVIDE (1) 1.5"ø CONDUIT FROM AV CABINET TO TRACKING SYSTEM. PROVIDE (1) 1.5"ø CONDUIT FROM COMPUTER/AV CABINET TO PROJECTOR. PROVIDE (1) 1.5"ø CONDUIT FROM COMPUTER/AV CABINET TO TOUCH SCREEN.



KEY PLAN

SCALE: NONE

NORTH

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DRAFTER _____
JOB CAPT. W. Manhardt
INTERIORS S. Shank

SEAL:

TITLE:
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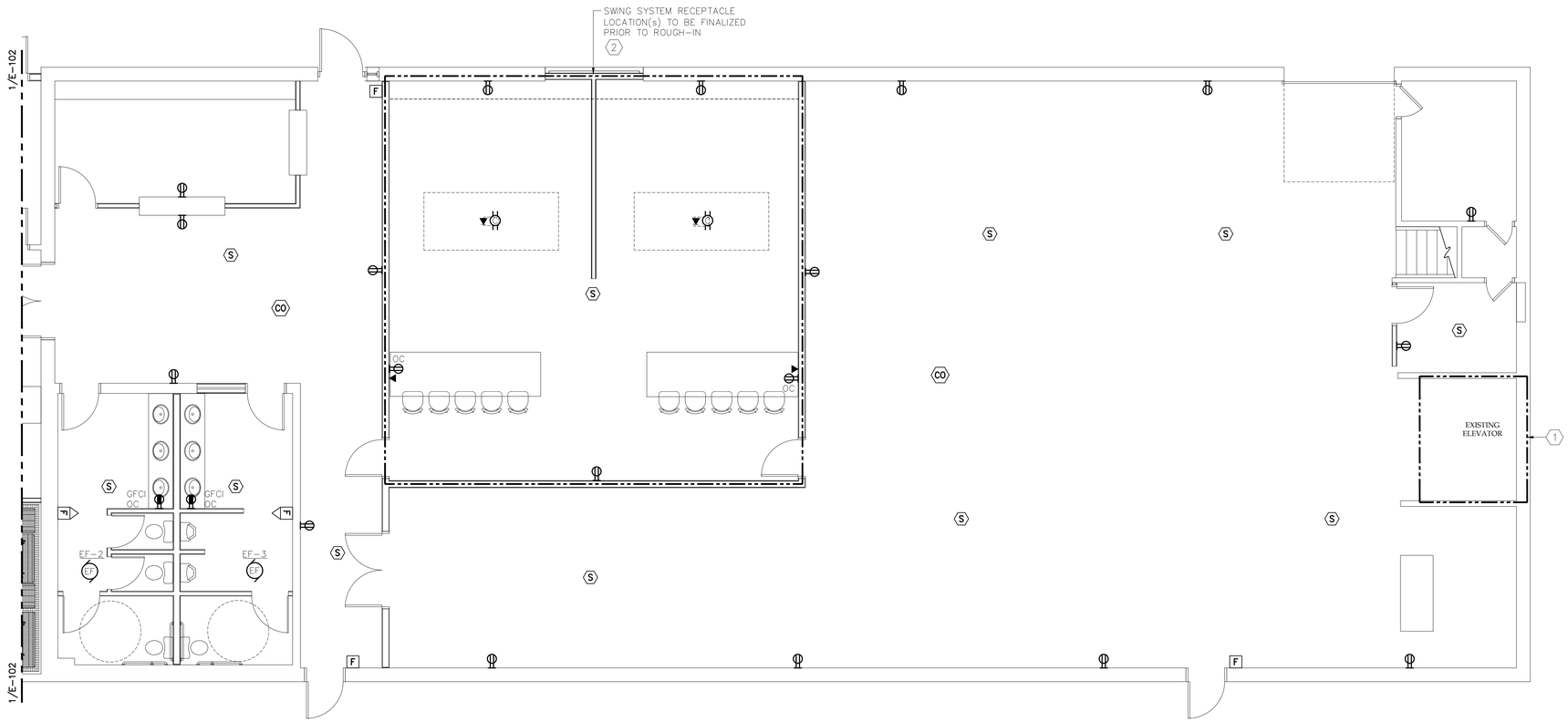
SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: E-106

GENERAL POWER NOTE:

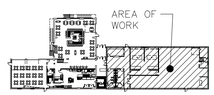
1. REFER TO DRAWING E-106 FOR ALL NOTES PERTAINING TO THIS DRAWING.



1 / E-107 ENLARGED PARTIAL FIRST FLOOR PLAN - POWER

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

NORTH



KEY PLAN

SCALE: NONE

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DRAWING #: E-107

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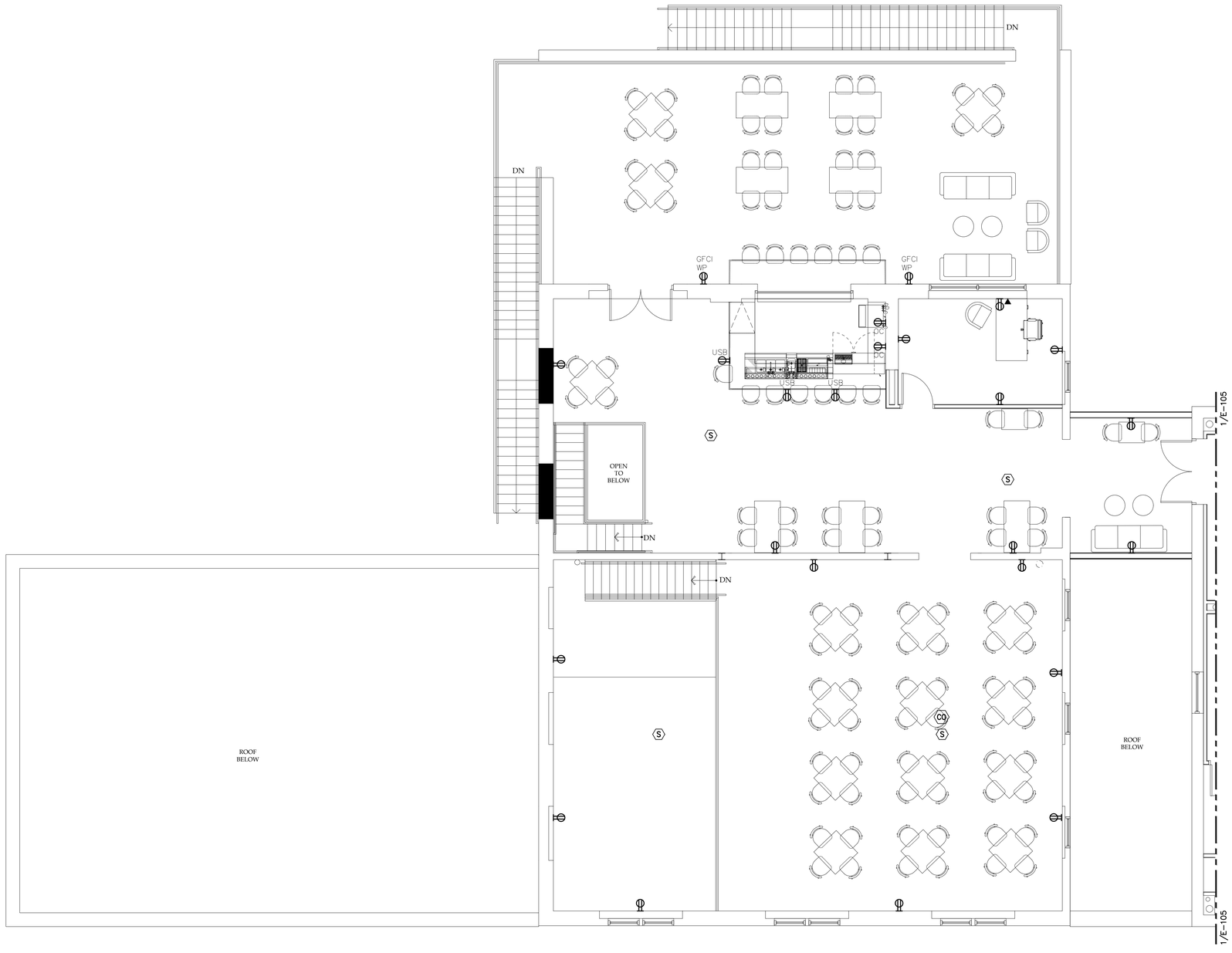
GENERAL POWER NOTE:

1. REFER TO DRAWING E-106 FOR ALL NOTES PERTAINING TO THIS DRAWING.



1 E-108 ENLARGED PARTIAL SECOND FLOOR PLAN - POWER
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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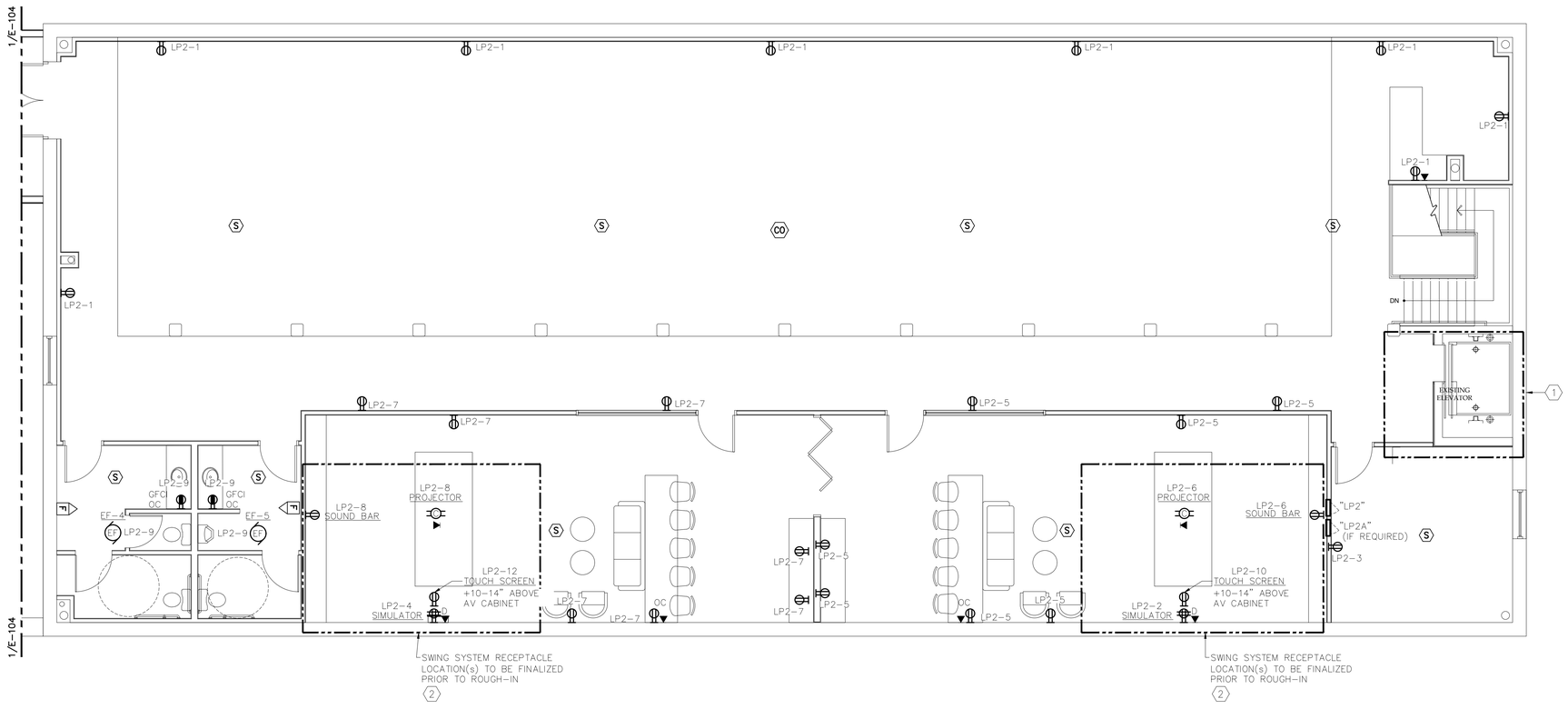
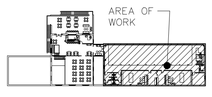


1 E-109 ENLARGED PARTIAL SECOND FLOOR PLAN - POWER

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

NORTH



KEY PLAN

SCALE: NONE

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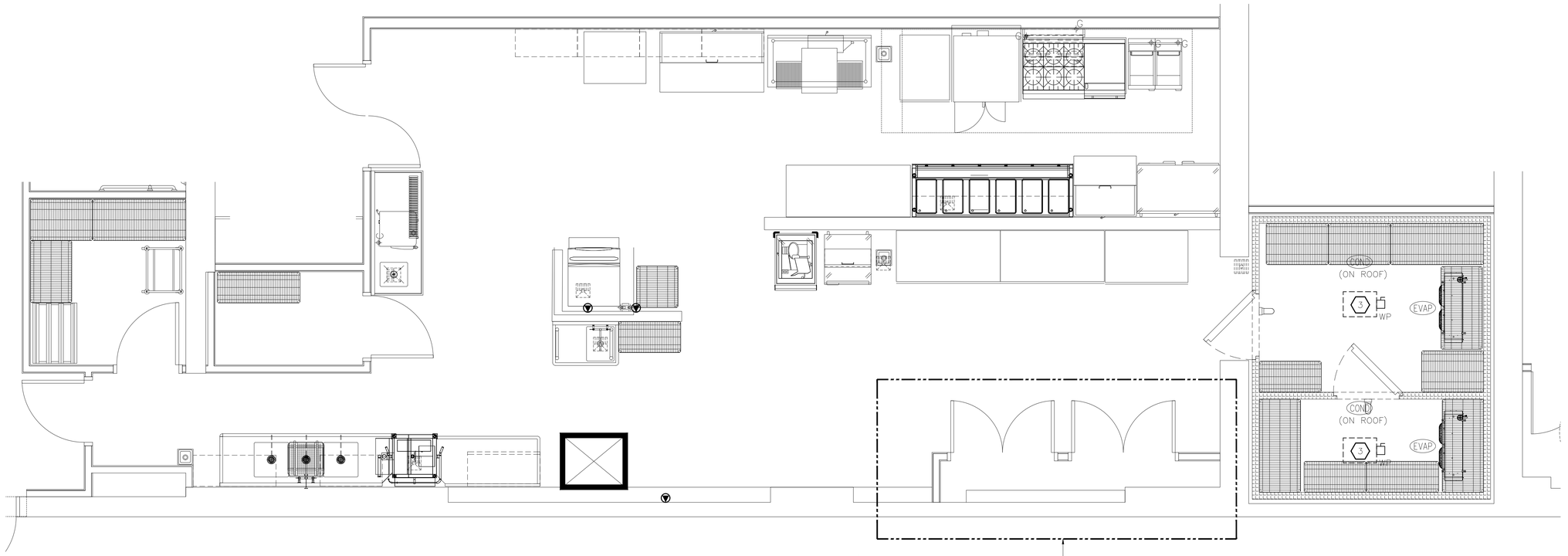

1 E-110 ENLARGED KITCHEN PLAN - POWER SCALE: 3/16" = 1'-0"

NORTH

1 E-106

KITCHEN NOTES - GENERAL:

1. ALL EQUIPMENT RELATED TO KITCHEN SHALL BE FED FROM THE KITCHEN PANEL(KP).

FOOD SERVICE EQUIPMENT SCHEDULE

Item #	Quantity	Unit	Category	Manufacturer	Model	Voltage	Phase	Amps	Cycle	Horsepower	Kilowatts	Connection	NEMA	AFF	Cold Water	Cold Water AFF	Hot Water	Hot Water AFF	Indirect Waste	Sanitary Waste	Sanitary AFF	Natural Gas	Natural Gas AFF	MBTU	REMARKS
First Floor Kitchen																									
1	1	ea	Exhaust Hood	Captiveaire	6024ND-2-PSP-F																				Refer to submittal notes
			Exhaust Fan	Captiveaire	DU180HFA	208	3	8.3	60	2		Direct													Unit located on the roof
			Make-Up Air Unit	Captiveaire	A2-D-500-200	208	3	3.8	60	1		Direct											24"	207.0	Unit located on the roof
2	2	ea	Gas Floor Fryer	Frymaster/Dean	SR152G																	3/4"	18"	120.0	C.O. at 48"
2.1	3	ea	Safety System Movable Gas Connector	Dormont	1675BPCF36																				
3	1	ea	Range, 60", 6 Burners, 24" Griddle/Broiler	Garland Commercial Ranges	G60-6R24RR																	1"	18"	307.0	
3.1	1	ea	Salamander Broiler, Gas	Falcon Food Service Equipment	ASAL-36																	3/4"	48"	30	(2)C.O. at 48"
3.2	1	ea	Safety System Movable Gas Connector	Dormont	1675BPCF36																				
4			Spare Number																						
5			Spare Number																						
6			Spare Number																						
7	1	ea	Convection Oven, Gas	Garland Commercial Ranges	MCO-GS-10-S	120	1	9.8	60	3/4		Cord & Plug	5-15P	48"								3/4"	48"	60.0	C.O. at 48"
7.1	1	ea	Safety System Movable Gas Connector	Dormont	1675BPCF36																				
8	1	ea	Work Table, 60"W	Falcon Food Service Equipment	WT-3060-SSU-4																				(2)C.O. at 48"
9	1	ea	Conveyor Oven, Electric	Lincoln	V2500-A1346	208/240	1	27	60		6	Cord & Plug	NEMA 6-50P	48"											
10	1	ea	Mega Top Sandwich / Salad Preparation Refrigerator	Falcon Food Service Equipment	AST-60M	115	1	7.8	60	1/4		Cord & Plug	5-15P	18"											(2)C.O. at 48"
11	1	ea	Work Table, 72"W	Falcon Food Service Equipment	WT3072SSU4-16																				(3)C.O. at 48"
12	4	ea	Shelving, Wall Mounted	John Boos	BHS1836-16/304																				
13	1	ea	WorkTop Freezer	Falcon Food Service Equipment	AWT-48F	115	1	4.5	60	1/4		Cord & Plug	5-15P	18"											C.O. at 48"
14	1	ea	Mega Top Sandwich / Salad Preparation Refrigerator	Falcon Food Service Equipment	AST-36M	115	1	4.8	60	1/5		Cord & Plug	5-15P	18"											C.O. at 48"
15	1	ea	Hot Food Serving Counter / Table	Advance Tabco	HF-6E-240-BS	208-240	1		60			Cord & Plug	L6-30P	18"						2"					Branch to F.S.
16			Spare Number																						
17	1	ea	Sandwich / Salad Preparation Refrigerator	Falcon Food Service Equipment	AST-27	115	1	5.3	60	1/5		Cord & Plug	5-15P	18"											C.O. at 48"
18	2	ea	Refrigerated Work Top	Falcon Food Service Equipment	AWT-60	115	1	2.9	60	1/5		Cord & Plug	5-15P	18"											(4)C.O. at 48"
19	1	ea	One (1) Compartment Sink	Falcon Food Service Equipment	HD1C-18X18-L-18															2"					Branch to F.S.
19.1	1	ea	Pre-Rinse Faucet Assembly, with Add On Faucet	T&S Brass	SPR-BW12										1/2"	18"	1/2"	18"							
20			Spare Number																						
21			Spare Number																						
22	1	ea	Equipment Stand, for Mixer / Slicer	Advance Tabco	AG-MP-30																				C.O. at 45°
23	1	ea	Meat Slicer	Eurodib USA	HBS300L	120	1	2.3	60	1/3	.25	Cord & Plug	5-15P	48"											
24	1	ea	Cabinet, Cook / Hold / Oven	Cres cor	C151SFUA1D3E208S	240	1	50	60		8	Cord & Plug	6-50P	48"											
25			Spare Number																						
26	1	ea	Can Rack	Channel	CSR-96M																				C.O. at 18"
27	1	ea	Bun / Sheet Pan Rack	John Boos	ABPR-1820-RKD-X																				
28	1	ea	Dishtable, with Potsinks	BK Resources	BKSDT-3-2O-12-20RSPG										1/2"	18"	1/2"	18"		2"	18"				
29	1	ea	Hand Sink	Falcon Food Service Equipment	HS-1TSS										1/2"	18"	1/2"	18"		2"	18"				
30	1	ea	Work Table, Stainless Steel Top	BK Resources	CVT-3630																				(2)C.O. at 48"
31	1	ea	Dishwasher, Door Type, Ventless	CMA Dishmachines	180-VL TALL	208	3	49.0	60	1	12.0	Direct			1/2"	18"	1/2"	64"	2"						Branch to F.S.
32	1	kt	Shelving Unit, Wire	Quantum	WR74-1848P-5																				(2)C.O. at 18"
33			Spare Number																						
34			Spare Number																						
35			Spare Number																						
36			Spare Number																						
37	1	kt	Shelving Unit, Wire	Quantum	WR74-2424P-5																				(2)C.O. at 18"
38	1	ea	Ice Maker, Cube-Style	Manitowoc	IYT0500A	115	1	11.5	60			Direct			3/8"	48"			1/2"						Branch to F.S.
	1	ea	Ice Bin for Ice Machines	Manitowoc	D570														3/4"						Branch to F.S.
39	1	ea	Beverage Counter	Advance Tabco	BEV-30-72L-GR										1/2"	18"	1/2"	18"	1-1/2						C.O. at 48". Branch to F.S.
40	1	ea	Coffee Brewer	BUNN	38700.0014	120/208-240	1		60			Direct			3/8"	48"									
41	1	kt	Shelving Unit, Wire	Quantum	WR74-1836P																				(3)C.O. at 48"
42	1	ea	Work Table, Cabinet Base Sliding Doors	BK Resources	CSTR5-3048S																				
43	1	ea	Walk-in Cooler & Freezer	AmeriKooler																					Refer to submittals
			Cooler Evaporator	AmeriKooler	BEL0070B54EEAB0200	208-230	1	1	60	1		Direct													Refer to submittals
			Cooler Condensing Unit	AmeriKooler	BCH0025LBACZA0000	208-230	1	37.5	60	3		Direct													Refer to submittals
			Cooler Lights	AmeriKooler		120	1		60			Direct													Refer to submittals
			Freezer Evaporator	AmeriKooler	BEL0095A5SAMAB0200	115	1	1.8	60			Direct													Refer to submittals
			Freezer Condensing Unit	AmeriKooler	BCH0009MBACZA0000	208-230	1	15	60	0.75		Direct													Refer to submittals
			Freezer Lights	AmeriKooler		120	1		60			Direct													Refer to submittals
44	1	kt	Shelving Unit, Wire	Quantum	WR74-2448P																				C.O. at 18"
45	3	kt	Shelving Unit, Wire	Quantum	WR74-2436P																				(3)C.O. at 18"
46	2	kt	Shelving Unit, Wire	Quantum	WR74-2436P																				C.O. at 18"
47	4	kt	Shelving Unit, Wire	Quantum	WR74-2454P																				(5)C.O. at 18"
48	1	kt	Shelving Unit, Wire	Quantum	WR74-1842P																				C.O. at 18"
49	1	kt	Shelving Unit, Wire	Quantum	WR74-1836P																				C.O. at 18"
50	1	kt	Shelving Unit, Wire	Quantum	WR86-1836P																				(2)C.O. at 18"
51	1	ea	Shelving, Wall Mounted	Falcon Food Service Equipment	WS1848-HD																				
52	1	ea	Shelving, Wall Mounted	Falcon Food Service Equipment	WS1836-HD																				
First Floor Bar																									
B01	1	ea	Underbar Sink Units	Glastender	TSA-48L-S										3/8"	18"	3/8"	18"	(3) 1-1/2"						Branch to F.S.
B02	1	ea	Corner Angle Filler	Glastender	CR-24/30R														1/2"						Branch to F.S.
B03	2	ea	Back Bar Cabinet, Refrigerated	Glastender	C1FB60	120	1	3.5	60	1/6		Cord & Plug	5-15P	18"											C.O. at 18"
B04	2	ea	Glass Rack	Glastender	DBGR-24														1/2"						Branch to F.S.
B05	2	ea	Ice Bin with Bottle Wells	Glastender	CBA-36R/CP10														3/4"						Branch to F.S.
B06	2	ea	Bottle Storage Unit	Glastender	LDA-12S																				
B07	2	ea	Corner Angle Filler	Glastender	CR-24/24														1/2"						Branch to F.S.
B08	2	ea	Underbar Sink Units	Glastender	FS12										3/8"	18"	3/8"	18"		1-1/2"	18"				
B09	2	ea	Underbar Add-On Unit	Glastender	DWB-14-C																				
B10	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1SB24	120	1	2.75	60	1/8		Cord & Plug	5-15P	18"											
B11	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1FB52	120	1	3.5	60	1/6		Cord & Plug	5-15P	18"											C.O. at 18"
B12	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1SB36	120	1	2.75	60	1/8		Cord & Plug	5-15P	18"											C.O. at 18"
B13	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1SB48	120	1	2.75	60	1/8		Cord & Plug	5-15P	18"											
	1	ea	Draft Beer / Wine Dispensing Tower	Glastender	BT-6-SS														1/2"						Branch to F.S.
Second Floor Bar																									
RT1	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1FB60	120	1	3.5	60	1/6		Cord & Plug	5-15P	18"											C.O. at 18"
RT2	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	IDFP240A	115	1	7	60			Cord & Plug	5-15P	18"	3/8"	18"			1/2"						Branch to F.S.
RT3	1	ea	Ice Bin with Bottle Wells	Glastender	C-CBA-36R-CP10														3/4"						Branch to F.S.
RT4	1	ea	Underbar Sink Units	Glastender	FS12										3/8"	18"	3/8"	18"		1-1/2"	18"				
RT5	1	ea	Underbar Sink Units	Glastender	C-TSA-48R										3/8"	18"	3/8"	18"	(3) 1-1/2"						Branch to F.S.

KROMAC Design Inc.
MECHANICAL-ELECTRICAL ENGINEERING
10225 Main Street, Victoria Park, Suite 10B
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Project # 24-11-19

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Buffalo Puttz
201 Ganson Street,
Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

NOT FOR CONSTRUCTION

SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. W. Manhardt
PRINCIPAL P. Silvestri
DRAFTER _____
INTERIORS S. Shank

SEAL:

TITLE:
ENLARGED KITCHEN PLAN - POWER

SILVESTRI
ARCHITECTS · PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: E-110

CONDUIT AND CONDUCTOR SCHEDULE

C.B.	POLES	WIRE SIZE (TYPE THW)	CONDUIT	PHASE
20A	1	2-#12, 1-#12 E.G.	3/4"	1Ø 2W
	2	2-#12, 1-#12 E.G.		1Ø 2W
	3	3-#12, 1-#12 E.G.		3Ø 3W
	3	3-#12, 1-#12 N., 1-#12 E.G.		3Ø 4W
25A	1	2-#10, 1-#10 E.G.	3/4"	1Ø 2W
	2	2-#10, 1-#10 E.G.		1Ø 2W
	3	3-#10, 1-#10 E.G.		3Ø 3W
	3	3-#10, 1-#10 N., 1-#10 E.G.		3Ø 4W
30A	1	2-#10, 1-#10 E.G.	3/4"	1Ø 2W
	2	2-#10, 1-#10 E.G.		1Ø 2W
	3	3-#10, 1-#10 E.G.		3Ø 3W
	3	3-#10, 1-#10 N., 1-#10 E.G.		3Ø 4W
35A	3	3-#8, 1-#10 E.G.	1"	3Ø 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3Ø 4W
40A	2	2-#8, 1-#10 E.G.	1"	1Ø 2W
	3	3-#8, 1-#10 E.G.		3Ø 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3Ø 4W
45A	2	2-#8, 1-#10 E.G.	1"	1Ø 2W
	3	3-#8, 1-#10 E.G.		3Ø 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3Ø 4W
50A	2	2-#8, 1-#10 E.G.	1"	1Ø 2W
	3	3-#8, 1-#10 E.G.		3Ø 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3Ø 4W
60A	2	2-#6, 1-#10 E.G.	1"	1Ø 2W
	3	3-#6, 1-#10 E.G.		3Ø 3W
	3	3-#6, 1-#6 N., 1-#10 E.G.	1 1/4"	3Ø 4W
70A	2	2-#4, 1-#8 E.G.	1"	1Ø 2W
	3	3-#4, 1-#8 E.G.	1 1/4"	3Ø 3W
	3	3-#4, 1-#4 N., 1-#8 E.G.		3Ø 4W
80A	2	2-#4, 1-#8 E.G.	1"	1Ø 2W
	3	3-#4, 1-#8 E.G.	1 1/4"	3Ø 3W
	3	3-#4, 1-#4 N., 1-#8 E.G.		3Ø 4W
90A	2	2-#3, 1-#8 E.G.	1 1/4"	1Ø 2W
	3	3-#3, 1-#8 E.G.		3Ø 3W
	3	3-#3, 1-#3 N., 1-#8 E.G.		3Ø 4W
100A	2	2-#3, 1-#8 E.G.	1 1/4"	1Ø 2W
	3	3-#3, 1-#8 E.G.		3Ø 3W
	3	3-#3, 1-#3 N., 1-#8 E.G.		3Ø 4W

NOTES:
1. ALL CONDUCTORS SHALL BE COPPER.
2. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR INSTALLED.
3. CONDUIT BELOW GRADE OUTSIDE OF BUILDING SHALL BE 1" MINIMUM.
4. SIZING OF CONDUCTORS SHALL BE ALTERED FOR DERATING PER N.E.C. OR VOLTAGE DROP CONSIDERATIONS.
5. SEE RISER DIAGRAM FOR SIZING OF CIRCUITS GREATER THAN 100A.
6. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, EQUIPMENT GROUND SHALL BE INCREASED PROPORTIONATELY PER NEC 250.122 (B).
7. WHERE MC CABLE IS ALLOWED BY THE AUTHORITY HAVING JURISDICTION, THE CONDUCTORS FOR MC CABLE SHALL BE THHN. JACKET SHALL BE THE MANUFACTURER'S STANDARD SIZE FOR CONDUCTORS UTILIZED.

FEEDER SIZE SCHEDULE

#	COPPER CONDUCTORS * (3ø–4 WIRE WITH GROUND)	COUNDUIT SIZE
1	4#350 & (1) #4GND (Cu)	3"ø
2	2 SETS @ 4#350 & (1) #1GND (Cu)	2 SETS @ 3"ø
3	4#600 & (1) #3GND (Cu)	4"ø
4	4#4/0 & (1) #4GND (Cu)	3"

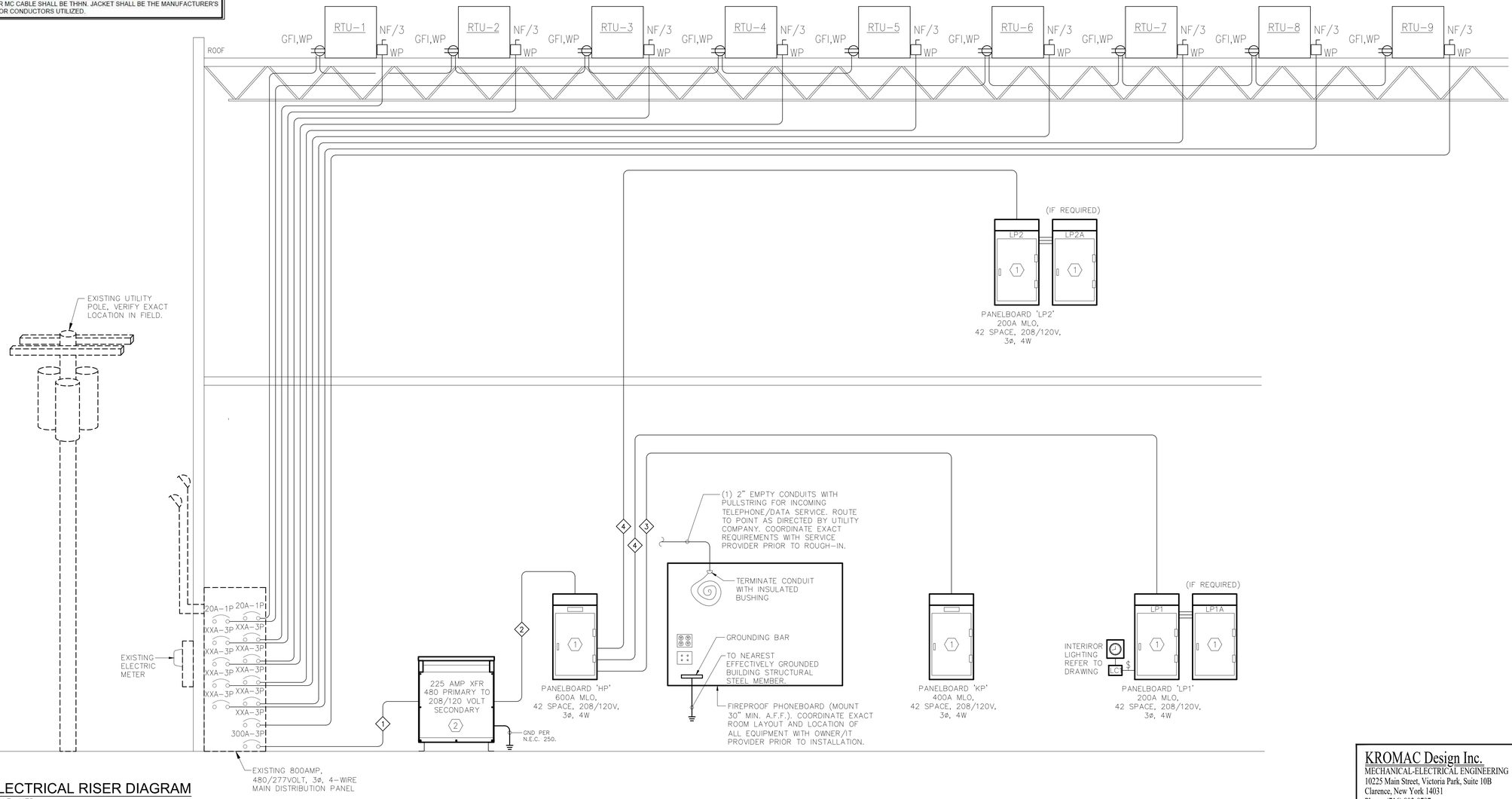
* PROVIDE AN ALTERNATE FOR ALUMINUM FEEDERS

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT FROM LOCAL UTILITY PRIOR TO COMMENCING WORK AND PROVIDE A LETTER FROM THE UTILITY TO THE LOCAL ELECTRIC INSPECTOR STATING THE AVAILABLE FAULT CURRENT. ALL EQUIPMENT SHALL MATCH THE REQUIRED AIC RATINGS
- ALL ELECTRICAL WIRING AND GROUNDING TO CONFORM WITH THE LATEST ADOPTED NEC (2017).
- CONTRACTOR TO VERIFY EXACT LOADS WITH EQUIPMENT PURCHASED. VERIFY EXACT BREAKER AND FEEDER SIZES. SERVING ELECTRICAL PANELS.
- E.C. SHALL VERIFY "HOT" OR "COLD" METERING SEQUENCE WITH LOCAL UTILITY COMPANY PRIOR TO INSTALLATION.

(#) SINGLE LINE DIAGRAM NOTES:

1. REFER TO PANELBOARD SCHEDULES ON DRAWING E–112 FOR ADDITIONAL INFORMATION.
2. PROVIDE A 480 VOLT PRIMARY TO 208/120 VOLT, 3 PHASE, 4 WIRE 225 KVA FLOOR MOUNTED TRANSFORMER. GROUND TRANSFORMER PER N.E.C. ARTICLE 250.



1 E–111 ELECTRICAL RISER DIAGRAM
SCALE: NTS

KROMAC Design Inc.
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ISSUE:
1/12/26 75% BID SET

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
ELECTRICAL RISER DIAGRAM

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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: E-111

PANEL "HP"

P — MOUNTING: FLUSH — 277 / 480 VOLTS — 3 Ø — 4 WIRE — A.I.C. RATING: 14,000 — MAIN: MLO — BUS: 600A

DESCRIPTION	WIRE & CONDUIT SIZE	EQ. NUM.	WATTS ØA	WATTS ØB	WATTS ØC	LIGHTS	KIT/BAR	REC/SPR	MISC	BRKR	CIRCUIT		CIRCUIT	BRKR	MISC	REC/SPR	KIT/BAR	LIGHTS	WATTS ØA	WATTS ØB	WATTS ØC	WIRE & CONDUIT SIZE	EQ. NUM.	DESCRIPTION
											1		2											
											3		4											
											5		6											
											7		8											
											9		10											
											11		12											
											13		14											
											15		16											
											17		18											
											19		20											
											21		22											
											23		24											
											25		26											
											27		28											
											29		30											
											31		32											
											33		34											
											35		36											
											37		38											
											39		40											
											41		42											

TOTAL WATTS ØA= 0
TOTAL WATTS ØB= 0
TOTAL WATTS ØC= 0
TOTAL LOAD (WATTS)= 0
TOTAL AMPS = 0.0

PANEL LOAD ANALYSIS

ITEM	LOAD	DIVERSITY	DEMAND
LIGHTING	0.00 KW	125 %	0.00 KW
KITCHEN / BAR	0.00 KW	65 %	0.00 KW
RECEPT/SPARES	0.00 KW	0.00 @ 100% 0.00 @ 50%	0.00 KW
MISCELLANEOUS	0.00 KW	100 %	0.00 KW
TOTAL	0.00 KW		0.00 KW

FEED THRU LUGS

PANEL "LP2"

MOUNTING: SURFACE — 120 / 208 VOLTS — 3 Ø — 4 WIRE — A.I.C. RATING: 10,000 — MAIN: 200A — BUS: 200A

DESCRIPTION	WIRE & CONDUIT SIZE	EQ. NUM.	WATTS ØA	WATTS ØB	WATTS ØC	LIGHTS	KITCHEN	REC/SPR	MISC	BRKR	CIRCUIT		CIRCUIT	BRKR	MISC	REC/SPR	KITCHEN	LIGHTS	WATTS ØA	WATTS ØB	WATTS ØC	WIRE & CONDUIT SIZE	EQ. NUM.	DESCRIPTION
RECEPTACLES			1440					X		20/1	1		2	20/1		X								SIMULATOR
RECEPTACLES				180				X		20/1	3		4	20/1		X								SIMULATOR
RECEPTACLES					1260					20/1	5		6	20/1		X								PROJECTOR
RECEPTACLES			1260							20/1	7		8	20/1		X								PROJECTOR
RESTROOMS											9		10	20/1		X								TOUCH SCREEN
SPACE											11		12	20/1		X								TOUCH SCREEN
SPACE											13		14											SPACE
SPACE											15		16											SPACE
SPACE											17		18											SPACE
SPACE											19		20											SPACE
SPACE											21		22											SPACE
SPACE											23		24											SPACE
SPACE											25		26											SPACE
SPACE											27		28											SPACE
SPACE											29		30											SPACE
SPACE											31		32											SPACE
SPACE											33		34											SPACE
SPACE											35		36											SPACE
SPACE											37		38											SPACE
SPACE											39		40											SPACE
SPACE											41		42											SPACE

TOTAL WATTS ØA= 2,700
TOTAL WATTS ØB= 180
TOTAL WATTS ØC= 1,260
TOTAL LOAD (WATTS)= 4,140
TOTAL AMPS = 11.50

PANEL LOAD ANALYSIS

ITEM	LOAD	DIVERSITY	DEMAND
LIGHTING	0.00 KW	125 %	0.00 KW
KITCHEN	0.00 KW	65 %	0.00 KW
RECEPT/SPARES	1.62 KW	100 %	1.62 KW
MISCELLANEOUS	0.00 KW	100 %	0.00 KW
TOTAL	1.62 KW		1.62 KW

PANEL "LP2A"

MOUNTING: SURFACE — 120 / 208 VOLTS — 3 Ø — 4 WIRE — A.I.C. RATING: 10,000 — MAIN: 200A — BUS: 200A

DESCRIPTION	WIRE & CONDUIT SIZE	EQ. NUM.	WATTS ØA	WATTS ØB	WATTS ØC	LIGHTS	KITCHEN	REC/SPR	MISC	BRKR	CIRCUIT		CIRCUIT	BRKR	MISC	REC/SPR	KITCHEN	LIGHTS	WATTS ØA	WATTS ØB	WATTS ØC	WIRE & CONDUIT SIZE	EQ. NUM.	DESCRIPTION
SPACE											1		2											SPACE
SPACE											3		4											SPACE
SPACE											5		6											SPACE
SPACE											7		8											SPACE
SPACE											9		10											SPACE
SPACE											11		12											SPACE
SPACE											13		14											SPACE
SPACE											15		16											SPACE
SPACE											17		18											SPACE
SPACE											19		20											SPACE
SPACE											21		22											SPACE
SPACE											23		24											SPACE
SPACE											25		26											SPACE
SPACE											27		28											SPACE
SPACE											29		30											SPACE
SPACE											31		32											SPACE
SPACE											33		34											SPACE
SPACE											35		36											SPACE
SPACE											37		38											SPACE
SPACE											39		40											SPACE
SPACE											41		42											SPACE

TOTAL WATTS ØA= 0
TOTAL WATTS ØB= 0
TOTAL WATTS ØC= 0
TOTAL LOAD (WATTS)= 0
TOTAL AMPS = 0.00

PANEL LOAD ANALYSIS

ITEM	LOAD	DIVERSITY	DEMAND
LIGHTING	0.00 KW	125 %	0.00 KW
KITCHEN	0.00 KW	65 %	0.00 KW
RECEPT/SPARES	0.00 KW	100 %	0.00 KW
MISCELLANEOUS	0.00 KW	100 %	0.00 KW
TOTAL	0.00 KW		0.00 KW

FEED THRU LUGS

PANEL "LP1A"

MOUNTING: SURFACE — 120 / 208 VOLTS — 3 Ø — 4 WIRE — A.I.C. RATING: 10,000 — MAIN: 200A — BUS: 200A

DESCRIPTION	WIRE & CONDUIT SIZE	EQ. NUM.	WATTS ØA	WATTS ØB	WATTS ØC	LIGHTS	KITCHEN	REC/SPR	MISC	BRKR	CIRCUIT		CIRCUIT	BRKR	MISC	REC/SPR	KITCHEN	LIGHTS	WATTS ØA	WATTS ØB	WATTS ØC	WIRE & CONDUIT SIZE	EQ. NUM.	DESCRIPTION
SPACE											1		2											SPACE
SPACE											3		4											SPACE
SPACE											5		6											SPACE
SPACE											7		8											SPACE
SPACE											9		10											SPACE
SPACE											11		12											SPACE
SPACE											13		14											SPACE
SPACE											15		16											SPACE
SPACE											17		18											SPACE
SPACE											19		20											SPACE
SPACE											21		22											SPACE
SPACE											23		24											SPACE
SPACE											25		26											SPACE
SPACE											27		28											SPACE
SPACE											29		30											SPACE
SPACE											31		32											SPACE
SPACE											33		34											SPACE
SPACE											35		36											SPACE
SPACE											37		38											SPACE
SPACE											39		40											SPACE
SPACE											41		42											SPACE

TOTAL WATTS ØA= 0
TOTAL WATTS ØB= 0
TOTAL WATTS ØC= 0
TOTAL LOAD (WATTS)= 0
TOTAL AMPS = 0.00

PANEL LOAD ANALYSIS

ITEM	LOAD	DIVERSITY	DEMAND
LIGHTING	0.00 KW	125 %	0.00 KW
KITCHEN	0.00 KW	65 %	0.00 KW
RECEPT/SPARES	0.00 KW	100 %	0.00 KW
MISCELLANEOUS	0.00 KW	100 %	0.00 KW
TOTAL	0.00 KW		0.00 KW

PANEL "LP2A"

MOUNTING: SURFACE — 120 / 208 VOLTS — 3 Ø — 4 WIRE — A.I.C. RATING: 10,000 — MAIN: 200A — BUS: 200A

DESCRIPTION	WIRE & CONDUIT SIZE	EQ. NUM.	WATTS ØA	WATTS ØB	WATTS ØC	LIGHTS	KITCHEN	REC/SPR	MISC	BRKR	CIRCUIT		CIRCUIT	BRKR	MISC	REC/SPR	KITCHEN	LIGHTS	WATTS ØA	WATTS ØB	WATTS ØC	WIRE & CONDUIT SIZE	EQ. NUM.	DESCRIPTION
SPACE											1		2											SPACE
SPACE											3		4											SPACE
SPACE											5		6											SPACE
SPACE											7		8											SPACE
SPACE											9		10											SPACE
SPACE											11		12											SPACE
SPACE											13		14											SPACE
SPACE											15		16											SPACE
SPACE											17		18											SPACE
SPACE											19		20											SPACE
SPACE											21		22											SPACE
SPACE											23		24											SPACE
SPACE											25		26											SPACE
SPACE											27		28											SPACE
SPACE											29		30											SPACE
SPACE											31		32											SPACE
SPACE											33		34											SPACE
SPACE											35		36											SPACE
SPACE											37		38											SPACE
SPACE											39		40											SPACE
SPACE											41		42											SPACE

TOTAL WATTS ØA= 0
TOTAL WATTS ØB= 0
TOTAL WATTS ØC= 0
TOTAL LOAD (WATTS)= 0
TOTAL AMPS = 0.00

PANEL LOAD ANALYSIS

ITEM	LOAD	DIVERSITY	DEMAND
LIGHTING	0.00 KW	125 %	0.00 KW
KITCHEN	0.00 KW	65 %	0.00 KW
RECEPT/SPARES	0.00 KW	100 %	0.00 KW
MISCELLANEOUS	0.00 KW	100 %	0.00 KW
TOTAL	0.00 KW		0.00 KW

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Buffalo Puttz

201 Ganson Street,
Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

NOT FOR CONSTRUCTION

SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:

ELECTRICAL PANEL SCHEDULES

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SA JOB #: 22073.03

DATE: 1/12/26

DRAWING #: E-112

KROMAC Design Inc.
MECHANICAL-ELECTRICAL ENGINEERING
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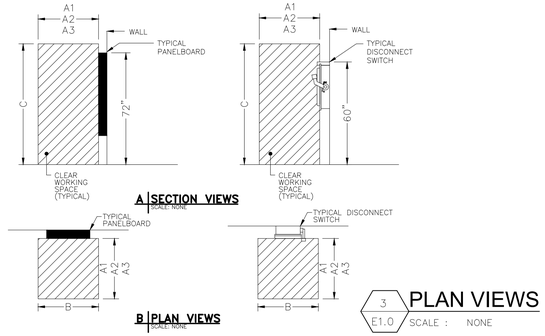
Email: info@kromacdesign.com Project # 24-11-19

TYPICAL WORKING SPACE FOR 0 TO 600 VOLT ELECTRIC EQUIPMENT

NO SCALE



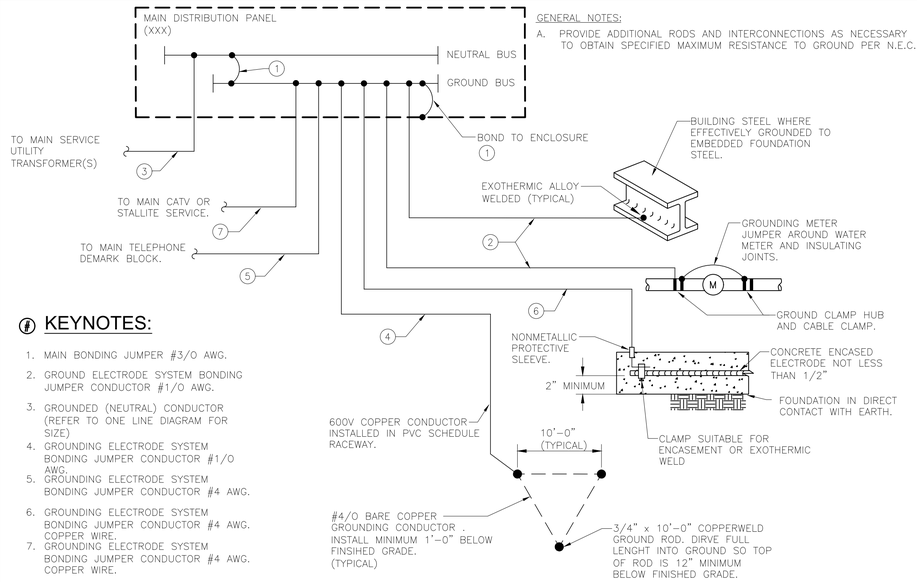
WORKING SPACE DISTANCES—MINIMUM REQUIREMENTS			
DIM	DISTANCE	VOLTS–GND	REMARKS
A1	3'–0"	0–600	NO LIVE/GROUNDED PARTS OPPOSITE EQUIPMENT
A2	3'–6"	151–600	GROUNDED PARTS OPPOSITE EQUIPMENT
A3	4'–0"	151–600	LIVE PARTS OPPOSITE EQUIPMENT
B	2'–6"	0–600	2'–6" OR WIDTH OF EQUIPMENT, WHICHEVER IS GREATER
C	6'–6"	0–600	6'–6" OR HEIGHT OF EQUIPMENT, WHICHEVER IS GREATER

GENERAL NOTES:

1. REFER TO NEC 110–26 FOR ADDITIONAL WORKING SPACE REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE WORKING SPACE DISTANCE REQUIREMENTS ARE MET. COORDINATE EQUIPMENT LOCATIONS WITH ALL TRADES.

SERVICE GROUNDING DETAIL

NO SCALE



GENERAL NOTES:

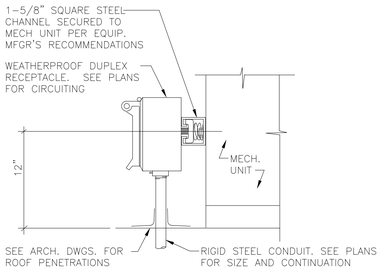
A. PROVIDE ADDITIONAL RODS AND INTERCONNECTIONS AS NECESSARY TO OBTAIN SPECIFIED MAXIMUM RESISTANCE TO GROUND PER N.E.C. 2005.

KEYNOTES:

1. MAIN BONDING JUMPER #3/0 AWG.
2. GROUND ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR #1/0 AWG.
3. GROUNDED (NEUTRAL) CONDUCTOR (REFER TO ONE LINE DIAGRAM FOR SIZE)
4. GROUNDING ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR #1/0 AWG.
5. GROUNDING ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR #4 AWG.
6. GROUNDING ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR #4 AWG. COPPER WIRE.
7. GROUNDING ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR #4 AWG. COPPER WIRE.

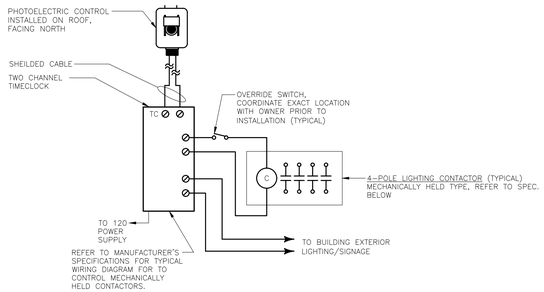
RTU RECEPTACLE MOUNTING DETAIL

NO SCALE



TIME CLOCK - CONTACTOR DETAIL

NO SCALE



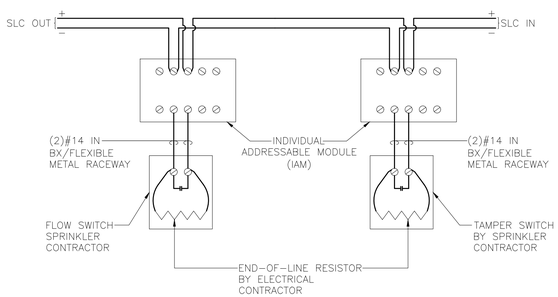
TIME CLOCK SPECIFICATION

A. CONTACTORS SHALL BE SQUARE D 8903 OR APPROVED EQUAL. MOUNT CONTACTORS IN A NEMA 1 ENCLOSURE NEXT TO PANEL "LP1".

B. PROVIDE PARAGON EL72, ELECTRONIC TIME CONTROL. THE CONTROL SHALL HAVE 24–HOUR, 7–DAY, 365 DAY, SUNTRACKER. CAPABILITY WITH 128 EVENTS AVAILABLE. IT SHALL ALSO HAVE 4 USER–DEFINABLE DURATIONS AND DUTY CYCLE LENGTHS PLUS AUTOMATIC DAYLIGHT SAVINGS TIME AND LEAP YEAR ADJUSTMENTS. CONTROL SHALL HAVE REMOTE OVERRIDE CAPABILITIES (TIMED, TOGGLE OR ENABLE TYPE.) CONTROL SHALL HAVE KEYBOARD OVERRIDE UNTIL OVERRIDDEN AGAIN OR UNTIL NEXT EVENT IS REACHED. IT SHALL BE CAPABLE OF SWITCHING LOADS BASED ON USER–DEFINABLE TEMPERATURE AND LIGHT LEVELS WITH 32 EVENTS AVAILABLE. CONTROL SHALL HAVE MOMENTARY (LATCHING RELAY) CAPABILITY AND SHALL HAVE ASTRO FEATURES PLUS 30 DEFINABLE HOLIDAYS AND 6 PREPROGRAMMED HOLIDAYS. CONTROL SHALL TYPICALLY PROVIDE 96 HOURS OF POWER OUTAGE CARRY–OVER WITHOUT A BATTERY. THE DIGITAL TIME DISPLAY SHALL BE 3/4" IN HEIGHT, CLOCK FORMAT SHALL BE SELECTABLE, ALLOWING A CHOICE OF 12 HOUR (AM/PM) OR 24 HOUR FORMAT. CONTROL SHALL BE CAPABLE OF INTERFACING (SENDING AND RECEIVING DATA) WITH A PERSONAL COMPUTER. WIRING TERMINALS SHALL HAVE THE CAPABILITY TO ACCOMMODATE #16 TO #10 AWG WIRE. CONTROL SHALL BE HOUSED IN A NEMA 1, LOCKABLE STEEL ENCLOSURE OR A NEMA 3R ENCLOSURE WITH CLEAR–VIEW COVER AND SHALL BE LOCKABLE TO GUARD AGAINST VANDALISM OR TAMPERING. OR APPROVED EQUAL.

TYPICAL SPRINKLER SYSTEM INTERFACE DIAGRAM

NO SCALE

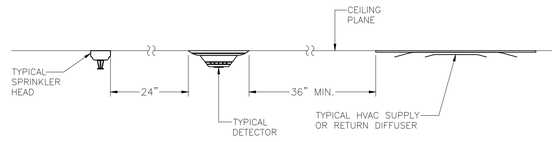


NOTE:

DUAL TYPE ADDRESSABLE ALARM INITIATING TYPE OF DEVICES MAY BE USED IN LIEU OF INDIVIDUAL DEVICES.

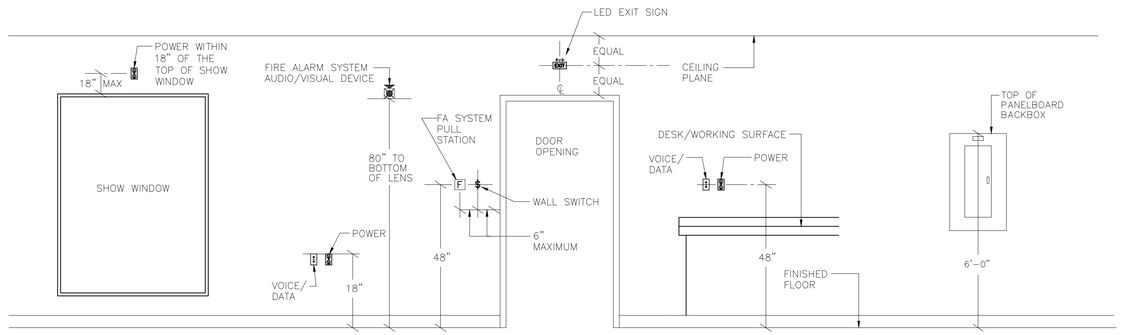
SMOKE DETECTOR INSTALLATION CLEARANCES

NO SCALE



TYPICAL MOUNTING HEIGHTS FOR ELECTRIC WORK

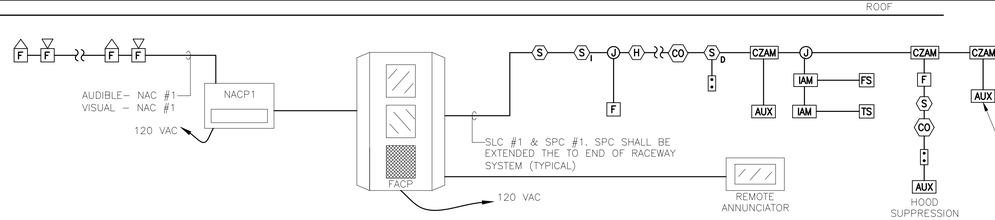
NO SCALE



2

FIRE ALARM RISER DETAIL

NO SCALE



FIRE ALARM RISER NOTES:

– DEVICE QUANTITIES ARE SHOWN FOR DESIGN PURPOSES ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE QUANTITIES AS REQUIRED.

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Project # 24-11-19

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ELECTRICAL DETAILS

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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: E-113

ELECTRICAL SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS

A. THE INSTRUCTIONS TO BIDDERS, FORM OF BID, FORM OF CONTRACT, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND THE CONTRACT DRAWINGS ARE A PART OF THE SPECIFICATIONS FOR THIS DIVISION OF WORK AND THIS CONTRACTOR SHALL REFER TO THEM FOR INSTRUCTIONS PERTAINING TO HIS WORK.

B. "THE CONTRACTOR", "THIS CONTRACTOR", "EC", AND "DIVISION 16", AS USED IN THESE DRAWINGS AND SPECIFICATIONS, MEANS THE ELECTRICAL CONTRACTOR. "FURNISH AND INSTALL", "SUPPLY", AND "INSTALL", AS USED IN THESE SPECIFICATIONS, MEANS A COMPLETE AND WORKABLE INSTALLATION BY THE E.C.

C. WHERE SPECIFICATIONS AND/OR DRAWINGS CONFLICT WITH ANY CODE REQUIREMENT, CODE REQUIREMENTS SHALL BE FOLLOWED.

D. CODES AND STANDARDS:

1. NEW YORK STATE BUILDING CODE
2. NFPA STANDARDS
3. ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES
4. STATE CONSERVATION CONSTRUCTION CODE
5. LATEST ADOPTED NATIONAL ELECTRICAL CODE 2017

E. THE ELECTRICAL SYSTEMS COVERED BY THIS CONTRACT INCLUDE, BUT ARE NOT LIMITED TO:

1. BRANCH CIRCUIT WIRING AND RACEWAYS
2. WIRING DEVICES
3. DISCONNECTS
4. MOTOR STARTERS AND MOTOR STARTING EQUIPMENT
5. GROUNDING AND BONDING
6. LIGHTING FIXTURES AND LAMPS
7. ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING PANELBOARDS, OVERCURRENT DEVICES, AND FEEDERS
8. EXISTING CONSTRUCTION AND COORDINATION OF DEMOLITION WORK
9. CONNECTIONS TO HVAC, PLUMBING, FIRE PROTECTION, AND ALL OTHER ELECTRICALLY SUPPLIED EQUIPMENT, CONTROLS, CONTROL PANELS, MOTOR STARTERS, MOTOR STARTING EQUIPMENT AND DISCONNECTS NOT FURNISHED UNDER HVAC, PLUMBING, FIRE PROTECTION, OR OTHER CONTRACTS

F. PAY FOR ALL PERMITS, INSPECTION FEES, LICENSES AND FOR TESTS WHICH MAY BE REQUIRED IN DETERMINING THE COMPLETENESS OF THE ELECTRICAL WORK.

G. ALL ELECTRICAL PRODUCTS USED ON THIS PROJECT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL).

H. ALL ELECTRICAL PRODUCTS USED ON THIS PROJECT SHALL CONFORM TO APPLICABLE STANDARD OF THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

I. ALL ELECTRICAL INSTALLATION AND PRODUCTS USED ON THIS PROJECT SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC).

J. THE PLANS SHOW THE APPROXIMATE LOCATION OF ALL PARTS OF THE WORK. THE ARCHITECT WILL GIVE EXACT LOCATIONS. WHERE STRUCTURAL CONDITIONS ENCOUNTERED NECESSITATE MINOR CHANGES, THESE SHALL BE MADE WITHOUT CHARGE, BUT MUST MEET WITH THE APPROVAL OF THE ARCHITECT. WHERE MAJOR CHANGES ARE REQUIRED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

K. NOTIFY THE ARCHITECT, AND OBTAIN APPROVAL, BEFORE ANY COMPONENTS OF THE ELECTRICAL SYSTEM ARE CONCEALED BY CLOSING OFF AREAS, POURING CONCRETE, ETC.

L. DETERMINE AND BE RESPONSIBLE FOR PROPER SIZE AND LOCATION OF OPENINGS AND CHASES, AND GIVE GENERAL CONTRACTOR NOTICE OF REQUIREMENTS. INSTALL ALL SLEEVES NECESSARY FOR THE WORK. WHEREVER ANY RACEWAY PASSES THROUGH A WALL, THE OPENING SHALL BE SEALED TIGHT AGAINST THE RACEWAY BY THIS CONTRACTOR. RACEWAYS THROUGH FOUNDATION WALLS AND ROOFS SHALL BE SEALED WATERTIGHT BY THIS CONTRACTOR.

M. THIS CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND PATCHING WHICH IS NOT CALLED TO BE DONE UNDER ANOTHER DIVISION. ALL CUTTING AND REPAIRING SHALL BE PERFORMED BY SKILLED WORKERS.

N. PAINT ALL EXPOSED RACEWAYS IN FINISHED ROOMS WITH TWO COATS OF PAINT TO MATCH SURROUNDINGS. INSTALL PANELBOARD TRIMS, CABINETS, ENCLOSURES, ETC., IN SUFFICIENT TIME SO THAT THE PAINTING CONTRACTOR MAY PAINT THESE SURFACES WITH THE WALLS. THIS CONTRACTOR SHALL PAY FOR ALL NECESSARY PAINTING IF THE ABOVE PROCEDURE IS NOT FOLLOWED.

O. THE CONTRACTOR SHALL FURNISH AND INSTALL THE POWER AND LIGHTING REQUIRED FOR THE CONSTRUCTION THE SCOPE SHALL INCLUDE, BUT NOT LIMITED TO:

1. TEMPORARY POWER DISTRIBUTION
2. LAMP SOCKETS AND LAMPS
3. OUTLETS AND CONSTRUCTION EQUIPMENT CONNECTION INCLUDING WELDERS
4. REMOVAL OF TEMPORARY DISTRIBUTION AFTER COMPLETION OF CONSTRUCTION

P. THE ELECTRICAL CONTRACTOR SHALL INSTALL RACEWAYS IN SUCH A MANNER THAT THE EXPANSION JOINTS OF THE BUILDING WILL FUNCTION PROPERLY AND NOT STRESS ANY ELECTRICAL RACEWAYS. EXPANSION JOINTS SHALL BE INSTALLED IN ALL RACEWAYS AT THE EXPANSION JOINTS OF THE BUILDING.

Q. BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS; ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION BEFORE PROCEEDING WITH THE WORK.

R. PROVIDE PRODUCT DATA, CATALOG CUT SHEETS WITH MFG. SPECIFICATIONS FOR REVIEW BY ARCH./ENGR. FOR THE FOLLOWING ITEMS:

1. PANELBOARDS
2. SAFETY DISCONNECT SWITCHES
3. OUTLET BOXES
4. FITTINGS
5. LIGHTING FIXTURES
6. LAMPS
7. CONDUCTORS
8. DEVICES
9. TIME SWITCHES
10. TRANSFORMERS
11. FIRE ALARM SYSTEM

S. PROVIDE (3) SUBMITTAL COPIES FOR EACH ITEM LISTED ABOVE.

T. MAINTAIN THROUGHOUT PROJECT A SET OF PLANS WHICH ACCURATELY PORTRAY THE ACTUAL INSTALLATION, INCLUDING LOCATION OF ALL WIRING, EQUIPMENT, CIRCUIT NUMBERS, ETC. TURN OVER TO OWNER AT COMPLETION OF JOB.

U. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT SHALL HAVE TERMINALS RATED FOR 75° C OPERATION.

RACEWAYS AND FITTINGS

A. WHERE CALLED FOR ON THE DRAWINGS, FLOOR OUTLET BOXES AND POKE-THROUGH DEVICE SHALL BE AS MANUFACTURED BY HUBBELL, WALKER, OR LEW.

B. WIRING AND RACEWAYS SHALL BE CONCEALED IN ALL ROOMS AND SPACES UNLESS OTHERWISE NOTED.

C. ALL FEEDERS AND BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN EMT. WHERE ALLOWED, BRANCH CIRCUITS MAY BE TYPE MC CABLE BETWEEN HOMERUN JUNCTION BOX AND EQUIPMENT/DEVICE CONNECTION IN DRYWALL PARTITIONS ONLY. HOMERUN JUNCTION BOX TO BE A MAXIMUM OF 20 FT. FROM EQUIPMENT/DEVICE.

D. FOR USE IN UNFINISHED AREAS: WIRE IN SURFACE MOUNTED RGS CONDUIT.

E. FOR OUTDOOR USE: WIRE IN THREADED, RIGID STEEL CONDUIT.

F. FOR UNDERGROUND USE: WIRE IN SCHEDULE 80 RIGID PVC NONMETALLIC CONDUIT.

G. FOR FINAL CONNECTION IN DAMP OR WET LOCATIONS: LIQUID TIGHT FLEXIBLE METAL CONDUIT, WITH LISTED FITTINGS.

H. NOT USED

I. IN ALL INSTANCES, INCLUDE A SEPARATE GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT, SIZE PER NEC.

J. FURNISH ALL FITTINGS REQUIRED, BUT NOT LIMITED TO: BUSHINGS TO PREVENT WIRE ABRASION; SINGLE-AND MULTIPLE-GANG BOXES TO ACCOMMODATE DEVICE INSTALLATION; ADAPTERS FROM CONDUIT TO RACEWAY; TRANSITIONS TO BOTH LARGER AND SMALLER SURFACE METAL RACEWAYS; 90 DEGREE ELBOWS, TEES, FIXTURE BOXES, AND FLEXIBLE SECTIONS.

K. SURFACE METAL RACEWAY AND FITTINGS SHALL MEET ALL REQUIREMENTS OF NEC ARTICLE 352A AND SHALL BE UL LISTED.

L. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION, INSTALLATION, AND LOCATION OF ALL NECESSARY AND REQUIRED INSERTS, SUPPORTS, AND ANCHOR BOLTS, AND FOR A SATISFACTORY RACEWAY SYSTEM UPON COMPLETION OF THE PROJECT.

M. WHERE ANY COMPONENT OF THE RACEWAY SYSTEM IS DAMAGED PRIOR TO FINAL ACCEPTANCE BY THE OWNER, THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE SAME OR PROVIDE A NEW RACEWAY SYSTEM, AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.

N. CONDUITS SHALL BE RUN TO AVOID ADVERSE CONDITIONS SUCH AS HEAT AND MOISTURE AND TO AVOID ALL MATERIALS AND EQUIPMENT OF OTHER TRADES. CONDUITS SHALL MAINTAIN A MINIMUM CLEARANCE OF SIX INCHES FROM ALL HOT WATER PIPES, FLUES, OR AND HIGH TEMPERATURE PIPING OR DUCTWORK. SHOULD IT BE FOUND NECESSARY TO INSTALL CONDUIT CLOSER THAN THIS TO HOT WATER PIPES AN INSULATING COVERING SHALL BE USED TO PROTECT THE CONDUIT FROM HIGH TEMPERATURE.

O. RACEWAYS SHALL NOT BE SMALLER THAN THE SIZE REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR THE CONDUCTORS ENCLOSED AND SHALL BE LARGER WHERE SO SPECIFIED OR INDICATED ON THE PLANS.

P. ALL EXPOSED RUNS OF CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR CEILINGS. SUPPORTS SHALL BE FROM THE MASONRY OR STEEL STRUCTURE RATHER THAN FROM OTHER MECHANICAL WORK SUCH AS DUCTS, PIPING, ETC. IN ACCORDANCE WITH GOOD INDUSTRY PRACTICE IN A MANNER ACCEPTABLE TO THE ARCHITECT.

Q. SUPPORTS AND ATTACHMENTS PROVIDED SHALL BE SPECIFICALLY DESIGNED FOR THE APPLICATIONS. PERFORATED HANGERS OR WIRE TIE SUPPORTS ARE NOT ACCEPTABLE. ALL HANGERS AND SUPPORTS SHALL HAVE CORROSION RESISTANT FINISH.

R. ALL CONDUITS AND RACEWAYS PASSING THROUGH WALLS, FLOORS, AND CEILINGS SHALLBE SLEEVED WITH A PIECE OF SCHEDULE 40 GALVANIZED STEEL PIPE WITH PLAIN ENDS. ALL SLEEVES SHALL BE SEALED WATERTIGHT USING A MATERIAL SIMILAR IN APPEARANCE TO THE SURROUNDING AREA OR APPROVED MATERIAL.

S. CONDUITS EXTENDING THROUGH ROOFS SHALL BE EQUIPPED WITH PITCH POCKETS.

T. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A NYLON PULLWIRE.

U. ALL CONDUIT PASSING THROUGH A FIRE ZONE SHALL HAVE A FIRE RATED INSTALLATION.

V. CONDUIT SHALL BE INSTALLED SO THAT A CONTINUOUS GROUNDING SYSTEM WILL BE MAINTAINED FROM THE FURTHERMOST OUTLET TO THE ESTABLISHED WATER PIPE GROUND.

W. CONDULETS, UNILETS, OR SIMILAR APPROVED TYPE FITTINGS SHALL BE USED ON EXPOSED WORK WHERE CONDUIT CHANGES DIRECTION AND WHERE BENDS WILL NOT MAKE A NEAT JOB.

X. EXPOSED CONDUIT SHALL BE SECURELY FASTENED TO THE BUILDING AT EIGHT-FOOT MINIMUM INTERVALS, USING APPROVED HANGERS, STRAPS, CLAMPS, OR SCREWS. WOOD PLUGS SHALL NOT BE USED FOR FASTENING PURPOSES. CONDUIT RUN ABOVE HUNG CEILING OR IN CRAWL SPACES SHALL BE SUPPORTED IN THE SAME MANNER AS FOR EXPOSED RUNS. WIRE TIES ARE NOT ACCEPTABLE SUPPORTS.

Y. CARE SHALL BE EXERCISED TO MAKE CERTAIN THAT THE CONDUIT SYSTEM NOW PLANNED WILL PERMIT REMOVAL OF CONDUCTORS FOR FUTURE CHANGES AS MAY BE REQUIRED. ALTHOUGH UP TO FOUR 90 DEGREE BENDS ARE PERMITTED BY THE NATIONAL ELECTRICAL CODE, THE PRACTICE OF USING MORE THAN THREE 90 DEGREE BENDS PER RUN SHALL BE AVOIDED. PULL BOXES SHALL BE USED IF AT ALL FEASIBLE.

Z. PULLBOXES SHALL BE INSTALLED AT 100 FOOT INTERVALS IN LONG STRAIGHT RUNS. CLOSE NIPPLES WILL NOT BE PERMITTED.

AA. CONDUIT SMALLER THAN 1/2" SHALL NOT BE USED.

THE REQUIRED STRENGTH OF THE SUPPORTING EQUIPMENT AND THE SIZE AND TYPE OF ANCHORS SHALL BE BASED ON THE COMBINED WEIGHT OF CONDUIT, HANGERS, AND CONDUCTORS. THE USE OF PERFORATED IRON STRAPS FOR SUPPORTING CONDUITS WILL NOT BE PERMITTED.

BB. SINGLE RUNS:

1. WHERE CONDUITS ARE RUN INDIVIDUALLY, THEY SHALL BE SUPPORTED BY APPROVED PIPE STRAPS, SECURED BY MEANS OF TOGGLE BOLTS
2. IN HOLLOW MASONRY; EXPANSION SHIELDS AND MACHINE SCREWS OR STANDARD PRESET INSERTS IN CONCRETE OR SOLID MASONRY; MACHINE SCREWS OR BOLTS IN METAL SURFACES; AND WOOD SCREWS IN WOOD CONSTRUCTION. THE USE OF PERFORATED IRON STRAPS WILL NOT BE PERMITTED.
3. CONDUITS INSTALLED EXPOSED ON THE SURFACE IN DAMP LOCATIONS OR IN REFRIGERATED AREAS SHALL BE PROVIDED WITH CLAMP BACKS UNDER EACH CONDUIT CLAMP TO PREVENT ACCUMULATION OF MOISTURE AROUND THE CONDUITS. WHERE INDIVIDUAL CONDUITS ARE SUSPENDED FROM THE CEILING THEY SHALL BE SUPPORTED BY HANGERS EQUIVALENT TO STEEL CITY NO. C-149.

CC. MULTIPLE RUNS:

1. WHERE A NUMBER OF CONDUITS ARE TO BE RUN EXPOSED AND PARALLEL, ONE WITH ANOTHER, THEY SHALL BE GROUPED AND SUPPORTED BY TRAPEZE HANGERS.
2. HANGER RODS SHALL BE FASTENED TO STRUCTURAL STEEL MEMBERS WITH SUITABLE BEAM CLAMPS, OR TO CONCRETE INSERTS SET FLUSH WITH SURFACE.

DD. THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES, PULLBOXES, AND CABLE SUPPORT BOXES AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, OR AS OTHERWISE REQUIRED. BOXES SHALL BE SECURED IN POSITION INDEPENDENTLY OF CONDUITS ENTERING THEM BY MEANS OF BOLTS, ROD HANGERS, BRACKETS, OR OTHER APPROVED METHODS. OUTLET BOXES SHALL BE SECURELY FASTENED TO CEILINGS, WALLS OR COLUMNS.

EE. BOXES INSTALLED IN FINISHED CEILINGS, WALLS OR COLUMNS SHALL BE SET SO THAT THE FRONT EDGE OF THE BOX SHALL BE FLUSH WITH FINISHED CEILINGS, WALLS OR COLUMNS.

FF. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFIED HEREIN, RECEPTACLE OUTLET CENTERLINES SHALL BE INSTALLED 18" ABOVE THE FLOOR.

GG. PROVIDE FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OR FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE-RESISTANCE RATING OF THE ASSEMBLY.

WIRE AND CABLE

A. ACCEPTABLE MANUFACTURERS SHALL BE ANACONDA, GENERAL ELECTRIC, CERRO, OR BRAND REX.

B. ALL CONDUCTORS SHALL BY COPPER, WITH 600 VOLT INSULATION, UNLESS OTHERWISE NOTED; STRANDING AND INSULATION TYPES AS FOLLOWS:

C. BRANCH CIRCUIT FEEDERS

1. #10 AWG AND SMALLER (SOLID) – TYPE THHN/THWN INSULATION.
2. #8 AWG AND LARGER (STRANDED) – TYPE THHN/THWN INSULATION.

D. ALL WIRE AND CABLE SHALL BE NEW, WITHIN ONE YEAR OF MANUFACTURE WHEN DELIVERED TO THE SITE AND BEAR THE UL LABEL, INSULATION TYPE, VOLTAGE, AND MANUFACTURER'S NAME AT REGULAR INTERVALS ON THE INSULATION.

E. ALL WIRING SHALL BE DONE SO THAT THE SYSTEM WILL BE CONTINUOUSLY POLARIZED THROUGHOUT, FOLLOWING THE COLOR CODING INDICATED IN THE NEC.

F. ALL CONNECTIONS USING COPPER SHALL BE MADE WITH CONNECTORS THAT ARE DESIGNED AND APPROVED FOR COPPER.

G. JOINTS, TAPS AND SPLICES OF WIRES OF SIZES #10 AWG AND SMALLER SHALL BE MADE BY MEANS OF "SCOTCHLOK" SPRING CONNECTORS.

H. JOINTS, TAPS AND SPICES OF WIRES OF SIZE #8 AWG AND LARGER SHALL BE MADE WITH THOMAS AND BETTS ALUMINUM/COPPER COLOR –KEYED COMPRESSION CONNECTORS, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

I. WIRE SIZES SHALL BE AS SHOWN ON THE DRAWINGS OR SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

J. ALL FEEDER CABLES SHALL BE CONTINUOUS FROM ORIGIN TO EQUIPMENT TERMINATION WITHOUT RUNNING SPLICES IN INTERMEDIATE PULL OR SPLICE BOXES AS FAR AS PRACTICABLE. NO SPLICES ARE ALLOWED IN "C" CONDULETS.

K. CONDUCTORS SHALL NOT BE SMALLER THAN CODE SIZE FOR THE LOADS BEING HANDLED AND SHALL BE LARGER IF SO INDICATED IN THE PLANS OR SPECIFICATIONS. NO CONDUCTOR SHALL BE LESS THAN #12 AWG EXCEPT FOR CONTROL CIRCUITS, WHICH MAY BE #14 WIRE WHEN INDICATED.

L. PROVIDE SEPARATE GREEN GROUND (EQUIPMENT GROUND) CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.

M. WIRING IN DUCTS, PLENUMS, AND OTHER AIR HANDLING SPACES SHALL BE PROVIDED PER NEC ART. 300.22 AND ALL OTHER APPLICABLE CODE SECTIONS. WHERE PROVIDED PLENUM CABLE SHALL BE LISTED AS BEING SUITABLE FOR USE IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR AND SHALL ALSO BE LISTED AS HAVING ADEQUATE FIRE-RESISTANT AND LOW SMOKE-PRODUCING CHARACTERISTICS. WIRING SHALL INCLUDE BUT NOT LIMITED TO POWER, LIGHTING, TELEPHONE, DATA, FIRE ALARM, SECURITY, ETC.

N. ALL WIRING IN TREATMENT ROOMS MUST COMPLY WITH 2008 NEC SECTION 517.

CABINETS, BOXES, AND FITTINGS

A. USE SHEET STEEL JUNCTION, OUTLET AND PULL BOXES SIZED PER NEC IN ALL DRY LOCATIONS.

B. USE CAST BOXES FOR EXTERIOR USE, WHERE IN CONCRETE FLOORS, AND IN ALL DAMP OR WET LOCATIONS.

C. NOT USED.

D. USE STEEL OR MALLEABLE IRON FITTINGS SPECIFICALLY DESIGNED FOR EACH RACEWAY TYPE, AS DICTATED BY GOOD PRACTICE.

E. IN ALL CASES, ALL CABINETS, JUNCTION AND OUTLET BOXES SHALL BE ACCESSIBLE.

ELECTRICAL CONNECTIONS FOR EQUIPMENT

A. FIXED EQUIPMENT REQUIRING ATTACHMENT PLUGS SHALL BE PROVIDED WITH APPROPRIATE RECEPTACLE TO MATCH PLUG.

B. FIXED EQUIPMENT REQUIRING DIRECT WIRED CONNECTIONS SHALL BE PROVIDED WITH LOCAL JUNCTION BOX AND FLEXIBLE NONMETALLIC CONDUIT, OR LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT CONNECTIONS TO EQUIPMENT.

C. PROVIDE SEPARATE FUSIBLE DISCONNECT FOR EQUIPMENT NOT FURNISHED WITH INTEGRAL OR FACTORY FURNISHED DISCONNECTING MEANS.

D. PROVIDE MOTOR STARTER FOR EQUIPMENT NOT FURNISHED WITH FACTORY STARTER.

WIRING DEVICES

A. FOR FINISHED AREAS, USE SPECIFICATION GRADE DEVICES, COLOR AS SELECTED BY ARCHITECT, WITH SMOOTH THERMOPLASTIC WALL PLATE, COLOR TO MATCH DEVICE.

B. FOR UNFINISHED DRY INTERIOR SPACES, USE SPECIFICATION GRADE DEVICE IN STEEL UTILITY BOXES WITH MATCHING STEEL DEVICE COVERS.

C. FOR INTERIOR AND EXTERIOR WET LOCATIONS, USE SPECIFICATION GRADE DEVICES INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE", AS MANUFACTURED BY TAYMAC CORP., WITH PUSH-BUTTON RELEASE.

D. RECEPTACLES:

20A, 125V DUPLEX RECEPTACLE: HUBBELL #CR5362
20A, 125V DUPLEX GFI RECEPTACLE: HUBBELL #GF5362
20A, 125V DUPLEX IG RECEPTACLE: HUBBELL #CR5362IG

E. SWITCHES:

20A, 120/277V A.C. TOGGLE SWITCH: HUBBELL #CS1221
20A, 120/277V A.C. THREE-WAY SWITCH: HUBBELL #CS1223
20A, 120/277V A.C. FOUR-WAY SWITCH: HUBBELL #CS1224

F. MOUNTING: MOUNT DEVICES IN SINGLE OR GANGED ARRANGEMENT, AS CALLED FOR ON THE DRAWINGS. PROVIDE APPROPRIATE STEEL BACKBOX AS REQUIRED; USE SINGLE OR MULTIPLE DEVICE COVERS, AS REQUIRED. MULTIPLE DEVICES TO BE EQUALLY SPACED, AND ALIGNED STRAIGHT SO AS TO ALLOW DEVICE PLATE TO FIT SNUGLY AND PROPERLY.

G. WHERE MOUNTING ON MILLWORK OR OTHER EQUIPMENT, VERIFY PROPER ROUGH-IN DIMENSIONS WITH ARCHITECT.

H. DEVICES IN MECHANICAL EQUIPMENT ROOMS MAY BE WIRED USING SURFACE MOUNTED CONDUIT. DEVICES TO BE INSTALLED AT HEIGHTS TO COMPLY WITH APPLICABLE HANDICAPPED REQUIREMENTS: RECEPTACLES +18" UNLESS OTHERWISE NOTED; WALL SWITCHES +48"; FIRE ALARM PULLSTATIONS +48"; FIRE ALARM AUDIO VISUAL DEVICES +6'-8" TO CENTERLINE OF STROBE UNLESS OTHERWISE NOTED. DIMENSIONS ABOVE FROM FINISHED FLOOR TO CENTERLINE. REFER TO TYPICAL MOUNTING HEIGHT DETAIL ON DRAWINGS FOR FURTHER REQUIREMENTS.

I. MANUFACTURERS: HUBBELL, PASS & SEYMOUR, LEVITON.

SAFETY DISCONNECT DEVICES

A. DISCONNECTION DEVICES RATING SHALL BE AS SHOWN ON THE DRAWINGS, HEAVY-DUTY, "QUICK-MAKE, QUICK-BREAK", SAFETY SWITCHES WITH INTERLOCKING COVER, CONSTRUCTED OF CODE GAGE STEEL (UL 98). ENCLOSURES SHALL BE TREATED WITH RUST INHIBITING PHOSPHATE AND FINISHED IN GRAY BAKED ENAMEL.

B. DISCONNECTS SHALL BE FUSED OR NON-FUSED AS INDICATED ON THE DRAWINGS, OR AS REQUIRED BY NEC. NUMBER OF POLES, WITH OR WITHOUT SOLID NEUTRAL, SHALL BE AS INDICATED ON THE DRAWINGS, OR AS REQUIRED.

C. ENCLOSURES FOR INDOOR USE SHALL BE NEMA 1; ENCLOSURES FOR EXTERIOR USE SHALL BE NEMA 3R, ENCLOSURES FOR HAZ. LOCATIONS SHALL BE CLASS II DIV. I LISTED.

D. DISCONNECTS SHALL REQUIRE THE USE OF A SCREWDRIVER FOR ACCESS TO INTERIOR WITHOUT OPENING CONTACTS.

E. DISCONNECTS SHALL HAVE PROVISIONS FOR PADLOCKING THE SWITCH IN THE "OFF", OR "OPEN" POSITION.

F. ACCEPTABLE MANUFACTURERS ARE SQUARE D, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.

G. FURNISH A SAFETY DISCONNECT DEVICE ON ALL EQUIPMENT CONNECTIONS WHERE INDICATED ON THE DRAWINGS, OR AS REQUIRED BY CODE.

H. DISCONNECTS SHALL BE MOUNTED TO PERMANENT STRUCTURAL ELEMENTS WITH APPROVED FASTENING MEANS. DISCONNECTS SHALL NOT BE FASTENED BY WELDING TO THE ENCLOSURE TO ITS DESIGNATED STRUCTURAL SUPPORT. BEAM CLAMPS, UNISTRUT AND BOLTED WASHERS COMPRISE ACCEPTABLE FASTENING MEANS.

I. GROUND SERVICE, EQUIPMENT, CIRCUITS PER NEC.ART 250. USE COPPER CONDUCTORS.

J. NAMEPLATES SHALL BE PLASTIC LAMINATE WITH WHITE BACKGROUND AND 1/4" BLACK ENGRAVED LETTERS WITH THE TITLE OF THE EQUIPMENT THAT IS FED. NAMEPLATES SHALL BE ATTACHED USING RIVETS OR NUTS, WASHERS, AND BOLTS.

GROUNDING

A. GROUND SERVICE, EQUIPMENT, CIRCUITS PER NEC.ART 250. USE COPPER CONDUCTORS.

PANELBOARDS

A. SHALL BE UL LISTED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT", WHERE APPLICABLE.

B. PHASE, NEUTRAL AND GROUND BUSSES SHALL BE COPPER, AND PHASE BUSSES SHALL EXTEND THE ENTIRE HEIGHT OF PANELBOARD, FOR FUTURE INSTALLATION OF ADDITIONAL CIRCUIT BREAKERS, WITHOUT THE NEED FOR CONNECTORS, BUT CIRCUIT BREAKERS CONNECTIONS TO THE BUS SHALL BE: BOLT-ON, DOUBLE ROW ARRANGEMENT, DISTRIBUTED PHASE BUS TYPE.

C. CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL MAGNETIC, BOLT-ON TYPE, DEAD FRONT DESIGN, WITH QUICK-MAKE, QUICK-BREAK, COMMON TRIP TYPE SINGLE HANDLE OPERATING MECHANISMS, 1, 2, OR 3 POLE, AND HACR LISTED WHEN USED FOR HVAC EQUIPMENT, SIZED PER PANELBOARD SCHEDULE.

D. BACKBOXES SHALL BE FABRICATED FROM GALVANIZED, CODE GAUGE, SHEET STEEL, MEETING OR EXCEEDING NECESSARY REQUIREMENT FOR WIRE BENDING SPACE, WITHOUT KNOCKOUTS.

E. COVERS SHALL BE DEAD FRONT DESIGN, WITH HINGED DOOR, CONCEALED FASTENERS, FABRICATED FROM CODE GAGE STEEL WITH POINTED ENAMEL FINISH, FLUSH LOOK AND CATCH.

F. PANELBOARD DIRECTORY CARD, WITH CLEAR PLASTIC COVER, SHALL BE PROVIDED ON BACK OR DOOR. CONTRACTOR SHALL COMPLETE DIRECTORY CARD, WITH CIRCUIT BREAKER NUMBERS CROSS REFERENCED TO THEIR RESPECTIVE LOAD(S), BY LOAD TYPE AND ROOM OR SPACE NAME AND NUMBER.

G. PROVIDE PERMANENT LAMACOID OR EQUAL TYPE LABEL INSIDE PANELBOARD DOOR, IDENTIFYING PANELBOARD NAME.

H. DESIGN EQUIPMENT SHALL BE SQUARE D CO. – TYPE NQOD FOR 208Y/120V PANELBOARDS; TYPE NF FOR 480Y/277V PANELBOARDS; TYPE I-LINE FOR DISTRIBUTION PANELBOARDS. ALTERNATE MANUFACTURERS ARE: CUTTLER-HAMMER/WESTINGHOUSE, OR SIEMENS/ITE.

FUSES

A. PROVIDE INSTANTANEOUS OR TIME DELAY TYPE FUSES FOR EACH FUSIBLE DEVICE, INCLUDING DISCONNECTS, FUSIBLE MOTOR STARTERS, SERVICE SWITCHES. PROVIDE TIME CURRENT CURVES FOR EACH TYPE AND SIZE FUSE USED. PROVIDE ONE SPARE SET OF FUSES FOR EACH SIZE INSTALLED.

B. CARTRIDGE FUSE APPLICATION:

1. MAIN SERVICE: CLASS L FAST ACTING.
2. MAIN FEEDERS: CLASS J TIME DELAY.
3. MOTOR BRANCH CIRCUITS: CLASS RK1 TIME DELAY.
4. OTHER BRANCH CIRCUITS: CLASS RK5 NON-TIME DELAY.

C. MANUFACTURERS: BUSSMAN, EAGLE ELECTRIC, GENERAL ELECTRIC, GOULD.

MOTOR STARTERS

A. FRACTIONAL HORSEPOWER MOTOR CIRCUIT SWITCH: FOR MANUALLY CONTROLLED MOTORS LESS THAN 1 H.P., USE MOTOR CIRCUIT SWITCH WITH PILOT LIGHT, WITH THERMAL UNITS, FOR MOTORS NOT EQUIPPED WITH SAME, BASIS FOR DESIGN: SQUARE D TYPE K.

B. MANUAL MOTOR STARTER: FOR MANUALLY CONTROLLED MOTORS 1 H.P. THROUGH 3 H.P., USE INTEGRAL HORSEPOWER MANUAL STARTER, PUSH-BUTTON TYPE, WITH THERMAL UNITS, ONE AUXILIARY N.O./N.C. CONTACT, PILOT LIGHT, BASIS FOR DESIGN: SQUARE D TYPE M.

C. COMBINATION MOTOR STARTER: FOR ALL OTHER MOTORS, OR WHEN INDICATED ON THE DRAWINGS, USE COMBINATION MOTOR STARTER, FUSIBLE DISCONNECT TYPE, WITH OVERLOADS, CONTROL POWER TRANSFORMER AND FUSES, HAND-OFF-AUTO SELECTOR SWITCH, OFF AND RUNNING PILOT LIGHTS, (2) N.O./N.C. AUX CONTACTS; NEMA 1 ENCLOSURE FOR INDOOR USE, NEMA 4 ENCLOSURE FOR EXTERIOR USE. NON-REVERSING OR REVERSING AS INDICATED ON THE DRAWINGS. SIZE AS REQUIRED FOR MOTOR HORSE POWER SERVED; LARGER SIZE REQUIRED WHERE A SPECIFIC SIZE IS INDICATED ON THE DRAWINGS. FUSIBLE TYPE SHALL BE FURNISHED, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. BASIS FOR DESIGN: SQUARE D CLASS 8538(FUSIBLE, NON-REVERSING); CLASS 8736(FUSIBLE, REVERSING); CLASS 8539(CIRCUIT BREAKER, NON-REVERSING); CLASS 8739(CIRCUIT BREAKER, REVERSING).

D. MANUFACTURERS: SQUARE-D, GENERAL ELECTRIC, CHALLENGER, SIEMENS.

INTERIOR LIGHTING

A. PROVIDE AND INSTALL ITEMS AS SPECIFIED HEREIN AND LISTED ON THE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS.

B. CATALOG NAMES AND NUMBERS USED IN THE LIGHTING FIXTURE SCHEDULE ARE TO ESTABLISH A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION.

C. IF ALTERNATED, OR OPTIONAL, METHODS ARE PROPOSED AS SUBSTITUTION FOR ANY ONE OF THE LIGHTING FIXTURES, THEY MUST BE EQUAL IN DESIGN AND QUALITY, AS DETERMINED BY THE ARCHITECT/ENGINEER. THE DATA SUBMITTED MUST INCLUDE A DESCRIPTION OF THE LIGHTING FIXTURE, LENS, BALLAST, SHEET METAL GAGE, PHOTOMETRIC DATA, ETC.

D. UPON REQUEST OF THE ENGINEER, A SAMPLE OF THE PROPOSED SUBSTITUTION SHALL BE PROVIDED.

E. FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS. PROVIDE 10% ADDITIONAL LAMPS FOR EACH TYPE OF LAMP REQUIRED ON PROJECT AND TURN OVER TO OWNER.

F. ALL LIGHTING FIXTURES SHALL CARRY THE UNDERWRITER'S LABEL OF APPROVAL.

G. FIXTURES SHALL BE FREE OF IMPERFECTIONS, HAN

FIRE PROTECTION NOTES:

A. BUILDING SPRINKLER SYSTEM IS EXISTING. FIRE PROTECTION CONTRACTOR SHALL PROVIDED NEW HEADS, PIPING, ETC., AS REQUIRED TO OBTAIN COVERAGE INDICATED. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF ANY WORK.

B. FIRE PROTECTION SYSTEM SHALL BE A NEW WET SPRINKLER SYSTEM AND SHALL BE DESIGNED PER THE LATEST EDITION OF NFPA 13, FM AND ALL LOCAL AND STATE FIRE CODES.

C. REFER TO NOTES FOR HAZARD CLASSIFICATION AND ALL DESIGN DENSITIES.

D. REFER TO NOTES FOR ADDITIONAL INFORMATION ON SPRINKLER HEADS.

E. MAINTAIN A MINIMUM CLEARANCE ABOVE FINISHED CEILINGS OF 15".

F. AN INSPECTOR'S TEST CONNECTION WITH DRAINS EXISTING IN BUILDING.

G. NEW SPRINKLER PIPING TO BE INSTALLED WITHIN BAR JOISTS WITH MAINS INSTALLED TIGHT TO BOTTOM OF JOISTS. PITCH ALL PIPING FOR PROPER DRAINAGE.

H. NOT USED.

I. FIRE EXTINGUISHERS SHALL BE AS SPECIFIED AND TO BE SET WITH WALL BRACKET. NUMBER AND LOCATIONS OF EXTINGUISHERS TO BE AS DIRECTED BY LOCAL FIRE MARSHAL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

J. ALL SPRINKLER PIPING AND HEADS SHALL BE INSTALLED TO PERMIT THE INSTALLATION OF ALL MECHANICAL AND ELECTRICAL SYSTEMS. SPRINKLER CONTRACTOR SHALL RELOCATE PIPING AND HEADS IF REQUIRED TO ACCOMMODATE MECHANICAL AND ELECTRICAL SYSTEMS.

K. NO WET SPRINKLER PIPING SHALL BE INSTALLED AT LOCATIONS SUBJECT TO FREEZING. PROVIDE GLYCOL LOOP OR DRY SYSTEM FOR AREAS SUBJECT TO FREEZING.

L. THIS DRAWING IS INTENDED TO PROVIDE GENERAL LOCATIONS AND TYPES OF SPRINKLER HEADS, NOT ALL SPRINKLER HEADS ARE INDICATED ON THE DRAWING.

M. SPRINKLER HEADS SHALL BE INSTALLED ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.

N. ALL PIPE PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRE STOPPED TO MAINTAIN FIRE RATING OF WALL.

O. ALL FIRE PROTECTION DRAWINGS, HYDRAULIC CALCULATIONS AND SUPPORTING DOCUMENTATION SHALL BE COMPLETED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED TO LOCAL AUTHORITIES HAVING JURISDICTION AND OWNER'S INSURANCE UNDERWRITER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OF ANY PIPING OR SYSTEM COMPONENTS. REFER TO SPECIFICATIONS FOR INSURANCE UNDERWRITER INFORMATION.

P. COORDINATE INSTALLATION OF SPRINKLER PIPING WITH EQUIPMENT, DUCTWORK, LIGHTS, AND PARTITION LAYOUT. LIGHTS ARE NOT TO BE MOVED, SPRINKLER PIPING SHALL BE ROUTED AROUND LIGHTS/EQUIPMENT AS REQUIRED.

HANGER NOTES:

1. PIPES LARGER THAN 4 IN. RUNNING PARALLEL TO BAR JOIST SHALL BE HUNG FROM TRAPEZE HANGERS SUPPORTED NEARLY EQUALLY BY TWO JOISTS.

2. ONLY ONE PIPE SHALL BE SUPPORTED FROM A SINGLE TRAPEZE HANGER UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

3. HANGERS WITH MORE THAN 150 POUNDS OF LOAD SHOULD BE ATTACHED TO THE JOIST AT A PANEL POINT.

4. COORDINATE ALL HANGER TYPES AND LOCATIONS WITH THE STRUCTURAL ENGINEER OF RECORD.

GENERAL NOTES:

A. CONTRACTORS ARE RESPONSIBLE FOR PROPER FIELD FITTING AND QUANTITY OF WORK. ALL CONTRACTORS SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR FITTING NEW CONSTRUCTION. ALL CONTRACTORS SHALL BE RESPONSIBLE TO REPAIR ANY EXISTING CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION (TO MATCH EXISTING).

B. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL CONDITIONS.

C. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING AND REPAIRING OF MATERIALS AND FINISHES THAT ARE DISTURBED BY THEIR RESPECTIVE TRADES.

D. THE FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS BEFORE STARTING INSTALLATION.

E. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE CONSTRUCTION OF ALL FIRE PROTECTION WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DUMENTS/DRAWINGS.

F. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED.

SPRINKLER NOTES:

A. ALL INTERIOR SPRINKLER WORK, INCLUDING INSTALLATION, TESTING AND SHOP DRAWINGS SHALL BE IN ACCORDANCE WITH NFPA 13.

B. THE CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS AND CALCULATIONS AS REQUIRED BY THE LOCAL AUTHORITIES IF THERE ARE ANY MODIFICATIONS AND/OR CHANGES TO THE LAYOUT. THE "AS BUILTS" AND CALCULATIONS SHALL BE SEALED BY A REGISTERED FIRE PROTECTION ENGINEER, REGISTERED IN THE STATE OF NEW YORK AND SHALL BE SUBMITTED TO THE GOVERNING AUTHORITIES AND THE ARCHITECT/ENGINEER FOR REVIEW AND AND/OR APPROVAL.

C. THE DESIGN CRITERIA (WET TYPE SYSTEM) SHALL BE FOR LIGHT HAZARD OCCUPANCY WITH A DESIGN DENSITY OF 0.10 GPM PER SQ. FT. OVER THE HYDRAULIC MOST REMOTE 1500 SQ.FT., 225 SQ.FT. MAXIMUM SPACING PER SPRINKLER HEAD AND SHALL INCLUDE 100 GPM FOR FIRE HOSE DEMAND.

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ISSUE:
1/12/26 75% BID SET

NOT FOR CONSTRUCTION

SA PROJECT TEAM:
PROJ. ARCH. _____ PRINCIPAL P. Silvestri
JOB CAPT. W. Manhardt DRAFTER _____
INTERIORS S. Shank

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TITLE:

NOTES AND SCHEDULES

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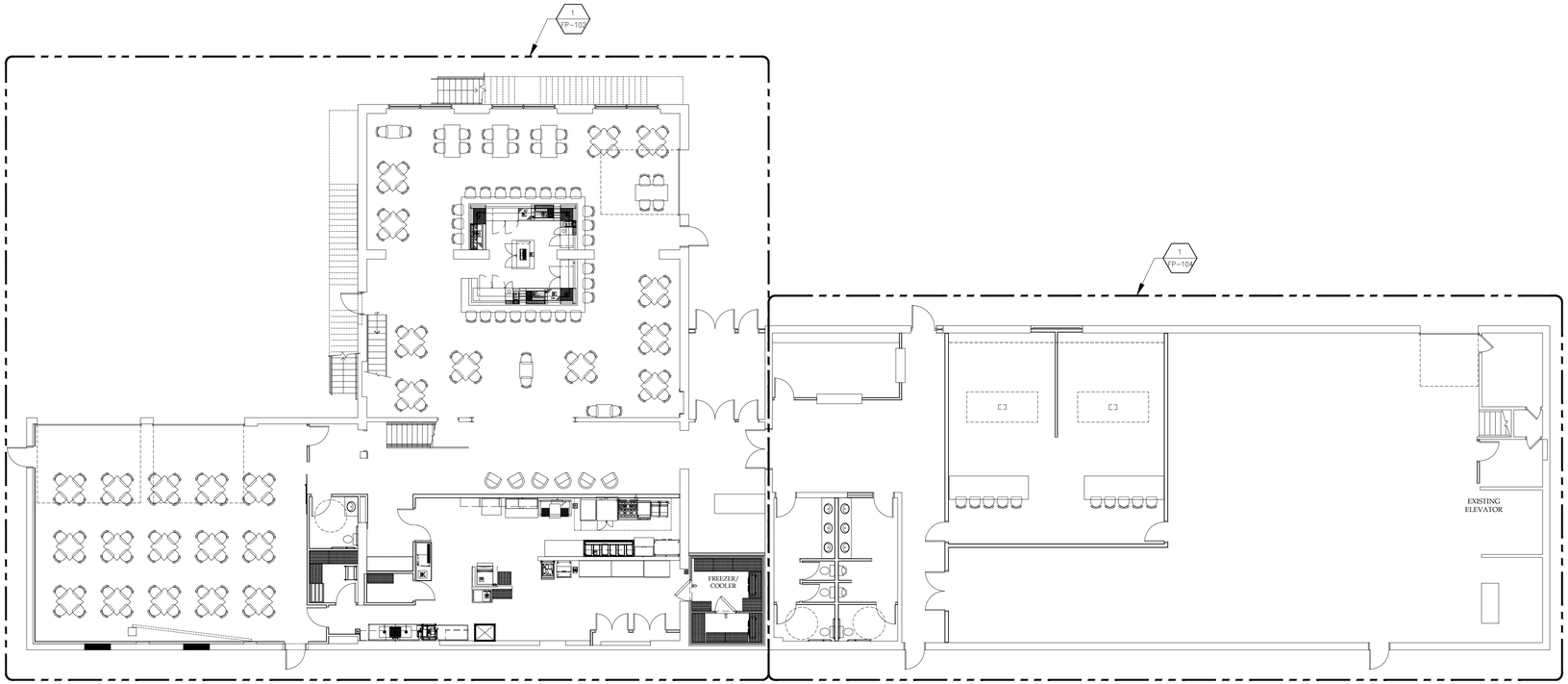
SA JOB #: 22073.03

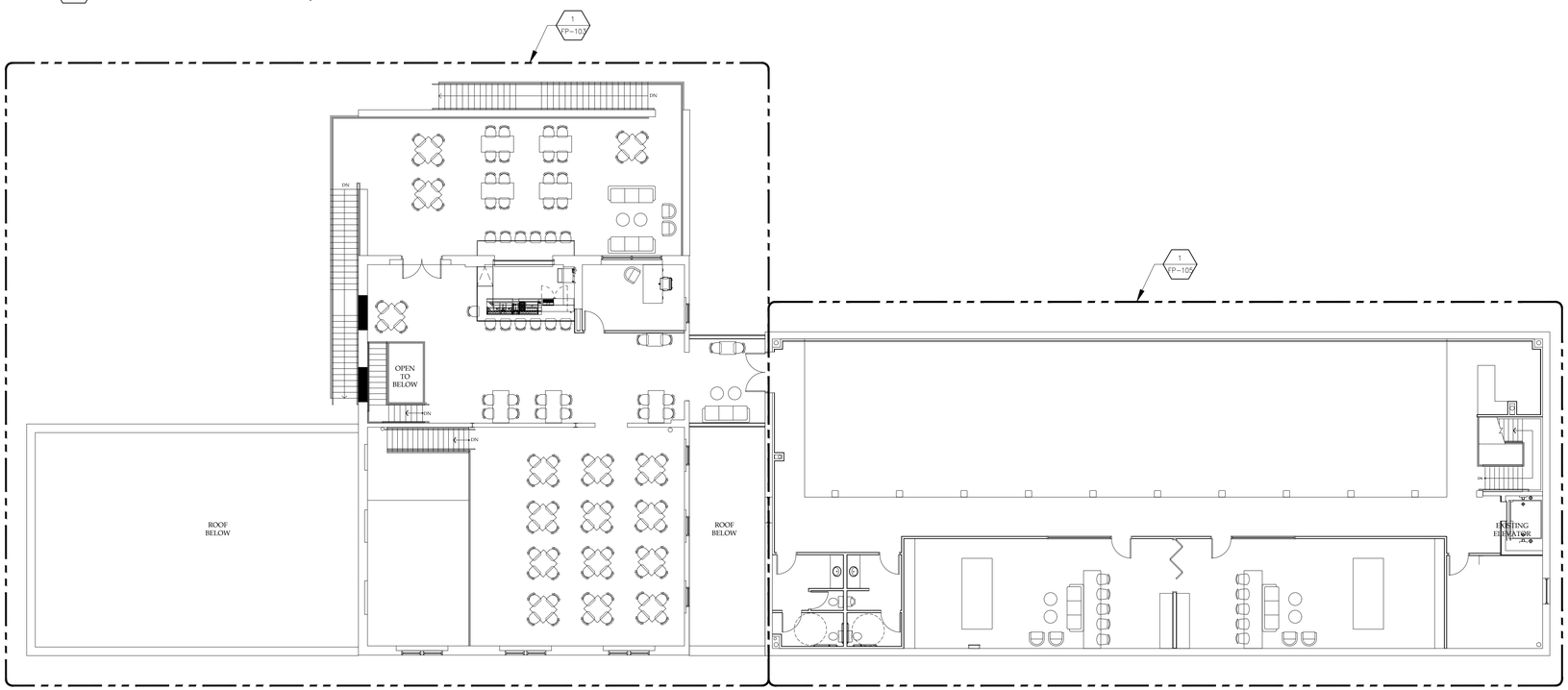
DATE: 1/12/26

DRAWING #: FP-100



1 FP-101 FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH



2 FP-101 SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

NORTH

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OVERALL FIRST AND SECOND FLOOR PLANS

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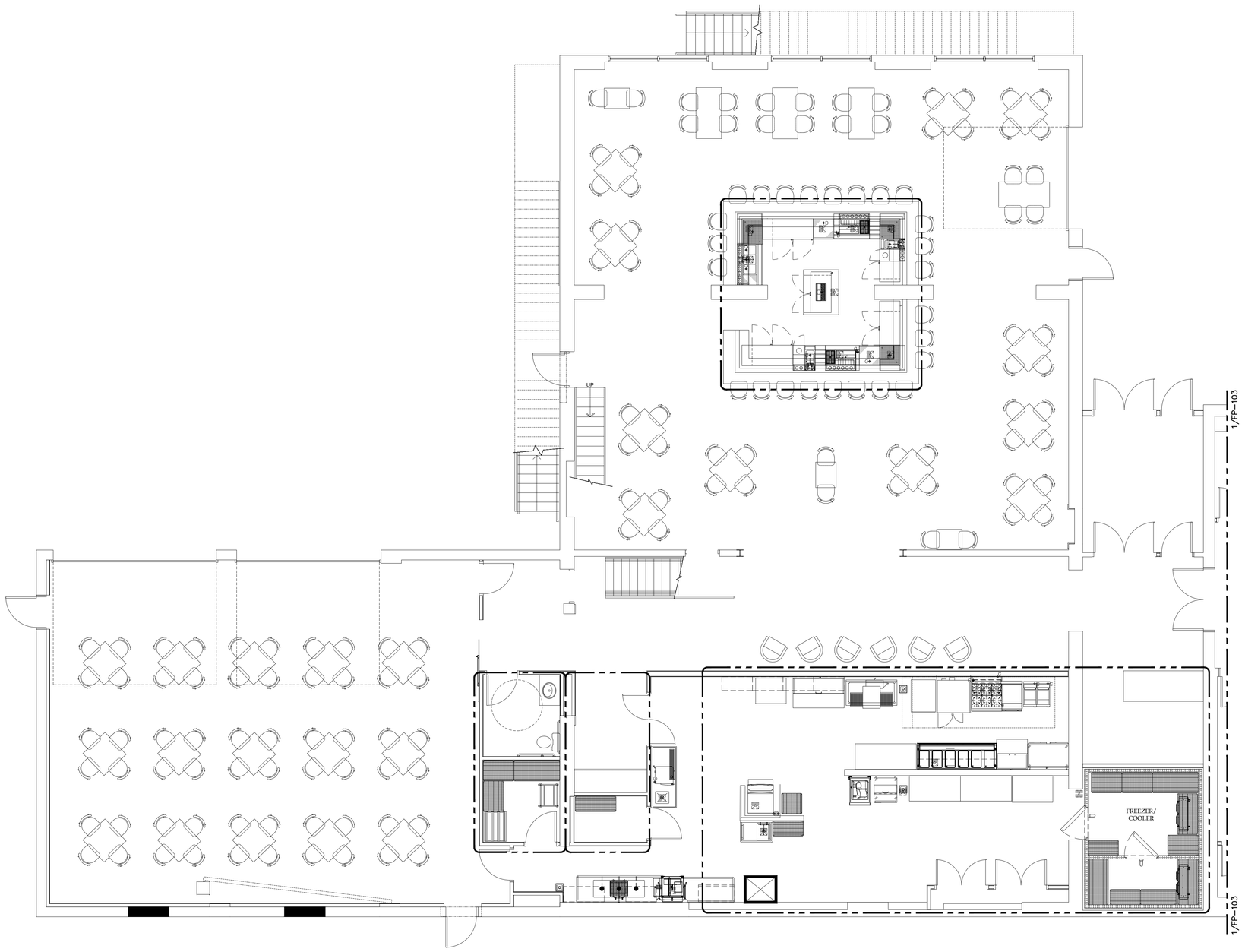
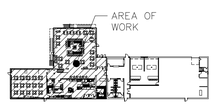


1 FP-102 ENLARGED PARTIAL FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN
SCALE: NONE

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SEAL:

TITLE:
PARTIAL FIRST FLOOR PLAN (LEFT SIDE)

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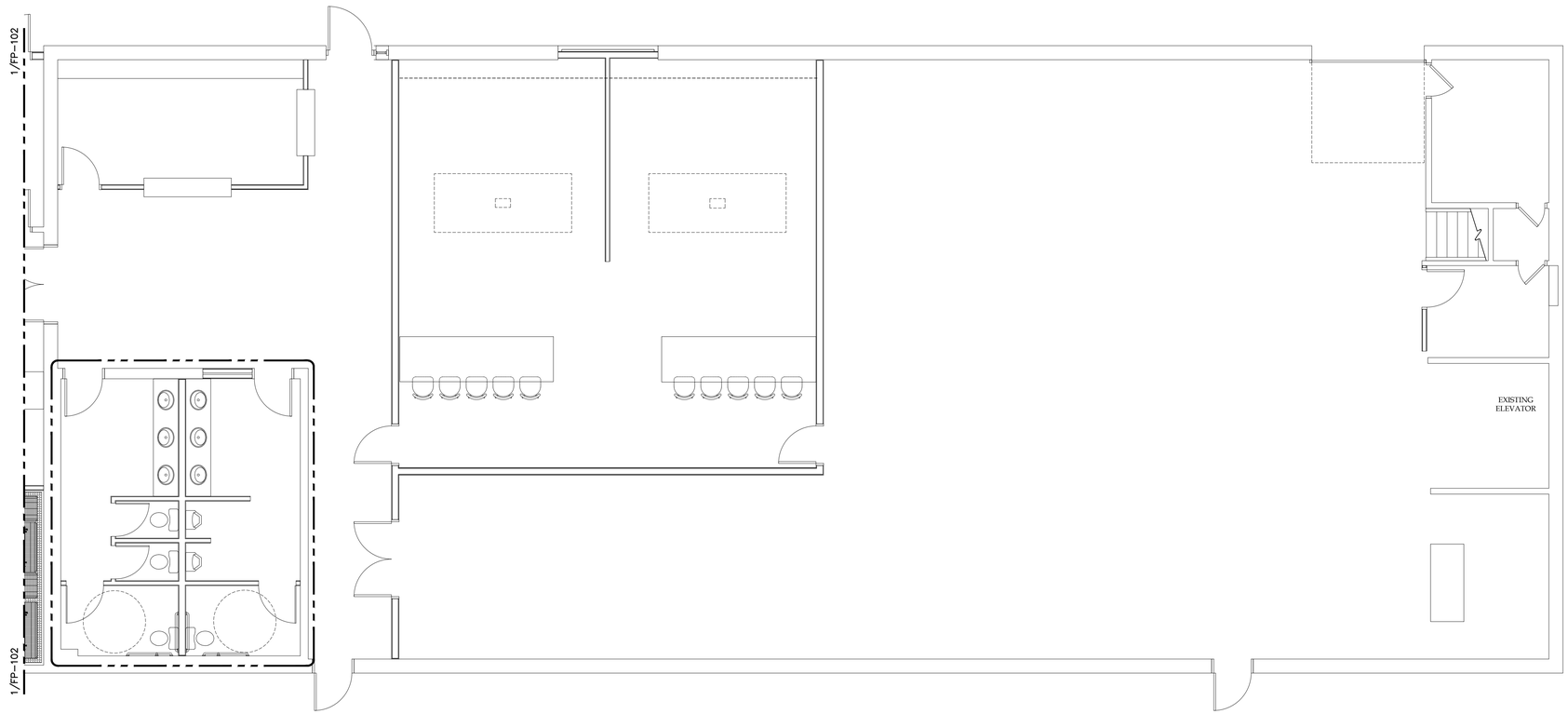
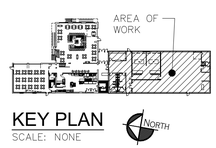


1 FP-103 ENLARGED PARTIAL FIRST FLOOR PLAN SCALE: 3/16" = 1'-0"

NORTH



KEY PLAN
SCALE: NONE

NORTH

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JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
PARTIAL FIRST FLOOR PLAN (RIGHT SIDE)

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SA JOB #: 22073.03
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Phone: (716) 803-8787
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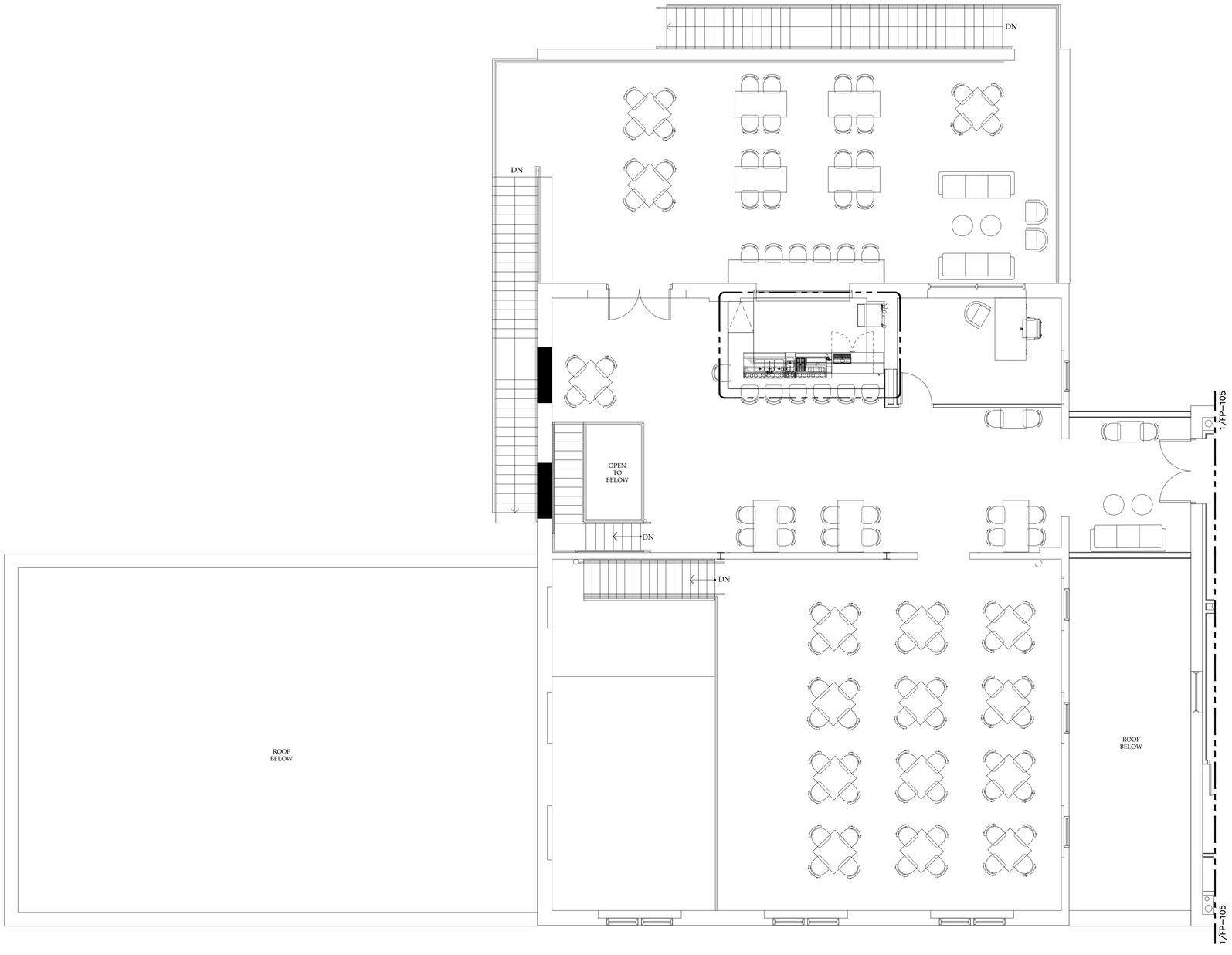

1 FP-104 ENLARGED PARTIAL SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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Buffalo Puttz
201 Ganson Street,
Buffalo, NY 14202

ISSUE:
1/12/26 75% BID SET

NOT FOR CONSTRUCTION

SA PROJECT TEAM:
PRINCIPAL P. Silvestri
PROJ. ARCH. _____
DRAFTER _____
JOB CAPT. W. Manhardt
INTERIORS S. Shank

SEAL:

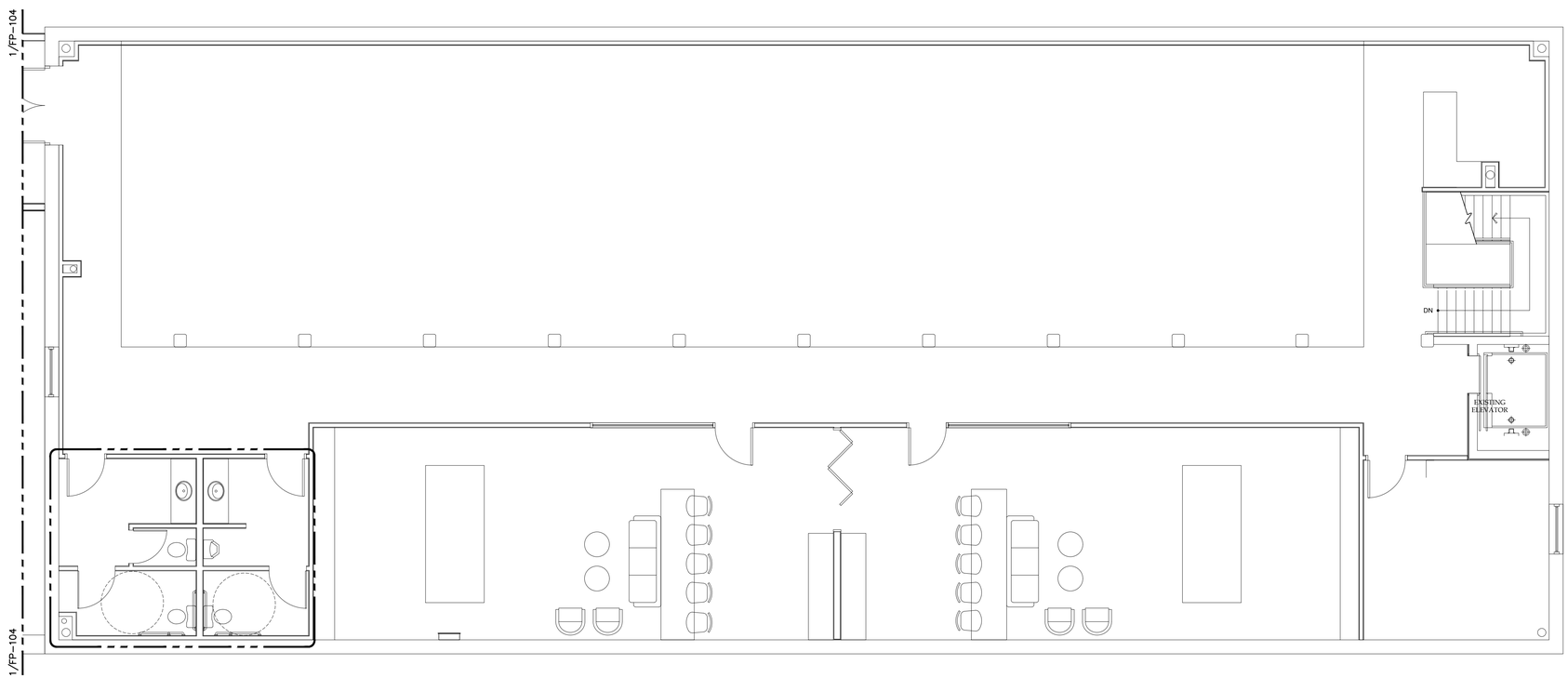
TITLE:
PARTIAL SECOND FLOOR PLAN (LEFT SIDE)

SILVESTRI
ARCHITECTS · PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 22073.03
DATE: 1/12/26

DRAWING #: FP-104

KROMAC Design Inc.
MECHANICAL-ELECTRICAL ENGINEERING
10225 Main Street, Victoria Park, Suite 10B
Clarence, New York 14031
Phone: (716) 803-8787
Email: info@kromacdesign.com
Project # 24-11-19



1 FP-105 ENLARGED PARTIAL SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN
SCALE: NONE

NORTH

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PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. W. Manhardt INTERIORS S. Shank

SEAL:

TITLE:
PARTIAL SECOND FLOOR PLAN (RIGHT SIDE)

SILVESTRI
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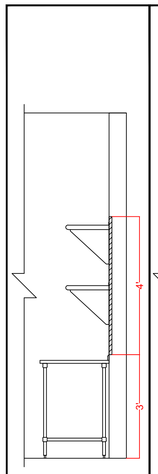
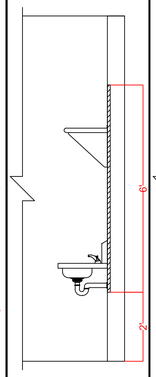
BUFFALO PUTTZ



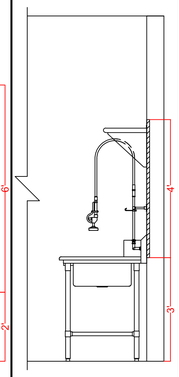
1 WALL SHELVES

WALL BLOCKING DETAIL NTS



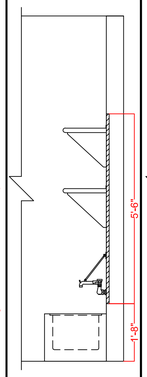
2 HAND SINK

WALL BLOCKING DETAIL NTS



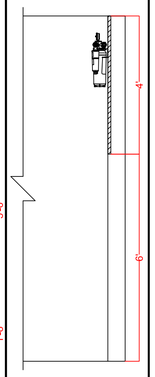
3 PRE-RINSE FAUCET

WALL BLOCKING DETAIL NTS



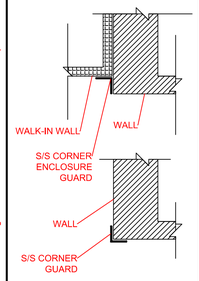
4 MOP SINK/SHELVES

WALL BLOCKING DETAIL NTS



5 WATER FILTER

WALL BLOCKING DETAIL NTS

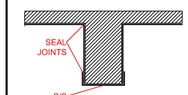


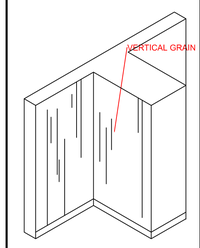
6 S/S CORNER GUARDS & ENCLOSURE STRIPS

NOT TO SCALE

VERIFY SCOPE AND LOCATIONS W/ OWNER AND ARCHITECT

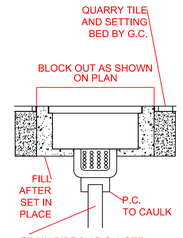
ADHERE S/S FLASHING TO WALL W/ FULL BED OF HEAT RESISTANT MASTIC. VOIDS AND FLEXING OF METAL ARE NOT ACCEPTABLE.





7 S/S WALL PANELS

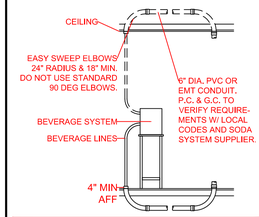
NOT TO SCALE



DRAIN PIPE BY P.C. NOTE: SEE PLUMBING DRAWING FOR DRAIN LOCATION. FOR SINGLE DRAIN TROUGHS DRAIN TO BE DIRECTLY IN CENTER OF PAN.

8 TROUGH/FLOOR SINK DETAIL

PLUMBING / NOT TO SCALE

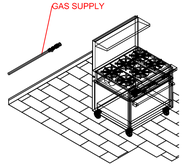


CONDUIT REQUIREMENTS:
1. 6" OR 8" PVC OR EMT CONDUIT. P.C./G.C. TO VERIFY SIZE WITH BEVERAGE SUPPLIER.
2. 4" MIN. TO 6" MAX. STUB-UP AFF.
3. 24" RADIUS (18" MIN.) RADIUS. EASY SWEEP ELBOWS ONLY.
4. CONDUIT MUST BE WATER TIGHT AND PITCHED BACK TO BEVERAGE SYSTEM (1/8" PER FOOT SLOPE).

VERIFY BEVERAGE CONDUIT TO RUN OVERHEAD OR BELOW.

9 BEVERAGE CONDUIT

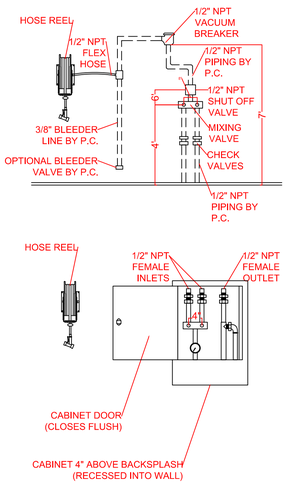
SPECIAL CONDITIONS / NOT TO SCALE



A RESTRAINT CABLE TO BE INSTALLED TO PREVENT GAS HOSE FROM BEING PULLED LOOSE FROM WALL ON MOBILE COOKING EQUIPMENT. ADJUST CABLE TO SHORTER LENGTH THAN GAS HOSE. INSTALL OTHER END OF RESTRAINT CABLE TO MOBILE COOKING EQUIPMENT.

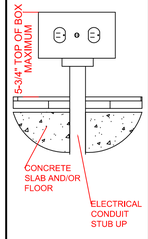
10 QUICK DISCONNECT GAS SUPPLY DETAIL

PLUMBING / NOT TO SCALE



11 HOSE REEL DETAIL

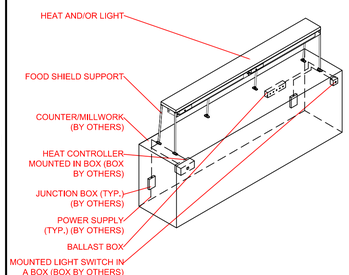
PLUMBING / NOT TO SCALE



12 FLOOR MOUNTED RECEPTACLE

ELECTRIC / NOT TO SCALE

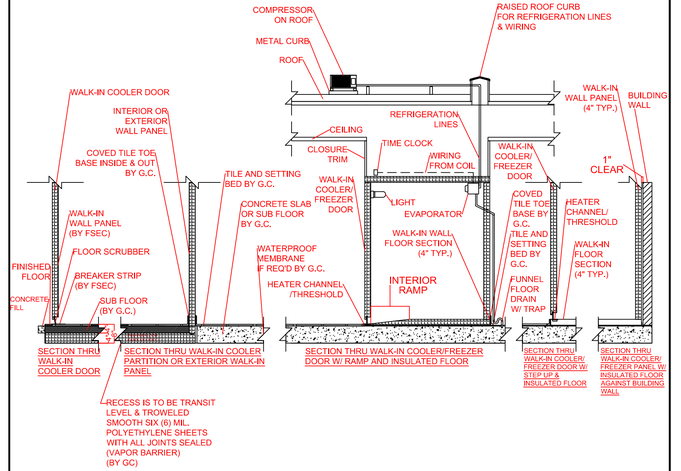
NOTE: E.C. TO IDENTIFY PROPER LEG OF FOOD SHIELD FOR THE LIGHT AND/OR HEAT WIRING PRIOR TO WIRING TO SWITCH AND/OR CONTROLLER.



FOR GENERAL REFERENCE ONLY. REFER TO MANUFACTURER SPECIFICATION/ INSTALLATION DETAILS.

13 SNEEZE GUARD / HEAT LAMP AND/OR LIGHT WIRING DETAIL

ELECTRIC / NOT TO SCALE



RECESS IS TO BE TRANSIT LEVEL & TROWELED SMOOTH SIX (6) MIL. POLYETHYLENE SHEETS WITH ALL JOINTS SEALED (VAPOR BARRIER) (BY GC)

THESE ARE TYPICAL WALK-IN CROSS SECTIONS FOR WALK-INS INSTALLED WITHOUT A DEPRESSED SLAB. PLEASE NOTE THAT THESE CROSS SECTIONS ARE FOR REFERENCE ONLY AND MAY NOT BE APPLICABLE FOR THIS PARTICULAR PROJECT. PLEASE SEE FINAL APPROVED MANUFACTURERS DRAWINGS.

14 WALK-IN DETAIL: WALK-IN PLACED ATOP SLAB/SUB FLOOR W/ TILE FLOOR IN WALK-IN COOLER AND/OR TILE TERMINATING INTO WALK-IN PANEL

SPECIAL CONDITIONS / NOT TO SCALE

PLEASE NOTE THAT THE DETAILS SHOWN ON THESE DETAIL DRAWINGS ARE FOR GENERAL REFERENCE ONLY AND MAY NOT BE APPLICABLE FOR THIS PARTICULAR PROJECT.

DRAWING CONTENTS

FSE-1.0	COVER SHEET
FSE-2.0	EQUIPMENT PLAN
FSE-3.0	EQUIPMENT SCHEDULE
FSE-4.0	ELECTRICAL ROUGH-INS
FSE-5.0	PLUMBING ROUGH-INS
FSE-6.0	SPECIAL CONDITIONS
FSE-7.0	ELEVATIONS

ABBREVIATION KEY

SYM	DESCRIPTION	SYM	DESCRIPTION
C	ELECTRICAL	FS	FLOOR SINK
CW	COLD WATER	FD	FLOOR DRAIN
HW	HOT WATER	C.O.	CONVEINENCE OUTLET
ID	INDIRECT WASTE	F.O.	FLOOR OUTLET
SAN	SANITARY WASTE	BTC	BRANCH TO CONNECTION
S/S	STAINLESS STEEL		

CONNECTION LEGEND

SYM	DESCRIPTION	SYM	DESCRIPTION
	ELECTRICAL		PLUMBING
	CEILING OUTLET		NATURAL GAS
	DUPLEX FLOOR OUTLET		LIQUID PROPANE
	QUAD FLOOR OUTLET		HOT WATER
	SINGLE-PLEX OUTLET		COLD WATER
	DUPLEX OUTLET		DRAIN
	QUADPLEX OUTLET		SPECIAL CONDITIONS
	JUNCTION BOX		BLOCKING
	ELECTRICAL CONDUIT		BEER LINE CONDUIT
	FLEX FEEDER		SODA LINE CONDUIT
			DATA LINES

HRI
COMMERCIAL FOOD SERVICE
2630 CHERRY STREET
ERIE, PA 16508
814-453-4747

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NO	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			

NO	DESCRIPTION	DATE
1	COVER SHEET	12/19/2025

PROJECT: BUFFALO PUTTZ

LOCATION: 201 GANSON ST., BUFFALO, NY 14203

DRAWN BY: GR

DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-1.0

SCALE: NTS

BUFFALO PUTTZ

GENERAL NOTES

1) ROUGH IN WHERE SHOWN. ALLOWANCES HAVE BEEN MADE FOR VALVES, TRAPS, ETC. LINES SHOWN OUT OF FLOOR TO BE STUBBED UP APPROX 3" ABOVE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED. DO NOT RUN ANY EXPOSED LINES.

2) ROUGH IN INFORMATION IS FOR FOOD SERVICE EQUIPMENT ONLY AND MUST BE USED IN CONJUNCTION WITH THE PROJECT'S FINAL WORKING DRAWINGS. DEVIATIONS FROM THE MECHANICAL WORK SHOWN ON THESE PLANS AND EXECUTION OF SUCH WORK IS WITHOUT RESPONSIBILITY OF HRI COMMERCIAL FOOD SERVICE.

3) ALL DATA AND ROUGH INS MUST BE REVIEWED BY OWNER AND/OR ARCHITECT BEING INCORPORATED INTO THE BUILDING MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES.

4) REFER TO EQUIPMENT SPECIFICATION BOOKLET FOR ADDITIONAL INFORMATION ON SUPPLIED KITCHEN EQUIPMENT.

5) ALL ROUGH INS AND FINAL CONNECTIONS TO BE FURNISHED AND INSTALLED BY OTHER THAN KITCHEN EQUIPMENT CONTRACTOR. ADDITIONAL ROUGH-INS SHOWN OR NOT SHOWN ON THESE DRAWINGS FOR EQUIPMENT BEING RELOCATED, REUTILIZE, OR SUPPLIED BY OTHERS WILL HAVE TO BE VERIFIED BY CORRESPONDING PRIME CONTRACTOR (EC, PC, MC, GC) PRIOR TO ROUGH INS BEING INSTALLED. HRI COMMERCIAL FOOD SERVICE WILL NOT BE RESPONSIBLE FOR THESE ROUGH INS.

6) OWNER AND/OR ARCHITECT IS TO SUBMIT THIS PLAN SET TO LOCAL HEALTH DEPARTMENT FOR APPROVAL UNLESS OTHERWISE SPECIFIED.

7) ALL EQUIPMENT, PER THIS SET OF PLANS, BY KEC, HAS THE UNDERWRITERS' LABORATORIES AND NATIONAL SANITATION FOUNDATION SEALS OF APPROVAL.

8) ALL PLUMBING, ELECTRICAL, AND VENTILATION WORK, INCLUDING "ROUGH IN" AND "FINAL CONNECTIONS" TO THE EQUIPMENT, IS TO BE PERFORMED BY OTHERS. IT IS NOT PART OF KEC CONTRACT UNLESS OTHERWISE SPECIFIED.

9) TO EXPEDITE AND ENSURE PROPER INSTALLATION OF COOKING EQUIPMENT, "ALL FINAL CONNECTIONS" ARE TO BE PERFORMED BY OTHERS AT THE SAME TIME THE KEC IS SETTING THE EQUIPMENT IN PLACE.

10) IF CONTRACTED, KEC SHALL FURNISH AND INSTALL ALL NECESSARY REFRIGERATION LINES FROM THE COMPRESSORS TO THE EVAPORATOR COILS IN THE WALK-IN BOXES. REFER TO MANUFACTURER'S FINAL APPROVED SPECIFICATIONS & DRAWINGS.

11) CONVENIENCE OUTLETS AND AREA FLOOR DRAINS TO BE LOCATED AND PROVIDED BY THE RESPECTIVE TRADES AND IN ACCORDANCE WITH LOCAL CODES.

12) ALL ELECTRICAL LABELED AS "C.O." ARE 120V CONVENIENCE OUTLETS AND SHOULD BE LOCATED JUST ABOVE TABLE HEIGHT AT 44" AFF. IF THERE ARE NO TABLES, THEN OUTLETS ARE TO BE LOCATED AT 18" AFF.

13) ALL DIMENSIONS ARE TAKEN FROM FINISHED FLOORS, FINISHED WALLS, OR COLUMN CENTER LINES. ALL ROUGH IN DIMENSIONS ARE SHOWN TO THE CENTER LINE OF THE CONNECTION.

14) GAS MAIN TO COOKING EQUIPMENT REQUIRES A FUEL SHUT OFF VALVE TO BE SUPPLIED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.

15) FOOD SERVICE EQUIPMENT SHALL BE INSTALLED SO THAT EQUIPMENT CONFORMS TO AT LEAST ONE OF THE FOLLOWING:
A) MOVEABLE EQUIPMENT IS PROVIDED WITH CASTERS (AND RESTRAINING DEVICES AS REQUIRED).

B) FIXED EQUIPMENT IS SEALED TO WALLS, FLOORS, OR ADJACENT EQUIPMENT.

C) FIXED FLOOR-MOUNTED EQUIPMENT IS INSTALLED WITH 6" CLEARANCE FROM THE FLOOR.

16) KITCHEN EQUIPMENT CONTRACTOR TO FURNISH GAS COOKING EQUIPMENT WITH PRESSURE REGULATORS PER MANUFACTURERS SPECIFICATIONS AND LOCAL CODES.

17) ALL INDIRECT DRAIN LINES ARE TO BE PIPED TO FLOOR DRAINS AND/OR FUNNELS BY PLUMBING CONTRACTOR AND AIR GAPPED AS PER LOCAL CODE.

18) WASTE ON THREE COMPARTMENT SINKS TO BE MANIFOLDED TO GREASE TRAP BY PLUMBING CONTRACTOR. GREASE TRAP TO BE SIZED AND SUPPLIED BY PLUMBING CONTRACTOR AS PER LOCAL CODE.

19) PLUMBING CONTRACTOR TO FURNISH AND INSTALL HOT AND COLD WATER LINE CHECK VALVES AT ALL SPRAY SYSTEM UNIT MIXING VALVES AND ANY APPLICABLE DRAIN TEMPERING KITS UNLESS OTHERWISE NOTED.

20) GC AND/OR MILLWORK PROVIDER TO FURNISH AND INSTALL RUBBER GROMMETS FOR ALL COUNTER TOP CUT OUTS MADE FOR MECHANICAL CONNECTIONS AS REQUIRED.

21) GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE WALL BLOCKING AT NECESSARY LOCATIONS STARTING AT 54" - 72" AFF. WOOD IS THE PREFERRED MATERIAL FOR BLOCKING.

22) ALL MEASUREMENTS/DIMENSIONS OF LAYOUTS ARE TO BE VERIFIED AND APPROVED BY AN ARCHITECT OR GENERAL CONTRACTOR.

23) GENERAL CONTRACTOR OR OWNER TO PROVIDE AND COORDINATE WITH KEC (AS REQUIRED) ALL BUILDING OPENINGS AND CONDITIONS (REFER TO PLANS FOR LOCATIONS, SIZES AND DETAILS), INCLUDING BUT NOT LIMITED TO:
A. SMOOTH AND LEVEL FLOORS AND/OR RECESSES (AS APPLICABLE) FOR WALK IN COOLERS AND FREEZERS AND INSTALLATION OF FLOOR TROUGHS;
B. OPENINGS FOR INSTALLATION OF CONTROL PANELS;
C. OPENINGS THROUGH FINISHED CEILINGS AND (IF REQUIRED) THROUGH ROOF TO SERVICE ROOF-MOUNTED FOOD SERVICE EQUIPMENT;
D. STRUCTURAL SUPPORT TO HANG HOODS AND OTHER CEILING SUPPORTED EQUIPMENT;
E. PENETRATIONS THROUGH STRUCTURE AND CHASES (PVC OR EMT SLEEVE) FOR REMOTE REFRIGERATION LINES AND BEVERAGE LINES. ALL PENETRATIONS THROUGH STRUCTURE TO BE SEALED BY GC AS REQUIRED BY CODE.

HRI WILL NOT BE RESPONSIBLE FOR CORRECTIONS TO MEET TRANSIT LEVEL CONDITIONS IN NEW OR EXISTING FACILITIES.

24) IT IS ASSUMED THAT DRAWINGS REFLECT FINISHED WALL DIMENSIONS LABELED AS CRITICAL HOLD IN SPECIAL CONDITIONS SHEET, WALL DIMENSIONS WILL NOT SHRINK DUE TO ADDED FINISHES (DRY WALL, GROUT, TILE, ETC.)

25) IF CONTRACTED , KEC SHALL PROVIDE REMOVABLE ENCLOSURE PANELS FROM THE TOP OF THE WALK-IN COOLER(S) AND/OR FREEZER(S) AND EXHAUST HOOD TO FINISHED CEILING. CEILING HEIGHTS TO BE VERIFIED PRIOR TO FABRICATION. REFER TO MANUFACTURER'S FINAL APPROVED SPECIFICATIONS & DRAWINGS.

26) GC TO ENSURE ALL EQUIPMENT RUNS ABOVE FINISHED CEILING DO NOT INTERFERE WITH ANY CEILING HUNG EQUIPMENT SPECIFIED AND SHOWN ON THESE DRAWINGS.

27) ARCHITECTURAL BACKGROUNDS GIVEN TO HRI FOR DESIGN PLANNING SHOULD INCLUDE ANY STRUCTURAL BEAMS, COLUMNS, CHASES, AND WALLS. STRUCTURAL CHANGES ARE TO BE COMMUNICATED TO HRI. IF CHANGES ARE NOT COMMUNICATED, HRI WILL NOT BE RESPONSIBLE FOR MODIFICATIONS REQUIRED TO ACCOMMODATE STRUCTURAL ELEMENTS THAT ARE BUILT IF NOT SHOWN ON DRAWINGS GIVEN FOR COMMERCIAL KITCHEN DESIGN.

28) UTILITY SUPPLY FOR ANY BUILDING IS TO BE IDENTIFIED AND PROVIDED BY THE APPROPRIATE CONTRACTOR ON THE PROJECT.

GENERAL SPECIAL CONDITIONS NOTES

1) ARCHITECT AND GC TO ENSURE ALL WALLS ARE PROPERLY REINFORCED TO SUPPORT WALL MOUNTED EQUIPMENT., GC TO PROVIDE AND INSTALL ALL WALL BLOCKING, UNLESS OTHERWISE NOTED.

2) WALL BLOCKING TO BE 16 GA, GALVANIZED METAL. ALL WALL BLOCKING SHALL BE CONCEALED AND SECURELY ATTACHED TO FRAMING WITHIN WALLS (BEHIND DRY WALL AND/OR FINISHES). WALL BLOCKING LENGTHS SHOWN ARE MINIMUMS. GC TO EXTEND WALL BLOCKING TO NEXT STUD IN EACH DIRECTION IN STUD WALL CONSTRUCTION. ANY SITE-SPECIFIC CONDITIONS THAT REQUIRE DEVIATION FROM THESE INSTRUCTIONS, AND NOT COVERED IN PLAN NOTES, MUST BE COORDINATED WITH KEC PRIOR TO COMMENCEMENT OF WORK. GC TO USE METAL STUDS.

3) GC SHALL ENSURE ALL WALLS/CEILINGS ARE PROPERLY REINFORCED TO SUPPORT ALL WALL AND/OR CEILING SUPPORTED EQUIPMENT. GC TO PROVIDE INTERMEDIATE SUPPORTS TO BUILDING STRUCTURE ABOVE AS REQUIRED FOR EXHAUST HOODS.

4) GC SHALL VERIFY INSTALLATION HEIGHT OF FINISHED CEILING WITH FOOD SERVICE EQUIPMENT BELOW AS SHOWN.

5) GC SHALL PROVIDE HOLES, AND SLEEVES THROUGH ROOF, FLOOR(S), CEILING(S) AND WALLS FOR SODA LINES, BEER LINES, REFRIGERATION LINES AND UTILITIES. GC TO SEAL ALL PENETRATIONS IN ACCORDANCE WITH LOCAL FIRE AND BUILDING CODES.

6) GC SHALL PROVIDE 6" OR 8" DIAMETER CONDUIT AND CORE DRILLING TO RUN SODA AND BEER LINES (PROVIDED BY VENDOR) FROM SODA AND BEER SYSTEM (S) TO POINT(S) SHOWN FOR DISPENSING HEADS. ALL BENDS TO BE EASY SWEEPS (18" (450mm) RADIUS MIN.), CONDUIT TO RUN ON UNDERSIDE OF SLAB OR ABOVE FINISHED CEILING AS INDICATED AND SUPPORTED AS REQUIRED. HAVE ONLY ONE(1) 18" MINIMUM RADIUS SWEEP BEND(45° OR 90°) AT EACH END, CONDUIT TO BE CONSTRUCTED WITH INTERNALLY SMOOTH, LEAK TIGHT JOINTS. ALSO AN IN-LINE PULL BOX, AT LEAST 12" X 30" SHOULD BE PROVIDED FOR ANY STRAIGHT RUN IN EXCESS OF 100 FEET WITH AN ADDITIONAL BOX PROVIDED FOR EVERY 100 FEET OF RUN. A DIRECTIONAL CHANGE PULL BOX, AT LEAST 30" SQUARE SHOULD BE USED IN SITUATIONS WHERE MORE THAN TWO (2) 90° TURNS ARE REQUIRED IN A RUN. PROVIDE CARLON PV-DUIT PLUS SCHEDULE 40 CONDUIT AND FITTINGS, OR APPROVED EQUAL. PLUMBING PVC OR CAST IRON IS NOT ACCEPTABLE BUT EMT OR RIGID ELECTRICAL CONDUIT IS ACCEPTABLE IN THOSE JURISDICTIONS WHERE PVC IS NOT ACCEPTABLE. SEE TYPICAL CONDUIT DETAIL.

7) GC SHALL PROVIDE 2" (50 mm) DIAMETER CONDUIT (PVC, EMT OR OTHER MATERIAL REQUIRED BY CODE) FOR RUN OF COMPUTER GRADE CONDUIT. ALL BENDS TO BE EASY SWEEPS (18" (450mm) RADIUS MIN.). AS REQUIRED BY OWNER.

8) GC SHALL PROVIDE ALL CLEAR OPENINGS IN WALLS TO RECEIVE FOOD SERVICE EQUIPMENT. ALLOW 1/2" MINIMUM CLEARANCE ON EACH SIDE AND TOP(S) OF EQUIPMENT. GC TO COORDINATE WITH KEC ON CONSTRUCTION AND DELIVERY SCHEDULES.

9) REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL REFRIGERATION SUPPLY AND RETURN LINES. GENERAL CONTRACTOR TO COORDINATE WITH THE KEC AND REFRIGERATION CONTRACTORS.

10) WHEN SPECIFIED AND PART OF KEC SCOPE/CONTRACT, CORNER GUARDS TO BE 18-20 GUAGE S/S, 2" x 2" x 48", AND SECURED IN THE FOLLOWING MANNER:
A. CORNER GUARDS SECURED TO S/S SURFACE ARE SECURED WITH "POP" RIVETS AND EDGES SEALED WITH SILICONE. CORNER GUARDS TO BEGIN AT TOP OF SANITARY COVED MOLDING AND EXTEND TO A MINIMUM OF 48" AFF.
B. CORNER GUARDS SECURED TO FRP SURFACE ARE TO BE SECURED WITH CONTACT CEMENT AND EDGES SEALED WITH SILICONE.
C. CORNER GUARDS ARE TO BE SUPPLIED AND INSTALLED BY KEC.
D. GENERAL CONTRACTOR TO PROVIDE TRUE, CONSISTENT 90°ANGLES TO FACILITATE CORNER GUARD INSTALLATION.

11) WHEN SPECIFIED, S/S WALL CLADDING SHALL BE SECURED TO WALL SURFACE WITH CONTACT CEMENT AND EDGES ARE SILICONED. IF CONTRACTED, S/S WALL CLADDING AND STRIPS TO BE SUPPLIED AND INSTALLED BY KEC.

12) WHEN WALK-IN DEPRESSION IS SPECIFIED, GC TO PROVIDE DEPRESSION FROM ROUGH SLAB TO TOP OF FINISHED FLOOR TO RECEIVE WALK-IN BOX PANELS. SEE WALK-IN REFRIGERATOR & FREEZER DETAIL.

13) GC TO PROVIDE DEPRESSION FROM ROUGH GRATING. SEE FLOOR TROUGH AND GRATING DETAIL.

14) MANUFACTURER RECOMMENDS 750 CFM PER HP FOR AIR COOLED COMPRESSORS AND 250 CFM PER HP FOR WATER COOLED COMPRESSORS FOR PROPER VENTILATION.

15) GC TO PROVIDE CORE DRILLING AND THERMAL BARRIER AS REQUIRED FOR RECESSED COOLER FLOORING.

16) GC TO PROVIDE CORE DRILLED PENETRATIONS IN FLOOR OR WALL SUFFICIENT TO ACCESS REFRIGERATION TUBING AND POTENTIAL DRAIN LINES FOR EACH REFRIGERATION ITEM. GC TO PROVIDE FIRE STOP SEALANT AS REQ'D BY LOCAL CODE. ROOF PENETRATIONS ARE TO BE THROUGH APPROVED PITCH POCKETS. (COORDINATE W/ ROOFING CONTRACTOR) SUBMIT REFRIGERATION PIPING SCHEMATIC TO REFRIGERATION RACK MFG. FOR REVIEW PRIOR TO ANY WORK COMMENCING ON SITE. NOTE : PROVIDE FOR "P" TRAPS IN OIL RETURN PIPING LAYOUT. ALL LINES TO BE INSULATED WITH "ARMA-FLEX" OR EQUAL INSULATION.

17) GC TO SUPPLY & INSTALL ALL ROOF CURBS & PLATFORMS IN ACCORDANCE WITH REFRIGERATION MANUFACTURER'S PRINTED INSTRUCTIONS.

18) GC TO COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH CONDENSING UNIT EQUIPMENT SUPPLIER, ARCHITECT AND OWNER.

19) GC TO VERIFY WITH ARCHITECT AND STRUCTURAL ENGINEER THAT THE ROOF WILL SUPPORT THE CONDENSING UNITS IN THE FINAL LOCATIONS.

20) IF THE CONDENSING UNITS ARE LOCATED MORE THAN 25' AWAY FROM THE WALK-IN BOX, GC TO NOTIFY SUPPLIER OF CONDENSING UNIT EQUIPMENT SUPPLIER PRIOR TO INSTALLATION OF ROOF CURBS, PITCH POCKETS AND CONDENSING UNITS.

21) GC TO VERIFY REFRIGERATION LINE RUN QUANTITY & DIRECTION WITH OWNER/VENDOR. REFRIGERATION RUNS & STUBS IF DRAWN ARE FOR REFERENCE ONLY. KEC IS NOT RESPONSIBLE FOR ROUTE, QUANTITY OR LOCATION.

22) DRY STORAGE SHOULD NOT BE LOCATED UNDERNEATH ANY EXPOSED WATER AND SEWER PIPES TO PREVENT WATER LEAKS DAMAGING FOOD ON SHELVES.

GENERAL DEMOLITION NOTES

1) PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE PLUMBING DISCONNECT OF FSE.

2) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE ELECTRICAL DISCONNECT OF FSE.

3) THE FSE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF KITCHEN EQUIPMENT.

4) THE HVAC CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF THE KITCHEN EXHAUST HOOD AND DUCTWORK.

5) FSE CONTRACTOR HAS BID THE AMOUNT TO INCLUDE THE COST TO DISPOSE OF ALL FSE SCHEDULED TO BE REMOVED. THE OWNER HAS THE OPTION TO RETAIN THE EQUIPMENT BUT IT WON'T BE DETERMINED UNTIL AFTER BIDS ARE RECEIVED AND WORK IS SLATED TO BEGIN.

6) FSE REMOVAL TO TAKE PLACE EITHER THROUGH EXISTING DOOR OPENINGS OR THE NEW WALL OPENING BEING CUT TO ACCESS THE NEW WALK-IN COOLER/FREEZER.

7) G.C. TO PROVIDE APPROPRIATE CONTRACTOR RESPONSIBLE FOR THE REMOVAL OF TILE, CONCRETE, FLOORING, ETC, ON TOP OF THE RECESSED WALK-IN COOLER FLOOR PANELS (IF APPLICABLE).

GENERAL OUT-OF-STATE PROJECT NOTES

BY PURCHASING EQUIPMENT FROM US FOR YOUR COMMERCIAL KITCHEN PROJECT, YOU ACKNOWLEDGE AND AGREE TO THE FOLLOWING:

1) INSTALLATION RESPONSIBILITY: IT IS THE SOLE RESPONSIBILITY FOR THE CUSTOMER TO ARRANGE FOR THE INSTALLATION OF THE PURCHASED EQUIPMENT. HRI COMMERCIAL FOOD SERVICE SHALL NOT BE LIABLE FOR ANY DAMAGES, INJURIES, OR LOSSES RESULTING FROM IMPROPER INSTALLATION, MISUSE, OR MISHANDLING OF THE EQUIPMENT.

2) COMPLIANCE WITH LOCAL REGULATIONS: THE CUSTOMER IS RESPONSIBLE FOR ENSURING THAT THE INSTALLATION AND USE OF THE EQUIPMENT COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING BUT NOT LIMITED TO BUILDING CODES, FIRE SAFETY REGULATIONS, AND HEALTH DEPARTMENT REGULATIONS.

3) LIMITATION OF LIABILITY: IN NO EVENT SHALL HRI COMMERCIAL FOOD SERVICE BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATED TO THE PURCHASE, DELIVERY, OR USE OF THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOSS OF BUSINESS, OR LOSS OF DATA.

4) INDEMNIFICATION: THE CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS HRI COMMERCIAL FOOD SERVICE AND ITS' EMPLOYEES FROM ANY CLAIMS, DAMAGES, LIABILITIES, COSTS, OR EXPENSES (INCLUDING ATTORNEY FEES) ARISING OUT OF OR RELATED TO THE INSTALLATION, USE, OR OPERATION OF THE EQUIPMENT.

BY PROCEEDING WITH THE PURCHASE OF EQUIPMENT FROM HRI COMMERCIAL FOOD SERVICE, YOU ACKNOWLEDGE THAT YOU HAVE READ, UNDERSTOOD, AND AGREED TO THE TERMS AND CONDITIONS OUTLINED IN THIS DISCLAIMER.

*NOTE: THIS DISCLAIMER IS APPLICABLE FOR PROJECTS WHERE HRI COMMERCIAL FOOD SERVICE IS NOT INSTALLING THE EQUIPMENT.

GENERAL PLUMBING NOTES

1) THE INFORMATION SHOWN ON THESE PLUMBING PLANS IS FOR THE FOOD SERVICE EQUIPMENT ONLY AND THE RESPONSIBILITY OF THE GC/PC UNLESS OTHERWISE SPECIFIED. FOR OTHER REQUIREMENTS SUCH AS TOILET FACILITIES, AREA FLOOR DRAINS ETC., SEE ARCHITECTURAL AND PLUMBING ENGINEERING PLANS.

2) PC TO DO ALL ROUGH-INS AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT AND INTERCONNECTIONS BETWEEN EQUIPMENT. PLUMBER TO FURNISH ALL TRIM, ACCESSORIES, VALVES, PRESSURE REGULATORS, P-TRAPS, GREASE TRAPS, DRAIN LINES AND BACK FLOW PREVENTION SYSTEM DEVICES, ETC. ALL PREVAILING LOCAL PLUMBING CODES TO BE ACCOMMODATED UNLESS NOTED OTHERWISE TO BE DONE BY FSE CONTRACTOR. THIS IS TO INCLUDE, BUT NOT LIMITED TO, THE INSTALLATION OF SINK FAUCETS, DRAIN BASKETS, DRAIN LEVERS, THE HANGING OF WALL MOUNTED HAND SINKS, AND FSE RELATED FILTERS.

3) SHUT-OFF VALVES ON THE INLET SIDE OF THE COLD AND HOT WATER LINES SERVING EACH PIECE OF EQUIPMENT, ARE TO BE FURNISHED AND INSTALLED BY THE PC.

4) IF WATER PRESSURE AT THE EQUIPMENT AREA EXCEEDS 50 POUNDS FLOW PRESSURE OWNER OR HIS CONTRACTOR MUST INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT WATER AND COLD WATER SUPPLY LINES SERVICING THE AREA.

5) FLOW PRESSURE TO DISHWASHER (OR ITS AUXILIARY HOT WATER BOOSTER HEATER IF ONE IS USED) MUST NOT EXCEED 25 POUNDS.

6) GC/PC MUST PROVIDE AN ADEQUATE SUPPLY OF 140°F HOT WATER TO ALL COOKING EQUIPMENT, DISHWASHER/BOOSTER HEATER AND SCULLERY SINKS. 110°F HOT WATER IS TO BE PROVIDED TO ALL OTHER SINKS.

7) IF WATER EXCEEDS TEN GRAINS OF HARDNESS, OR EXCESSIVE LIME, IRON, ALKALINE, ETC. CONDITIONS ARE PRESENT, PROPER WATER CONDITIONING EQUIPMENT MUST BE INSTALLED ON THE MAIN WATER LINES SERVING THIS FOOD SERVICE FACILITY. ALL WATER CONDITIONING EQUIPMENT SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY OTHERS.

8) USING PVC PIPING FOR DRAIN LINES FROM EQUIPMENT THAT DISCHARGES HOT WATER SUCH AS STEAMERS & DISHWASHERS MAY CAUSE THE PVC PIPING TO SOFTEN OR CRACK, IT IS RECOMMENDED THAT METAL (COPPER OR GALVANIZED) PIPING BE USED.

9) PC TO PROVIDE GREASE INTERCEPTOR(S) AS CODE REQUIRES. PLUMBER TO SIZE AND FURNISH GREASE INTERCEPTOR(S) PER SPECIFICATIONS. PLUMBER TO CHECK WITH LOCAL CODES TO DETERMINE WHAT EQUIPMENT IS TO BE PIPED THROUGH A GREASE TRAP. SEE PLUMBING ENGINEERING DRAWINGS AND SPECIFICATIONS (BY OTHERS) FOR DETAILS.

10) PC TO EXTEND ALL INDIRECT WASTE LINES FOR FOOD SERVICE EQUIPMENT TO THE NEAREST FLOOR DRAIN(S) OR FLOOR SINK(S) BY PC AS REQUIRED, UNLESS OTHERWISE SPECIFIED.

11) PC TO RUN LINES FOR DISHMACHINE(S) AND CONVEYOR(S) TIGHT TO EQUIPMENT TO INSURE MAXIMUM FLOOR TO EQUIPMENT CLEARANCE.

12) PC TO INSTALL MECHANICAL GAS SHUT OFF VALVE IN GAS MAIN FEEDING ALL COOKING EQUIPMENT PRIOR TO ANY TEES OR GAS LOOP FEEDING COOKING EQUIPMENT. MECHANICAL SHUT OFF VALVE TO BE INSTALLED IN ACCESSIBLE CEILING SPACE OR BELOW FLOOR WITH ACCESS TO VALVE.

13) WHEN SPECIFIED, PLUMBER SHALL PROVIDE AND RUN HOT WATER LINES FROM WATER WASH CONTROL PANEL(S) TO CONNECTION(S) SHOWN AT VENTILATOR(S).

14) PC TO PROVIDE FLOOR DRAINS AS PER LOCAL CODE HAVING JURISDICTION AND OWNER'S REQUEST.

15) PC IS TO REVIEW ALL CATALOG DATA PROVIDED BY THE KEC TO ESTABLISH THE NECESSARY GAS PRESSURE TO THE KITCHEN EQUIPMENT. IF GAS PRESSURE TO KITCHEN EQUIPMENT IS HIGHER THAN REQUIRED, A PRESSURE REGULATOR IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR OR BY THE GAS COMPANY. THE GAS PRESSURE REGULATOR MUST BE INSTALLED PRIOR TO THE GAS FEEDING ANY KITCHEN EQUIPMENT. EXCESSIVE GAS PRESSURE TO THE EQUIPMENT CAN DAMAGE THE EQUIPMENT AND CAUSE PERSONAL INJURY.

16) INTERCONNECTIONS BETWEEN BOOSTER HEATER AND DISHWASHER, AS WELL AS GENERATOR AND STEAM EQUIPMENT TO BE PROVIDED BY THE PLUMBING CONTRACTOR.

17) PC TO VERIFY, FURNISH AND INSTALL REQUIRED PLUMBING ROUGH-INS FOR ALL EXISTING,RE-UTILIZED AND NEW EQUIPMENT BEING SUPPLIED BY THE OWNER. KEC IS NOT RESPONSIBLE FOR THESE ROUGH-INS.

18) MANUFACTURERS OF GAS APPLIANCES REQUIRE A 7" WC AT THE POINT OF CONNECTION.

19) PC TO PROVIDE A WATER CONNECTION TO BYPASS WATER FILTER CONNECTIONS SO THAT WATER FILTERS MAY BE TEMPORARILY BYPASSED.

20) KEC PROVIDES WATER FILTER INFORMATION FOR REFERENCE ONLY. FINAL WATER CONNECTION SPECIFICATION TO BE VERIFIED WITH SCOPE OF USE, APPLICATION, ZIP CODE AND WATER QUALITY TESTING. GC/PC TO VERIFY FINAL SPECIFICATION AND LOCATION IN FIELD. KEC IS NOT RESPONSIBLE FOR RE-SIZING OR RELOCATION OF WATER FILTERS DUE TO SCOPE OF USE, APPLICATION, WATER QUALITY OR FIELD CONDITIONS.

21) PC TO SUPPLY & INSTALL ALL GAS, WATER & DRAINS REQUIRED BY MAKE-UP AIR SYSTEM. ALL SERVICES TO HAVE SHUT-OFF VALVES AT UNITS.

22) EXPOSED PIPING RUNS SHALL BE AS SHORT AS POSSIBLE.

23) GAS & WATER QUICK DISCONNECTS, WHEN SPECIFIED BY KEC, SHALL BE PROVIDED BY KEC. INSTALLATION SHALL BE BY THE PLUMBING CONTRACTOR.

24) PC SHALL INSTALL SOLENOID VALVE AND VACUUM BREAKER PRIOR TO WATER INLET OF DISPOSER (WHEN SPECIFIED).

25) PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY OF GENERAL PLUMBING FITTINGS NOT SPECIFIED IN THE FSE WRITTEN SPECIFICATIONS.

26) PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY OF GENERAL PLUMBING SUPPLIES NOT SPECIFIED IN THE FSE WRITTEN SPECIFICATIONS.

27) IT IS RECOMMENDED THAT WATER SOFTENING TREATMENTS ARE USED IN ADDITION TO WATER FILTERS FOR EQUIPMENT THAT REQUIRE A FILTER TO PREVENT ANY HARD WATER BUILD UP OF MINERALS IN PIPING AND FUNCTIONAL COMPONENTS FOR LONGEVITY OF LIFE.

GENERAL ELECTRICAL NOTES

1) THE INFORMATION SHOWN ON THE ELECTRICAL PLAN(S) IS FOR FOOD SERVICE EQUIPMENT ONLY AND THE RESPONSIBILITY OF THE GC/EC UNLESS OTHERWISE SPECIFIED. FOR ALL OTHER REQUIREMENTS, SUCH AS INTERIOR AND EXTERIOR LIGHTING, TOILET FACILITIES, EXHAUST FANS, WALL OUTLETS AND TELEPHONES, SEE ARCHITECTS AND ELECTRICAL ENGINEERING DRAWINGS.

2) EC TO DO ALL ROUGH-INS AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT INCLUDING HARDWIRED CONNECTIONS. EC TO FURNISH ALL TRIM, ACCESSORIES, DISCONNECTS, CONTACTORS, SWITCHES, RELAYS, ETC, AS REQUIRED. THE FSE CONTRACTOR IS RESPONSIBLE FOR THE CORD & PLUG CONNECTIONS.

3) THE FSE CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY OF EQUIPMENT CORD & PLUG NOT SPECIFIED IN THE WRITTEN SPECIFICATIONS.

4) ALL WIRING AND CONDUIT TO BE CONCEALED.

5) EC TO ACCOMMODATE ALL PREVAILING LOCAL ELECTRICAL CODES AS REQUIRED.

6) EC TO REFER TO ARCHITECTURAL AND ELECTRICAL ENGINEERING PLANS AND SPECIFICATIONS (BY OTHERS) FOR COMPLETE SCOPE OF WORK.

7) EC TO PROVIDE REQUIRED CONVENIENCE RECEPTACLES AS PER LOCAL CODE HAVING JURISDICTION AND PER OWNER'S NEEDS.

8) GFI RECEPTACLES ARE NOT RECOMMENDED FOR THE KITCHEN EQUIPMENT SHOWN ON THESE DRAWINGS. KITCHEN EQUIPMENT SHOULD PLUG INTO A NON-GFI DEDICATED RECEPTACLE FOR THAT PIECE OF EQUIPMENT. KEC WILL NOT BE HELD RESPONSIBLE FOR ANY SERVICE OR WARRANTY WORK RELATED TO KITCHEN EQUIPMENT THAT TRIPS A GFI RECEPTACLE. IT IS RECOMMENDED THE ELECTRICAL ENGINEER OR ELECTRICAL CONTRACTOR OBTAIN A VARIANCE IF CODES OR OTHER DRAWINGS FOR THIS PROJECT REQUIRE GFI RECEPTACLES FOR THE KITCHEN EQUIPMENT. GFCI BREAKERS ARE PREFERRED.

9) MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.

10) FLOOR MOUNTED DEVICES ARE TO BE MOUNTED WITH A 5 3/4" MAXIMUM HEIGHT TO TOP OF BOX.

11) EC SHALL FURNISH ALL LABOR AND MATERIALS (INCLUDING, BUT NOT LIMITED TO, ALL CONTACTORS, RECEPTACLES, J-BOXES, SWITCHES, INTERWIRING, DISCONNECT SWITCHES, MOTOR STARTERS AND/OR TRANSFORMERS OR ANY OTHER ELECTRICAL DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL) TO MAKE FINAL CONNECTIONS FROM SERVICE ROUGH-INS TO EQUIPMENT AND INTERCONNECTIONS BETWEEN EQUIPMENT, WITH ALL WORK DONE IN ACCORDANCE WITH ALL LOCAL CODES.

12) THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND WIRING OF THE WALK-IN COOLER AND WALK-IN FREEZER LIGHTS & SWITCH PER ELECTRICAL CONNECTION SCHEDULE AS NOTED ON FSE SCHEDULE SHEET. ANY ADDITIONAL WIRING BY THE FSE CONTRACTOR.

13) THE INTERWIRING OF SPECIALIZED EQUIPMENT INCLUDING THE INTERWIRING OF THE KITCHEN EXHAUST HOOD AND CUSTOM SERVING UNITS TO BE DONE BY THE FSE CONTRACTOR UNLESS NOTED OTHERWISE.

GENERAL HVAC /VENTILATION & OTHER NOTES

1) SEE FINAL APPROVED DETAILED MANUFACTURER HOOD AND EXHAUST DRAWINGS FOR COMMERCIAL KITCHEN VENTILATION SIZES. IT IS THE RESPONSIBILITY OF THE MECHANICAL ENGINEER TO ENSURE DUCT SIZING AND INSTALLATION REQUIREMENTS SATISFY LOCAL CODES.

2) IF CONTRACTED, KEC SHALL BE RESPONSIBLE FOR HANGING EXHAUST HOOD(S) AND MAKE-UP AIR PLENUM(S) IN PLACE AND MAKING THEM READY FOR FINAL CONNECTION. HVAC CONTRACTOR TO PROVIDE AND INSTALL GREASE AND SUPPLY DUCT FROM HOODS TO EXHAUST FOR HOODS, FANS AND MAKEUP AIR UNIT. WHEN TYPE 1 (GREASE) EXHAUST IS PRESENT, FPC SHALL SUPPLY ALL NECESSARY COMPONENTS FOR FULLY OPERATIONAL, UL-LISTED, WET CHEMICAL FIRE SUPPRESSION SYSTEM, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND COMPLIANT WITH ALL REQUIRED NFPA AND LOCAL CODES.

3) MEP SHALL VERIFY EXHAUST & SUPPLY DUCT RUNS WITH HVAC CONTRACTOR, AND BE RESPONSIBLE FOR COORDINATION/REVISION OF CONNECTIONS WITH PROJECT ENGINEERS AND CONTRACTORS FOR ALL COMMERCIAL KITCHEN VENTILATION EQUIPMENT. FPC TO FIELD VERIFY FIRE SUPPRESSION SYSTEM PULL STATION LOCATION WITH LOCAL FIRE AUTHORITIES.

4) HVAC CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS TO MAKE FINAL CONNECTIONS FROM EACH DUCT CONNECTION, WITH ALL WORK DONE I

HOT LINE DOESN'T HAVE ENOUGH
CLEARANCE (MIN 3'). CAN HOOD WALL MOVE UP 6"?

UP
24R

Fire System

6'-9 1/16"

3'-5 13/16"

6'

2'-6"

3'

2 FIRST FLOOR BAR
SCALE: 3/8" = 1'-0"

1 FIRST FLOOR KITCHEN
SCALE: 3/8" = 1'-0"

HRI
COMMERCIAL FOOD SERVICE

HRI
COMMERCIAL FOOD SERVICE
2630 CHERRY STREET
ERIE, PA 16508
814-453-4747

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NO	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			

NO	DESCRIPTION	DATE
1	EQUIPMENT PLAN	01/16/2025

PROJECT: BUFFALO PUTTZ

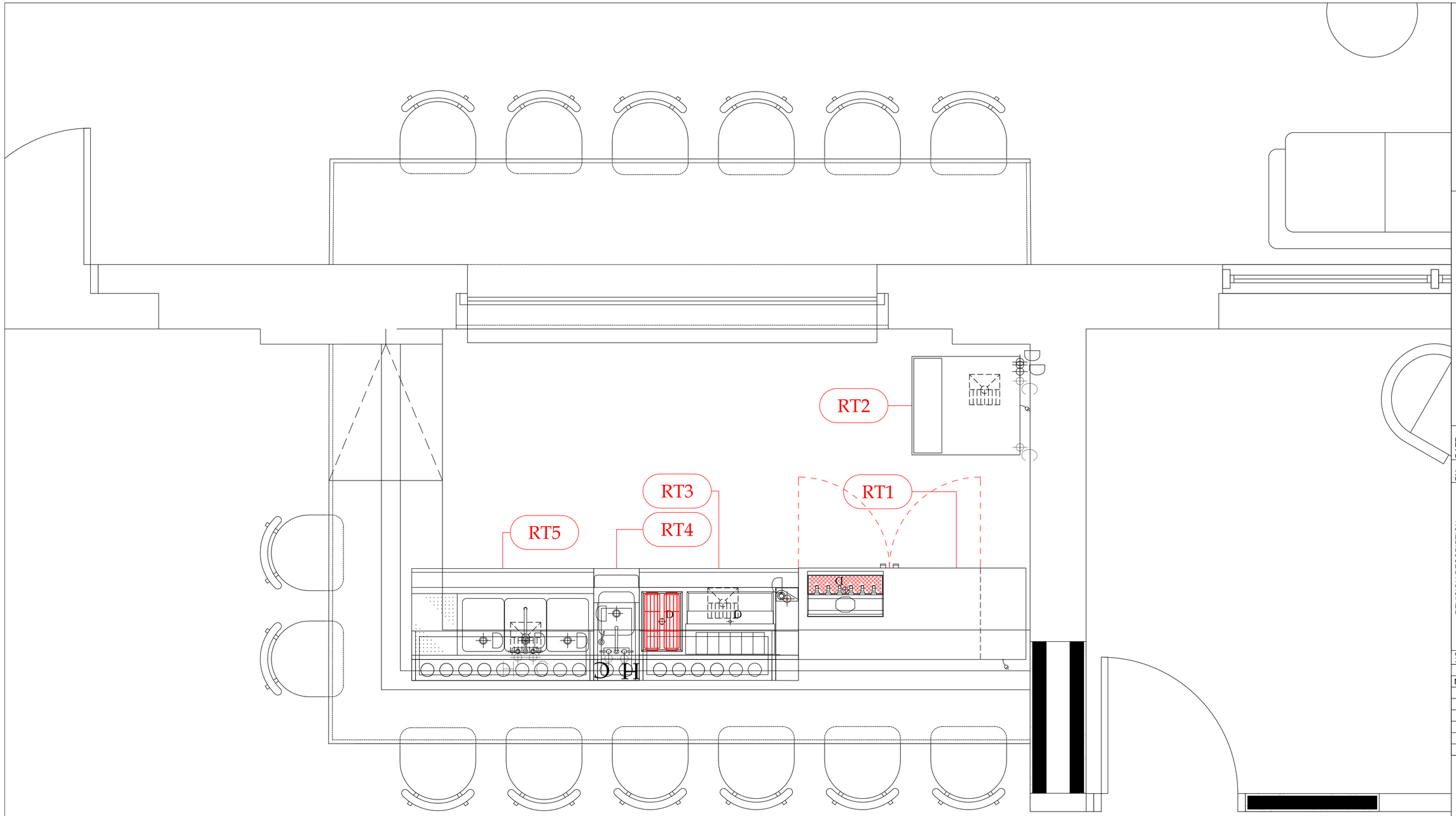
LOCATION: 201 GANSON ST., BUFFALO, NY 14203

DRAWN BY: GR | DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-2.0

SCALE: 3/8"=1'0"



3 SECOND FLOOR BAR
SCALE: 1" = 1'-0"

HRi
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2630 CHERRY STREET
ERIE, PA 16508
814-453-4747

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NO	REVISION DESCRIPTION	BY	DATE
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NO	DESCRIPTION	DATE
1	EQUIPMENT PLAN	01/06/2025

PROJECT: BUFFALO PUTTZ

LOCATION: 201 GANSON ST., BUFFALO, NY 14203

DRAWN BY: GR

DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-2.1

SCALE: 1" = 1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE

EQUIPMENT INFORMATION						ELECTRICAL								PLUMBING										
Item #	Quantity	Unit	Category	Manufacturer	Model	Voltage	Phase	Amps	Cycle	Horsepower	Kilowatts	Connection	NEMA	AFF	Cold Water	Cold Water AFF	Hot Water	Hot Water AFF	Indirect Waste	Sanitary Waste	Sanitary AFF	Natural Gas	Natural Gas AFF	MBTU	REMARKS
First Floor Kitchen																									
1	1	ea	Exhaust Hood	Captiveaire	6024ND-2-PSP-F																				Refer to submittal notes
			Exhaust Fan	Captiveaire	DU180HFA	208	3	8.3	60	2		Direct													Unit located on the roof
			Make-Up Air Unit	Captiveaire	A2-D.500-200	208	3	3.8	60	1		Direct											24"	207.0	Unit located on the roof
2	2	ea	Gas Floor Fryer	Frymaster/Dean	SR152G																	3/4"	18"	120.0	C.O. at 48"
2.1	3	ea	Safety System Moveable Gas Connector	Dormont	1675BPCF36																				
3	1	ea	Range, 60", 6 Burners, 24" Griddle/Broiler	Garland Commercial Ranges	G60-6R24RR																	1"	18"	307.0	
3.1	1	ea	Salamander Broiler, Gas	Falcon Food Service Equipment	ASAL-36																	3/4"	48"	30	(2)C.O. at 48"
3.2	1	ea	Safety System Moveable Gas Connector	Dormont	1675BPCF36																				
4			Spare Number																						
5			Spare Number																						
6			Spare Number																						
7	1	ea	Convection Oven, Gas	Garland Commercial Ranges	MCO-GS-10-S	120	1	9.8	60	3/4		Cord & Plug	5-15P	48"								3/4"	48"	60.0	C.O. at 48"
7.1	1	ea	Safety System Moveable Gas Connector	Dormont	1675BPCF36																				
8	1	ea	Work Table, 60"W	Falcon Food Service Equipment	WT-3060-SSU-4																				(2)C.O. at 48"
9	1	ea	Conveyor Oven, Electric	Lincoln	V2500-4/1346	208/240	1	27	60		6	Cord & Plug	NEMA 6-50P	48"											
10	1	ea	Mega Top Sandwich / Salad Preparation Refrigerator	Falcon Food Service Equipment	AST-60M	115	1	7.8	60	1/4		Cord & Plug	5-15P	18"											(2)C.O. at 48"
11	1	ea	Work Table, 72"W	Falcon Food Service Equipment	WT3072SSU4-16																				(3)C.O. at 48"
12	4	ea	Shelving, Wall Mounted	John Boos	BHS1636-16/304																				
13	1	ea	WorkTop Freezer	Falcon Food Service Equipment	AWT-48F	115	1	4.5	60	1/4		Cord & Plug	5-15P	18"											C.O. at 48"
14	1	ea	Mega Top Sandwich / Salad Preparation Refrigerator	Falcon Food Service Equipment	AST-36M	115	1	4.8	60	1/5		Cord & Plug	5-15P	18"											C.O. at 48"
15	1	ea	Hot Food Serving Counter / Table	Advance Tabco	HF-6E-240-BS	208-240	1		60			Cord & Plug	L6-30P	18"					2"						Branch to F.S.
16			Spare Number																						
17	1	ea	Sandwich / Salad Preparation Refrigerator	Falcon Food Service Equipment	AST-27	115	1	5.3	60	1/5		Cord & Plug	5-15P	18"											C.O. at 48"
18	2	ea	Refrigerated Work Top	Falcon Food Service Equipment	AWT-60	115	1	2.9	60	1/5		Cord & Plug	5-15P	18"											(4)C.O. at 48"
19	1	ea	One (1) Compartment Sink	Falcon Food Service Equipment	HD1C-18X18-L-18														2"						Branch to F.S.
19.1	1	ea	Pre-Rinse Faucet Assembly, with Add On Faucet	T&S Brass	5PR-8W12										1/2"	18"	1/2"	18"							
20			Spare Number																						
21			Spare Number																						
22	1	ea	Equipment Stand, for Mixer / Slicer	Advance Tabco	AG-MP-30																				C.O. at 48"
23	1	ea	Meat Slicer	Eurodib USA	HBS300L	120	1	2.3	60	1/3	.25	Cord & Plug	5-15P	48"											
24	1	ea	Cabinet, Cook / Hold / Oven	Cres cor	CO151FUA12DE2083	240	1	50	60		8	Cord & Plug	6-50P	48"											
25			Spare Number																						
26	1	ea	Can Rack	Channel	CSR-99M																				C.O. at 18"
27	1	ea	Bun / Sheet Pan Rack	John Boos	ABPR-1820-RKD-X																				
28	1	ea	Dishtable, with Potsinks	BK Resources	BKSDT-3-20-12-20RSPG										1/2"	18"	1/2"	18"		2"	18"				
29	3	ea	Hand Sink	Falcon Food Service Equipment	HS-17SS										1/2"	18"	1/2"	18"		2"	18"				
30	1	ea	Work Table, Stainless Steel Top	BK Resources	CVT-3630																				(2)C.O. at 48"
31	1	ea	Dishwasher, Door Type, Ventless	CMA Dishmachines	180-VL TALL	208	3	49.0	60	1	12.0	Direct			1/2"	18"	1/2"	64"	2"						Branch to F.S.
32	1	kt	Shelving Unit, Wire	Quantum	WR74-1848P-5																				(2)C.O. at 18"
33			Spare Number																						
34			Spare Number																						
35			Spare Number																						
36			Spare Number																						
37	1	kt	Shelving Unit, Wire	Quantum	WR74-2424P-5																				(2)C.O. at 18"
38	1	ea	Ice Maker, Cube-Style	Manitowoc	IYT0500A	115	1	11.5	60			Direct			3/8"	48"			1/2"						Branch to F.S.
	1	ea	Ice Bin for Ice Machines	Manitowoc	D570														3/4"						Branch to F.S.
39	1	ea	Beverage Counter	Advance Tabco	BEV-30-72L-GR										1/2"	18"	1/2"	18"	1-1/2						C.O. at 48", Branch to F.S.
40	1	ea	Coffee Brewer	BUNN	38700.0014	120/208-240	1		60			Direct			3/8"	48"									
41	1	kt	Shelving Unit, Wire	Quantum	WR74-1836P																				
42	1	ea	Work Table, Cabinet Base Sliding Doors	BK Resources	CSTR5-3048S																				(3)C.O. at 48"
43	1	ea	Walk-In Cooler & Freezer	AmeriKooler																					Refer to submittals
			Cooler Evaporator	AmeriKooler	BEL0070BS4EEAB0200	208-230	1	1	60	1		Direct													Refer to submittals
			Cooler Condensing Unit	AmeriKooler	BCH0025LBACZA0000	208-230	1	37.5	60	3		Direct													Refer to submittals
			Cooler Lights	AmeriKooler		120	1		60			Direct													Refer to submittals
			Freezer Evaporator	AmeriKooler	BEL0095AS6AMAB0200	115	1	1.8	60			Direct													Refer to submittals
			Freezer Condensing Unit	AmeriKooler	BCH0009MBACZA0000	208-230	1	15	60	0.75		Direct													Refer to submittals
			Freezer Lights	AmeriKooler		120	1		60			Direct													Refer to submittals
44	1	kt	Shelving Unit, Wire	Quantum	WR74-2448P																				C.O. at 18"
45	3	kt	Shelving Unit, Wire	Quantum	WR74-2436P																				(3)C.O. at 18"
46	2	kt	Shelving Unit, Wire	Quantum	WR74-2436P																				C.O. at 18"
47	4	kt	Shelving Unit, Wire	Quantum	WR74-2454P																				(5)C.O. at 18"
48	1	kt	Shelving Unit, Wire	Quantum	WR74-1842P																				C.O. at 18"
49	1	kt	Shelving Unit, Wire	Quantum	WR74-1836P																				C.O. at 18"
50	1	kt	Shelving Unit, Wire	Quantum	WR86-1836P																				(2)C.O. at 18"
51	1	ea	Shelving, Wall Mounted	Falcon Food Service Equipment	WS1848-HD																				
52	1	ea	Shelving, Wall Mounted	Falcon Food Service Equipment	WS1836-HD																				
First Floor Bar																									
B01	1	ea	Underbar Sink Units	Glastender	TSA-48L-S										3/8"	18"	3/8"	18"	(3) 1-1/2"						Branch to F.S.
B02	1	ea	Corner Angle Filler	Glastender	CIR-24/30R														1/2"						Branch to F.S.
B03	2	ea	Back Bar Cabinet, Refrigerated	Glastender	C1FB60	120	1	3.5	60	1/6		Cord & Plug	5-15P	18"											C.O. at 18"
B04	2	ea	Glass Rack	Glastender	DBGR-24														1/2"						Branch to F.S.
B05	2	ea	Ice Bin with Bottle Wells	Glastender	CBA-36R-CP10														3/4"						Branch to F.S.
B06	2	ea	Bottle Storage Unit	Glastender	LDA-12S																				
B07	2	ea	Corner Angle Filler	Glastender	CIR-24/24														1/2"						Branch to F.S.
B08	2	ea	Underbar Sink Units	Glastender	FS12										3/8"	18"	3/8"	18"		1-1/2"	18"				
B09	2	ea	Underbar Add-On Unit	Glastender	DWB-14-C																				
B10	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1SB24	120	1	2.75	60	1/8		Cord & Plug	5-15P	18"											
B11	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1FB52	120	1	3.5	60	1/6		Cord & Plug	5-15P	18"											C.O. at 18"
B12	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1SB36	120	1	2.75	60	1/8		Cord & Plug	5-15P	18"											C.O. at 18"
B13	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1SB48	120	1	2.75	60	1/8		Cord & Plug	5-15P	18"											
	1	ea	Draft Beer / Wine Dispensing Tower	Glastender	BT-6-SS														1/2"						Branch to F.S.
Second Floor Bar																									
RT1	1	ea	Back Bar Cabinet, Refrigerated	Glastender	C1FB60	120	1	3.5	60	1/6		Cord & Plug	5-15P	18"											C.O. at 18"
RT2	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDP0240A	115	1	7	60			Cord & Plug	5-15P	18"	3/8"	18"			1/2"						Branch to F.S.
RT3	1	ea	Ice Bin with Bottle Wells	Glastender	C-CBA-36R-CP10														3/4"						Branch to F.S.
RT4	1	ea	Underbar Sink Units	Glastender	FS12										3/8"	18"	3/8"	18"		1-1/2"	18"				
RT5	1	ea	Underbar Sink Units	Glastender	C-TSA-48R										3/8"	18"	3/8"	18"	(3) 1-1/2"						Branch to F.S.

EQUIPMENT SCHEDULE

HRI
COMMERCIAL FOOD SERVICE
2630 CHERRY STREET
ERIE, PA 16508
814-453-4747

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NO	REVISION DESCRIPTION	BY	DATE
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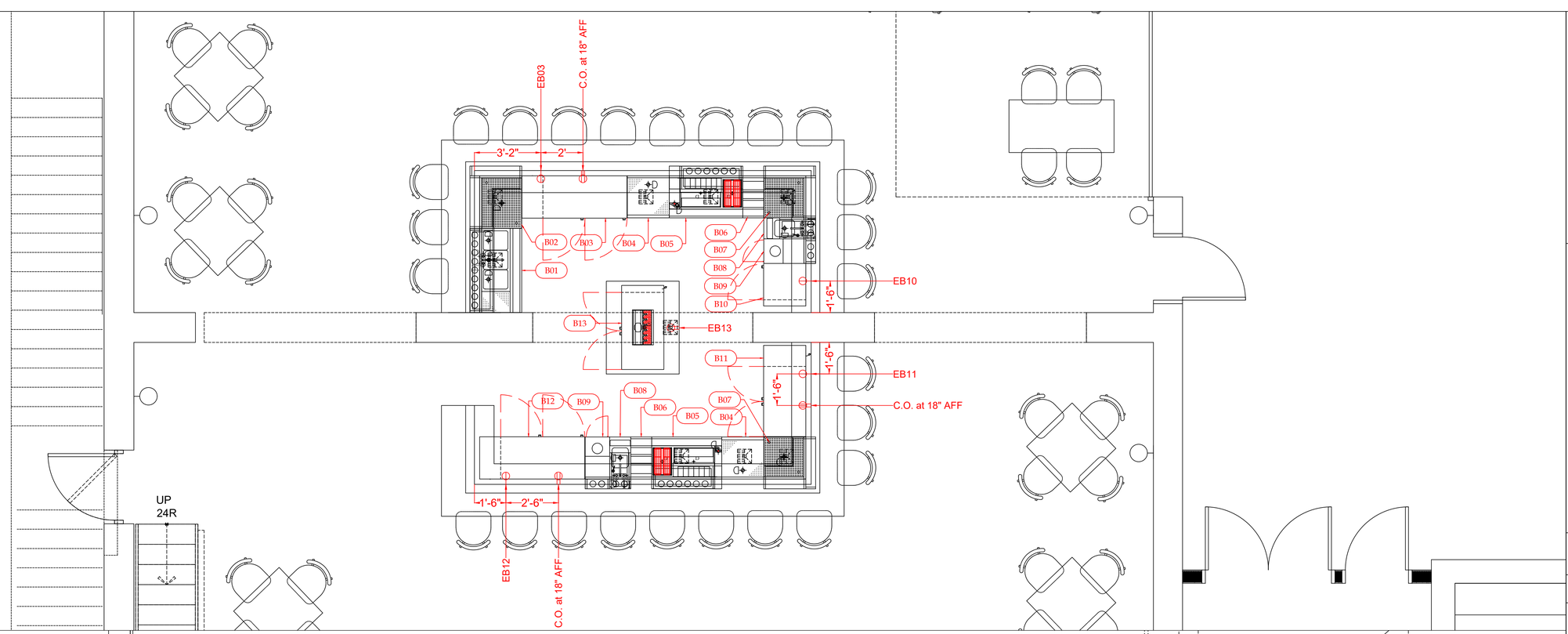
NO	DESCRIPTION	DATE
1	EQUIP SCHEDULE	01/06/2025

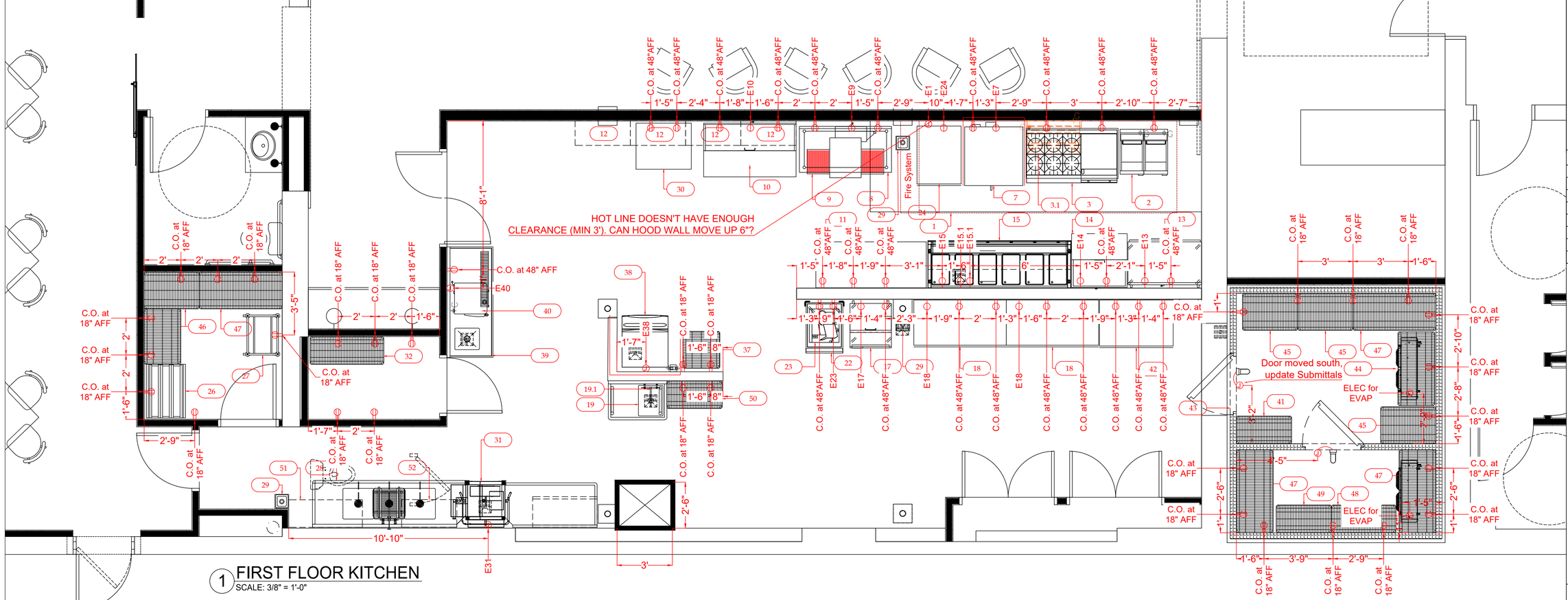
PROJECT: BUFFALO PUTTZ
LOCATION: 201 GANSON ST., BUFFALO, NY 14203
DRAWN BY: GR
DATE: AUGUST 29, 2025
CONSULTANT: AP

DRAWING NO: FSE-3.0
SCALE: NTS

2 FIRST FLOOR BAR
SCALE: 3/8" = 1'-0"



1 FIRST FLOOR KITCHEN
SCALE: 3/8" = 1'-0"



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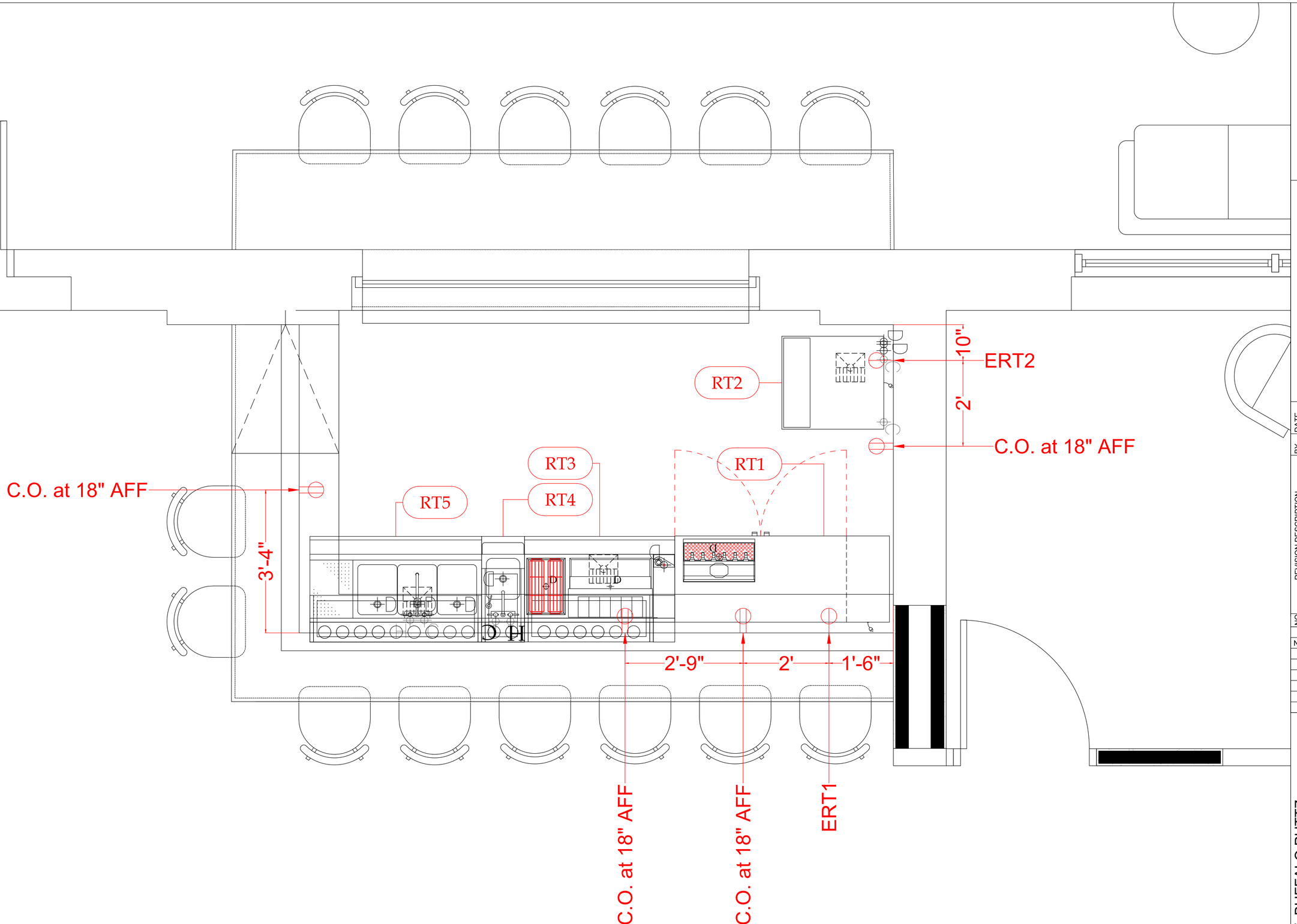
NO	DESCRIPTION	DATE
1	ELEC ROUGH INS	01/06/2025

PROJECT: BUFFALO PUTTZ

LOCATION: 201 GANSON ST., BUFFALO, NY 14203
DATE: AUGUST 29, 2025
DRAWN BY: GR
CONSULTANT: AP

DRAWING NO: FSE-4.0
SCALE: 3/8"=1'0"



3 SECOND FLOOR BAR
SCALE: 1" = 1'-0"

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NO	DESCRIPTION	DATE
1	ELEC ROUGH INS	01/06/2025

PROJECT: BUFFALO PUTTZ

LOCATION: 201 GANSON ST., BUFFALO, NY 14203

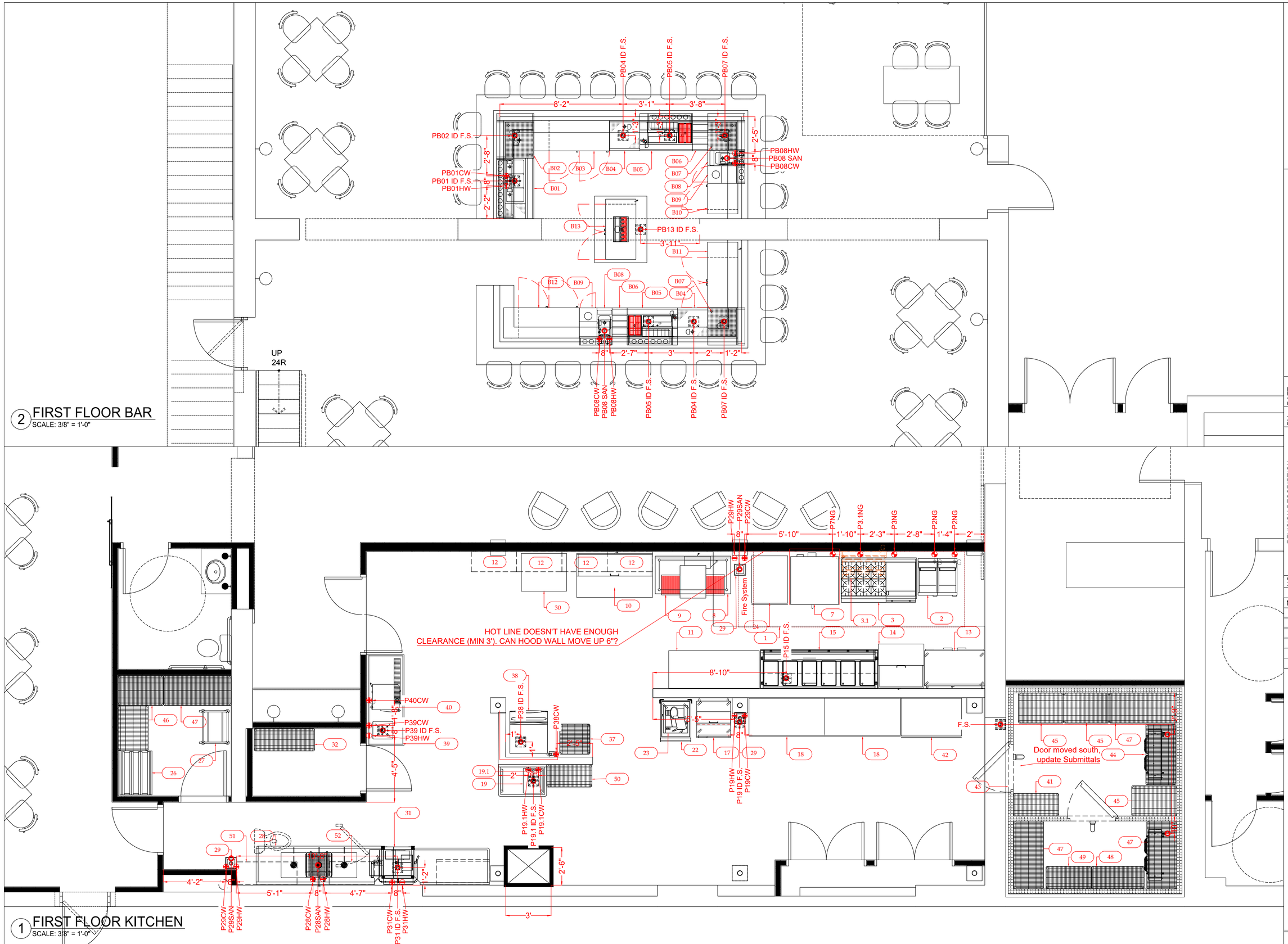
DRAWN BY: GR

DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-4.1

SCALE: 1" = 1'-0"



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NO	DESCRIPTION	DATE
1	PLUMB ROUGH INS	01/06/2025

PROJECT: BUFFALO PUTTZ

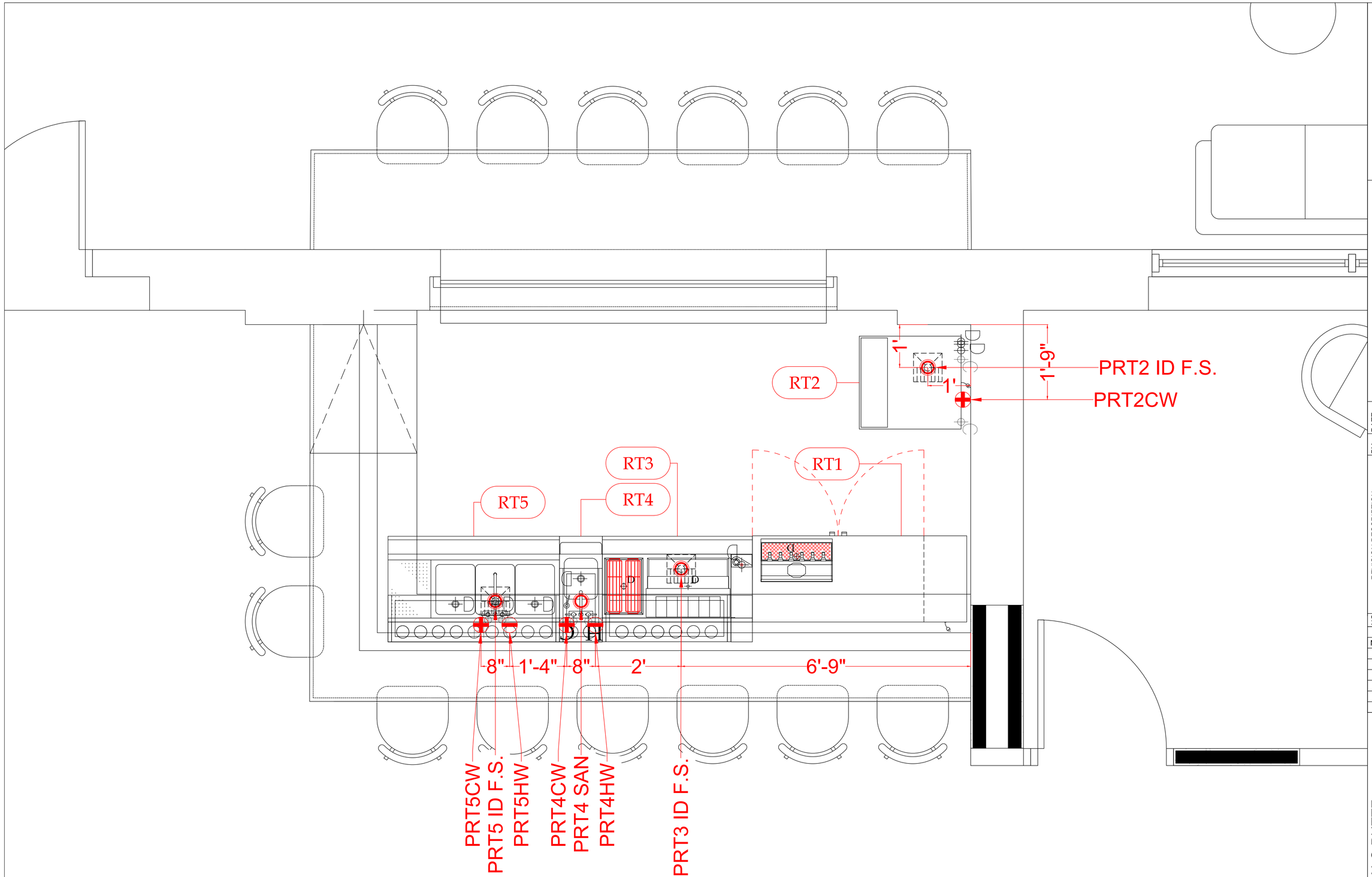
LOCATION: 201 GANSON ST., BUFFALO, NY 14203

DRAWN BY: GR | DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-5.0

SCALE: 3/8"=1'0"



3 SECOND FLOOR BAR
SCALE: 1" = 1'-0"

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NO	DESCRIPTION	DATE
1	PLUMB ROUGH INS	01/06/2025

PROJECT: BUFFALO PUTTZ

LOCATION: 201 GANSON ST., BUFFALO, NY 14203

DRAWN BY: GR

DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-5.1

SCALE: 1" = 1'-0"

ALL DIMENSIONS SHOWN HERE ARE CRITICAL HOLDS FOR BAR

19'-1 15/16" CRITICAL HOLD

8'-2 7/16" CRITICAL HOLD

8'-3 1/4" CRITICAL HOLD

5'-3 1/4" CRITICAL HOLD

B01 B02 B03 B04 B05 B06 B07 B08 B09 B10 B11 B12 B13

Need Access Panel

UP 24R

2 FIRST FLOOR BAR
SCALE: 3/8" = 1'-0"

14'-6 1/4" CRITICAL HOLD

17'-7 11/16" BLOCKING

14' - EXHAUST HOOD

4'-7 11/16" BLOCKING

Fire System

HOT LINE DOESN'T HAVE ENOUGH CLEARANCE (MIN 3'). CAN HOOD WALL MOVE UP 6"?

5'-10 1/4" BLOCKING & CRITICAL HOLD

3'-5 7/16" CRITICAL HOLD

5'-9 1/4" CRITICAL HOLD

4'-11 9/16" CRITICAL HOLD

6'-3 1/8" CRITICAL HOLD

22' - HALF WALL(BUILT by GENERAL CONTRACTOR)

11'-10 1/16" CRITICAL HOLD

10'-10 1/16"

Door moved south, update Submittals

13'-11 7/8" CRITICAL HOLD

13'-7 7/8" WALK-IN COOLER FREEZER

17'-8 1/2" BLOCKING & CRITICAI HOLD

3'

11'-10 1/16" CRITICAL HOLD

11'-6 1/16" WALK-IN COOLER FREEZER

1 FIRST FLOOR KITCHEN
SCALE: 3/8" = 1'-0"

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NO	DESCRIPTION	DATE
1	SPECIAL CONDITION	01/06/2025

PROJECT: BUFFALO PUTTZ

LOCATION: 201 GANSON ST., BUFFALO, NY 14203

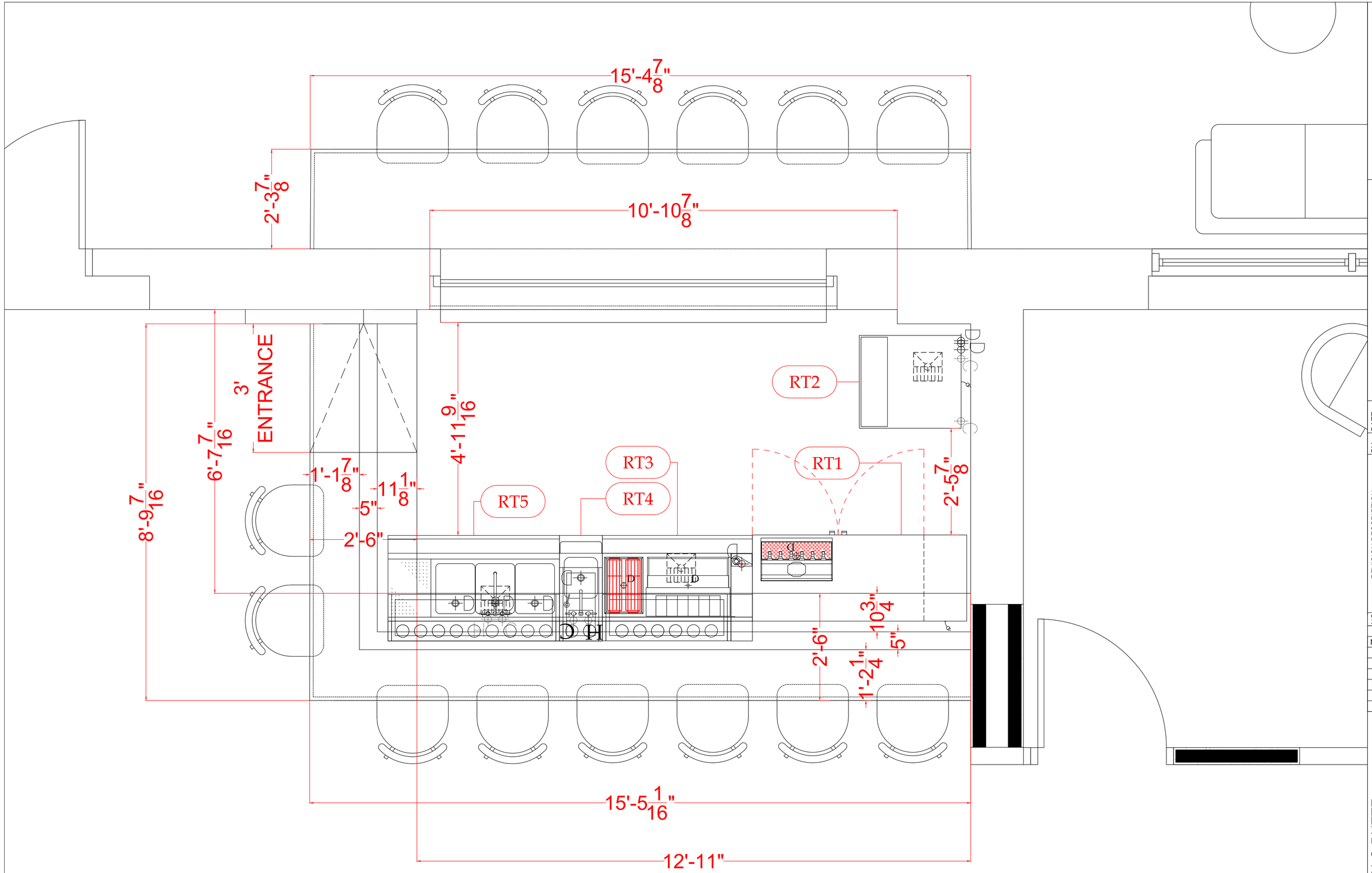
DRAWN BY: GR

DATE: AUGUST 29, 2025

CONSULTANT: AP

DRAWING NO: FSE-6.0

SCALE: 3/8"=1'0"



ALL DIMENSIONS SHOWN HERE
ARE CRITICAL HOLDS FOR BAR

3 SECOND FLOOR BAR
SCALE: 1" = 1'-0"

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NO	DESCRIPTION	DATE
1	SPECIAL CONDITION	01/06/2025

PROJECT: BUFFALO PUTTZ
LOCATION: 201 GANSON ST., BUFFALO, NY 14203
DRAWN BY: GR
DATE: AUGUST 29, 2025
CONSULTANT: AP

DRAWING NO: FSE-6.1
SCALE: 1" = 1'-0"

FOR QUESTIONS, CALL THE
Upstate New York
REGION 54
PHONE: (585) 348 - 9118
EMAIL: reg54@captiveaire.com

PATENT NUMBERS

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

HOOD INFORMATION - JOB#8387988

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		6024 ND-2-PSP-F	CAPTIVEAIRE	14' 0"	600 DEG	I	HEAVY	225	3150			4"	14"	1575	1473	-0.790"	2678	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	18"	1575	891	-0.480"				

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	10	16"	16"	85% SEE FILTER SPEC	5	RECESSED ROUND	NO							YES	902 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 170.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		STRUCTURAL FRONT PANEL.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		SENSOR-CV.

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	0"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	170"	18"	6"	MUA	12"	24"		667	0.197"
						MUA	12"	24"		667	0.197"
						MUA	12"	24"		667	0.197"
						MUA	12"	24"		667	0.197"

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
1	WALL MNT	12"x60"x24"	TANK FS	4.0/4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	440.00 LBS

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

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

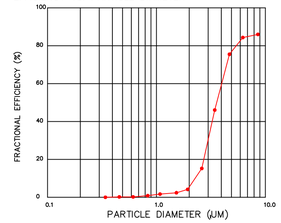
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

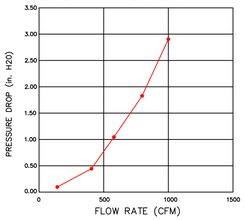
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

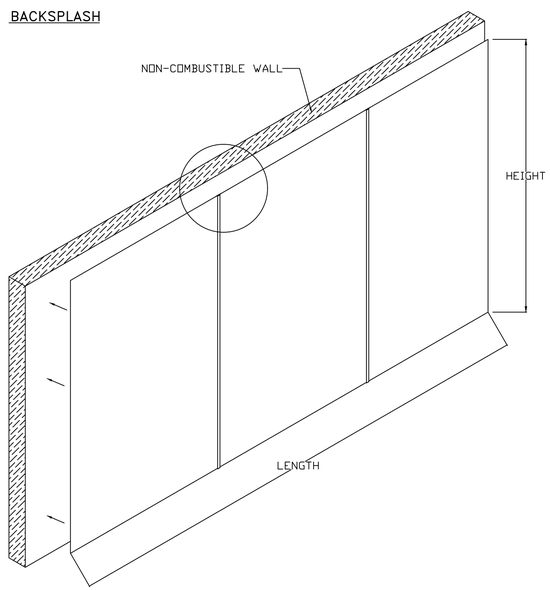
EFFICIENCY VS. PARTICLE DIAMETER

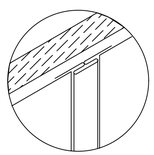


PRESSURE DROP VS. FLOW RATE



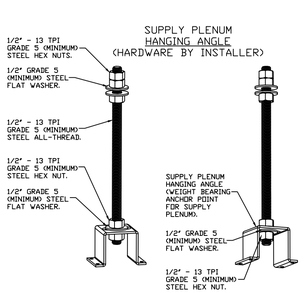
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.





BACKSPLASH PANELS SLIDE INTO DIVIDER BAR

- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS



ASSEMBLY INSTRUCTIONS

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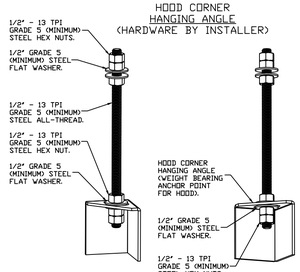

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Buffalo Puttz (R5)
210 Ganson Street,
Buffalo, NY, 14203

DATE: 12/2/2025

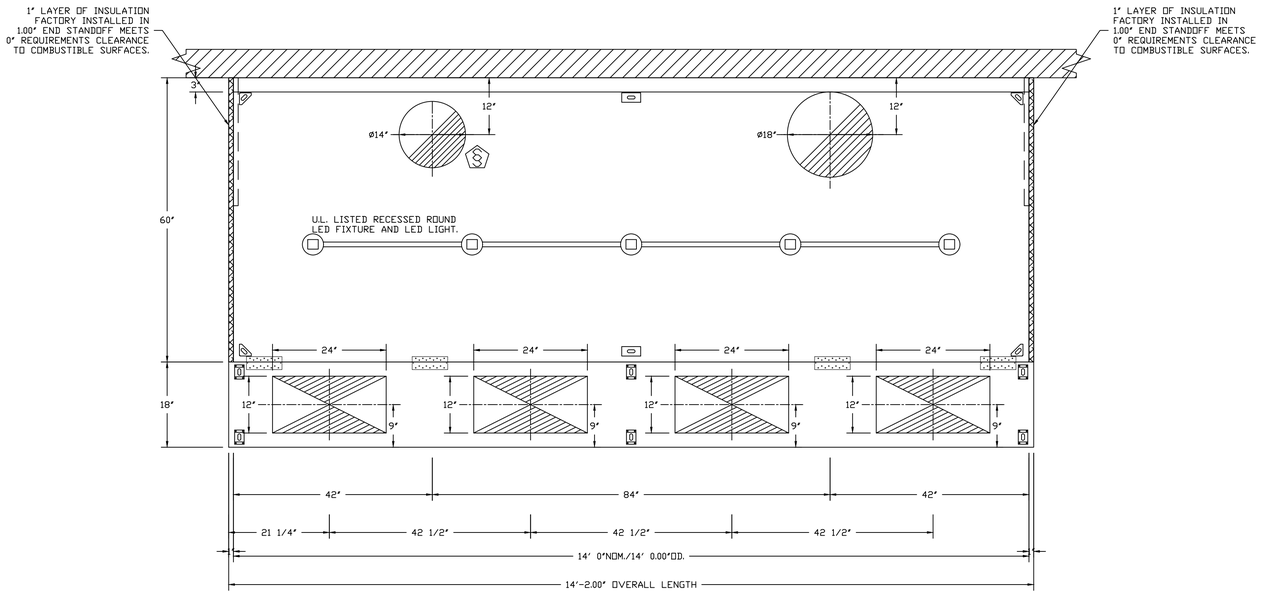
DWG.#: 8387988

DRAWN BY: AMG-54

SCALE: 3/4" = 1'-0"

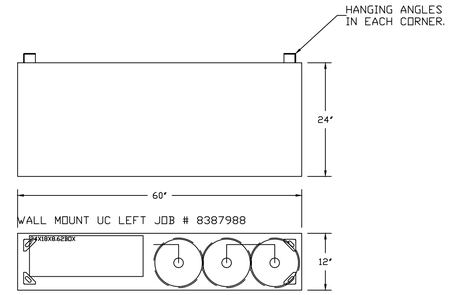
MASTER DRAWING

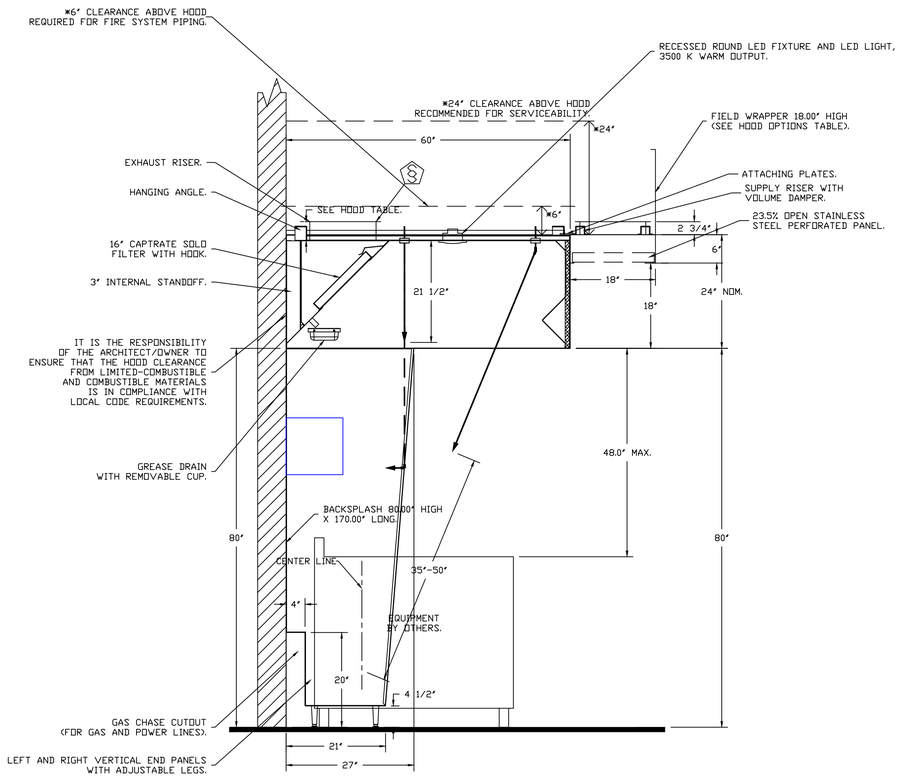
SHEET NO. 1



PLAN VIEW – HOOD #1
14' 0.00" LONG 6024ND-2-PSP-F

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.





SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #1

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DRAWN BY: AMG-54

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

FIRE SYSTEM INFORMATION – JOB#8387988

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	60	51	WALL UTILITY CABINET LEFT	N/A

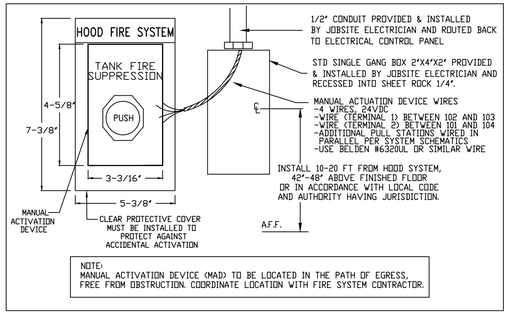
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	2	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	3	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	2	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2"NPT FEMALE CONNECTION, VIEGA.	3	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	12	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	6	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0 - 0 - SLPCON-30FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UPTO 29' GAP. KIT CONTAINS 32 FEET OF BLACK MG WIRE, 32 FEET OF TAN MG WIRE, 30 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	9	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	3	0
		34 - 34 - A0034331 RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0

TANK MANUAL ACTIVATION DEVICE DETAIL



WALL-MOUNT UTILITY CABINET
ASSEMBLY INSTRUCTIONS

CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.

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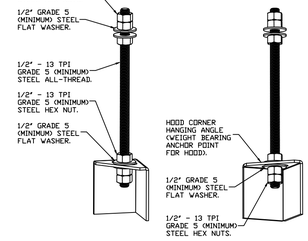
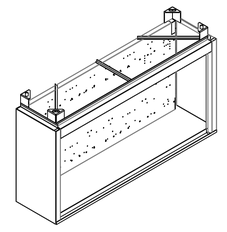
UTILITY CABINET
HANGING ANGLE
(HARDWARE BY INSTALLER)





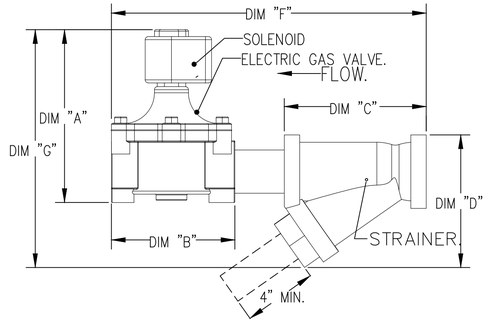
GAS VALVES AND STRAINERS

	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 →	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4417K68	(SC)EGVA2

ELECTRIC GAS VALVES ONLY:SOLENOID ORIENTATION
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST. EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

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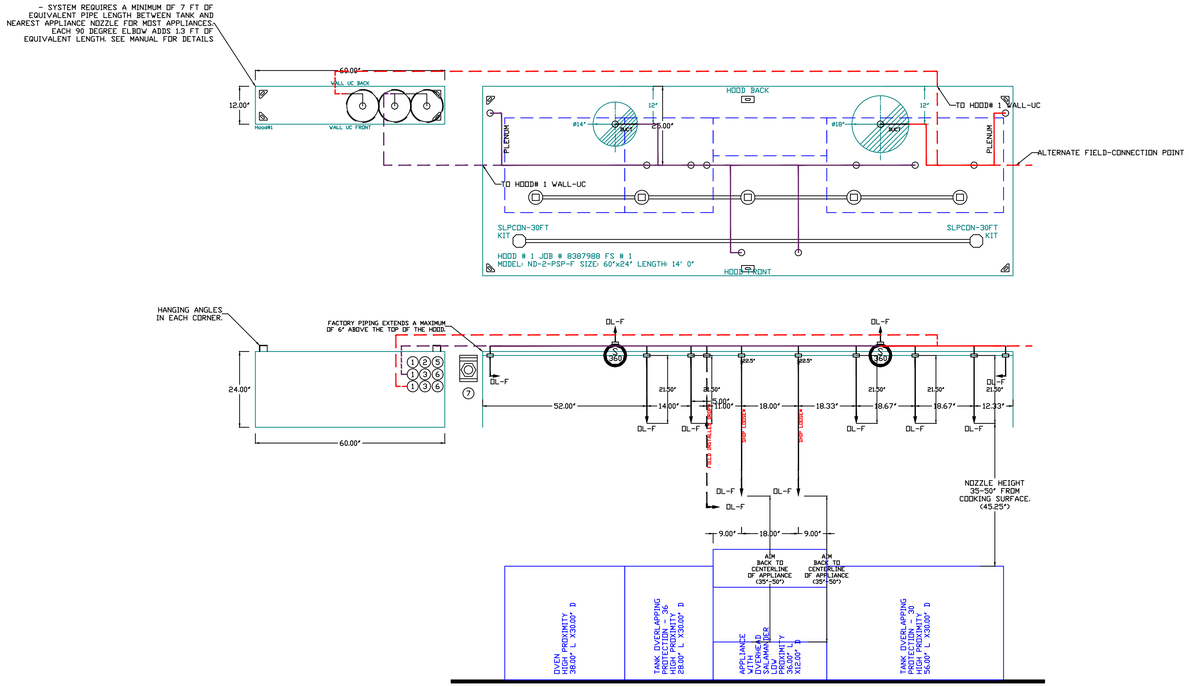
SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 3



NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 8387988.
JOB NAME: BUFFALO PUTTZ (R5).

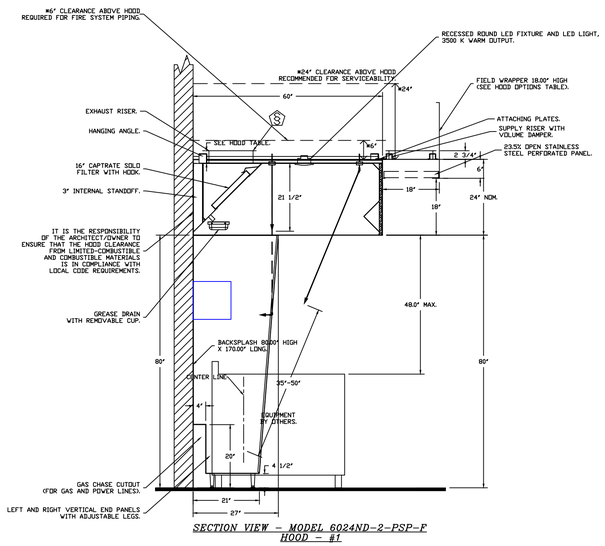
SYSTEM SIZE: TANK-SP-3-WC DESIGN FP: 51. MAXIMUM FP: 60.
HOOD # 1 14' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" DIA.
RISER # 2 SIZE: 18" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.



SECTION VIEW – MODEL 6024ND-2-PSP-F HOOD – #1

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MASTER DRAWING

SHEET NO. 4

EXHAUST FAN INFORMATION – JOB#8387988

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DU180HFA	CAPTIVEAIRE	3150	1.250	1273	ODP,PREMIUM	2.000	1.4550	3	208	8.3	727 FPM	184	19.5

MUA FAN INFORMATION – JOB#8387988

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	HMUA-1	1	A2-D.500-20D	20MF-2-MOD	A2-D.500	2000	2678	0.500	1142	ODP,PREMIUM	1.000	0.8270	3	208	3.8	4.8A	15A	663	8.7

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	HMUA-1	207087	190520	68°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	HMUA-1						YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1	EF-1		43 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED HINGED.
2	# 2	HMUA-1	4.3	80 LBS	CURB	31.000"W X 79.000"L X 20.000"H INSULATED.

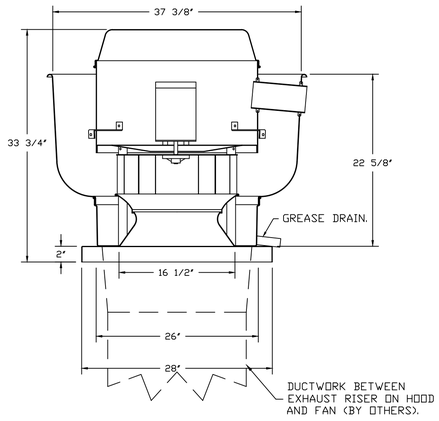
1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULC,ASTM, & ASHRAE STANDARDS.

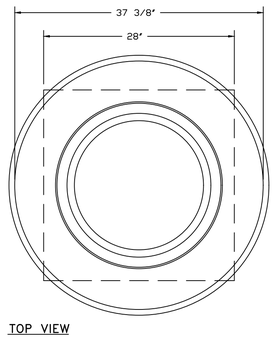
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	HMUA -1	1	SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	MODULAR UNIT INTAKE FIRESTAT SET TO 135°F
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500 CFM
		1	2 YEAR PARTS WARRANTY
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

FAN #1 DU180HFA - EXHAUST FAN (EF-1)





TOP VIEW

FEATURES:

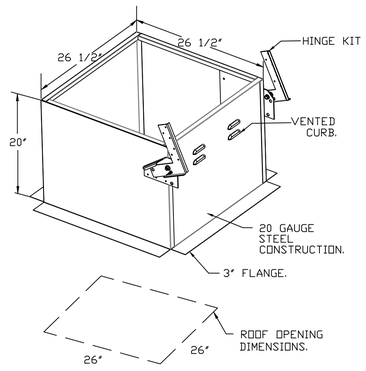
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

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

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

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



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349 W Commercial St., Suite #1900, East Rochester, NY, 14445 PHONE: (585) 348 - 9118 FAX: 919-227-5927 EMAIL: rep54@captiveaire.com

Buffalo Puttz (R5)
210 Ganson Street,
Buffalo, NY, 14203

DATE: 12/2/2025

DWG.#: 8387988

DRAWN BY: AMG-54

SCALE: 3/4" = 1'-0"

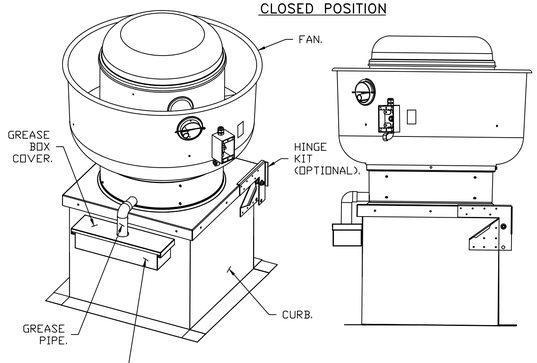
MASTER DRAWING

SHEET NO. 5

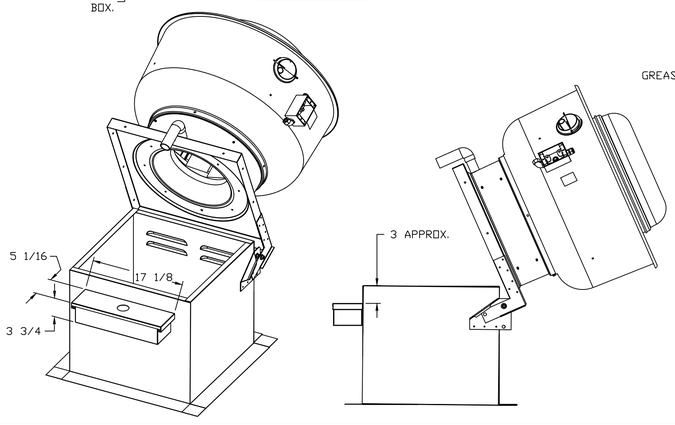
GREASEBOX
REV.#2 08/19/02

GREASE BOX INSTALLATION

CLOSED POSITION



OPEN POSITION



PARTS INCLUDED

GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

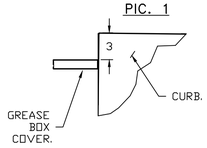
SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

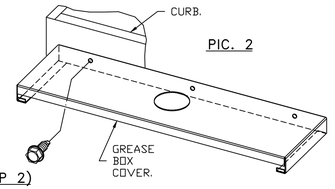
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB,
HOLD 3" DIMENSION AS SHOWN ON PIC. 1.
SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.)
SCREWS AS SHOWN ON PIC. 2.

PIC. 1



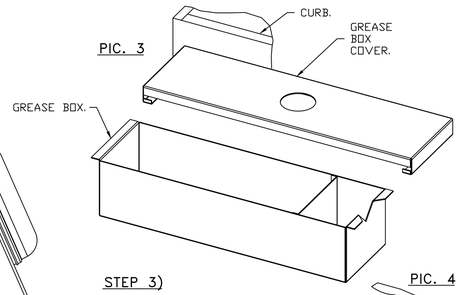
PIC. 2



STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP.
AS SHOWN ON PIC. 3.

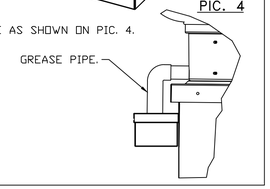
PIC. 3



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

PIC. 4



*NOTE: UL 705 INSTALL.

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REVISIONS

	DESCRIPTION	DATE:
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210 Ganson Street,
Buffalo, NY, 14203

DATE: 12/2/2025

DWG.#: 8387988

DRAWN BY: AMG-54

SCALE: 3/4" = 1'-0"

MASTER DRAWING

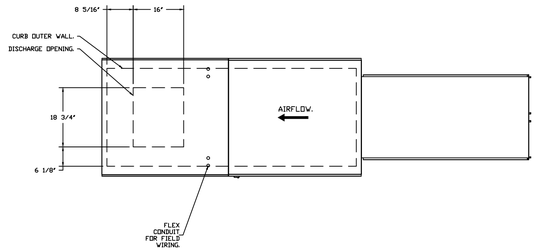
SHEET NO. 6

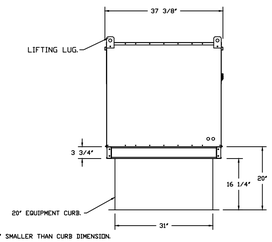
FAN #2 A2-D.500-20D - HEATER (HMUA-1).
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 DIRECT DRIVE AHUS.
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES W.C., 2.5" DIAMETER, 1/4" THREAD SIZE.
7. BUTTERFLY MIXING VALVE OPTION FOR MIXED SIZE 2 (1" MIXING VALVE).
8. MOTORIZED BACK DRAFT DAMPER 20.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
9. MODULAR UNIT INTAKE FIRESTAT, SET TO 125°F.
10. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE BOX. 3/4" CONDUIT WIRING FOR SEPARATE 120VAC INPUT TO SUPPLY FAN THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM VFD TO MUA ROOFTOP.
11. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
13. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.
14. 2 YEAR PARTS WARRANTY.

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

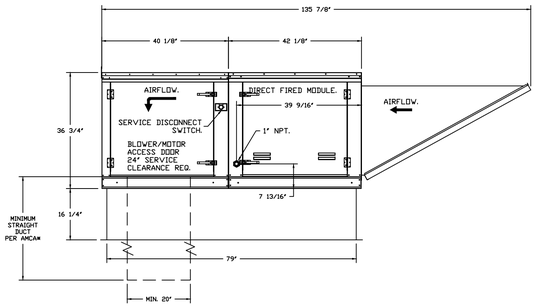
SUPPLY SIDE HEATER INFORMATION

WINTER TEMPERATURE = 7°F. TEMP. RISE = 68°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 194549.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 211466.
OUTPUT BTUs AT ALTITUDE OF 578 FT. = 190520.
INPUT BTUs AT ALTITUDE OF 578 FT. = 207087.

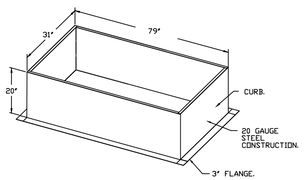


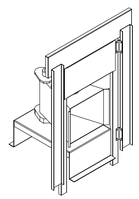


ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



OPTIONS:
- FULL BOTTOM CORNERS.





DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

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

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

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

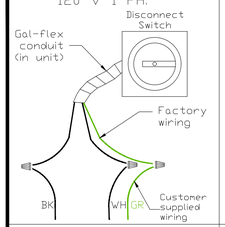
GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES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

Installation Wiring

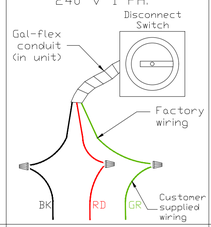
JOB 8387988 - Buffalo Puttz (R5)

DRAWING NUMBER RP8387988-2 | SHIP DATE 12/2/2025 | MODEL A2-D.500-20D

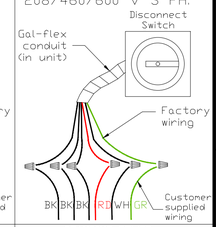
120 V 1 PH.



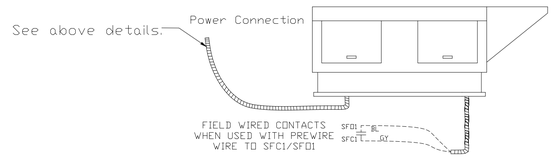
240 V 1 PH.



208/460/600 V 3 PH.



STANDING POWER
RD & WH Wire (115V, 1 PHASE)
OPTIONAL FOLLOW FAN
SCHEMATICS



Installed Options

Field Wired Switch

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

NOTES

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GN - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	

REVISIONS

	DESCRIPTION	DATE:
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DWG.#: 8387988

DRAWN BY: AMG-54

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

MASTER DRAWING

SHEET NO. 7

ELECTRICAL PACKAGE – JOB#8387988

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-311110MA	WALL UTILITY CABINET LEFT	SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	2.000	208	8.3
							HMUA-1	SUPPLY	3	1.000	208	3.8

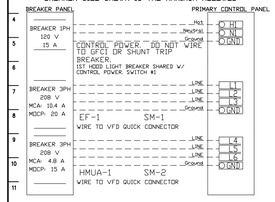
JOB NO 8387988 | MODEL NUMBER SC-311110MA | JOB NAME Buffalo Puttz (RS) | DRAWN BY | DATE 12/2/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan,1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Hands On/Off thermostatic control with fan temperature sensor shipped loose for Field Installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

BREAKER PANEL TO PRIMARY CONTROL PANEL

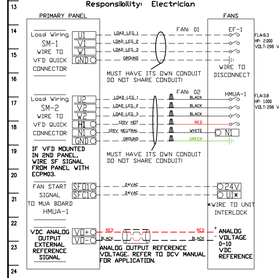
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



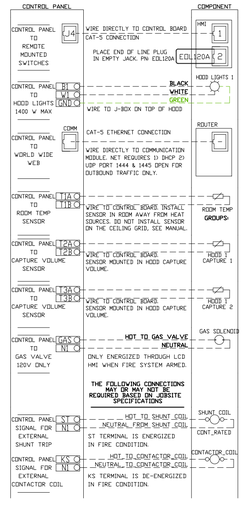
CONTROL PANEL TO FANS

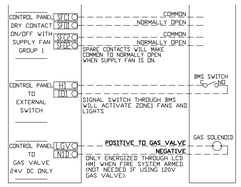
Responsibility: Electrician



CONTROL PANEL TO ACCESSORY ITEMS

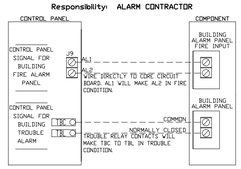
Responsibility: Electrician





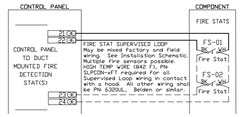
CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR



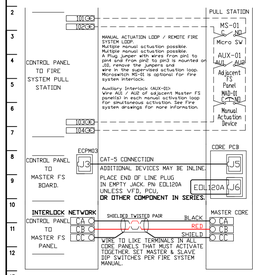
CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER



JOB NO 8387988 | MODEL NUMBER SC-311110MA | JOB NAME Buffalo Puttz (RS) | DRAWN BY | DATE 12/2/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan,1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Hands On/Off thermostatic control with fan temperature sensor shipped loose for Field Installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.



JOB NO 8387988 | MODEL NUMBER SC-311110MA | JOB NAME Buffalo Puttz (RS) | DRAWN BY | DATE 12/2/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 4S/4S/4S. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Wall Mounted Utility Cabinet with integral hood prewire panel.

WALL MOUNT UTILITY CABINET TANK PROTECTION ELECTRICAL DETAIL

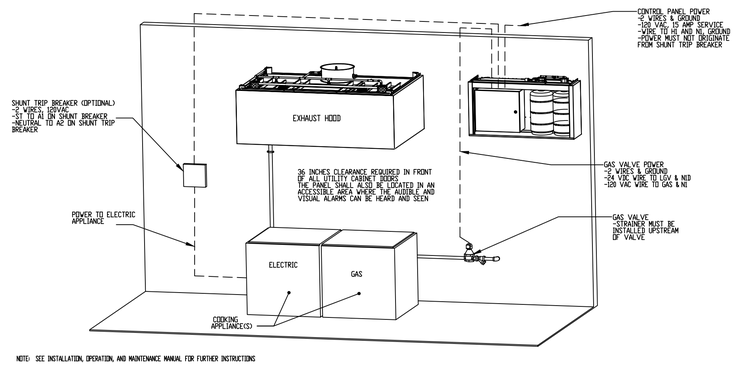
10/01/2023 Rev. 03

FS-1: MASTER

ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 8387988 | MODEL NUMBER SC-311110MA | JOB NAME Buffalo Puttz (RS) | DRAWN BY | DATE 12/2/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-4

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 4S/4S/4S. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Wall Mounted Utility Cabinet with integral hood prewire panel.

WALL MOUNT UTILITY CABINET TANK PROTECTION LOW-VOLTAGE DETAIL

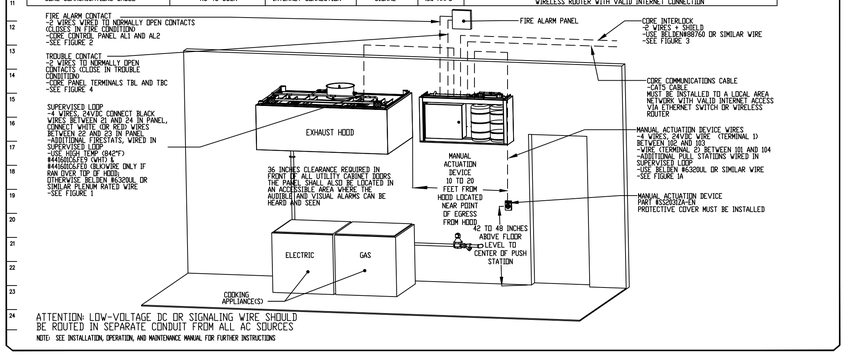
10/01/2023 Rev. 3

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 10 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION STI-SS318
REMOTE FIRESTAT SENSOR(S)	24 AND 24 25 AND 23	BLACK AND WHITE	24 VDC	< 10 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) 84410020ASTS (WHT) & 84410020ASTS (BLK)WIRE OR SIMILAR ONLY IF RAN OF HOOD, OTHERWISE BELDEN 86320UL OR SIMILAR PLENUM RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) CA, TO CORE SYSTEM (2) CA. CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB. CORE SYSTEM (1) CC, TO CORE SYSTEM (2) CC. USE BELDEN 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

REVISIONS

	DESCRIPTION	DATE:
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CAPTIVE AIRE
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DATE: 12/2/2025

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SCALE: 3/4" = 1'-0"

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