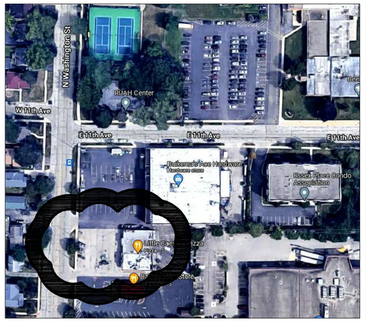
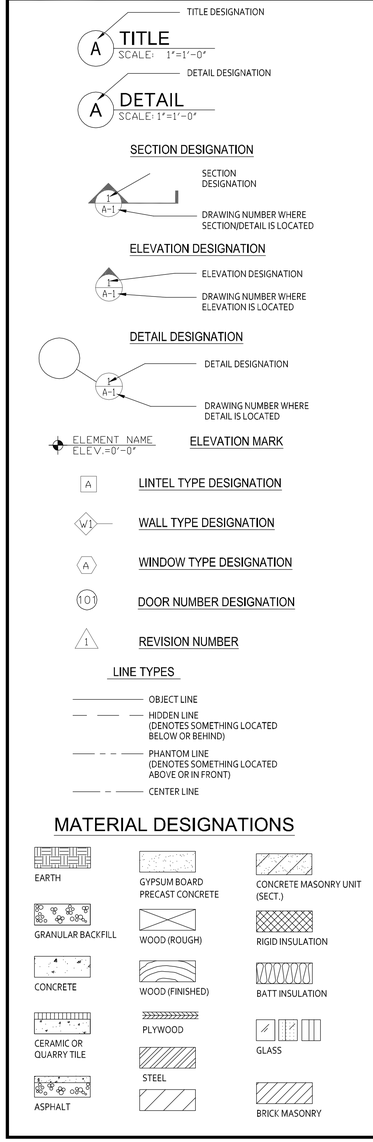
TENANT SUBDIVIDE - JIMMY JOHN'S
1012 N. WASHINGTON STREET, NAPERVILLE

LOCATION MAP



DRAFTING SYMBOLS



MATERIAL DESIGNATIONS

CONSTRUCTION NOTES

1. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL CONDITIONS SHOWN ON DRAWINGS AT THE JOB SITE AND SHALL NOTIFY OWNER OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS PROJECT.

2. ALL WORK THAT NECESSITATES THE SHUTTING DOWN OF A BUILDING SYSTEM FOR THE TIE-IN OR ALTERATION PURPOSES SHALL BE COORDINATED WITH THE OWNER AND/OR GENERAL CONTRACTOR AS PER THEIR DIRECTION.

GENERAL NOTES

1. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS, PRIOR TO SUBMITTING THEIR BID(S), SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE AND VERIFY THE EXTENT AND NATURE OF THIS PROJECT.

2. IF AT ANY TIME, PRIOR TO AND DURING CONSTRUCTION, A DISCREPANCY, OMISSION, AND/OR CONFLICT IS DISCOVERED, NOTIFY OWNER & ARCHITECT FOR CLARIFICATION AND/OR RESOLUTION.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND ACQUISITION OF ALL NECESSARY BUILDING PERMITS. PERMITS ARE TO BE POSTED ON JOB SITE.

4. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE PLANS, ELEVATIONS AND SECTIONS.

5. CONTRACTOR SHALL NOTIFY THE OWNER AND/OR BUILDING OWNER OF ANY UNFORESEEN JOB CONDITIONS WHICH MAY AFFECT PROJECT COST. EXTRA WORK AND/OR EXTRA COSTS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION OF SUCH WORK.

6. CONTRACTOR(S) SHALL NOT REMOVE ANY MATERIALS, (SIDELIGHTS, DOOR ASSEMBLIES, LIGHT FIXTURES, ETC.) FROM AREAS NOT IN CONTRACT (N.I.C.) UNLESS ILLUSTRATED AS DEMOLITION AND NOTED AS RE-LOCATED IN THESE DOCUMENTS OR CONTRACTOR HAS WRITTEN APPROVAL FROM BUILDING OWNER/MANAGEMENT TO DO SO.

7. ALL CONSTRUCTION SHALL CONFORM TO ALL STATE AND LOCAL BUILDING CODES FOR WORK OF THIS TYPE.

8. WHERE NEW WORK CONNECTS WITH EXISTING, ALL REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT, WHETHER OR NOT SHOWN OR INDICATED.

9. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER/MANAGEMENT FOR REGULATIONS INCLUDING BUT NOT NECESSARILY LIMITED TO: ELEVATOR USE, RUBBISH REMOVAL, PROTECTION OF BASE BUILDING CONSTRUCTION, AND ANY WORK WHICH WILL AFFECT OTHER TENANT'S OR OTHER PARTS OF THE BUILDING.

10. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFE GUARDS, BARRIERS, TEMPORARY POWER, LIGHTING, FIRE PROTECTION, ETC., AS REQUIRED DURING DEMOLITION/CONSTRUCTION.

11. ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH ALL OTHER TRADES. WORK SHALL BE PROPERLY SEQUENCED TO COINCIDE WITH THE PROJECT CONSTRUCTION SCHEDULE TO AVOID DELAY OF THE PROJECT COMPLETION OR THE WORK OF THE OTHERS.

12. THE GENERAL CONTRACTOR SHALL PROTECT AREA AND NEW OR EXISTING MATERIALS AND FINISHES FROM DAMAGE WHICH MAY OCCUR FROM CONSTRUCTION, DUST, WATER, ETC. DAMAGE TO EXISTING MATERIALS, FINISHES, STRUCTURE, AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE TENANT AND THE BUILDING OWNER/MANAGEMENT AT THE EXPENSE OF THE GENERAL CONTRACTOR.

13. ALL MATERIALS, METHODS OF INSTALLATION AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITIONS, CEILINGS, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURERS' SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED USE.

14. THE GENERAL CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS OF ALL SUBCONTRACTORS AND TRADES ON A DAILY BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING ANY FINISHED AREA, WHETHER WITHIN OR OUTSIDE THE JOB SITE.

HEALTH DEPARTMENT

EQUIPMENT NOTES:

1. ALL FOOD SERVICE EQUIPMENT IS TO BE COMMERCIAL AND MEET THE STANDARDS REGARDING DESIGN, MATERIALS, AND WORKMANSHIP OF THE NATIONAL SANITATION FOUNDATION INTERNATIONAL (NSF). AN NSF OR OTHER RECOGNIZED RESTING AGENCY EQUIPMENT MUST HAVE NSF SEAL. UNMARKED EQUIPMENT MAY NOT MEET THE STANDARDS, AND REQUIRE REPLACEMENT.

2. INSTALL TABLE-MOUNTED EQUIPMENT ON 4" LEGS, OR SEAL THE EQUIPMENT TO THE TABLE USING SILICONE CAULK, UNLESS IT IS PORTABLE. PORTABLE EQUIPMENT SHALL WEIGHT LESS THAN 75 LBS, AND CONTAIN NO RIGID UTILITY CONNECTIONS. TABLE MOUNTED EQUIPMENT PIECES SHALL BE AT LEAST 6' APART FOR CLEANING ACCESS.

3. FLOOR MOUNTED EQUIPMENT SHALL BE INSTALLED (IF POSSIBLE) ON CASTERS. PROVIDE CASTERS FOR GRIDDLES, BROILERS, REACH IN REFRIGERATION COOLERS, BEVERAGE COOLER, RANGES, AND ALL COOKLINE EQUIPMENT. CASTER SHALL BE OF COATED STEEL, AND HAVE COMMERCIAL GRADE UTILITY CONNECTIONS THAT ARE SMOOTH AND FLEXIBLE WITH QUICK DISCONNECTS. CASTERS MUST MEET NSF STANDARDS. CONNECTIONS MUST BE LONG ENOUGH TO MOVE THE EQUIPMENT SO THAT THE AREA BEHIND EQUIPMENT CAN BE CLEANED.

4. INSTALL EQUIPMENT, OTHER THAN PORTABLE EQUIPMENT, WITH SUFFICIENT SPACE BETWEEN ADJACENT EQUIPMENT, FLOORS, WALLS, CABINETS, AND CEILINGS TO FACILITATE PROPER CLEANING. FLOOR-MOUNTED EQUIPMENT INSTALLED ON LEGS MUST HAVE A MINIMUM FLOOR CLEARANCE OF 6" CLEARANCE SHALL BE MEASURED FROM THE LOWEST OBSTRUCTION UNDER THE PIECE OF EQUIPMENT.

5. THE EQUIPMENT'S DIMENSIONS DETERMINE THE SPACE NEEDED FOR CLEANING ACCESS:
A. MAINTAIN 8" OF SPACING WHEN THE AREA TO BE CLEANED IS LESS THAN 4' LONG
B. MAINTAIN 18" OF SPACING WHEN THE AREA TO BE CLEANED IS 4' LONG OR GREATER.

6. 100% SILICONE CAULK SHALL BE USED TO SEAL CLEANABLE TRIM AREAS INCLUDING SPACES BETWEEN NON-PORTABLE EQUIPMENT, ACCESS TO CABINET VOIDS, AROUND PIPES, AND WALL-MOUNTED EQUIPMENT. THE SILICONE BEAD MUST BE SMOOTHED AND COVED 3/8" RADIUS.

7. SEAL ALL SPACES BETWEEN FLOORING AND WALL INTERFACES THAT ARE LARGER THAN 1/32" AND SMALLER THAN 6". SEAL ALL GAPS, VOIDS AND PROTRUSIONS USING SILICONE CAULK OR TRIM THAT MEETS THE FINISH MATERIAL STANDARD.

8. KEEP ALL EXPOSED UTILITY LINES TO A MINIMUM. ALL EXPOSED LINES SHALL MAINTAIN CLEARANCES OF AT LEAST 6" FROM FINISHED FLOOR, AND AT LEAST 1/2" AWAY FROM WALLS AND CEILINGS. ALL GAS COOKING EQUIPMENT TO BE INSTALLED WITH NSF/ANSI APPROVED POLYCOATED GAS LINES WITH QUICK DISCONNECT GAS LINES

9. ALL SINKS FOR EMPLOYEE OR PUBLIC USE (OTHER THAN LAVATORY SINKS) SHALL BE A MAXIMUM OF 6 1/2" DEEP AND MOUNTED WITH THE TOP EDGE A MAXIMUM OF 34" ABOVE THE FLOOR.

HEALTH DEPARTMENT

CLEAN AREA LIGHTING NOTES:

1. FOOD PREPARATION AND UTENSIL WASHING AREAS MUST BE WELL LIT. A LIGHT INTENSITY OF 100 FOOTCANDLES MEASURED 30" ABOVE THE FLOOR IS REQUIRED.

2. LIGHTING IN WALK-IN COOLER AND FREEZERS MUST PROVIDE AT LEAST 50 FOOTCANDLES OF LIGHT THROUGHOUT. INSTALL TWO INCANCESCENT LIGHTS OR FLUORESCENT LIGHTS WITH VAPOR-PROOF LENSES. INSTALL LIGHTING SO THAT FIXTURE WILL NOT BE OBSTRUCTED BY FOOD STORED ON SHELVES. MINIMUM 2 FIXTURES REQUIRED.

KITCHEN & COOKLINE FINISH NOTES:

1. ALL FLOOR FINISHES IN FOOD PREP AND FOOD STORAGE AREAS SHALL BE OF DURABLE LIGHT-COLORED, WATERPROOF, GREASE-RESISTANT AND EASILY CLEANABLE MATERIAL. SEE ROOM FINISH SCHEDULE FOR TILE LOCATION. PREP FLOOR FOR TILE APPLICATION. TILE BASE TO MATCH FLOOR MATERIAL.

2. FLOOR BASE SHALL BE PROVIDED AT JUNCTURE OF THE FLOOR AND WALL OR CABINET. COVING SHALL HAVE 3/8" RADIUS.

3. ALL WALLS TO HAVE A SMOOTH AND EASILY CLEANABLE SURFACE THAT HAS A LIGHT-COLORED FINISH. PROVIDE FIBERGLASSS REINFORCED PANELS (FRP) AS SHOWN ON DRAWINGS AND ROOM FINISH SCHEDULE.

4. ALL CEILING FINISHES IN FOOD PREP AND FOOD STORAGE AREAS SHALL BE SMOOTH, NON ABSORBENT, VINYL FACED, LIGHT COLORED CEILING PANELS. PANEL MUST BE WASHABLE, EXPOSED JOINTS, STUDS, OR OTHER SUPPORT STRUCTURES ARE NOT ACEPTABLE.

REFLECTED CEILING PLAN NOTES

1. ALL CEILING HEIGHTS PER PLAN - VERIFY EQUIPMENT CONFLICTS WITH TH ARCHITECT.REFER TO ROOM FINISH SCHEDULE FOR EXISTING CEILING HEIGHTS AND CEILING FINISHES.

2. COORDINATE WITH ELECTRICAL AND MECHANICAL CONTRACTORS FOR NEW LOCATIONS (IN RENOVATED AREAS ONLY) OF AIR DIFFUSERS, AND LIGHTING FIXTURE RELOCATIONS/INSTALLATIONS

3. SEE ROOM FINISH SCHEDULE FOR ALL PAINTING REQUIREMENTS. PAINT ALL NEW GYPSUM BOARD CEILINGS AND SOFFITS.

STORAGE AREA NOTES:

1. ALL KITCHEN SHELVING MUST MEET NSF STANDARDS, SHELVES SHALL BE CONSTRUCTED OF METAL OR MATERIAL WHICH HAS BEEN FINISHED SO AS TO HAVE SMOOTH, EASILY CLEANABLE, NON-ABSORBANT SURFACES. SHELVES SUBJECT TO HEAT OR MOISTURE MUST BE OF RUST-RESISTANT METAL OR COATED.

2. ALL SHELVING IN REFRIGERATORS AND FREEZERS MUST MEET NSF STANDARDS. ALL SHELVING INSTALLED IN REFRIGERATORS MUST BE RUST-RESISTANT METAL OR OTHER IMPERVIOUS MATERIAL.

ELECTRIC & PLUMBING

1. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL POWER IN AREAS OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION AND SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR DEMOLITION CONTRACTOR.

2. ALL ELECTRICAL ITEMS BEING REMOVED SHALL BE DISCONNECTED AT THE CIRCUIT PANEL.

3. ALL PLUMBING TO BE REMOVED SHALL BE CAPPED AT SOURCE.

FIRE DEPARTMENT

1. A KNOX BOX SHALL BE ISSUED AND PLACED WITHIN AN ACCESSIBLE LOCATION FOR THE USE OF THE LOCAL FIRE DEPARTMENT. IFC-506.1

2. PROVIDE ADDRESS PLAQUARDS READILYVISIBLE WITH CONTRASTING COLORS. NUMBERS SHALL BE MIN. 4" TALL AND MIN. STROKE WIDTH OF 1/2". LOCATE AT THE FRONT AND REAR ENTRANCES. IFC-505.1

3. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NFPA#10 AND IFC SEC. 906. INSTALL PRIOR TO FINAL INSPECTION

4. EXIT SIGNS SHALL BE LOCATED AT THE EXTERIOR EXIT DOORS AS PER IBC 1011.5.1
AS WELL AS AN OCCUPANCY PLAQUARD

5. ALL ELECTRIC AND GAS APPLIANCES ARE TO BE DE-ACTIVATED WITH THE ACTIVATION OF THE FIRE ALARM SYSTEM.

6. ALL FIRE ALARM WIRING IS TO BE IN EMT CONDUIT 100% W/ J-BOXES PAINTED RED.

ACCESSIBILITY NOTES

1. ALL FIXTURES AND ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH ALL CITY/VILLAGE, A.D.A., ILLINOIS HANDICAP REGULATIONS AND ANSI, WHICHEVER IS MOST STRINGENT.

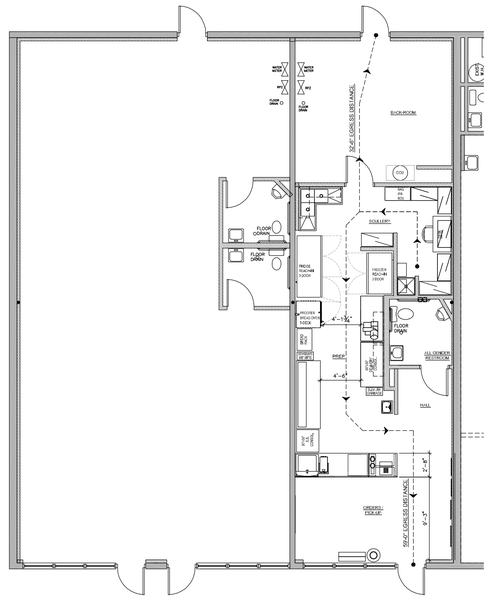
2. ALL THRESHOLDS MUST COMPLY WITH A.D.A., ILLINOIS HANDICAP REGULATIONS AND ANSI, WHICHEVER IS MOST STRINGENT.

3. PROJECTING ACCESSORIES MUST BE LOCATED SO THEY WILL NOT INTERFERE WITH THE USE OF GRAB BARS AND WILL KEEP THE WHEELCHAIR AREA FREE.

4. EACH HANDICAP WASHROOM SHALL HAVE A 5'-0" DIAMETER CLEAR TURNING AREA.

5. ACCESSIBLE PARKING SHALL BE PROVIDED FOR THE TENANT SPACE WITH A MINIMUM $250 FINE FOR PARKING IN THE ACCESSIBLE PARKING SPACE.

EGRESS PLAN - MAXIMUM TRAVEL DISTANCE = 59'-0"



DRAWING SHEET INDEX

DWG.No.	DRAWING TITLE
ARCHITECTURAL	
A-0.0	COVER PAGE - EGRESS PLAN - GENERAL NOTES - CODE INFO
A-1.0	FRONT ELEVATION - STOREFRONT ELEVATION - ROOF PLAN
A-1.1	STRUCTURAL PLAN - DETAILS - STRUCTURAL STEEL CALCULATIONS
A-2.0	FLOOR PLAN - DEMOLITION PLAN - PARTITION DETAILS
A-2.1	EQUIPMENT PLAN - DOOR SPECIFICATIONS AND NOTES
A-2.2	REFLECTED CEILING PLAN - CROSS SECTIONS / ELEVATIONS - FINISH SCHEDULE
A-3.0	HANDICAP CLEARANCES AND REQUIREMENTS
MECHANICAL-ELECTRIC-PLUMBING	
MEP-1.0	MECHANICAL EQUIPMENT FLOOR PLAN - SCHEDULE
M-1.0	MECHANICAL FLOOR PLAN - NOTES
M-1.1	MECHANICAL ROOF PLAN - GAS PIPING
M-2.0	MECHANICAL - NOTES
M-2.1	MECHANICAL - NOTES - SCHEDULES
M-2.2	MECHANICAL -DETAILS - SYMBOL LIST
E-1.0	ELECTRICAL EQUIPMENT / POWER LAYOUT
E-1.1	ELECTRICAL LIGHTING LAYOUT
E-1.2	ELECTRICAL ROOF PLAN
E-2.0	ELECTRICAL NOTES - SYMBOL LIST
E-2.1	ELECTRICAL SERVICE - PANEL SCHEDULE, FIXTURE SCHEDULE
P-1.0	PLUMBING PLAN
P-2.0	PLUMBING - NOTES - SCHEDULES
P-2.1	PLUMBING - RISER DIAGRAMS - DETAILS

BUILDING CODE ANALYSIS

CONSTRUCTION TYPE FIRE SUPPRESSION	2B ALARM - NO FIRE SPRINKLERS
USE GROUP ADJACENT USE GROUP DEMISING PARTITIONS	(B) BUSINESS (ASSEMBLY USE w/ LESS THAN 50 PERSONS) (B) BUSINESS INTERIOR DEMISING WALLS B/W UNITS- 2 HR . UL 419
CODES USED	2018 International Building Code 2018 International Residential Code 2018 International Property Maintenance Code 2018 International Fire Code 2018 International Fuel Gas Code 2018 International Mechanical Code 2018 International Plumbing Code 2018 International Existing Building Code 2018 International Swimming Pool and Spa Code 2017 National Electric Code (NFPA 70) 2006 International Code Council Electrical Administrative Provisions 2018 Life Safety Code (NFPA 101) Illinois Energy Conservation Code, Current Edition National Fire Code (NFPA), Current Edition Illinois State Plumbing Code, Current Edition Illinois Accessibility Code, Current Edition Local Amendments per Naperville Municipal Code Federal Requirements: American with Disabilities Act Federal Fair Housing Act Department of Labor (OSHA) Safety Requirements.
SCOPE OF WORK TOTAL SQ. FT OF BUILD-OUT	INTERIOR - EXTERIOR REPAIR / RENOVATION TO EXISTING COMMERCIAL UNIT(S) TENANT SPACE SUBDIVIDE - TWO UNITS: 1012 N. WASHINGTON - 3,100 SF. CARRYOUT FOODSERVICE 1014 N. WASHINGTON - 3,900 SF. FUTURE TENANT SPACE - TENANT BUILDOUT PER SEPERATE PERMIT. TOTAL AREA 3,000 S.F.
INTERIOR FINISHES	CORRIDORS-CLASS II (0-75 FLAME SPREAD) OTHER SPACES- CLASS III (76-200 FLAME SPREAD)
OCCUPANCY CALCULATION	UNIT 1012 - 3,100 S.F. BUSINESS USE / 100 PP/SF (11.0) = 11 PERSON - OCCUPANCY UNIT 1014 - 3,900 S.F. BUSINESS USE / 100 PP/SF (11.0) = 19 PERSON - OCCUPANCY
EGRESS -MAX TRAVEL DISTANCE	MAX EGRESS PATH = 59'-0"
PLUMBING CODE REQUIREMENTS	UNIT 1014 - TO BE DETERMINED UNIT 1012 3,100 SF. - 18 MALE/ 18 FEMALE 1 MOP SINK 1 TOILET X 1 LAVATORY 1 DRINKING FOUNTAIN (BOTTLED WATER DISPENSER PROVIDED IN LIEU OF DRINKING FOUNTAIN) AS PER SECTION 890 TABLE B FOOTNOTE #4 AND SECTION 890.720 (F) NOTE: THIS RETAIL STORE IS TO BE A CARRY OUT FOOD SERVICE WITH 5 OR LESS EMPLOYEES - NO PUBLIC RESTROOM TO BE PROVIDED - SINGLE UNISEX RESTROOM ALLOWED BY ILLINOIS PLUMBING CODE 890.810 - b) 1) A) ii) . FOR EMPLOYEE USE ONLY.

STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE CODES LISTED IN THE BUILDING CODE ANALYSIS.

DATE: 10/11/2022

SIGNED: BRIAN GOULD

BRIAN J. GOULD 001-021417 REGISTERED ARCHITECT STATE OF ILLINOIS

LICENSE NUMBER: 001.021417 EXPIRATION DATE: 11/30/2024
DESIGN FIRM # 184.006610 EXPIRATION DATE: 04/30/2023

ISSUES AND REVISIONS :

NO.	BY:	DATE:	DESCRIPTION:
1	BLG	02/06/2023	PLAN REVISIONS PER NAPERVILLE BUILDING DEPARTMENT REQUEST

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TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE:
10/11/2022

SHEET NUMBER :

A-0.0

ELEVATION / PLAN NOTES:

E1. EQUIPMENT SCREENING– TO BE PROVIDED BY FUTURE BUILDING FACADE REMODEL / RENOVATION – FINISH FACADE HT. TO BE ABOVE TOP LEVEL OF ROOF–TOP EQUIPMENT –

2. NEW ALUMINUM & GLASS STOREFRONT. GLAZING TO BE HIGH PERFORMANCE WITH THERMAL BREAKS TO MEET 2018 IECC U–FACTOR REQUIREMENTS MAXIMUM U–VALUES – FIXED FENESTRATIONS / WINDOWS = 0.38 – DOORS = 0.77. – MULLIONS TO BE CLEAR ANODIZED ALUMINUM FINISH. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL.

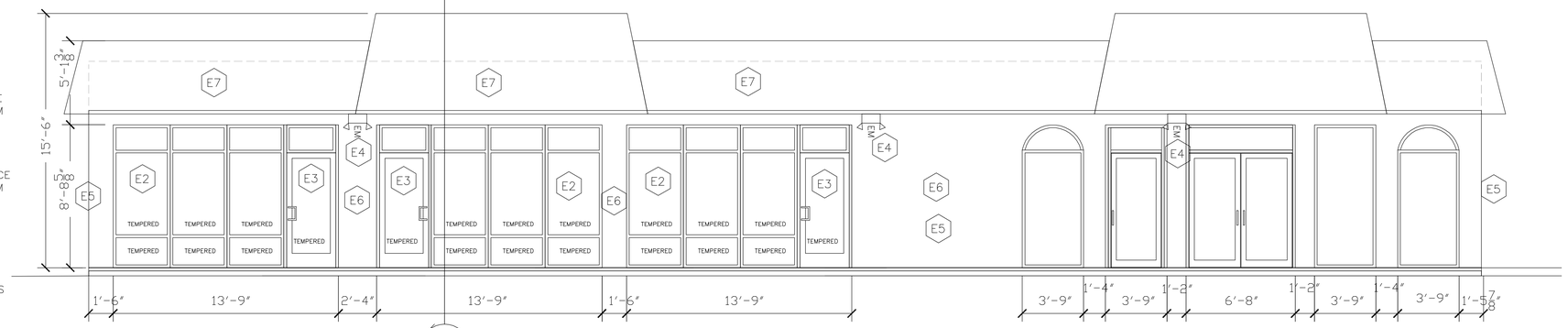
E3. NEW ALUMINUM & GLASS ENTRY DOOR. GLAZING TO BE HIGH PERFORMANCE WITH THERMAL BREAKS TO MEET 2018 IECC U–FACTOR REQUIREMENTS MAXIMUM U–VALUES – FIXED FENESTRATIONS / WINDOWS = 0.38 – DOORS = 0.77. – MULLIONS TO BE CLEAR ANODIZED ALUMINUM FINISH. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL. SEE DOOR SCHEDULE

E4. PROVIDE EXTERIOR RATED BATTERY BACK UP EMERGENCY LIGHT – SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS.

E5. INSPECT MASONRY ON EXISTING BUILDING. GRIND OUT ALL EXISTING JOINTS AND TUCKPOINT ALL SUBSTANDARD AREAS. COLOR MATCH MORTAR TO EXISTING.

E6. INFILL MASONRY TO MATCH EXISTING CONSTRUCTION.

E7. TENANT SIGNAGE TO BE PERMITTED UNDER SEPERATE PERMIT.



A PROPOSED WEST / FRONT ELEVATION
1/4" = 1'-0"

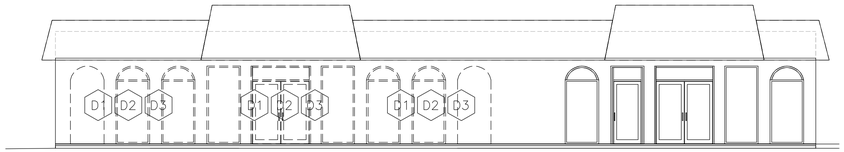
C
A–1

DEMOLITION NOTES:

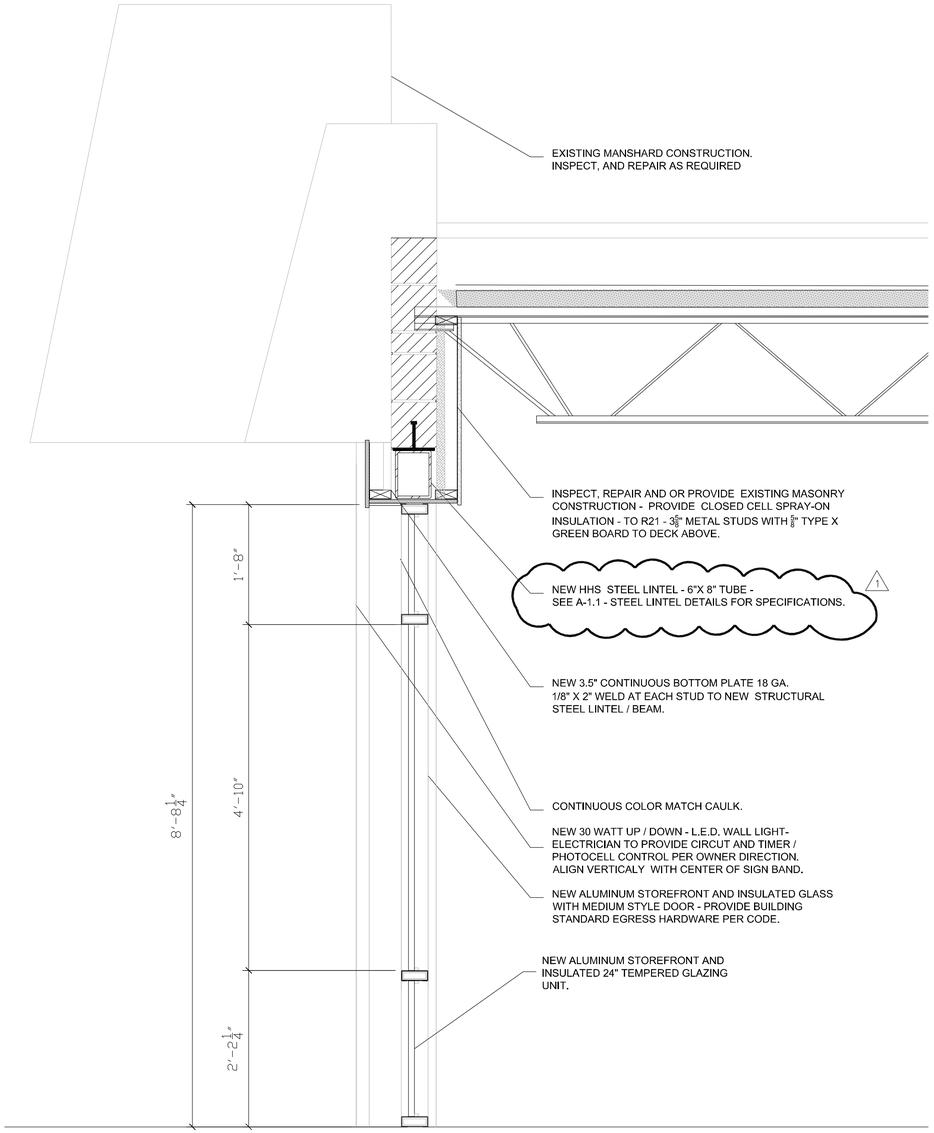
D1. EXISTING ALUMINUM AND GLASS WINDOW AND DOOR SYSTEMS TO BE REMOVED.

D2. REMOVE MASONRY AS REQUIRED FOR NEW STOREFRONT GLASS AND ENTRY DOORS – PROVIDE TEMPORARY SHORING / SUPPORT AS NEEDED DURING THE CONSTRUCTION WORK.

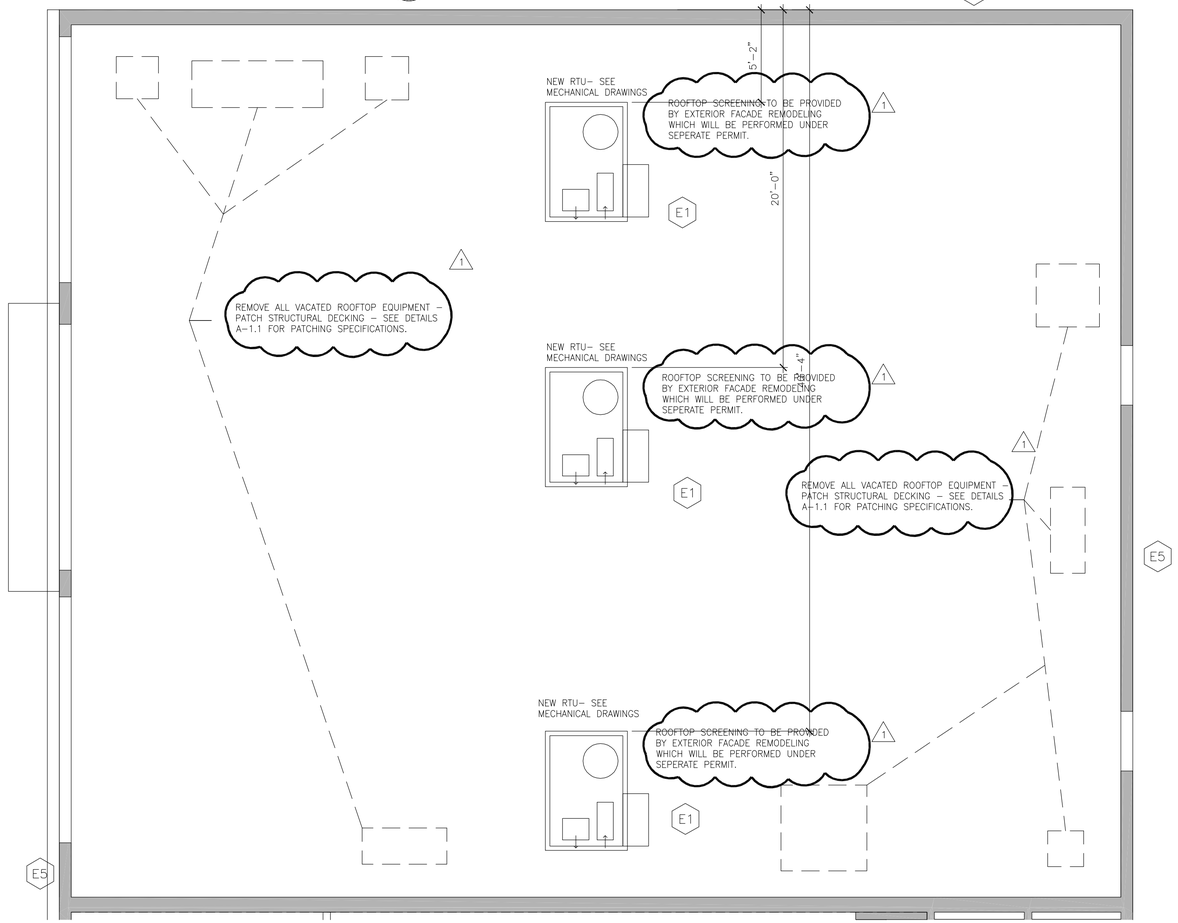
D3. PROVIDE SECURITY BOARD–UP AND SAFETY BARRICADES / PROTECTION TO THE PUBLIC WAY DURING CONSTRUCTION WORK.



B DEMOLITION ELEVATION PLAN
1/8" = 1'-0"



C PROPOSED WEST STOREFRONT DETAIL
1" = 1'-0"



D ROOF PLAN
1/8" = 1'-0"

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NO:	BY:	DATE:	DESCRIPTION:
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BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR:
JS Fort Group, Inc.
LOCATION:
JOB NUMBER:
DATE:
09/01/2022

LICENSED ARCHITECT BRIAN GOULD 001-021417 STATE OF ILLINOIS

SHEET NUMBER :
A-1.0

1 LINTEL CALCULATIONS

INPUT DATA & DESIGN SUMMARY

MEMBER SHAPE (Tube, Pipe, or WF) & SIZE		HSS8X6X1/4	< ==	W Shape
STEEL YIELD STRESS	F_y =	46	ksi	
AXIAL COMPRESSION FORCE	P =	0.5	kips, ASD	
STRONG AXIS EFFECTIVE LENGTH	KL_x =	13.5	ft	
WEAK AXIS EFFECTIVE LENGTH	KL_y =	6.75	ft	
STRONG AXIS BENDING MOMENT	M_{rx} =	5.5	ft-kips, ASD	
STRONG AXIS BENDING UNBRACED LENGTH	L_b =	13.5	ft, (AISC 360-05 F2.2.c)	
STRONG DIRECTION SHEAR LOAD, ASD	V_{strong} =	5	kips	
WEAK AXIS BENDING MOMENT	M_{ry} =	3.5	ft-kips, ASD	
WEAK DIRECTION SHEAR LOAD, ASD	V_{weak} =	3	kips	

THE DESIGN IS ADEQUATE.

ANALYSIS

CHECK COMBINED COMPRESSION AND BENDING CAPACITY (AISC 360-05, H1)

$$\left(\frac{P_r}{P_c}+\frac{8}{9}\left(\frac{M_{cx}}{M_{cx}}+\frac{M_{ry}}{M_{cy}}\right)\right),\ for\ \frac{P_r}{P_c}\geq 0.2$$

$$\left(\frac{P_r}{2P_c}+\left(\frac{M_{rx}}{M_{cx}}+\frac{M_{ry}}{M_{cy}}\right)\right),\ for\ \frac{P_r}{P_c}<0.2$$

= 0.98 < 1.0 **[Satisfactory]**

Where $P_c = P_n / \Omega_c$ = 843 / 1.67 = 504.88 kips, (AISC 360-05 Chapter E) > P_r **[Satisfactory]**

$M_{cx} = M_n / \Omega_b$ = 1278.44 / 1.67 = 765.53 ft-kips, (AISC 360-05 Chapter F) > M_{rx} **[Satisfactory]**

$M_{cy} = M_n / \Omega_b$ = 243.33 / 1.67 = 145.71 ft-kips, (AISC 360-05 Chapter F) > M_{ry} **[Satisfactory]**

CHECK SHEAR CAPACITY (AISC 360-05, G2)

$V_{n,strong} / \Omega_v$ = 559.0 / 1.67 = 334.8 kips > V_{strong} = 87.0 kips **[Satisfactory]**

$V_{n,weak} / \Omega_v$ = 630.0 / 1.67 = 377.2 kips > V_{weak} = 87.0 kips **[Satisfactory]**

1 RTU SUPPORT BEAM CALCULATIONS

EXISTING ROOF FRAMING CHECK FOR NEW RTU LOADS.

DESIGN CRITERIA

THE STRUCTURE HAS BEEN ANALYZED TO WITHSTAND LOADS IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE ILLINOIS BUILDING CODE 2018.

DESIGN LOADS AS PER ASCE 7-16

WIND LOAD.....107 MPH ULTIMATE
SNOW LOAD Pg.....25 PSF OPEN STRUCTURE, NO SHEATHING.
DEAD = SELF WEIGHT.
See Appendix for ASCE Hazard Report

RTU LOADS IMPOSED ON W16x26 AND W21x55

TRIB WIDTH 29.25'
DEAD = 585 PLF
LIVE = 880 PLF
EQUIPMENT 550 LBS (2 ON W21, 1 ON W16)

W16x26 CHECK.

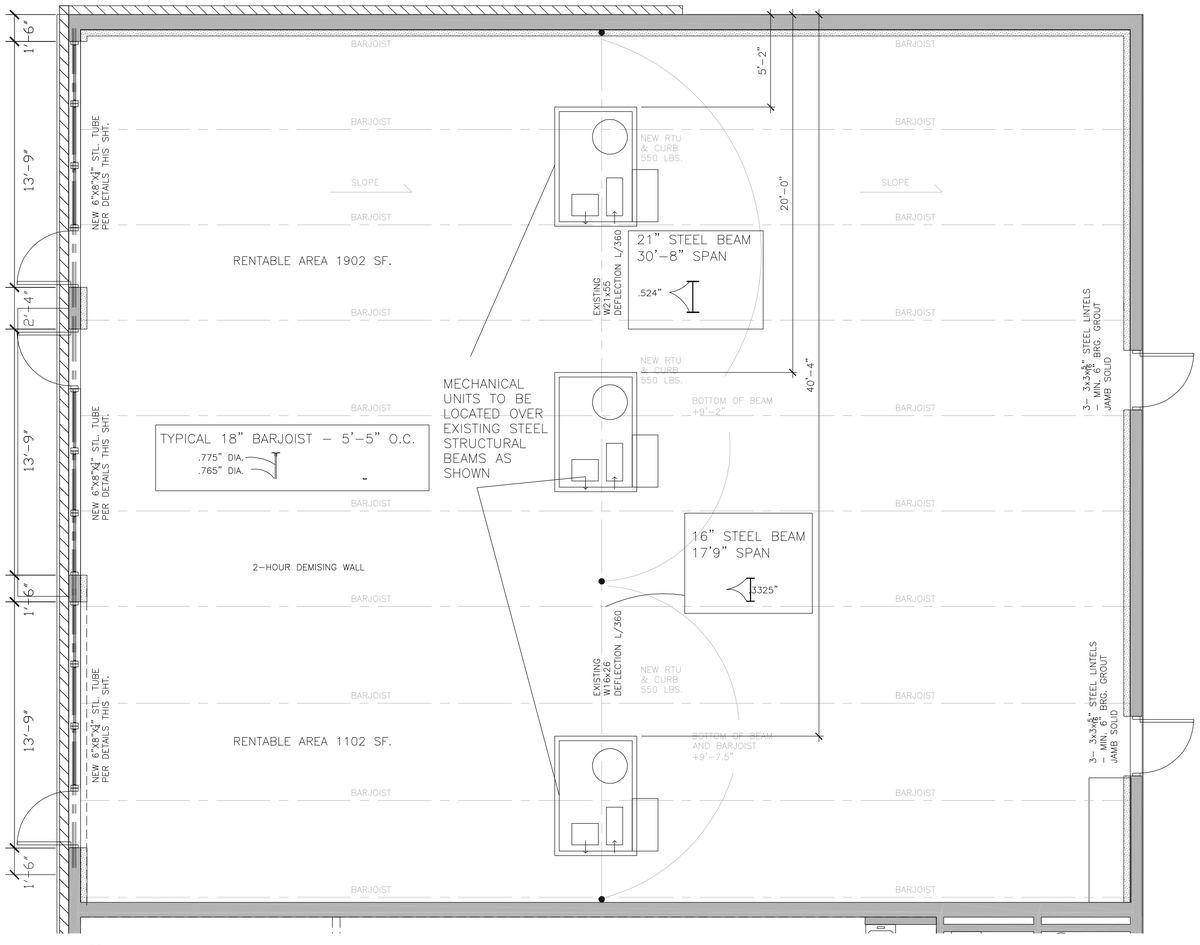
SPAN	17.75	FT	213	IN
DEAD LOAD	0.585	K/FT	0.04875	K/IN
LIVE LOAD	0.98	K/FT	0.0817	K/IN
I (Moment of Inertia)			301	IN^4
DEFLECTION			0.400429	531.9292
LL DEFLECTION			0.250748	849.4583
Mu (k-ft)=	61.6341			
S req (IN^3) =	26.79744		38.4	

STRENGTH AND DEFLECTION ARE OK

W21x55 CHECK.

SPAN	30.667	FT	368.004	IN
DEAD LOAD	0.585	K/FT	0.04875	K/IN
LIVE LOAD	0.98	K/FT	0.0817	K/IN
I (Moment of Inertia)			1140	IN^4
DEFLECTION			0.942061	390.637
LL DEFLECTION			0.589917	623.8233
Mu (k-ft)=	183.9784			
S req (IN^3) =	79.99063		110	

STRENGTH AND DEFLECTION ARE OK



1 A STRUCTURAL PLAN
1/4" = 1'-0"

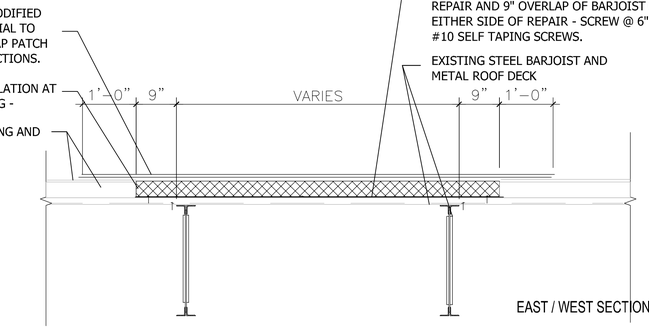
PROVIDE COMPAITABLE MODIFIED BITUMEN ROOFING MATERIAL TO MATCH EXISTING - OVERLAP PATCH 12" MINIMUM IN ALL DIRECTIONS.

PROVIDE NEW RIGID INSULATION AT DEPTH TO MATCH EXISTING -

EXISTING BITUMEN ROOFING AND RIDGID INSULATION.

NEW METAL "B" DECK TO MATCH EXISTING DECK 20ga MIN. - 9" MIN. OVERLAP ALL SIDES OF REPAIR AND 9" OVERLAP OF BARJOIST ON EITHER SIDE OF REPAIR - SCREW @ 6" O.C. W/ #10 SELF TAPING SCREWS.

EXISTING STEEL BARJOIST AND METAL ROOF DECK



EAST / WEST SECTION

PROVIDE COMPAITABLE MODIFIED BITUMEN ROOFING MATERIAL TO MATCH EXISTING - OVERLAP PATCH 12" MINIMUM IN ALL DIRECTIONS.

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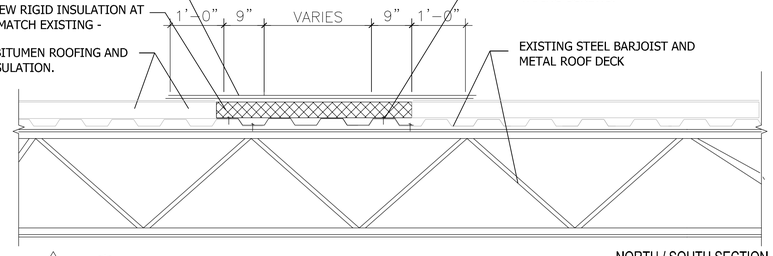
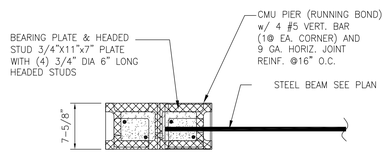
EXISTING STEEL BARJOIST AND METAL ROOF DECK

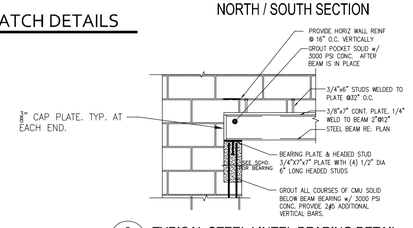


NORTH / SOUTH SECTION

1 B STRUCTURAL ROOF OPENING PATCH DETAILS
3/4" = 1'-0"



1 A-4.0 TYPICAL CMU PIER AT NEW LINTEL
SCALE: N.T.S.



2 A-4.0 TYPICAL STEEL LINTEL BEARING DETAIL
SCALE: N.T.S.

1 C STOREFRONT LINTEL DETAILS
NTS

ISSUES AND REVISIONS :

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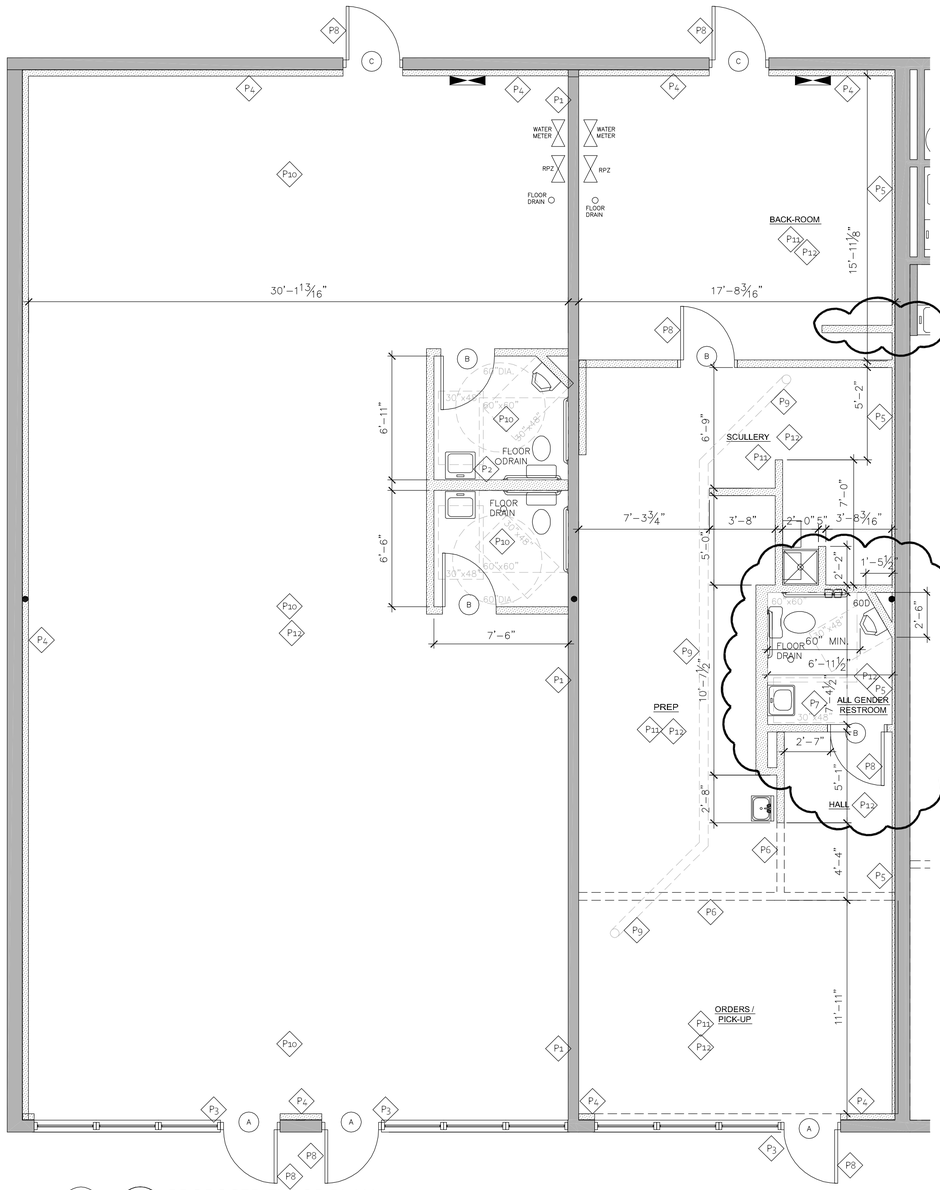
TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

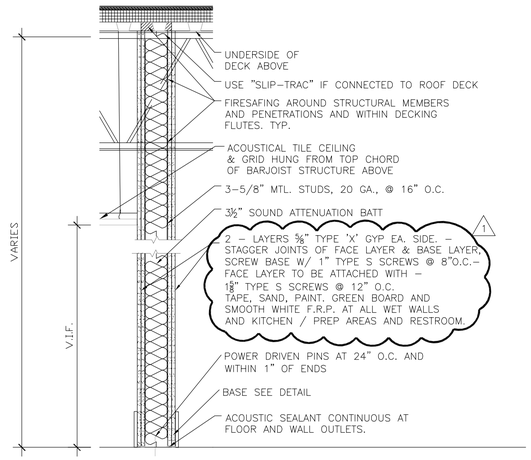
DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE:
02/06/2023

LICENSED ARCHITECT BRIAN L GEVALD 001-021417 STATE OF ILLINOIS

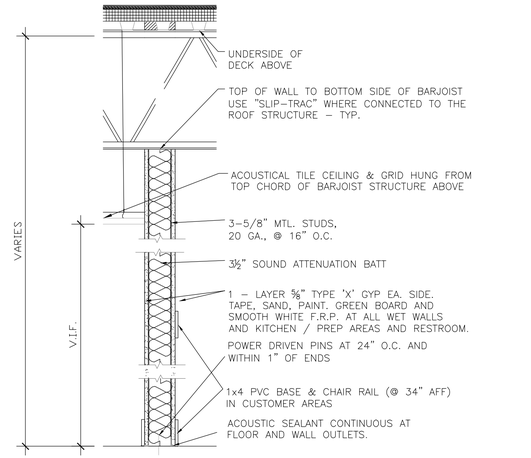
SHEET NUMBER :
A-1.1



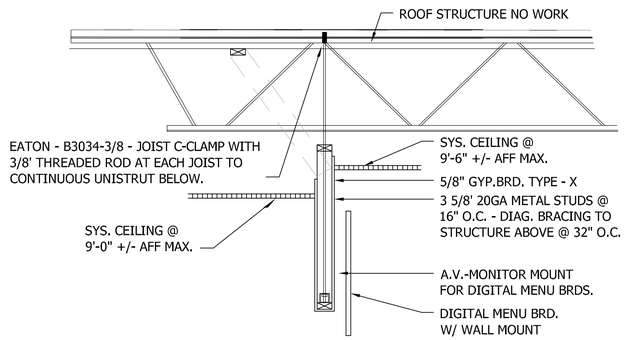
A PROPOSED FLOOR PLAN
1/4" = 1'-0"



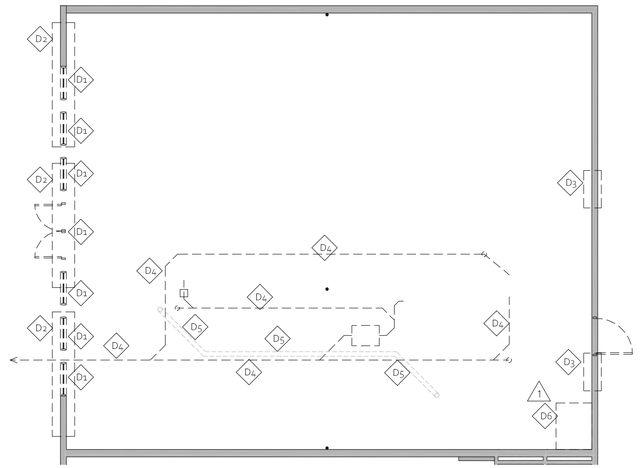
P1 / A-2.0 DEMISING WALL DETAIL 2 HOUR U.L. 419



P2 / A-2.0 WALL DETAIL -



S1 / A-2.0 SOFFIT DETAIL
1" = 1'-0"



B DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION EXTERIOR & INTERIOR NOTES:

D1- REMOVE EXISTING ALUMINUM AND GLASS WINDOW AND OR DOOR UNITS - PROVIDE TEMPORARY SUPPORT AND BUILDING CLOSURE AS NEEDED FOR AREAS OF NEW CONSTRUCTION.

D2- REMOVE EXISTING MASONRY CONSTRUCTION AS NEEDED FOR NEW ALUMINUM AND GLASS SOREFRONT CONSTRUCTION. PROVIDE TEMPORARY SUPPORT AND BUILDING CLOSURE AS NEEDED FOR AREAS OF NEW CONSTRUCTION. - SEE STRUCTURAL PLAN FOR NEW STEEL SUPPORT LINTELS

D3 - REMOVE EXISTING MASONRY CONSTRUCTION AS NEEDED FOR EXTERIOR DOOR INSTALLATION. PROVIDE TEMPORARY SUPPORT AND BUILDING CLOSURE AS NEEDED FOR AREAS OF NEW CONSTRUCTION. SEE STRUCTURAL PLAN FOR NEW STEEL SUPPORT LINTELS - NEW DOOR AND REQUIRED DEMOLITION TO BE DETERMINED BY JIMMY JOHN'S DESIGNER / LAYOUT.

D4. SAW CUT AND EXCAVATE EXISTING SLAB AS REQUIRED FOR UNDERGROUND SEWER.

D5. SAW CUT AND EXCAVATE EXISTING SLAB AS REQUIRED FOR UNDERGROUND SODA LINE CHASE.

1 D6. INFILL EXISTING OPEN SLAB AREA - MIN 5" THICK - DRILL AND EMBED 4" - # 5 X 8" REBAR AT 12" O.C.

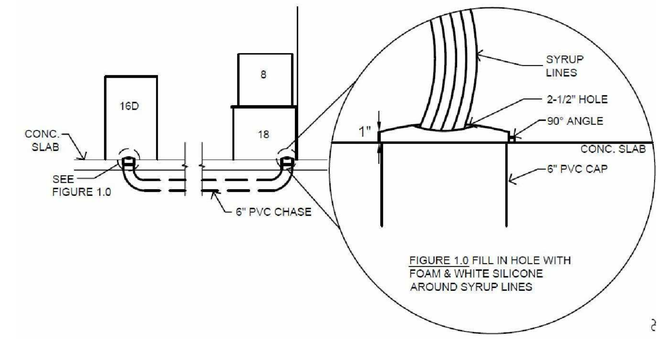


FIGURE 1.0 FILL IN HOLE WITH FOAM & WHITE SILICONE AROUND SYRUP LINES

SODA CHASE TERMINATION DETAIL
1 N.T.S.

PROPOSED & INTERIOR NOTES:

1 P1. PROVIDE AND INSTALL - NEW DEMISING WALL PER DETAIL P1/A-2.0 - UL 419 - 2 HOUR RATING. SEE FINISH SCHEDULE

P2. PROVIDE AND INSTALL - NEW PARTITIONS AS SHOWN - REFER TO P2/A-2.0 FOR SPECIFICATIONS. SEE FINISH SCHEDULE

P3. PROVIDE NEW INSULATED ALUMINUM AND INSULATED SAFTETY GLASS WINDOW UNITS AND DOORS - SEE STRUCTURAL PLANS FOR STRUCTURAL LINTEL REQUIREMENTS AND ELEVATIONS FOR LAYOUT - SEE DOOR SCHEDULE FOR HARDWARE SPECIFICATIONS.

1 P4. PROVIDE METAL STUD FURRING AND R-13 INSULATION AND VAPOR BARRIER WITH 5/8" GYP.BRD. REFER TO P4/A-2.1

1 P5. PROVIDE METAL STUD FURRING AND WITH 5/8" GYP.BRD. REFER TO P5/A-2.1

P6. PROVIDE SOFFIT - METAL STUD WITH 5/8" GYP.BRD. SEE DETAIL S1/A-2.0

P7. NEW RESTROOM LAYOUT - SEE A-4.0 - FOR LAYOUT AND SPECIFICATIONS.

P8. PROVIDE 3'-0" x 7'-0" DOOR AND FRAME PER DOOR SCHEDULE SPECIFICATIONS.

P9. PROVIDE 6" DIA. PVC SODA LINE CHASE - SEE DETAIL THIS SHEET.

P10. AVAILABLE VACANT SPACE WORK LIMITED TO WORK SHOWN. - RESTROOM(S) SHOWN ARE FOR FUTURE WORK TO BE COMPLETED UNDER SEPERATE PERMIT AND DESIGNED AS REQUIRED BY THE USE OF THE FUTURE TENANT AND NOT FOR FINAL OCCUPANCY.

P11. SEE EQUIPMENT PLAN - SHEET A-2.1 FOR EQUIPMENT LAYOUT AND SPECIFICATIONS.

P12. PROVIDE FINISHES PER WALL DETAILS AND FINISH SCHEDULE - SEE SHEET A-2.3 FOR FINISH SCHEDULE.

1 P13. PROVIDE PARTITION SUPPORT FOR EXISTING WATER SERVICE FEED TO ADJACENT TENANT UNITS - SEE PLUMBING PLANS FOR WATER SERVICE SPECIFICATIONS.

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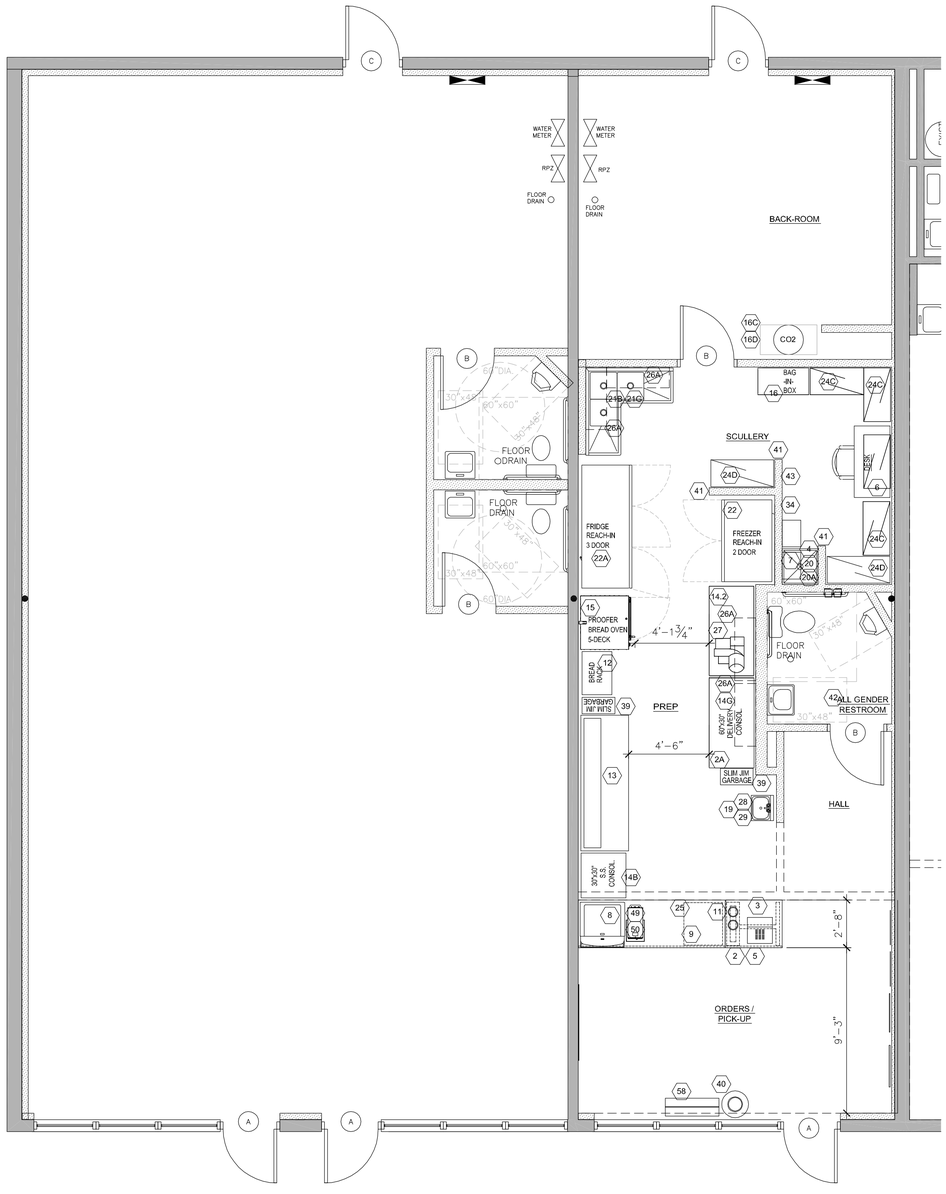
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON: BG
APPROVED : BG
PREPARED FOR : JS FORT GROUP, INC.
LOCATION :
JOB NUMBER :
DATE: 10/11/2022

LICENSED ARCHITECT BRIAN L. GOULD 001-001417 STATE OF ILLINOIS

SHEET NUMBER :
A-2.0



N

A PROPOSED FLOOR PLAN - DOORS AND EQUIPMENT
1/4" = 1'-0"

FIXTURE AND EQUIPMENT SCHEDULE

J.I. EQUIP. NO	QUANTITY	EQUIPMENT NAME	MANUFACTURER	FIXTURE & EQUIPMENT PLAN NOTES:	FRANCHISEE	CONTRACTOR	LANDLORD	ELEC. REQ.	PLUMB. REQ.	MECH REQ.
2	1	AVAYA 2554 FEATURE PHONE	AVAYA	REFER TO ELECTRICAL DRAWINGS	●	●				
2A	0	DRIVER SHELF	MID-WEST	PROVIDE SOLID BLOCKING- SEE ELEVATIONS & DETAIL B/A-10	●	●				
3	1	POS TERMINAL	-	120V (INSTALL DATA/POWER OUTLETS INSIDE CABINET)	●	●		●		
4	1	MOP RACKS	KEC		●	●				
5	1	34" HIGH CASH MILLWORK & COUNTER W/ ROLLING CHIP RACKS	MID-WEST	REFER TO CABINET DRAWINGS	●	●				
6	1	DESK AND SHELVES	QUANTUM	PROVIDED BY KEC EQUIPMENT - SEE 4/A-1.1	●			●		
7	1	WATER HEATER	RINNAI	REFER TO PLUMBING DRAWINGS		●		●	●	
8	1	ICE/BEVERAGE UNIT COUNTERTOP STYLE	-	120V - CORD AND PLUG (C&P) (INSTALL OUTLET IN CABINET) REFER TO PLUMBING DRAWINGS	●			●		
9	1	UNDERCOUNTER COOLER	-	120V - CORD AND PLUG (C&P) (INSTALL OUTLET IN CABINET)	●			●	●	
11	1	CUP DISPENSERS	SAN JAMAR		●	●				
12	1	SIDE LOADING BREAD RACK	KEC		●					
13	1	91" REFRIG. PREP TABLE AND 12"x 91" S.S. OVERSHELF	KAIRAK	120V-1/2 HP	●			●		
14B	1	STAINLESS 30"x30" S.S. TABLE	JOHN BOOS		●					
14C	1	STAINLESS 30"x60" S.S. DELIVERY TABLE	JOHN BOOS		●					
14.2	1	STAINLESS 60"X30" SLICER TABLE	JOHN BOOS		●					
15	1	4 DECK OVEN/PROOFER COMBINATION	PIPER PRODUCTS	208V - 3 PH - WIRE TO DISCONNECT	●	●		●		
16	1	BAG-N-BOX CARBONATE STOR.			●					
16C	1	HIGH PRESSURE CO2	-		●					
16D	1	CARBONATOR	COKE	SEE DETAILS ON A-1.1 AND P-1	●	●		●	●	
19	1	STAINLESS HAND SINK w/ FAUCET	UNIVERSAL	1/2" C.W.	●	●			●	
20	1	Z1996-24 MOP SINK w/ ZURN Z1996-SF FAUCET	ZURN	REFER TO PLUMBING DRAWINGS	●	●			●	
20A	1	MOP HEAD HOOKS	KEC	INSTALL (BENEATH THE WH SHELF, ABOVE FAUCET - SEE 5/A-1.1	●	●				
21B	1	"L" STAINLESS 3 COMPARTMENT SINK	JOHN BOOS	1/2" C.W. - 1/2" H.W. - (3) 1 1/2" DRAIN- (2) 18" WIDE DRAINBOARDS	●	●			●	
21C	1	SINK FAUCET (ZURN Z842H1.0002 w/OVERHEAD SPRAYER)	ZURN	REFER TO PLUMBING DRAWINGS	●	●			●	
22	1	2 DOOR REACH - IN FREEZER	HOSHIZAKI	115V (RECEPT. @ 72" A.F.F.)	●			●		
22A	1	3 DOOR REACH - IN COOLER	HOSHIZAKI	115V (RECEPT. @ 72" A.F.F.)	●			●		
24C	3	18"x36" WIRE SHELVING UNITS	QUANTUM		●					
24D	2	18"x42" WIRE SHELVING UNITS	QUANTUM		●					
26A	3	DISPLAY WALL SHELVES (14"x42")	QUANTUM	PROVIDE BLOCKING TO SECURE SHELVING UNITS SEE DETAIL 2/A-1.1 FOR MOUNTING HEIGHTS	●	●				
27	1	#GSP-HD ELECTRIC SLICER	BIZERBA	120V - 1/2 HP - CORD & PLUG	●			●		
28	1	PAPER TOWEL DISPENSER -T1755TBK	SAN JAMAR	PROVIDE IN WALL BLOCKING	●	●				
29	1	SOAP DISPENSER- INTERNATIONAL 32	UPDATE	PROVIDE IN WALL BLOCKING	●	●				
34	1	CUNO #15 WATER FILTER	CUNO	ENSURE EASY ACCESS TO THIS FILTER CARTRIDGE MOUNT TO WALL- TOP @ 8'-0" A.F.F. - SEE PLUMBING SHEETS	●	●			●	
25	1	SOFFIT MOUNTED MENU BOARD (30" X 120")	-	SEE SHEET A-9.1	●	●				
39	2	SLIM JIM TRASH CAN	KEC		●					
40	1	TRASH RECEPTACLE	RUBBERMAID	S3ET CLASSICS - OPEN TOP - 94L/25G	●					
41	5	STAINLESS STEEL CORNER GUARDS	ELKAY	ON OUTSIDE CORNERS OF TILE IN PREP AREA	●	●				
42	1	BATHROOM ACCESSORIES - NEW	BOBRICK - ZURN	REFER TO PLUMBING DRAWINGS AND SHEET A-5	●	●				
43	1	HCS-2 COAT RACK	GAMCO		●	●				
49	1	ICED TEA BREWER	BUNN-O-MATIC	120V - CORD AND PLUG (C&P) (INSTALL OUTLET IN CABINET) 1800 WATTS, 15 AMPS, 5-15 RECEPTACLE	●	●		●	●	
50	1	SEAMLESS STAINLESS STEEL ICED TEA DISPENSER	BUNN-O-MATIC		●					
58	1	PICKUP SHELF 34" x 18"	MIDWEST		●					

DOOR HARDWARE

DOOR TYPE A
1 1/2" PAIR BUTT HINGES
PANIC EXIT HARDWARE
KEYED LOCKSET ON EXTERIOR
ONLY-ALWAYS OPERABLE FROM INTERIOR- NO THROW BOLTS OR DEADBOLTS

DOOR TYPE B
1 1/2" PAIR BUTT HINGES
ADA LEVER TYPE HANDLE
PRIVACY LOCKSET

DOOR TYPE C
1 1/2" PAIR BUTT HINGES
PANIC EXIT HARDWARE
KEYED LOCKSET ON EXTERIOR
ONLY-ALWAYS OPERABLE FROM INTERIOR- NO THROW BOLTS OR DEADBOLTS

DOOR SCHEDULE ABBREVIATIONS

HM	HOLLOW METAL DOOR
HMI	INSULATED HOLLOW METAL EXTERIOR DOORS
WDSC	BIRCH VENEER WOOD - SOLID CORE
GLASS	FULL LITE GLASS AND ALUMINUM DOOR

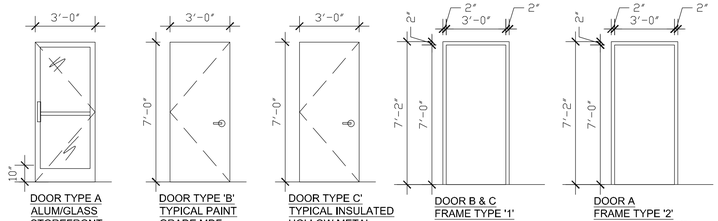
DOOR NOTES:

NOTE: ALL DOORS EXISTING AND TO REMAIN AND ANY NEW DOORS ARE INSTALLED, THE FOLLOWING SHALL APPLY:

1. ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE BY A LEVER WITHOUT THE USE OF A KEY.
2. ALL DOOR AND HARDWARE SHALL COMPLY WITH THE STATE OF ILLINOIS ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS. REPLACE EXISTING HARDWARE IF REQUIRED TO COMPLY WITH STATE AND FEDERAL REQUIREMENTS.
3. PAINT ALL HOLLOW METAL DOOR AND FRAMES.
4. STAIN ALL WOOD DOORS
5. EXTERIOR ENTRY DOORS TO BE SELF CLOSING AND TIGHT FITTING. ADD NEW THRESHOLD AND SWEEPS IF NECESSARY TO PREVENT ENTRANCE OF INSECTS AND RODENTS.
6. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" AND 48" A.F.F. THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL EXIT DOORS SHALL SWING AND MEET THE MAXIMUM OPENING FORCES REQ. IN ACCORDANCE WITH SECTION. (1003.3.1.8.3)

7. DOORS LABLED "A-EX" AND "C-EX" - REMOVE ANY EXISTING MANUAL FLUSH BOLTS/PINS FROM ANY EXISTING DOORS. REPLACE WITH NEW DOOR HARDWARE TO MATCH HARDWARE SPECIFICATIONS PER DOOR SCHEDULE / HARDWARE SPECIFICATIONS.
8. ALL NEW AND EXISTING EXTERIOR DOORS TO BE FULLY WEATHER STRIPED AND OR PROVIDE GASKETED FRAM E IF NEW - PROVIDE THRESHOLD SWEEP TYPE SEAL AT BOTTOM OF DOOR TO THRESHOLD.

DOOR & FRAME TYPES - ELEVATIONS



DOOR TYPE A
ALUM/GLASS STOREFRONT DOOR-

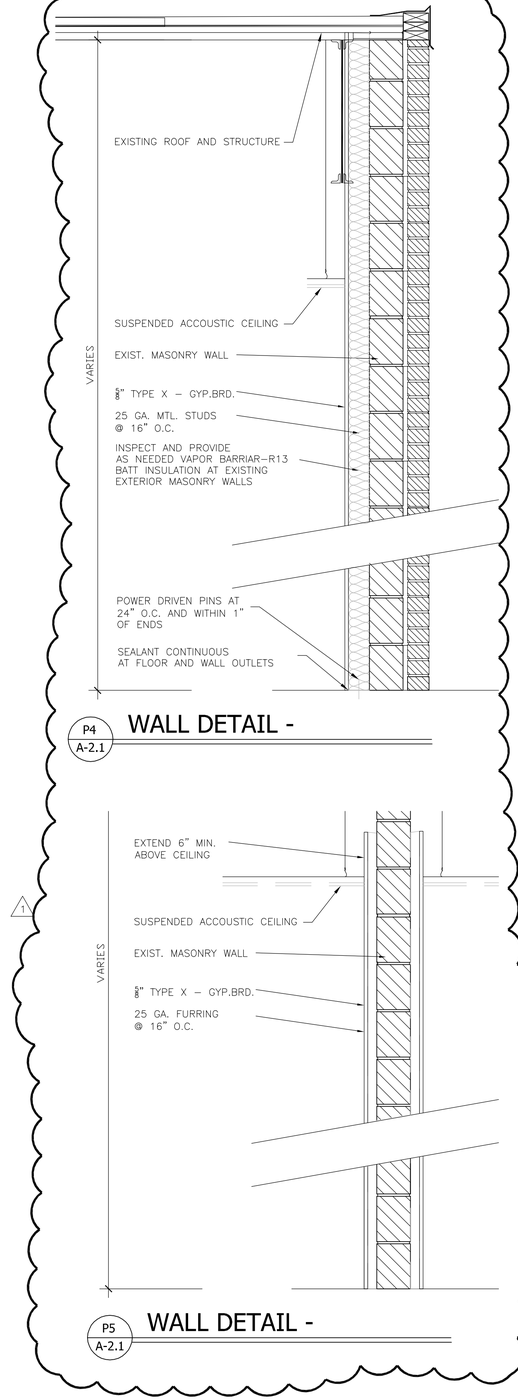
DOOR TYPE 'B'
TYPICAL PAINT GRADE MDF WOOD DOOR

DOOR TYPE C'
TYPICAL INSULATED HOLLOW METAL DOOR-

DOOR B & C
FRAME TYPE '1'
WELDED METAL JAMBS EXTERIOR FRAMES TO BE THERM. BREAK

DOOR A
FRAME TYPE '2'
INSULATED THERM. BREAK- ALUMINUM JAMBS AND HEADER

FRAME PROFILE



P4 / A-2.1 WALL DETAIL -

P5 / A-2.1 WALL DETAIL -

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APPROVED :
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JS FORT GROUP, INC
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LICENSED ARCHITECT BRIAN L GOULD 001-021417 STATE OF ILLINOIS

SHEET NUMBER :
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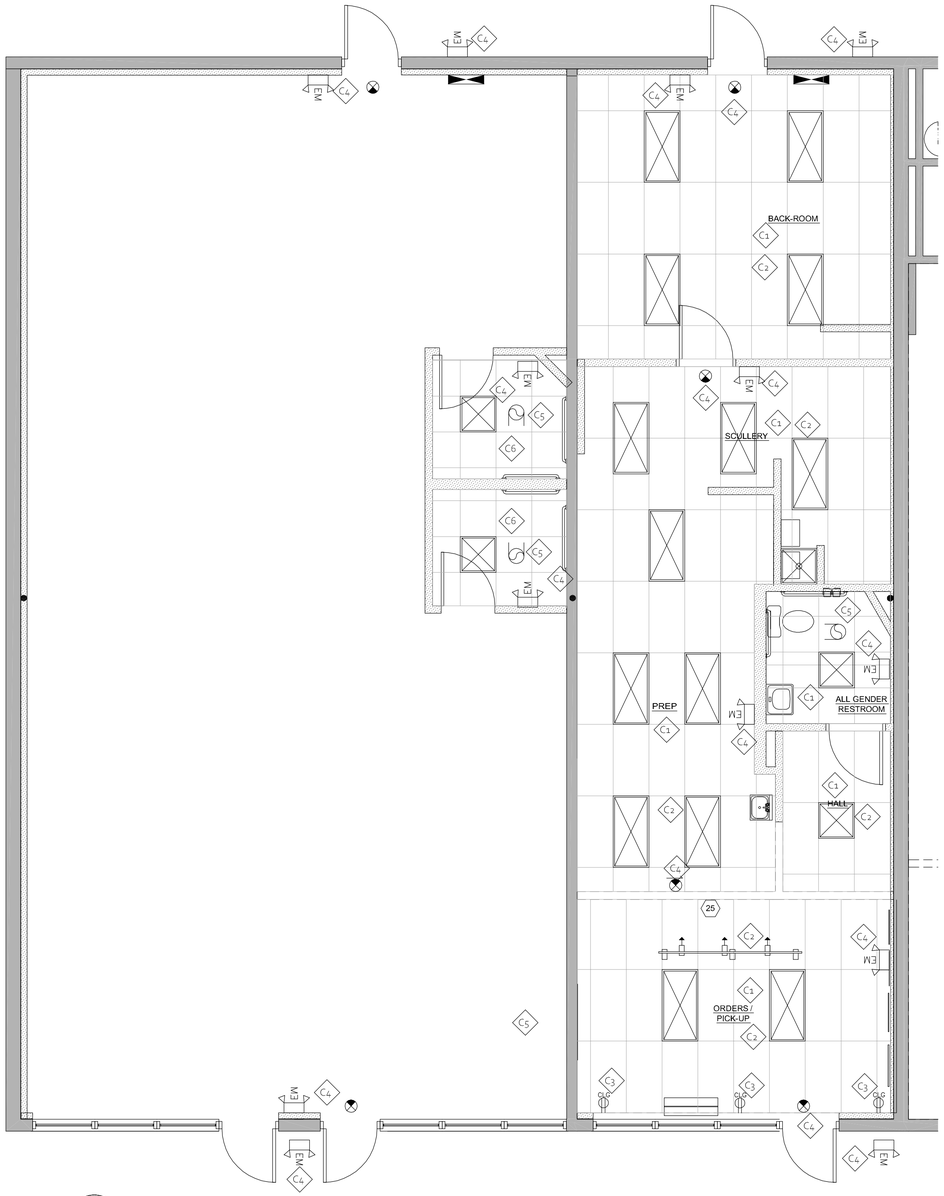
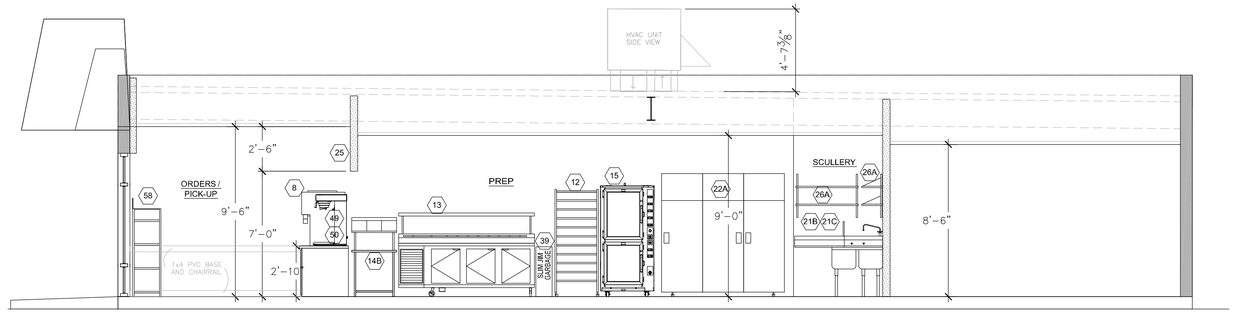
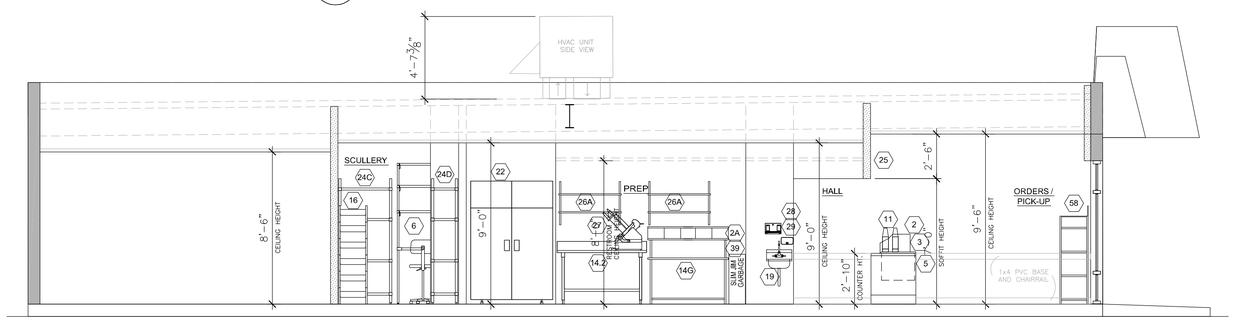


A PROPOSED CEING PLAN
1/4" = 1'-0"



B PROPOSED INTERIOR NORTH ELEVATION / SECTION
1/4" = 1'-0"



C PROPOSED INTERIOR SOUTH ELEVATION SECTION
1/4" = 1'-0"

CEILING PLAN NOTES:

C1. PROVIDE AND INSTALL - NEW 2x4 SUSPENDED CEILING GRID CEILING AND CEILING TILE PER FINISH SCEDULE. PROVIDE SPECIFICATION FOR TENANT APPROVAL.

C2. PROVIDE AND INSTALL LED LIGHT FIXTURES SEE ELECTRICAL DRAWINGS FOR SWITCHING AND SPECIFICATIONS.

C3. PROVIDE AND INSTALL DUPLEX OUTLETS ABOVE THE STOREFRONT - SEE ELECTRICAL DRAWINGSFOR SPECIFICATIONS.

C4. PROVIDE AND INSTALL LED EXIT / EMERGENCY LIGHT FIXTURES SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS.

C5. PROVIDE AND INSTALL RESTROOM EXHAUST FAN - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SWITCHING AND SPECIFICATIONS.

C6. FUTURE RESTROOM IMPROVEMENT TO BE COMPLETED UNDER SEPERATE PERMIT AT TIME OF TENANT BUILDOUT.

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS								CEILING	CEILING HEIGHT	NOTES
			NORTH		EAST		SOUTH		WEST				
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
ORDER / PICKUP	PL. CONC.	1x4 PVC	GYP. BD.	PT	GYP. BD.	PT	GYP. BD.	PT	GYP. BD.	PT	ACC	9-6" +/-	NEW 2x4 METAL GRID & TILE AS NOTED
HALL	PL. CONC.	1x4 PVC	GYP. BD.	PT	GYP. BD.	PT	GYP. BD.	PT	GYP. BD.	PT	ACC	9-6" +/-	NEW 2x4 METAL GRID & TILE AS NOTED
ALL GENDER RESTROOM	PL. CONC.	1x4 PVC	GYP. BD.	FRP.	GYP. BD.	FRP.	GYP. BD.	FRP.	GYP. BD.	FRP.	ACC	9-6" +/-	NEW 2x4 METAL GRID & TILE AS NOTED
PREP	PL. CONC.	VB	GYP. BD.	FRP.	GYP. BD.	FRP.	GYP. BD.	FRP.	GYP. BD.	FRP.	PVC COATED GB TILE	9'-0" +/-	NEW 2x4 METAL GRID & TILE AS NOTED
SCULLERY	PL. CONC.	VB	GYP. BD.	FRP.	GYP. BD.	FRP.	GYP. BD.	FRP.	GYP. BD.	FRP.	PVC COATED GB TILE	9'-0" +/-	NEW 2x4 METAL GRID & TILE AS NOTED
BACK ROOM	PL. CONC.	VB	GYP. BD.	WCT	GYP. BD.	WCT	GYP. BD.	WCT	GYP. BD.	WCT	ACC	8-0" +/-	NEW 2x4 METAL GRID & TILE AS NOTED
VACANT UNIT	CONC.	-	GYP. BD.	PT. READY	GYP. BD.	PT. READY	GYP. BD.	PT. READY	GYP. BD.	PT. READY	OPEN	PT. READY	EXISTING METAL DECK

FINISH ABBREVIATIONS:

GB = 5/8" TYPE 'X' GYPSUM BOARD
WCT =CERAMIC TILE ON WALLS UP CEILING
FRP= FRP PANELS FLOOR TO CEILING
PT = PAINT FINISH
AL-GL = ALUMINUM FRAME AND GLASS
CB = CERAMIC BASE W/ INTEGRAL COVE TO MEET FLOOR
RB = RUBBER BASE
CONC = EXISTING CONCRETE
PL. CONC = POLISHED CONCRETE
LVT= LUXURY VINYL COMPOSITE FLOORING
CT = NON-SLIP FLOOR CERAMIC TILE
ACC = ACCOUSTICAL CEILING TILE
OPEN = OPEN CEILING TO METAL DECK ABOVE - CLEAN AND PAINT DECK, STRUCTURAL ELEMENTS AND ALL MEP IMPROVEMENTS

ROOM FINISH NOTES:

1. ALL INTERIOR WALL FINISHES SHALL NOT BE LESS THAN CLASS II FINISHES AS CLASSIFIED IN ACCORDANCE WITH ASTM E84 AND CONFORM TO IBC CHAPTER 8

2. ALL INTERIOR FLOOR FINISHES SHALL NOT BE LESS THAN CLASS II MATERIALS PER ASTM E648. INTERIOR FLOOR FINISHES SHALL COMPLY WITH THE DOC FF-1 "PILL TEST" (CPSC 16 PART 1630). MINIMUM CRITICAL RADIANT FLUX OF .O4 WATTS/CM^2 AND CONFORM TO IBC CHAPTER 8

3. ALL INTERIOR WALL AND CEILING FINISHES SHALL HAVE A FLAME AND SMOKE RATING NOT GREATER THAN DESIGNATED BY THE REQUIRED CLASSIFICATION AND CONFORM TO IBC CHAPTER 8.

GENERAL NOTES:

1. FIRE SPRINKLER AND FIRE ALARM DRAWINGS/PERMITS TO BE PROVIDED FOR BOTH SPACES / OBTAINED BY CONTRACTOR.
2. WORK SHOWN IS TO SUBDIVIDE TENANT SPACE AND PROVIDE VANILLA BOX TENANT SPACE - NOT FOR FINAL OCCUPANCY.
3. PROVIDE FIRE DEPARTMENT APPROVED KNOX BOX AT FRONT OF BUILDING PER FIRE DEPARTMENT DIRECTIO.
4. ALL NEW EXTERIOR FENESTRATIONS - WINDOWS AND DOORS TO MEET THE FOLLOWING MAXIMUM U-VALUES FIXED FENESTRATIONS / WINDOWS = 0.38 - DOORS = 0.77

ISSUES AND REVISIONS :

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DRAFTPERSON:
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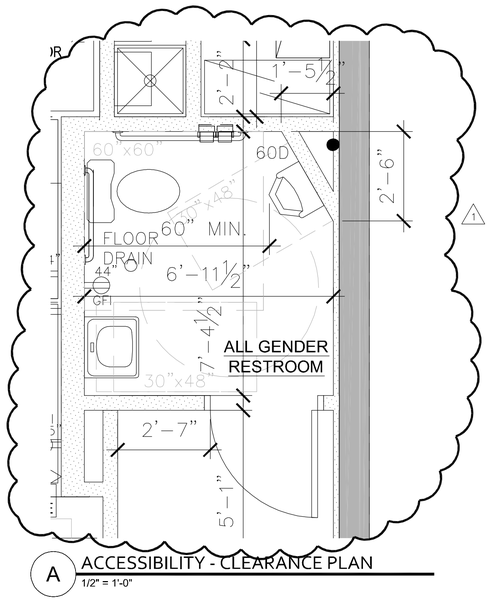
PREPARED FOR :
JS FORT GROUP, INC.
LOCATION :
JOB NUMBER :
DATE:
10/11/2022

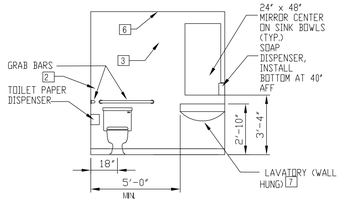
LICENSED ARCHITECT BRIAN L GOULD 001-001417 STATE OF ILLINOIS

SHEET NUMBER :

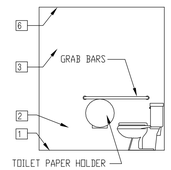
A-2.2

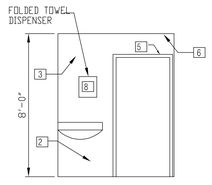


A ACCESSIBILITY - CLEARANCE PLAN
1/2" = 1'-0"



TYP. TOILET ROOM ELEVATION
SCALE: 1/4" =1'-0"





NOTE:
ALL ACCESSORIES TO BE MOUNTED WHERE POINT OF DISPENSING AND/OR ANY OPERATING HEIGHT IS A MAXIMUM OF 40" A.F.F.

TOILET ROOM FINISH SCHEDULE

1. POLISHED CONCRETE
2. FULL HEIGHT FRP.
3. FULL HEIGHT FRP.
5. H.M. DOOR AND FRAME PAINTED
6. ACOUSTICAL CEILING
7. LAVATORY (WALL HUNG) COLOR: WHITE
8. PAPER TOWEL DISPENSER: ASI MODEL 0467

BATHROOM SPECIFICATION SPECIFICATIONS:

MATERIALS

A. MIRROR TO BE "BRADLEY OR APPROVED EQUAL TO MEET SPECIFICATIONS
B. GYPSUM BOARD IN TOILET ROOMS TO BE WATER RESISTANT.

TOILET ACCESSORIES
A. GRAB BARS SHALL BE 1 1/2 " O.D., 18 GAUGE, TYPE 304 STAINLESS STEEL WITH A SATIN FINISH. RAIL SHALL BE DESIGNED FOR WALL TO WALL MOUNTING WITH CONCEALED ANCHORS.

ACCEPTABLE MANUFACTURERS:

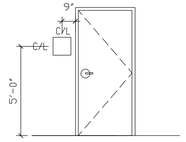
AMERICA SPECIALTIES, INC., BOBRICK, MC KINNEY/PARKER AND BRADLEY CORPORATION OR APPROVED EQUAL

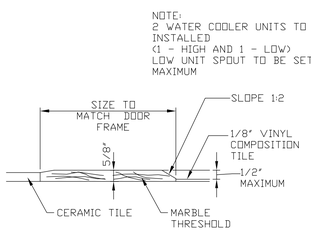
B. SOAP DISPENSERS, DIAPER DISPENSER, ALUMINUM DOUBLE ROLL PAPER HOLDER FOR EACH WATER CLOSET AND TOWEL HOLDERS, ETC. TO BE SUPPLIED, AND INSTALLED BY GENERAL CONTRACTOR.

C. FOLDED TOWEL DISPENSERSUPPLIED, AND INSTALLED BY GENERAL CONTRACTOR. INSTALLED PER ADA SPECS.

TOILET ROOM SIGNAGE

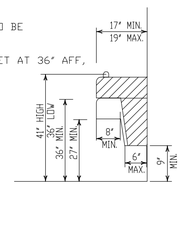
A. PLACE " ADA" TOILET ROOM SIGNAGE ON WALL ADJACENT TO THE LATCH SIDE. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 IN. OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



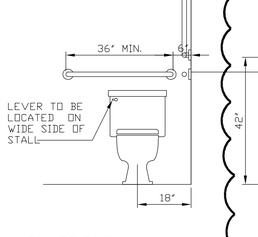


THRESHOLD DETAIL
SCALE: NTS =1'-0"

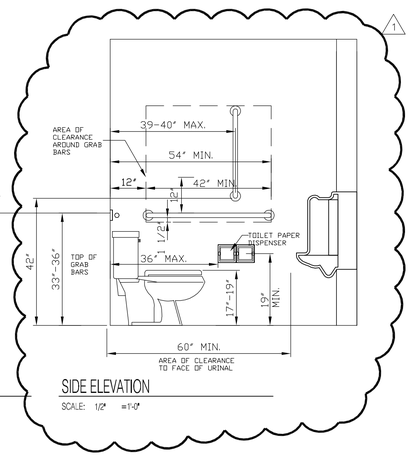
NOTE:
2 WATER COOLER UNITS TO BE INSTALLED
(1 - HIGH AND 1 - LOW)
LOW UNIT SPOUT TO BE SET AT 36" AFF, MAXIMUM



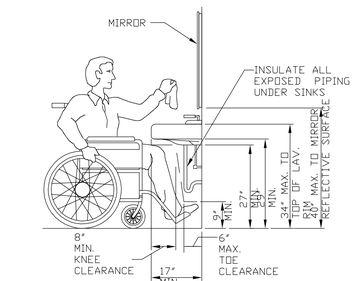
WATER COOLER CLEARANCES
SCALE: 1/2" =1'-0"



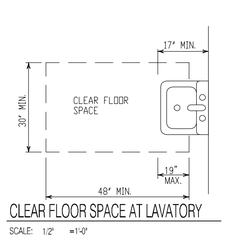
FRONT ELEVATION
SCALE: 1/2" =1'-0"



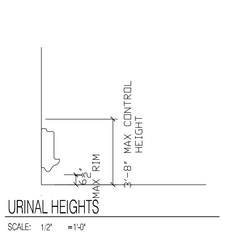
SIDE ELEVATION
SCALE: 1/2" =1'-0"



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



CLEAR FLOOR SPACE AT LAVATORY
SCALE: 1/2" =1'-0"



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

ACCESSIBILITY - CLEARANCE ELEVATIONS / DETAILS
AS NOTED

ISSUES AND REVISIONS :

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BR DESIGN & ARCHITECTURE
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OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

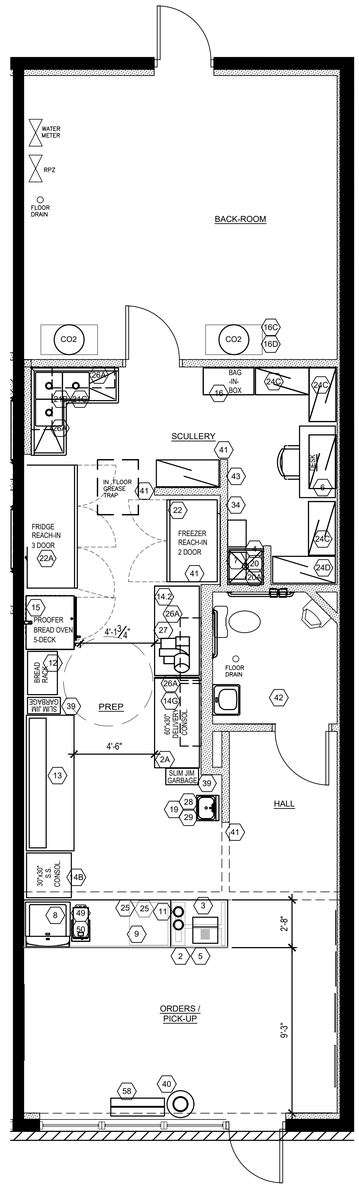
DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR:
JS Fort Group, Inc.
LOCATION:
JOB NUMBER:
DATE:
10/11/2022

LICENSED ARCHITECT BRIAN L GOULD 001-021417 STATE OF ILLINOIS

SHEET NUMBER :
A-3.0

FIXTURE AND EQUIPMENT SCHEDULE

JJ EQUIP. NO	QUANTITY	EQUIPMENT NAME	MANUFACTURER	FIXTURE & EQUIPMENT PLAN NOTES:	FRANCHISEE	CONTRACTOR	LANDLORD	ELEC. REQ.	PLUMB. REQ.	MECH.REQ.
2	1	AVAYA 2554 FEATURE PHONE	AVAYA	REFER TO ELECTRICAL DRAWINGS	●	●				
2A	0	DRIVER SHELF	MID-WEST	PROVIDE SOLID BLOCKING- SEE ELEVATIONS & DETAIL B/A-10	●	●				
3	1	POS TERMINAL	-	120V (INSTALL DATA/POWER OUTLETS INSIDE CABINET)	●	●		●		
4	1	MOP RACKS	KEC		●	●				
5	1	34" HIGH CASH MILLWORK & COUNTER W/ ROLLING CHIP RACKS	MID-WEST	REFER TO CABINET DRAWINGS	●	●				
6	1	DESK AND SHELVES	QUANTUM	PROVIDED BY KEC EQUIPMENT - SEE NETWORK CABINET ELEV.	●			●		
7	1	WATER HEATER	RINNAI	REFER TO PLUMBING DRAWINGS		●		●	●	
8	1	ICE/BEVERAGE UNIT COUNTERTOP STYLE	-	120V - CORD AND PLUG (C&P) (INSTALL OUTLET IN CABINET) REFER TO PLUMBING DRAWINGS	●			●		
9	1	UNDERCOUNTER COOLER	-	120V - CORD AND PLUG (C&P) (INSTALL OUTLET IN CABINET)	●			●	●	
11	1	CUP DISPENSERS	SAN JAMAR		●	●				
12	1	SIDE LOADING BREAD RACK	KEC		●					
13	1	91" REFRIG. PREP TABLE AND 12"x 91" S.S. OVERSHELF	KAIRAK	120V-1/2 HP	●			●		
14B	1	STAINLESS 30"x30" S.S. TABLE	JOHN BOOS		●					
14G	1	STAINLESS 30"x60" S.S. DELIVERY TABLE	JOHN BOOS		●					
14.2	1	STAINLESS 60"X30" SLICER TABLE	JOHN BOOS		●					
15	1	4 DECK OVEN/PROOFER COMBINATION	PIPER PRODUCTS	208V - 3 PH - WIRE TO DISCONNECT	●	●		●		
16	1	BAG-N-BOX CARBONATE STOR.			●					
16C	1	HIGH PRESSURE CO2	-		●					
16D	1	CARBONATOR	COKE	SEE DETAILS ON A-1.1 AND P-1	●	●		●	●	
19	1	STAINLESS HAND SINK w/ FAUCET	UNIVERSAL	1/2" C.W.	●	●			●	
20	1	Z1996-24 MOP SINK w/ ZURN Z1996-SF FAUCET	ZURN	REFER TO PLUMBING DRAWINGS	●	●			●	
20A	1	MOP HEAD HOOKS	KEC	INSTALL (BENEATH THE WH SHELF, ABOVE FAUCET - SEE 5/A-1.1	●	●				
21B	1	"L" STAINLESS 3 COMPARTMENT SINK	JOHN BOOS	1/2" C.W. - 1/2" H.W. - (3) 1 1/2" DRAIN- (2) 18" WIDE DRAINBOARDS	●	●			●	
21G	1	SINK FAUCET (ZURN Z842H1.0002 w/OVERHEAD SPRAYER)	ZURN	REFER TO PLUMBING DRAWINGS	●	●			●	
22	1	2 DOOR REACH - IN FREEZER	HOSHIZAKI	115V (RECEPT. @ 72" A.F.F.)	●			●		
22A	1	3 DOOR REACH - IN COOLER	HOSHIZAKI	115V (RECEPT. @ 72" A.F.F.)	●			●		
24C	3	18"x36" WIRE SHELVING UNITS	QUANTUM		●					
24D	2	18"x42" WIRE SHELVING UNITS	QUANTUM		●					
26A	3	DISPLAY WALL SHELVES (14"x42")	QUANTUM	PROVIDE BLOCKING TO SECURE SHELVING UNITS SEE DETAIL 2/A-1.1 FOR MOUNTING HEIGHTS	●	●				
27	1	#GSP-HD ELECTRIC SLICER	BIZERBA	120V - 1/2 HP - CORD & PLUG	●			●		
28	1	PAPER TOWEL DISPENSER -T1755TBK	SAN JAMAR	PROVIDE IN WALL BLOCKING	●	●				
29	1	SOAP DISPENSER- INTERNATIONAL 32	UPDATE	PROVIDE IN WALL BLOCKING	●	●				
34	1	CUNO #15 WATER FILTER	CUNO	ENSURE EASY ACCESS TO THIS FILTER CARTRIDGE MOUNT TO WALL- TOP @ 8'-0" A.F.F..- SEE PLUMBING SHEETS	●	●			●	
25	1	SOFFIT MOUNTED MENU BOARD (30" X 120")	-	SEE SHEET A-9.1	●	●				
39	2	SLIM JIM TRASH CAN	KEC		●					
40	1	TRASH RECEPTACLE	RUBBERMAID	S3ET CLASSICS - OPEN TOP - 94L/25G	●					
41	5	STAINLESS STEEL CORNER GUARDS	ELKAY	ON OUTSIDE CORNERS OF TILE IN PREP AREA	●	●				
42	1	BATHROOM ACCESSORIES - NEW	BOBRICK - ZURN	REFER TO PLUMBING DRAWINGS AND SHEET A-5	●	●				
43	1	HCS-2 COAT RACK	GAMCO		●	●				
49	1	ICED TEA BREWER	BUNN-O-MATIC	120V - CORD AND PLUG (C&P)-(INSTALL OUTLET IN CABINET) 1800 WATTS, 15 AMPS, 5-15 RECEPTACLE	●	●		●	●	
50	1	SEAMLESS STAINLESS STEEL ICED TEA DISPENSER	BUNN-O-MATIC		●					
58	1	PICKUP SHELF 34" x 18"	MIDWEST		●					



A EQUIPMENT FIRST FLOOR PLAN
1/4" = 1'-0"

ISSUES AND REVISIONS :

NO.	BY:	DATE:	DESCRIPTION:
1	GV:	02/06/2023	PLAN REVISIONS PER NAPERVILLE BUILDING DEPARTMENT REQUEST

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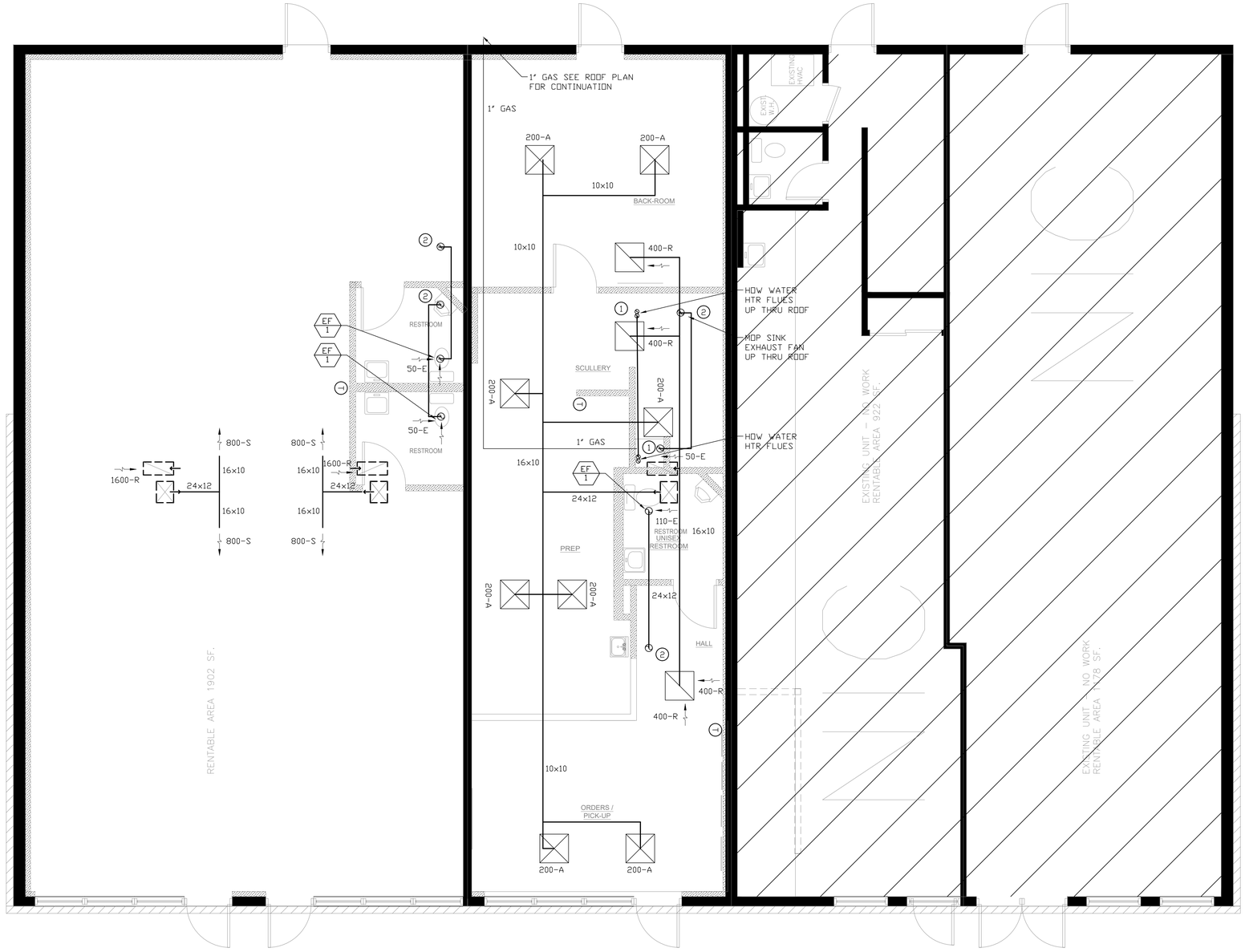
TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE - SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE:
10/11/2022

SHEET NUMBER :
MEP-1.0



A MECHANICAL FIRST FLOOR PLAN
1/4" = 1'-0"

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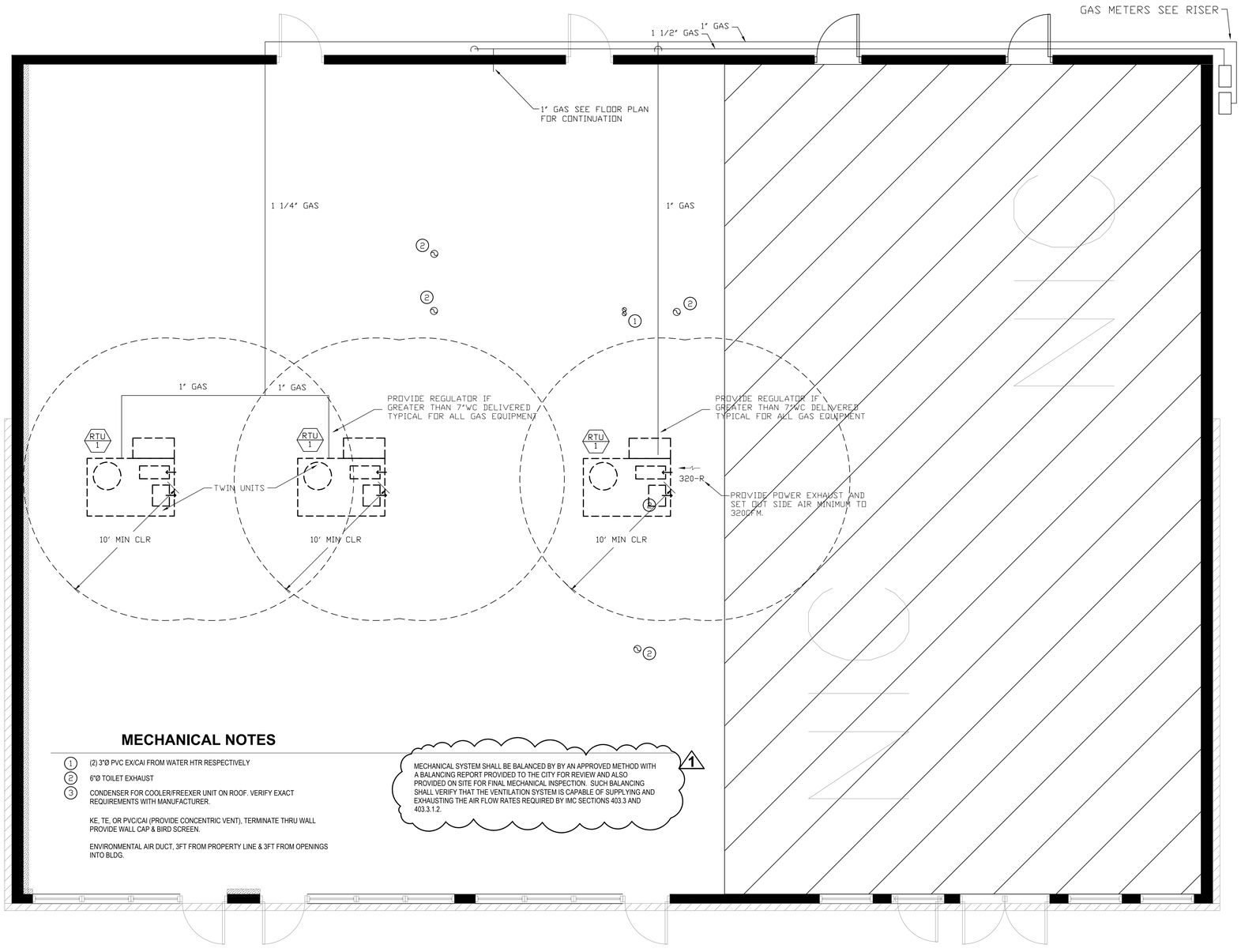
ROBERT N. RAFSON
062-049931
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

SHEET NUMBER :
M-1.0



MECHANICAL NOTES

1. (2) 3"Ø PVC EX/CAI FROM WATER HTR RESPECTIVELY
2. 6"Ø TOILET EXHAUST
3. CONDENSER FOR COOLER/FREEXER UNIT ON ROOF. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER.

KE, TE, OR PVC/CAI (PROVIDE CONCENTRIC VENT), TERMINATE THRU WALL PROVIDE WALL CAP & BIRD SCREEN.

ENVIRONMENTAL AIR DUCT, 3FT FROM PROPERTY LINE & 3FT FROM OPENINGS INTO BLDG.

1 MECHANICAL SYSTEM SHALL BE BALANCED BY BY AN APPROVED METHOD WITH A BALANCING REPORT PROVIDED TO THE CITY FOR REVIEW AND ALSO PROVIDED ON SITE FOR FINAL MECHANICAL INSPECTION. SUCH BALANCING SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AND EXHAUSTING THE AIR FLOW RATES REQUIRED BY IMC SECTIONS 403.3 AND 403.3.1.2.

A MECHANICAL ROOF PLAN
1/4" = 1'-0"

ISSUES AND REVISIONS :

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DATE:
10/11/2022

ROBERT N. RAFSON 062-049931 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

SHEET NUMBER :
M-1.1

BASIC MECHANICAL MATERIALS AND METHODS

1.1 COMMON REQUIREMENTS

A. Install equipment to allow maximum possible headroom unless specific mounting heights are not indicated.

B. Install equipment level and plumb, parallel and perpendicular to other building systems and components in exposed interior spaces, unless otherwise indicated.

C. Install mechanical equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Extend grease fittings to accessible locations.

D. Install equipment to allow right of way for piping installed at required slope.

E. Shop Drawings: Signed and sealed by a qualified professional engineer.

1. Design Calculations: Calculate requirements for selecting vibration isolators and seismic restraints and for designing vibration isolation bases.
2. Vibration Isolation Base Details: Detail fabrication including anchorages and attachments to structure and to supported equipment. Include auxiliary motor slides and rails, and base weights.

Retain subparagraph below if equipment includes wiring.

3. Wiring Diagrams: Power, signal, and control wiring.

Retain paragraph below if Project involves unusual coordination requirements.

F. Coordination Drawings: Submit with Shop Drawings. Show mechanical-room layout and relationships between components and adjacent structural and mechanical elements. Show support locations, type of support, and weight on each support. Indicate and certify field measurements.

MECHANICAL INSULATION

1.1 COMMON INSTALLATION REQUIREMENTS

A. Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of equipment, ducts and fittings, and piping including fittings, valves, and specialties.

B. Install insulation materials, forms, vapor barriers or retarders, jackets, and thicknesses required for each item of equipment, duct system, and pipe system as specified in insulation system schedules.

C. Install accessories compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state.

D. Insulation Installation on Fittings, Valves, Strainers, Flanges, and Unions:

1. Install insulation over fittings, valves, strainers, flanges, unions, and other specialties with continuous thermal and vapor-retarder integrity, unless otherwise indicated.

REFRIGERANT PIPING

1.1 QUALITY ASSURANCE

Delete first paragraph below if no welding. Retain "Welding Certificates" Paragraph in "Submittals" Article if below is retained.

A. Welding: Qualify procedures and personnel according to ASME Boiler and Pressure Vessel Code: Section IX, "Welding and Brazing Qualifications."

B. ASHRAE Standard: Comply with ASHRAE 15, "Safety Code for Mechanical Refrigeration."

C. ASME Standard: Comply with ASME B31.5, "Refrigeration Piping."

D. UL Standard: Provide products complying with UL 207, "Refrigerant-Containing Components and Accessories, Nonelectrical"; or UL 429, "Electrically Operated Valves."

1.2 COPPER TUBE AND FITTINGS

Type M copper tubing and cast-iron pipe are not permitted by the Pressure Piping Code for volatile refrigerant. Type L (Type B) and Type K (Type A) are used for underground installations

A. Drawn-Temper Copper Tube: ASTM B 280, Type ACR

B. Annealed-Temper Copper Tube: ASTM B 280, Type ACR

C. Wrought-Copper Fittings: ASME B16.22.

D. Wrought-Copper Unions: ASME B16.22.

Use BAg-5 (silver) where the use of cadmium-containing filler metal is prohibited, especially in dairy and food industries.

E. Brazing Filler Metals: AWS A5.8, Classification BAg-1 (silver)

F. Flexible Connectors: 500-psig (3450-kPa) minimum operating pressure; seamless tin-bronze core, high-tensile bronze-braid covering, and solder-joint end connections; dehydrated, pressure tested, minimum 7 inches long

FUEL GAS PIPING

1.1 QUALITY ASSURANCE

G. Welding: Qualify processes and operators according to ASME Boiler and Pressure Vessel Code: Section IX.

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

I. NFPA Standard: Comply with NFPA 54, "National Fuel Gas Code."

1.2 EXAMINATION

A. Examine roughing-in for fuel oil piping system to verify actual locations of piping connections before equipment installation.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

1.3 SERVICE ENTRANCE PIPING

B. Extend fuel gas piping and connect to fuel gas distribution for service entrance to building.

1. Exterior fuel gas distribution system piping, service pressure regulator, and service meter will be provided by gas utility.

C. Install dielectric fitting downstream from and adjacent to each service meter unless meter is supported from service-meter bar with integral dielectric fitting. Install shutoff valve downstream

D. from and adjacent to dielectric fitting. Dielectric fittings are specified in Division 15 Section "Basic Mechanical Materials and Methods."

1.4 PIPING APPLICATIONS

A. Flanges, unions, transition, and special fittings with pressure ratings same as or higher than system pressure rating may be used in applications below, unless otherwise indicated.

B. Underground Fuel Gas Piping: Steel pipe, steel welding fittings, and welded joints. Encase in containment conduit.

C. Containment Conduits: Steel pipe, steel welding fittings, and welded joints.

1.5 CONNECTIONS

D. Drawings indicate general arrangement of fuel gas piping, fittings, and specialties.

E. Install piping adjacent to appliances to allow service and maintenance.

F. Connect piping to appliances using gas with shutoff valves and unions. Install valve upstream from and within 72 inches of each appliance. Install union downstream from valve.

G. Sediment Traps: Install tee fitting with capped nipple in bottom to form drip, as close as practical to inlet of each appliance using gas.

H. Ground equipment according to Division 16 Section "Grounding and Bonding."

1. Do not use gas pipe as grounding electrode.

F. Connect wiring according to Division 16 Section "Conductors and Cables."

1.6 FIELD QUALITY CONTROL

A. Test, inspect, and purge piping according to NFPA 54 and requirements of authorities having jurisdiction.

B. Repair leaks and defects with new materials and retest system until satisfactory results are obtained.

C. Verify capacities and pressure ratings of service meters, pressure regulators, valves, and specialties.

D. Verify correct pressure settings for pressure regulators.

INDOOR AIR-HANDLING UNITS

1.1 COORDINATION

A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 3.

B. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 7 Section "Roof Accessories."

C. Coordinate size and location of structural-steel support members.

1.2 EXTRA MATERIALS

Extra materials may not be allowed for publicly funded projects.

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

Revise subparagraphs below to suit Project.

1. Filters: 2 set[s] for each modular indoor air-handling unit.
2. Fan Belts: 2 set[s] for each modular indoor air-handling unit fan.
3. Gaskets: 2 set[s] for each access door.

1.3 EXAMINATION

A. Examine areas and conditions for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Examine roughing-in of steam, hydronic, and condensate drainage piping systems and electrical services to verify actual locations of connections before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

1.4 INSTALLATION

A. Install modular indoor air-handling units with the following vibration-control devices.

Select from four subparagraphs below or edit to suit Project and equipment requirements. Refer to Division 15 Section "Mechanical Vibration and Seismic Controls" for other types and applications of vibration-control devices.

1. Units with Internally Isolated Fans: Secure units to anchor bolts installed in concrete bases.
2. Floor-Mounted Units: Support on concrete bases using neoprene pads. Secure units to anchor bolts installed in concrete bases.
3. Floor-Mounted Units: Support on concrete bases using housed-spring isolators. Secure units to anchor bolts installed in concrete bases.

B. Arrange installation of units to provide access space around modular indoor air-handling units for service and maintenance.

1.5 CONNECTIONS

Coordinate piping installations and specialty arrangements with schematics on Drawings and with requirements specified in piping systems. If Drawings are explicit enough, these requirements may be reduced or omitted.

A. Piping installation requirements are specified in other Division 15 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Install piping adjacent to machine to allow service and maintenance.

Flexible connections in first paragraph below may not be necessary. Verify requirements with Project conditions.

C. Connect piping to modular indoor air-handling units mounted on vibration isolators with flexible connectors.

D. Connect condensate drain pans using NPS 1-1/4, Type M copper tubing. Extend to nearest equipment or floor drain. Construct deep trap at connection to drain pan and install cleanouts at changes in direction.

1.6 STARTUP SERVICE

A. Engage a factory-authorized service representative to perform startup

Delete first paragraph below if factory-authorized service representative is not required.

1.7 ADJUSTING

A. Adjust damper linkages for proper damper operation.

1.8 CLEANING

A. Clean modular indoor air-handling units internally, on completion of installation, according to manufacturer's written instructions. Clean fan interiors to remove foreign material and construction dirt and dust. Vacuum clean fan wheels, cabinets, and coils entering air face.

B. After completing system installation and testing, adjusting, and balancing modular indoor air-handling and air-distribution systems, clean filter housings and install new filters.

ROOFTOP AIR CONDITIONERS

1.1 COORDINATION

C. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 7 Section "Roof Accessories."

D. Coordinate size, location, and installation of rooftop air-conditioner manufacturer's roof curbs and equipment supports with roof installer.

4. Coordinate installation of restrained vibration isolation roof-curb rails.

1.2 INSTALLATION

A. Install units level and plumb, maintaining manufacturer's recommended clearances.

B. Curb Support: Install roof curb on roof structure, level and secure, according to Install and secure rooftop air conditioners on curbs and coordinate roof penetrations and flashing with roof construction.

1.3 STARTUP SERVICE

C. Engage a factory-authorized service representative to perform startup service.

1.4 ADJUSTING

A. Adjust initial temperature and humidity set points.

B. Set field-adjustable switches and circuit-breaker trip ranges as indicated.

C. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to site outside normal occupancy hours for this purpose, without additional cost.

METAL DUCTS

1.1 SHEET METAL MATERIALS

A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS, UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

B. GALVANIZED SHEET STEEL: LOCK-FORMING QUALITY; COMPLYING WITH ASTM A 653/A 653M AND HAVING COATING DESIGNATION; DUCTS SHALL HAVE MILL-PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.

C. REINFORCEMENT SHAPES AND PLATES: GALVANIZED-STEEL REINFORCEMENT WHERE INSTALLED ON GALVANIZED SHEET METAL DUCTS.

D. TIE RODS: GALVANIZED STEEL, 1/4-INCH MINIMUM DIAMETER FOR LENGTHS 36 INCHES OR LESS; 3/8-INCH MINIMUM DIAMETER FOR LENGTHS LONGER THAN 36 INCHES.

1.2 SEALANT MATERIALS

A. JOINT AND SEAM SEALANTS, GENERAL: THE TERM "SEALANT" IS NOT LIMITED TO MATERIALS OF ADHESIVE OR MASTIC NATURE BUT INCLUDES TAPES AND COMBINATIONS OF OPEN-WEAVE FABRIC STRIPS AND MASTICS.

1.3 DUCT INSTALLATION

A. CONSTRUCT AND INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE," UNLESS OTHERWISE INDICATED.

B. INSTALL ROUND AND FLAT-OVAL DUCTS IN LENGTHS NOT LESS THAN 12 FEET UNLESS INTERRUPTED BY FITTINGS.

C. INSTALL DUCTS WITH FEWEST POSSIBLE JOINTS.

D. INSTALL FABRICATED FITTINGS FOR CHANGES IN DIRECTIONS, SIZE, AND SHAPE AND FOR CONNECTIONS.

1.4 HANGING AND SUPPORTING

A. SUPPORT HORIZONTAL DUCTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION.

B. SUPPORT VERTICAL DUCTS AT MAXIMUM INTERVALS OF 16 FEET AND AT EACH FLOOR.

1.5 CONNECTIONS

C. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE" FOR BRANCH, OUTLET AND INLET, AND TERMINAL UNIT CONNECTIONS.

1.6 CLEANING NEW SYSTEMS

A. MARK POSITION OF DAMPERS AND AIR-DIRECTIONAL MECHANICAL DEVICES BEFORE CLEANING, AND PERFORM CLEANING BEFORE AIR BALANCING.

DIFFUSERS, REGISTERS, AND GRILLES

1.1 EXAMINATION

A. Examine areas where diffusers, registers, and grilles are to be installed for compliance with requirements for installation tolerances and other conditions affecting performance of equipment.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

1.2 INSTALLATION

A. Install diffusers, registers, and grilles level and plumb.

B. Ceiling-Mounted Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Air outlet and inlet locations have been indicated to achieve design requirements for air volume, noise criteria, airflow pattern, throw, and pressure drop. Make final locations where indicated, as much as practicable. For units installed in lay-in ceiling panels, locate units in the center of panel. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.

C. Install diffusers, registers, and grilles with airtight connections to ducts and to allow service and maintenance of dampers, air extractors, and fire dampers.

1.3 ADJUSTING

A. After installation, adjust diffusers, registers, and grilles to air patterns indicated, or as directed, before starting air balancing.

HVAC INSTRUMENTATION AND CONTROLS

1.4 SUBMITTALS

B. Product Data: Include manufacturer's technical literature for each control device. Indicate dimensions, capacities, performance characteristics, electrical characteristics, Finishes for materials, and installation and startup instructions for each type of product indicated.

1. DDC System Hardware: Quantity, manufacturer, and model number. Include technical data for operator workstation equipment, interface equipment, control units, transducers/transmitters, sensors, actuators, valves, relays/switches, control panels, and operator interface equipment.
2. Controlled Systems: Instrumentation list with element name, type of device, manufacturer, model number, and product data. Include written description of sequence of operation including schematic diagram.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Automatic control system manufacturer's authorized representative who is trained and approved for installation of system components required for this Project.

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

C. Comply with ASHRAE 135 for DDC system components.

1.6 DELIVERY, STORAGE, AND HANDLING

D. Factory-Mounted Components: Where control devices specified in this Section are indicated to be factory mounted on equipment, arrange for shipping of control devices to equipment manufacturer.

E. System Software: Update to latest version of software at Project completion.

1.7 COORDINATION

A. Coordinate location of thermostats, humidistats, and other exposed control sensors with plans and room details before installation.

B. Coordinate supply of conditioned electrical branch circuits for control units and operator workstation.

1.8 ADJUSTING

A. Calibrating and Adjusting:

1. Calibrate instruments.
2. Make three-point calibration test for both linearity and accuracy for each analog instrument.
3. Calibrate equipment and procedures using manufacturer's written recommendations and instruction manuals. Use test equipment with accuracy at least double that of instrument being calibrated.

1.9 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain HVAC instrumentation and controls.

TESTING, ADJUSTING, AND BALANCING

1.1 QUALITY ASSURANCE

A. TAB CONFERENCE: MEET WITH OWNER'S AND ARCHITECT'S REPRESENTATIVES ON APPROVAL OF TAB STRATEGIES AND PROCEDURES PLAN TO DEVELOP A MUTUAL UNDERSTANDING OF THE DETAILS. ENSURE THE PARTICIPATION OF TAB TEAM MEMBERS, EQUIPMENT MANUFACTURERS' AUTHORIZED SERVICE REPRESENTATIVES, HVAC CONTROLS INSTALLERS, AND OTHER SUPPORT PERSONNEL. PROVIDE SEVEN DAYS' ADVANCE NOTICE OF SCHEDULED MEETING TIME AND LOCATION.

1. AGENDA ITEMS: INCLUDE AT LEAST THE FOLLOWING:
   a. SUBMITTAL DISTRIBUTION REQUIREMENTS.
   b. THE CONTRACT DOCUMENTS EXAMINATION REPORT.
   c. TAB PLAN.
   d. WORK SCHEDULE AND PROJECT-SITE ACCESS REQUIREMENTS.
   e. COORDINATION AND COOPERATION OF TRADES AND SUBCONTRACTORS.
   f. COORDINATION OF DOCUMENTATION AND COMMUNICATION FLOW.

B. CERTIFICATION OF TAB REPORTS: CERTIFY TAB FIELD DATA REPORTS. THIS CERTIFICATION INCLUDES THE FOLLOWING:

1. REVIEW FIELD DATA REPORTS TO VALIDATE ACCURACY OF DATA AND TO PREPARE CERTIFIED TAB REPORTS.
2. CERTIFY THAT TAB TEAM COMPLIED WITH APPROVED TAB PLAN AND THE PROCEDURES SPECIFIED AND REFERENCED IN THIS SPECIFICATION.

C. INSTRUMENTATION CALIBRATION: CALIBRATE INSTRUMENTS AT LEAST EVERY SIX MONTHS OR MORE FREQUENTLY IF REQUIRED BY INSTRUMENT MANUFACTURER.

1. KEEP AN UPDATED RECORD OF INSTRUMENT CALIBRATION THAT INDICATES DATE OF CALIBRATION AND THE NAME OF PARTY PERFORMING INSTRUMENT CALIBRATION.

1.2 COORDINATION

A. COORDINATE THE EFFORTS OF FACTORY-AUTHORIZED SERVICE REPRESENTATIVES FOR SYSTEMS AND EQUIPMENT, HVAC CONTROLS INSTALLERS, AND OTHER MECHANICS TO OPERATE HVAC SYSTEMS AND EQUIPMENT TO SUPPORT AND ASSIST TAB ACTIVITIES.

1.3 GENERAL PROCEDURES FOR TESTING AND BALANCING

A. CUT INSULATION, DUCTS, PIPES, AND EQUIPMENT CABINETS FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES. AFTER TESTING AND BALANCING, CLOSE PROBE HOLES AND PATCH INSULATION WITH NEW MATERIALS IDENTICAL TO THOSE REMOVED. RESTORE VAPOR BARRIER AND FINISH ACCORDING TO INSULATION SPECIFICATIONS FOR THIS PROJECT.

B. MARK EQUIPMENT AND BALANCING DEVICE SETTINGS WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS.

1.4 REPORTING

A. STATUS REPORTS: AS WORK PROGRESSES, PREPARE REPORTS TO DESCRIBE COMPLETED PROCEDURES. INCLUDE A LIST OF DEFICIENCIES AND PROBLEMS FOUND IN SYSTEMS BEING TESTED AND BALANCED. PREPARE A SEPARATE REPORT FOR EACH SYSTEM AND EACH BUILDING FLOOR FOR SYSTEMS SERVING MULTIPLE FLOORS.

1.5 FINAL REPORT

B. GENERAL: TYPEWRITTEN, OR COMPUTER PRINTOUT IN LETTER-QUALITY FONT, ON STANDARD BOND PAPER, IN THREE-RING BINDER, TABULATED AND DIVIDED INTO SECTIONS BY TESTED AND BALANCED SYSTEMS.

C. INCLUDE A CERTIFICATION SHEET IN FRONT OF BINDER SIGNED AND SEALED BY THE CERTIFIED TESTING AND BALANCING ENGINEER.

INCLUDE A LIST OF INSTRUMENTS USED FOR PROCEDURES, ALONG WITH PROOF OF CALIBRATION.

1.6 ADDITIONAL TESTS

A. WITHIN 90 DAYS OF COMPLETING TAB, PERFORM ADDITIONAL TESTING AND BALANCING TO VERIFY THAT BALANCED CONDITIONS ARE BEING MAINTAINED THROUGHOUT AND TO CORRECT UNUSUAL CONDITIONS.

B. SEASONAL PERIODS: IF INITIAL TAB PROCEDURES WERE NOT PERFORMED DURING NEAR-PEAK SUMMER AND WINTER CONDITIONS, PERFORM ADDITIONAL TESTING, INSPECTING, AND ADJUSTING DURING NEAR-PEAK SUMMER AND WINTER CONDITIONS.

ISSUES AND REVISIONS :

NO:	BY:	DATE:	DESCRIPTION:
1	CV	02/06/2023	PLAN REVISIONS PER NAPERVILLE BUILDING DEPARTMENT REQUEST

NOTE TO BUILDING DEPARTMENT:

THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECTS ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.

TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE · SUITE #120
OAKBROOK TERRACE · IL · 60181
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.

LOCATION :

JOB NUMBER :

DATE:
10/11/2022

SHEET NUMBER :

M-2.0

DIFFUSERS, REGISTERS, GRILLES, AND LOUVERS.

REFER TO DRAWINGS FOR:
1. DUCT SIZE OR NECK SIZE.
2. FACE SIZE - i.e.: 8"(24x24).
3. PATTERN (3-WAY,etc.) IF APPLICABLE.
4. CFM
5. SYMBOL

A EXT AIR EXTRACTOR
ALB AIR LIGHT BOOT, PLENUM AND VOLUME DAMPER
ASR ANTI-SMUDGE RING
AVD AUTOMATIC VOLUME DAMPER
BWE BAKED WHITE ENAMEL
EQE EQUALIZING GRID
FR-1 WITH 1-HOUR DAMPER
MSD MULTI SHUTTER DAMPER
OBD OPPOSED BLADE DAMPER
PC PRIME COATT

REFER TO ROOM FINISH SCHEDULE AND REFLECTED CEILING PLAN FOR PROPER COORDINATING OF DIFFUSERS, GRILLES, AND REGISTERS.

SYBMOL	TYPE	MODEL	FRAME	DAMPER	FINISH	REMARKS
A	SUPPLY	TITUS TMSI	LAYIN	OBD	BWE	24X24 SEE NECK SCHEDULE
B	RETURN	TITUS PAR	LAYIN	OBD	BWE	24X24 10NK
C	SUPPLY	TITUS TBDI80	SURF MTD	OBD	BWE	10"INLET, 1SLOT, 4FT LONG

FOR TYPE A DIFFUSER:

SUPPLY AIR DIFFUSER NECK SIZE SCHEDULE

CFM RANGE	NECK SIZE		TOTAL PRESSURE	REMARKS
	SQUARE	ROUND		
50-135		6"ø	0.04	(1)
135-240		8"ø	0.04	(1)
240-330		10"ø	0.04	(1)
330-475		12"ø	0.04	(1)

(1) DIFFUSER SHALL BE LAY-IN CEILING TYPE. COORDINATE WITH DIFFUSER SCHEDULE.

EXHAUST FAN SCHEDULE

UNIT No.	MODEL	AREA SERVED	CFM	S.P. IN W.G.	FPM	FAN RPM	DRIVE	MOTOR				REMARKS
								HP	RPM	VOLT	PHASE	
EF-1	Panasonic FV0511VK2	TOILET RMS	110	0.10	-	659	DD	16.1W	1205	120	1	NOTE 1, 6"ø

NOTE 1: WALL SW, ROOF CAP,INSULATED DAMPER & PROVIDE FABRIC FLEX CONNECTION FOR THERMAL BREAK AT EXTERIOR PENETRATION,WIRED TO TIMER

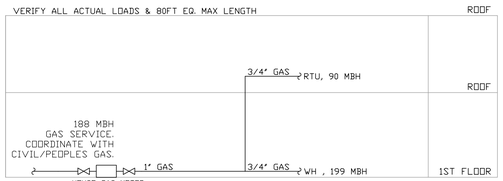
ROOFTOP UNIT SCHEDULE

TAG RTU-	LOCATION	SUPPLY AIR DATA				POWER EX. DATA			COOLING COIL DATA							HEATING COIL DATA	ELECTRICAL DATA				MODEL	REMARKS
		CFM	O.A.	ESP	BHP	CFM	ESP	HP	EAT/DB	EAT/WB	LAT/DB	LAT/WB	TMBH	SMBH	NOM.CAP. TON	INP/OUT (MBH)	MCA	MOCP	VOLT	PH		
1	ROOF	2000	320	0.65	1.64	1600	0.25	-	95	79.6	57.3	55.8	46.6	38	4.0	120/148	53	60	240	3	JOHNSON ZYG06	SEE NOTES 1

NOTE 1: COOLING CAPACITY AT 95F AMBIENT, ASHRAE 90.1 COMPLIANT, GAS FIRED, FILTER INDICATOR, CO2 CONTROLS, MODULATING CENTRIFUGAL POWER EXHAUST, SS DRAIN PAN, DISCONNECT SWITCH, CONVENIENCE OUTLET. 7-DAY PROGRAMMABLE T-STAT., VFD CONTROLLER, PROVIDE ECONOMIZER IN ACCORDANCE W SECTION C403.3, ECONOMIZER FAULT DETECTION PER SECTION C403.2.4.7, PROVIDE POWERED CONVENIENCE OUTLET

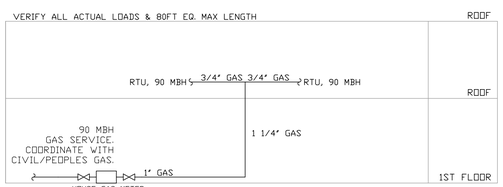
Restaurant Ventilation Schedule

Room No.	Room Name	Floor Area [SF]	Use of Space	Occupant Density, #/1000 SQFT [PZ]	Occupant Density, #	OSA , CFM/Person [Rp]	Outdoor Air Rate, CFM/SQFT [Ra]	Exhaust Airflow, CFM/SQFT	OSA		Exhaust		Remarks
									REQ'D	ACTUAL	REQ'D	ACTUAL	
	RESTROOM	48	Toilet rooms - public	0.00	0	0.00	0.00	50/70	0.0	0	50/70	110	
	CORRIDORS	75	Corridors	0.00	0	0.00	0.06	0.00	4.5	50	0.0	400	
	BACKROOM	275	Storage	0.00	0	0.00	0.00	0.12	0.0	400	33.0	400	
	PICKUP	200	Sales	15.00	3	7.5	0.00	0.12	22.5	400	24.0	400	
	KITCHEN	375	Kitchen (cooking)	20.00	8	7.50	0.12	0.70	101.3	800	0.7	263	



Gas Distribution Jimmy Johns

SCALE: NONE



Gas Distribution Tenant A

SCALE: NONE

THE EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THESE INSTRUCTIONS SHALL BE ON-SITE AND AVAILABLE FOR ALL INSPECTIONS.

Gas Piping/Tubing Material Matrix(Based on IFGC 403)

Material	Permitted	Not Permitted	Standards to Follow
Wrought-Iron	Schedule 40 or better		ASME B 36.10.10M or ASTM A35 or ASTM A106
Steel	Schedule 40 or better		ASME B 36.10.10M or ASTM A35 or ASTM A106
N.G. DISTRIBUTION PIPING SHALL BE SCHEDULE 40 STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A 53/A 53M WITH 150# MALLEABLE IRON FITTINGS. GAS PIPING LARGER THAN 3" OR MORE THAN 5 PSIG TO BE WELDED TO BE SCHEDULE 40 STEEL PIPING.			

Note: The gas piping design shall conform to all the requirements of IFGC 403.

GENERAL GAS PIPING NOTES:

1. ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
2. FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTERNATIONAL FUEL GAS CODE(IFGC), CHAPTER 4 (WITH MODIFICATIONS AS NOTED IN ARTICLE 14). [18-28-1400]
3. GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABTES 402.(1) THROUGH 402.3(34). [IFGC 402.3]
4. THE MAXIMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL NOT EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [IFGC 402.5]
5. GAS PIPING MATERIALS MUST CONFORM TO THE GAS PIPING & TUBING MATERIAL MATRIX (LFGC 403 REQUIREMENTS). [IFGC 403]
6. PIPING IN CONCEALED LOCATIONS MUST CONFORM TO THIS IFGC 404.3. [IFGC 404.3]
7. MINIMUM REQUIRED BURIAL DEPTH FOR UNDERGROUND PIPING SYSTEMS MUST CONFORM TO IFGC 404.9. (MINIMUM 12 INCHES BELOW GRADE). [IFGC 404.9]
8. GAS LINES RUN IN CONCEALED LOCATION SHALL BE LIMITED TO THE FOLLOWING FITTINGS: THREADED ELBOWS, TEES, COUPLINGS, BRAZED, WELDED, AND FITTINGS LISTED TO ANSI LC-1/CSA 6.26 OR ANSI LC-4 [IFGC 404.5]
9. PROVIDE PROTECTION OF ALL GAS PIPING FROM PHYSICAL DAMAGE IN CONCEALED AREAS BY THE USE OF SHIELDED PLATES [IFGC 404.5]
10. GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]
11. GAS PIPING GREATER THAN 2" INSIDE DIAMETER OR CARRYING MORE THAN 5 POUNDS(PSIG) SHALL BE SCHEDULE 40 STANDARD WELD FITTINGS.
12. PIPING METER IDENTIFICATION SHALL BE MARKED WITH AN APPROVED PERMANENT IDENTIFICATION AND BE READILY IDENTIFIABLE.
13. PAINT ALL GAS PIPING THAT IS EXPOSED TO THE ELEMENTS.
14. UNDERGROUND PIPING SHALL BE A MIN OF 18" BELOW GRADE. [IFGC 404.12]
15. ALL NEW GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION 406 OF THE IFGC. THE SYSTEM SHALL BE PURGED, VISUALLY AND PRESSURE TESTED. SOAP TESTING IS NOT ACCEPTABLE. MECH. GAUGES USED TO MEASURE TEST PRESSURES, SHALL HAVE A RANGE SUCH THAT THE HIGHEST END OF THE SCALE IS NOT GREATER THAN FIVE (5) TIMES THE TEST PRESSURES. THE TEST SHALL BE WITNESSED AND REPORT PROVIDED.

PERMIT NOTES:

1. EQUIPMENT NOISE LEVEL NOT TO EXCEED 55 DB AT THE LOT LINE.
2. ALL EXPANSION VALVES, DEVICES AND CONNECTIONS SHALL BE REMOVED FROM THE AIRSTREAM OF ALL MECHANICAL EQUIPMENT AS PER LOCAL CODES.
3. THE MECHANICAL CONTRACTOR SHALL GUARANTEE, AS APPLICABLE, THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINANTS FROM TRAPS, SOIL STACKS, DOWN SPOUTS, VENTS. EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.
4. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A SAFETY RELIEF VALVE DESIGNED TO RELIEVE AND/OR PREVENT THE BUILDUP OF EXCESSIVE REFRIGERANT PRESSURE WITHIN THE DIRECT EXPANSION SYSTEMS. THE PRESSURE RELIEF DEVICE SHALL BE SET AT 400 PSI AND SHALL BE INSTALLED ON THE HIGH PRESSURE SIDE AT THE DISCHARGE OF THE COMPRESSOR AND UPSTREAM OF THE COMPRESSOR SHUTOFF (STOP) VALVE.
5. ALL FRESH AIR INTAKE OPENINGS SHALL BE A MINIMUM OF 15'-0" (CHICAGO) 10'-0" (OUTSIDE CHICAGO) AWAY FROM ANY EXHAUST OR POINT OF CONTAMINATE DISCHARGE.
6. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH "SMACNA" LOW VELOCITY DUCT MANUAL AND "ASHRAE" RECOMMENDATIONS.
7. THE EQUIPMENT IN THE VENTILATING AND HEATING SYSTEM SHALL BE SUFFICIENT TO MAINTAIN 72 DEGREES F WITHIN THE AREA SERVED AT ALL TIMES WHEN 33-1/3 PERCENT OF CODE REQUIRED AIR IS SUPPLIED FROM OUTDOORS AT -10 DEGREES F.
8. VOLUME DAMPERS OF LOCKING TYPE SHALL BE PLACED IN EACH FORCED WARM AIR RUN.

VENTILATION NOTES:

1. CLEARANCES FOR FORCED AIR FURNACES MUST CONFORM TO MANUFACTURERS REQUIREMENTS (OR SHOW CLEARANCES ON THE DRAWINGS).
2. ALL DUCTWORK MUST BE GALVANIZED STEEL OR STAINLESS STEEL., INTAKE MUST BE INSULATED.
3. SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS ARE SHOWN ON ELECTRICAL DRAWING(S).
4. IF THE PROJECT INCLUDES A PLENUM CEILING OR FLOOR: THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINATION FROM TRAPS, SOIL STACKS, DOWNSPOUTS, VENTS AND ALL OTHER SOURCES OF CONTAMINATION WILL BE ENCLOSE SUCH THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.

GENERAL COORDINATION NOTES:

1. EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
2. WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.
3. BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.
4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.
5. WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.
6. REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.
7. CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.

GENERAL MECHANICAL NOTES:

1. ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
2. MEDIUM/LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
3. PROVIDE MANUAL DAMPER ON ALL LOW PRESSURE SUPPLY BRANCH TAKE-OFFOF DUCTWORK.
4. ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.
5. DIFFUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING. CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT TYPE OF CEILING TO DETERMINE FRAME TYPE.
6. BLANK-OFF WITH BLACK PAINTED PANEL WHERE SHOWN. DO NOT PAINT EXPOSED DUCTS OR REGISTERS.
7. PROVIDE UL APPROVED FIRE DAMPERS. PROVIDE UL APPROVED FIRE DAMPERS IN ALL DUCT PENETRATIONS THRU FIRERATED ASSEMBLIES WHETHER INDICATED OR NOT.
8. FLEXIBLE DUCTWORK:NOT TO BE USED
10. PROVIDE LINNING ON ALL SUPPLY AND RETURN AIR DUCTWORK AT A MIN. OF 15'-0" FROM THE HEAT PUMPS/FURNACES.
11. INSULATE ALL DUCTWORK LOCATED IN UNCONDITIONED SPACES. PER IECC C403.11
    INSULATE HVAC DUCTWORK AS FOLLOWS (R-12 MIN):
    - UNLESS INDICATED OTHERWISE, NEW HVAC SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED.
    - INSULATE COLD ROOM SUPPLY AND EXHAUST DUCTS.
    - IF DUCTS ARE INTERNALLY INSULATED, THEY ARE NOT EXTERNALLY INSULATED UNLESS SPECIFICALLY DIRECTED.
    - TRANSFER AND EXHAUST DUCTS ARE INTERNALLY INSULATED ONLY IF SPECIFICALLY DIRECTED.
    - INSTALL AN INSULATION JACKET ON EXTERNALLY-INSULATED HVAC DUCTWORK LOCATED OUTDOORS; AND INDOORS EXCEPT IN MECHANICAL ROOMS AND ABOVE CEILINGS.
    - INSULATE OUTSIDE AIR INTAKE DUCTS IF LOCATED IN NON-MECHANICAL ROOM INDOORS SPACE.
12. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS IN METALLIC AND NONMETALLIC DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE AND NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. CLOSURE SYSTEMS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED "181A-P"FOR PRESSURE-SENSITIVE TAPE, "181 A-M"FOR MASTIC OR "181 A-H"FOR HEAT-SENSITIVE TAPE. CLOSURE SYSTEMS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-FX"FOR PRESSURE-SENSITIVE TAPE OR "181B-M"FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-C."CLOSURE SYSTEMS USED TO SEAL METAL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY DUCT.

    EXCEPTION: CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN (500 PA) PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.
13. DUCTS SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10 FEET AND SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. FLEXIBLE AND OTHER FACTORY-MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
14. ALL EQUIPMENT AND APPLIANCES, INCLUDING THE AIR CONDITIONER, WATER HEATER AND FURNACE, SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE PROVIDED ON SITE AT THE TIME OF INSPECTION.
15. ALL SYSTEMS >4.5 TONS REQUIRE ECONOMIZER FAULT DETECTION AND DIAGNOSIS. PER IECC C403.2.4.7
16. INSULATE ALL PIPING PER TABLE IECC C403.11.3
17. SYSTEM ADJUST AND BALANCE PROVIDE TEST AND BALANCE REPORT PER (AIR AND WATER) IECC C408.2.2, PROVIDE REPORT TO THE MUNICIPALITY PRIOR TO THE FINAL INSPECTION. PROVIDE A COPY TO THE FIELD INSPECTOR AT TIME OF FINAL INSPECTION.
18. PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, WIND, ETC. AND SHALL PROVIDE SHIELDING FORM SOLAR RADIATION THAT CAN CAUSE DEGRADATIONS OF THE MATERIAL (ADHESIVE TAPE'S SHALL NOT BE PERMITTED)
19. PROVIDE MAINTENANCE INFO & SYSTEM COMMISSIONING PER IECC C408. CORD. W/ G.C.

ISSUES AND REVISIONS :

NO:	BY:	DATE:	DESCRIPTION:
1	CV	02/06/2023	PLAN REVISIONS PER NAPERVILLE BUILDING DEPARTMENT REQUEST

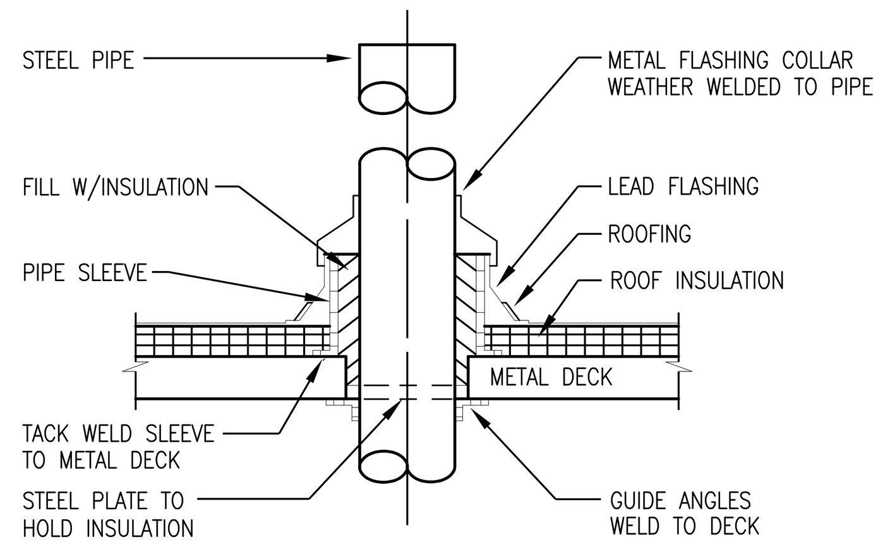
NOTE TO BUILDING DEPARTMENT:
THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECTS ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.

TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

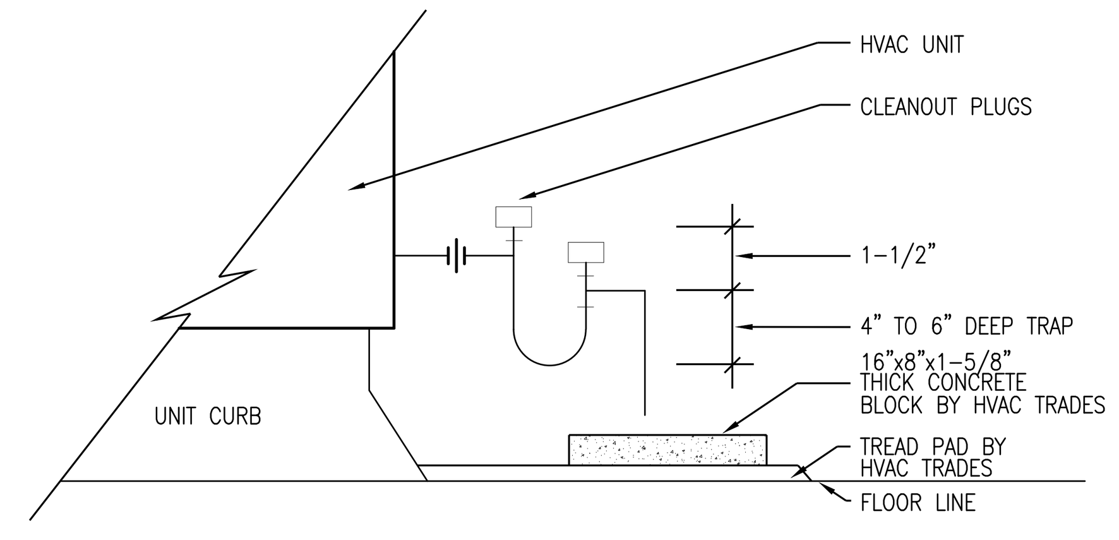
DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE:
10/11/2022

SHEET NUMBER :
M-2.1

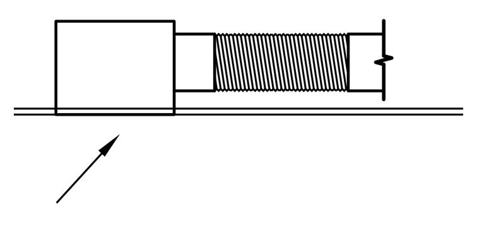


NOTE: PROVIDE EXPANDING TYPE SILICONE FIRE RATED SEALANT.

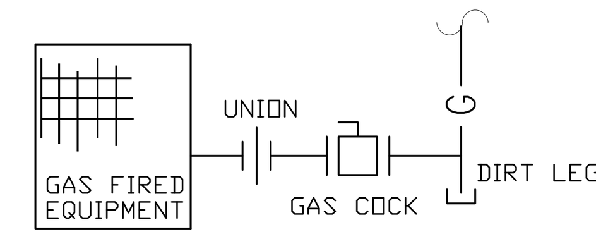
PIPE PENETRATION THRU ROOF
SCALE: NTS



AHU/RTU UNIT CONDENSATE DRAIN DETAIL
SCALE: NTS

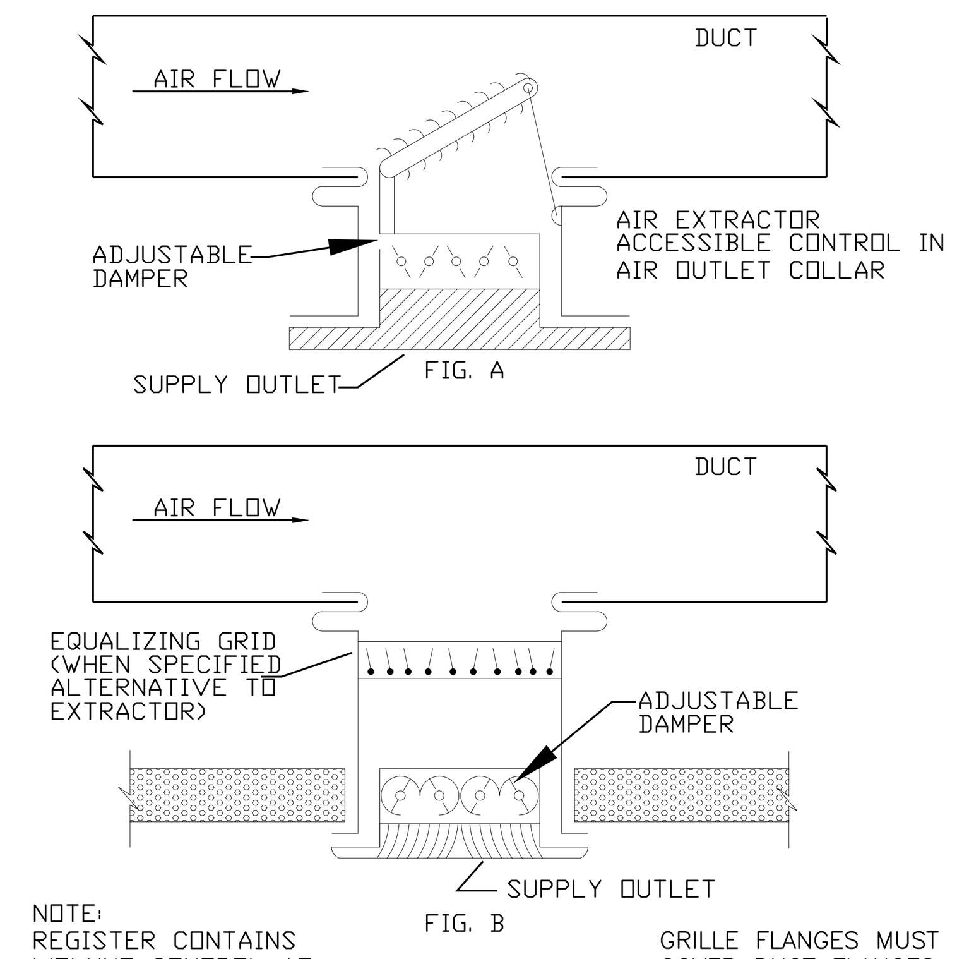


EXHUAST FAN DETAIL
SCALE: NONE



NOTE: PROVIDE REGULATORS ON EACH EQUIPMENT

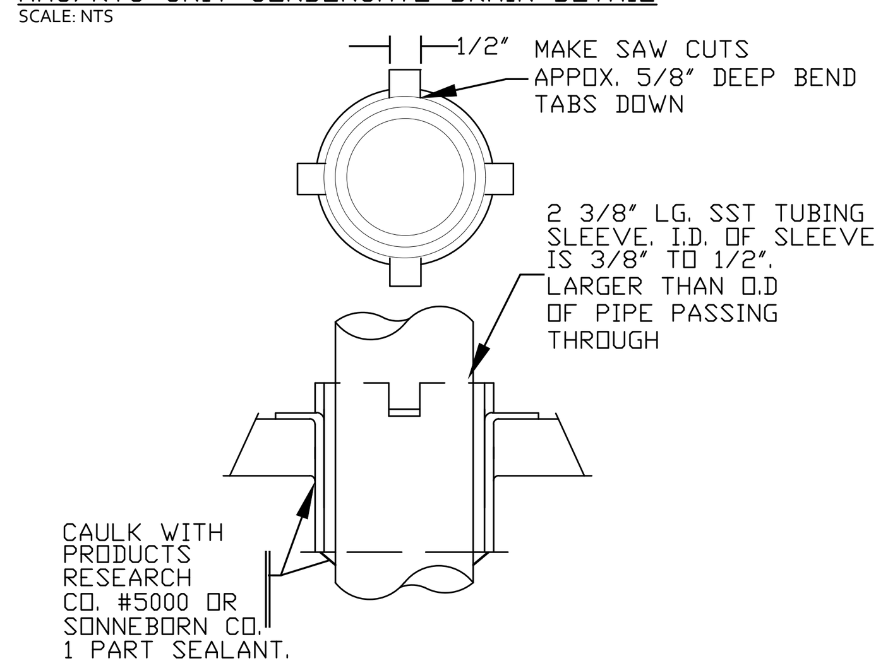
TYPICAL GAS PIPING DIAGRAM
SCALE: NONE



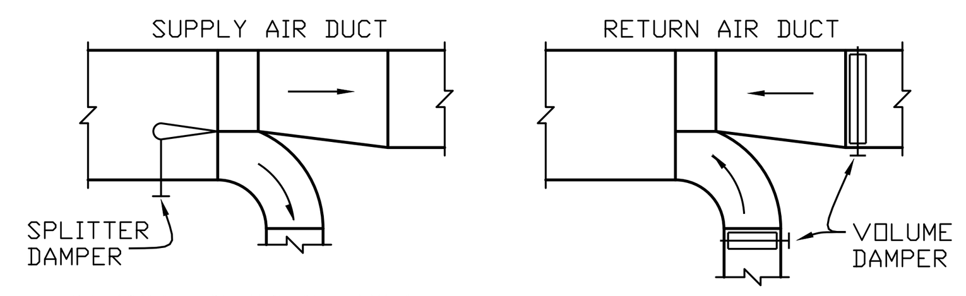
NOTE:
REGISTER CONTAINS VOLUME CONTROL AT GRILLE. GRILLE HAS NO VOLUME CONTROL.

GRILLE FLANGES MUST COVER DUCT FLANGES.

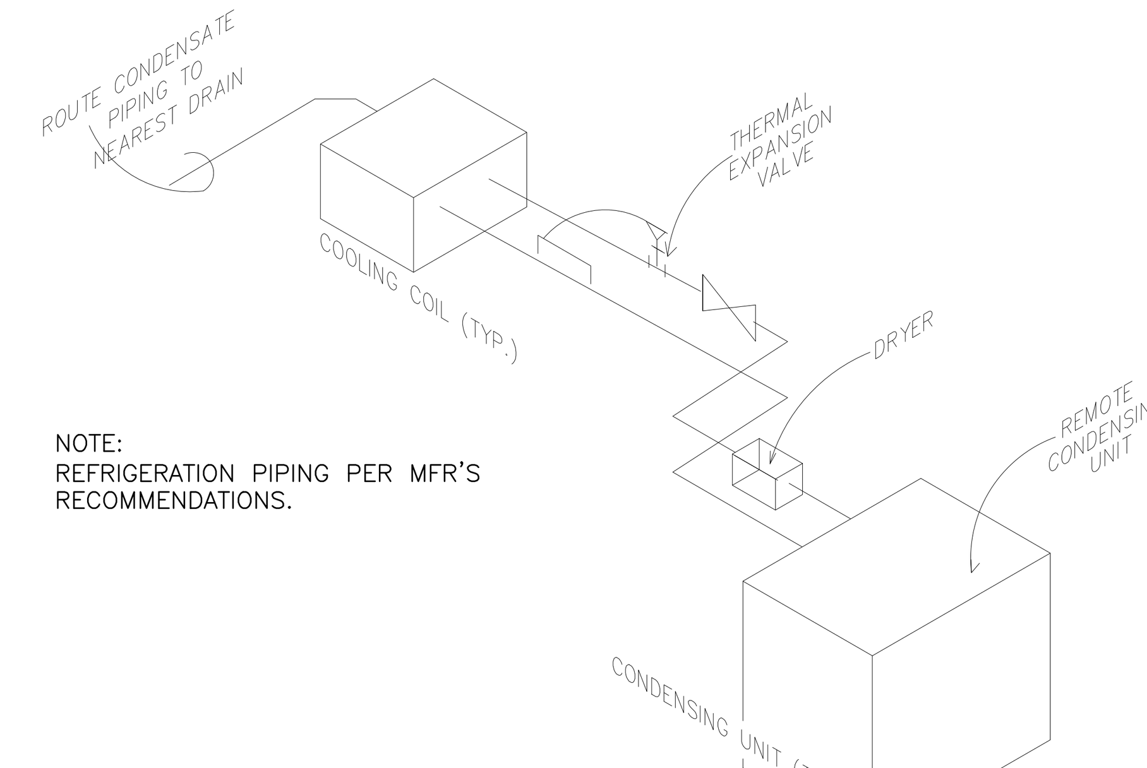
GRILLE AND REGISTER CONNECTION
SCALE: NONE



CEILING SLEEVE DETAIL
SCALE: NONE

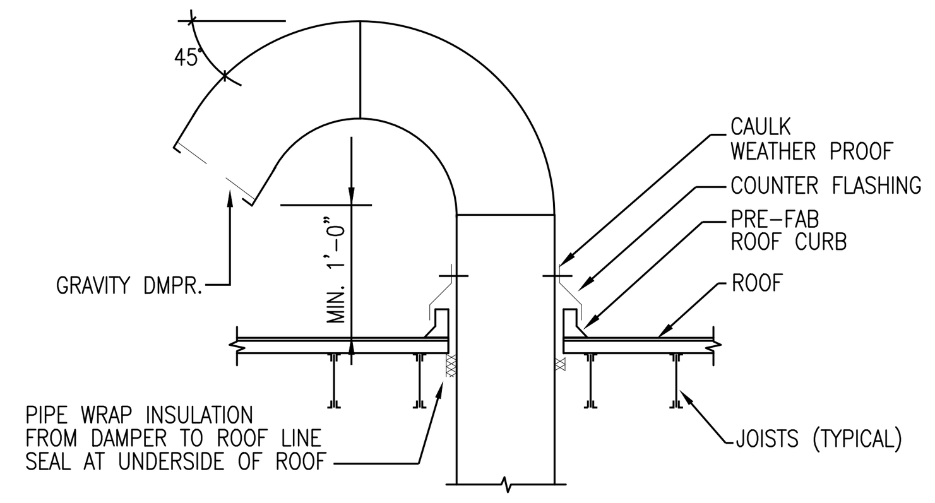


TYPICAL DUCT BRANCH
SCALE: NTS

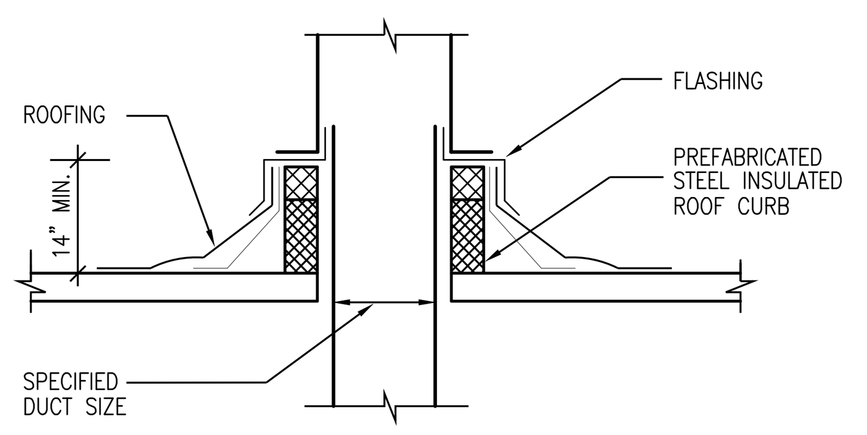


NOTE:
REFRIGERATION PIPING PER MFR'S RECOMMENDATIONS.

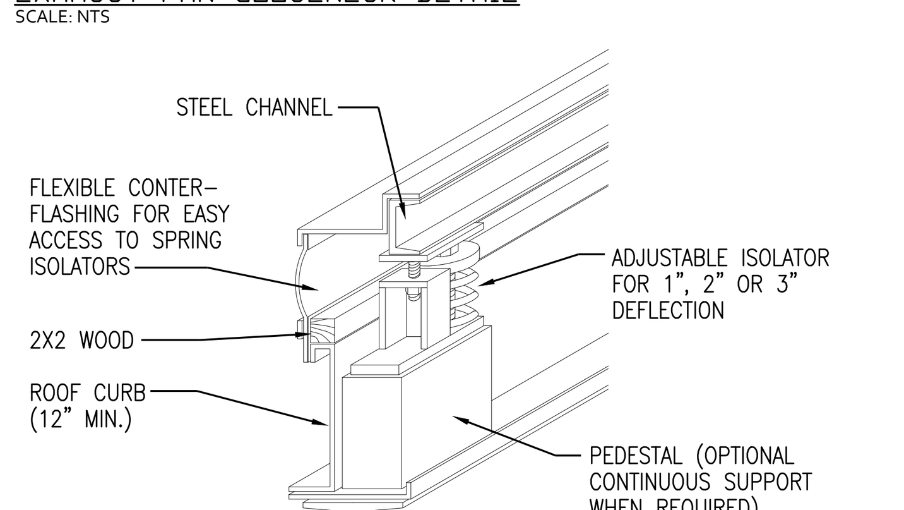
REMOTE REFRIGERATION DIAGRAM TYP.
SCALE: NTS



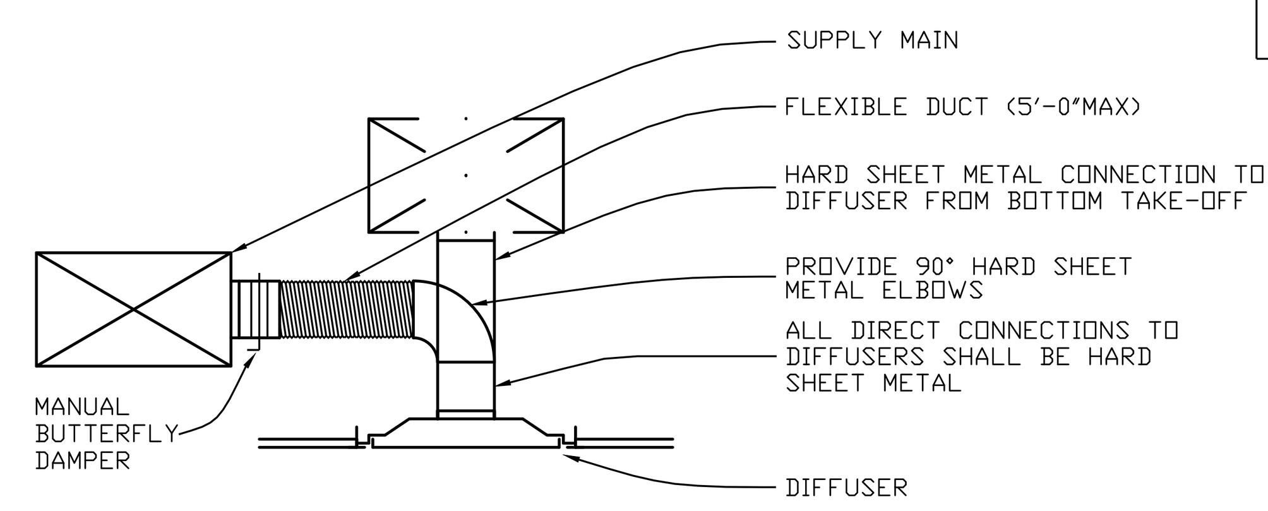
EXHAUST FAN GOOSENECK DETAIL
SCALE: NTS



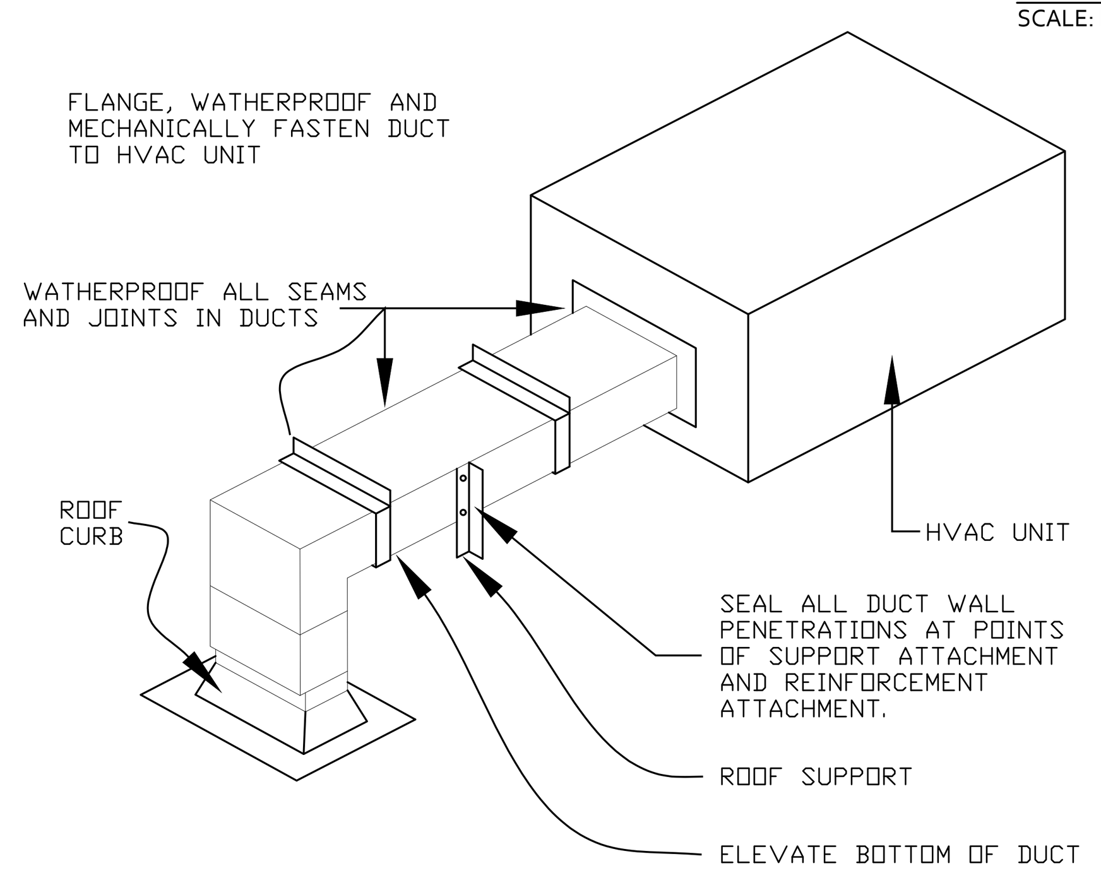
DUCT PENETRATION OF ROOF AND COUNTER FLASHING
SCALE: NTS



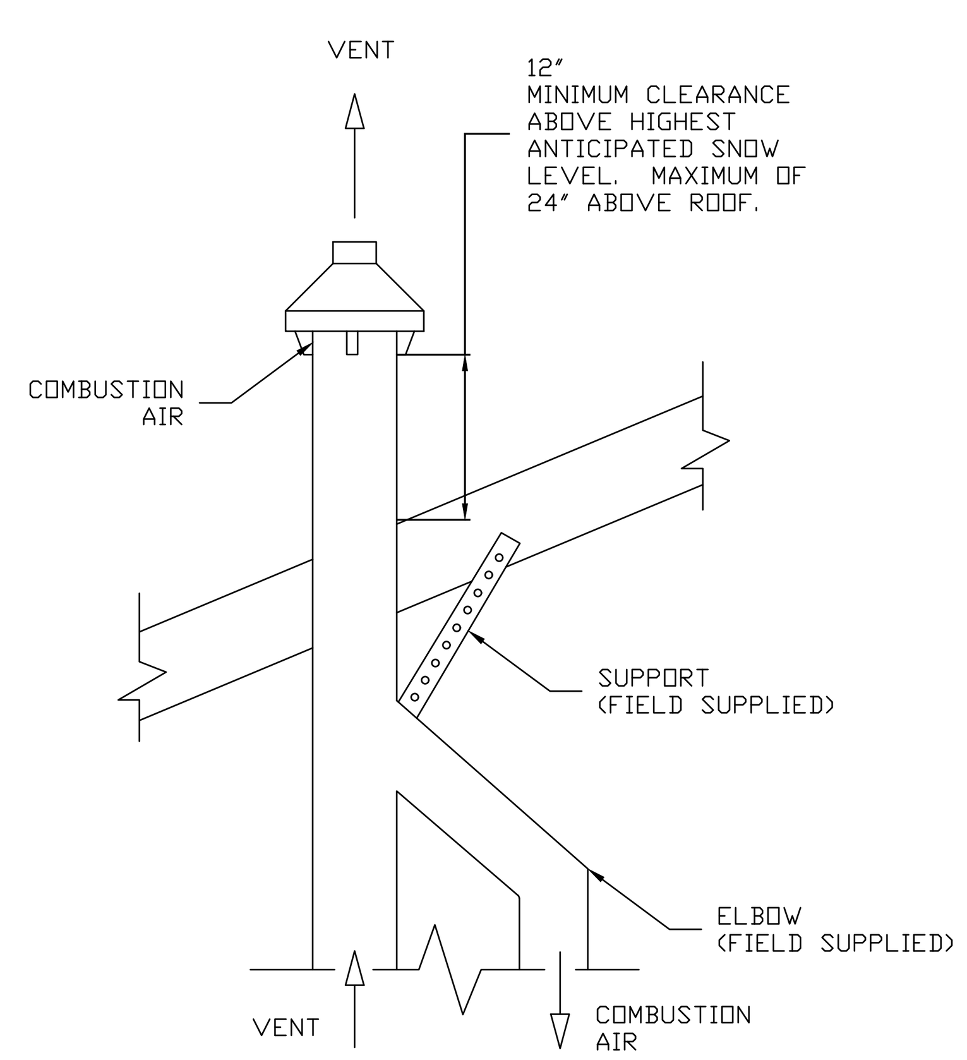
VIBRO-CURB DETAIL
SCALE: NTS



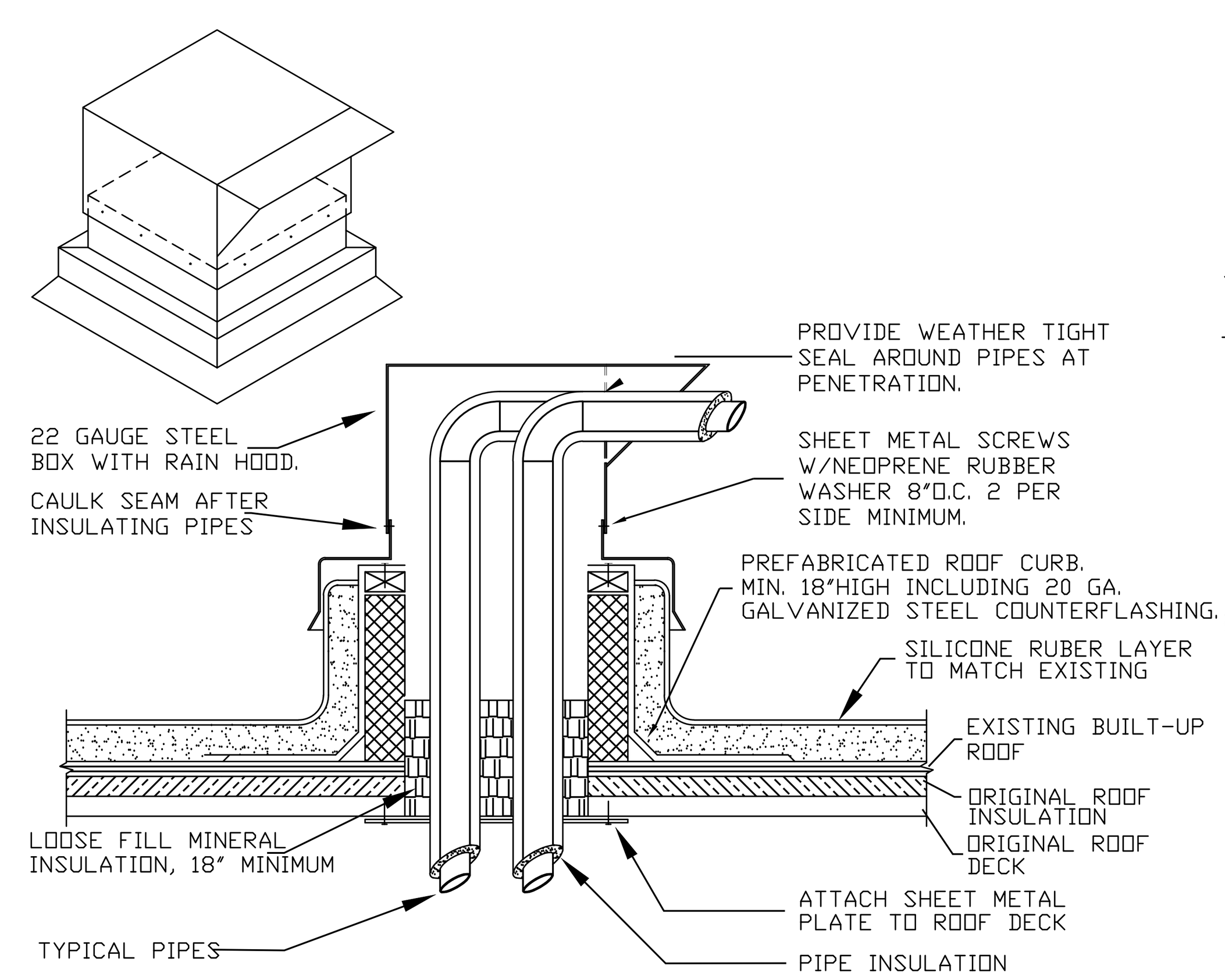
DIFFUSER INSTALLATION DETAIL
SCALE: NONE



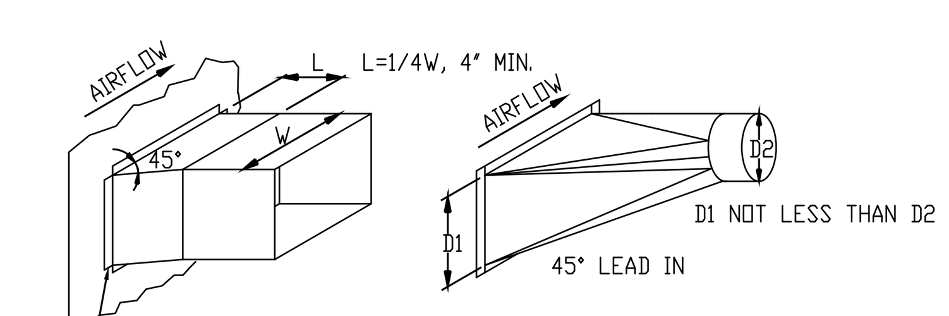
ROOFTOP or GRADE DUCT INSULATION
SCALE: NTS



CONCENTRIC VENT DETAIL
SCALE: NTS



PIPE PENETRATION DETAIL THRU ROOF AND ROOF CURB DETAIL
SCALE: NTS



NOTES:
1. SEAL ALL JOINTS WITH MASTIC.
2. EXTRACTORS ARE NOT PERMITTED.
3. SPLITTER DAMPERS ARE NOT PERMITTED.

RECTANGULAR/ROUND DUCT BRANCH CONNECTION DETAILS
SCALE: NONE

SYMBOL LIST

CONTROL SYMBOLS

SYMBOL	DESCRIPTION
8	DIGITAL INPUT
8	ANALOG INPUT
8	DIGITAL OUTPUT
8	ANALOG OUTPUT
	CONTROL VALVE (ELECTRICAL)
	CONTROL VALVE (PNEUMATIC)
DPS	DIFFERENTIAL PRESSURE SWITCH
VSC	VARIABLE SPEED CONTROLLER
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
ES	END SWITCH
	MOTOR OPERATED DAMPER
V	VELOCITY SENSOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
SD	SMOKE DETECTOR

ABBREVIATIONS

SYMBOL	DESCRIPTION
FD	FIRE DAMPER
H.P.	HORSE POWER
EXP VLV	EXPANSION VAVLE
MBH	THOUSAND BRITISH THERMAL UNITS
MFG.	MANUFACTURER
MTD.	MOUNTED
PH.	PHASE
R.P.M.	REVOLUTIONS PER MINUTE
T-STAT	THERMOSTAT
V	VOLTS
VEL.	VELOCITY
W.C.	INCHES IN WATER COLUMN
TG	TRANSFER GRILLE
DN	DOWN
CFH	CUBIC FEET PER HOUR
GPS	GEOEXCHANGE PIPE SUPPLY
GPR	GEOEXCHANGE PIPE RETURN
CAI	COMBUSTION AIR INTAKE
RBD	ROUND BACKDRAFT DAMPER
TYP	TYPICAL
S.A.	SUPPLY AIR DUCT
R.A.	RETURN AIR DUCT
E.A.	EXHAUST AIR DUCT
O.S.A.	OUTSIDE AIR
C.D.	CEILING DIFFUSER
C.F.M.	CUBIC FEET PER MINUTE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
CAP.	CAPACITY
CLG.	CEILING
CONN.	CONNECTION

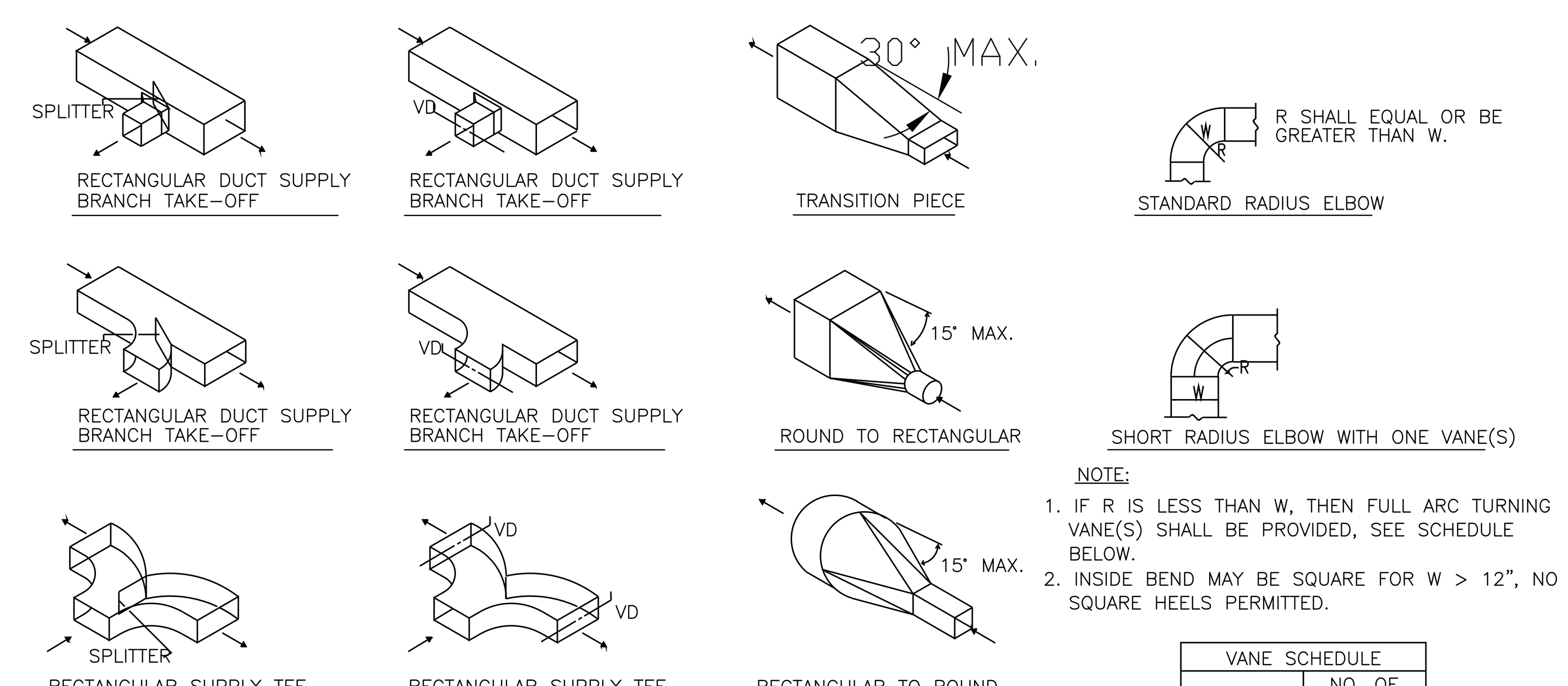
VENTILATION SYMBOLS

SINGLE LINE	DOUBLE LINE	DESCRIPTION
20 x 12	20 x 12	NEW DUCTWORK - WxD AIRWAY DIMENSIONS
		DUCT SECTION - SUPPLY UP
		DUCT SECTION - SUPPLY DOWN
		DUCT SECTION - RETURN OR EXHAUST UP
		DUCT SECTION - RETURN OR EXHAUST DOWN
		DUCT SECTION - SUPPLY UP/DN
R	R	INCLINED RISE W/RESPECT TO AIR FLOW
D	D	INCLINED DROP W/RESPECT TO AIR FLOW
		FLEXIBLE CONNECTION TO EQUIPMENT
48x24	48x24	LOUVER & SCREEN WxD GROSS OPENING
		FLEXIBLE DUCT
		VOLUME DAMPER WITH QUADRANT LOCKING
M	M	MOTORIZED DAMPER
		SPLITTER DAMPER
BDD	BDD	BACK DRAFT DAMPER (GRAVITY)
FD	FD	FIRE DAMPER, SLEEVE & ACCESS DOOR
		AIR EXTRACTING VANES
		TURNING VANES. DOUBLE THICKNESS AIRFOIL TYPE.
SYSTEM RISER NO.	SYSTEM RISER NO.	RISER MARK
T	T	THERMOSTAT 7-DAY PROGRAMMABLE (G) W/GUARD
S	S	SENSOR
H	H	HUMIDISTAT
700-R 20x12	700-R 20x12	EXHAUST OR RETURN AIR REGISTER
700-S 20" dia.	700-S 20" dia.	ROUND CEILING SUPPLY DIFFUSER
700-S 20x12	700-S 20x12	RECTANGULAR CEILING SUPPLY DIFFUSER
700-S 20x12	700-S 20x12	SIDE WALL SUPPLY REGISTER W/VOLUME DAMPER
24x18 DG	24x18 DG	DOOR GRILLE W/BUILT-IN FIRE DAMPER IF LOCATED ON A FIRE DOOR.
		LINEAR DIFFUSER W/BOOT. NO VOLUME DAMPER IN BOOT.
		AIR VALVE
		TERMINAL UNIT-VARIABLE VOLUME INTEGRAL DIFFUSER
U	U	UNDERCUT DOOR MINIMUM 1"
		ROOF MOUNTED POWER OR GRAVITY ROOF VENTILATOR
		ROOF MOUNTED AIR INTAKE
		ELECTRIC DUCT HEATER

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	PRESSURE GAUGE AND COCK
	STRAINER
	STRAINER W/BLOW-OFF VALVE
	THERMOMETER
P/T	PRESSURE / TEMPERATURE SENSOR
	CAP
	UNION
	ANCHOR W/ALIGNMENT GUIDES
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PRESSURE RED. VALVE
	RELIEF VALVE
	TRIPLE DUTY VALVE
	CHECK VALVE (SP) SPRING
	BALANCING VALVE
	GLOBE VALVE
	GATE VALVE
	BUTTERFLY VALVE - WHEN DIA. > 2" / BALL VALVE - WHEN DIA. < 2"
M	VALVE WITH MEMORY STOP
	GAS COCK
	CONTROL VALVE, 2-WAY
	CONTROL VALVE, 3-WAY
	CIRCUIT SETTER
BF	CODE BACKFLOW PREVENTOR
	UNIT HEATER - HORIZONTAL
	PIPE DOWN
	PIPE UP
	NEW PIPING
	PIPING ASSEMBLY - SEE DETAIL
V	VENT (MANUAL OR AUTOMATIC)
	FLOW CONTROL FITTING
FI	FLOW INDICATOR
FS	FLOW SWITCH
PS	PRESSURE SWITCH
	BASE MOUNTED PUMP - SEE DETAIL
P	IN-LINE PUMP - SEE DETAIL
	EQUIPMENT (SPECIFIED BY TAG BELOW)
TAG #	EQUIPMENT TAG W/NUMBER
D	DRAIN LINE
G	GAS LINE
V	VENT LINE
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
CHWS	CHILLED WATER HEATING SUPPLY
CHWR	CHILLED WATER HEATING RETURN
SL	REFRIGERANT SUCTION LINE
LL	REFRIGERANT LIQUID LINE
CR	CONDENSATE RETURN LINE
CDW	CONDENER WATER LINE

NOTE: NOT ALL SYMBOLS ARE APPLICABLE TO THIS PROJECT.



NOTE:
1. IF R IS LESS THAN W, THEN FULL ARC TURNING VANE(S) SHALL BE PROVIDED, SEE SCHEDULE BELOW.
2. INSIDE BEND MAY BE SQUARE FOR W > 12", NO SQUARE HEELS PERMITTED.

VANE SCHEDULE	
WIDTH	NO. OF VANES
≤ 12"	1
12"-24"	2
24"-36"	3
36"-60"	4
60"-84"	5
> 84"	6

NOTES:
1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
2. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED & FASTENED AS RECOMMENDED BY SMACNA.
3. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED.

TYPICAL DUCT DETAILS
SCALE: NTS

ROBERT N. RAFSON
062-049931
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS

ISSUES AND REVISIONS :

NO.	BY:	DATE:	DESCRIPTION:
1	GV	02/06/2023	PLAN REVISIONS PER NAPERVILLE BUILDING DEPARTMENT REQUEST

NOTE TO BUILDING DEPARTMENT:
THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECTS ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.

TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :

JOB NUMBER :

DATE:
10/11/2022

SHEET NUMBER :
M-2.2

THE DEVELOPER SHALL SUPPLY DPU0E WITH CATALOG CUTS FOR METER, PT, CT AND DISCONNECT CABINETS PRIOR TO ORDERING. THE CATALOG CUTS MUST BE APPROVED BY DPU-E PRIOR TO INSTALLATION. COPIES OF THE METERING REQUIREMENTS CAN BE OBTAINED BY CONTACTING ELECTRIC UTILITY MANAGER TIM FELSTRUP AT FELSTRUPT@NAPERVILLE.IL.US.

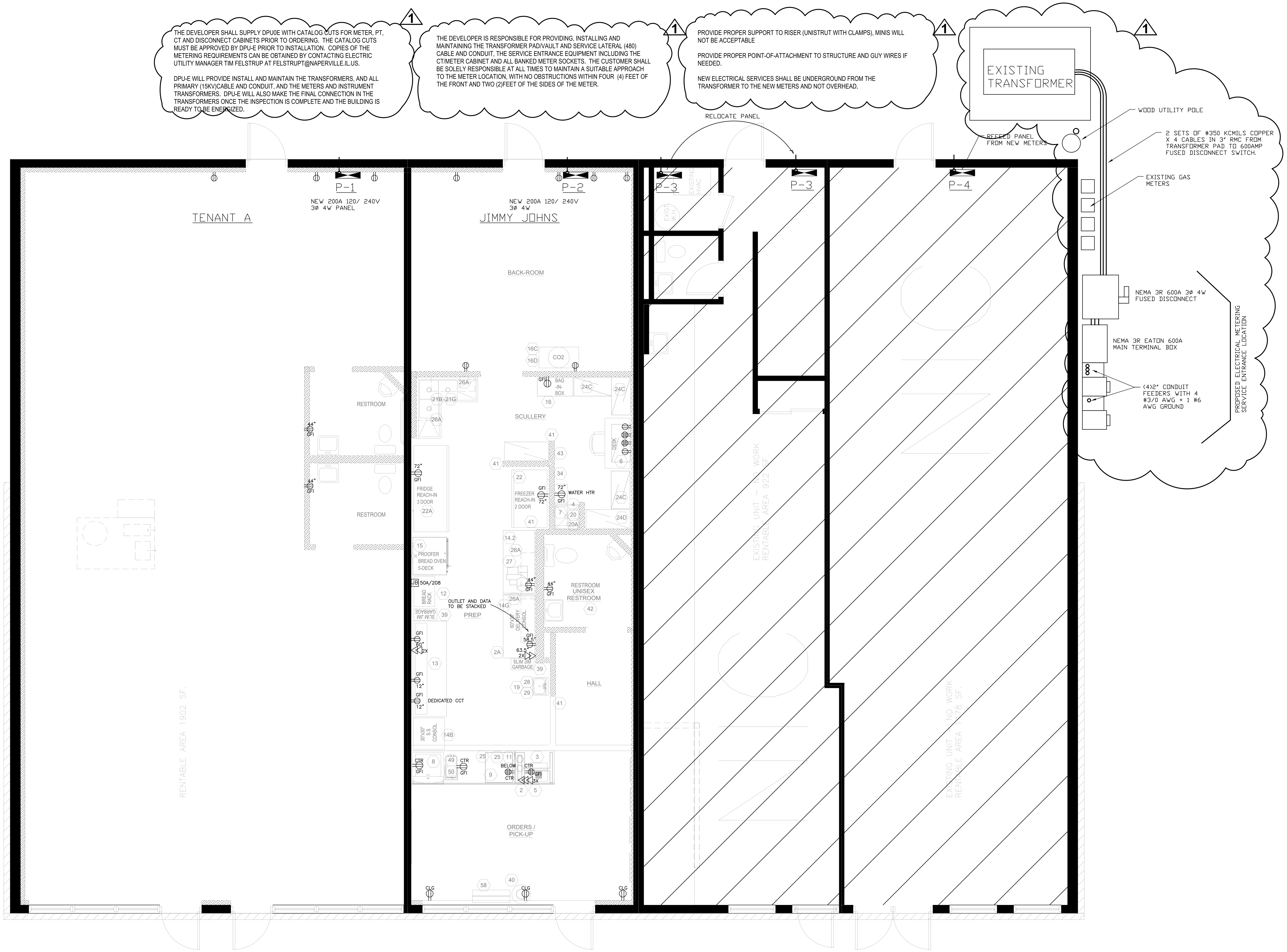
DPU-E WILL PROVIDE INSTALL AND MAINTAIN THE TRANSFORMERS, AND ALL PRIMARY (15KV)CABLE AND CONDUIT, AND THE METERS AND INSTRUMENT TRANSFORMERS. DPU-E WILL ALSO MAKE THE FINAL CONNECTION IN THE TRANSFORMERS ONCE THE INSPECTION IS COMPLETE AND THE BUILDING IS READY TO BE ENERGIZED.

THE DEVELOPER IS RESPONSIBLE FOR PROVIDING, INSTALLING AND MAINTAINING THE TRANSFORMER PAD/VAULT AND SERVICE LATERAL (480) CABLE AND CONDUIT, THE SERVICE ENTRANCE EQUIPMENT INCLUDING THE CT/METER CABINET AND ALL BANKED METER SOCKETS. THE CUSTOMER SHALL BE SOLELY RESPONSIBLE AT ALL TIMES TO MAINTAIN A SUITABLE APPROACH TO THE METER LOCATION, WITH NO OBSTRUCTIONS WITHIN FOUR (4) FEET OF THE FRONT AND TWO (2)FEET OF THE SIDES OF THE METER.

PROVIDE PROPER SUPPORT TO RISER (UNISTRUT WITH CLAMPS), MINIS WILL NOT BE ACCEPTABLE

PROVIDE PROPER POINT-OF-ATTACHMENT TO STRUCTURE AND GUY WIRES IF NEEDED.

NEW ELECTRICAL SERVICES SHALL BE UNDERGROUND FROM THE TRANSFORMER TO THE NEW METERS AND NOT OVERHEAD.



A POWER FLOOR PLAN

1/4" = 1'-0"

ISSUES AND REVISIONS :

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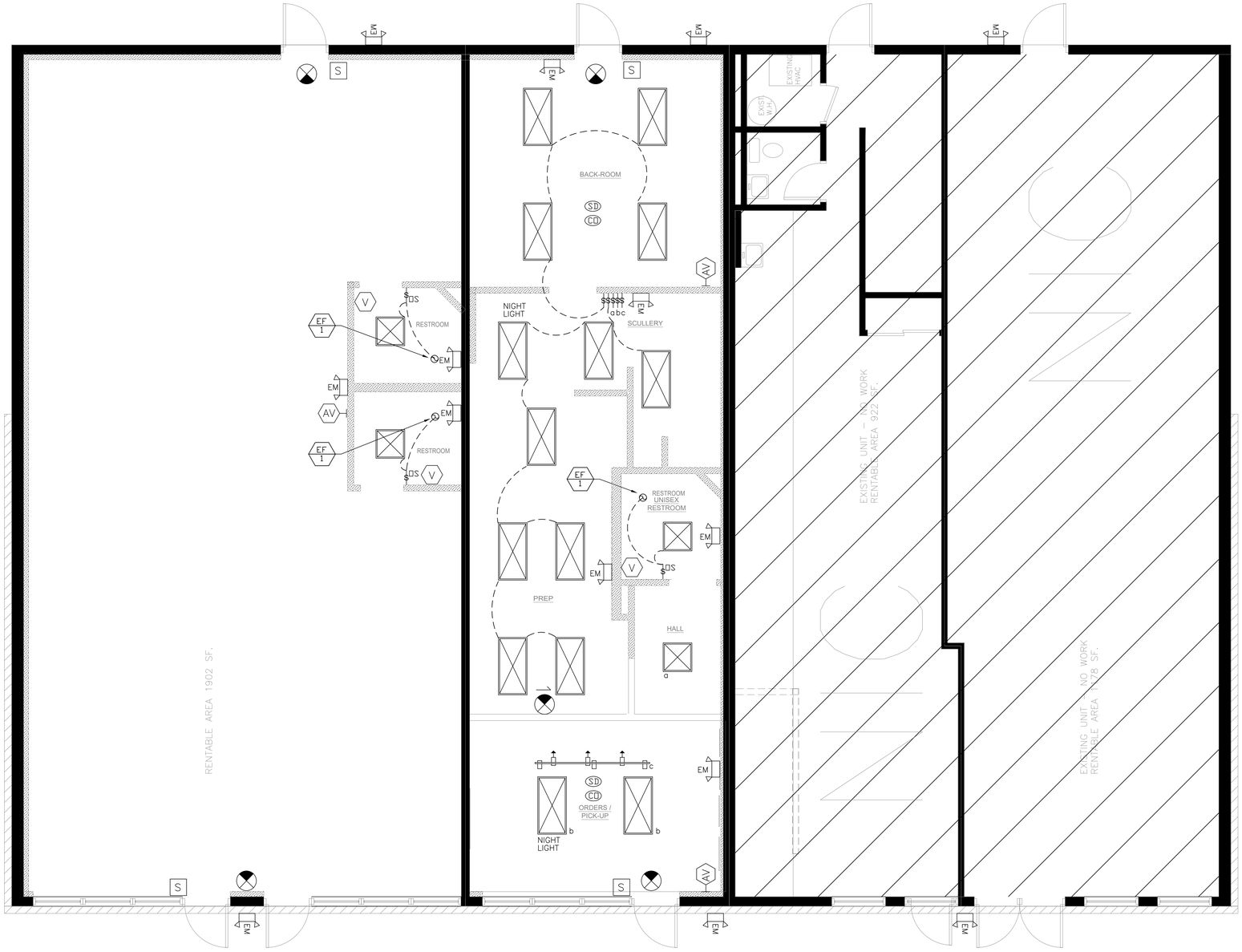
10/11/2022

ROBERT N. RAFSON 062-049931 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

SHEET NUMBER :

E-1.0



A LIGHITNG FLOOR PLAN
1/4" = 1'-0"

ISSUES AND REVISIONS :

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JS Fort Group, Inc.
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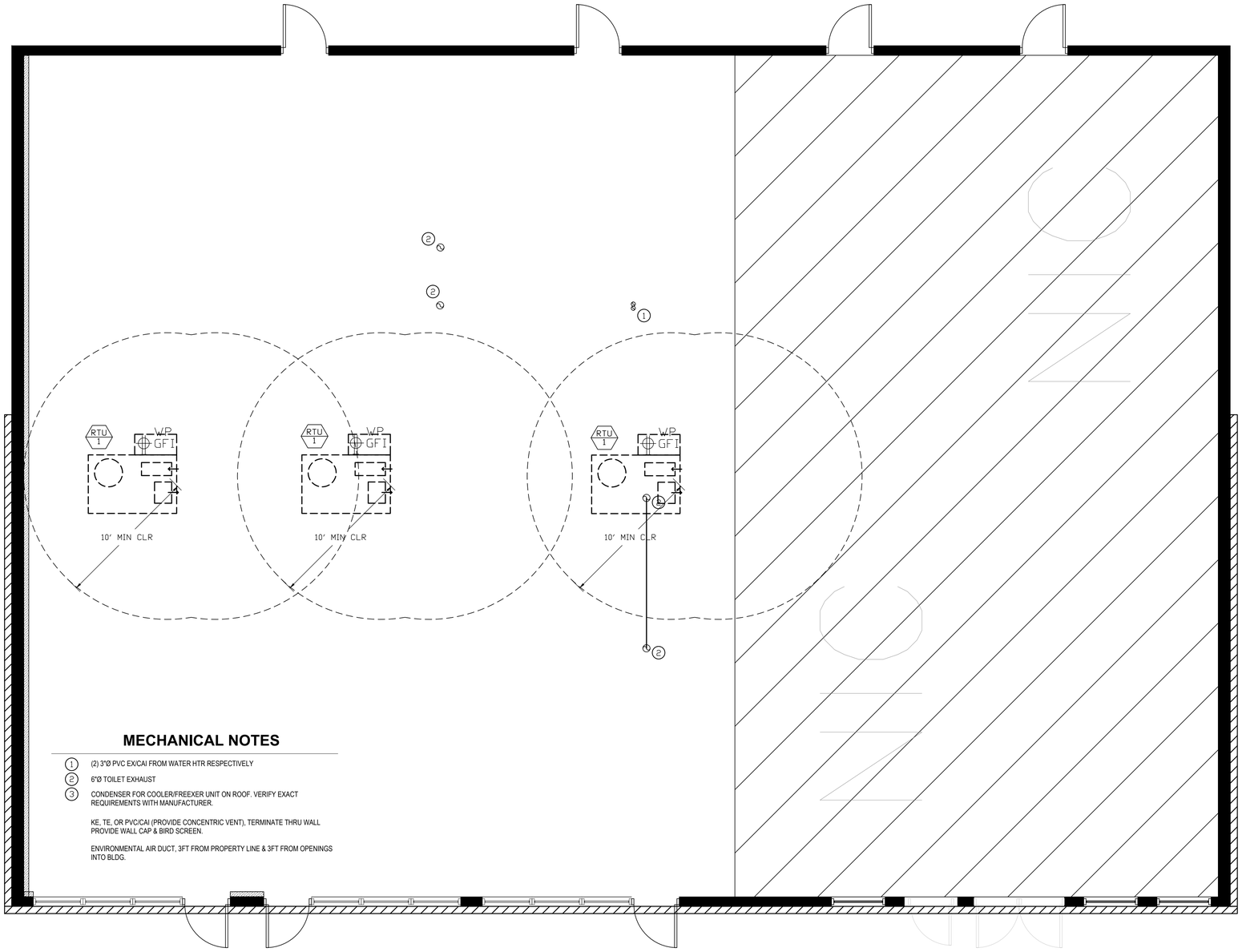
JOB NUMBER :
DATE:
10/11/2022

ROBERT N. RAPSON
062-049931
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS

SHEET NUMBER :
E-1.1



MECHANICAL NOTES

1. (2) 3"Ø PVC EX/CAI FROM WATER HTR RESPECTIVELY
2. 6"Ø TOILET EXHAUST
3. CONDENSER FOR COOLER/FREEXER UNIT ON ROOF. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER.

KE, TE, OR PVC/CAI (PROVIDE CONCENTRIC VENT), TERMINATE THRU WALL PROVIDE WALL CAP & BIRD SCREEN.

ENVIRONMENTAL AIR DUCT, 3FT FROM PROPERTY LINE & 3FT FROM OPENINGS INTO BLDG.

A ROOF POWER FLOOR PLAN
1/4" = 1'-0"

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SHEET NUMBER :
E-1.2

GENERAL ELECTRICAL NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS)

1. DEFINITIONS:

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.

"INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

"PROVIDE" MEANS TO "FURNISH" AND "INSTALL".

"FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES:

THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, AND NATIONAL CODES. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING. THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELEIVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

6. PERMITS

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING PRODUCT SPECIFICATIONS. ALL ROOF PENETRATIONS SHALL BE SEALED WATERTIGHT AT THE END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY MOTOR-EQUIPPED, 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

11. CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SACLED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRESAFING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

14. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD.

15. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE MACHINE-PRINTED, PRESSURE SENSITIVE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PANELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

16. UTILITY COMPANY COORDINATION

THE CONTRACTOR SHALL PERFORM ALL COORDINATION AND SCHEDULING OF THE INSTALLATION OF THE NEW ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY.

17. EXCAVATION/UNDERGROUND UTILITIES

UNDERGROUND UTILITY LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR FIBER-OPTIC CABLE CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT UTILITY LOCATE SERVICES HAVE BEEN COMPLETED BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING IS DEMOLISHED, DRILLED, OR CUT, REGARDLESS OF THE LOCATION ON THE PROPERTY.

18. PANELBOARDS

ALL PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY, CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILLY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

19, CABLEING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER THE NEC. UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING SHALL BE (2) #12 AND (1) #12 G IN 3/4" C.

20. CABLE SIZING

BRANCH CIRCUIT CABLE SIZE SHALL BE ADJUSTED BASED ON THE CONDUCTOR LENGTH, AS INDICATED BELOW:

A.) 120/208V CABLING FROM PANEL TO ELECTRICAL LOAD SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:

LESS THAN 100 FEET, USE #12 AWG MINIMUM
FROM 100 TO 200 FEET, USE #10 AWG MINIMUM
FROM 200 TO 250 FEET, USE #8 AWG MINIMUM

B.) 277/480277/480V CABLING FROM PANEL TO ELECTRICAL LOAD SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:

FROM 0 TO 150 FEET, USE #12 AWG MINIMUM
FROM 150 TO 250 FEET, USE #10 AWG MINIMUM
FROM 250 TO 300 FEET, USE #8 AWG MINIMUM

21. COMMUNICATIONS WIRING CONDUIT SIZING

ALL HORIZONTAL TELEPHONE, DATA AND CABLE TELEVISION OUTLET WIRING IN RESIDENTIAL UNITS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND SHALL TERMINATE IN THE COMMON TELE/DATA ROOM/CLOSET AT EACH FLOOR LEVEL. ALL MAIN BACKBONE RISER TELEPHONE, DATA AND CABLE TELEVISION WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS FOR DATA AND TELEPHONE OUTLETS (EXCEPT WITHIN RESIDENTIAL UNITS) AS FOLLOWS:

3 CABLES-3/4"C	13 CABLES-1 1/2"C	47 CABLES-3"C
5 CABLES-1"C	21 CABLES-2"C	63 CABLES-3 1/2"C
9 CABLES-1 1/4"C	30 CABLES-2 1/2"C	81 CABLES-4"C

22. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE NEC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF THE NEC.

23. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

24. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 15 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE, CONDUIT AND OVERCURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE NEC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 15 WORK, WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION. PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT: LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

25. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH 2006 NEC ARTICLES 410, 300-11 ETC.

GENERAL LOW VOLTAGE CABLING NOTES:

1. ALL TELEPHONE CABLING SHALL BE CAT 5e AND SHALL HOMERUN FROM EACH TELEPHONE OUTLET LOCATION TO THE TELEPHONE DISTRIBUTION POINT LOCATED IN THE MECH/ELEC ROOM AT EACH FLOOR.
2. ALL TELEVISION OUTLET CABLE SHALL BE COAXIAL RG-6 AND SHALL HOMERUN TO TELEVISION DISTRIBUTION POINT LOCATED IN THE MECH/ELEC ROOM AT EACH FLOOR.
3. CONDUIT IS NOT REQUIRED FOR TELEPHONE, DATA, OR TELEVISION CABLING.

ELECTRICAL ABBREVIATIONS:

A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DISC	DISCONNECT
DWG	DRAWING
EMER	EMERGENCY
EQUIP	EQUIPMENT
E.C.	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
(E)	EXISTING
FDR	FEEDER
FLEX	FLEXIBLE
G	GROUND WIRE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
HP	HORSE POWER
KVA	KILO VOLT AMPERE
KW	KILOWATT
LC	LIGHTING CONTRACTOR
LV	LOW VOLTAGE
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURE
MISC	MISCELLANEOUS
MTG	MOUNTING
(N)	NEW WORK
NEUT	NEUTRAL
NL	NIGHT LIGHTING
NTS	NOT TO SCALE
PB	PUSH BUTTON
PH	PHASE
PNL	PANEL
PRI	PRIMARY
PWR	POWER
(R)	RELOCATED
RGS	RIGID GALVANIZED STEEL CONDUIT
SEC	SECONDARY
SP	SPARE
SW	SWITCH
TEL	TELEPHONE
V	VOLTS
VA	VOLT AMPERES
VM	VOLT METER
W	WATT OR WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER
100AF	100 AMPERES FRAME
100AT	100 AMPERES TRIP

ELECTRICAL SYMBOL LIST

	DISTRIBUTION
⊠	COMBINATION MAGNETIC MOTOR STARTER/CONTROLLER WITH NON-FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE (THREE POLES UNLESS OTHERWISE NOTED).
☐	NON-FUSED DISCONNECT SWITCH. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT AND MAKE FINAL CONNECTION. (THREE POLES UNLESS OTHERWISE NOTED).
⧄	FUSED DISCONNECT SWITCH. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT AND MAKE FINAL CONNECTION. (THREE POLES UNLESS OTHERWISE NOTED).
VFC	VARIABLE FREQUENCY CONTROLLER. COORDINATE WITH MECHANICAL DRAWINGS
PC	PRE-WIRED PACKAGED CONTROLLER PROVIDED WITH MECHANICAL EQUIPMENT, INSTALLED, WIRED AND TERMINATED BY ELECTRICAL CONTRACTOR.
⌒	CIRCUIT BREAKER TYPE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE
▬	SURFACE MOUNTED PANELBOARD
▨	SURFACE MOUNTED POWER DISTRIBUTION PANELBOARD
▭	MISCELLANEOUS PANELS AND CABINETS. TYPE AS INDICATED ON PLANS.
⊘	MOTOR CONNECTION. PROVIDE LIQUID-TIGHT FLEXIBLE CONNECTION AND JUNCTION BOX.
XXX X	EQUIPMENT TAG. REFER TO EQUIPMENT FEEDER SCHEDULE FOR WIRING REQUIREMENTS
	RACEWAY
───	EXPOSED CONDUIT
– – –	CONDUIT CONCEALED IN FLOOR OR BELOW GRADE
⌒	CONDUIT CONCEALED IN WALL OR CEILING
──○	CONDUIT TURNED UP
──●	CONDUIT TURNED DOWN
↙	CONDUIT HOMERUN
↙	FEEDER HOMERUN WITH WIRES AS INDICATED GROUND CONDUCTOR NEUTRAL CONDUCTOR PHASE CONDUCTORS
Ⓙ	JUNCTION BOX WITH BLANK COVER
Ⓙ	CEILING OR WALL MOUNTED JUNCTION BOX WITH BLANK COVER AND A MAX. 6'-0" FLEXIBLE LIQUID-TIGHT CONDUIT CONNECTION.
Φ ▽ Φ	SURFACE MOUNTED DUAL SERVICE METAL RACEWAY (WIREMOLD G-4000 WITH IVORY SCUFFCOAT FINISH) WITH DEVICES AS INDICATED ON PLANS.
⦶ ▼ ▽ ▼	FLOOR MOUNTED OUTLETS - FLUSH MOUNTED UNLESS OTHERWISE NOTED
	LIGHTING FIXTURES
F1 ▭ 3a	2'x4' FLUORESCENT LUMINAIRE PER LUMINAIRE SCHEDULE. F1- INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING. 3 - INDICATES CIRCUIT NUMBER a - INDICATES SWITCH CONTROL
├──┤	4' FLUORESCENT STRIP LIGHT
○	RECESSED DOWN LIGHT
⊥○	WALL SCONCE / WALL MOUNTED LIGHT FIXTURE
◪	LIGHTING FIXTURE CONNECTED TO EMERGENCY OR NIGHT LIGHTING SYSTEM
⊗	EXIT SIGN - SHADING INDICATES LIGHTED FACE. ARROW INDICATES STENCIL INDICATED EXIT DIRECTION
▼	WALL MOUNTED EMERGENCY BATTERY LIGHTING UNIT WITH TWO LAMP HEADS. SEE LIGHTING FIXTURE SCHEDULE.
	FIRE ALARM SYSTEM EQUIPMENT
FCP	MULTI-ZONE ADDRESSIBLE FIRE ALARM CONTROL PANEL, FULLY RECESSED IN WALL COMPLETE WITH VOICE COMMUNICATION AND HANDSETS. SHALL COMPLY WITH CITY OF CHICAGO HIGH RISE CODE.
FAP	REMOTE GRAPHIC FIRE ALARM ANNUNCIATOR CONTROL PANEL, WITH L.E.D.'S AND LAMP TEST SWITCH FULLY RECESSED IN WALL.
DDP	REMOTE DUCT DETECTOR ANNUNCIATOR CONTROL PANEL, WITH L.E.D.'S AND LAMP TEST SWITCH FULLY RECESSED IN WALL.
ELP	ELEVATOR SYSTEM ANNUNCIATOR PANEL FULLY RECESSED IN WALL
SD	SMOKE DETECTOR (U.L. 268) COMPLETE WITH BASE, CEILING MOUNTED SUBSCRIPT "I" DENOTES IONIZATION TYPE DETECTOR SUBSCRIPT "P" DENOTES PHOTOELECTRIC TYPE DETECTOR
(SD)	120VAC SMOKE DETECTOR (RESIDENTIAL UNITS ONLY)
(CO)	ADDRESSIBLE CARBON MONOXIDE DETECTOR
DD	HVAC DUCT SMOKE DETECTOR WITH ADDRESSIBLE RELAY, COMPLETE WITH PERFFERATED SAMPLING TUBES. SAMPLING TUBES SHALL EXTEND THE COMPLETE LENGTH OF THE HEADER DUCTWORK.
KS	HVAC DUCT SMOKE DETECTOR LOCAL FAN SHUTDOWN RELAY CONTROL MODULE AND KEYED TEST SWITCH WITH LABEL INDICATING RESPECTIVE HVAC SYSTEM EQUIPMENT SERVED. MOUNT LOCAL KEYED TEST SWITCH WITHIN SIGHT OF RESPECTIVE DUCT SMOKE DETECTOR AT 48" ABOVE FINISHED FLOOR.
RA	DUCT SMOKE DETECTOR REMOTE ANNUNCIATOR STATUS LED LIGHT IN A SINGLE GANG BACKBOX AND COVERPLATE. PROVIDE ENGRAVED IDENTIFICATION LABEL INDICATING EQUIPMENT SERVED.
S	FIRE ALARM SYSTEM DOUBLE ACTION MANUAL PULL STATION (PER A.D.A REQUIREMENTS)
AV	FIRE ALARM SPEAKER DEVICE WITH VISUAL ALARM DEVICE (PER A.D.A. REQUIREMENTS AND CITY OF CHICAGO HIGH RISE CODE)
V	FIRE ALARM VISUAL ALARM DEVICE (PER A.D.A. REQUIREMENTS)
Z	ZONE ADDRESSABLE RELAY MODULE
TB	TROUBLE BELL
VSP	VALVE SUPERVISORY CONTROL PANEL
VSA	VALVE SUPERVISORY ANNUNCIATOR PANEL
VSS	VALVE SUPERVISORY SWITCH
WFS	WATER FLOW SWITCH
AFS	AIR FLOW SWITCH

	CONTROLS
2b	SINGLE POLE TOGGLE SWITCH - NUMBER INDICATES CIRCUIT, LETTER INDICATES SWITCHING CONTROL.
P	SINGLE POLE SWITCH WITH RED L.E.D. PILOT LIGHT
2b 3W	THREE WAY TOGGLE SWITCH - NUMBER INDICATES CIRCUIT, LETTER INDICATES SWITCHING CONTROL.
2b 4W	FOUR WAY TOGGLE SWITCH - NUMBER INDICATES CIRCUIT, LETTER INDICATES SWITCHING CONTROL.
SC	WALL SWITCH WITH SPEED CONTROL
T	FRACTIONAL HORSEPOWER MANUAL SINGLE POLE, TOGGLE MOTOR STARTER WITH THERMAL OVERLOAD RELAY AND RED PILOT LIGHT IN NEMA 1 ENCLOSURE.
D	600 WATT, SINGLE POLE, 120/277 MULTI-VOLT FLUORESCENT DIMMING SWITCH (LUTRON NOVA SERIES)
3D	THREE-WAY, 600 WATT, 120/277 MULTI-VOLT FLUORESCENT DIMMING SWITCH (LUTRON NOVA SERIES)
	SINGLE POLE, 277 VOLT PASSIVE INFARED OCCUPANCY SENSOR WITH MANUAL "OFF-AUTO-ON" OVERRIDE AND ADJUSTABLE TIMER (HEBBELL #HL-OD-1-W)
⊕	COMBINATION SINGLE POLE TOGGLE SWITCH AND DUPLEX RECEPTACLE IN A COMMON DOUDLE-GANG BOX
···	SURFACE MOUNTED, ASSEMBLED THREE BUTTON PUSHBUTTON CONTROL STATION IN DIE CAST ALUMINUM ENCLOSURE (UP - STOP - DOWN) FOR MOTORIZED EQUIPMENT. WALL MOUNTED AT 42" ABOVE FINISHED FLOOR.
⊡	SINGLE-GANG BACKBOX FOR HANDICAP PUSH BUTTON/PAD
	RECEPTACLES
⊖	DUPLEX RECEPTACLE - 20A, 120 VOLT, 1P, 3W, NEMA 5-20R.
⊖⊖	QUADRUPLEX RECEPTACLE - 20A, 120 VOLT, 1P, 3W, NEMA 5-20R, (TWO DUPLEX RECEPTACLES WITH COMMON COVERPLATE.
⊕⊕	QUADRUPLEX RECEPTACLE - 20A, 120 VOLT, 1P, 3W, NEMA 5-20R, MOUNTED VERTICALLY ABOVE COUNTER OR 42" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE (TWO DUPLEX RECEPTACLES WITH COMMON COVERPLATE.
GFI ⊕	GROUND FAULT INTERRUPTER RECEPTACLE - 20A, 120 VOLT, 1P, 3W, NEMA 5-20R.
WP ⊖	CLEAR PLOYCARBONATE WEATHERPROOF ENCLOSURE CONTAINING GROUND FAULT INTERRUPTER RECEPTACLE - 20A, 120 VOLT, 1P, 3W, NEMA 5-20R.
●	DUPLEX ISOLATED GROUND TYPE RECEPTACLE - 20A, 120V, SINGLE PHASE, 3 W, NEMA 5-20R, CONNECTED TO ISOLATED GROUND PANELBOARD. DEVICE AND COVERPLATE SHALL BE ORANGE IN COLOR.
▶	SPECIAL RECEPTACLE (TYPE AND NEMA CONFIGURATION AS INDICATED ON DRAWINGS OR OTHERWISE NOTED. PROVIDE SELF-STICK LABEL ON COVERPLATE INDICATING CIRCUIT NUMBER AND SOURCE.
⊖	DUPLEX RECEPTACLE DEDICATED CIRCUIT- 20A, 2P, 3W, 120V
	TELEPHONE AND DATA
▷	DATA OUTLET – PROVIDE SINGLE GANG OUTLET BOX COMPLETE WITH RJ45 JACK AND COVER PLATE. PROVIDE A 4–PAIR CAT–5e UTP CABLE FROM DATA DEVICE TO TELE/DATA TERMINAL CABINET.
▶	TELEPHONE OUTLET – PROVIDE SINGLE GANG OUTLET BOX COMPLETE WITH RJ45 JACK AND COVER PLATE. PROVIDE A 4–PAIR CAT–5e UTP CABLE FROM DATA DEVICE TO TELE/DATA TERMINAL CABINET.
▷▶	COMBINATION TELEPHONE/DATA OUTLET – PROVIDE SINGLE GANG OUTLET BOX COMPLETE WITH WTO RJ45 JACKS AND COVER PLATE. PROVIDE TWO 4–PAIR CAT–5e UTP CABLES FROM TELE/DATA DEVICE TO TELE/DATA TERMINAL CABINET.
TV	SINGLE–GANG BACKBOX WITH COAXIAL CONNECTOR AND COVERPLATE FOR CABLE T.V. OUTLET CONNECTION. VERIFY EXACT MOUNTING HEIGHT LOCATION WITH ARCHITECT PRIOR TO ROUGH–IN. PROVIDE AN RG–6 COAXIAL CABLE FROM TV DEVICE TO TELEVISION CONNECTOR BOX.
TTC	PBX/TELEPHONE TERMINAL CABINET PROVIDED BY OTHERS
	SECURITY EQUIPMENT
▭◁	SECURITY SYSTEM MINI-DOME CAMERA COMPLETE WITH DOUBLE-GANG BACKBOX
CR	ACCESS SYSTEM CARD READER COMPLETE WITH DOUBLE-GANG BACKBOX
IS	INTERCOM SYSTEM STATION FULLY RECESSED IN WALL, COMPLETE WITH DOUBLE-GANG BACKBOX
	MISCELLANEOUS EQUIPMENT
CS	AREA OF REFUGE SYSTEM AUDIO STATION. FULLY RECESSED IN WALL, COMPLETE WITH DOUBLE-GANG BACKBOX
AOR	AREA OF REFUGE SYSTEM ILLUMINATED SIGN (IAC COMPLIANT). SEMI RECESSED IN WALL
RGA	REMOTE GENERATOR ANNUNCIATOR (CITY OF CHICAGO COMPLIANT) FULLY RECESSED IN WALL
PP	HANDICAPP DOOR ACCESS PUSHPAD COMPLETE WITH DOUBLE-GANG BACKBOX
MD	120VAC HANDICAPP DOOR ACCESS MOTORIZED DOOR ACTUATOR/CONTROLLER
ARC	AREA OF RESCUE MASTER STATION

NOTES:- ALL OUTLET HEIGHTS AND EXACT LOCATION MUST BE VERIFIED WITH ARCHITECT PRIOR TO WORK BEING DONE.

ROBERT N. RAFSON
062-049931

ISSUES AND REVISIONS :

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BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE:
10/11/2022

SHEET NUMBER :
E-2.0

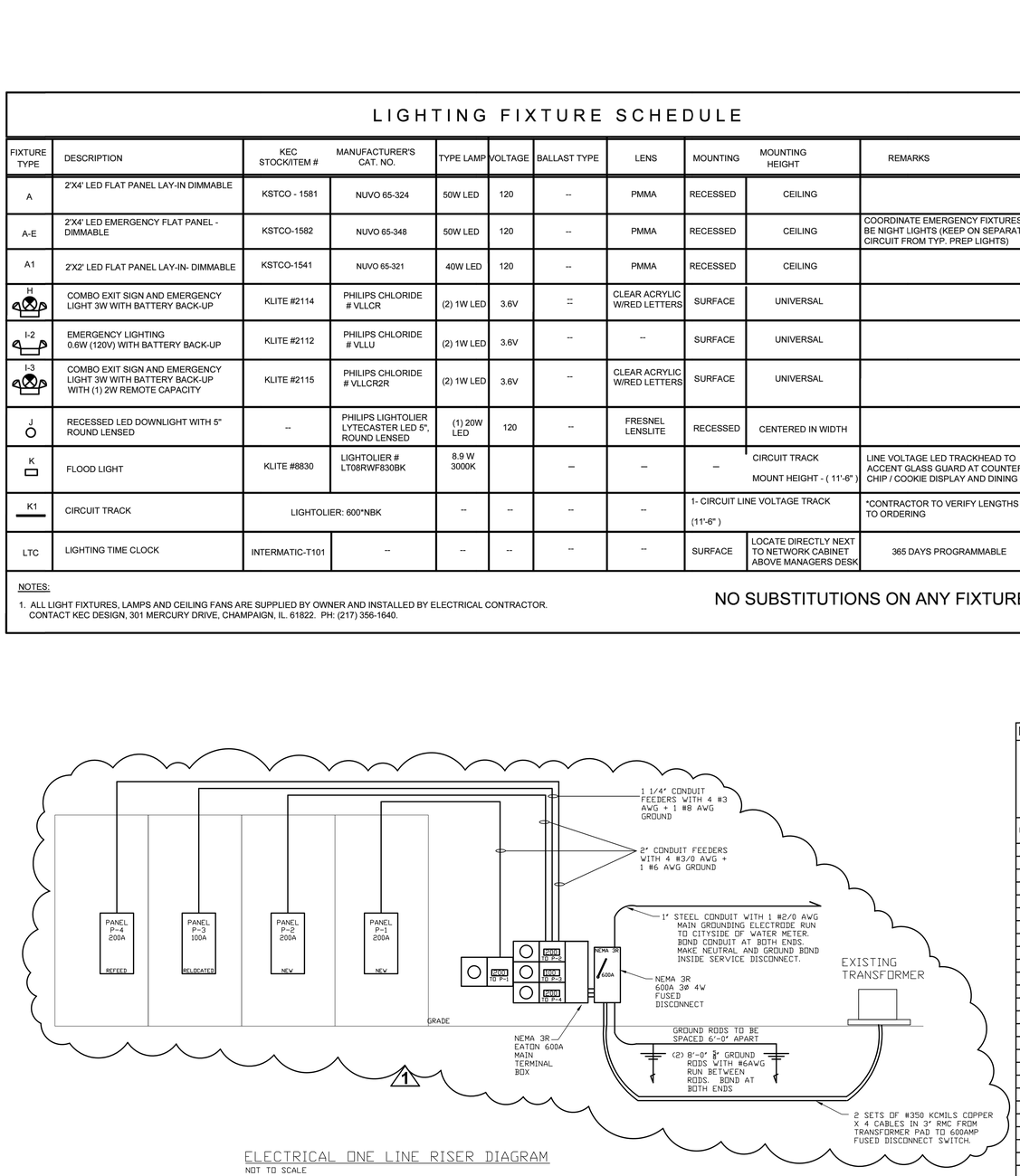
LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	KEC STOCK/ITEM #	MANUFACTURER'S CAT. NO.	TYPE LAMP	VOLTAGE	BALLAST TYPE	LENS	MOUNTING	MOUNTING HEIGHT	REMARKS
A	2'X4' LED FLAT PANEL LAY-IN DIMMABLE	KSTCO - 1581	NUVO 65-324	50W LED	120	--	PMMA	RECESSED	CEILING	
A-E	2'X4' LED EMERGENCY FLAT PANEL - DIMMABLE	KSTCO-1582	NUVO 65-348	50W LED	120	--	PMMA	RECESSED	CEILING	COORDINATE EMERGENCY FIXTURES TO BE NIGHT LIGHTS (KEEP ON SEPARATE CIRCUIT FROM TYP. PREP LIGHTS)
A1	2'X2' LED FLAT PANEL LAY-IN- DIMMABLE	KSTCO-1541	NUVO 65-321	40W LED	120	--	PMMA	RECESSED	CEILING	
H	COMBO EXIT SIGN AND EMERGENCY LIGHT 3W WITH BATTERY BACK-UP	KLITE #2114	PHILIPS CHLORIDE # VLLCR	(2) 1W LED	3.6V	--	CLEAR ACRYLIC W/RED LETTERS	SURFACE	UNIVERSAL	
I-2	EMERGENCY LIGHTING 0.6W (120V) WITH BATTERY BACK-UP	KLITE #2112	PHILIPS CHLORIDE # VLLU	(2) 1W LED	3.6V	--	--	SURFACE	UNIVERSAL	
I-3	COMBO EXIT SIGN AND EMERGENCY LIGHT 3W WITH BATTERY BACK-UP WITH (1) 2W REMOTE CAPACITY	KLITE #2115	PHILIPS CHLORIDE # VLLCR2R	(2) 1W LED	3.6V	--	CLEAR ACRYLIC W/RED LETTERS	SURFACE	UNIVERSAL	
J	RECESSED LED DOWNLIGHT WITH 5" ROUND LENSED	--	PHILIPS LIGHTOLIER LYTECASTER LED 5", ROUND LENSED	(1) 20W LED	120	--	FRESNEL LENSLITE	RECESSED	CENTERED IN WIDTH	
K	FLOOD LIGHT	KLITE #8830	LIGHTOLIER # LT08RWF830BK	8.9 W 3000K		--	--	--	CIRCUIT TRACK MOUNT HEIGHT - (11'-6")	LINE VOLTAGE LED TRACKHEAD TO ACCENT GLASS GUARD AT COUNTER AND CHIP / COOKIE DISPLAY AND DINING AREA
K1	CIRCUIT TRACK	LIGHTOLIER: 600*NBK		--	--	--	--	1- CIRCUIT LINE VOLTAGE TRACK (11'-6")		*CONTRACTOR TO VERIFY LENGTHS PRIOR TO ORDERING
LTC	LIGHTING TIME CLOCK	INTERMATIC-T101	--	--	--	--	--	SURFACE	LOCATE DIRECTLY NEXT TO NETWORK CABINET ABOVE MANAGERS DESK	365 DAYS PROGRAMMABLE

NOTES:

1. ALL LIGHT FIXTURES, LAMPS AND CEILING FANS ARE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTACT KEC DESIGN, 301 MERCURY DRIVE, CHAMPAIGN, IL. 61822. PH: (217) 356-1640.

NO SUBSTITUTIONS ON ANY FIXTURES.



ELECTRICAL ONE LINE RISER DIAGRAM

NOT TO SCALE

PROVIDE FOR OVERHEAD SERVICE

NEW MAIN DISTRIBUTION PANEL 208/120V "P-2"

LOCATION: ELECTRICAL ROOM
SERVICE: 208/120V-3PH-4W 208 V
MAIN CIRCUIT BREAKER: 200A MCB
MAIN BUS RATING AND TYPE: 200A COPPER
INTERRUPT RATING: 42,000 AIC
NEUTRAL BUS: STANDARD, COPPER
GROUND BUS: STANDARD, COPPER
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

	DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA) A	B	C	CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.		DESCRIPTION
R	PREP TABLE (13)	1	20A-1P	1600	1900			300	20A-1P	2	R	FZR / LTS / EVAP (28B)
R	POS (3)	3	20A-1P	500		680		180	20A-1P	4	R	ROOF TOP RECEPT GFI
R	RECEPTACLES*	5	20A-1P	400			1600	1200	20A-1P	6	R	SECURITY*
L	PREP LIGHTING	7	20A-1P	1000	2000			1000	20A-1P	8	R	DRINK DISPENER (8)
M	EXHAUST FAN EF-1	9	20A-1P	1600		1800		200	20A-1P	10	L	RESTROOM LIGHTING
R	SLICER (27)	11	20A-1P	700			1900	1200	20A-1P	12	L	NEON
R	RECEPTACLES* SLICER TABLE	13	20A-1P	1900	2900			1000	20A-1P	14	R	CARBONATOR (16D)
R	IDW WATER COOLER (9)	15	20A-1P	1800		2400		600	20A-1P	16	R	REFRIGERATOR (22)
R	OVER PROOFER (15A)	17	50A-3P	3500			3500		20A-1P	18		SPARE
R	FRD: 4#8+1#8GRD.1 "C	19		3500	4600			1100	15A-2P	20	R	FREEZER EVP (23)
R	PROVIDE NF SAFETY DISC SWITCH	21		3500		3500				22		SPARE
R	WALK-IN FREEZER (23)	23	20A-2P	1900			2500	600	20A-1P	24	L	NEON
R	SPARE	25	20A-1P	1900	3300			1400	20A-1P	26	R	OVERHEAD ICE MACHINE
R	PREP TABLE (13)	27	20A-1P	1600		2000		400	20A-1P	28	L	DINING LIGHTING
R	ICE MAKER (17)	29	20A-1P	1300			1300		20A-1P	30		SPARE
	SPARE	31	20A-1P		800			800	20A-1P	32	R	REC OFFICE
M	**RTU-1** (3 POLE)	33	60A-3P	7000		8200		1200	20A-1P	34	R	EXTERIOR SIGN
M	FRD: 4#6+1#8GRD.1 "C	35		7000			7200	200	20A-1P	36	R	WATER HEATER
M	PROVIDE NF SAFETY DISC SWITCH	37		7000	7200			200	20A-1P	38	R	WATER HEATER
	SPARE	39	20A-1P			0			20A-1P	40		SPARE
	SPARE	41	20A-1P				0		20A-1P	42		SPARE
	SPARE	43	20A-1P		0				20A-1P	44		SPARE
R	COOLER EVAP (23A)	45	20A-1P	1200		1200			20A-1P	46		SPARE
	SPARE	47	20A-1P				0		20A-1P	48		SPARE
R	PRINTER	49	20A-1P	500	500				20A-1P	50		SPARE
R	CO2 SENSOR	51	20A-1P	180		180			20A-1P	52		SPARE
R	EXTERIOR SIGN	53	20A-1P	1200			1200		20A-1P	54		SPARE
R	NETORK CABINET	55	20A-1P	500	500				20A-1P	56		SPARE
L	LIGHTING*	57	20A-1P	1000		1000			20A-1P	58		SPARE
R	FIRE ALARM*	59	20A-1P	200			200		20A-1P	60		SPARE
					23700	20960	19400					

TOTAL VA PER PHASE

	CONNECTED LOAD		DEMAND FACTOR	DEMAND LOAD
L	LIGHTING	4.40 KVA	0.80	3.52 KVA
R	RECEPTACLES	37.06 KVA	0.80	29.65 KVA
M	MOTOR / EQUIP.	22.60 KVA	1.00	22.60 KVA
H	ELECTRIC HEAT	0.00 KVA	1.00	0.00 KVA
	TOTAL CONNECTED LOAD:	64.06 KVA	TOTAL DEMAND LOAD:	55.8 KVA
			TOTAL DEMAND CURRENT:	154.80 AMPS

*TYPICAL15 OR 20 AMP FDR = 3#12&1#12EGC 3/4"C

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NAPERVILLE, IL. 60563

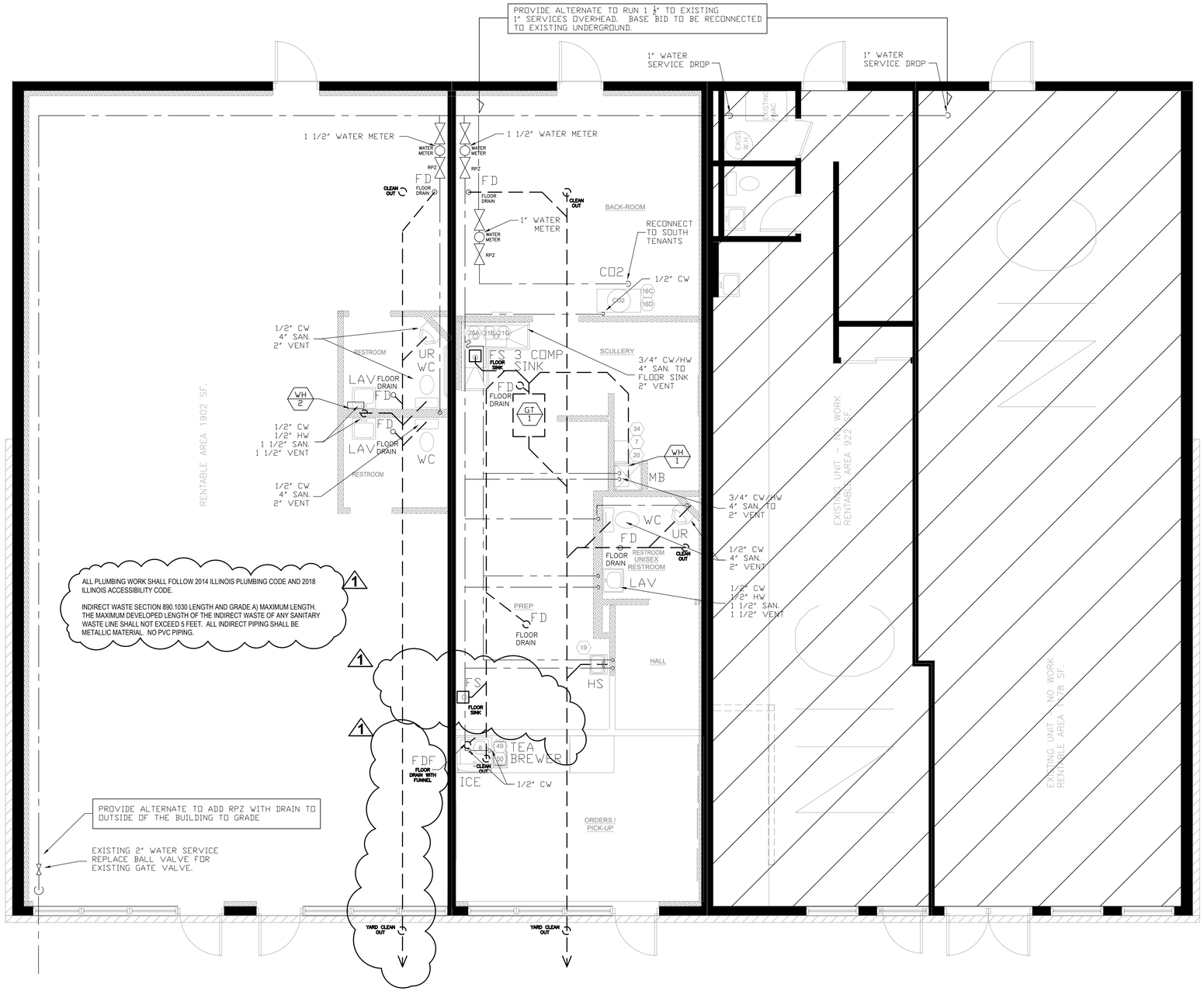
BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
OAKBROOK TERRACE IL 60181
PHONE: 708-508-7281

DRAFTPERSON: BG
APPROVED : BG
PREPARED FOR : JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE: 10/11/2022

ROBERT N. RAPSON 062-049931 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

SHEET NUMBER :

E-2.1



A PLUMBING FLOOR PLAN
1/4" = 1'-0"

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062-049931
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS

SHEET NUMBER :
P-1.0

GENERAL GAS PIPING NOTES:

1. FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTERNATIONAL FUEL GAS CODE(IFGC), CHAPTER 4 (WITH MODIFICATIONS AS NOTED IN ARTICLE 14). [18-28-1400]
2. GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABLES 402.(1) THROUGH 402.3(34). [IFGC 402.3]
3. THE MAXIMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL NOT EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [IFGC 402.5]
4. GAS PIPING MATERIALS MUST CONFORM TO THE GAS PIPING & TUBING MATERIAL MATRIX (LFGC 403 REQUIREMENTS). [IFGC 403]
5. PIPING IN CONCEALED LOCATIONS MUST CONFORM TO THIS IFGC 404.3. [IFGC 404.3]
6. MINIMUM REQUIRED BURIAL DEPTH FOR UNDERGROUND PIPING SYSTEMS MUST CONFORM TO IFGC 404.9. (MINIMUM 12 INCHES BELOW GRADE). [IFGC 404.9]
7. GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]

GENERAL PLUMBING NOTES:

ALL THE FOLLOWING NOTES APPLIES TO ALL PLUMBING DRAWINGS.

1. EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
2. PROVIDE BACK FLOW PREVENTORS AND TEST IN ALL LOCATIONS REQUIRED BY CODE
3. PROVIDE MAXIMUM HEADROOM IN ALL PIPED LOCATIONS
4. PROVIDE ISOLATION VALVES FOR COLD, HOT, AND HOT WATER RETURN SYSTEMS AT EACH FIXTURE, FIXTURE GROUP AND SYSTEM COMPONENTS TO ALLOW FOR PROPER MAINTENANCE.
5. INSTALL EQUIPMENT PER MANUFACTURES INSTRUCTIONS AND ALL APPLICABLE CODES. PROVIDE PANS AND DRAIN LINES.
6. INSULATE ALL PIPES RACKED TO OUTSIDE WALLS SUBJECT TO FREEZING.
7. PROVIDE ALL PROPER BUILDING PENETRATIONS TO MEET ALL MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES
8. INSULATE ALL HOT & COLD WATER LINES.

PLUMBING FIXTURE SCHEDULE

NOTE: THERE WILL BE ABSOLUTELY NO SUBSTITUTIONS ALLOWED FOR ANY PLUMBING PRODUCTS AS SPECIFIED. THIS INCLUDES ALL ZURN PRODUCTS.

MARK	ITEM	MANUFACTURER – MODEL NO	UTILITIES				TEMP	REMARKS
			CW	HW	W	VT		
16D	CARBONATOR	COCA-COLA	1/2"	–	–	–	–	–
17	ICE MAKER	HOSHIZAKI – F-1002MWJ-C	(2) 1/2"	–	–	–	–	WATER COOLED ICE MAKER. PROVIDE W/ HOSHIZAKI B-300PF BIN – SEE 3/P2
19	HAND SINK	UNIVERSAL STAINLESS – EHS-1	1/2"	1/2"	1-1/2"	1-1/2"	110°F	SEE NOTE 2 FOR THERMOSTATIC MIXING VALVES REQUIREMENTS
	FAUCET	UNIVERSAL STAINLESS – CHF-04	–	–	–	–	–	GOOSENECK FAUCET
20	MOP BASIN	ZURN – Z1996-24	3/4"	3/4"	3"	2"	140°F	
	FAUCET	ZURN – Z1996-SF	–	–	–	–	–	WALL-MOUNT WITH 1/2" IPS FLANGED FEMALE INLET, VACUUM BREAKER SPOUT, PAIL HOOKS, 3/4" HOSE THREAD, LEVER HANDLES AND ROUGH CHROME FINISH. PROVIDE HOSE BIB AND GREASE TRAP – SEE 1/P2. FAUCET MUST BE INSTALLED AT 3'-0" A.F.F. AND CENTERED ON MOP SINK.
21	3 COMPARTMENT SINK W/ (2) 18" DRAIN BOARDS	JOHN BOOS 3PB1618-2D18	1/2"	1/2"	INTO FS	–	140°F	
	FAUCET	ZURN – Z842H 1.0002	–	–	–	–	–	
34	WATER FILTER	3M – BREW125-MS	1/2"	–	–	–	–	SEE DETAIL 10/P2
49	ICE TEA BREWER	BUNN-O-MATIC – TB6Q-0301	1/2"	–	–	–	–	TEE OFF ICE/BEVERATE UNIT WATER SUPPLY WITH SHUT-OFF VALVE
WC/1	HANDICAP – FLOOR MOUNTED – WATER CLOSET	ZURN – Z5560	1/2"	–	4"	2"	–	FURNISH WITH ZURN OPEN FRONT SEAT. MODEL: Z5955SS STOP VALVE, 1/2" WATER SUPPLY LINE AT 12" A.F.F.
LAV/1	HANDICAP – WALL HUNG – LAVATORY	ZURN – Z5354 OR EQUAL	1/2"	1/2"	2-1/2"	1-1/2"	110°F	FURNISH W/ ZURN FAUCET. MODEL: Z812B1 WITH VANDAL RESISTANT AERATOR AND GRID DRAIN. PROVIDE TRU-BRO LAV GAURD. SEE NOTE 2 FOR THERMOSTATIC MIXING VALVE REQUIREMENTS.
REMARKS: 1. QUANTITIES NOTED ON THIS LIST SHALL NOT BE USED FOR BIDS OR PURCHASING AND SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY.								

TAG	FIXTURE	MFR. / MODEL No.	DESCRIPTION	REMARKS
GT	GREASE TRAP	SCHIER GB-50	INFLOOR GREASE TRAP INTERCEPTOR, 50GPM 4" INLET/OUTLET H-20 RATED CAST IRON COVER	SEE MFR. SPECIFICATIONS PRIOR TO ROUGH-IN
MB	MOB SINK	ZURN 24x24 Z1996-24-AW	FLOOR MOUNTED, PROVIDE WALL MOUNTED FAUCET WITH PAIL HOOK AND VACUUM BREAKER 7'-0" AFF, PROVIDE VANDAL RESISTANT QUARTER TURN SUPPLY STOP	SEE MFR. SPECIFICATIONS PRIOR TO ROUGH-IN
UR	URINAL	AMERICAN STANDARD WASHBROOK 6590.00	WALL MOUNTED, TOP SPUD, TO BE WHITE IN COLOR. PROVIDE SLOAN FLUSHOMETER PROVIDE VANDAL RESISTANT QUARTER TURN SUPPLY STOP	SEE MFR. SPECIFICATIONS PRIOR TO ROUGH-IN
FD	FLOOR DRAIN	SIOUX CHIEF #832-4DHNQ	4" SQUARE FLOOR DRAIN	SEE MFR. SPECIFICATIONS PRIOR TO ROUGH-IN
FS	FLOOR SINK	CANPLAS 4" 12X12 #394713	4" FLOOR SINK	SEE MFR. SPECIFICATIONS PRIOR TO ROUGH-IN
FDF	FLOOR DRAIN WITH FUNNEL	SIOUX CHIEF #832-4DHNQ-863-FN	4" SQUARE FLOOR DRAIN WITH FUNNEL	SEE MFR. SPECIFICATIONS PRIOR TO ROUGH-IN

EXPANSION TANK SCHEDULE

TAG	LOCATION	MFR. / MODEL No.	MAX. OPER. PRESS. (PSIG)	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	DIA. (IN.)	HEIGHT (IN.)	REMARKS
EXP-1	ABOVE MOB BASIN	B&G "PT" SERIES	150	5	2.5	12	12"	SEE MFR. SPEC. SHEET PRIOR TO INSTALL.

GAS WATER HEATER SCHEDULE

TAG	MFR. / MODEL No.	CAPACITY (GAL.)	ELECTRICAL		DIA.	HIEGHT	REMARKS
			VOLTAGE/ PHASE	MBH			
WH-1	RHEEM RTGH-95DVELN-2	INSTANT GAS	120/1	199	20"	60"	VERIFY LOCATION OVER MOP SINK DIMENSIONS INSTALL PER MFR. SPECIFICATIONS SEALED COMBUSTION (2) 3" FLUES

ELECTRIC INSTANT WATER HEATER SCHEDULE

TAG	MFR. / MODEL No.	CAPACITY (GAL.)	ELECTRICAL		HXWXD	REMARKS
			VOLTAGE/ PHASE	KW		
WH-2	RHEEM RTEX-06	INSTANT ELECTRIC	120/1	6KW	6"X10"X3"	INSTALL PER MANUFACTURERS INSTRUCTIONS.

HOSE BIBB SCHEDULE

TAG	MFR. / MODEL No.	FIXTURE	DESCRIPTION	REMARKS
FPHB	ZURN ECOLOTROL MODEL 1300-15	NON-FREEZE WALL HYDRANT	ENCASED ANTI-SIPHON AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION w/INTEGRAL BACKFLOW PREVENTOR, BRONZE CASING. NICKEL BRONZE BOX w/HINGED COVER AND OPERATING KEY LOCK.	SEE MFR. SPEC SHEET PRIOR TO INSTALL.
HB	JR SMITH MODEL 5609QT	HOSE BIBB	QUARTER TURN NON-FREEZE HYDRANT, WITH 3/4" HOSE CONNECTION, BACKER PLATE AND INTEGRAL VACUUM BREAKER WITH VANDAL RESISTANT CAP AND "T" HANDLE. SPECIFY CHROME PLATED.	SEE MFR. SPEC SHEET PRIOR TO INSTALL.

ROBERT N. RAPSON
062-049931
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS

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TENANT SUB-DIVIDE / JIMMY JOHN'S
1012 N. WASHINGTON STREET
NAPERVILLE, IL. 60563

BR DESIGN & ARCHITECTURE
ONE TRANS AM PLAZA DRIVE SUITE #120
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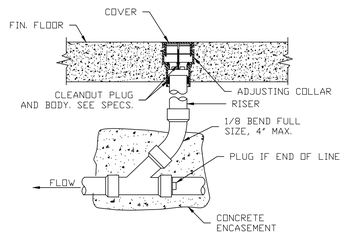
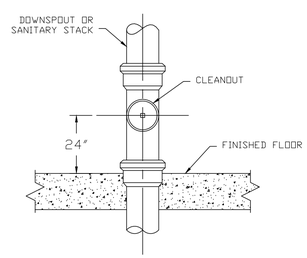
PHONE: 708-508-7281

DRAFTPERSON:
BG
APPROVED :
BG
PREPARED FOR :
JS Fort Group, Inc.
LOCATION :
JOB NUMBER :
DATE:
10/11/2022

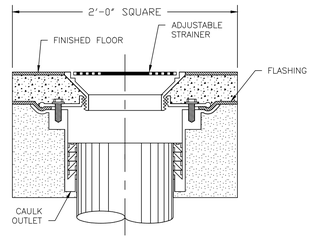
SHEET NUMBER :
P-2.0



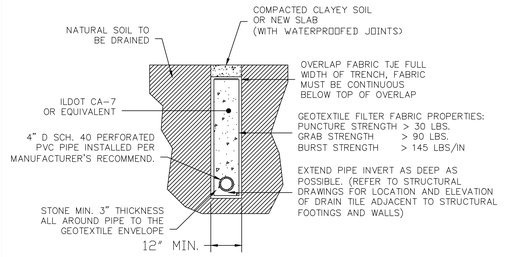
FLOOR CLEANOUT



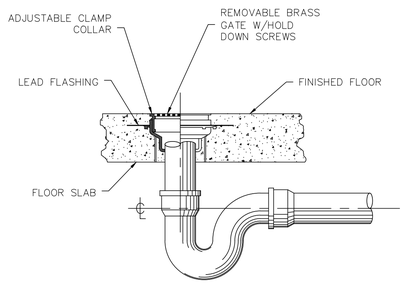
ELEVATION OF STACK CLEANOUT



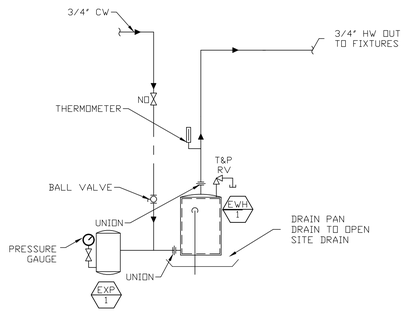
FLOOR DRAIN DETAIL FOR LAUNDRY ROOMS



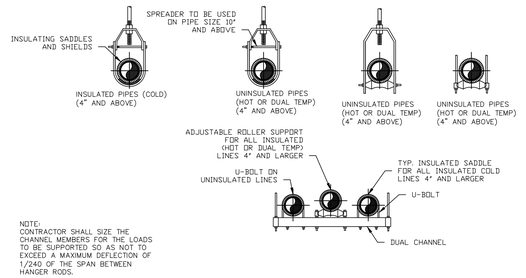
SUB-SOIL DRAIN TILE DETAIL



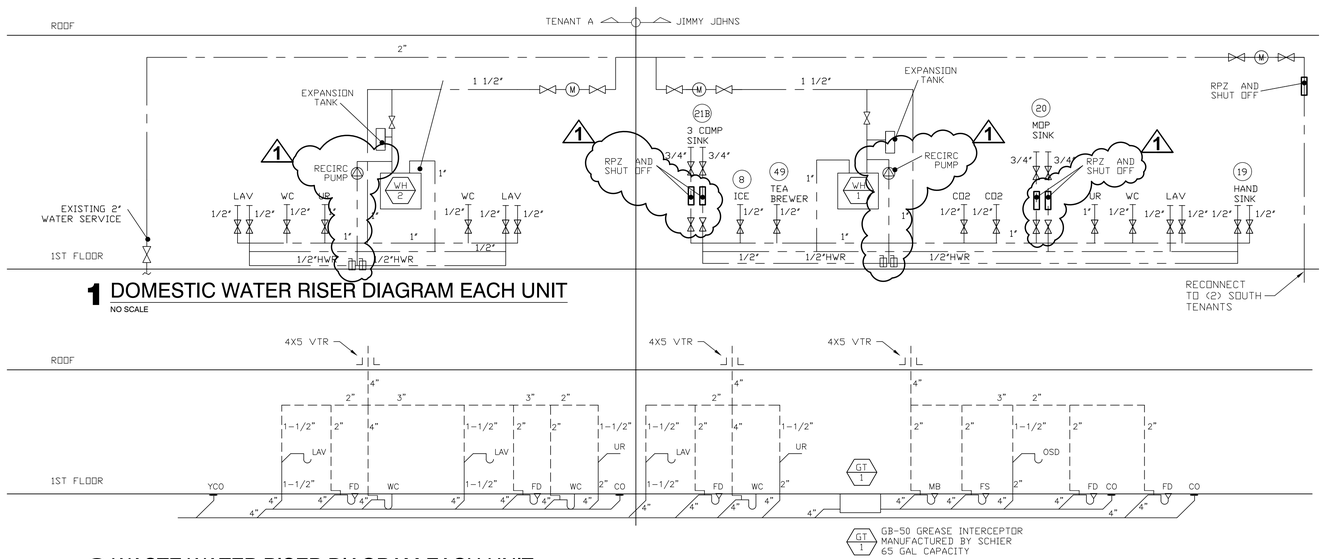
FLOOR DRAIN DETAIL



HOT WATER HEATER



PIPE SUPPORT AND HANGER DETAIL



1 DOMESTIC WATER RISER DIAGRAM EACH UNIT
NO SCALE

2 WASTE WATER RISER DIAGRAM EACH UNIT
NO SCALE

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