



City of Willowick
PLAN REVIEW BOARD
Thursday, October 09, 2025 at 3:00 PM
Willowick Building & Service Center

ADA NOTICE

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify the City of Willowick at 440-585-3700 at least three working days before the meeting.

AGENDA

1. **Call meeting to order**
2. **Roll call**
3. **Approval of minutes**
 1. Plan Review Board Minutes - September 25th, 2025
4. **New business**
 1. The Original Steaks and Hoagies - Located at 210 E. 305th Street
 2. Kurtz Bros Inc - Located at 32800 Lakeland (New Mobile Office)
5. **Public portion**
6. **Old business**
7. **Miscellaneous**
8. **Adjournment**



City of Willowick
PLAN REVIEW BOARD

Thursday, September 25, 2025 at 3:00 PM
 Willowick Building & Service Center

ADA NOTICE

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify the City of Willowick at 440-585-3700 at least three working days before the meeting.

MINUTES

1. Call meeting to order

Chairman Brennan called the September 25th, 2025, Plan Review Board meeting to order at 3:00pm.

Roll call

PRESENT

Chairman Brennan
 Chief Daubenmire
 Mr. Lazor

ALSO PRESENT

Mr. Pintar

ABSENT

Chief Malovrh Jr.
 Mr. McLaughlin

Approval of minutes

Plan Review Board Minutes - September 11th, 2025

Motion made to approve the September 11th, 2025, Plan Review Board meeting minutes with the revision of the address listed for Vince's Main Event Center from 28898 Lakeshore Blvd. to 28900 Lakeshore Blvd. by Mr. Lazor, Seconded by Chairman Brennan.

Voting Yea: Chairman Brennan, Chief Daubenmire, Mr. Lazor

New business

Raw Smoke Shop - Located at 32801 Vine Street

Mr. Patel and his father were present representing Raw Smoke Shop - Located at 32801 Vine Street. Chairman Brennan asked what the previous use of this location was as all units in this building have the same address. Mr. Patel advised that this is the first unit in the building. Chairman Brennan referenced the site plan asking if there will be any alterations being done inside the unit, Mr. Patel stated there will not be any alterations, just adding display cases. Chairman Brennan advised the board that the proposed

hours of operation are within compliance, he asked what is being sold at this smoke shop, Mr. Patel stated smoking products (e-cigarettes and products) and convenient store items (such as snacks). Mr. Lazor asked if they will be selling beer and wine, Mr. Patel advised they will be selling those items in the future if the smoke shop does not work out, they will want to transition to a convenient store. Chairman Brennan advised that if they do go the route of beer and wine, they would have to get approval from the state and get approval from the City. There was some discussion regarding one of their other stores. Chairman Brennan advised that he will give them a call on Monday to schedule a walk through of the establishment. Mr. Patel asked about the state laws regarding liquor stores, Chairman Brennan advised they would need to contact the state for specifics regarding liquor license.

Motion made to approve Raw Smoke Shop - Located at 32801 Vine Street by Lazor, Seconded by Chairman Brennan.

Voting Yea: Chairman Brennan, Chief Daubenmire, Mr. Lazor

Paix Loc Studio - Located at 32801 Vine Street

Sarah Daniel-Foster of Hunting Valley was present representing Paix Loc Studio - Located at 32801 Vine Street. Chairman Brennan advised the board that this location was previously a hair salon, it is right beside Ronnie's. Chairman Brennan asked as far as licensing with the Ohio Board, she stated that she has a boutique license and she is testing for her hair license next month. Chairman asked about the boutique license, if she is going to be able to use that for a salon. She stated that she can use her boutique license she just can't use any hair chemicals so she will not have them in the salon. She stated that she does natural hair and does not use hair chemicals. Chairman Brennan advised the board that this is a permitted use in this district and it was previously a salon. He asked if she will be doing any alterations in the unit, Ms. Daniel -Foster stated that she will not be doing any alterations, everything will remain the same. Mr. Lazor asked the significance of the business name, Ms. Daniel-Foster stated that Paix mean peace. Chairman Brennan let Ms. Daniel-Foster know that he will give her a call Monday to set up a walk through and discuss signage.

Motion made to approve Paix Loc Studio - Located at 32801 Vine Street (unit 3B) by Mr. Lazor, Seconded by Chairman Brennan.

Voting Yea: Chairman Brennan, Chief Daubenmire, Mr. Lazor

Public portion

Public portion was open and closed at 3:15pm with no public present.

Old business

None.

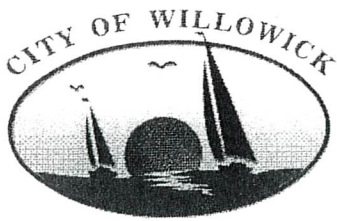
Miscellaneous

None.

Adjournment

Motion made to adjourn the September 26th, 2025, Plan Review Board meeting at 3:26pm by Mr. Lazor, Seconded by Chairman Brennan.

Voting Yea: Chairman Brennan, Chief Daubenmire, Mr. Lazor



CITY OF WILLOWICK PLAN REVIEW BOARD
APPLICATION FOR PERMIT TO OCCUPY FOR
BUSINESS, COMMERCIAL, INDUSTRIAL, ETC.
YOU MUST FILL OUT ENTIRE APPLICATION
440-516-3000

Item #1.

PERMIT FEE: \$60.00

DATE: 9-28-25

Location of Occupancy: 210 E 305 Street Business Name: The Original Steaks and Hoagies
(ADDRESS)

Business Owner's Name & Address: 61 Garnett Circle Copley Oh.

CITY/STATE/ZIP: Copley Oh. 44321

Telephone Number: 440-497-8829 Fax Number: _____ Federal ID Number: 82-3688169
Or Social Security Number

OWNER OF PROPERTY/NAME/ADDRESS/TELEPHONE NUMBER: Bhavesh Patel (Bobby Patel)
440-339-4949 7500 Button Rd. Concord OH

SUBMIT NEW DETAILED FLOOR PLAN: ☒ SQ. FT. HABITABLE FLOOR AREA FOR OCCUPANCY: _____

Building Size: 1950 Total Number Of Employees: 6-8

Intended Number of Occupants: 32 Total Number of Seating: 32

Site Plan With Number of Paved Parking Spaces: 16 Hours Of Operation: 10:30-9pm

Letter of Intent: 0 Previous Use: Bank Proposed Use: Restaurant

NAME OF PRINCIPAL OR CONTACT PERSON FOR NEW BUSINESS: Jeff Wiseman

Home Address/City/Zip: 61 Garnett Circle Copley Oh. 44321 Telephone Number: 440-497-8829

I hereby certify that the above questions have been answered correctly by me and that the premises will be used for the purpose stated above. Any change in the purpose of occupancy will not be made without approval from Lake County Building, Willowick Fire & Willowick Zoning Department. A final approval by The Willowick Building Dept. (440)516-3000 or a representative thereof, must be complied with before opening of business. I do hereby further agree to maintain the above premises in compliance with the ordinances of the City of Willowick.

Applicant's Signature: [Signature] Date: 9-28-25

Office use only:

Zoning District: _____ Authorized Occupants: _____

TEMPORARY APPROVED BY: _____ Date: _____

Zoning Dept. Inspected by: _____ DATE: _____

Zoning Permit # _____ Zoning Permit Fee \$ _____

Fire Dept. Inspected By: _____ Date: _____

CITY OF WILLOWICK-APPLICATION FOR COMMERCIAL ESTABLISHMENT LICENSE REQUIRED AFTER APPROVAL.

Note* A separate permit is required for all new signs from the Willowick Building Department.

Page 4

Letter of intent

Item #1.

I Jeff Wiseman the owner of The Original Steaks and Hoagies would like to bring our Authentic Cheesesteak Restaurant to Willowick. We have 23 locations now and specialize in all types of fresh sandwiches.

This location requested is located at 210 E 305 street and was a PNC Bank. We will turn it into an excellent destination in the community. We will be hiring locally and really clean up that corner.

Thank you
Jeff Wiseman
440-497-8829

M-1	MECHANICAL PLAN
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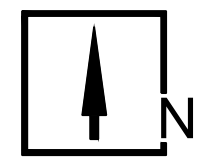
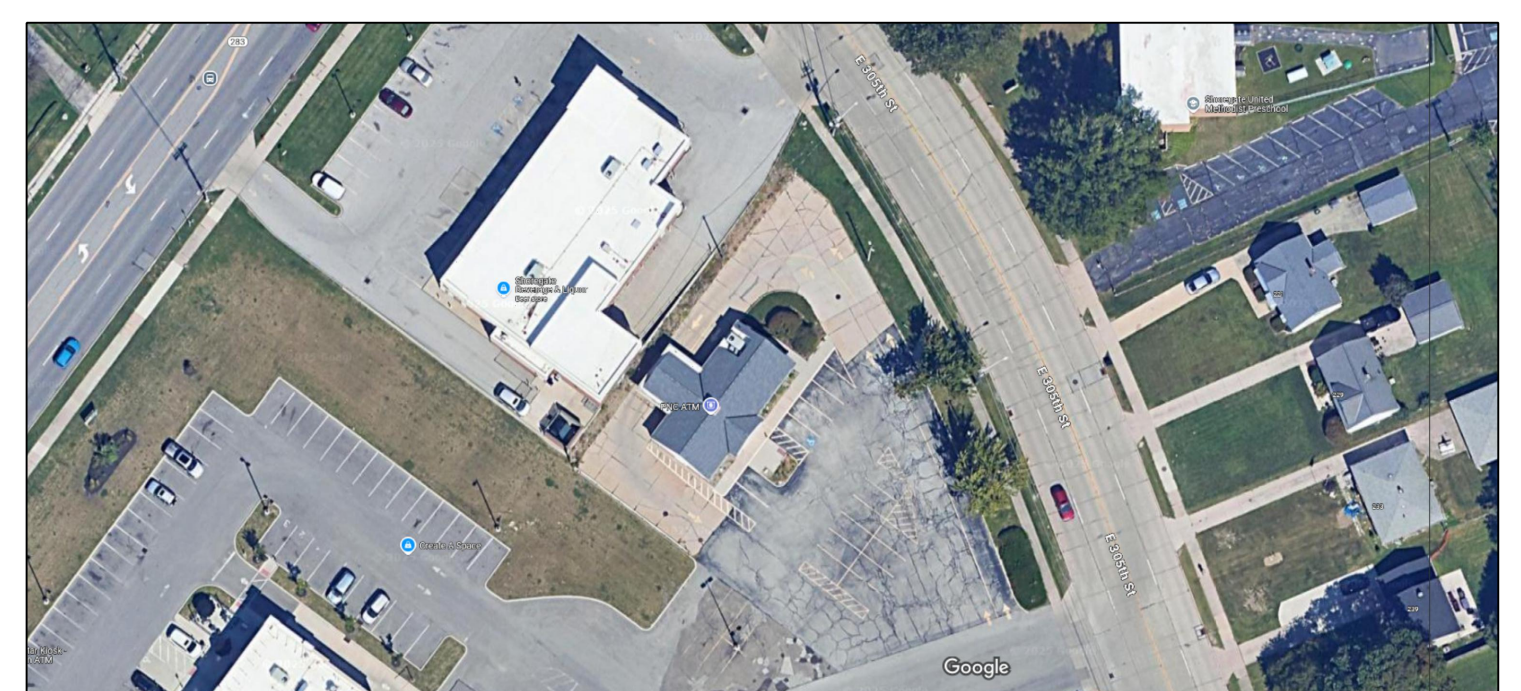
Diagram illustrating the proposed tenant space (1,950 GSF) and existing parking and signage at the intersection of Lakeshore Boulevard, Bayridge Boulevard, and East 30th Street.

Key features labeled on the diagram include:

- PROPOSED TENANT SPACE 1,950 GSF
- EXISTING ACCESSIBLE PARKING AND SIGNAGE
- EXISTING PARKING
- LAKESHORE BOULEVARD
- BAYRIDGE BOULEVARD
- EAST 30TH STREET

fabo
architecture

c o d e d a t a



No. REF. ELEVATION NUMBER
No. REF. SHEET NUMBER

No. REF. No. REF. No. REF. No. REF.

No. REF.

ROOM NUMBER



10

1. ALL TRADE AND SUBTRADES SHALL BE REGISTERED WITH THE CITY, COUNTY, STATE AND AUTHORITIES AS REQUIRED.
2. THE G.C. SHALL INCLUDE THE COST OF ALL PERMITS AND LICENSES IN THE CONTRACT, INCLUDING BUILDING PERMIT. THE SUBCONTRACTORS SHALL INCLUDE ALL PERMIT AND LICENSE COSTS AS REQUIRED BY THEIR TRADE IN THEIR PROPOSALS TO THE OWNER G.C. PERMITS AND FEES TO INCLUDE CONNECTING OF ALL EQUIPMENT, FIXTURES, SERVICES AND UTILITIES AS REQUIRED.
3. ALL TRADES SHALL CONFORM WITH ALL APPLICABLE FEDERAL, STATE, MUNICIPAL, PROJECT MALL DEVELOPER AND/OR BUILDING OWNER, AND O.S.H.A. CODES, RULES AND REGULATIONS.
4. THE "GENERAL CONDITIONS" OF THE CONTRACT FOR CONSTRUCTION DOCUMENTS No.1 ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS CURRENT EDITION RELATED TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE DRAWINGS AS THOUGH FULLY CONTAINED IN THESE DRAWINGS.
5. THE SPECIFICATIONS ARE COMPILED NOT ONLY TO ESTABLISH A STANDARD, BUT TO INSURE THE G.C. MAINTAINS A QUALITY IN THE PERFORMANCE AND FINISH OF THE WORK RECOMMENDED AND ACCEPTED BY THE OWNER. THE G.C. SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING THEMSELVES WITH THE CONTENT AND SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN TO THE SPECIFICATIONS THROUGHOUT THE SPAN OF THIS CONTRACT BY THE G.C.'S/SUPERVISOR AND SUBCONTRACTORS. AS THE STANDARDS ESTABLISHED HEREIN SHALL BE APPLIED WITH EMPHASIS TO ALL WORK. WORK DECLARED UNACCEPTABLE BY OWNER'S AGENT SHALL BE CORRECTED IN A MANNER AND DEGREE OF QUALITY AS ACCEPTED BY THE OWNER.
6. THE G.C. AND SUBTRADES SHALL VISIT AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AT THE JOB SITE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THOSE INDICATED ON DRAWINGS THE BID PROPOSAL SHALL INCLUDE THESE ADDITIONAL COST ESTIMATES. UPON ACCEPTANCE OF BID PROPOSAL BY OWNER, NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR ANY DISCREPANCIES NOT INCLUDED IN THE ORIGINAL BID PROPOSAL.
7. SPECIAL ATTENTION SHOULD BE GIVEN TO THE DIMENSIONS INDICATED AS "HOLD" DIMENSIONS. THE OWNER'S

REFERENCE IFC 803.4.

49. INTERIOR FINISH MATERIALS SHALL BE APPLIED OR OTHERWISE FASTENED IN SO THAT THEY WILL NOT BECOME READILY DETACHED WHERE SUBJECTED TO 200 DEGREES F. FOR NOT LESS THAN 30 MINUTES. REFERENCE IFC 803.2.

50. THE G.C. SHALL BE RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP AND FOR COMPLIANCE WITH THE DESIGN. THE G.C. SHALL CORRECT ALL ERRORS AND DEVIATIONS AS REQUESTED BY THE OWNER.

51. EACH CONTRACTOR SHALL COORDINATE ARCHITECTURAL DRAWINGS WITH THE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS AND ALL SPECIFICATIONS BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO THE CONTRACTOR PROCEEDING WITH AFFECTED WORK.

52. EXACT LOCATIONS OF PIPING, DUCTWORK, CONDUIT AND FIXTURES SHALL BE COORDINATED BETWEEN CONTRACTORS AND SUBCONTRACTORS TO AVOID INTERFERENCE.

53. BGFA IS NOT RESPONSIBLE FOR VALUE ENGINEERING CHANGES OR SUBSTITUTIONS BY OWNER OR CONTRACTOR THAT NEGATIVELY AFFECT BUILDING PERFORMANCE, CODE REQUIREMENTS, AND/OR INSURANCE REQUIREMENTS.

54. THE ARCHITECT HEREBY STATES, AND THE OWNER ACKNOWLEDGES, THAT THE ARCHITECT HAS NO PROFESSIONAL LIABILITY (ERRORS AND OR OMISSIONS) OR OTHER INSURANCE, AND IS UNABLE TO RESPONSIBLY OBTAIN SUCH INSURANCE. FOR CLAIMS ARISING OUT OF THE PERFORMANCE OR FAILURE TO PERFORM PROFESSIONAL SERVICES, INCLUDING BUT NOT LIMITED TO THE PREPARATION OF REPORTS, DESIGNS, DRAWINGS AND SPECIFICATIONS RELATED TO THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT OR REMOVAL OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS.

55. ACCORDINGLY THE OWNER HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNIFY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS, AND CONSULTANTS IF SUCH CLAIM IN ANY WAY WOULD INVOLVE THE ARCHITECT'S SERVICES FOR THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO ASBESTOS IN THE PROJECT.

56. THE OWNER FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE ARCHITECT AND HIS PRINCIPALS, EMPLOYEES, AGENTS, AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS RELATED CLAIMS THAT MAY BE BROUGHT BY THIRD PARTIES AS A RESULT OF THE SERVICES PROVIDED BY THE ARCHITECT PURSUANT TO THIS AGREEMENT.

57. ALL CORRESPONDENCE FROM THE SUBCONTRACTOR TO THE DESIGN PROFESSIONAL SHALL BE COMMUNICATED THROUGH THE GENERAL CONTRACTOR BY PREDETERMINED WRITTEN OR RFI FORMAT. ANY INFORMATION RECEIVED BY THE DESIGN PROFESSIONAL OUTSIDE OF THIS PREDETERMINED FORMAT WILL NOT BE ADDRESSED.

58. NO PORTION OF THE WORK REQUIRING SUBMISSION OF A SHOP DRAWING, PRODUCT DATA OR SAMPLES SHALL BE COMMENCED UNTIL THE SUBMITTAL HAS BEEN APPROVED BY THE OWNER. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS.

59. PROCEEDING WITH THE INSTALLATION OF FINISHES SHALL BE CONSTRUED THAT THE INSTALLER AND/OR FINISHER HAS INSPECTED AND ACCEPTED THE SUBSTRATE TO RECEIVE THE WORK. NO CHANGE ORDER SHALL BE ISSUED TO RECTIFY CONCEALED, UNKNOWN CONDITIONS OR UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS COMMENCED.

60. CONTRACTOR TO IMMEDIATELY NOTIFY THE ARCHITECT IF A SPECIFIED FINISH BECOMES UNAVAILABLE.

61. MATERIALS, OTHER THAN FOAM PLASTIC, USED AS INTERIOR TRIM SHALL HAVE A MINIMUM CLASS C FLAME SPREAD AND SMOKE DEVELOPED INDEX AND SHALL COMPLY WITH ASTM E 84. COMBUSTIBLE TRIM, EXCLUDING HANDRAILS AND GUARDRAILS, SHALL NOT EXCEED 10% OF THE SPECIFIC WALL OR CEILING AREAS TO WHICH IT IS ATTACHED. REFERENCE IFC 804.

62. INTERIOR FLOOR FINISHES SHALL COMPLY WITH NFPA 253 TESTING MEASURES WITH A CLASSIFICATION OF CLASS 1 CRITICAL RADIANT FLUX IE 0.45 WATTS / CM² AND CLASS 2 CRITICAL RADIANT FLUX IE 0.22 WATTS / CM². IN ALL OCCUPANCIES, NEW INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS IN ENCLOSURES FOR STAIRWAYS AND RAMPS, EXIT PASSAGEWAYS, CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM CORRIDORS BY FULL-HEIGHT PARTITIONS EXTENDING FROM THE FLOOR TO THE UNDERSIDE OF THE CEILING SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX. THE MINIMUM CRITICAL RADIANT FLUX SHALL BE NOT LESS THAN CLASS 1 IN GROUPS 1-1, 1-2 AND 1-3 AND NOT LESS THAN CLASS 11 IN GROUPS A, B, E, H, 1-4, M, R-1, R-2 AND S.

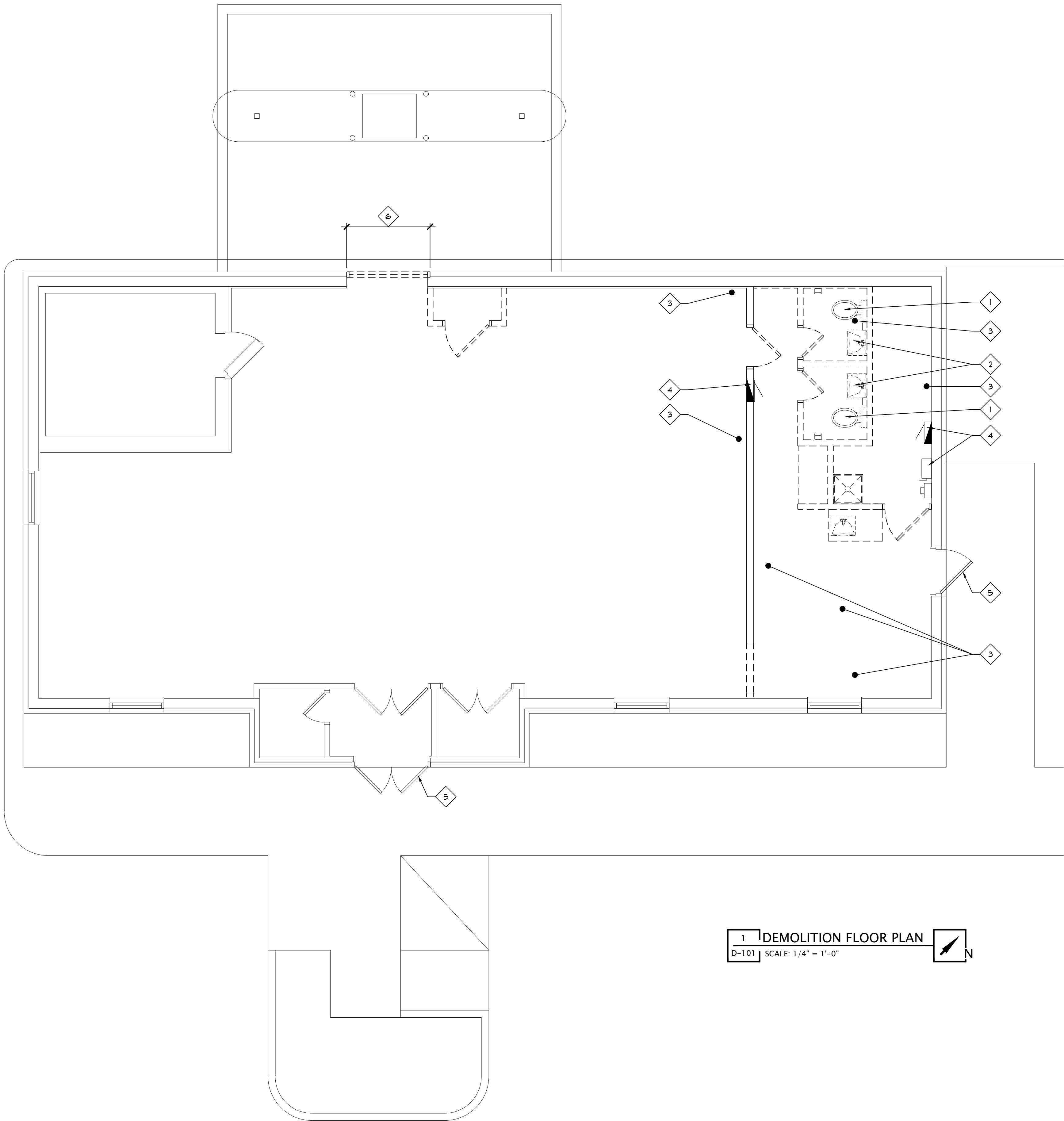
63. FOR SPRINKLERED BUILDINGS, INTERIOR FINISHES OF WALLS AND CEILINGS IN ALL ROOMS OR ENCLOSED SPACES SHALL HAVE A CLASS C FLAME SPREAD INDEX 16-200+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES A-B-E-F-H-M-R-S-11-3 AND CLASS B FOR OCCUPANCIES 1-21-4. INTERIOR FINISHES OF EXIT ENCLOSURES AND CORRIDORS SHALL HAVE A CLASS B FLAME SPREAD INDEX 26-15+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES A-H-1-21-4 AND CLASS C FOR OCCUPANCIES B-E-M-F-R-1-S AND CLASS A FLAME SPREAD INDEX 0-25+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES 1-3. INTERIOR FINISHES OF EXIT STAIRWAYS/RAMPS AND EXIT PASSAGEWAYS SHALL HAVE A CLASS B FLAME SPREAD INDEX 26-15+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES A-B-E-M-H-R-1-R-4-11-21-4 AND CLASS C FOR OCCUPANCIES F-R-2-R-3-S AND CLASS A FOR OCCUPANCIES 1-3. INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH NFPA 286 TESTING MEASURES. REFERENCE IFC TABLE 803.2.

64. FOR NONSPRINKLERED BUILDINGS, INTERIOR FINISHES OF WALLS AND CEILINGS IN ALL ROOMS OR ENCLOSED SPACES SHALL HAVE A CLASS C FLAME SPREAD INDEX 16-200+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES A-3-A-4-A-5-B-E-F-M-R-S, AND A CLASS B FLAME SPREAD INDEX 26-15+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES A-1-A-2-H-1 AND CLASS C FOR OCCUPANCIES F-S. INTERIOR FINISHES OF EXIT ENCLOSURES AND CORRIDORS SHALL HAVE A CLASS B FOR OCCUPANCIES B-E-M-R-1-R-2-R-31-2-R-2-S AND CLASS A FLAME SPREAD INDEX 0-25+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES B-E-M-F-R-1-S. INTERIOR FINISHES OF EXIT STAIRWAYS/RAMPS AND EXIT PASSAGEWAYS SHALL HAVE A CLASS B FLAME SPREAD INDEX 26-15+ SMOKE DEVELOPED INDEX 0-450 FOR OCCUPANCIES F-R-2-S AND CLASS A FOR OCCUPANCIES A-B-E-M-R-1-R-4-H-1, AND CLASS C FOR OCCUPANCIES R-3. INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH NFPA 286 TESTING MEASURES. REFERENCE IFC TABLE 803.2.

BIDDING NOTES
NOT WITHSTANDING ANYTHING TO THE CONTRARY SET FORTH HEREIN, IT IS UNDERSTOOD AND AGREED THAT SOME OF THE NOTES CONTAINED HEREIN MAY NOT PERTAIN TO THE PARTICULAR PROJECT FOR WHICH YOU ARE BIDDING. WHENEVER THERE IS CONFLICT BETWEEN THE NOTES CONTAINED HEREIN AND THE PLANS WHICH HAVE BEEN FURNISHED THE PROVISIONS OF THE PLAN SHALL CONTROL.

material & symbol legend

general notes



1 DEMOLITION FLOOR PLAN
D-101 SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

- COORDINATE EXTENT OF DEMOLITION WITH CONSTRUCTION PLANS.
- THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND MATERIALS REQUIRED FOR THE CONTRACTED WORK PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS TO THE ARCHITECT IN WRITING.
- WHERE EXISTING WALLS ARE INDICATED TO BE REMOVED, REMOVE IN ENTIRETY, INCLUDING BUT NOT LIMITED TO ALL STUDS, ANCHORS, RACKS, BLOCKING, ETC.
- ALL DEMOLITION WORK TO STRICTLY FOLLOW SEQUENCED WORK SCHEDULE GENERATED BY LL/TENANT AND JOB SUPERINTENDENT.
- VERIFY WITH LL/TENANT, PRIOR TO DEMOLITION, ALL REMOVED ITEMS TO BE REUSED, STORED, OR THROWN AWAY. REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS FROM BUILDING SITE. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON PROJECT SITE.
- COORDINATE WITH LL/TENANT ANY ALL NECESSARY SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES PRIOR TO COMMENCEMENT. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES.
- UNLESS OTHERWISE NOTED, ALL EXISTING ITEMS ARE TO REMAIN. DO NOT DISTURB EXISTING STRUCTURE OR ITEMS TO REMAIN. ALL DAMAGED ITEMS WILL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- DO NOT TERMINATE ANY UTILITY SERVICE TO EXISTING BUILDINGS TO REMAIN. COORDINATE ANY SHUT OFF OR TEMPORARY DISRUPTION WITH JOB LL/TENANT.
- LL/TENANT ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS OR STRUCTURES TO BE DEMOLISHED.
- PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION TO ANY ADJACENT CONSTRUCTION AT NO COST TO LL/TENANT.
- DO NOT CLOSE, BLOCK, OR OTHERWISE OBSTRUCT STREETS, WALKS OR OTHER FACILITIES OCCUPIED OR USED BY THE GENERAL PUBLIC.
- COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- ALL WORK, MATERIALS, AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF ALL ORDINANCES AND STATE AND LOCAL BUILDING CODES.
- ELECTRICAL CONTRACTOR TO DISCONNECT POWER TO ALL ITEMS TO BE REMOVED CONTAINING ELECTRICAL LINES.
- REMOVE ALL CONDUITS, JUNCTION BOXES, ETC. THAT PROTRUDE ABOVE FLOOR SURFACE. PATCH ALL OPENINGS AT ABANDONED TRENCHES, CAP ALL FLOOR DRAINS. CLEANOUTS TO REMAIN WITH CAPS TO REMAIN ACCESSIBLE. LEVEL AND PREPARE CONCRETE SLAB FOR NEW FLOOR TILE AS REQUIRED.
- ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPING IN CONCRETE WALLS OR FLOORS SHALL BE DONE USING CORE DRILLING EQUIPMENT.
- WOOD CONSTRUCTION:
ALL WOOD CONTAINED WITHIN WALL STRUCTURE TO BE FIRE RETARDANT TREATED INCLUDING ANY TEMPORARY PARTITIONS.
- ANY EXISTING FLOORING TO BE REMOVED AND FLOOR SURFACE CLEANED, LEVELED AND READY FOR TENANT SPECIFIED FLOORING, SUCH AS CARPET OR LUXURY TILE (LVT) FLOORING (EXCEPT FOR RESTROOM FLOORING. ANY TRENCH OR GRAVEL AREAS TO BE POURED IN PLACE AFTER PLUMBING OF RESTROOM IS COMPLETE. THE FLOOR MUST BE LEVEL, CARPET OR LVT READY CONCRETE WITH NO FLOOR DRAINS.
- ALL FINAL FLOOR PATCHING TO BE BY THE GENERAL CONTRACTOR. SEE DETAIL ON SHEET A-101.

GENERAL PLUMB. DEMO NOTES

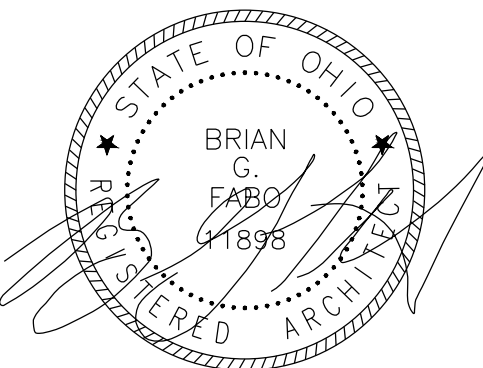
- REMOVE ALL EXISTING PLUMBING COMPLETELY THAT IS NOT TO BE REUSED FOR NEW WORK.
- THE PLUMBING CONTRACTOR SHALL CAP ALL UNUSED SANITARY BRANCH LINES NEAR MAIN WITHIN 2'-0" WHERE POSSIBLE. NO DEAD END RUNS ARE ALLOWED PER CODE.
- REMOVE ANY FLOOR DRAINS THAT ARE NOT USED FOR NEW SPACE LAYOUT. CUT SANITARY LINE TO 3" BELOW FINISHED FLOOR AND PLUG WITH PERMANENT STOPPER.
- THE PLUMBING DEMOLITION WORK SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, THE DISCONNECT, REMOVAL AND DISPOSAL OF THE FOLLOWING PIPING AND ASSOCIATED VALVES, FITTINGS, ACCESSORIES AND SUPPORTS: 1) DOMESTIC COLD WATER, 2) DOMESTIC HOT WATER, 3) SANITARY VENT, 4) SANITARY DRAIN.

KEYED DEMOLITION NOTES:

- EXISTING WATER CLOSET TO BE REMOVED.
- EXISTING SINK TO BE REMOVED.
- PORTION OF EXISTING FLOOR SLAB TO BE REMOVED TO ALLOW FOR TIE-IN TO EXISTING DRAIN LINE FOR NEW PLUMBING FIXTURES. SEE SHEET A-1 AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING ELECTRICAL PANEL AND EQUIPMENT TO REMAIN. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING EXTERIOR DOORS TO REMAIN.
- EXISTING DRIVE-THRU WINDOW TO BE REPLACED.

SYMBOL LEGEND

- EXISTING CONSTRUCTION TO REMAIN.
- EXISTING CONSTRUCTION TO BE REMOVED.
- EXISTING DOOR AND FRAME TO REMAIN.
- EXISTING DOOR AND FRAME TO BE REMOVED.



Brian G. Fabo, License #11898
Expiration Date 12/31/2025

12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

fabo
architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

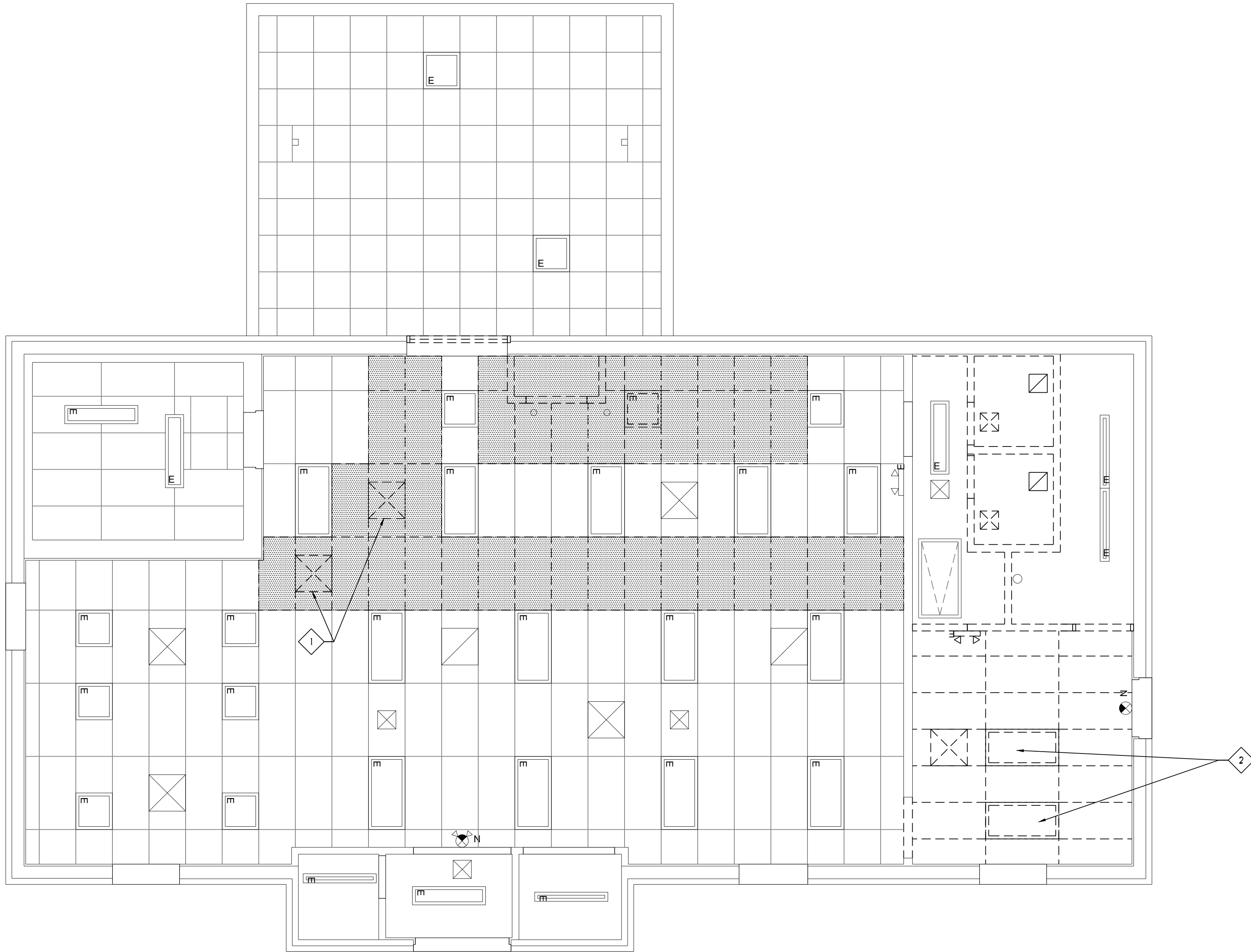
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revisions:					
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issue date: 09-12-2025

D-101

sheet No.
job No. FA25038

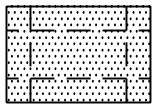


1 DEMOLITION CEILING PLAN
D-101.1 SCALE: 1/4" = 1'-0"

CEILING DEMOLITION NOTES

1. ALL DROP SOFFITS AND BULKHEADS NOTED TO BE DEMOLISHED SHALL BE REMOVE IN THEIR ENTIRETY TO BOTTOM OF ROOF DECK.
2. ALL WIRING ASSOCIATED WITH ALL ELECTRICAL ITEMS TO BE REMOVED BACK TO ELECTRICAL PANEL.
3. EXISTING EMERGENCY LIGHTING/SIGNAGE TO REMAIN, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXISTING LIGHTING TO REMAIN UNO.

SYMBOL LEGEND



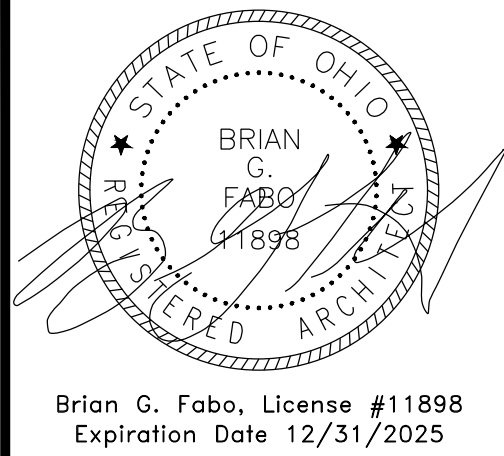
- PORTION OF EXISTING CEILING GRID TO BE REMOVED.

GENERAL MECH. DEMO NOTES

1. RELOCATE EXISTING CEILING DIFFUSERS AND RETURN AIR GRILLES IN AREAS WHERE INDICATED. PROTECT OPEN END OF DUCTWORK DURING CONSTRUCTION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES.

KEYED DEMOLITION NOTES: ◆

1. EXISTING CEILING DIFFUSER TO BE RELOCATED.
2. EXISTING LIGHT FIXTURES TO BE RELOCATED.



Brian G. Fabo, License #11898
Expiration Date 12/31/2025

12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

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architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

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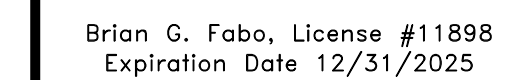
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D-101.1

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job No. FA25038



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OCCUPANCY CALCULATIONS

- INDICATES EGRESS PATH
- FIRE EXTINGUISHER, (FE - TYP.)

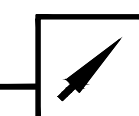
EGRESS CAPACITY

<u>DOOR</u>	<u>CALC.</u>	<u>NO. OF PEOPLE</u>
1. FRONT EGRESS DOOR	(34"/Ø2")	=170 PEOPLE
2. SIDE EGRESS DOOR	(58"/Ø2")	=290 PEOPLE



LS-1 | SCALE: 3/4" = 1'-0"

LS-1.0 | SCALE: 1/8" = 1'-0"



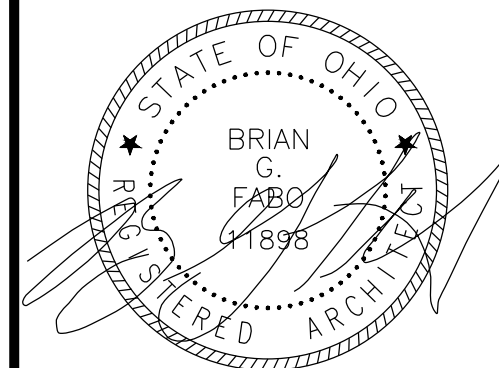
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Brian G. Fabo, License #11898
Expiration Date 12/31/2025

12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

fabo
architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

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A-101

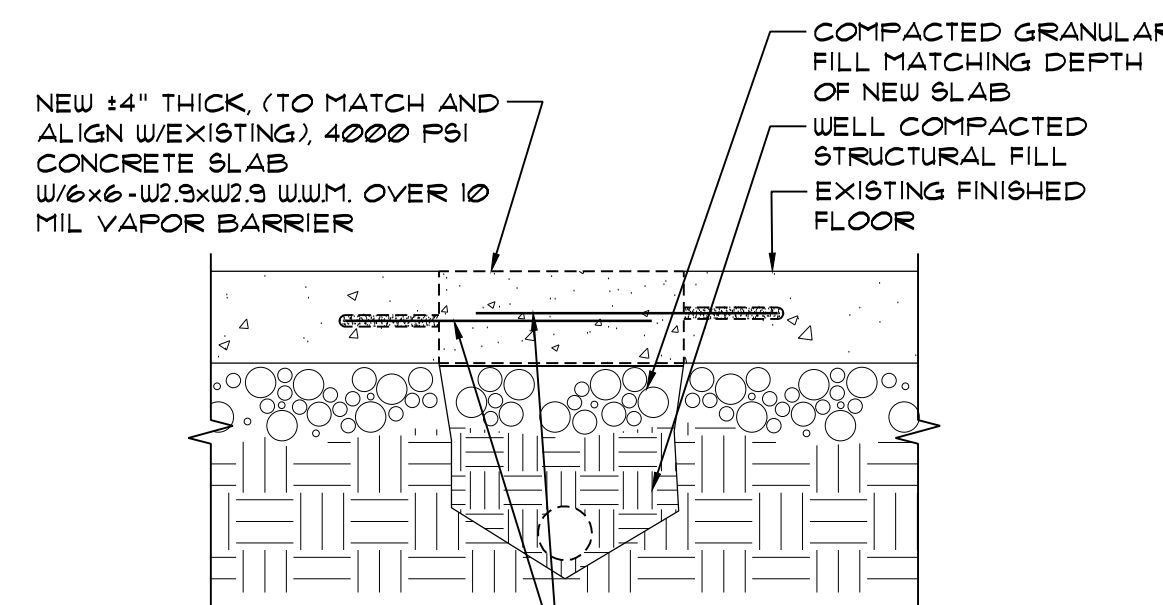
sheet No.
job No. FA25038

GENERAL NOTES:

- DIMENSIONS INDICATED ARE SHOWN FROM FACE OF MASONRY, FACE OF STUD OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. DIMENSIONS SHOWN ON ENLARGED PLANS AND DETAILS MAY BE TAKEN TO THE FACE OF FINISHED MATERIALS OR THE CENTERLINE OF FIXTURES IN ORDER TO COMMUNICATE REQUIRED CLEARANCES.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIAL.
- ALL WORK PERFORMED BY THE CONTRACTOR/SUB-CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF MUNICIPAL, LOCAL OR FEDERAL AND STATE LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED WITHIN THE CONSTRUCTION DOCUMENTS.
- DIMENSIONS NOTED "CLR" ARE TO BE CLEAR FROM FACE OF FINISH MATERIAL TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE AND ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT.
- WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE PRESERVATIVE TREATED.
- ELECTRICAL (RECEPTACLES, SWITCHES, ETC.) DEVICES SHALL NOT BE MOUNTED BACK TO BACK ON OPPOSITE SIDES OF PARTITIONS, UNLESS PROTECTED PER UL REQUIREMENTS. SWITCHES SHALL BE GANGED INTO ONE LOCATION WHENEVER POSSIBLE OR IN COMPLIANCE WITH GOVERNING CODE REQUIREMENTS.
- ROUGH OPENINGS FOR HINGE SIDE OF DOORS TO BE LOCATED 6" FROM ADJACENT CONSTRUCTION, UNLESS OTHERWISE NOTED.
- ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALLS OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
- INTERIOR FINISHES SHALL CONFORM TO OBC CHAPTER 8 REQUIREMENTS, REFER SCHEDULES & DETAILS.
- INSTALL FIRE EXTINGUISHERS PER LOCAL FIRE PREVENTION BUREAU'S REQTS. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE DOES NOT EXCEED 15 FEET. ALL FIRE EXTINGUISHERS SHALL HAVE A MINIMUM RATING OF 3A:40B:C AND SHALL BE SECURELY MOUNTED TO THE WALL ON AN APPROVED BRACKET, WITH THE TOP OF THE HANDLE NO HIGHER THAN 5' ABOVE THE FLOOR. REFER I/L8-1 FOR LOCATIONS.
- EXIT OR EGRESS DOORS SHALL BE EQUIPPED WITH HARDWARE WHICH CAN BE READILY OPENED FROM THE EGRESS SIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT IN COMPLIANCE WITH LOCAL APPLICABLE CODES.

KEYED FLOOR PLAN NOTES:

- NEW FRP OVER EXISTING DRYWALL.
- INFILL EXISTING WINDOW OPENING TO MATCH EXISTING ADJACENT SURFACE. TINT GLAZING PER CLIENT DIRECTION.
- NEW DRIVE-THRU WINDOW PER CLIENT DIRECTION.

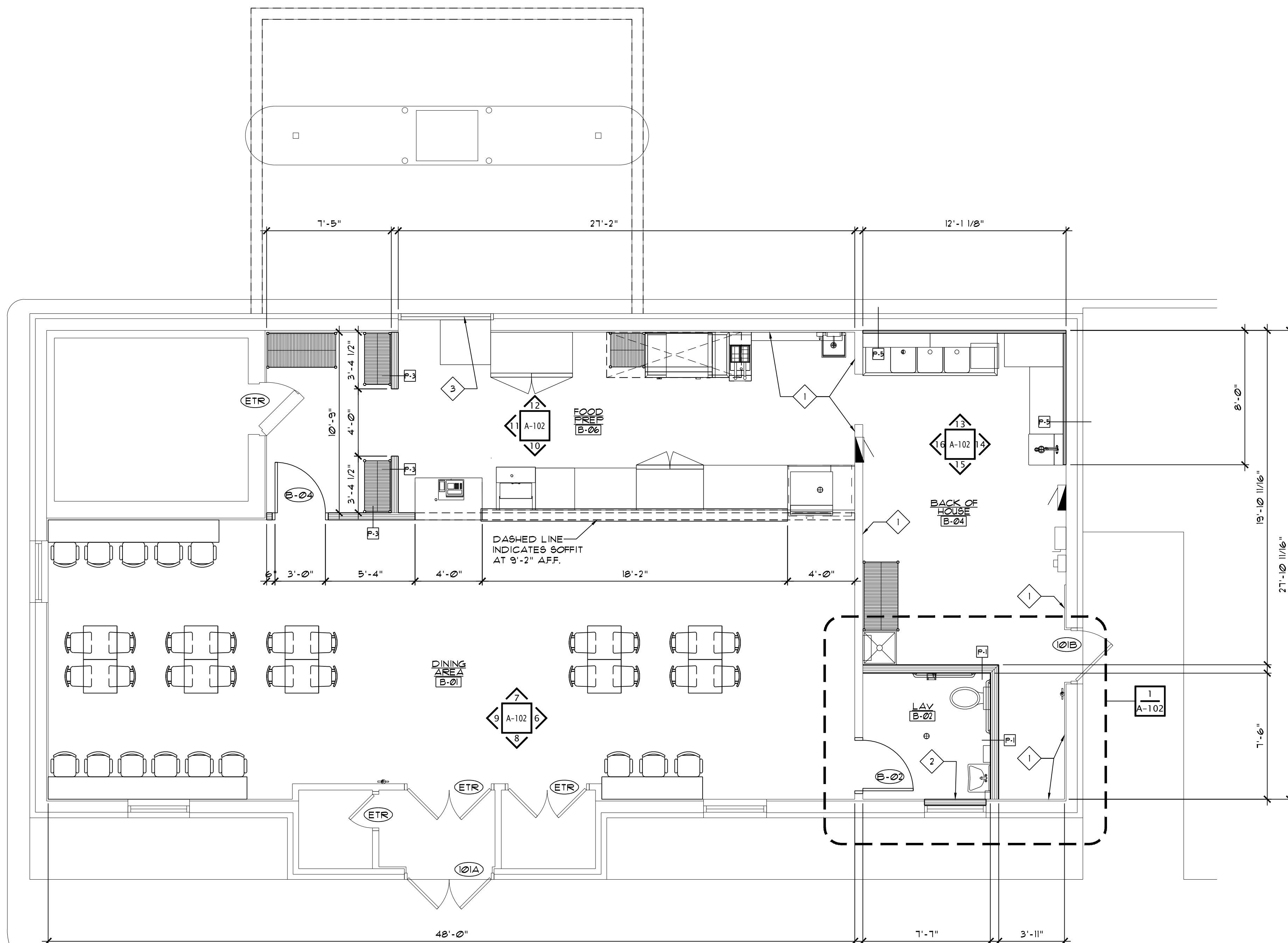


*4 @ 16" O.C. - ALTERNATING SIDES OF OPENING - ANCHOR 4" MIN INTO CENTER OF EXISTING SLAB USING HILTI HIT HY 200 ADHESIVE ANCHORING SYSTEM

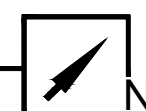
NOTE: FLOOR INFILL FOR ELECTRICAL TRENCHING SHALL BE SIMILAR TO DETAIL ABOVE.

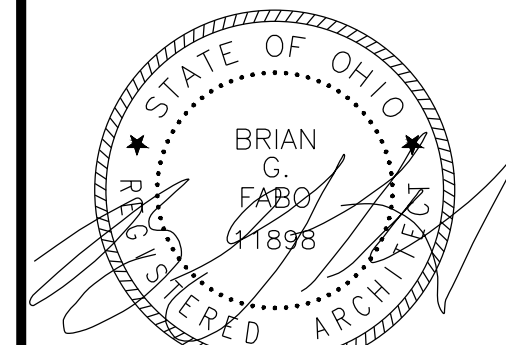
PLUMBING TRENCH - FLOOR INFILL DETAIL

3 A-101 SCALE: 3/4" = 1'-0"



1 PROPOSED FLOOR PLAN
A-101 SCALE: 1/4" = 1'-0"





Brian G. Fabo, License #11898
Expiration Date 12/31/2025

12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

fabo
architecture

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210 E305TH STREET WILLOWICK, OHIO 44095

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A-102

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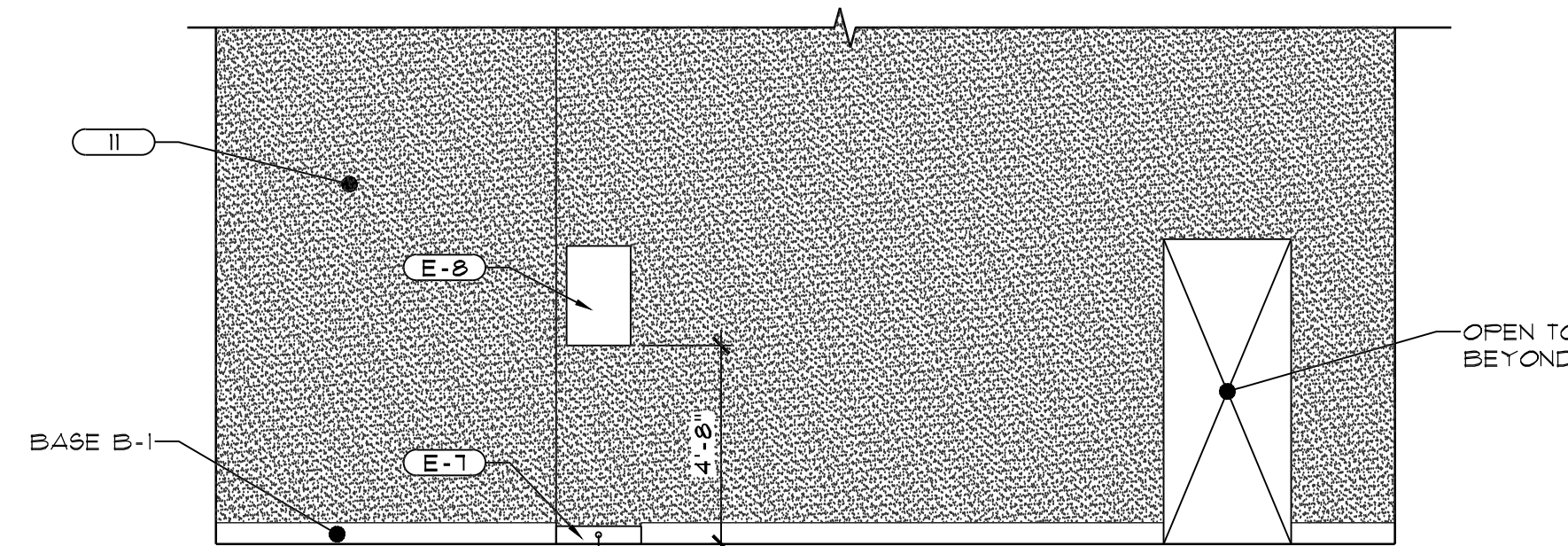
job No. FA25038

EQUIPMENT LEGEND:

KEY NO.	KEY NOTE DESCRIPTION
1	WALL MOUNTED 65" TV PROVIDED BY TENANT
2	ARCADE VIDEO GAME PROVIDED BY TENANT (IF APPLICABLE)
3	FLOOR DRAIN - REFER PLUMBING DWGS
4	ELECTRIC PANEL - REFER ELECTRICAL DWGS
6	CASEWORK IS PROVIDED BY TENANT UNDER SEPARATE CONTRACT
7	FURNITURE IS PROVIDED BY TENANT
9	JUKE BOX PROVIDED BY TENANT. (IF APPLICABLE)
10	STAINLESS STEEL WALL LINER PANEL
11	FRP WALL PANEL
E-1	48"X24" STAINLESS STEEL WORK TABLE. (IF APPLICABLE)
E-2	BASIN FOOD PREP SINK
E-2A	17"X30" STAINLESS STEEL (1) BASIN FOOD PREP SINK W/ DRAINBOARDS. (IF APPLICABLE)
E-3	10"X48" STAINLESS STEEL WALL SHELF
E-4	FULL-OUT PRE-RINSE SPRAYER FAUCET
E-5	36"X30" STAINLESS STEEL 3 COMPARTMENT SINK AND FAUCET W/ DRAINBOARDS
E-6	WALL HUNG STAINLESS STEEL HAND WASHING SINK AND FAUCET
E-7	24"X24" MOP SINK AND FAUCET.
E-8	RHEEM TANKLESS GAS WATER HEATER - REFER PLUMBING DWGS.
E-9	ZURN G12101 LOW PROFILE GREASE INTERCEPTOR
E-10	WALL MOUNTED PORTABLE FIRE EXTINGUISHER 5 LB ABC, RECHARGABLE UL RATING 3A-40B:C W/ WALL BRACKET
E-11	48"X24" (4) SHELF WIRE RACK SHELVE
E-12	STAINLESS STEEL (1) DOOR COOLER (IF APPLICABLE)
E-13	MAINSTREET BTR-49-R (2) SOLID DOOR REACH-IN REFRIGERATOR
E-14	STAINLESS STEEL (2) DOOR FREEZER
E-15	POTATO CHIP DISPLAY RACK (IF APPLICABLE)
E-16	GLASS DOOR BEVERAGE COOLER (IF APPLICABLE)
E-17	STAINLESS STEEL HAND WASHING SINK WITH FAUCET (IF APPLICABLE)
E-18	PAPER TOWEL DISPENSER
E-19	SOAP DISPENSER
E-20	2- DOOR FOOD WARMER/MERCHANDISER (IF APPLICABLE)
E-21	FOOD WARMER (IF APPLICABLE)
E-22	WELLS HDG2430G 30" GAS FLATTOP GRIDDLE
E-23	60" AVANTCO CBE-HC 60" 2 DRAWER REFRIGERATED CHEF BASE
E-24	GAS FLOOR FRYER
E-25	TYPE I EXHAUST HOOD W/ FIRE SUPPRESSION
E-26	AVANTCO 1 DOOR REFRIGERATED SANDWICH PREP TABLE
E-27	30"X12" WORK TABLE
E-28	GRAVITY FEED SLICER (IF APPLICABLE)
E-30	BEER DISPENSER (IF APPLICABLE)
E-31	ATOSA MGF8405GR UNDERCOUNTER FREEZER
E-32	BEVERAGE DISPENSER
E-33	POS - CASH REGISTER
E-34	MANITOWOC IT0450 ICE CUBE MACHINE
E-35	24"X42" WORK TABLE

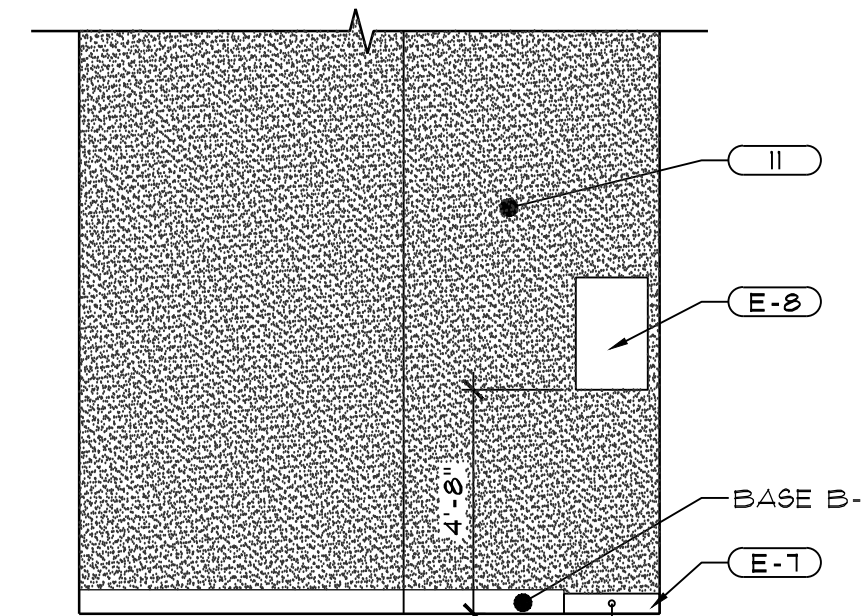
TOILET ACCESSORY LEGEND:

KEY NO.	KEY NOTE DESCRIPTION
T-1	42" GRAB BAR
T-2	36" GRAB BAR
T-3	18" GRAB BAR
T-4	SURFACE MOUNTED TOILET PAPER DISPENSER
T-5	18"X36" WALL MOUNTED MIRROR
T-6	SOAP DISPENSER
T-7	PAPER TOWEL DISPENSER
T-8	PIPE INSULATION/PROTECTION



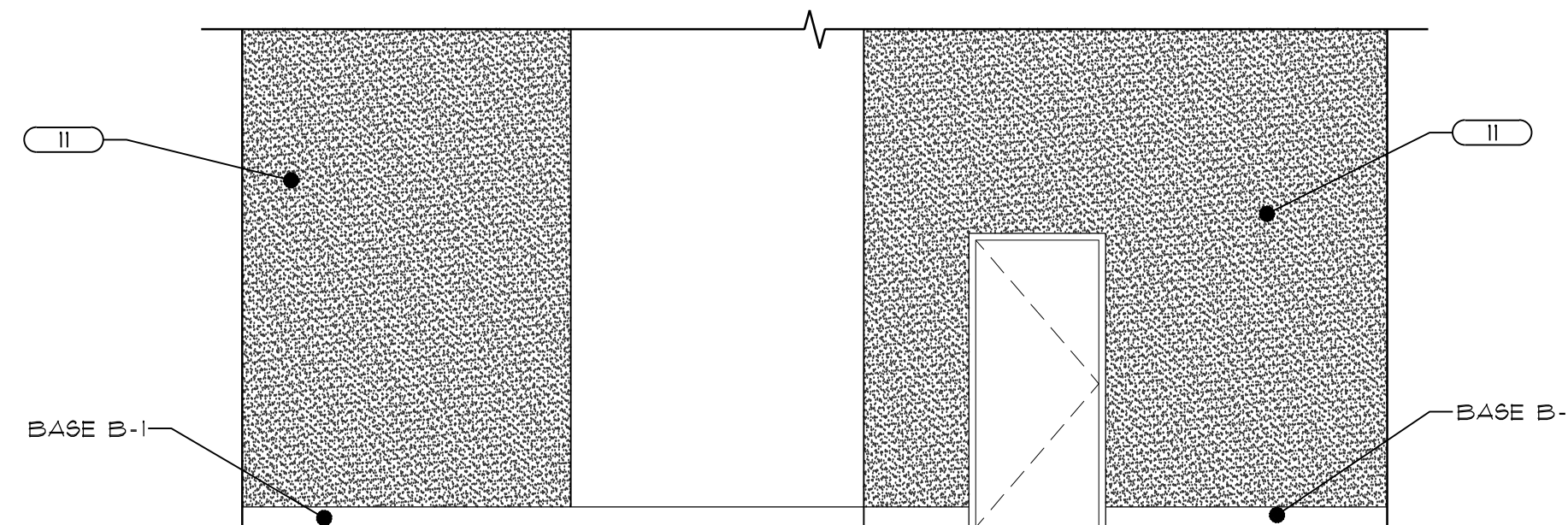
16 BACK OF HOUSE ELEVATION

A-102 SCALE: 1/4" = 1'-0"



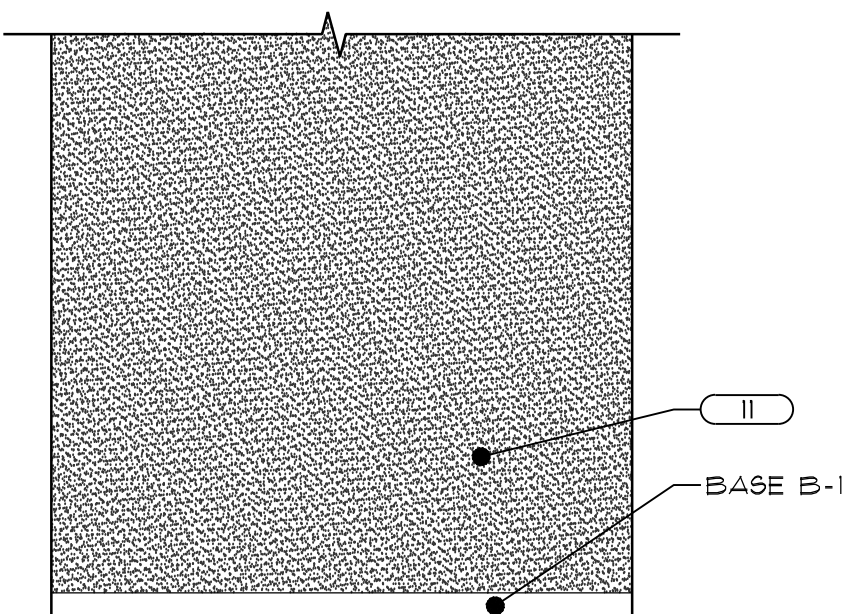
15 BACK OF HOUSE ELEVATION

A-102 SCALE: 1/4" = 1'-0"



14 BACK OF HOUSE ELEVATION

A-102 SCALE: 1/4" = 1'-0"



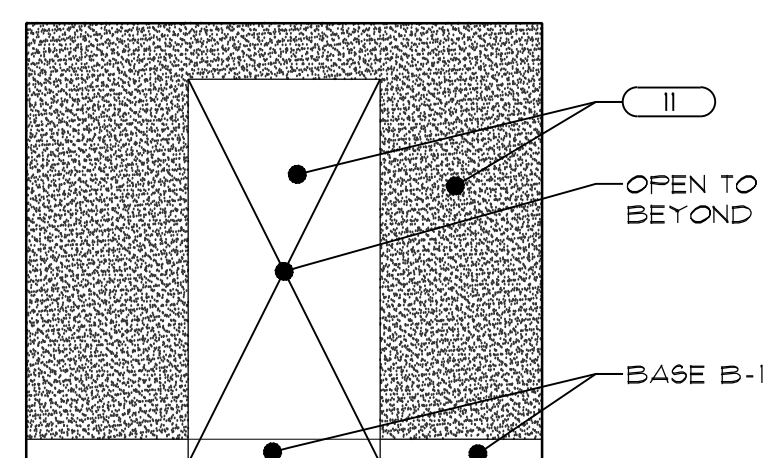
13 BACK OF HOUSE ELEVATION

A-102 SCALE: 1/4" = 1'-0"



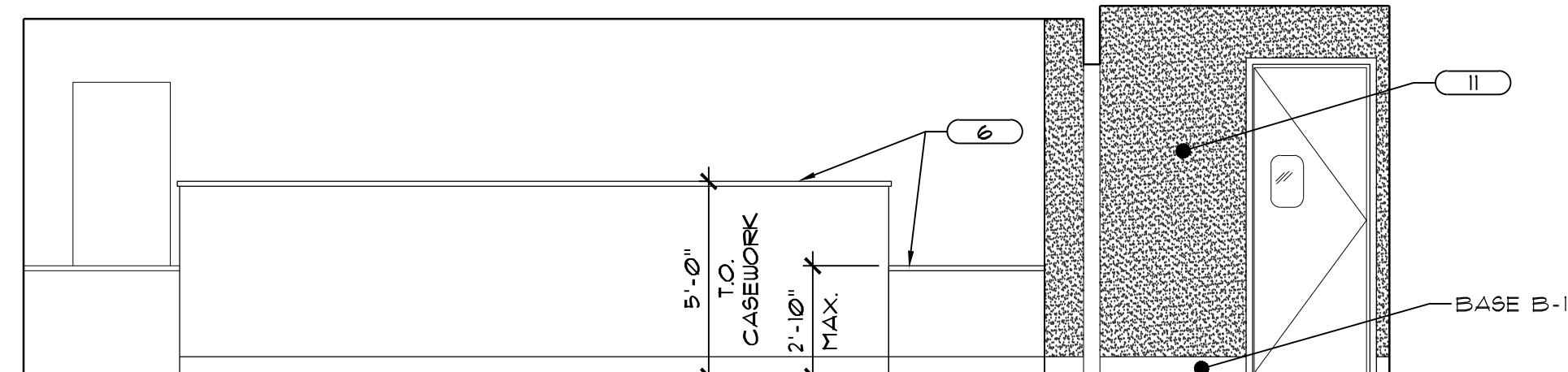
12 PREP AREA ELEVATION

A-102 SCALE: 1/4" = 1'-0"



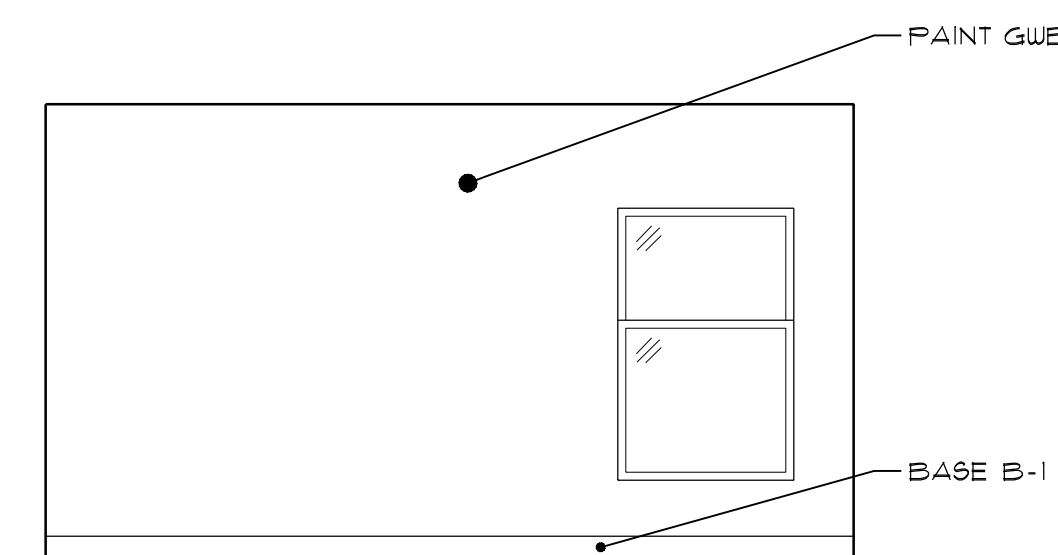
11 PREP AREA ELEVATION

A-102 SCALE: 1/4" = 1'-0"



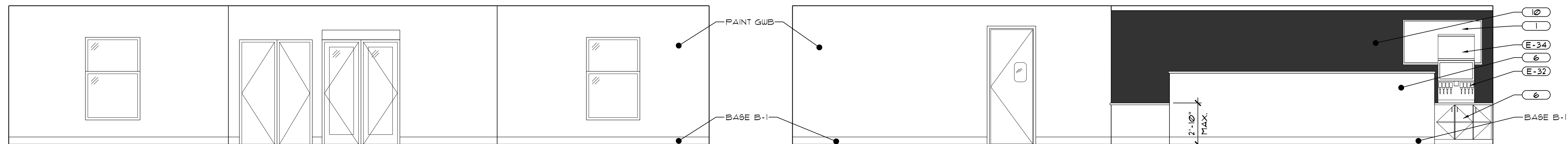
10 PREP AREA ELEVATION

A-102 SCALE: 1/4" = 1'-0"



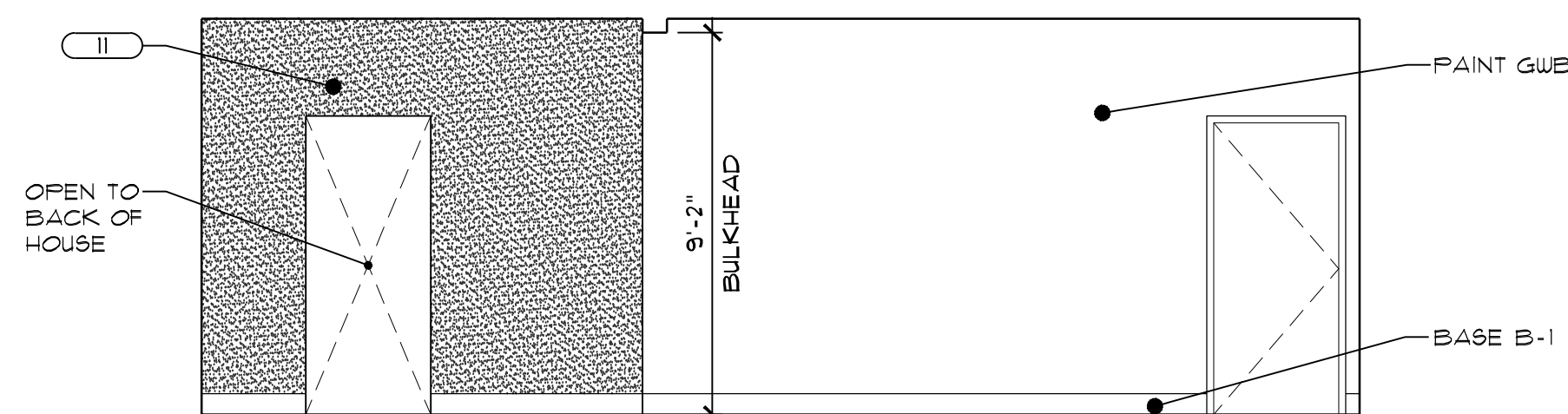
9 DINING ELEVATION

A-102 SCALE: 1/4" = 1'-0"



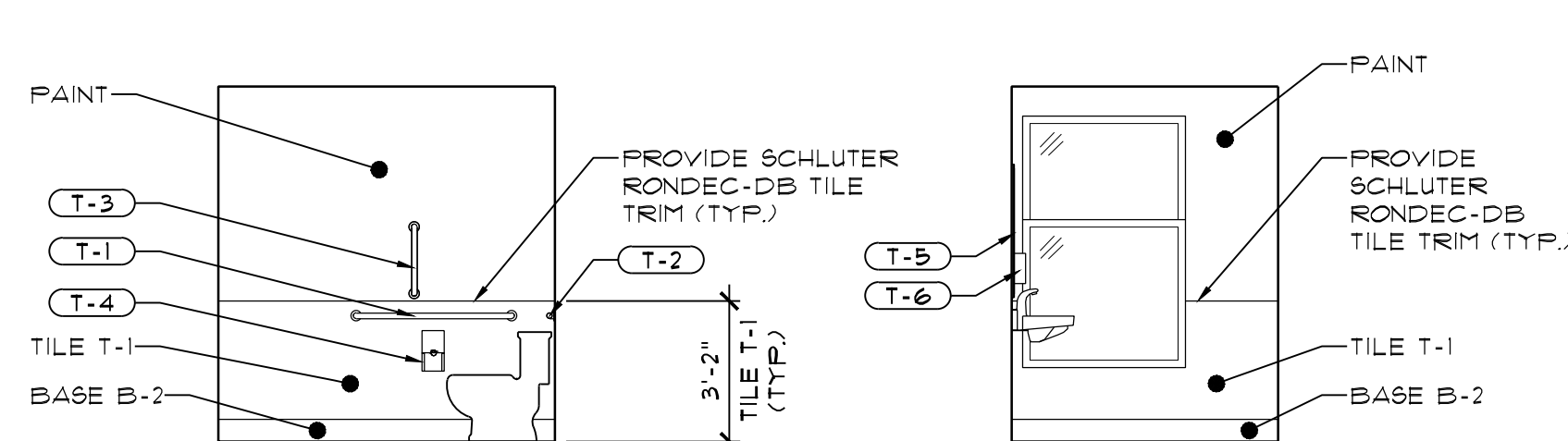
8 DINING ELEVATION

A-102 SCALE: 1/4" = 1'-0"



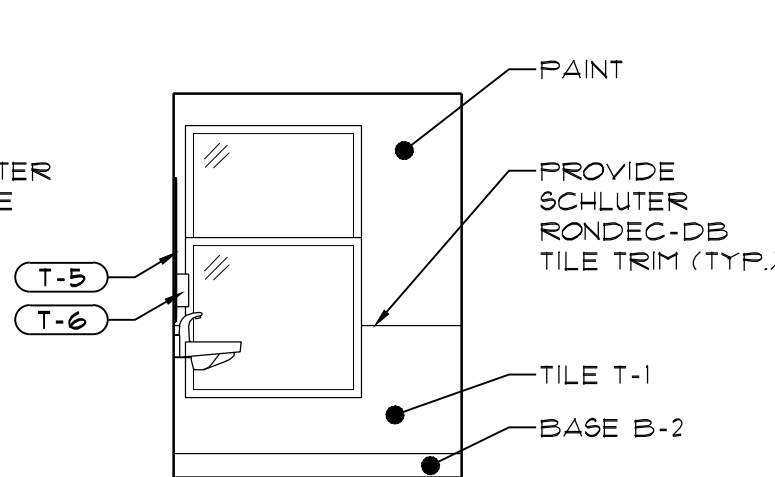
6 DINING ELEVATION

A-102 SCALE: 1/4" = 1'-0"



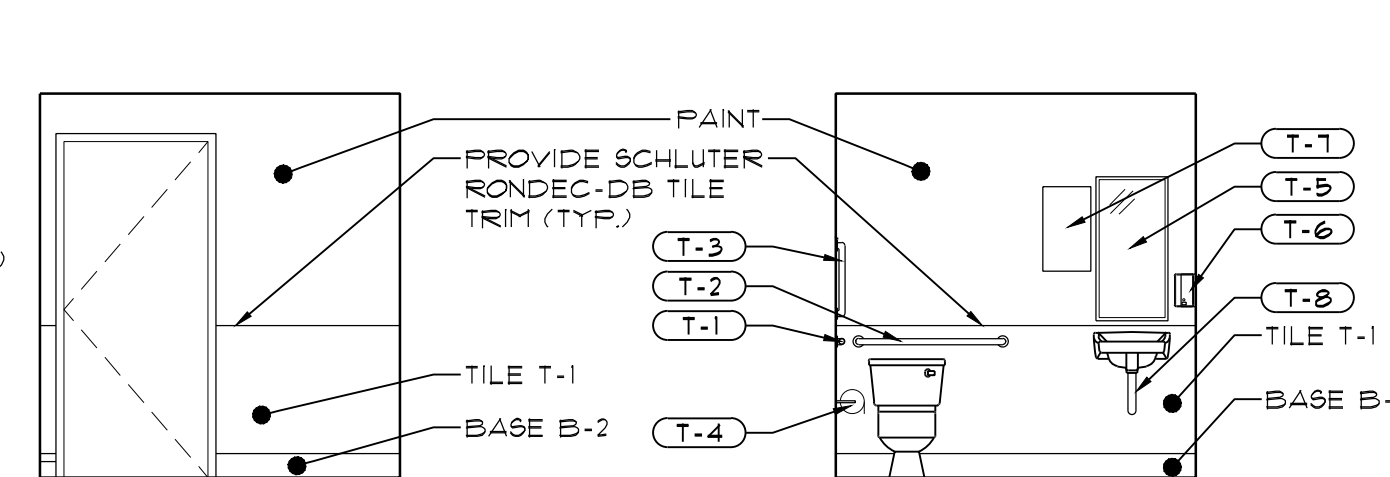
5 LAV ELEVATION

A-102 SCALE: 1/4" = 1'-0"



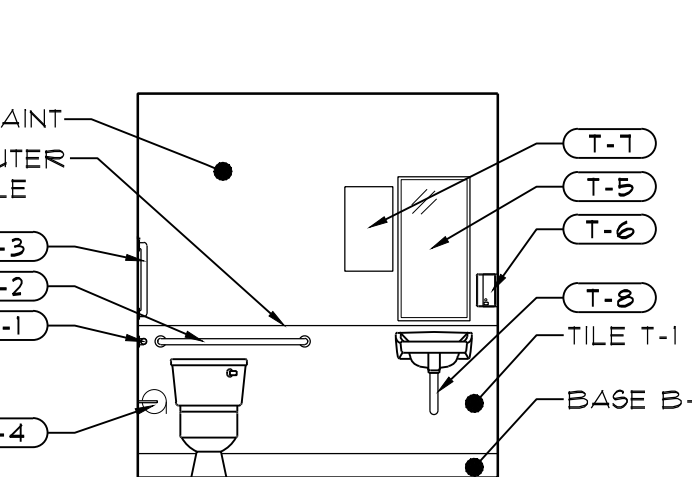
4 LAV ELEVATION

A-102 SCALE: 1/4" = 1'-0"



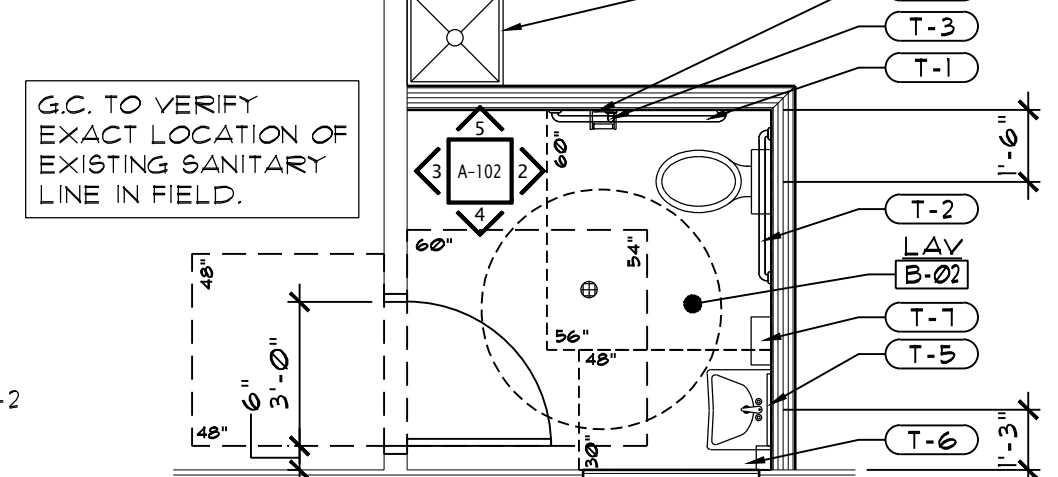
3 LAV ELEVATION

A-102 SCALE: 1/4" = 1'-0"



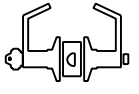
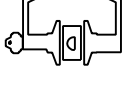
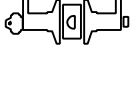
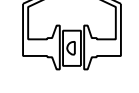
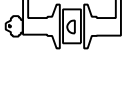
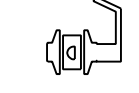
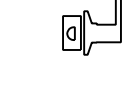
2 LAV ELEVATION

A-102 SCALE: 1/4" = 1'-0"

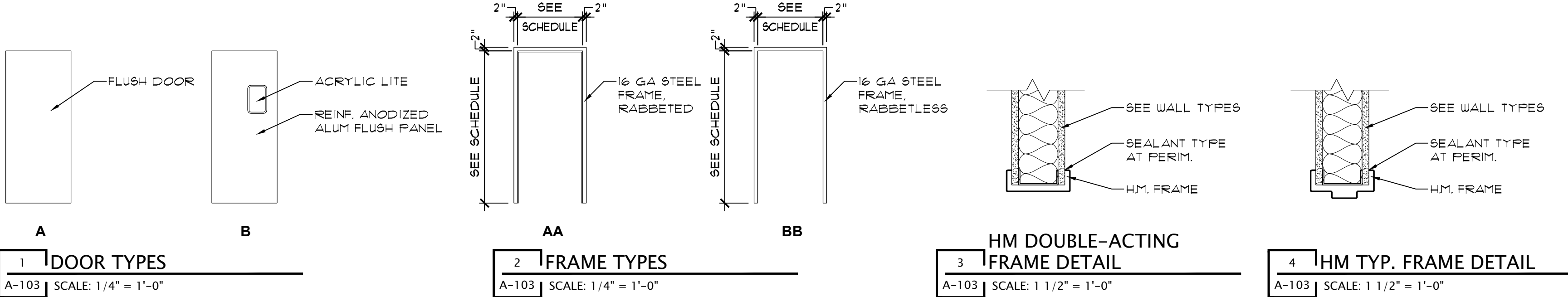


1 LAV FLOOR PLAN

A-102 SCALE: 1/4" = 1'-0"

LOCKSET FUNCTION CHART					
	DESCRIPTION	OUTSIDE LEVER		INSIDE LEVER	
FUNCTION	LATCH OPERATED BY	LOCKED BY	UNLOCKED BY	LOCKED BY	UNLOCKED BY
AB-ENTRY ANSI F109 	ROTATING INSIDE LEVER or ROTATING OUTSIDE LEVER ONLY WHEN INSIDE PUSH BUTTON IS OUT or TURNING KEY IN OUTSIDE LEVER	PUSHING INSIDE BUTTON or PUSHING AND TURNING THE INSIDE BUTTON. TURNING THE BUTTON KEEPS THE OUTSIDE LEVER LOCKED UNTIL THE BUTTON IS TURNED BACK	TURNING THE KEY IN THE OUTSIDE LEVER (ONLY WHEN THE BUTTON IS NOT TURNED) or ROTATING THE INSIDE LEVER (ONLY WHEN THE BUTTON IS NOT TURNED) or CLOSING THE DOOR (ONLY WHEN THE BUTTON IS NOT TURNED)	CANNOT BE LOCKED	ALWAYS UNLOCKED
D-STOREROOM ANSI F86 	TURNING KEY IN THE OUTSIDE LEVER or ROTATING INSIDE LEVER	ALWAYS LOCKED	CANNOT BE UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED
L-PRIVACY ANSI F76 	ROTATING INSIDE LEVER or ROTATING OUTSIDE LEVER ONLY WHEN INSIDE PUSH BUTTON IS OUT	PUSHING INSIDE BUTTON	TURNING THE KEY IN THE OUTSIDE LEVER (ONLY WHEN THE INSIDE BUTTON IS ENGAGED) or ROTATING THE INSIDE LEVER or CLOSING THE DOOR	CANNOT BE LOCKED	ALWAYS UNLOCKED
N-PASSAGE ANSI F75 	ROTATING INSIDE LEVER or ROTATING OUTSIDE LEVER	CANNOT BE LOCKED	ALWAYS UNLOCKED	CANNOT BE LOCKED	ALWAYS UNLOCKED
R-CLASSROOM ANSI F84 	ROTATING INSIDE LEVER or TURNING KEY IN OUTSIDE LEVER WHEN OUTSIDE LEVER IS LOCKED or ROTATING OUTSIDE LEVER WHEN NOT LOCKED BY KEY	TURNING KEY IN OUTSIDE LEVER	TURNING KEY IN OUTSIDE LEVER	CANNOT BE LOCKED	ALWAYS UNLOCKED
Y-EXIT 	ROTATING THE INSIDE LEVER	NO OUTSIDE LEVER - BLANK ROSE	NO OUTSIDE LEVER - BLANK ROSE	CANNOT BE LOCKED	ALWAYS UNLOCKED
1DT-SINGLE DUMMY TRIM 	THIS IS A SINGLE, SURFACE-MOUNTED LEVER FOR AN INACTIVE DOOR OR A NON-LATCHING DOOR				

DOOR SCHEDULE																																						
Door Number	Door							Frame					Lockset Function	Fire Rating (Mins)	Lite	Push	Pull	Lever Set	Key Lock	Panic-Rm	Surf/Mtd. Panic	Concealed Panic	Flush Bolt	Deadbolt	Door Stop	Latchguard	Rain Drip	Threshold	Weather Strip	Sweep	Astragal	Kickplate	Access Control	Magnetic Lock	Electrified Strike	Electrified Hwvr.	Closer	Comments
	Type	Width	Height	Thickness	Door Material	Finish	Under Cut	Type	Material	Finish	Jamb	Head																										
101A	EX'G	2'-2 5/8"	7'-0"	1 3/4"	EX'G			EX'G	ALUM.	KYNAR			PUSH/PULL		X	X	X							X												X	EXISTING DOOR AND HARDWARE TO REMAIN	
101B	EX'G	3'-0"	7'-0"	1 3/4"	EX'G			EX'G	INSUL. H.M.	PAINT			AB					X	X					X		X	X	X	X							X	EXISTING DOOR AND HARDWARE TO REMAIN	
B-02	A	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	1"	AA	H.M.	PAINT	4/A-103	4/A-103	L					X	X																			
B-04	B	3'-0"	7'-0"	1 3/4"	ALUM	ANODIZED		BB	H.M.	PAINT	3A-103	3A-103	L		YES																						DOUBLE-ACTING COMMERCIAL KITCHEN DOOR w/ (3) SPRING-TENSIONED HINGES	



INTERIOR FINISH REQUIREMENTS

USE GROUP: A-2 ASSEMBLY, RESTAURANT - NON-SPRINKLERED

INTERIOR EXIT STAIRWAYS, RAMPS & EXIT PASSAGEWAYS:
CLASS A

CORRIDORS & ENCLOSURE FOR EXIT ACCESS STAIRWAYS & RAMPS:
CLASS A

ROOMS & ENCLOSED SPACES:
CLASS B

CLASS A = FLAME SPREAD INDEX 0-25
SMOKE DEVELOPED INDEX 0-450

CLASS B = FLAME SPREAD INDEX 26-75
SMOKE DEVELOPED INDEX 0-450

CLASS C = FLAME SPREAD INDEX 76-200
SMOKE DEVELOPED INDEX 0-450

ROOM FINISH SCHEDULE

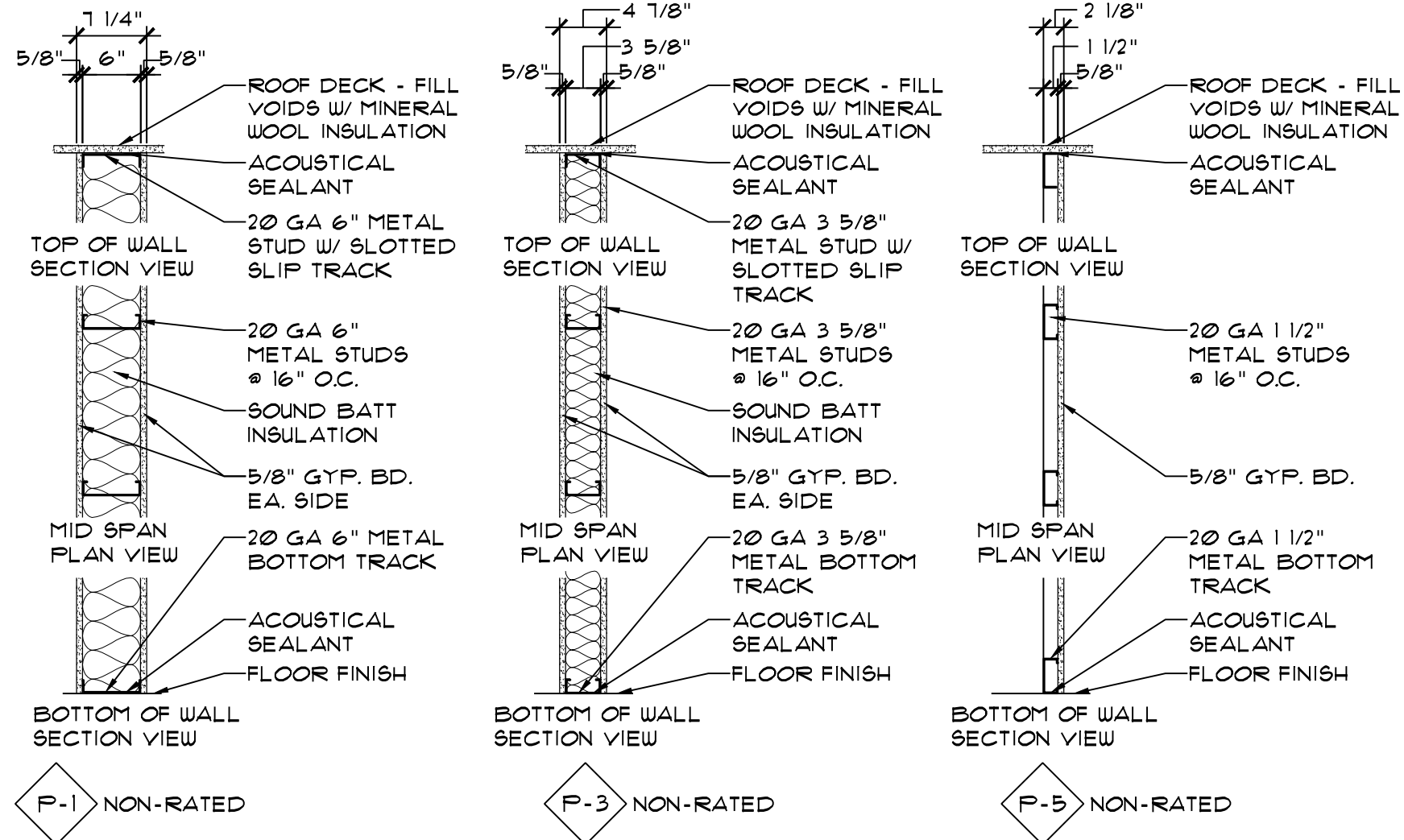
Number	Room Name	Floor Finish	Base Finish	Walls				Ceiling Finish	Comments
				North	South	East	West		
B-01	DINING AREA	CONC-1	B-1	PTD. GWB	PTD. GWB	PTD. GWB	PTD. GWB	ACT-2	
B-02	LAV	CONC-1	B-2	PAINT/T-1	PAINT/T-1	PAINT/T-1	PAINT/T-1	PTD. GWB	
B-04	BOH	EP-1	B-1	FRP-1	FRP-1	FRP-1	FRP-1	PTD. OPEN STRUCTURE	
B-06	FOOD PREP	EP-1	B-1	SS-1	FRP-1	FRP-1	FRP-1	ACT-1	

FINISHES LEGEND

DESIGNATION	MANUF.	FINISH	COLOR	SIZE	REMARKS
EP-1	EVERLAST EPOXY SYSTEMS	EVERLAST FLOOR	T.B.D.	1/8" MIN. THICKNESS	100% SOLIDS EPOXY, MARBLE-CHIP & QUARTZ AGGREGATE W/ COURSE KITCHEN NON-SLIP ADDITIVE MEETING MIN. WET DYNAMIC COEFFICIENT OF FRICTION (DCOF) OF 0.42 PER ANSI A137.1/A326.3
CONC-1	EUCUD CHEMICAL	EUCO DIAMOND HARD			LIQUID DENSIFIER & SEALER - GRIND AND POLISH CONCRETE TO ACHIEVE MIN. WET DYNAMIC COEFFICIENT OF FRICTION (DCOF) OF 0.42 PER ANSI A137.1/A326.3
B-1	JOHNSONITE	RUBBER	T.B.D.	.080, 6" COVE	
B-2	T.B.D.	T.B.D.	T.B.D.	T.B.D.	6" SANITARY TILE COVE BASE - MANUF. T.B.D.
T-1	T.B.D.	T.B.D.	T.B.D.	T.B.D.	WALL TILE - MANUF. T.B.D.
ACT-1	ARMSTRONG	CERAMAGUARD FINE FISSURED WHITE	MATCH EXISTING	2x4x5/8	SQUARE-EDGE COMMERCIAL KITCHEN CEILING TILES W/ 15/16" GRID
ACT-2	ARMSTRONG	CORTEGA	WHITE	2x4x5/8	SQUARE-EDGE CEILING TILES W/ 15/16" GRID
SS-1	MARLITE	STAINLESS STEEL SHEET			22 GA 304 BRUSHED STAINLESS STEEL SHEET W/ STAINLESS STEEL EDGE & JOINT MOULDING
FRP-1		STANDARD FRP, PEBBLED	WHITE	3/32	CLASS A W/ PRE-MANUF PVC TRIM COLOR-MATCHED TO FRP
PAINT					NO VOC - COLOR & SHEEN T.B.D.

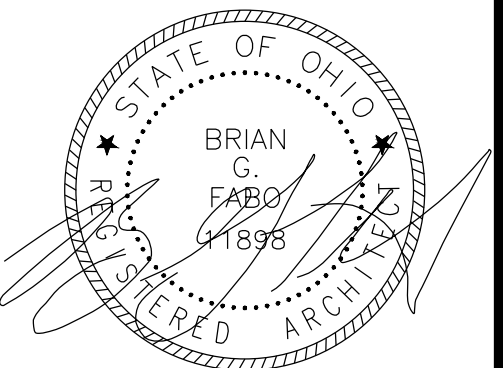
PARTITION TYPE NOTES:

- UNLESS NOTED OTHERWISE, ALL PARTITION TYPES ARE CONTINUOUS FROM FLOOR TO UNDERSIDE OF ROOF DECK, COVE AROUND ALL PENETRATIONS, OBSTRUCTIONS, STRUCTURAL ELEMENTS, DECKING, ETC.
- WHERE STC-RATED ASSEMBLIES ARE INDICATED, PROVIDE ACOUSTICAL SEALANT ON BOTH SIDES OF PARTITION, PERIMETER OF PARTITION AND ALL PENETRATIONS. PROVIDE MINERAL WOOL ACOUSTICAL INSULATION IN ALL VOIDS.
- WHERE FIRE-RATED OR SMOKE ASSEMBLIES ARE INDICATED, PROVIDE FIRE-SAFING AND/OR FIRE CAULKING ON BOTH SIDES OF PARTITION, PERIMETER OF PARTITION AND ALL PENETRATIONS.
- PROVIDE MOISTURE RESISTANT GYP. BD. ON ALL WALLS IN ALL RESTROOMS AND ON ANY WALL WITH A PLUMBING FIXTURE.



5 PARTITION TYPES

A-103 SCALE: 3/4" = 1'-0"



Brian G. Fabo, License #11898
Expiration Date 12/31/2025

12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

fabo
architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

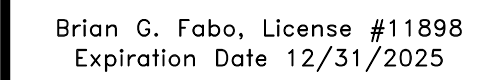
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ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

210 E305TH STREET
WILLOWICK, OHIO 44095

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1. ALL EXHAUST HOODS WILL BE CONSTRUCTED TO MEET NSF, UL, AND NFPA 96 STANDARDS. IN ADDITION ALL EXHAUST HOODS ARE TO MEET ALL LOCAL GOVERNING CODES.
2. ALL COOKING EQUIPMENT UNDER THE EXHAUST HOODS WILL BE ON EITHER CASTERS WITH FLEXIBLE QUICK DISCONNECTS AND RESTRAINTS OR ON ADJUSTABLE STAINLESS STEEL LEGS AND SEALED TO THE WALLS WITH CLEAR SILICONE SEALANT.
3. ALL ICE MACHINES TO BE HELD OFF ADJACENT BUILDING WALLS BY 6". IF A VACUUM BREAKER IS REQUIRED BY CODES IT WILL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
4. DISHWASHERS, WHERE APPLICABLE, WILL BE DESIGNED TO HAVE HIGH TEMPERATURE 180°F. FINAL RINSE AND WASH TEMPERATURES OF 140°F.
5. THE EXHAUST HOODS AND THE DUCTS WILL BE PROVIDED WITH AN AUTOMATIC FIRE SUPPRESSION SYSTEM.
6. ALL REFRIGERATORS WILL BE FURNISHED WITH THERMOMETERS WHICH ARE EASILY READABLE IN PROPER WORKING CONDITION AND ACCURATE WITH IN A RANGE OF PLUS OR MINUS 2 DEGREES.
7. ALL COUNTER TOP EQUIPMENT NOT READILY MOVABLE, WEIGHING OVER 20 POUNDS WILL BE PROVIDED WITH 4" LEGS WITH ADJUSTABLE FEET.
8. ALL CHEMICAL SANITIZER KITS FOR THREE COMPARTMENT SINKS WILL BE FURNISHED BY THE CHEMICAL SUPPLIER.
9. ALL CHEMICAL INJECTION SYSTEMS MUST BE INSTALLED DOWNSTREAM FROM A VACUUM BREAKER OR AIR GAP TO PREVENT POSSIBLE BACK SIPHON OF THE CHEMICALS INTO THE WATER LINE SYSTEM.
10. ALL CUTTING BOARDS SHALL BE OF NON WOOD CONSTRUCTION.
11. ALL FOOD SERVICE AND RELATED EQUIPMENT SHALL BE INSTALLED IN CONFORMITY WITH THE NSF STANDARDS AND SHALL BE NSF APPROVED.
12. AN AISLE SPACE OF A MINIMUM OF THIRTY-SIX (36) INCHES OR MORE SHALL BE PROVIDED WITH IN ALL WORK SPACES.
13. BACK SPLASHES OF EQUIPMENT SHALL BE INSTALLED A MINIMUM OF THREE (3) INCHES FROM WALLS OR SEALED TO THE WALL WITH SILICONE SEALANT.
14. VACUUM BREAKERS, WHEN USED, TO BE A MINIMUM OF SIX (6) INCHES ABOVE THE FLOOD RIM WITH NO SHUT OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
15. A MINIMUM OF 50 FOOT CANDLES OF LIGHT SHALL BE PROVIDED IN ALL FOOD PREPARATION AND SERVING AREAS.
16. HAND WASHING FACILITIES ARE REQUIRED IN THE FOOD PREPARATION, SERVING, AND UTENSIL WASHING AREAS AND WILL BE SHOWN ON THE FLOOR PLAN.
17. SNEEZE GUARD PROTECTION WHERE APPLICABLE WILL BE PROVIDED FOR EXPOSED, UNRAFFED FOOD SHOWN AT SUCH AREA AS SALAD BARS, BUFFETS, AND CAFETERIA LINES.

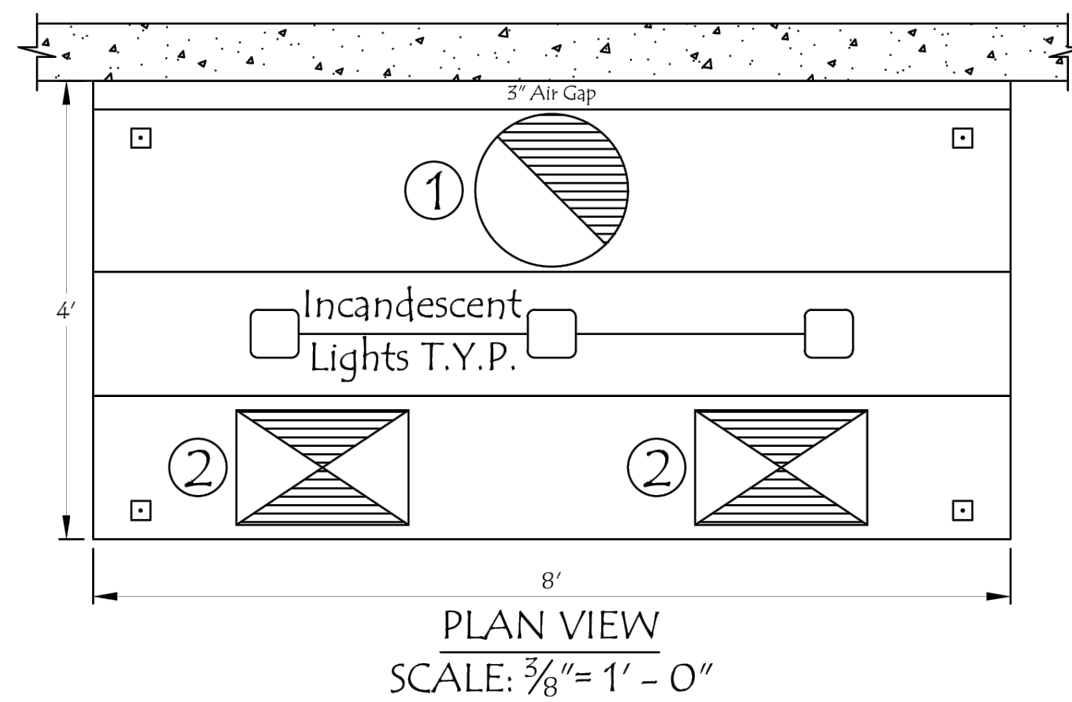
KEY NO.	KEY NOTE DESCRIPTION
1	WALL MOUNTED 65" TV PROVIDED BY TENANT
2	ARCADE VIDEO GAME PROVIDED BY TENANT (IF APPLICABLE)
3	FLOOR DRAIN - REFER PLUMBING DWGS
4	ELECTRIC PANEL - REFER ELECTRICAL DWGS
6	CASEWORK IS PROVIDED BY TENANT UNDER SEPARATE CONTRACT
7	FURNITURE IS PROVIDED BY TENANT
9	JUKE BOX PROVIDED BY TENANT. (IF APPLICABLE)
10	STAINLESS STEEL WALL LINER PANEL
11	FRP WALL PANEL
E-1	48"x24" STAINLESS STEEL WORK TABLE. (IF APPLICABLE)
E-2	BASIN FOOD PREP SINK
E-2A	72"x30" STAINLESS STEEL (1) BASIN FOOD PREP SINK W/ DRAINBOARDS. (IF APPLICABLE)
E-3	10"x48" STAINLESS STEEL WALL SHELF
E-4	PULL-OUT PRE-RINSE SPRAYER FAUCET
E-5	36"x30" STAINLESS STEEL 3 COMPARTMENT SINK AND FAUCET W/ DRAINBOARDS
E-6	WALL HUNG STAINLESS STEEL HAND WASHING SINK AND FAUCET
E-7	24"x24" MOP SINK AND FAUCET.
E-8	RHEEM TANKLESS GAS WATER HEATER - REFER PLUMBING DWGS.
E-9	ZURN GT2101 LOW PROFILE GREASE INTERCEPTOR
E-10	WALL MOUNTED PORTABLE FIRE EXTINGUISHER 5 LB ABC, RECHARGABLE UL RATING 3A-40B:C W/ WALL BRACKET
E-11	48"x24" (4) SHELF WIRE RACK SHELVING
E-12	STAINLESS STEEL (1) DOOR COOLER (IF APPLICABLE)
E-13	MAINSTREET BTR-49-R (2) SOLID DOOR REACH-IN REFRIGERATOR
E-14	STAINLESS STEEL (2) DOOR FREEZER
E-15	POTATO CHIP DISPLAY RACK (IF APPLICABLE)
E-16	GLASS DOOR BEVERAGE COOLER (IF APPLICABLE)
E-17	STAINLESS STEEL HAND WASHING SINK WITH FAUCET (IF APPLICABLE)
E-18	PAPER TOWEL DISPENSER
E-19	SOAP DISPENSER
E-20	2- DOOR FOOD WARMER/MERCHANDISER (IF APPLICABLE)
E-21	FOOD WARMER (IF APPLICABLE)
E-22	WELLS HDG2430G 30" GAS FLATTOP GRIDDLE
E-23	60" AVANTCO CBE-HC 60" 2 DRAWER REFRIGERATED CHEF BASE
E-24	GAS FLOOR FRYER
E-25	TYPE I EXHAUST HOOD W/ FIRE SUPPRESSION
E-26	AVANTCO 1 DOOR REFRIGERATED SANDWICH PREP TABLE
E-27	30"x72" WORK TABLE
E-28	GRAVITY FEED SLICER (IF APPLICABLE)
E-30	BEER DISPENSER (IF APPLICABLE)
E-31	ATOSA MGF8405GR UNDERCOUNTER FREEZER
E-32	BEVERAGE DISPENSER
E-33	POS - CASH REGISTER
E-34	MANITOWOC IT0450 ICE CUBE MACHINE
E-35	24"x42" WORK TABLE







172 REASER COURT PHONE: 440-365-1399 TOLL FREE PH: 800-715-1014 WWW.HOODMART.COM
ELYRIA, OHIO 44035 FAX: 440-365-2100 TOLL FREE FAX: 800-716-1214 SALES@HOODMART.COM



REVIEWED
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HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	① EXHAUST PLENUM					② SUPPLY PLENUM					HOOD CONSTRUCTION	
				TOTAL EXH. CFM	RISER(S)				TOTAL SUP. CFM	RISER(S)					
					DIA.	QTY.	CFM	S.P.		WIDTH	LENG.	QTY.	CFM		S.P.
1	MUA	96" NOM 96" OD	700 Deg	2000	16"	1	2000	0.5"	1600	12"	18"	2	800	0.25"	STAINLESS/ALU/MINIZED

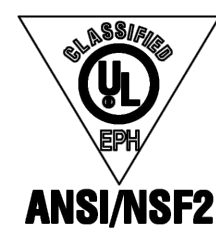
DUCT OPENING ARE
RECOMMENDED
SIZES
OPENINGS TO BE PUT
IN FIELD

8/21/2025

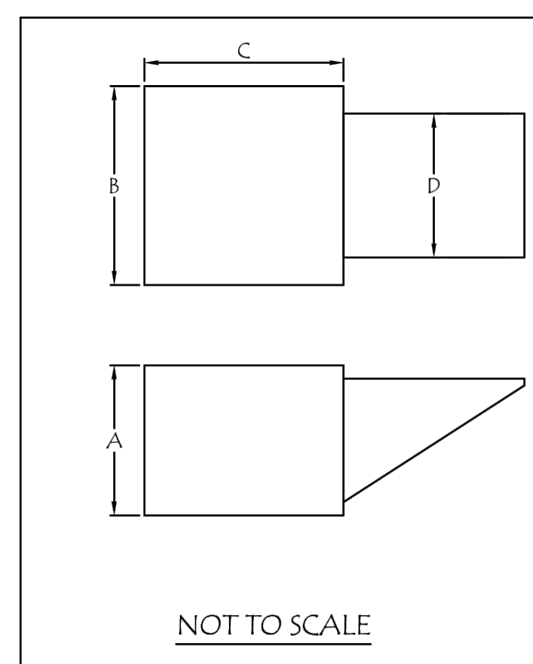


BE SAFE FIRE & SECURITY
6000 Levee Circle
Magonila, Ohio 44643
PH: 330-484-6000
FAX: 330-484-0006
STATE LICENSE # 53-1105

LLR PROFESSIONAL SERVICES
Coshocton, Ohio 43812 Phone:
740-502-2229 Email:
Larry andMollie@gmail.com
SD-1



172 REASER COURT PHONE: 440-365-1399 TOLL FREE PH: 800-715-1014 WWW.HOODMART.COM
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FAN MODEL	A	B	C	D	WT. LBS.
SF7	24"	22"	22"	19 1/2"	122 LBS.

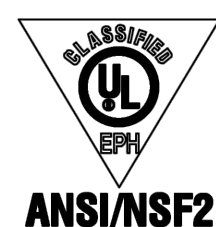
FAN UNIT NO.	FAN UNIT MODEL#	② SUPPLY FAN								
		MODEL	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLTS	FLA
1	SF7 SF-1	SF7	SF-1	1600	0.25"	1028	3/4	1	115/250	-

8/21/2025

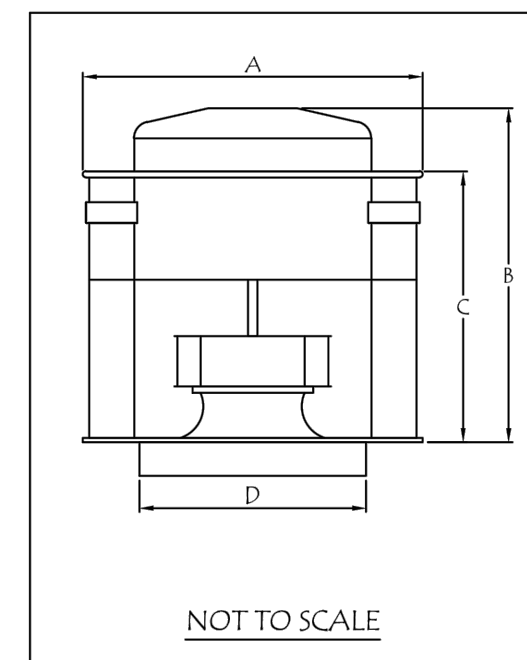


BE SAFE FIRE & SECURITY
6000 Levee Circle
Magonila, Ohio 44643
PH: 330-484-6000
FAX: 330-484-0006
STATE LICENSE # 53-1105

LLR PROFESSIONAL SERVICES
Coshocton, Ohio 43812 Phone:
740-502-2229 Email:
Larry andMollie@gmail.com
SD-3



172 REASER COURT PHONE: 440-365-1399 TOLL FREE PH: 800-715-1014 WWW.HOODMART.COM
ELYRIA, OHIO 44035 FAX: 440-365-2100 TOLL FREE FAX: 800-716-1214 SALES@HOODMART.COM



FAN MODEL	A	B	C	D	WT. LBS.
28D	26 1/2"	20 1/8"	16 1/2"	19" SQ	60 LBS.

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FAN UNIT NO.	FAN UNIT MODEL#	① EXHAUST FAN								
		MODEL	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLTS	FLA
1	28D EF-1	28D	EF-1	2000	0.75"	1625	1/2	1	115	5.6

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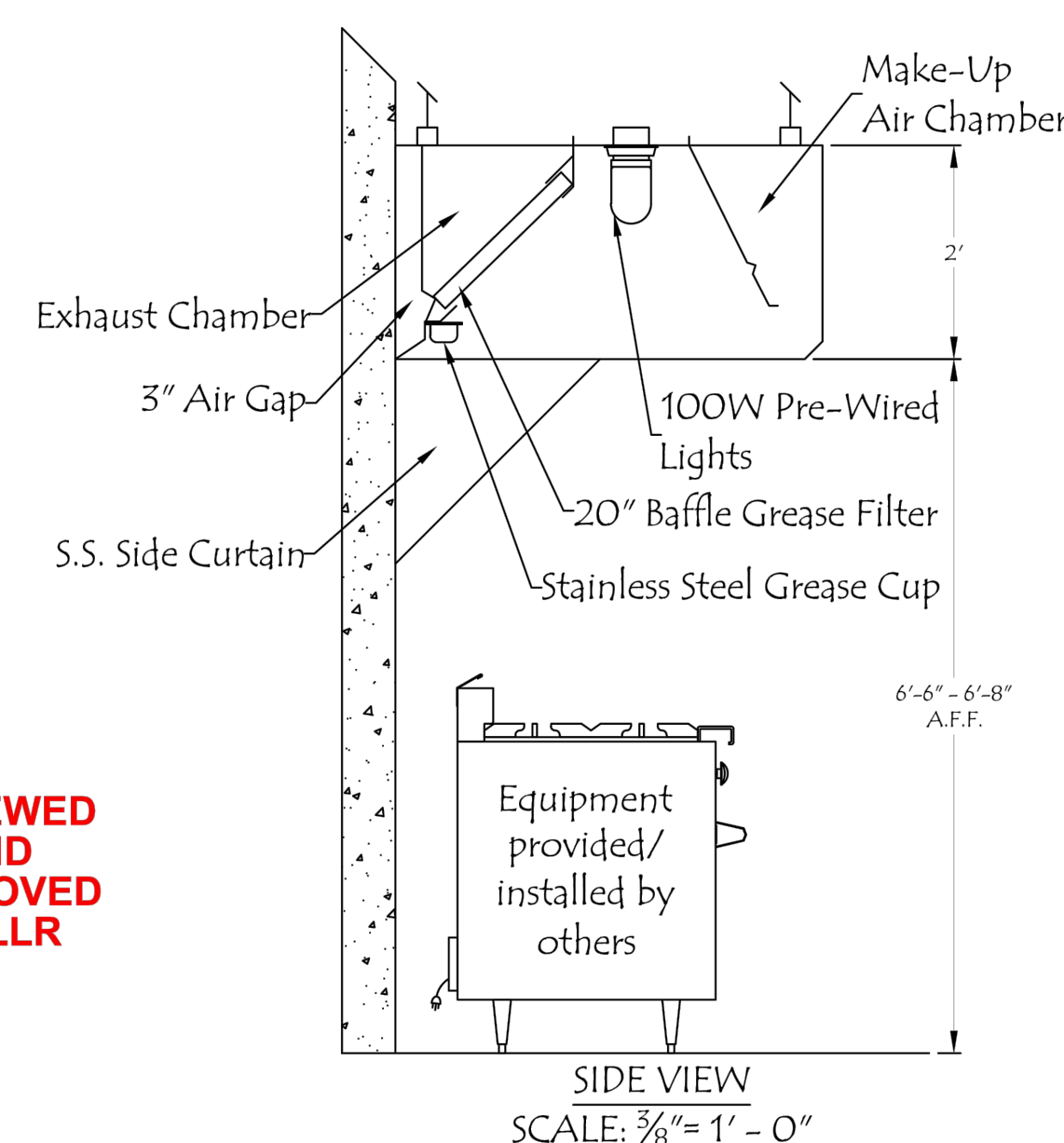


BE SAFE FIRE & SECURITY
6000 Levee Circle
Magonila, Ohio 44643
PH: 330-484-6000
FAX: 330-484-0006
STATE LICENSE # 53-1105

LLR PROFESSIONAL SERVICES
Coshocton, Ohio 43812 Phone:
740-502-2229 Email:
Larry andMollie@gmail.com
SD-2



172 REASER COURT PHONE: 440-365-1399 TOLL FREE PH: 800-715-1014 WWW.HOODMART.COM
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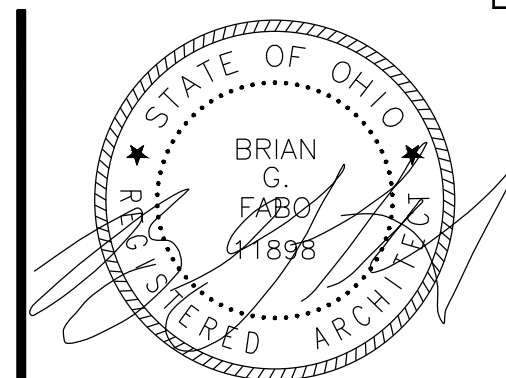
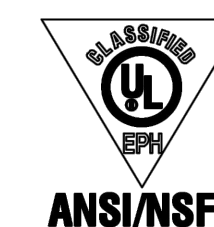
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BE SAFE FIRE & SECURITY
6000 Levee Circle
Magonila, Ohio 44643
PH: 330-484-6000
FAX: 330-484-0006
STATE LICENSE # 53-1105

LLR PROFESSIONAL SERVICES
Coshocton, Ohio 43812 Phone:
740-502-2229 Email:
Larry andMollie@gmail.com
SD-4



Brian G. Fabo, License #11898
Expiration Date 12/31/2025

12500 edgewater drive suite 905
lakewood, oh 44107
t: 216-241-6150
f: 216-395-0053

fabo
architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

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12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

fabo
architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

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M-1

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MECHANICAL GENERAL DEMOLITION NOTES:

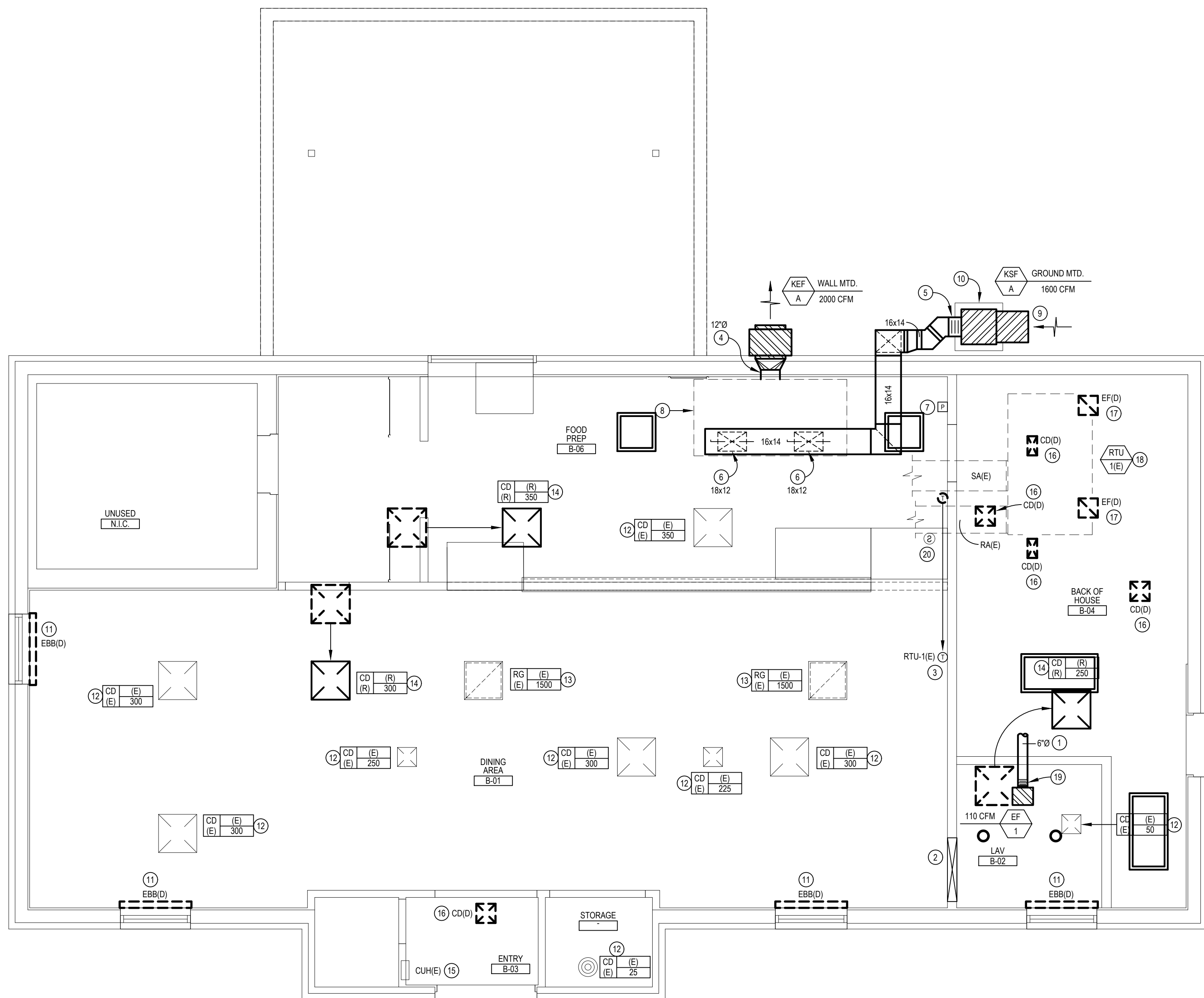
1. FIELD VERIFY LOCATIONS OF ALL EXISTING DUCTWORK, PIPING AND EQUIPMENT REQUIRING DEMOLITION. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND WITH THE OWNER.
2. EXISTING PIPING, DUCTWORK, TEMPERATURE CONTROLS, AND EQUIPMENT ARE TO BE REUSED IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED TO BE REMOVED (BRANCH DUCT TAKEOFFS).
3. THE HVAC DEMOLITION WORK SHALL BE PERFORMED EXCLUSIVELY BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED.
4. THE HVAC DEMOLITION WORK SHALL CONSIST OF THE FOLLOWING: DISCONNECT, REMOVAL, AND DISPOSAL OF FOLLOWING DUCTWORK, EQUIPMENT, SUPPORTS AND ACCESSORIES: 1) SUPPLY AIR DUCTWORK AND DIFFUSERS, 2) RETURN AIR DUCTWORK AND GRILLES, 3) ETC...
5. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL PATCHING AND SEALING OF WALLS, FLOORS, ETC... TO BE DONE BY THE GENERAL CONTRACTOR.
7. EXISTING EQUIPMENT DUCTWORK, DIFFUSERS, GRILLES, ETC... SHOWN ON THE DRAWING WERE DERIVED FROM FIELD OBSERVATIONS. HVAC CONTRACTOR IS STILL RESPONSIBLE TO FIELD VISIT SITE TO DETERMINE EXISTING CONDITIONS.
8. COORDINATE DEMOLITION WORK WITH LANDLORD.

MECHANICAL CODED NOTES:

- 1 EXTEND AND CONNECT NEW 6"Ø EXHAUST AIR DUCT INTO EXISTING EXHAUST AIR DUCT TO THE EXTERIOR THAT SERVED REMOVED TOILET ROOMS. FIELD VERIFY SIZE AND LOCATION OF EXISTING EXHAUST AIR DUCT PRIOR TO STARTING WORK.
- 2 COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE 1" UNDERCUT DOOR.
- 3 RELOCATE EXISTING ROOFTOP UNIT THERMOSTAT TO THIS LOCATION AND MOUNT 48" ABOVE FINISHED FLOOR.
- 4 TRANSITION 12"Ø KITCHEN HOOD EXHAUST DUCT COLLAR OFF BACK OF HOOD TO AND EXTEND THRU WALL AND CONNECT TO WALL MOUNTED KEF-A. NOTE: KITCHEN HOOD / EXHAUST DUCTWORK SHALL BE 16 GAUGE BLACK IRON WITH SEAM WELDED LIQUID TIGHT (PRE-FABRICATED GREASE DUCTWORK IS ACCEPTABLE). NOTE: MOUNT KEF-A A MINIMUM 10'-0" ABOVE FINISHED GRADE TO BOTTOM OF FAN, A MINIMUM 10'-0" TO ADJACENT PROPERTY LINE AND 10'-0" FROM ALL FRESH AIR INTAKES.
- 5 EXTEND FULL SIZE SUPPLY AIR DUCT FROM GROUND MOUNTED KSF-A COMPLETE WITH FLEXIBLE CONNECTION AT UNIT AND TRANSITION TO A 16x14 SUPPLY AIR DUCT, RUN UP EXTERIOR WALL EXPOSED AND PENETRATE SIDEWALL AS HIGH AS POSSIBLE TO RUN ABOVE INTERIOR CEILING. SEAL WALL PENETRATION WATER AND AIR TIGHT. COORDINATE DUCT ROUTING WITH EXISTING CONDITIONS.
- 6 18x12 SUPPLY AIR DUCT DROP DOWN OFF BOTTOM OF 16x14 SUPPLY AIR DUCT COMPLETE WITH MANUAL VOLUME DAMPER FOR BALANCING AND CONNECT TO KITCHEN HOOD MAKE-UP AIR CONNECTIONS.
- 7 ANSUL REMOTE PULL STATION, MOUNT 48" ABOVE FINISHED FLOOR.
- 8 96"x48" SHORT CYCLE TYPE I KITCHEN EXHAUST HOOD COMPLETE WITH FIRE SUPPRESSION SYSTEM. MOUNT BOTTOM OF HOOD AT 80" ABOVE FINISHED FLOOR.
- 9 MECHANICAL CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" FROM EXHAUST FANS, VENT THRU ROOF, ETC... AND FRESH SIR INTAKE HOOD.
- 10 COORDINATE WITH THE GENERAL CONTRACTOR TO MOUNT KSF-A ON CONCRETE HOUSEKEEPING PAD. MOUNT KSF-A ON PAD LEVEL IN ALL DIRECTIONS.
- 11 REMOVE EXISTING ELECTRIC BASEBOARD HEATER COMPLETELY. COORDINATE WITH THE ELECTRICAL CONTRACTOR TO DISCONNECT POWER AND THE GENERAL CONTRACTOR TO PATCH WALL.
- 12 EXISTING CEILING DIFFUSER TO REMAIN AND BE REUSED. CLEAN AND REFURBISH TO PROPER WORKING CONDITIONS. RE-BALANCE TO PROVIDE CFM AS NOTED.
- 13 EXISTING RETURN AIR GRILLE TO REMAIN AND BE REUSED. CLEAN AND REFURBISH TO PROPER WORKING CONDITIONS. RE-BALANCE TO PROVIDE CFM AS NOTED.
- 14 EXISTING CEILING DIFFUSER TO BE RELOCATED AS INDICATED. CLEAN AND REFURBISH TO PROPER WORKING CONDITIONS. RE-BALANCE TO PROVIDE CFM AS NOTED. EXTEND EXISTING BRANCH SUPPLY AIR DUCTWORK (SAME SIZE AS EXISTING) AS REQUIRED TO CONNECT TO RELOCATED CEILING DIFFUSER. FIELD VERIFY EXISTING CONDITIONS.
- 15 EXISTING CABINET UNIT HEATER TO REMAIN AND BE REUSED. MECHANICAL CONTRACTOR SHALL CLEAN AND REFURBISH TO PROPER WORKING CONDITIONS. REMOVE AND REPLACE WITH NEW (SIMILAR) AS REQUIRED.
- 16 REMOVE EXISTING CEILING DIFFUSER COMPLETELY. REMOVE ALL UNUSED BRANCH DUCTWORK, HANGERS, INSULATION, ETC., BACK TO SUPPLY AIR MAIN AND CAP TAKE-OFF AIR TIGHT. FIELD VERIFY EXISTING CONDITIONS.
- 17 REMOVE EXISTING CEILING MOUNTED EXHAUST FAN COMPLETELY. REMOVE ALL UNUSED DUCTWORK, HANGERS, CONTROLS, ETC., BACK TO MAIN DUCT TO THE EXTERIOR, DUCT TO THE EXTERIOR TO REMAIN AND BE REUSED. FIELD VERIFY EXISTING CONDITIONS.
- 18 EXISTING ROOFTOP UNIT TO REMAIN AND BE REUSED. MECHANICAL CONTRACTOR SHALL PERFORM OPERATIONAL CHECK AND REFURBISH TO PROPER WORKING CONDITION COMPLETE BUT NOT LIMITED TO CLEANING INSIDE AND OUTSIDE OF UNITS, CHANGE BELTS, CHANGE FILTERS, LUBRICATE MOTORS, LUBRICATE EVAPORATOR AND CONDENSING COILS, ETC. PERFORM A FULL TEST AND ANALYSIS TO SERVICE UNITS TO PROPER WORKING CONDITION, PROVIDE DOCUMENTATION CONCERNING THE CONDITION, PRESSURE READINGS AND AMP READINGS AND REPAIR/REPLACE ANY PARTS THAT MAY BE OPERATING, BUT WILL SOON NEED REPLACEMENT. GENERAL CONTRACTOR TO WARRANTY EXISTING UNIT FOR ONE (1) YEAR FROM DATE OF STORE OPENING. ADJUST OUTSIDE AIR DAMPER TO SUPPLY 750 CFM (25%) OUTSIDE AIR. FIELD VERIFY EXISTING CONDITIONS.
- 19 FLEXIBLE CONNECTION AT UNIT. (TYPICAL)
- 20 EXISTING RETURN AIR DUCT MOUNTED SMOKE DETECTOR COMPLETE WITH REMOTE TEST STATION AND AUDIO / VISUAL ALARMS TO REMAIN AND BE REUSED. MECHANICAL CONTRACTOR SHALL PERFORM OPERATIONAL CHECK AND REPAIR / REPLACE AS REQUIRED FOR PROPER OPERATION. FIELD VERIFY EXACT LOCATION AND EXISTING CONDITIONS.

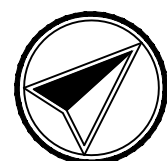
MECHANICAL GENERAL NOTES:

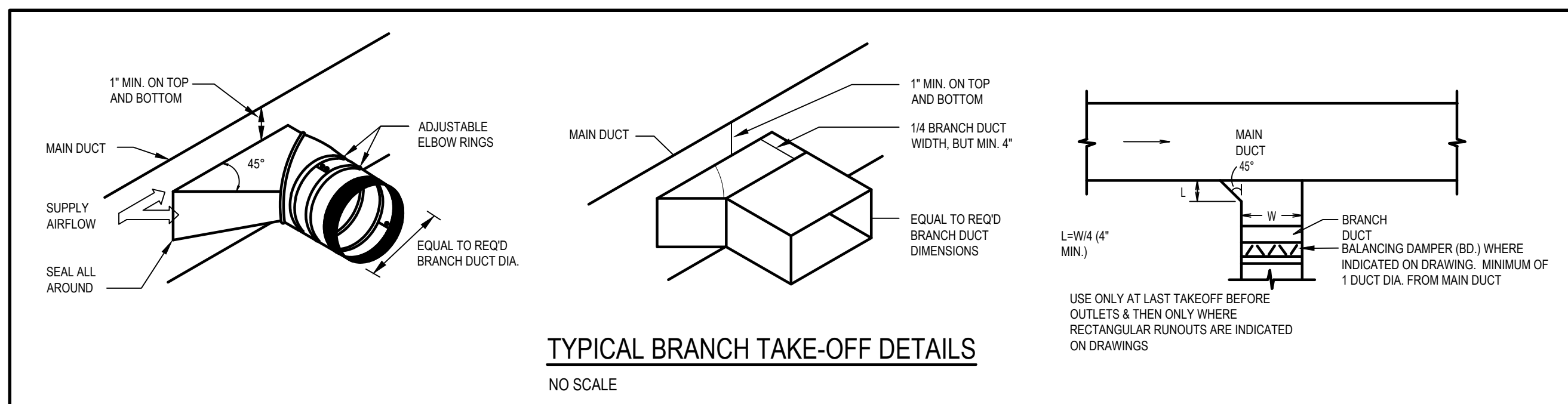
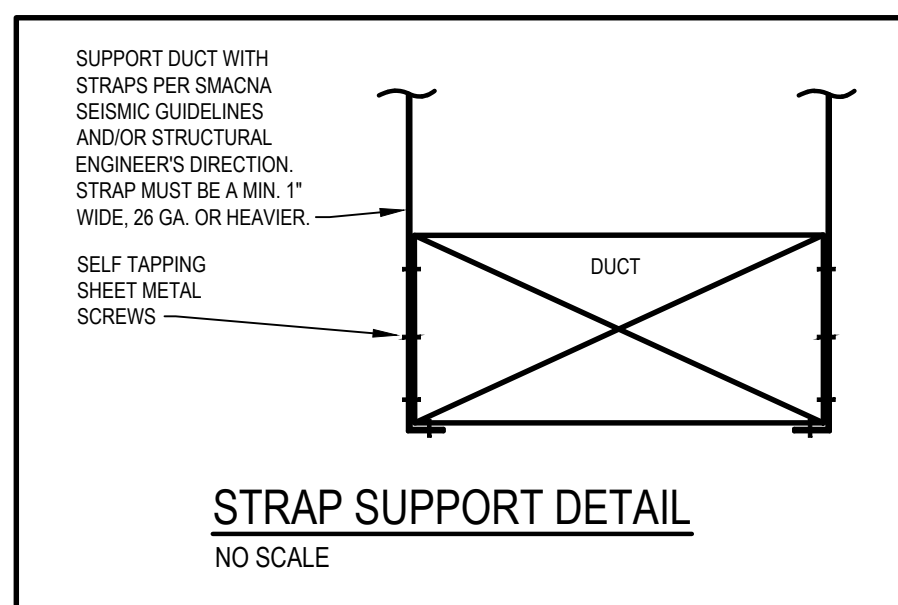
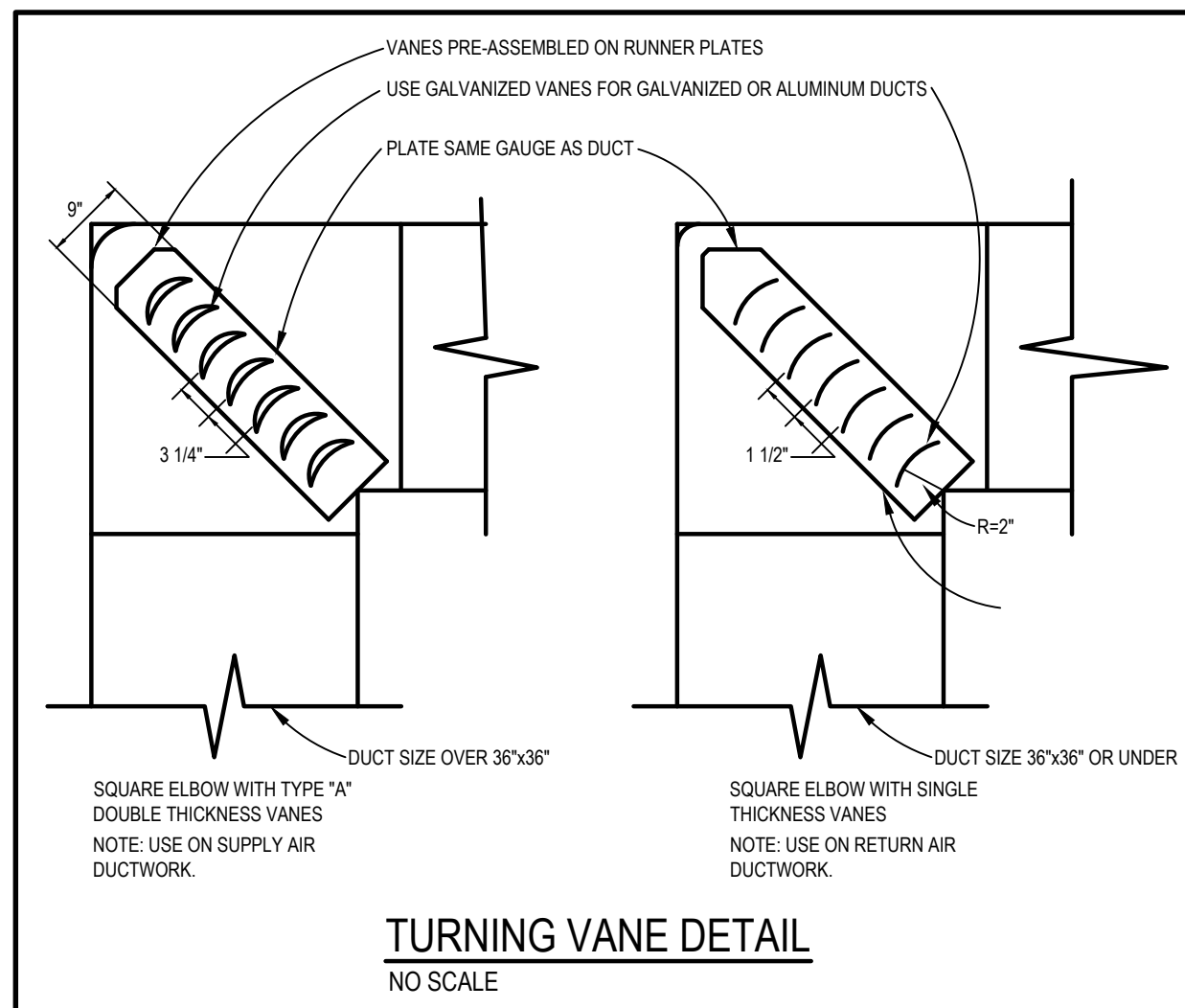
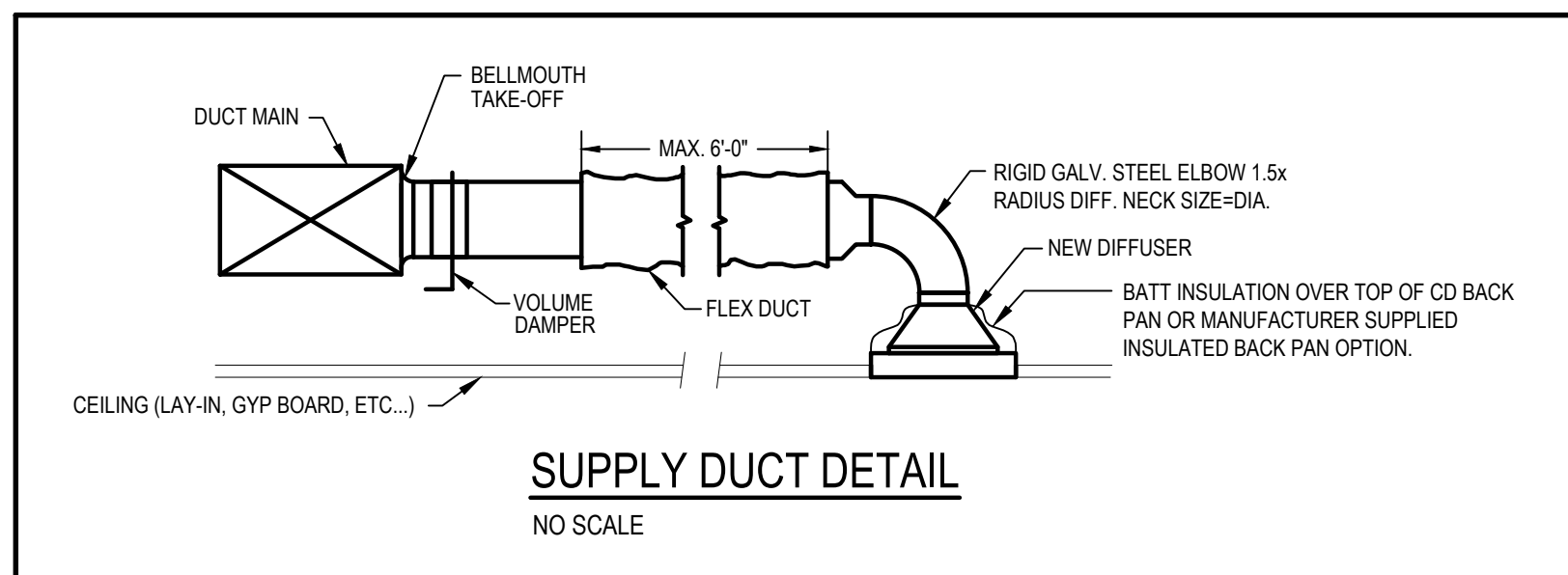
1. EQUIPMENT SHALL BE INSTALLED PER THE STATE CODE AND THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MORE STRICT REQUIREMENT SHALL APPLY.
2. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENT OF THE PIPING. HANGERS AND STRAPPING MATERIALS SHALL BE OF APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION.
3. MECHANICAL VENTILATION WILL BE PROVIDED AS INDICATED ON THE VENTILATION SCHEDULE.
4. THE MECHANICAL VENTILATION SHALL OCCUR DURING OCCUPIED TIMES AND WILL BE BALANCED BY A CERTIFIED AIR BALANCING COMPANY TO ENSURE AIRFLOW RATES DESIGNED.
5. SUPPLY AIR DUCTWORK SHALL BE CLASSIFIED FOR 2" WC.
6. FLEXIBLE AIR DUCT SHALL BE TESTED IN ACCORDANCE WITH UL 181. FLEXIBLE DUCT SHALL NOT EXCEED 4 FEET IN LENGTH.
7. ALL DUCTWORK JOINTS SHALL BE SECURELY FASTENED AND SEALED WITH MASTICS.
8. DUCTWORK SHALL BE SUPPORTED AT MAXIMUM 8 FEET ON CENTERS. FLEXIBLE DUCTS SHALL BE SUPPORTED PER MANUFACTURER'S INSTALLATION MANUAL.
9. REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL BALANCING DAMPERS AT BOTH THE DIFFUSER AND AT THE BRANCH DUCT.
10. DUCT INSULATION SHALL HAVE FLAME INDEX OF 25 OR LESS AND SMOKE INDEX OF 50 OR LESS. EXTERNAL DUCT INSULATION FACTORY INSULATED FLEXIBLE DUCT SHALL HAVE IDENTIFIED THE MANUFACTURER, R-VALUE, FLAME AND SMOKE INDEX.
11. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
12. PERFORM ALL WORK IN ACCORDANCE WITH THE, RULES & REGULATIONS OF THE APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTITLES.
13. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
14. IF CONFLICTS EXIST, PRIORITY OF LOCATION IN REFLECTED CEILING GRID SHALL BE AS FOLLOWS FROM HIGH TO LOW: LIGHTS, SPRINKLER, MECHANICAL, FIRE ALARM DEVICES.
15. THE MECHANICAL CONTRACTOR SHALL ACCURATELY COORDINATE THE SIZES AND LOCATION OF ALL DUCTWORK, PIPING, AND EQUIPMENT WITH THE LOCATION OF LIGHTING FIXTURES, STRUCTURAL MEMBERS, AND THE WORK OF ALL OTHERS TRADES TO PREVENT CONFLICT. DUCTWORK CONFLICTING WITH LIGHTING FIXTURE LOCATIONS SHALL BE MOVED AT THIS CONTRACTOR'S EXPENSE.
16. ALL DUCTWORK DIMENSIONS NOTED ON PLANS REFER TO THE CLEAR INSIDE OPENING REQUIRED.
17. MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR FOR FINAL EQUIPMENT BALANCING AND TESTING OF CONTROLS.



MECHANICAL PLAN

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





EXISTING ROOFTOP UNIT SCHEDULE (SHOWN FOR REFERENCE ONLY)																		
TAG	MANUFACTURER & MODEL NUMBER	NOMINAL TONNAGE	CFM	ESP (IN.)	OUTSIDE AIR	HEATING CAPACITY			GROSS COOLING CAPACITY				ELECTRICAL DATA			WEIGHT (LBS)	REMARKS	
						INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	EAT DBWB	TOTAL (MBH)	SENSIBLE (MBH)	EER	AMBIENT TEMP.	S/A FAN HP VOLTAGE	208 / 230 MCA			208 / 230 MOCP
RTU (E)	TRANE YSC090A3RHA1VF	7.5	3000	-	750	200 / 140	160 / 112	80	80/67	95	71.8	10.1 EER	95	208/230V 3 PH	42.7	50	--	EXISTING REUSED FROM 2005

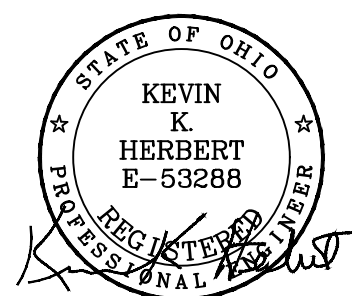
AIR BALANCE SCHEDULE					
TAG	SUPPLY	RETURN	OUTSIDE	EXHAUST	NET
RTU(E)	3000	2250	750	-	+750
KSF-A	-	-	1600	-	+1600
KEF-A	-	-	-	2000	-2000
EF-1	-	-	-	110	-110
TOTALS	3000	2250	2350	2110	+240

FAN SCHEDULE											
TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	MOTOR HP & VOLTAGE	FAN RPM	FAN TYPE	MAX. SOUND LEVEL	WEIGHT (LBS)	REMARKS
EF 1	CONSCIOT FAN / LIGHT COMBO	UNISEX RESTROOM	EXHAUST W/ LIGHT	110	.25	40 WATTS 120V, 1PH	-	CEILING MOUNTED	1.0 SONES	-	SEE NOTES BELOW
NOTES: PROVIDE WITH THE FOLLOWING ITEMS: 1. DISCONNECT SWITCH 2. GRAVITY BACKDRAFT DAMPER 3. SWITCH WIROOM LIGHT 4. LED LIGHT AND 2700K NIGHTLIGHT 5. PLASTIC CEILING GRILLE WITH LIGHT LENS SIMILAR MANUFACTURERS: COOK, PENN, JENNAIR											

DUCTWORK SCHEDULE				
DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	DUCT MATERIAL	INSULATION
CONCEALED SUPPLY AIR DUCTWORK	2"	A	GALVANIZED STEEL	2" DUCT WRAP
EXPOSED SUPPLY AIR DUCTWORK	2"	A	GALVANIZED STEEL	1-1/2" DUCT LINER OR PRE-FAB DOUBLE WALL INSULATED
MAKE-UP AIR DUCTWORK	2"	A	GALVANIZED STEEL	2" DUCT WRAP
RETURN AIR DUCTWORK	1"	A	GALVANIZED STEEL	1-1/2" DUCT LINER
GENERAL EXHAUST AIR DUCTWORK	1"	A	GALVANIZED STEEL	-
EXTERIOR DUCTWORK	REFER TO SPECIFICATIONS			
NOTE: 1. ALL DUCTWORK SIZES ARE AIRWAY DIMENSIONS 2. CONCEALED DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-6.4 DUCT WRAP.				

VENTILATION AIR REQUIREMENT						
EQUIPMENT TAG	AREA SERVED	OCCUPANT LOAD	REQUIRED VENTILATION	O.A. REQ'D (CFM)	O.A. SUPPLIED (CFM)	REMARKS
RTU 1	DINING AREA (B-01)	34 PEOPLE (780 SF)	((0.18 CFM x SF) + (7.5 CFM x PERSON)) x 1.25	494	494	-
	ENTRY (B-02)	32 SF	4% FLOOR AREA	2 SF	42 SF	COMPLIES WITH NATURAL VENTILATION VIA DOUBLE ENTRY DOOR.
	BACK OF HOUSE (B-04)	2 PEOPLE (270 SF)	((0.12 CFM x SF) + (7.5 CFM x PERSON)) x 1.25	59	63	-
	FOOD PREP (B-06)	3 PEOPLE (375 SF)	((0.12 CFM x SF) + (7.5 CFM x PERSON)) x 1.25	85	175	NOTE: 70 CFM PER SF EXHAUST (193 CFM) 2000 CFM EXHAUST PROVIDED
	STORAGE (-)	26 SF	((0.12 CFM x SF) x 1.25	4	6	-
TOTALS				642	750	-
EF 1	LAV (B-02)	1 WC	70 CFM EXHAUST PER WC	70 CFM EXH	110 CFM EXH	QUANTITIES NOTED ARE EXHAUSTED. NOTE: INTERMEDIATE OPERATION. NOTE: 12 CFM O.A. PROVIDED VIA RTU-1(E).
NOTE: OHIO MECHANICAL CODE BREATHING ZONE OUTDOOR AIR FLOW (CFM) $Vbz = RpPz + RaAz \times 1.25$ WHERE: Az = ZONE FLOOR AREA Pz = POPULATION Rp = TABLE 403.3 OUTDOOR AIR PER PERSON Ra = TABLE 403.3 OUTDOOR AIR PER AREA						

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SA	SUPPLY AIR	EC	ELECTRICAL CONTRACTOR
EA	EXHAUST AIR	PC	PLUMBING CONTRACTOR
CD	CEILING DIFFUSER	EF	EXHAUST FAN / LIGHT COMBINATION
OA	OUTSIDE AIR		FLEXIBLE DUCT (6'-0" MAX. LENGTH)
RA	RETURN AIR		FLEXIBLE DUCT CONNECTOR
RG	RETURN GRILLE		DUCT W/ INTERNAL LINING
RTU	ROOFTOP UNIT		MANUAL VOLUME DAMPER
MC	MECHANICAL CONTRACTOR		CHANGE IN ELEVATION RISE (R) OR DROP (D)
GC	GENERAL CONTRACTOR		ELBOW W/ DBL THICKNESS TURNING VANES
⊕	THERMOSTAT		FRESH RETURN/EXHAUST AIR DUCT
(TYP)	TYPICAL		SUPPLY AIR DUCT
KEF	KITCHEN EXHAUST FAN		UNDERCUT DOOR
KSF	KITCHEN HOOD SUPPLY FAN	(E)	EXISTING
(R)	RELOCATE	(D)	DEMO (TO BE REMOVED)



12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

fabo
architecture

ORIGINAL STEAKS AND HOAGIES

210 E305TH STREET WILLOWICK, OHIO 44095

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POINT ONE Design LTD.
Consulting Engineers

M-2
sheet No.
job No. FA25038



12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053



ORIGINAL STEAKS AND HOAGIES

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MECHANICAL GENERAL

- A. THE CONTRACTOR FOR THIS WORK IS REFERRED TO "INSTRUCTIONS TO BIDDERS" AND "GENERAL CONDITIONS" AND "SPECIAL CONDITIONS" AS PART OF THIS CONTRACT.
- B. CONTRACTOR ALSO REFERRED TO ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER OWNER DRAWINGS PERTAINING TO PROJECT. ALL OF ABOVE MENTIONED DRAWINGS, AS WELL AS THEIR RESPECTIVE SPECIFICATIONS, ARE A PART OF CONTRACT DOCUMENTS.
- C. MECHANICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER, FURNISH ANY MATERIAL OR LABOR CALLED FOR IN ONE EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH.
- D. INSTALL AND CONNECT EQUIPMENT, SERVICES AND MATERIALS IN ACCORDANCE WITH BEST ENGINEERING PRACTICE AND ACCORDANCE WITH VARIOUS MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. FURNISH AND INSTALL COMPLETE AUXILIARY PIPING, VALVES, WATER SEALS, ELECTRICAL CONNECTIONS, ETC., RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION.
- E. FURNISH MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS OR CALLED FOR IN SPECIFICATIONS BUT WHICH IS OBVIOUSLY A COMPONENT PART OF AND NECESSARY TO COMPLETE WORK OF SIMILAR CHARACTER.
- F. THIS CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS OR LICENSES REQUIRED TO CARRY OUT THIS WORK. HE SHALL PAY FOR ALL CHARGES MADE BY INSPECTION. NOTE: ALL CONTRACTORS SHALL BE LICENSED IN THE COUNTY, CITY, ETC. TO PERFORM ALL NEW WORK.
- G. THIS CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND ALL LOCAL LEGAL REQUIREMENTS. ALL LAWS, RULES AND REGULATIONS OF STATE AND LOCAL GOVERNING AGENCIES SHALL BE CONSIDERED A PART OF THESE SPECIFICATIONS AS FULLY AS IF WRITTEN HEREIN. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY CHANGES NECESSARY FOR CODE COMPLIANCE REGARDLESS OF THE METHOD OF INSTALLATION SHOWN ON THE DRAWINGS OR SPECIFIED.
- H. THIS CONTRACTOR SHALL TAKE OUT PERMIT WITH PROVISIONS OF INSPECTION BEFORE STARTING ANY WORK. FEE FOR SAME SHALL BE PART OF THIS CONTRACT.
- I. WHEN WORK IS COMPLETED, THIS CONTRACTOR SHALL FURNISH TO THE ARCHITECT CERTIFICATES OF APPROVAL FROM THE RESPONSIBLE INSPECTION AGENCIES BEFORE FINAL PAYMENT OF CONTRACT WILL BE ALLOWED.
- J. TESTING OF ALL WORK UNDER THIS CONTRACT SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL APPARATUS, EQUIPMENT, FIXTURES, ETC., SHALL FULLY MEET THE REQUIREMENTS OF THESE SPECIFICATIONS AND DRAWINGS.
- K. THE BID SHALL COMPREHEND THE FURNISHING AND INSTALLING OF MATERIAL AND EQUIPMENT, EXACTLY AS SPECIFIED OR SHOWN AS SIMILAR BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SUBMITTING ON SIMILAR EQUIPMENT WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CHANGES IN ARCHITECTURAL, STRUCTURAL, MECHANICAL AND/OR ELECTRICAL TRADES DUE TO THE SIMILAR EQUIPMENT CHARACTERISTICS SUBMITTED.
- L. INSTALL FINAL APPLICATION OF LUBRICATION OIL, REFRIGERANT CHARGE, AND ALL OTHER SUPPLIES NECESSARY TO PLACE THE EQUIPMENT IN OPERATION.
- M. CONTRACTOR SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.
- N. ALL POWER WIRING OF MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. FURNISH THE ELECTRICAL CONTRACTOR WIRING DIAGRAMS FOR ALL ELECTRICALLY POWERED EQUIPMENT PROVIDED WITH THE CONTRACT WHICH SHALL INDICATE THE SERVICE REQUIRED AND ELECTRIC LOAD INVOLVED.
- O. THIS CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS, AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THIS CONTRACT INVOLVES REMODELING OF EXISTING BUILDING AND THEREFORE SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING AND SEWERS BEFORE STARTING WORK.
- P. SUBMIT SHOP DRAWINGS, CATALOG SHEETS FOR EQUIPMENT, FIXTURES, DUCTWORK LAYOUT, WIRING DIAGRAMS, ETC., IN PDF FORMAT TO THE ARCHITECT FOR REVIEW. EACH CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE APPROVED SHOP DRAWINGS TO ALL OTHER TRADES AFFECTED BY HIS WORK, EQUIPMENT, ETC., FOR COORDINATION.
- Q. ASSEMBLE AND SUBMIT TO THE ARCHITECT FOR SUBSEQUENT SUBMISSION TO THE OWNER, TWO (2) COMPLETE SETS OF OPERATIONS MANUALS AND MAINTENANCE REQUIREMENTS, COPY OF FIXTURE CUTS WITH MANUFACTURER'S NAME AND MODEL NUMBER, EQUIPMENT WARRANTIES, ETC., FOR EACH ITEM FURNISHED.
- R. ALL CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES (GENERAL CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, ETC.) AFFECTED BY THAT PIECE OF EQUIPMENT (ROOF OPENINGS, WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC.) PRIOR TO ORDERING EQUIPMENT AND AGAIN PRIOR TO INSTALLATION (ROOF TOP EQUIPMENT PRIOR TO LIFTING ONTO ROOF). NO EXTRA COMPENSATION WILL BE APPROVED IF COORDINATION IS NOT PERFORMED BY EACH RESPECTIVE CONTRACTOR AND SUBCONTRACTOR.
- S. CONTRACTOR HAS EXAMINED THE CONTRACT DOCUMENTS AND REPRESENTS TO OWNER THAT THE CONTRACT DOCUMENTS ARE COMPLETE AND SUFFICIENT AND INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK FOR THE CONTRACT SUM. CONTRACTOR FURTHER REPRESENTS THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS BECOME FAMILIAR WITH THE ACCESS REQUIREMENTS AND OTHER CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS RECEIVED ALL CLARIFICATIONS NEEDED BY CONTRACTOR TO ASSURE ITSELF THAT THE WORK CAN BE PERFORMED FOR THE CONTRACT SUM. IF THERE IS ANY INCONSISTENCY IN THE QUALITY OR QUANTITY OF WORK REQUIRED UNDER THE CONTRACT DOCUMENTS, OR SHOULD THE DRAWINGS AND SPECIFICATIONS APPEAR TO BE IN DISAGREEMENT WITH EACH OTHER RELATIVE TO THE QUALITY OR QUANTITY OF WORK REQUIRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY UNLESS WRITTEN INSTRUCTIONS ARE OTHERWISE FURNISHED TO CONTRACTOR BY OWNER.
- T. DEVIATIONS FROM THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN OWNER OR ARCHITECT CONSENT WILL BE AT RISK TO THE G.C. ANY EFFORT MADE BY THE ARCHITECT AND/OR ENGINEER TO MODIFY THE CONSTRUCTION DOCUMENTS OR LETTERS OF RESPONSIBILITY FOR APPROVAL BY INSPECTORS DUE TO WORK PERFORMED BY CONTRACTOR OTHER THAN THE ORIGINAL DESIGN WILL BE BILLED TO CLIENT WHO WILL BACK CHARGE TO G.C. AS A DEDUCT FROM THEIR PAYMENTS.
- U. NOTE: THE MECHANICAL AND PLUMBING CAD FILES OF THE CONSTRUCTION DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF POINT ONE DESIGN, LLC, AND WILL NOT BE AVAILABLE FOR THE CONSTRUCTION PHASE UNLESS MET WITH A REDUCTION IN COST TO THE OWNER AND/OR PURCHASED AT A NOMINAL RATE PER DRAWING (TO BE NEGOTIATED).
- V. FIRESTOPPING
1. MANUFACTURERS: DOW CORNING CORP., HILTI CORP., 3M FIRE PROTECTION PRODUCTS, SPECIFIED TECHNOLOGY INC., OR METRAFLEX.
 2. PRODUCT DESCRIPTION: DIFFERENT TYPES OF PRODUCTS BY MULTIPLE MANUFACTURERS ARE ACCEPTABLE AS REQUIRED TO MEET SPECIFIED SYSTEM DESCRIPTION AND PERFORMANCE REQUIREMENTS; PROVIDE ONLY ONE TYPE FOR EACH SIMILAR APPLICATION.
 - a. SILICONE FIRESTOPPING ELASTOMERIC FIRESTOPPING: SINGLE OR MULTIPLE COMPONENT SILICONE
 - b. ELASTOMERIC COMPOUND AND COMPATIBLE SILICONE SEALANT.
 - c. FOAM FIRESTOPPING COMPOUNDS: SINGLE OR MULTIPLE COMPONENT FOAM COMPOUND.
 - d. FORMULATED FIRESTOPPING COMPOUND OF INCOMBUSTIBLE FIBERS: FORMULATED COMPOUND MIXED WITH INCOMBUSTIBLE NON-ASBESTOS FIBERS.
 - e. FIBER STUFFING AND SEALANT FIRESTOPPING: COMPOSITE OF MINERAL FIBER STUFFING INSULATION WITH SILICONE ELASTOMER FOR SMOKE STOPPING.
 - f. MECHANICAL FIRESTOPPING DEVICE WITH FILLERS: MECHANICAL DEVICE WITH INCOMBUSTIBLE FILLERS AND COVERED WITH SMOKE PROTECTANT WITH 304 STAINLESS STEEL JACKET, JOINED WITH COLLARS, PENETRATION SEALED WITH FLANGED STOPS.
 - g. INTUMESCENT FIRESTOPPING: INTUMESCENT PUTTY COMPOUND WHICH EXPANDS ON EXPOSURE TO SURFACE HEAT GAIN.
 - h. FIRESTOP PILLOWS: FORMED MINERAL FIBER PILLOWS.

PLUMBING SPECIFICATIONS

- A. CONNECT SEWER, GAS, VENTS AND WATER LINES AS INDICATED ON THE PLUMBING PLANS. DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICE CONNECTIONS BEFORE STARTING THE INSTALLATION OF ANY WORK. COORDINATE ALL WORK WITH OTHER TRADES. THE GENERAL CONTRACTOR AND THE OWNER'S FIELD REPRESENTATIVE.
- B. PLUMBING WORK SHALL CONFORM TO GOOD ENGINEERING PRACTICE AND BE IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES AND OWNER'S REQUIREMENTS. PLUMBING CONTRACTOR SHALL BE LICENSED IN THIS AREA TO PERFORM THE NEW WORK.
- C. SANITARY SEWERS, VENTS AND STORM INSIDE OF THE BUILDING SHALL BE SERVICE WEIGHT, CAST IRON, NO HUB WITH COMPRESSION TYPE JOINTS. ABS OR PVC SCHEDULE 40 PIPING SHALL BE AS APPROVED BY THE LOCAL AUTHORITY AND OWNER IN CONCEALED (UNDERFLOOR) LOCATIONS.
- D. ALL COLD AND HOT WATER LINES SHALL BE TYPE 1/2" COPPER WITH #6-2 TIN ANTIMONY (NO LEAD) SOLDER. NOTE: PROGRESS IS AN APPROVED METHOD OF COPPER PIPE FITTINGS.
- E. GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. GAS PIPING COMPOUND AT JOINTS SHALL BE PER NFPA BULLETIN #54 AND LOCAL CODES. GAS VALVES SHALL BE UL LISTED FOR GAS SERVICE SUCH AS DEZURIXX MODEL S-425 FOR 2" AND LESS. NOTE: MEGAPRESS IS AN APPROVED METHOD OF GAS PIPE FITTINGS.
- F. INSULATE ALL HOT, RETURN HOT AND COLD WATER PIPING (BELOW OR ABOVE FLOOR SLAB) WITH NONCOMBUSTIBLE ARMSTRONG'S "ARMAFLEX" TYPE II FOAM INSULATION WITH SEALED JOINTS. PIPING LOCATED ABOVE FLOOR SLAB CAN ALSO BE INSULATED WITH OWENS CORNING FIBERGLASS ASJSSLS-II HEAVY DENSITY PIPE INSULATION WITH VAPOR BARRIER AND SEALED JOINTS (NOTE: FIBERGLASS INSULATION IS NOT ACCEPTABLE FOR BELOW FLOOR SLAB). INSULATION THICKNESS SHALL BE AS FOLLOWS:
- | | |
|--|----------------|
| • COLD WATER PIPING UP TO 1-1/4" | 1/2" THICKNESS |
| • HOT WATER PIPING UP TO 1-1/4" | 1" THICKNESS |
| • RETURN HOT WATER PIPING UP TO 1-1/4" | 1" THICKNESS |
- G. PLUMBING CONTRACTOR SHALL INSTALL SHOCK ABSORBERS IN PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER, WHERE NECESSARY. BRANCH PIPING SHALL HAVE ACCESSIBLE SERVICE VALVES. PROVIDE SHUT-OFF VALVES IN THE SUPPLY PIPING TO EVERY FIXTURE.
- H. PLUMBING CONTRACTOR SHALL PROVIDE 1 SET OF AS-BUILT DRAWINGS TO THE OWNER.
- I. CHLORINATION OF WATER PIPING: THE DOMESTIC WATER PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL CONTAMINATED WATER DOES NOT APPEAR AT THE OUTLET AND SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR A PERIOD AS PRESCRIBED BY THE CODE BEFORE FLUSHING. THE SYSTEM SHALL BE FLUSHED COMPLETELY WITH CLEAR WATER UNTIL ALL RESIDUAL CHLORINE CONTENT IS REMOVED. CHLORINATION SHALL BE PERFORMED AFTER ALL PIPING AND FINAL CONNECTIONS AND PRESSURE TESTING HAS BEEN COMPLETED. IF, AFTER THE PIPES HAVE BEEN CHLORINATED, THE PIPES HAVE TO BE DISMANTLED, THE CHLORINATION PROCESS MUST BE REPEATED.
- J. LABOR SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY MECHANICS SKILLED IN THEIR PARTICULAR TRADE. PIPE AND EQUIPMENT SHALL BE INSTALLED SQUARE AND PLUMB AND ACCESSIBLE FOR PROPER OPERATION AND SERVICE.
- K. CUTTING OR PATCHING NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- L. PROVIDE ANY NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED AND WELL TAMPED TO GRADE WITH APPROVED MATERIAL.
- M. PIPING
1. ALL PIPING SHALL BE RUN CONCEALED EXCEPT WHERE SHOWN OTHERWISE ON DRAWINGS.
 2. VALVES, TRAPS, CHECK VALVES AND OTHER APPARATUS SHALL BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION.
 3. SOIL WASTE, STORM, VENT, OFFSETS AND HOUSE DRAINS SHALL BE INSTALLED WITH A MINIMUM UNIFORM GRADE OF 1/8" TO THE FOOT FOR 3" THRU 6" PIPE AND 1/4" TO THE FOOT FOR 2-1/2" AND LESS.
 4. HOT AND COLD WATER LINES SHALL BE AT LEAST 12" APART WHERE PIPING IS PARALLEL.
 5. ESCUTCHEON PLATES SHALL BE PROVIDED WHERE ALL PIPE PASSES THROUGH A FINISHED WALL.
 6. CONNECTIONS FROM STEEL TO COPPER PIPING SHALL BE MADE WITH DIELECTRIC TYPE UNIONS, EPCO OR OTHER APPROVED TYPE.
- O. COPPER PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 7'-0" AND AT EACH CHANGE IN HORIZONTALS OR VERTICAL. HANGERS SHALL SUPPORT PIPING AT PIPE WITH INSULATION OVER TOP OR WITH METAL SLEEVE TO PROTECT INSULATION FROM BEING CRUSHED.
- | | |
|-------------------|-------------|
| NOMINAL PIPE SIZE | METAL GAUGE |
| 0" - 1-1/2" | 20 |
| 2" - 3" | 16 |
| 3-1/2" AND UP | 14 |
- P. CLEAN OUT ALL LINES, ADJUST ALL VALVES AND CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT. ROUT OUT ALL EXISTING SANITARY SEWERS BEING TIED INTO TO INSURE THE PROPER FLOW. PLUMBING CONTRACTOR TO FURNISH AND INSTALL CLEAR SILICONE CAULK AROUND PERIMETER OF PLUMBING FIXTURES.
- Q. AFTER THE PLUMBING PIPING HAS BEEN INSTALLED, INSPECTED AND APPROVED, THE PIPING SYSTEM SHALL BE FLUSHED TO REMOVE ANY FOREIGN MATTER FROM THE PIPES.
- R. ALL PARTS OF THE PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE GUARANTEE PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.
- S. NOTE: ALL PIPE INSULATION (HOT, RETURN HOT AND COLD PIPE INSULATION, ROOF DRAIN SUMPS, STORM LEADERS AND DOWNSPOUTS) SHALL CONFORM TO THE FIRE AND SMOKE RATES BELOW:
- | |
|------------------------------|
| FLAME SPREAD - 25 OR LESS |
| SMOKE DEVELOPED - 50 OR LESS |
- T. GENERAL REQUIREMENTS OF PLUMBING FIXTURES AND TRIM:
1. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL STOPS, TRAPS, ESCUTCHEONS, CONNECTIONS, ETC., AS NECESSARY FOR A COMPLETE INSTALLATION.
 2. TERMINATE ALL WATER ROUGH-INS WITH SHUT-OFF VALVES BEFORE CONNECTING EQUIPMENT AND FIXTURES.
 3. PURGE ALL WATER LINES BEFORE MAKING FINAL CONNECTIONS.
 4. FLASH AND COUNTERFLASH ALL OPENINGS THRU ROOFS WITH APPROVED ROOFING MATERIALS BUILT A MINIMUM OF 10" INTO THE ROOFING IN ALL DIRECTIONS FROM THE OUTSIDE OF THE PIPE.
 5. WATER AND WASTE LINES TO BE ROUGHED INSIDE WALLS; EXTEND WATER AND WASTE LINES OUT OF WALLS TO EQUIPMENT AND FIXTURES.
 6. WHERE THE WORD "FURNISH" OR "INSTALL" APPEARS FOR THE PLUMBING CONTRACT, IT SHALL BE INTERPRETED TO MEAN THE PLUMBING CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SUPPLIES NECESSARY TO INSTALL AND PLACE IN OPERATION CONDITION.
 7. GENERAL WATER PRESSURE SHALL NOT EXCEED 60 PSI. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES FOR WATER AS REQUIRED.
- U. PLUMBING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS.

PLUMBING SPECIFICATIONS (CONTINUED)

- U. KITCHEN EQUIPMENT
1. IN GENERAL, KITCHEN SINKS AND KITCHEN EQUIPMENT, ETC., ARE TO BE PROVIDED UNDER ANOTHER DIVISION OF THE SPECIFICATIONS OR BY THE OWNER. INCLUDED WITH THESE FIXTURES ARE THE SUPPLY FITTINGS AND TAILPIECES.
 - a. THE PLUMBING CONTRACTOR SHALL PROVIDE TRAPS, STOPS, SUPPLY AND WASTE FITTINGS AND SHALL CONNECT SUCH FIXTURES TO THE PLUMBING SYSTEM.
 - b. THE PLUMBING CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH THE OTHER CONTRACTORS FURNISHING SUCH FIXTURES AND EQUIPMENT AND SHALL ROUGH-IN IN ACCORDANCE WITH THEIR WRITTEN INSTRUCTIONS. NO ROUGHING-IN SHALL PROCEED WITHOUT SUCH WRITTEN DIRECTION.
 - c. PROVIDE SUPPLIES AND STOPS FOR EACH FIXTURE AND EQUIPMENT ITEM. STOPS SHALL BE KOHLER K-7664 OR K-7670, SIZE AND TYPE TO BEST SUIT THE APPLICATION. SUPPLIES TO BE FLEXIBLE CHROME PLATED, GENERALLY PROVIDE KOHLER K-9022 CAST BRASS CHROME PLATED WITH PLUG WHEREVER POSSIBLE. EXCEPT FOR LARGER SIZES AND WHERE SPECIAL TRAPS ARE REQUIRED OR HEREINAFTER SPECIFIED, MULTIPLE COMPARTMENT SINKS SHALL BE INDIVIDUALLY TRAPPED.
 - d. ALL ROUGH-IN SHOULD BE STUBBED IN WALLS WHEREVER POSSIBLE.
 - e. ALL UNINSULATED WATER PIPING, VALVES AND FITTINGS FOR EQUIPMENT WHICH IS FREESTANDING OF OPEN TUBULAR CONSTRUCTION OR EXPOSED TO PUBLIC VIEW, SHALL BE CHROME PLATED. ALL OTHER UNINSULATED PIPING AND FITTINGS SHALL BE FINISHED WITH HIGH TEMPERATURE ALUMINUM PAINT.
 - f. PROVIDE SERVICE VALVES SIX INCHES ABOVE FINISHED FLOOR OR OUT OF WALL ON WATER CONNECTIONS TO EACH PIECE OF EQUIPMENT, WITH C.P. WALL ESCUTCHEONS ON ALL SERVICE LINES, INCLUDING RESTROOMS (WATER AND WASTE).
 - g. PROVIDE VACUUM BREAKERS ON WATER CONNECTIONS TO EQUIPMENT WHERE REQUIRED BY CODE AND NOT FURNISHED AS PART OF THE EQUIPMENT.
 - h. INSTALL SINK TRIM AS SPECIFIED.
 1. THE CONTRACTOR SHOULD RUN ALL WASTE, VENT AND WATER PIPING CONCEALED WHEREVER POSSIBLE. ALL HORIZONTAL PIPING LINES AS EXTENDED AND CONNECTED TO EQUIPMENT SHOULD BE RUN LESS THAN SIX INCHES ABOVE FLOOR.
- DEMOLITION NOTES:
1. PLUMBING CONTRACTOR SHALL REMOVE ALL EXPOSED SANITARY, VENT, WATER PIPING, ETC., NOT REUSED FOR THE NEW SPACE LAYOUT.
 2. PLUMBING CONTRACTOR SHALL PLUG AND ABANDON ALL EXISTING FLOOR DRAINS, TRENCH DRAINS, ETC., NOT REUSED FOR THE NEW SPACE LAYOUT.
 3. PLUMBING CONTRACTOR SHALL REMOVE ANY AND ALL EXISTING PLUMBING FIXTURES COMPLETE WITH WASTE, VENTS AND WATER LINES NOT REUSED FOR THE NEW SPACE LAYOUT.
 4. PLUMBING CONTRACTOR SHALL DISCONNECT AND REMOVE ANY AND ALL GAS PIPING FROM MECHANICAL EQUIPMENT TO EXISTING GAS METER, NOT REUSED FOR THE NEW SPACE LAYOUT.
 5. SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL DETAILS AND INFORMATION.

HEATING, VENTILATING & AIR CONDITIONING SPECIFICATIONS

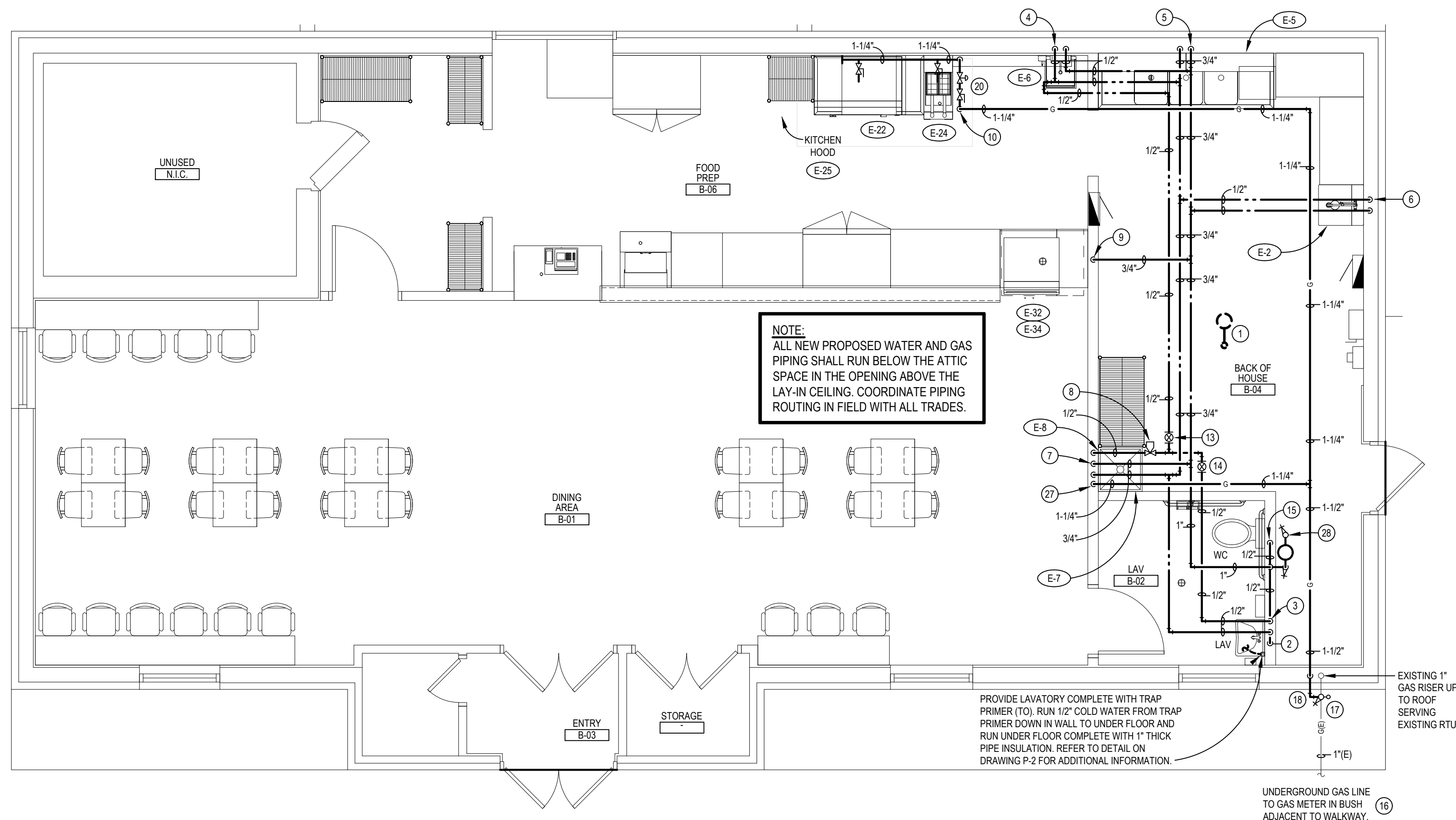
- A. IN RESPECT TO ALL MATERIALS REQUIRED, THE CONTRACTOR SHALL FURNISH MATERIALS MEETING AIAE, NEMA, NELA, ASME AND ASTM SPECIFICATIONS. THE INSTALLATION OF ALL WORK SHALL CONFORM TO ASHRAE GUIDE AND SHEET METAL PROMOTION PLAN STANDARDS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES FOR PERMITS PRIOR TO STARTING WORK.
- B. MATERIALS SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED, AND SHALL BE PROTECTED FROM ALL INJURY UNTIL FINAL ACCEPTANCE OF THE SYSTEM. MECHANICAL CONTRACTOR SHALL BE LICENSED IN THIS AREA TO PERFORM THE NEW WORK.
- C. THIS CONTRACTOR SHALL REMOVE ALL TOOLS, SURPLUS MATERIALS AND DEBRIS OF ALL KINDS FROM HIS WORK AND LEAVE ALL IN A CLEAN, PERFECT CONDITION, FULLY SATISFACTORY TO THE ARCHITECT.
- D. CONTRACTOR SHALL PROVIDE OWNER WITH ONE (1) SET OF "AS-BUILT" DRAWINGS.
- E. FURNISH ALL MATERIALS, TRANSPORTATION, RIGGING, HOISTING, ETC. TO PROVIDE A COMPLETE AND OPERABLE HEATING, AIR CONDITIONING AND VENTILATING SYSTEM.
- F. ALL EQUIPMENT IS TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, ACCORDING TO MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICES. COORDINATE ALL WORK WITH OTHER TRADES AND WITH THE GENERAL CONTRACTOR.
- G. ALL TEMPERATURE CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ALL REQUIRED CONTROLS AND WIRING DIAGRAMS AND SHALL SUPERVISE INSTALLATION.
- H. SYSTEM IS TO BE AIR BALANCED BY AN INDEPENDENT BALANCE COMPANY, TO INCLUDE DIFFUSER CFM, MAKE-UP AIR UNIT, RETURN CFM, HOOD AND GENERAL EXHAUST CFM WITH THREE (3) REPORTS SUBMITTED TO THE OWNER AND TWO (2) MAINTENANCE MANUALS TURNED OVER TO OWNER BEFORE FINAL ACCEPTANCE. ALL SYSTEMS AND EQUIPMENT ARE TO BE GUARANTEED FOR PARTS AND LABOR FOR ONE YEAR (EXCEPT AIR CONDITIONING COMPRESSOR SHALL HAVE FIVE (5) YEAR WARRANTY), AND HEAT EXCHANGER SHALL HAVE TEN (10) YEAR WARRANTY.
- I. DUCTWORK AND PLENUMS SHALL BE AS SCHEDULED ON THE DRAWINGS PER SMACNA "DUCT CONSTRUCTION" CLASSIFICATION.
- ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED SPIRAL DUCT, SPIRAL DUCT AND ALL FITTINGS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS, UNITED SHEET METAL, SPRAMATIC OR SEMCO, WITH ELBOWS 12" AND SMALLER TO BE DIE FORMED FREE FLOW TYPE. IF CONTRACTOR OBTAINS APPROVAL FROM ENGINEER TO USE SINGLE WALL SPIRAL DUCTWORK, NO GORE LOCK ELBOWS OR ADJUSTABLE FITTINGS SHALL BE USED UNLESS SEALANT IS PROVIDED AT EACH SEAM.
- J. SHEET METAL FABRICATION AND INSTALLATION SHALL BE AS FOLLOWS:
1. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH STANDARDS SET FORTH IN LATEST EDITION OF THE ASHRAE GUIDE AND SMACNA STANDARDS UNLESS MODIFIED HEREIN.
 2. DUCT DIMENSIONS ARE GROSS EXCEPT FOR LINED DUCTS WHERE DIMENSIONS ARE NET FREE AREA.
 3. DUCT SIZES SHOWN ON THE PLANS ARE ACTUAL SHEET METAL INSIDE DIMENSIONS AND SHALL BE ADHERED TO UNLESS JOB CONDITIONS REQUIRE ALTERATIONS. REVISIONS TO DUCT SIZES SHALL BE BASED ON THE "EQUAL FRICTION" METHOD.
 4. ALL ELBOWS IN THE DUCT SYSTEM SHALL BE MADE WITH CENTERLINE RADIUS OF ONE AND ONE HALF (1 1/2) TIMES THE TURNING WIDTH OF THE DUCT. WHERE SPACE PROHIBITS THE SPECIFIED MINIMUM RADIUS, SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES SHALL BE INSTALLED. CHANGES IN DUCT SIZES SHALL BE 15 DEG. DIVERGING AND 60 DEG. CONTRACTING, FLOW MAXIMUM ANGLES.
 5. THE GENERAL ROUTE OF THE DUCTS IS SHOWN ON THE PLANS. THE EXACT ROUTE SHALL BE DETERMINED BY JOB CONDITIONS AND SHALL BE COORDINATED WITH ALL OTHER TRADES, ALL GRILLES, REGISTERS, DIFFUSERS, ETC., SHALL BE LOCATED SYMMETRICALLY WITH ELECTRIC LIGHT ARCHITECTURAL TREATMENT, ETC.
 6. HANGERS TO BE 8 FT. CENTERS MAXIMUM WITH STRAPS FOR DUCTS (BENT UNDER BOTTOM OF DUCT AND ATTACHED), DUCTWORK SHALL BE SEALED.
 7. INSTALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURAL STEEL.
 8. NO FIBERGLASS DUCTBOARD WILL BE PERMITTED.
- K. FURNISH AND INSTALL ALL MANUAL SPLITTER DAMPERS AND DEFLECTORS INDICATED ON DRAWINGS OR NECESSARY TO PROPERLY DISTRIBUTE AND BALANCE AIR.
- L. HVAC EQUIPMENT SHALL BE AS SCHEDULED ON DRAWINGS.
- M. INSULATION SHALL BE AS FOLLOWS:
11. ALL INSULATION, VAPOR BARRIER, JACKETS AND ADHESIVE USED FOR APPLYING INSULATION SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM-84, NFPA-255, AND U.L. 723 NOT EXCEEDING A FLAME SPREAD 25 AND SMOKE DEVELOPED OF 50.
 12. ALL NEW CONCEALED SUPPLY AIR DUCTWORK SHALL BE WRAPPED WITH OWENS-CORNING TYPE 150, 1-1/2" DUCT WRAP (6.0 R-VALUE). TAPE ALL SEAMS WITH MINIMUM 2" WIDE TAPE. RETURN AIR DUCTWORK SHALL BE LINED WITH 1" ACOUSTIC LINING (R-4.2 MINIMUM), OWENS-CORNING TYPE 200.
 13. DUCTS PASSING THRU ROOF SHALL BE PROTECTED WITH INSULATED ROOF CURB AND COUNTERFLASHING.
 14. OTHER APPROVED MANUFACTURERS: MANSVILLE, KNAUF, CERTAINTED.
- L. PROVIDE WITH SPIN-IN TRUNK CONNECTIONS WITH AIR SCOOP AND VOLUME DAMPER.
- M. FLEXIBLE CONNECTION AT THE INLET AND OUTLET OF THE AIR MOVING UNIT, EXHAUST FANS AND HVAC UNIT CONNECTED TO DUCTWORK. MATERIALS SHALL BE NON-COMBUSTIBLE TWELVE (12) OUNCES PER SQUARE YARD, NFPA-80A APPROVED.
- N. FLEXIBLE INSULATED DUCT SHALL BE THERMAFLEX TYPE M-KE FACTORY ASSEMBLED DUCT CONSISTING OF COLD ROLLED FLAT STEEL SPRING, CONTINUOUS NON-PERFORATED INNER AIR SEAL LINER, 0.23 THERMAL CONDUCTANCE FIBERGLASS INSULATION, AND FIBERGLASS REINFORCED METALLIZED FILM VAPOR BARRIER. DUCTS SHALL BE LISTED BY UL, CONFORM TO NFPA CLASS 1 WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS.
- GENERAL NOTES:
1. THE MECHANICAL CONTRACTOR SHALL ALSO ARRANGE THE FINAL INSPECTIONS BY THE BUILDING AUTHORITIES.
 2. ALL ROOFTOP EQUIPMENT SHALL BE CONVEYED VIA A CRANE TO THE PROPER LOCATION. ANY OTHER METHOD MUST BE APPROVED BY THE PROJECT MANAGER. DO NOT ROLL UNITS ACROSS ROOF.
 3. NO PIPING, HANGERS, DUCTWORK, ETC., SHALL BE SUSPENDED FROM ROOF DECK. ALL ITEMS SHALL BE SUSPENDED FROM STRUCTURAL STEEL.
 4. ALL ROOF EQUIPMENT (ROOF CURBS, EQUIPMENT SUPPORTS AND MISCELLANEOUS STEEL ANGLE FRAMING AND/OR SUPPORTS) SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. THE FLASHING OF TENANT OCCUPANCY ROOF EQUIPMENT SHALL BE DONE BY THE GENERAL CONTRACTOR'S ROOFING SUBCONTRACTOR AT THE MECHANICAL CONTRACTOR'S EXPENSE. CUTTING OF REQUIRED ROOF OPENINGS SHALL BE DONE BY THE ROOFING SUBCONTRACTOR AT THE MECHANICAL CONTRACTOR'S EXPENSE. A MEETING SHALL BE ARRANGED AT THE JOBSITE WITH THE MECHANICAL CONTRACTOR SO THAT THE ROOFING SUBCONTRACTOR CAN DETERMINE THE SCOPE OF WORK INVOLVED. THE PROJECT MANAGER DURING CONSTRUCTION PERIOD OR WHEN CONSTRUCTION IS BEGINNING WILL MAKE THE NECESSARY ARRANGEMENTS FOR THIS MEETING.
 5. MECHANICAL CONTRACTOR SHALL RUN ROOFTOP CONDENSATE DRAIN LINE AND CONNECT INTO EXISTING CONDENSATE DRAIN LINE FROM REMOVED ROOFTOP UNIT (REPLACE WITH NEW CONDENSATE PIPING AS REQUIRED). COORDINATE WITH THE OWNER FOR EXACT REQUIREMENTS.
 6. MECHANICAL CONTRACTOR TO MAINTAIN MINIMUM 10 FEET BETWEEN EXHAUST VENTS, FANS, ETC., AND OUTSIDE AIR INTAKES.
 7. MECHANICAL CONTRACTOR SHALL VERIFY VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING OF ANY AND ALL MECHANICAL EQUIPMENT.
 8. MECHANICAL CONTRACTOR SHALL INSURE A MINIMUM 10'-0" WORKING CLEARANCE FROM EDGE OF BUILDING.
 9. SMOKE DETECTOR, INTEGRAL SUPPLY AIR DETECTOR IN ROOFTOP UNIT. MECHANICAL CONTRACTOR SHALL ALSO PROVIDE AND INSTALL REMOTE TEST STATION WITH AUDIBLE AND VISUAL ALARMS.
 10. ALL EXTERIOR DUCTWORK SHALL HAVE ALL JOINTS SEALED WATER-TIGHT AND INSTALL 2" THICK RIGID BOARD INSULATION ON EXTERIOR OF DUCTWORK AND COVER WITH THE FOLLOWING:
 - A) ALL EXTERIOR DUCTWORK SHALL BE PROTECTED BY A PREFABRICATED SELF-ADHESING, SHEET-TYPE WATERPROOF MEMBRANE AS MANUFACTURED BY POLYGUARD PRODUCTS, INC., OR MFM BUILDING PRODUCTS CORPORATION. THE ABOVE REFERENCED PRODUCTS SHALL BE POLYGUARD "ALUMAGUARD 60" OR MFM'S "FLEXCLAD 400."
 - B) THE WATERPROOFING MEMBRANE SHALL ONLY BE APPLIED AFTER DUCTWORK HAS BEEN PROPERLY SEALED AND PROPERLY INSULATED.
 - C) THE MEMBRANE SHALL NOT BE USED AS A MEANS FOR AFFIXING THE BOARD INSULATION TO THE DUCTWORK.
 - D) THE WATERPROOFING MEMBRANE SHALL BE APPLIED ON PINNED OR BONDED FIBERGLASS BOARD DUCT INSULATION AFTER THE INSULATION SURFACE HAS BEEN PROPERLY CLEANED. THE INSULATION SURFACE SHALL BE DIRT FREE, DRY AND FREE OF ALL FOREIGN MATERIALS.
 - E) THE WATERPROOFING MEMBRANE SHALL BE INSTALLED SO THAT ALL SEAMS HAVE A MINIMUM 4" OVERLAP. THE MEMBRANE SHALL FIRST BE APPLIED ON THE UNDERSIDE OF THE DUCT WITH ENOUGH MATERIAL TO WRAP UP THE SIDE OF THE DUCT A MINIMUM OF 4". THE MEMBRANE SHOULD THEN BE APPLIED TO THE SIDE OF THE DUCT WITH ENOUGH MATERIAL TO WRAP OVER THE TOP OF THE DUCT A MINIMUM OF 4", AS WELL AS COVERING THE BOTTOM PIECE OF LAPPING MEMBRANE. FINALLY, THE TOP SECTION OF MEMBRANE SHALL BE APPLIED SO THAT A MINIMUM OF MEMBRANE SHALL LAP DOWN OVER EACH SIDE.
 - F) A CLEAN GLOVE SHALL BE USED DURING THE WATERPROOFING INSTALLATION SO AS TO PREVENT HAND OILS FROM CONTAMINATING THE OVERLAP AREA.
 - G) WATERPROOFING MEMBRANE SHALL BE APPLIED WHEN INSULATION SURFACE TEMPERATURE IS ABOVE 50 DEG F. WHEN THE SURFACE TEMPERATURE IS BELOW 50 DEG F, USE A HOT AIR GUN TO WARM THE SURFACE OF THE ADHESIVES BEFORE THE MEMBRANE IS APPLIED.
 - H) ON HORIZONTAL DUCT LAYOUTS, COORDINATE THE INSULATION THICKNESS AND THE A/C UNIT LOCATIONS TO PROVIDE SERVICE ACCESS TO THE INTAKES OF THE ECONOMIZER.

DEMOLITION NOTES:

1. MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING SUPPLY AND EXHAUST AIR DUCTWORK INCLUDING HANGERS, GRILLES, INSULATION, ETC., NOT REUSED FOR THE NEW SPACE. FIELD VERIFY EXISTING CONDITIONS.
2. MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING RETURN AIR DUCTWORK INCLUDING HANGERS, GRILLES, INSULATION, ETC., NOT REUSED FOR THE NEW SPACE. FIELD VERIFY EXISTING CONDITIONS.
3. MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING MECHANICAL EQUIPMENT, FANS, AIR HANDLING UNITS, ROOFTOP EQUIPMENT, ETC., COMPLETE ASSOCIATED WITH NEW SPACE UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL CONTRACTOR TO DISCONNECT POWER AND THE PLUMBING CONTRACTOR SHALL DISCONNECT ANY AND ALL GAS PIPING. COORDINATE WITH OWNER. SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR FURTHER DETAILS AND INFORMATION.

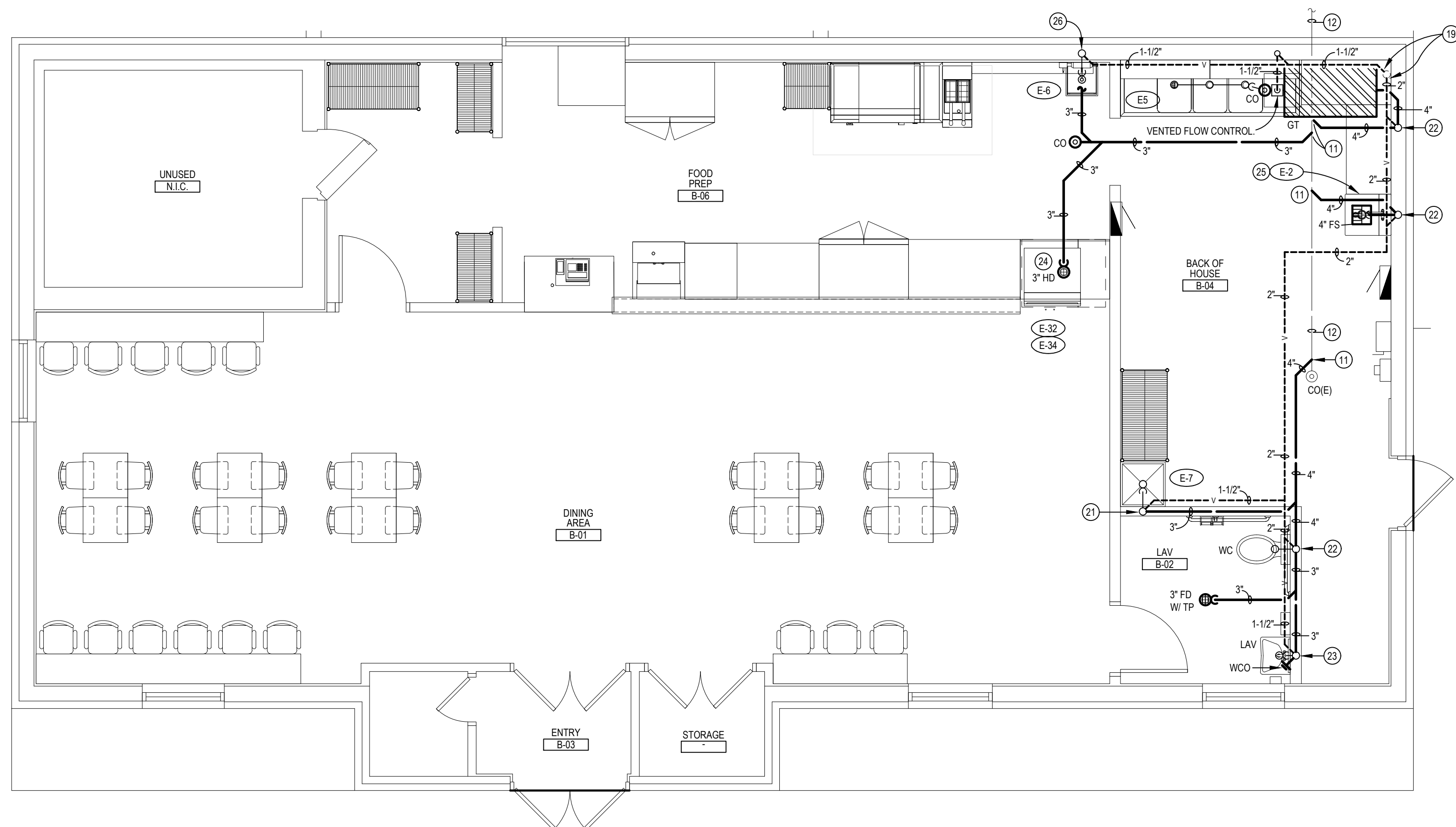
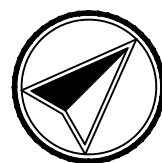
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DOMESTIC WATER & GAS PIPING PLAN

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



SANITARY / VENT PIPING PLAN

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



PLUMBING PLAN CODED NOTES:

- EXISTING DOMESTIC COLD WATER RISER UP THROUGH FLOOR COMPLETE WITH METER TO BE RELOCATED. DISCONNECT METER AND EXTEND EXISTING DOMESTIC COLD WATER SERVICE UNDER FLOOR AS REQUIRED FOR NEW LOCATION. REFER TO THIS SHEET FOR NEW LOCATION AND ADDITIONAL INFORMATION. DISCONNECT AND PERMANENTLY CAP ALL UNUSED LINES AND REMOVE ALL UNUSED PIPING. FIELD VERIFY EXISTING CONDITIONS.
- NEW 1/2" HOT AND COLD WATER DROPS DOWN IN WALL TO LAVATORY COMPLETE WITH THERMOSTATIC TEMPERING VALVE FOR 105°F HOT WATER TO LAVATORY.
- 1/2" RE-CIRCULATING HOT WATER RISER UP IN WALL FROM HOT WATER WITH CONNECTION FROM WITHIN 2'-0" OF THE FAUCET OUTLET.
- 1/2" HOT AND COLD WATER DROPS DOWN IN WALL TO HAND SINK (E-6).
- 3/4" HOT AND COLD WATER DROPS DOWN IN WALL TO 3-COMPARTMENT SINK (E-5).
- 1/2" HOT AND COLD WATER DROPS DOWN IN WALL TO PREP SINK (E-2).
- 3/4" HOT & COLD WATER AND 1/2" RE-CIRCULATING HOT WATER DROPS DOWN IN WALL TO GAS FIRED INSTANTANEOUS WATER HEATER (E-8). CONTINUE DOWN 1/2" HOT AND COLD WATER TO MOP SINK (E-7).
- RE-CIRCULATING HOT WATER PUMP ABOVE CEILING. REFER TO WATER HEATER DETAIL ON DRAWING P-2 FOR ADDITIONAL INFORMATION.
- 3/4" COLD WATER DOWN IN WALL TO ICE MACHINE (E-34) COMPLETE WITH LEAD FREE ANTI-SIPHON PRESSURE VACUUM BREAKER - WATTS MODEL LF804MOT, ASSE STANDARD 1020 ANTI-SIPHON PRESSURE VACUUM BREAKER FOR ICE MAKERS. SIZE PER EQUIPMENT CONNECTION SIZE, 1/2" AND 3/4" AVAILABLE AND 1/2" COLD WATER TO BEVERAGE DISPENSER COMPLETE WITH LEAD FREE VENTED VACUUM BREAKER - WATTS MODEL SD-3, ASSE STANDARD 1022 DUAL CHECK BACKFLOW PREVENTER WITH ATMOSPHERIC PORT FOR USE AHEAD OF CARBONATED BEVERAGE MACHINES, TEA AND COFFEE DISPENSERS. SIZE PER EQUIPMENT CONNECTION SIZE, 1/4" AND 3/8" AVAILABLE.
- 1-1/4" GAS DROP THRU CEILING TO SERVE THE KITCHEN EQUIPMENT.
- EXTEND AND CONNECT NEW SANITARY PIPING, SIZE AS NOTED ON DRAWING, TO EXISTING SANITARY PIPING. FIELD VERIFY EXACT SIZE, LOCATION, INVERT ELEVATION, DIRECTION OF FLOW, ETC., OF EXISTING SANITARY SERVICE PRIOR TO STARTING WORK.
- EXISTING SANITARY PIPING. PLUMBING CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION, AND DIRECTION OF FLOW OF EXISTING SANITARY PIPING PRIOR TO STARTING ANY WORK.
- BALANCING VALVE SET TO 1.5 GPM.
- BALANCING VALVE SET TO 0.5 GPM.

PLUMBING EQUIPMENT SCHEDULE:

EXPANSION TANK (ET)
A.P. AMTROL "THERM-X-TROL" MODEL ST-5, 2.1 GALLON TANK VOLUME, NON-ASME CONSTRUCTION, 3/4" SYSTEM CONNECTION.

THERMOSTATIC TEMPERING VALVE (TTV)
SYMINGTON "MAXLINE" MODEL 7-210-OK WITH A MINIMUM FLOW OF 5 GPM AND 2 GPM @ 10 PSI PRESSURE DIFFERENTIAL. NOTE: TEMPERING VALVE SHALL BE LISTED TO ASSE 1070 STANDARD. TYPICAL FOR HAND SINKS (ITEM #8 & 17) AND LAVATORY.

FLOOR SINK (FS)
J.R. SMITH MODEL 305 PVC/PTOR RESERVOIR DOG FLOOR SINK WITH 12" SQUARE PVC TOP WITH 1/2" GRATE, DOME BOTTOM STRAINER AND 6" DEEP.

FLOOR CLEANOUT (CO)
J.R. SMITH MODEL NO. 4100 SERIES DUCCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP. NOTE: WHERE CLEANOUTS ARE INSTALLED IN CARPETED AREAS PROVIDE WITH CARPET CLAMPING FRAME (SUFFIX-X).

FLOOR DRAIN (FD)
ZURN Z315 TOP VANDAL PROOF DRAIN, DURA-COATED CAST IRON BODY BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, VERTICALLY ADJUSTABLE NICKEL BRONZE TOP WITH SECONDARY STRAINER AND HINGED SOLID LOCKING COVER.

GREASE TRAP (GT)
ZURN GREASE INTERCEPTOR, 50 GPM FLOW RATING, GREASE RETENTION CAPACITY IS 100 LBS., 4" INLET / OUTLET. NOTE: PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER.

OTHER SIMILAR MANUFACTURERS:
A.O. SMITH, BRADFORD WHITE, LOCHINVAR - WATER HEATER
KOHLER, TOTO, ELIER - WATER CLOSETS, LAVS
ZURN, JOSAM - FLOOR DRAINS, FLOOR SINK, CLEANOUTS, ETC..
NOTE: OR AS SELECTED BY OWNER

PLUMBING PLAN CODED NOTES:

- 1/2" COLD WATER DROP DOWN IN WALL TO WATER CLOSET (WC).
- EXISTING 1" GAS LINE UNDER GROUND TO REMOTE METER TO REMAIN AND BE REUSED. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE LOCAL GAS COMPANY TO REPLACE EXISTING LOW PRESSURE GAS METER WITH NEW MEDIUM PRESSURE (2 PSI) GAS METER COMPLETE WITH ALL REGULATORS AND VALVES. COORDINATE TO DISCONNECT AND RECONNECT EXISTING 1" GAS LINE FROM REMOVED METER TO NEW. COORDINATE ALL WORK WITH THE OWNER AND LANDLORD.
- EXISTING 1" (2 PSI FROM REPLACED METER) GAS RISER UP FROM BELOW GRADE, INTO SIDE OF BUILDING AND RISE UP TO ROOF TO SERVE EXISTING ROOFTOP UNIT. PLUMBING CONTRACTOR SHALL DISCONNECT PIPING ABOVE GRADE AND PROVIDE NEW 2 PSI TO 7" W.C. PRESSURE REGULATOR COMPLETE WITH SHUT-OFF VALVES. PROVIDE NEW 2" (7" W.C.) GAS HEADER AFTER REGULATOR AND CONNECT EXISTING 1" GAS LINE SERVING EXISTING ROOFTOP UNIT AND NEW PROPOSED 1-1/2" GAS PIPING SERVING NEW INTERIOR EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS.
- NEW 1-1/2" GAS LINE TO PENETRATE BUILDING IN SAME MANNER AS EXISTING SERVING EXISTING ROOFTOP UNIT. SEAL WALL PENETRATION WATER AND AIR TIGHT. RISE UP IN WALL TO RUN AS HIGH AS POSSIBLE ABOVE CEILING ON INTERIOR OF BUILDING.
- EXTEND AND CONNECT NEW SANITARY VENT PIPING (SIZE AS NOTED) INTO EXISTING SANITARY VENT RISER THROUGH THE ROOF. FIELD VERIFY SIZE AND LOCATION OF EXISTING SANITARY VENT RISER THROUGH THE ROOF PRIOR TO STARTING ANY WORK.
- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL MANUAL GAS VALVE AND AUTOMATIC GAS VALVE (INTERLOCK WITH KITCHEN HOOD FIRE SUPPRESSION SYSTEM) LOCATED BELOW CEILING.
- 3" WASTE DOWN WITH 1-1/2" VENT RISER UP IN WALL.
- 4" WASTE DOWN WITH 2" VENT RISER UP IN WALL.
- 2" WASTE DOWN WITH 1-1/2" VENT RISER IN WALL.
- PLUMBING CONTRACTOR SHALL INDIRECT WASTE FROM ITEMS E-32 & E-34 AND SAFEWASTE INTO 3" HUB DRAIN WITH AIR GAP.
- PLUMBING CONTRACTOR SHALL INDIRECT WASTE FROM ITEM E-2 AND SAFEWASTE INTO 4" FLOOR SINK WITH AIR GAP.
- 1-1/2" WASTE DOWN WITH 1-1/2" VENT RISER IN WALL.
- 1-1/4" GAS LINE DROP DOWN IN WALL TO GAS FIRED INSTANTANEOUS WATER HEATER (E-8). PROVIDE CONNECTION TO WATER HEATER COMPLETE WITH SHUT-OFF VALVE AND DIRT LEG.
- EXTEND EXISTING DOMESTIC COLD WATER SERVICE UNDER FLOOR FROM REMOVED LOCATION AND RUN UP ABOVE FLOOR AT THIS LOCATION (COORDINATE EXACT LOCATION WITH THE GENERAL CONTRACTOR AND OWNER). PROVIDE RISER COMPLETE WITH MASTER SHUT-OFF VALVE AND REINSTALL RELOCATED METER. PROVIDE NEW 1" WATER LINE TO RISE UP IN WALL AND RUN ABOVE CEILING IN CAVITY BELOW ATTIC.

GENERAL PLUMBING NOTES:

- PLUMBING CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SERVICES IN BUILDING PRIOR TO STARTING ANY WORK.
- ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING.
- THE PLUMBING CONTRACTOR TO MAKE ALL FINAL PLUMBING CONNECTIONS TO FIXTURES & EQUIPMENT.
- EXISTING PIPING AND EQUIPMENT LOCATIONS ARE SCHEMATIC. VERIFY EXACT LOCATION AND ELEVATIONS IN FIELD.
- ALL PATCHING AND SEALING OF WALLS, FLOORS, CEILINGS, ETC., TO BE DONE BY GENERAL CONTRACTOR.
- SEAL PENETRATIONS THRU FIRE-RATED WALLS WITH THE PROPER FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING.
- REFER TO DRAWING M-3.0 FOR SPECIFICATIONS.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, OWNER AND KITCHEN EQUIPMENT SUPPLIER FOR CONNECTION TO KITCHEN EQUIPMENT.
- SAW CUTTING IS REQUIRED FOR ALL UNDER FLOOR PIPING. PC TO MAKE SAW CUTS AS MINIMAL AS POSSIBLE TO MATCH DESIGN.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
---	COLD WATER PIPING
---	HOT WATER PIPING
---	RE-CIRCULATING HOT WATER PIPING
---	GREASE WASTE
---	SANITARY SEWER
FD	FLOOR DRAIN
FS	FLOOR SINK
CO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
V	SANITARY VENT PIPING
---	CAP ON END OF PIPE
---	SHUT-OFF VALVE
---	CHECK VALVE
---	SHUT-OFF VALVE IN RISER
---	GAS SHUT-OFF VALVE
---	RISER DOWN (ELBOW)
---	RISER UP (ELBOW)
---	BRANCH-TOP CONNECTION
---	BRANCH-BOTTOM CONNECTION
---	TEE
---	ELBOW
TTV	THERMOSTATIC TEMPERING VALVE
LAV	LAVATORY
MS	MOP SINK
WC	WATER CLOSET
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR

PLUMBING FIXTURE SCHEDULE							
MARK	ITEM	FIXTURE	FAUCET/VALVE	MTG. HT.	CW	HW	TRAP
WC	WATER CLOSET (HANDICAP)	KOHLER K-3519-T HIGHLINE	TANK TYPE	17-1/8" TO RIM	1/2"	-	INTEG.
LAV	LAVATORY	AM.STD. 0355/012 LUCERNE	REFER TO ARCH DWGS	12"	1/2"	1-1/2"	NOTE 2

NOTE-1
ELONGATED PRESSURE-ASSISTED TOILET WITH ULTRA LOW-CONSUMPTION (1.0 GPF), SLOAN FLUSHMATE, TANK COVER LOCKS, AND 17-1/8" RIM HEIGHT. SEAT: BEMIS MODEL NO. 1055SC OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES WITH NON-CORROSIVE STAINLESS STEEL POSTS, PINTLES AND HARDWARE. PROVIDE COMPLETE WITH CHROME SUPPLY WITH LOOSE KEY STOP. MOUNT FLUSH LEVER OPPOSITE OF WALL. PLUMBING CONTRACTOR TO DETERMINE WHICH CLOSET REQUIRES RIGHT HAND FLUSH LEVER ACTUATOR.

NOTE-2
20-1/2" x 18-1/4" VITREOUS CHINA WALL-HUNG LAVATORY WITH WALL HANGER. PROVIDE OPEN GRID STRAINER, PVC WASTE DRAIN AND TRAP, SUPPLIES AND STOPS AND ESCUTCHEON. INSULATE ALL EXPOSED SANITARY AND DOMESTIC WATER PIPING WITH LAV GUARD PROTECTIVE PIPE COVERS AS MANUFACTURED BY TRUEBRO TO CONFORM WITH ADA REQUIREMENTS. PROVIDE COMPLETE WITH THERMOSTATIC TEMPERING VALVE.

KITCHEN EQUIPMENT CONNECTION SCHEDULE						
TAG	DESCRIPTION	WATER		WASTE		REMARKS
		C.W.	105°F	DIRECT	INDIRECT	
E-32	BEVERAGE DISPENSER	1/2"	--	--	(FIELD VERIFY)	EXTEND WASTE TO FLOOR DRAIN WITH AIR GAP MINIMUM (2) TIMES PIPE DIAMETER.
E-34	ICE MACHINE	1/2"	--	--	(2) 1/2" & 3/4"	EXTEND WASTE TO FLOOR DRAIN WITH AIR GAP MINIMUM (2) TIMES PIPE DIAMETER.
E-5	3-COMPARTMENT SINK W/ FAUCET	1/2"	--	1/2"	(FIELD VERIFY)	(3) 1-1/2" INDIVIDUAL WASTE LINES. EXTEND EACH INDIVIDUAL WASTE TO FLOOR SINK WITH 3" AIR GAP. CHROME PLATED BRASS 1-1/2" OD 3" TAILPIECE AND STAINLESS STEEL LEVER ARM (TYPICAL FOR EACH SINK).
E-6	GREASE TRAP	--	--	3"	--	--
E-24	GAS FRYER	--	--	--	--	100.0 EACH
E-22	60" FLATTOP GRIDDLE	--	--	--	--	150.0
E-7	MOP SINK W/ FAUCET	1/2"	--	1/2"	3"	--
E-2	PREP SINK W/ FAUCET	1/2"	--	1/2"	1-1/2"	PC SHALL INDIRECT INTO FLOOR SINK WITH 3" AIR GAP.
E-8	GAS FIRED INSTANTANEOUS WATER HEATER	3/4"	--	3/4"	1/2"	199.9

NOTE: ITEMS INDICATED CORRESPOND TO THE KITCHEN EQUIPMENT NUMBERS. KITCHEN EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER (UNLESS OTHERWISE NOTED). ALL ROUGH-IN AND FINAL CONNECTIONS FOR PLUMBING SHALL BE BY THE PLUMBING CONTRACTOR WITH COORDINATION WITH THE OWNER. VERIFY EXACT CONNECTION SIZES BEFORE STARTING ANY WORK.

POINT ONE Design LTD.
Consulting Engineers



12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

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12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

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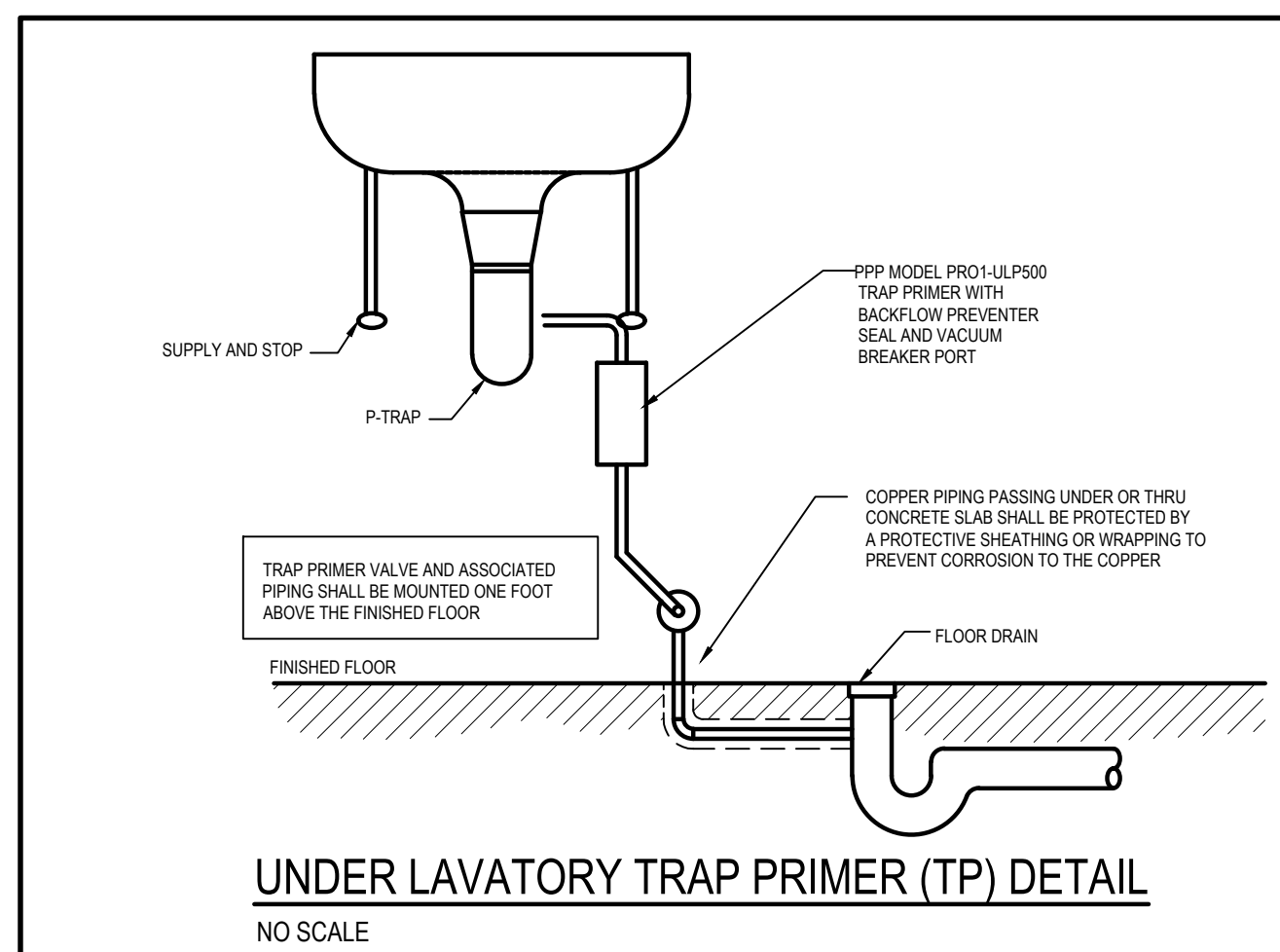
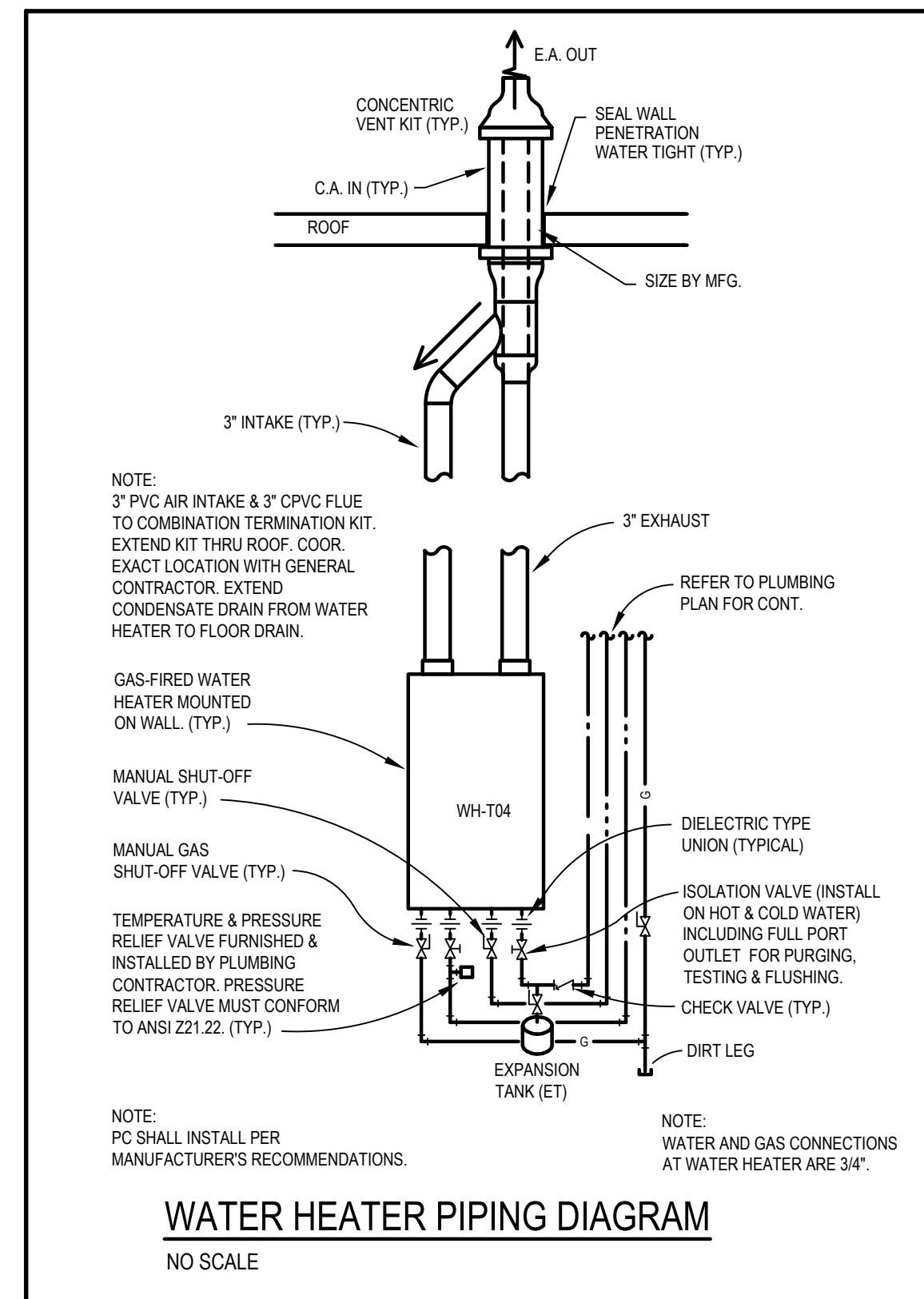
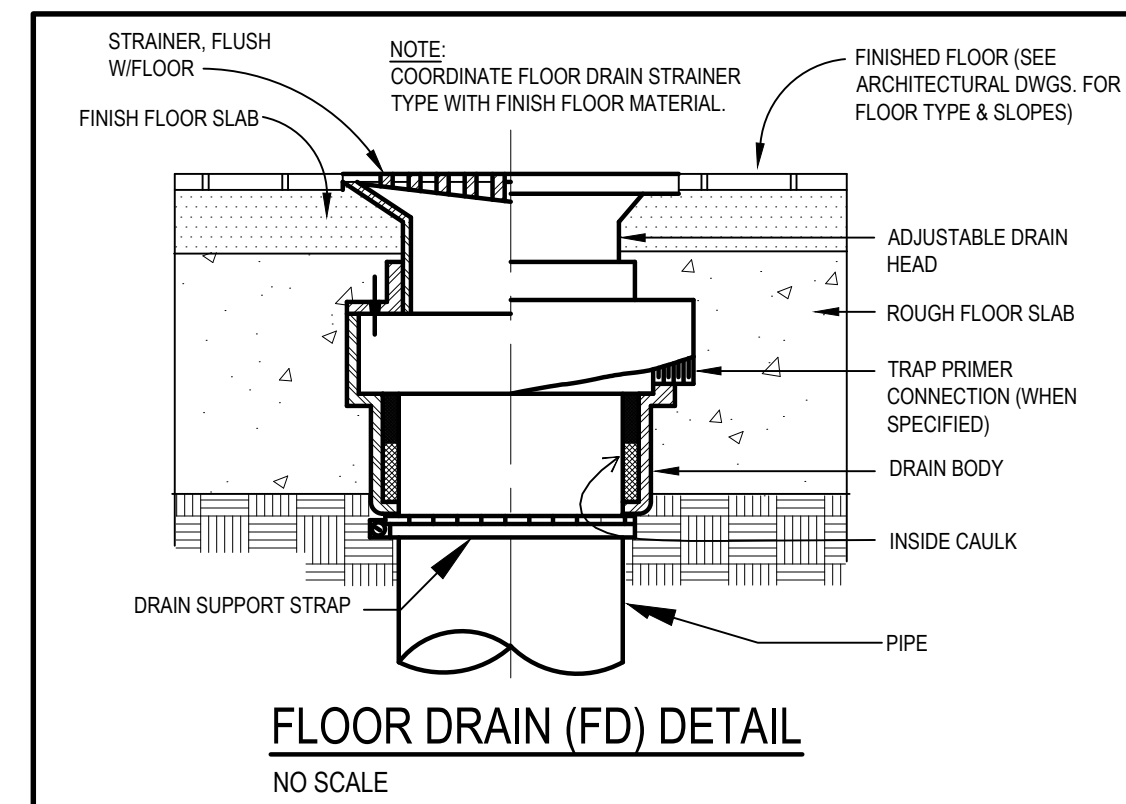
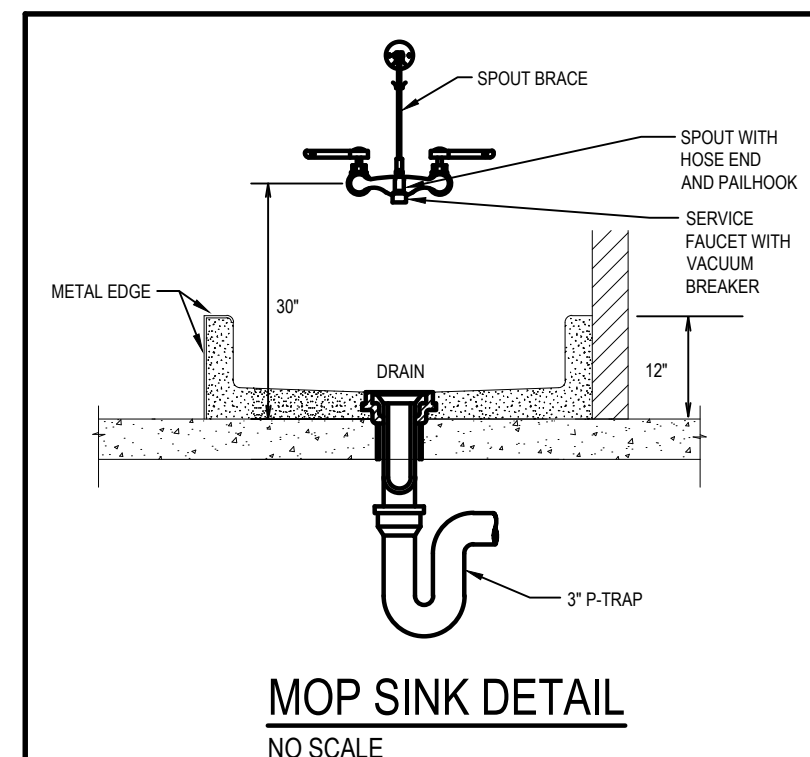
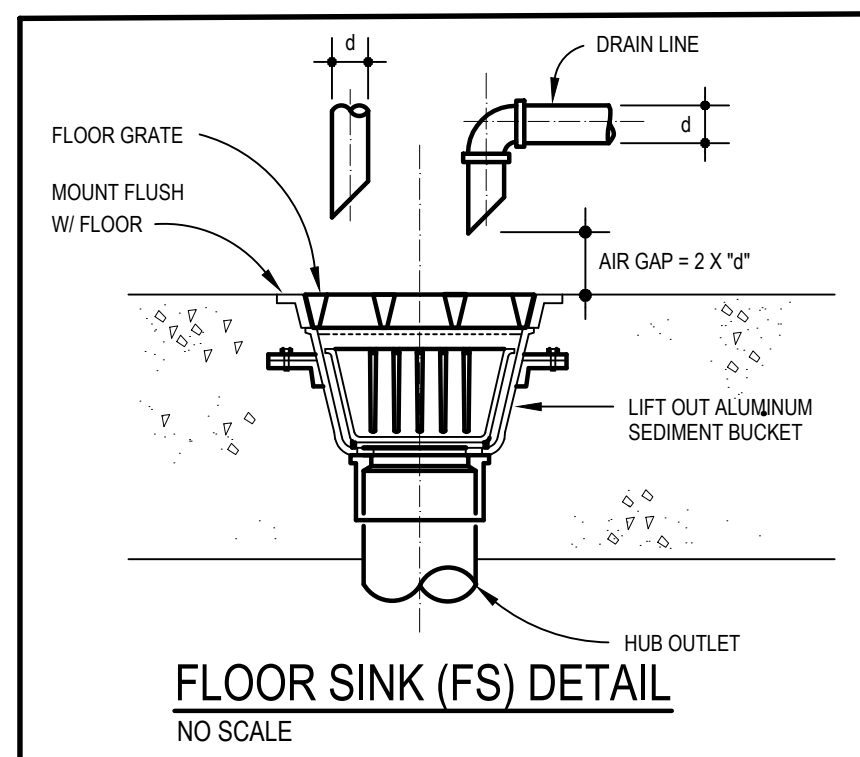
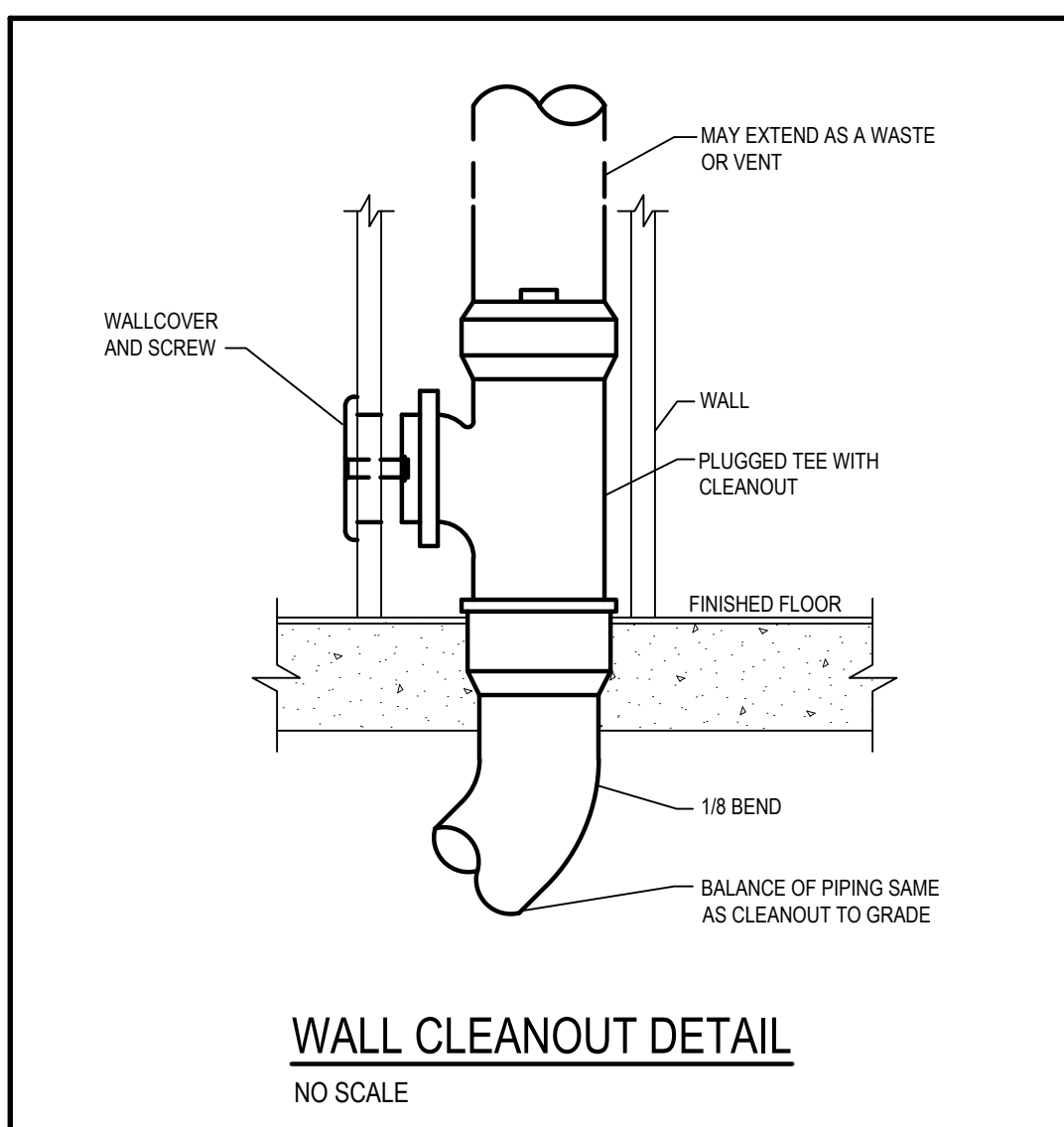
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GAS DEMAND

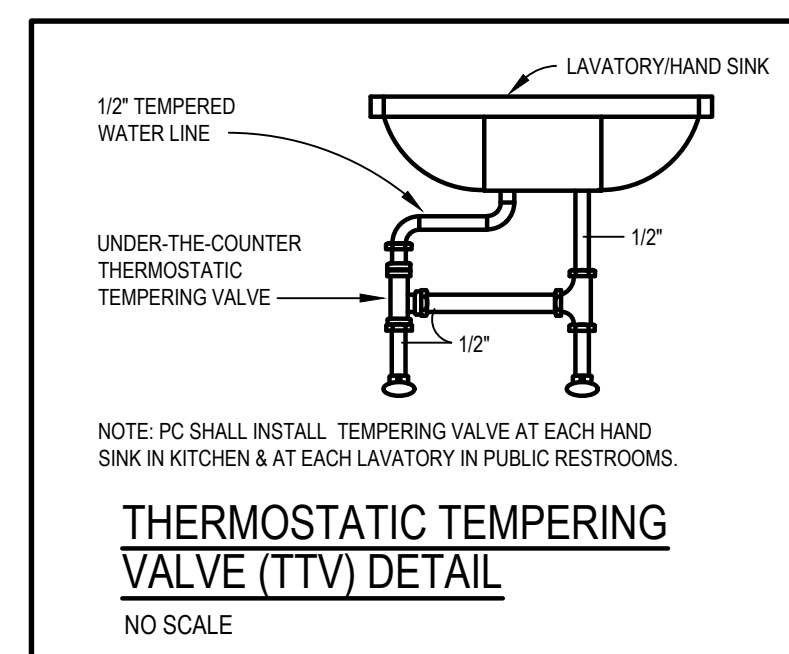
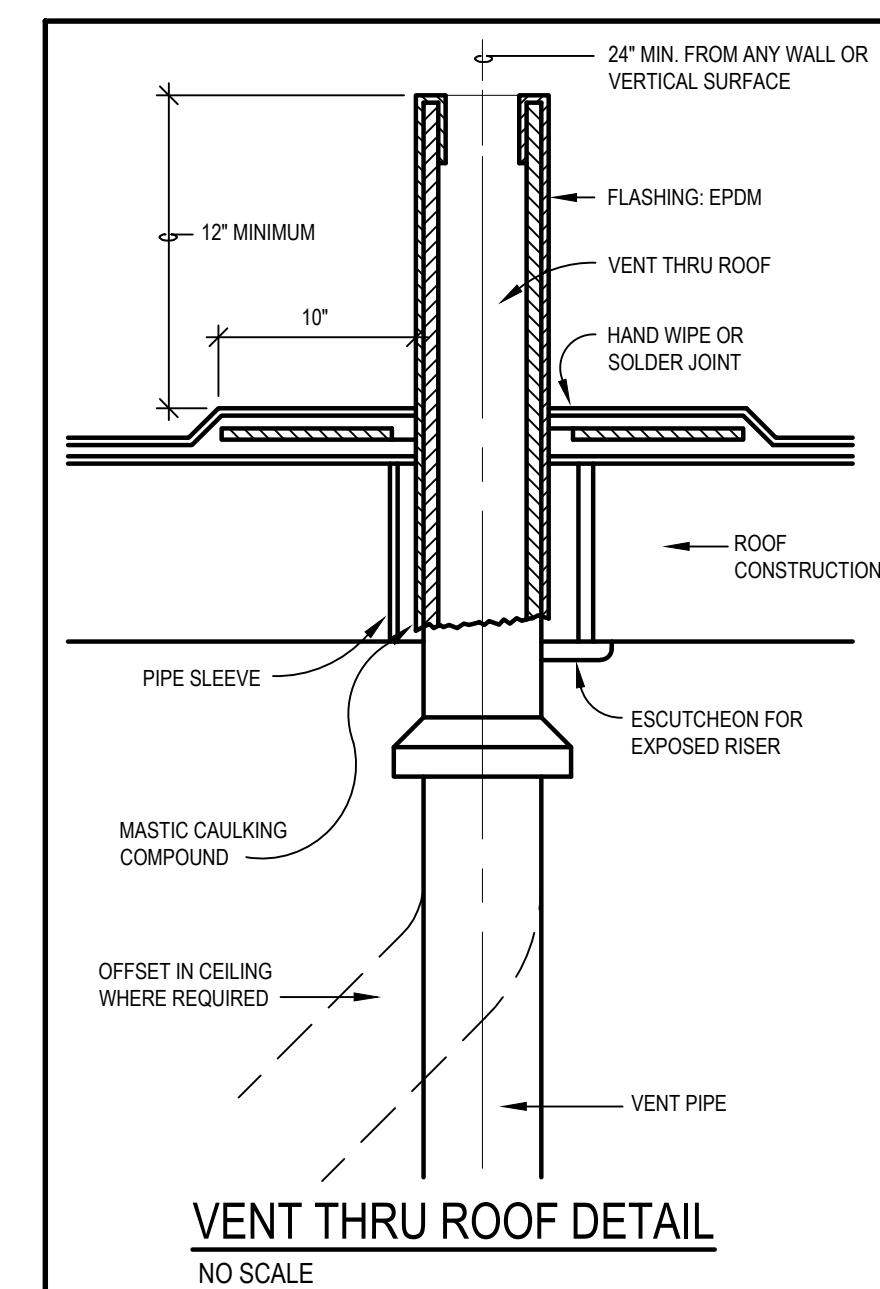
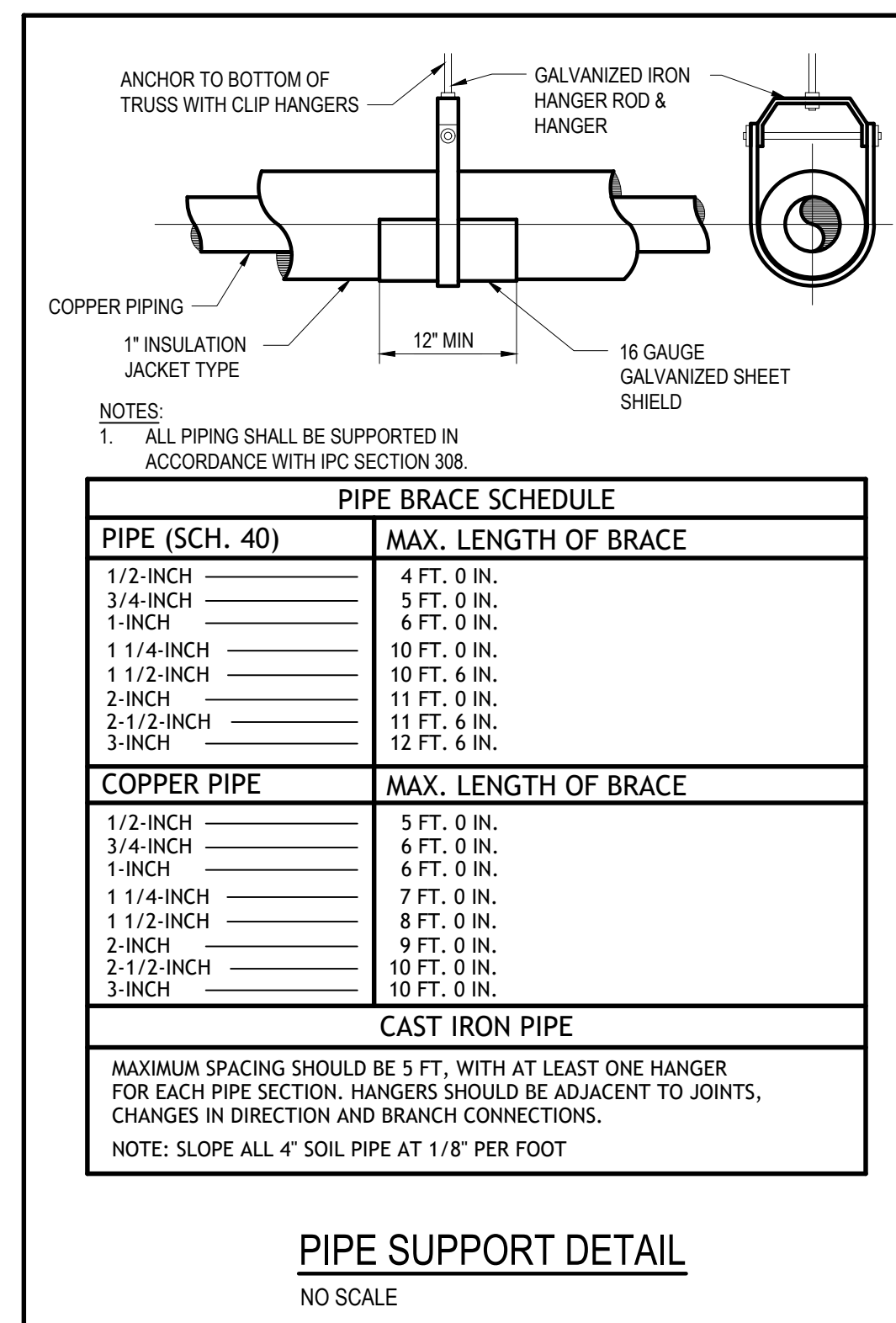
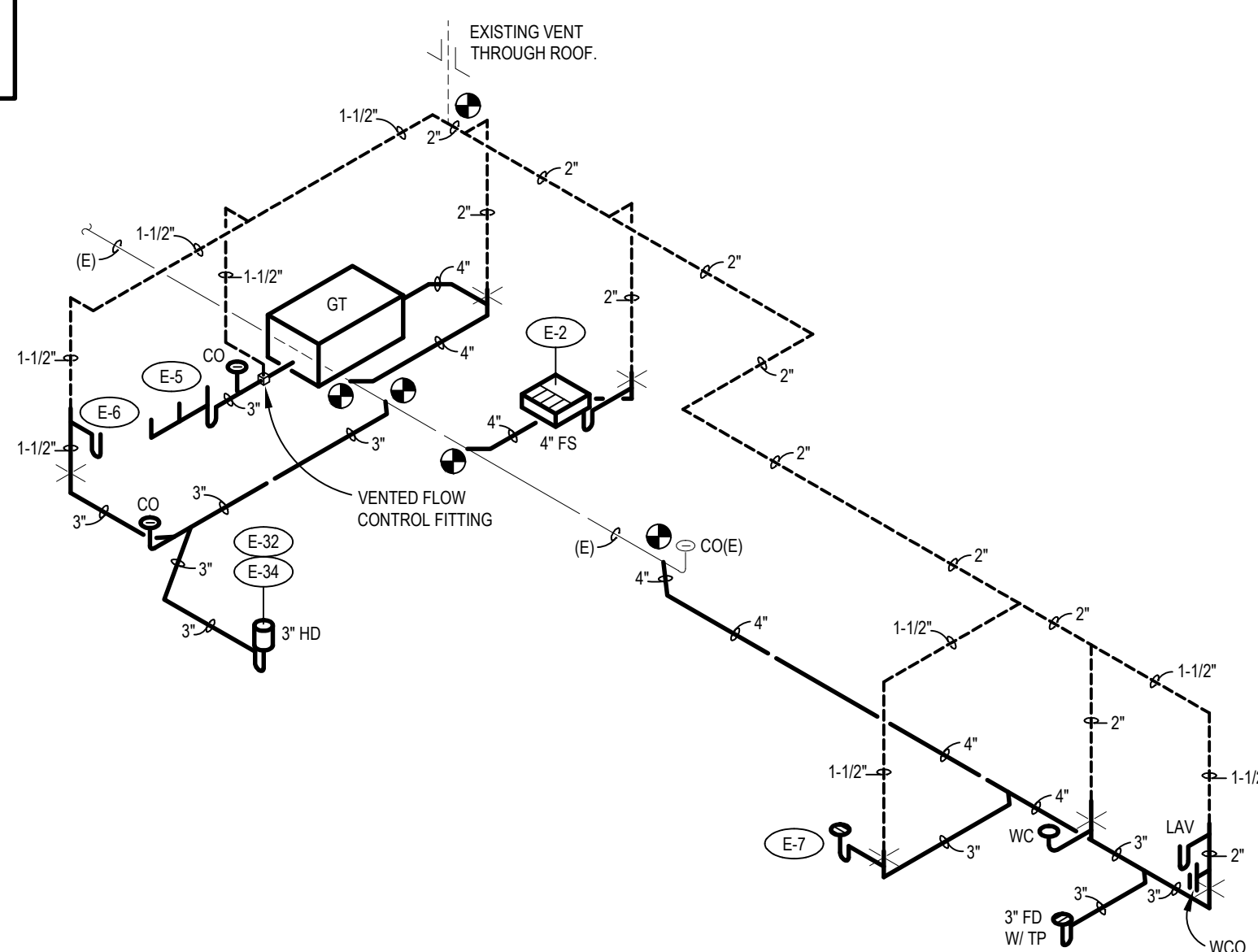
WATER HEATER	199.9 CFH
FRYERS	100.0 CFH
FLATTOP GRIDDLE	150.0 CFH
RTU(E)	200.0 CFH
TOTAL GAS DEMAND	649.9 CFH

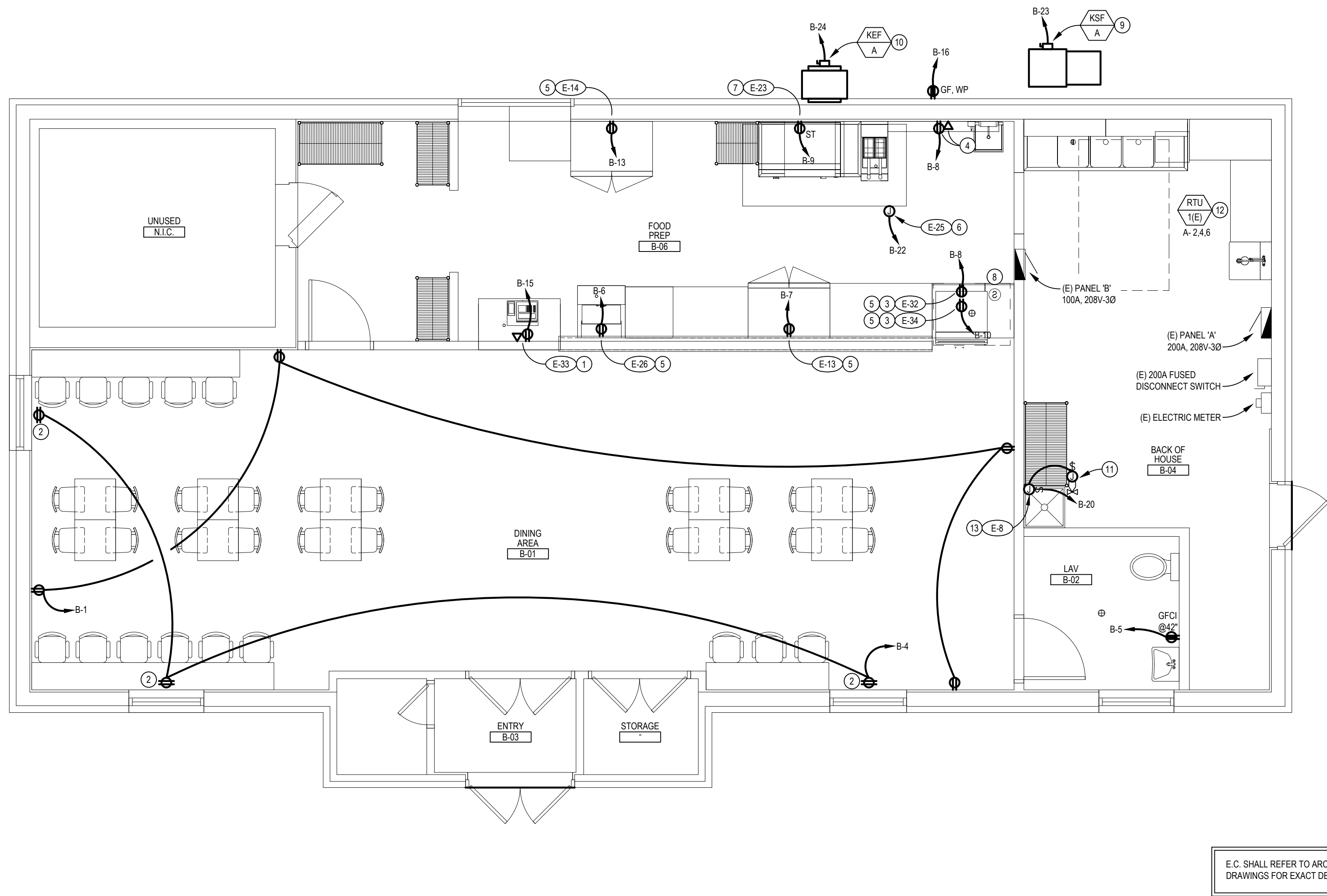
NOTES:

- GAS PRESSURE AFTER NEW METER SHALL BE MEDIUM PRESSURE (2 PSI). COORDINATE WITH THE LOCAL GAS COMPANY TO REMOVE EXISTING METER AND REPLACE WITH NEW COMPLETE WITH ALL REQUIRED VALVES AND REGULATORS AS REQUIRED.
- NEW AND EXISTING GAS PIPE SIZES ARE BASED ON THE 2021 INTERNATIONAL FUEL GAS CODE TABLE 402.4(6) SCHEDULE 40 METALLIC PIPE. INLET PRESSURE OF 2 PSI; PRESSURE DROP OF 1 PSI AND 50 FEET (TOTAL LENGTH OF PIPE) FROM METER TO NEW 2 PSI TO 7" W.C. PRESSURE REGULATOR AT BUILDING. GAS PIPE SIZES ARE BASED ON THE 2021 INTERNATIONAL FUEL GAS CODE TABLE 402.4(2) SCHEDULE 40 METALLIC PIPE. INLET PRESSURE OF LESS THAN 2 PSI; PRESSURE DROP OF 0.5 IN W.C. AND 100 FEET (TOTAL DEVELOPED LENGTH OF PIPE) FROM THE NEW PRESSURE REGULATOR AT THE BUILDING TO NEW PROPOSED INTERIOR EQUIPMENT.

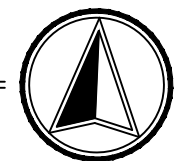
GAS PIPING NOTES:

- PLUMBING CONTRACTOR TO NOTIFY THE AUTHORITY HAVING JURISDICTION WHEN THE INSTALLATION IS READY FOR INSPECTION (AT ROUGH-IN PRIOR TO COVERING AND FINAL).
- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL GAS PRESSURE REGULATOR, MANUAL SHUT-OFF VALVE, DRIPS AND/OR SEDIMENT TRAPS AT EACH PIECE OF EQUIPMENT AND AT THE OUTLET OF THE METER. VALVES AND DRIPS SHALL BE READILY ACCESSIBLE TO PERMIT CLEANING, EMPTYING OR SERVICING.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE TESTING AND INSPECTION PRIOR TO ACCEPTANCE. PER NFPA 54, TEST PRESSURE SHALL BE NO LESS THAN 1-1/2 TIMES THE MAXIMUM WORKING PRESSURE, BUT NOT LESS THAN 3 PSI. TEST SHALL BE NOT LESS THAN 1/2 HOUR PER 500 CF OF PIPE VOLUME.
- GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 POUNDS BLACK MALLEABLE IRON SCREWED FITTINGS FOR 2" AND SMALLER AND WELDED FOR 2-1/2" AND ABOVE. GAS PIPING COMPOUND AT JOINTS SHALL BE PER NFPA BULLETIN #54 AND LOCAL CODES. GAS VALVES SHALL BE UL LISTED FOR GAS SERVICE SUCH AS DEZURICK MODEL S-425 FOR 2" AND LESS AND MODEL F-425 FOR 2-1/2" AND LARGER. NOTE: WELDED PIPE TO BE WITH APPROVED WELD-O-LET FITTINGS.
- GAS PIPING IS TO BE PRIMED AND PAINTED WITH TWO (2) COATS OF RUST RESISTANT PAINT. PAINT EXTERIOR TO MATCH EXTERIOR BUILDING COLOR AND GAS PIPING ON ROOF SHALL BE PAINTED SAFETY YELLOW AS REQUIRED BY SECTION 404 OF THE INTERNATIONAL FUEL GAS CODE.
- ABOVE GROUND OUTDOOR PIPING SHALL BE PROVIDED WITH FACTORY-APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE, AND PE OR FIELD APPLIED PRIMER AND EPOXY PAINT COATING ON ALL PIPE AND FITTINGS. FIELD APPLIED COATING IS RESTRICTED TO FITTINGS AND SHORT SECTIONS OF PIPE NECESSARILY STRIPPED FOR THREADING OR WELDING. FIELD COATING SHALL BE MANUFACTURED BY AMERICOAT TYPE 240 OR APPROVED EQUAL, AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. GALVANIZING SHALL NOT BE CONSIDERED ADEQUATE PROTECTION.





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

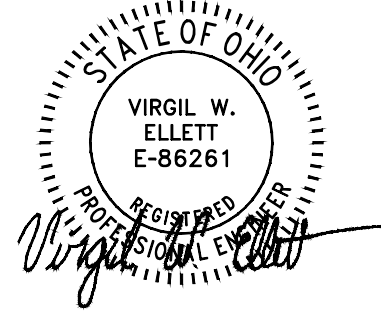


POWER CODED NOTES:

- 1 E.C. SHALL FURNISH AND INSTALL DEDICATED 120V/20A GROUND FAULT RECEPTACLE FOR PRINTER / POS AT 12" A.F.F. WITH DEDICATED GROUND.
- 2 HORIZONTALLY MOUNT RECEPTACLE ABOVE WINDOW, INSTALL WITHIN 18" OF TOP OF WINDOW PER NEC 210.62.
- 3 CONFIRM MOUNTING HEIGHT IN FIELD PRIOR TO ROUGH-IN.
- 4 PROVIDE RECEPTACLE AND DATA AT 96" A.F.F. FOR DIGITAL MENU BOARDS, COORDINATE EXACT LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- 5 GFCI PROTECTION LOCATED IN PANELBOARD.
- 6 HOOD CONTROL PANEL FOR KH-1, 120V-1Ø. SEE HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 7 PROVIDE FACELESS GFCI DEVICE IN ACCESSIBLE LOCATION IN KITCHEN AREA FOR REQUIRED GFCI PROTECTION OF EQUIPMENT.
- 8 EXISTING DUCT SMOKE DETECTOR AT RTU WIRED TO SHUT DOWN RTU WHEN SMOKE IS DETECTED. COORDINATE WITH M.C. TO ENSURE THE DETECTOR IS IN GOOD, WORKING CONDITION.
- 9 KSF-A, 120V-1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4"C FROM 30A/2P/NEMA-3R-250V/NON-FUSED DISCONNECT SWITCH TO 20A-1P BREAKER IN PANEL. MAKE ALL FINAL CONNECTIONS. WIRE THROUGH HOOD CONTROLLER. SEE KITCHEN HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 10 KEF-A, 120V-1Ø. (LOCATED ON EXTERIOR WALL). RUN (2) #12 CU & (1) #12 CU GRD IN 3/4"C FROM 30A/2P/NEMA-3R-250V/NON-FUSED DISCONNECT SWITCH TO 20A-1P BREAKER IN PANEL. MAKE ALL FINAL CONNECTIONS. WIRE THROUGH HOOD CONTROLLER. SEE KITCHEN HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 11 RECIRCULATING HOT WATER PUMP, 120V-1Ø. RUN (2) #12 CU & (1) #12 CU GRD. IN 3/4"C FROM 20A-1P MOTOR RATED TOGGLE SWITCH TO 20A-1P BREAKER IN PANEL. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION WITH P.C. PRIOR TO INSTALLATION.
- 12 EXISTING RTU-1, 208V-3Ø (LOCATED ON ROOF). MAINTAIN EXISTING CIRCUITRY.
- 13 TANKLESS WATER HEATER, 120V-1Ø. RUN (2) #12 CU & (1) #12 CU GRD. IN 3/4"C FROM 20A-1P BREAKER IN PANEL. MAKE ALL FINAL CONNECTIONS.

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO DIMENSIONS, LOCATIONS, AND CIRCUITING ARRANGEMENTS. VERIFY THAT ABANDONED WIRING SERVES ONLY ABANDONED EQUIPMENT, FIXTURES OR DEVICES. DEMOLITION INFORMATION IS BASED ON INSPECTION OF THE EXISTING SPACES. REPORT DISCREPANCIES TO THE ARCHITECT BEFORE DISTURBING THE EXISTING INSTALLATION. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
2. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL OR AS DESIGNATED. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY IF POSSIBLE. FOR EQUIPMENT AND DEVICES TO BE REMOVED, REMOVE ALL EXPOSED WIRE, CONDUIT, BOXES AND MOUNTING HARDWARE BACK TO LAST ACCESSIBLE JUNCTION BOX UNLESS EXISTING WIRING OR DEVICE IS TO BE REUSED. REMOVE EXPOSED ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS. ALL DEVICES AND EQUIPMENT THAT ARE NOT SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. ALL LIGHT FIXTURES, EMERGENCY LIGHTS, WALL SWITCHES, RECEPTACLES OR FIRE ALARM DEVICES IN THE AREA DESIGNATED "E" ARE EXISTING TO REMAIN. INSURE CONTINUITY AND PROPER OPERATION OF ALL LIGHTS AND DEVICES THAT REMAIN ON CIRCUITS THAT HAVE BEEN PARTIALLY REMOVED. PROVIDE NEW HOME RUN IF NECESSARY TO MAINTAIN OPERATION.
4. ALL LIGHT FIXTURES, EMERGENCY LIGHTS, WALL SWITCHES, RECEPTACLES OR FIRE ALARM DEVICES IN THE AREA DESIGNATED "R" ARE TO BE RELOCATED AND "D" TO BE REMOVED. MAINTAIN EXISTING CIRCUITING AND CONTROLS FOR NEW LIGHTING.
5. REUSE EXISTING CIRCUITS SERVING LIGHTING AND RECEPTACLES TO SERVE NEW OR RELOCATED SIMILAR DEVICES WHEREVER POSSIBLE IN EACH AREA.
6. FOR CIRCUITS THAT ARE REMOVED BACK TO PANEL BREAKERS, MARK BREAKER AS SPARE IN CIRCUIT DIRECTORY AND TURN BREAKER TO "OFF" POSITION.
7. PROVIDE CONTINUITY TO ALL FIXTURES, DEVICES AND EQUIPMENT OUTSIDE THE CONSTRUCTION AREA THAT ARE REMAINING ON CIRCUITS THAT ARE PARTIALLY REMOVED DUE TO WORK IN THE CONSTRUCTION AREA.
8. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND CONSTRUCTION.
9. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS. PROVIDE WIRING METHODS IN COMPLIANCE WITH CURRENT CODES.
10. MAINTAIN EXISTING ELECTRICAL SERVICE, TELEPHONE AND FIRE ALARM SYSTEM TO THE REMAINDER OF THE FACILITY DURING DEMOLITION AND CONSTRUCTION. PROVIDE ALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS. NOTIFY THE OWNER PRIOR TO PARTIALLY OR COMPLETELY DISABLING ANY SYSTEM.
11. FLOOR PLAN DOES NOT INDICATE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, COMMUNICATION DEVICES, WIRING, CONDUIT, ETC. TO BE REMOVED AND/OR RELOCATED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION PRIOR TO SUBMITTING BID.
12. ALL UNUSED WIRE (POWER & COMMUNICATION) SHALL BE REMOVED.
13. EXISTING FIRE ALARM SIGNALS ON EXISTING WALLS BEING DEMOLISHED SHALL BE RELOCATED TO PROVIDE COVERAGE IN THE SAME AREA. NO NEW DEVICES ARE PROPOSED AS PART OF THIS WORK.



12500 edgewater drive suite 905
lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

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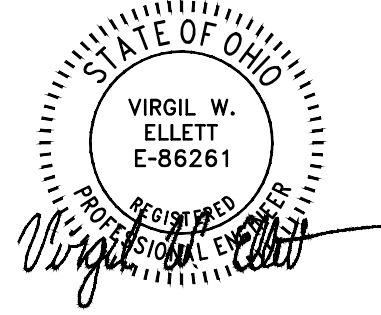
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lakewood, oh 44107
t: 216.241.6150
f: 216.395.0053

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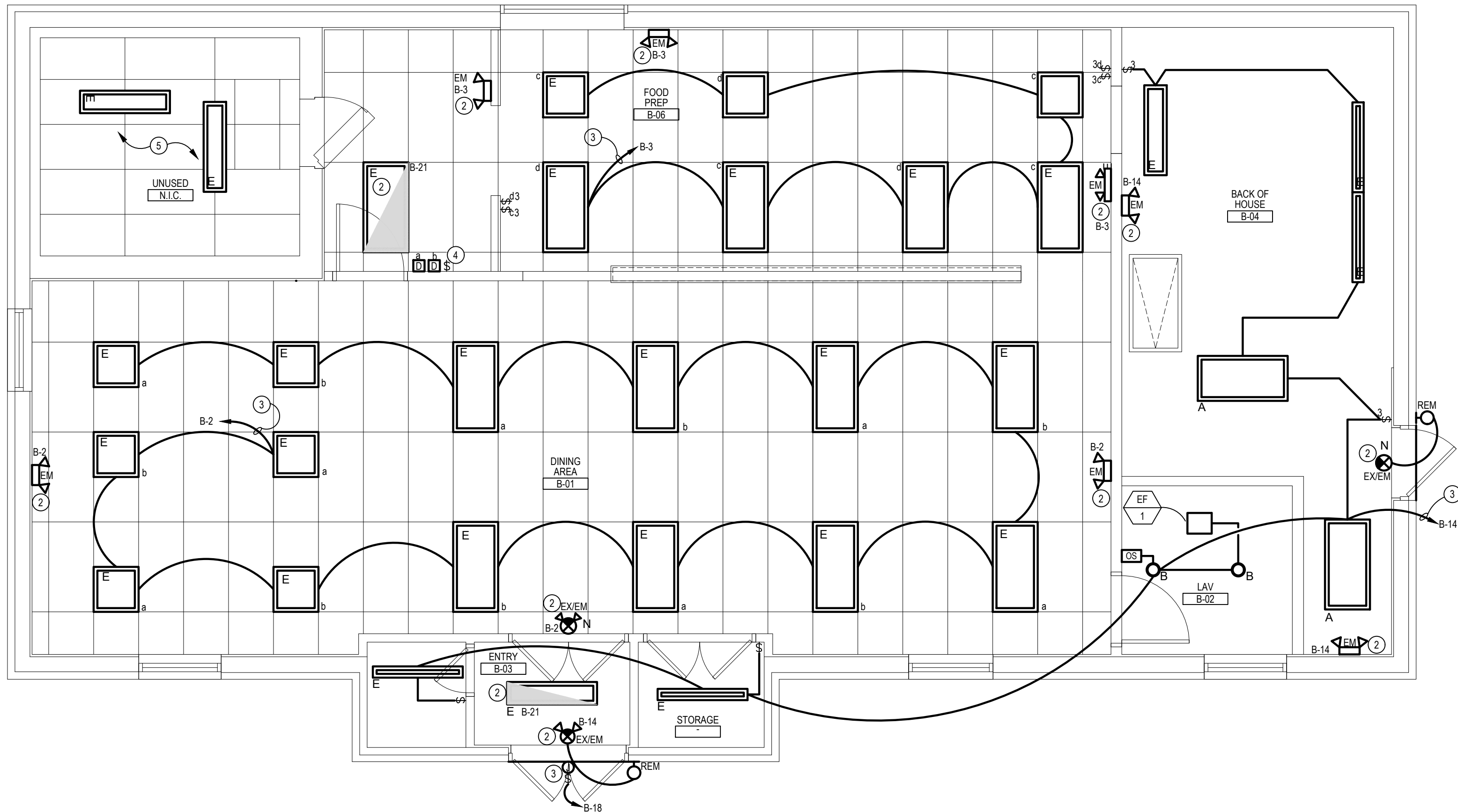
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LIGHTING NOTES:

- 1 WIRE THRU LIGHTING CONTACTOR (LC-1) CONTROLLED BY TIMECLOCK.
- 2 NIGHT LIGHT, EMERGENCY, AND EGRESS LIGHTS TO BE WIRED TO CIRCUIT LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHES OR CONTROLS.
- 3 PROVIDE JUNCTION BOX FOR EXTERIOR SIGN AND WIRE THRU LIGHTING CONTACTOR (TC-1) CONTROLLED BY TIMECLOCK, E.C. TO PROVIDE MEANS OF DISCONNECT.FIELD VERIFY EXACT LOCATION WITH OWNER.
- 4 OVERRIDE SWITCH
- 5 EXISTING AREA LIGHTING AND SWITCHING TO REMAIN.

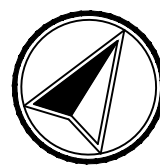
ELECTRICAL DEMOLITION GENERAL NOTES:

1. VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO DIMENSIONS, LOCATIONS, AND CIRCUITING ARRANGEMENTS. VERIFY THAT ABANDONED WIRING SERVES ONLY ABANDONED EQUIPMENT, FIXTURES OR DEVICES. DEMOLITION INFORMATION IS BASED ON INSPECTION OF THE EXISTING SPACES. REPORT DISCREPANCIES TO THE ARCHITECT BEFORE DISTURBING THE EXISTING INSTALLATION. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
2. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL OR AS DESIGNATED. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY IF POSSIBLE. FOR EQUIPMENT AND DEVICES TO BE REMOVED, REMOVE ALL EXPOSED WIRE, CONDUIT, BOXES AND MOUNTING HARDWARE BACK TO LAST ACCESSIBLE JUNCTION BOX UNLESS EXISTING WIRING OR DEVICE IS TO BE REUSED. REMOVE EXPOSED ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS. ALL DEVICES AND EQUIPMENT THAT ARE NOT SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. ALL LIGHT FIXTURES, EMERGENCY LIGHTS, WALL SWITCHES, RECEPTACLES OR FIRE ALARM DEVICES IN THE AREA DESIGNATED "E" ARE EXISTING TO REMAIN. INSURE CONTINUITY AND PROPER OPERATION OF ALL LIGHTS AND DEVICES THAT REMAIN ON CIRCUITS THAT HAVE BEEN PARTIALLY REMOVED. PROVIDE NEW HOME RUN IF NECESSARY TO MAINTAIN OPERATION.
4. ALL LIGHT FIXTURES, EMERGENCY LIGHTS, WALL SWITCHES, RECEPTACLES OR FIRE ALARM DEVICES IN THE AREA DESIGNATED "R" ARE TO BE RELOCATED AND "D" TO BE REMOVED. MAINTAIN EXISTING CIRCUITING AND CONTROLS FOR NEW LIGHTING.
5. REUSE EXISTING CIRCUITS SERVING LIGHTING AND RECEPTACLES TO SERVE NEW OR RELOCATED SIMILAR DEVICES WHEREVER POSSIBLE IN EACH AREA.
6. FOR CIRCUITS THAT ARE REMOVED BACK TO PANEL BREAKERS, MARK BREAKER AS SPARE IN CIRCUIT DIRECTORY AND TURN BREAKER TO "OFF" POSITION.
7. PROVIDE CONTINUITY TO ALL FIXTURES, DEVICES AND EQUIPMENT OUTSIDE THE CONSTRUCTION AREA THAT ARE REMAINING ON CIRCUITS THAT ARE PARTIALLY REMOVED DUE TO WORK IN THE CONSTRUCTION AREA.
8. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND CONSTRUCTION.
9. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS. PROVIDE WIRING METHODS IN COMPLIANCE WITH CURRENT CODES.
10. MAINTAIN EXISTING ELECTRICAL SERVICE, TELEPHONE AND FIRE ALARM SYSTEM TO THE REMAINDER OF THE FACILITY DURING DEMOLITION AND CONSTRUCTION. PROVIDE ALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS. NOTIFY THE OWNER PRIOR TO PARTIALLY OR COMPLETELY DISABLING ANY SYSTEM.
11. FLOOR PLAN DOES NOT INDICATE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, COMMUNICATION DEVICES, WIRING, CONDUIT, ETC. TO BE REMOVED AND/OR RELOCATED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION PRIOR TO SUBMITTING BID.
12. ALL UNUSED WIRE (POWER & COMMUNICATION) SHALL BE REMOVED.
13. EXISTING FIRE ALARM SIGNALS ON EXISTING WALLS BEING DEMOLISHED SHALL BE RELOCATED TO PROVIDE COVERAGE IN THE SAME AREA. NO NEW DEVICES ARE PROPOSED AS PART OF THIS WORK.



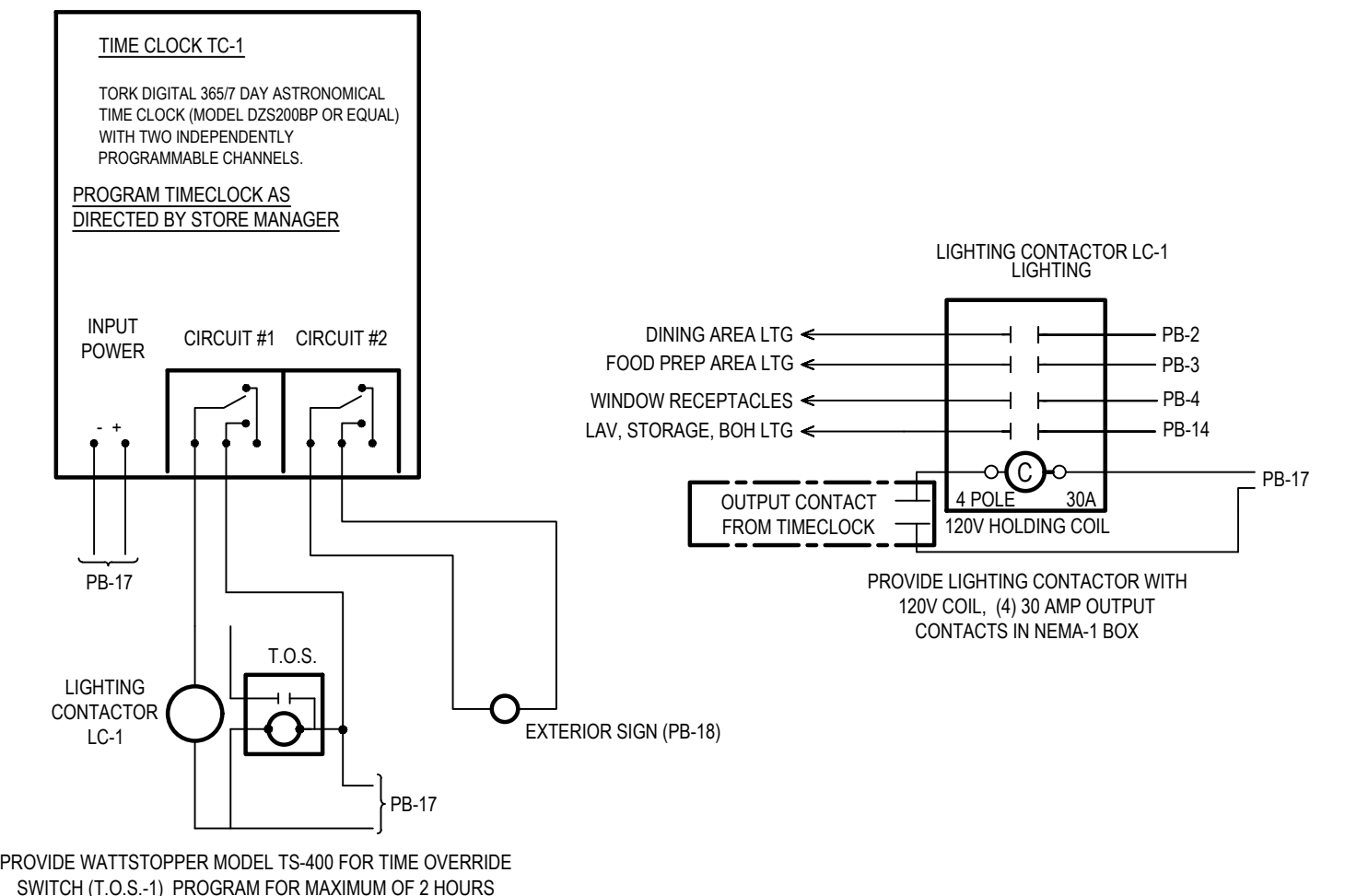
LIGHTING PLAN

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



ELECTRICAL GENERAL NOTES:

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE THE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
- ALL WORK SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH N.E.C., STATE BUILDING CODE, CITY BUILDING CODE AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR SUBJECT TO STRUCTURAL AND OTHER CONDITIONS. THE CONTRACTOR SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES 10' IN ANY DIRECTION BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.
- ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. ALL CONDUCTORS SHALL BE IN CONDUIT AND ALL CONDUIT SHALL BE CONCEALED. USE OF EXPOSED CONDUIT OR RACEWAY SHALL REQUIRE APPROVAL BY THE ARCHITECT PRIOR TO INSTALLING. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING AND CHANNELING TO INSTALL HIS WORK. PATCHING WILL BE DONE BY THE GENERAL CONTRACTOR AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. DEFECTS THAT APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE. FOR THAT SAME PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
- THE CONTRACTOR SHOULD REFER TO ARCHITECTURAL PLANS FOR LIGHTING FIXTURES, SIZING, TYPE, FINISHES, & LOCATION. THE ARCHITECT SHOULD BE CONSULTED ON ANY DISCREPANCIES FOUND BETWEEN THE ELECTRICAL PLANS AND ARCHITECTURAL PLANS PRIOR TO PERFORMING WORK.
- SMOKE DETECTORS SHALL BE MONITORED BY THE LANDLORD'S FIRE ALARM SYSTEM AND SHALL BE FURNISHED AND INSTALLED BY THE LANDLORD'S FIRE ALARM CONTRACTOR, AT THE TENANT'S EXPENSE TO COMPLY WITH CODE.
- DUCT MOUNTED SMOKE DETECTORS ARE REQUIRED AT ALL HVAC EQUIPMENT, REGARDLESS OF THE AIR VOLUME OF THE EQUIPMENT. DUCT MOUNTED SMOKE DETECTORS SHALL BE MONITORED BY THE FIRE ALARM SYSTEM AND SHALL BE FURNISHED AND INSTALLED BY LANDLORD'S FIRE ALARM CONTRACTOR, AT THE TENANT'S EXPENSE TO COMPLY WITH CODE AND THE FIRE ALARM SYSTEM REQUIREMENTS STATED IN THE LATEST VERSION OF THE 'LANDLORD'S WORK LETTER-TENANT WORK LETTER'. IN ADDITION, THE TENANT SHALL BE RESPONSIBLE TO MAINTAIN ACCESS TO THESE DETECTORS FOR ANNUAL TESTING BY THE LANDLORD. ACCESS SHALL BE PROVIDED BASED ON FINAL AS-BUILT SMOKE DETECTOR LOCATIONS
- TENANT IS RESPONSIBLE TO MAINTAIN ACCESS TO LANDLORD JUNCTION BOXES.
- TENANTS ARE REQUIRED TO PROVIDE A LABEL AT THE LANDLORD'S SWITCHGEAR TO IDENTIFY THEIR ELECTRICAL SERVICE.
- TIME SCHEDULE TO BE DETERMINED BY THE LANDLORD.
- TIME SCHEDULE OF STOREFRONT LIGHTING AND SIGNAGE TO BE DETERMINED BY THE LANDLORD.



PROVIDE WATTSTOPPER MODEL TS-400 FOR TIME OVERRIDE SWITCH (T.O.S.-1). PROGRAM FOR MAXIMUM OF 2 HOURS

TIMECLOCK/ LIGHTING CONTROL DIAGRAM

NTS

Panel ID: PANEL B			Voltage: 208 / 120			Panel Type: EXISTING								
Location:			Phase: 3			Encl. Type: EXISTING								
Mounting: SURFACE			Wire: 4			AIC: EXISTING								
Main Type: SEE RISER			Bus Amperage: 200 Amps											
All phases to be balanced to within 7% using actual connected loads.														
CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	DINING ROOM RECEP	20/1	E	0.720	0.720	A	0.440	0.440	E/TC	20/1	DINING AREA LTG	12	2
3	12	FOOD PREP AREA LTG	20/1	E/TC	0.220	0.220	B	0.540	0.540	E/TC	20/1	WINDOW RECEPTS	12	4
5	12	LAV RECEPT	20/1	E	0.180	0.180	A	1.000	1.000	N/GF	20/1	REFR. SAND. PREP TABLE	12	6
7	12	REACH IN REFRIGERATOR	20/1	N/GF	0.547	0.547	A	1.000	1.000	N/GF	20/1	BEVERAGE DISPENSER	12	8
9	12	REFRIGERATED CHEF BASE	20/1	N/ST	0.444	0.444	B	1.000	1.000	N/GF	20/1	ICE MACHINE	12	10
11	12	SPACE FOR SHUNT			0.000	0.000	C	0.180	0.180	E	20/1	MENU BOARD RECEPT	12	12
13	12	FREEZER	20/1	N/GF	1.000	1.000	A	0.170	0.170	E/TC	20/1	LAV, STORAGE, BOH LTG	12	14
15	12	PRINTER	20/1	E	0.180	0.180	B	0.180	0.180	E	20/1	EXTERIOR RECEPT	12	16
17	12	TIME CLOCK	20/1	E	0.200	0.200	C	1.200	1.200	E/TC	20/1	EXTERIOR SIGN	12	18
19	12	RECIRCULATING HOT WATER PUMP	20/1	E	1.500	1.500	A	1.500	1.500	E	20/1	TANKLESS GAS WATER HEATER	12	20
21	12	NIGHT LIGHTS	20/1	E	0.800	0.800	B	1.200	1.200	E	20/1	EXHAUST HOOD	12	22
23	12	KITCHEN SUPPLY FAN	20/1	E	1.656	1.656	C	1.176	1.176	E	20/1	KITCHEN EXHAUST FAN	12	24
25	12	SPARE	20/1	N	0.000	0.000	A	0.000	0.000	N	20/1	SPARE	12	26
27	12	SPARE	20/1	N	0.000	0.000	B	0.000	0.000	N	20/1	SPARE	12	28
29	12	SPARE	20/1	N	0.000	0.000	C	0.000	0.000	N	20/1	SPARE	12	30
31	12	SPARE	20/1	N	0.000	0.000	A	0.000	0.000	N	20/1	SPARE	12	32
33	12	SPARE	20/1	N	0.000	0.000	B	0.000	0.000	N	20/1	SPARE	12	34
35	12	SPARE	20/1	N	0.000	0.000	C	0.000	0.000	N	20/1	SPARE	12	36
37	12	SPARE	20/1	N	0.000	0.000	A	0.000	0.000	N	20/1	SPARE	12	38
39	12	SPARE	20/1	N	0.000	0.000	B	0.000	0.000	N	20/1	SPARE	12	40
41	12	SPARE	20/1	N	0.000	0.000	C	0.000	0.000	N	20/1	SPARE	12	42
Actual Load Panel Summary					N.E.C. Load Panel Summary					Breaker Options (If Used):				
Phase A: 6.9 KVA					Phase A: 6.9 KVA					TC - WIRE THROUGH TIMECLOCK				
Phase B: 4.6 KVA					Phase B: 4.6 KVA					E - EXISTING BREAKER TO REMAIN				
Phase C: 5.6 KVA					Phase C: 5.6 KVA					N - NEW BREAKER TO MATCH AIC RATING				
Total: 17.0 KVA					Total: 17.0 KVA					ST - SHUNT TRIP BREAKER				

ELECTRICAL SPECIFICATIONS

- THE REQUIREMENTS AS SET FORTH UNDER GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND GENERAL REQUIREMENTS ARE A PART OF THIS CONTRACT. BIDS SHALL BE BASED ON A COMPLETE/FULL SET OF DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH WORK PERFORMED BY OTHER TRADES.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL EXISTING ELECTRICAL LOCATIONS, CONDITIONS ETC. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE ELECTRICAL WORK. BEGINNING OF ACCEPTANCE OF EXISTING CONDITIONS.
- FURNISH ALL LABOR, MATERIALS, TESTING, EQUIPMENT, INCIDENTALS AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION. MATERIALS, PRODUCTS AND EQUIPMENT INCLUDING ALL COMPONENTS THEREOF SHALL BE NEW AND AS SUCH APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF APPROVED ITEMS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE STRINGENT.
- ALL WORK IS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. ALL ELECTRICAL EQUIPMENT & MATERIALS SHALL BE U.L. LABELED AND LISTED PER NEC 110.3.
- SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, ASSESSMENTS AND INSPECTION CERTIFICATES THAT RELATE TO THE ELECTRICAL CONTRACT. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- THESE ELECTRICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD-VERIFIED AND COORDINATED WITH ARCHITECTURAL, PLUMBING, HVAC, FIRE PROTECTION, STRUCTURAL AND OTHER BUILDING DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH SHOP DRAWINGS, REVIEWED AND STAMPED APPROVED BY THE CONTRACTOR, FOR APPROVAL BY THE ARCHITECT AND ENGINEER, PRIOR TO ORDERING EQUIPMENT SUCH AS LIGHT FIXTURES, DISTRIBUTION EQUIPMENT, AND FIRE ALARM SYSTEM.
- CONDUIT SHALL BE STANDARD STEEL RIGID OR EMT (THIN WALL) ACCORDING TO LOCAL CODE REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY THE ARCHITECT. THE USE OF SURFACE RACEWAY EXCEPT AS CALLED FOR ON DRAWINGS SHALL REQUIRE APPROVAL OF THE ARCHITECT. EMT CONNECTIONS SHALL BE COMPRESSION OR SET-SCREW TYPE. FLEXIBLE CONDUIT OR TYPE MC CABLE SHALL BE APPROVED FOR CONCEALED BRANCH CIRCUITING AND FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS AND VIBRATING EQUIPMENT AND WHERE SO USED TO BE GROUNDED WITH A SEPARATE FULL SIZED GREEN GROUNDING CONDUCTOR. EXPOSED FINAL TYPE MC/FLEX CONNECTIONS SHALL BE LIMITED TO 10'-0" IN LENGTH. ARRANGE CIRCUITS SO AS TO AVOID THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILING AREAS. JUNCTION BOXES LOCATED ABOVE LAY-IN CEILINGS ARE ACCEPTABLE.
- MINIMUM SIZES OF CONDUITS SHALL BE 1/2". ALL CONDUIT AND WIRING SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. ALL CORE DRILLING OR CUTTING OF FIRE-RATED FLOORS, SHAFTS AND WALLS SHALL BE FIRE-STOPPED PRIOR TO FINISH PATCHING. ALL PENETRATIONS SHALL BE FIRE SEALED TO MATCH THE FIRE-RATING OF THE FLOOR, SHAFT OR WALL PENETRATED.
- WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES. INCREASE CONDUCTOR BY ONE SIZE FOR EVERY 150' INCREMENT OF DISTANCE FROM THE PANEL BOARD FOR 120 VOLT CIRCUITS. GENERAL WIRING SHALL BE THW, THWN, THHN, OR XHHW. ALUMINUM CONDUCTORS ARE NOT PERMITTED.
- FURNISH AND INSTALL A COMPLETE WIRED GROUNDING SYSTEM FOR ELECTRICAL SERVICE ENTRANCE. ELECTRICAL EQUIPMENT AND CIRCUITS AS SHOWN ON THE DRAWINGS AND REQUIRED PER N.E.C. ARTICLE 250. ALL GROUNDING CONDUCTORS SHALL BE GREEN, WHERE EXPOSED IN PANEL, OUTLETS, BOXES, ETC.
- RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 5362. WALL SWITCHES SHALL BE 20 AMP SPECIFICATION GRADE, RATED AT 120 VOLT OR 277 VOLT AS REQUIRED. ALL DEVICE COVERPLATES SHALL BE PASS AND SEYMOUR OR EQUAL.
- PROVIDE BRANCH CIRCUIT PANELS WHICH SHALL BE OF THE BOLTED CIRCUIT BREAKER TYPE WITH SOLID COPPER BUSSING FULL SIZED NEUTRAL, 25% GROUND BUSSING, OVERALL HINGED/LOCKABLE DOOR, AND TYPEWRITTEN DIRECTORY INSIDE DOOR. ALL SERVICE ENTRANCE EQUIPMENT SHALL BEAR THE MANUFACTURER'S LABEL WHICH SHALL STATE THAT THE EQUIPMENT IS RATED FOR SERVICE ENTRANCE APPLICATION IN ACCORDANCE WITH N.E.C. #230.7. LOAD BALANCE ALL ELECTRICAL PHASES AT PANEL. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP TYPE. SQUARE D OR EQUAL BY EATON, CUTLER-HAMMER, OR GENERAL ELECTRIC.
- PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NONFUSED, AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. FUSES AS MANUFACTURED BY BUSSMAN OR EQUAL. DISCONNECT SWITCHES THAT ARE INSTALLED AT AIR CONDITIONING EQUIPMENT, HEAT PUMPS, ETC. SHALL BE FUSED IN ACCORDANCE WITH THE EQUIPMENT'S NAME PLATE REQUIREMENTS PER N.E.C. 440.21 & 110-3B. SWITCHES SHALL BE HEAVY DUTY, QUICK MAKE/QUICK BREAK TYPE. FUSIBLE OR NON-FUSIBLE. LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE D, EATON, CUTLER HAMMER, OR GENERAL ELECTRIC, WEATHERPROOF WHERE APPLICABLE.
- PROVIDE ARC-FLASH HAZARD WARNING LABELS ON ALL ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS, MOTOR CONTROLLERS, AND ANY OTHER EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED. THE LABELS SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION.
- OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL KNOCKOUT. JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE. INSTALL BOXES RIGIDLY ON BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE APPROPRIATE BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF WALLS ETC. ALL OUTLET BOXES TO HAVE SUITABLE BLOCKING BEHIND THEM TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE AND PROVIDE LIGHTING, POWER AND WIRING AS REQUIRED TO FACILITATE APPLICABLE TEMPORARY NEEDS FOR ALL TRADES. HE SHALL FURNISH EXTENSION CORDS FOR HIS OWN USE. ANY TEMPORARY WIRING, FUSES, ETC., SHALL BE REMOVED UPON COMPLETION OF THE PROJECT. PROVIDE GROUND FAULT PROTECTION AS REQUIRED BY N.E.C. AND LOCAL CODES.
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE AVAILABLE FAULT CURRENT & CURRENT DATE.
- ALL ELECTRIC WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT PIPING OR DUCTWORK. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. CONDUITS SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. ALL CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR OTHER CODE APPROVED RACEWAYS.
- PANELBOARDS AND DISCONNECT SWITCHES SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES AS TO DESIGNATION AND VOLTAGE.
- MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS APPEARING IN THAT PERIOD SHALL BE CORRECTED AT THE ELECTRICAL CONTRACTOR'S EXPENSE. FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.
- IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.
- PROVIDE O & M MANUALS & AS-BUILT DRAWINGS TO THE OWNER WITH-IN 30 DAYS OF FINAL ACCEPTANCE.

ELECTRICAL LEGEND			
ELECTRICAL LEGEND NOTES:			
1. MOUNTING HEIGHTS INDICATED ARE TO THE TOP OF THE DEVICE OR FIXTURE.			
2. MOUNTING HEIGHTS ARE TYPICAL, UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.			
3. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON EXACT DEVICE AND FIXTURE LOCATIONS, MOUNTING HEIGHTS AND COORDINATION WITH ARCHITECTURAL HARDWARE AND FIXTURES.			
4. NOT ALL SYMBOLS APPLY.			
LIGHTING		POWER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\$	WALL SWITCH @48" A.F.F. 20A, 120V	⊕	DUPLEX RECEPTACLE @20" A.F.F. 20A, 125V
\$ ³	THREE-WAY SWITCH @48" A.F.F. 20A, 120V	⊕	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER @20" A.F.F. 20A, 125V
BS	OCCUPANCY SENSOR WALL MOUNTED @48" A.F.F.	⊕WP	DUPLEX RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER @18" A.F.F. OR A.F.G. 20A, 125V
CS	OCCUPANCY SENSOR CEILING MOUNTED	⊕	DOUBLE DUPLEX RECEPTACLE @20" A.F.F. 20A, 125V
□	LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE.	⊕	SPECIAL RECEPTACLE AMPERAGE @20" A.F.F. COORDINATE NEMA CONFIG. WITH EQUIPMENT FED.
⊕ NL	LIGHT FIXTURE ON NIGHT LIGHT	□	JUNCTION BOX MOUNTED AS NOTED.
○	CEILING LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE	□	SAFETY DISCONNECT SWITCH @60" A.F.F. TO TOP
⊕	WALL LIGHTING OUTLET @ HEIGHT PER FIXTURE SCHEDULE OF ARCHITECTURAL ELEVATIONS.	⊕	PANELBOARD, SURFACE MOUNTED @6'-0" A.F.F. TO TOP
⊕	EMERGENCY EXIT LIGHT, SINGLE FACE, CLG. MOUNTED.	⊕	PANELBOARD, FLUSH MOUNTED @6'-0" A.F.F. TO TOP
⊕	EMERGENCY EXIT LIGHT, SINGLE FACE, WALL MOUNTED	⊕ EF	CEILING EXHAUST FAN BY M.C. WIRED BY (FURN E.C.) MAKE ALL CONNECTIONS AS INDICATED ON DRAWING.
⊕	COMBINATION EMERGENCY EXIT/EGRESS LIGHT, SINGLE FACE, CEILING MOUNTED	⊕	4" SQ. BOX WIG PLASTER RING @20" A.F.F. FOR TELEPHONE OUTLET. COVER PLATE WIRING & TERMINATION BY OWNER RUN 3/4" C. FROM BOX UP IN WALL TO ABOVE ACCESSIBLE CEILING
⊕ EMR	EMERGENCY EGRESS LIGHT @90" A.F.F. WALL MOUNTED	⊕	COMBINATION OCCUPANCY DIMMER(ON)/SENSOR(OFF) @48" AFF
⊕	EMERGENCY REMOTE HEAD FOR EXIT DISCHARGE	⊕	

LIGHTING FIXTURE SCHEDULE					
MARK	DESCRIPTION	VOLT	LAMP	MOUNT	MANUFACTURER
A	2' X 4' LED PANEL	120	26 W LED 4000 LUM 4000 K	RECESSED GRID	LITHONIA LIGHTING #07X-2X4-AL08-80CRI-SWW7-SWLM-MVOLT-DGA24 OR OWNER SELECTED FIXTURE
B	6" CAN LIGHT	120	25 W MAX 3000 K	RECESSED	OWNER SELECTED FIXTURE
EM	SELF CONTAINED EMERGENCY EGRESS LIGHT	120	LED FURN. W/ UNIT	WALL @90"	LITHONIA #ELM2
EX/EM	SELF CONTAINED EXIT COMBO LIGHT, DUAL LED HEAD WITH HIGH 90 MINUTE EMERGENCY BATTERY BACK-UP	120	FURN. WITH UNIT	UNIVERSAL	LITHONIA LHOM-LED-HO
REM	REMOTE EMERGENCY LIGHT, DUAL HEAD	120	FURN. WITH UNIT	EXT. WALL ABOVE DOOR	LITHONIA: ELA SD QWP L0309 M12
NOTES:					
1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.					
2. EQUAL FIXTURES BY COOPER, HUBBELL, LSI, PHILLIPS OR LITHONIA.					



**CITY OF WILLOWICK PLAN REVIEW BOARD
APPLICATION FOR PERMIT TO OCCUPY FOR
BUSINESS, COMMERCIAL, INDUSTRIAL, ETC.
YOU MUST FILL OUT ENTIRE APPLICATION
416-314-3000**

PERMIT FEE \$30.00

DATE: _____

Location of Occupancy: 3800 Lakeland Blvd Business Name: Kurtz Bros Inc.

(ADDRESS) Kurtz Bros., Inc., 6415 Granger Road

Business Owner's Name & Address: _____

CITY/STATE/ZIP: Independence, OH 44131

Telephone Number: 216-986-7000 Fax Number: 216-986-7001 Federal ID Number 34-1152347

OR Social Security Number

OWNER OF PROPERTY/NAME/ADDRESS/TELEPHONE NUMBER: Same as above

SUBMIT NEW DETAINED FLOOR PLAN: _____ SQ. FT. HABITABLE FLOOR AREA FOR OCCUPANCY: _____

Building Size: 24x60' Total Number Of Employees: 10

Intended Number of Occupants: 10 Total Number of Seating: 10

Site Plan With Number of Paved Parking Spaces

Hours Of Operation: 7am - 6pm M-Sat.

Letter of Intent: _____

Previous Use: _____

Proposed Use: _____

NAME OF PRINCIPAL OR CONTACT PERSON FOR NEW BUSINESS: Tom Kurtz

Name Address/City/Zip

Telephone Number: 216 986 7034

I hereby certify that the above questions have been answered correctly by me and that the premises will be used for the purpose stated above. Any change in the purpose of occupancy will not be made without approval from Lake County Building, Willowick Fire & Willowick Zoning Department. A permit issued by the Willowick Building Dept. (416) 316-3000 or a representative thereof, must be complied with before opening of business. I do hereby further agree to maintain the above premises in compliance with the ordinances of the City of Willowick.

Applicant's Signature: [Signature]

Date: 9/22/25

Other users only

Zoning District: _____

Authorized Occupants: _____

TEMPORARY APPROVED BY: _____

Date: _____

Zoning Dept. Inspected by: _____

DATE: _____

Zoning Permit # _____

Zoning Permit Fee \$ _____

Fire Dept. Inspected by _____

Date: _____

CITY OF WILLOWICK APPLICATION FOR COMMERCIAL ESTABLISHMENT LICENSE REQUIRED AFTER APPROVAL.
Note: A separate permit is required for all new signs from the Willowick Building Department.

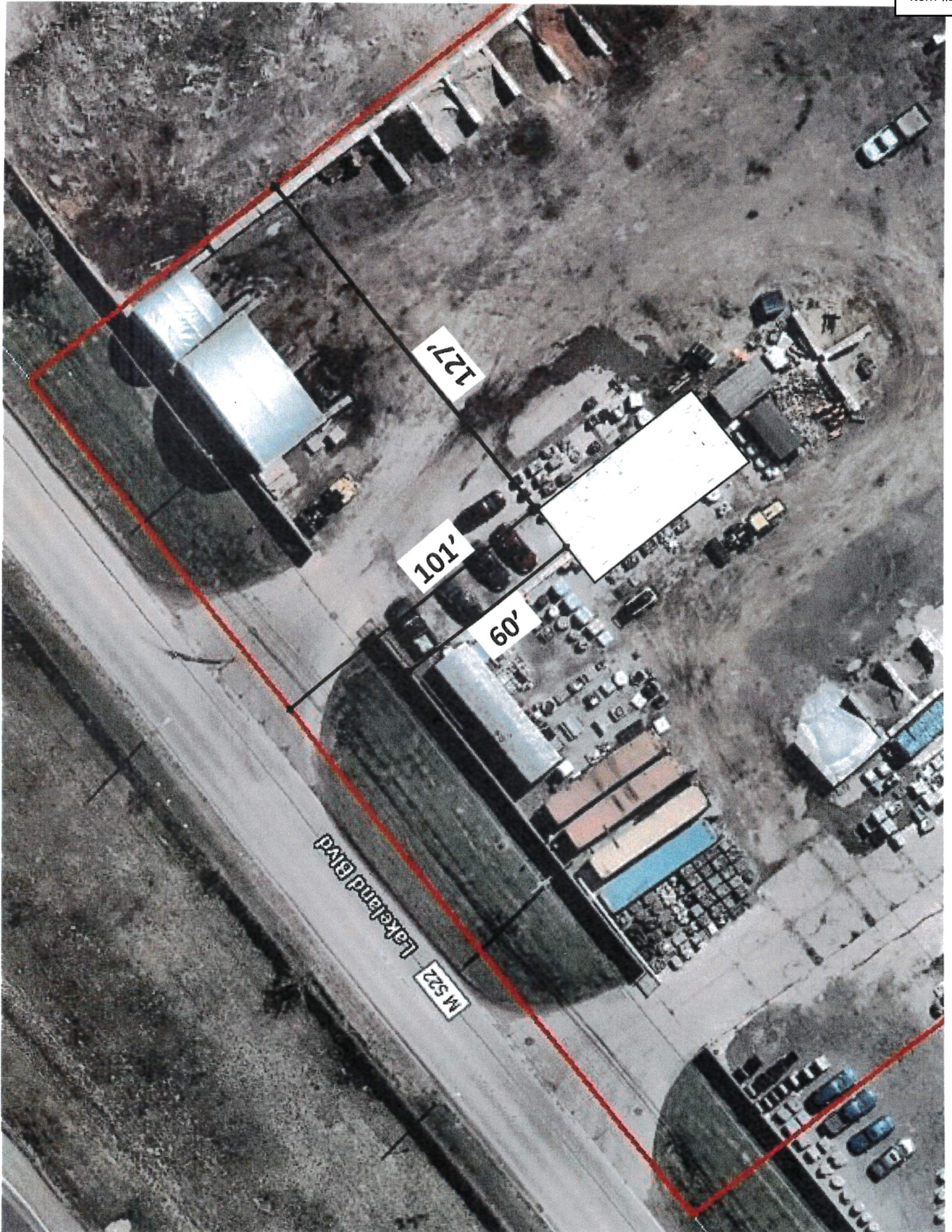
Kurtz Bros Inc. (Willowick) Letter of Intent:

We at the Kurtz Bros in Willowick Intend to bring in a new mobile office unit to our property at 32800 Lakeland Blvd. The unit will sit 101 feet from our North facing property line, 60 feet from our concrete wall and 127 feet from our East facing property line. Our current mobile office unit will be removed from the property.

The new unit has dimensions of 60'X24' with two entrances that will face West. There will be stainless steel steps that lead to the entrances. It will be placed long ways North to South on the property.

It will be hooked up to both Water and Electric. Septic will be held in a tank beneath the unit.

All specs for the unit itself are included in the site plan.

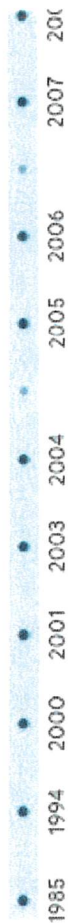




32800 lakeland



Historical Imagery < Jun 12, 2016 > |



Item #2.

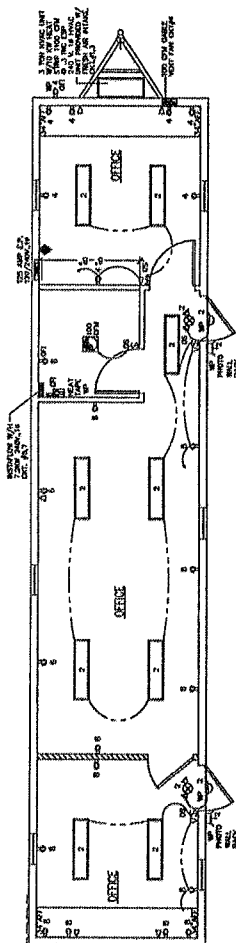
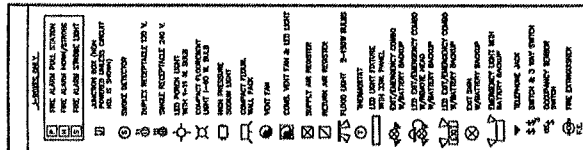
2. SOURCE :
ID NUMBER
DISCOUNT

[illegible]

27	2	SHARPOO & INVESTMENT CORPORATION FOR FLOWERS CORPORATION, NEWARK	AMERICAN NATIONAL
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Architectural floor plan of a building. The plan shows a large central hall (1) with a staircase (1) and a storage room (2). The hall is connected to various rooms, including a kitchen (2), a bathroom (3), and several bedrooms (4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100). The plan also shows a staircase (1), a storage room (2), and a utility room (3). Dimensions are given in meters (m) and centimeters (cm). The drawing is oriented with North (N) at the top.

UT CIV
JEROME HENDERSON, JR.
ED LERKIN, JR.
Sgt. J. L. ...
VALUATION INC.




NOTES:
MANUFACTURERS DATA PLATE, STATE LABELS
AND EMC LABELS ARE TO BE LOCATED
ADJACENT TO ELECTRICAL PANEL. ◆

[illegible]

R. JOHNSON
APPROVED
03 14 2025

Order No.	Quantity	Part No.	Unit Price	Amount	Remarks
1	1	100-1000	100.00	100.00	100-1000
2	1	200-2000	200.00	200.00	200-2000
3	1	300-3000	300.00	300.00	300-3000
4	1	400-4000	400.00	400.00	400-4000
5	1	500-5000	500.00	500.00	500-5000
6	1	600-6000	600.00	600.00	600-6000
7	1	700-7000	700.00	700.00	700-7000
8	1	800-8000	800.00	800.00	800-8000
9	1	900-9000	900.00	900.00	900-9000
10	1	1000-10000	1000.00	1000.00	1000-10000
11	1	1100-11000	1100.00	1100.00	1100-11000
12	1	1200-12000	1200.00	1200.00	1200-12000
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14	1	1400-14000	1400.00	1400.00	1400-14000
15	1	1500-15000	1500.00	1500.00	1500-15000
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17	1	1700-17000	1700.00	1700.00	1700-17000
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19	1	1900-19000	1900.00	1900.00	1900-19000
20	1	2000-20000	2000.00	2000.00	2000-20000
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22	1	2200-22000	2200.00	2200.00	2200-22000
23	1	2300-23000	2300.00	2300.00	2300-23000
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27	1	2700-27000	2700.00	2700.00	2700-27000
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33	1	3300-33000	3300.00	3300.00	3300-33000
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39	1	3900-39000	3900.00	3900.00	3900-39000
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42	1	4200-42000	4200.00	4200.00	4200-42000
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44	1	4400-44000	4400.00	4400.00	4400-44000
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47	1	4700-47000	4700.00	4700.00	4700-47000
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50	1	5000-50000	5000.00	5000.00	5000-50000
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52					

 **DIAMOND BUILDERS INC.**
P.O. BOX 2700
DOLAR ASS. GEORGIA 30534
440 THOMPSON DR.
(912) 394-7000

professional Certification. I hereby certify that these documents were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 21516, expiration date 6/25/2027.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF HEALTH
NADER TOMASSI
No. 0402 040686



Page 3

CONSULTING ARCHITECT
ROBERT T. ORNDORF, INC.
1008 WINDMILL AVE.
CLEARWATER, FL 33758 (727) 644-8823



NAIDER TOMASHI
No. 8226
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

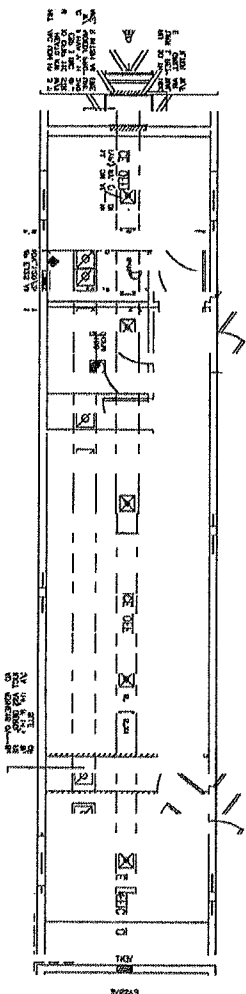
CONFIDENTIAL

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ИЗДАТЕЛЬСТВО
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И СОХРАТО Р

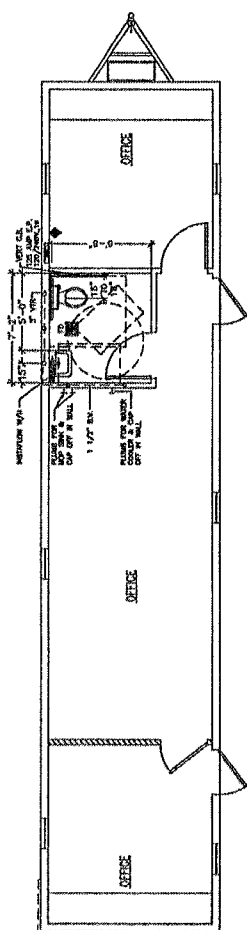
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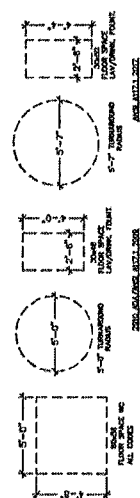


R. JOHNSON
APPROVED
03/14/2025
EMC

DIAMOND BUILDERS INC.	
P.O. BOX 2000 1400 N. HIGHWAY 101 GAINESVILLE, FLORIDA 32604	
DATE: 2-19-25	REVISION:
SCALE: NOT SCALE	NOTES:
CHECKED: SEE NOTES	DATE: 03/14/2025
DESIGNED: P.A. MC. W. JR., P.E.	NO. PLUM NO. 2025
BY: M. C. MC. W. JR., P.E.	NO. PLUM NO. 2025
DBI 12458 HE (2025)	
BUSINESS-STOCK	
PLUMBING	



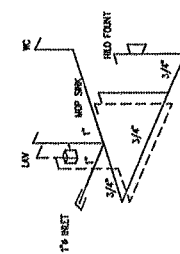
NOTES:
MANUFACTURER DATA PLATE, STATE LABELS
AND TAG LABELS ARE TO BE LOCATED
IN ACCORDANCE WITH THE
MANUFACTURER'S INSTRUCTIONS.



2025.04.14/02.0001.0001
2025.04.14/02.0001.0001
2025.04.14/02.0001.0001

DWV RISER NOTES:

1. THE DWV RISER INDICATES THE METHOD OF INSTALLATION AND THE TYPE OF MATERIAL TO BE USED. THE RISER IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. THE RISER IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
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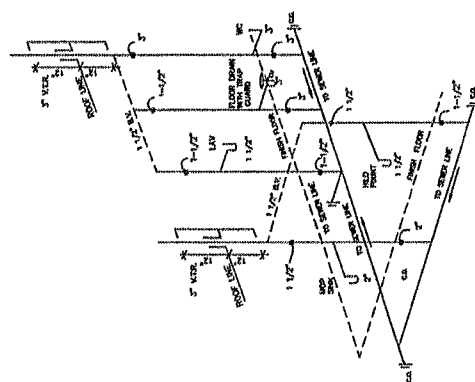
SUPPLY RISER -NTS-

NOTES:
SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE
PRESSURE OF 50-60 PSI AT INLET LOCATIONS. SHOWN AFTER
REDUCTIONS FOR WATER PRESSURE REDUCING VALVES.
CONSTRUCTION.

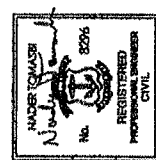
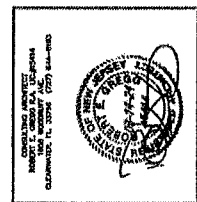
SUPPLY LINES SIZING MUST BE REDESIGNED IF THE BUILDING DOES
NOT COMPLY WITH ANY OF THE ABOVE ASSUMPTIONS.

ALL P-TEARS SHALL BE SLIP JOINT TYPE TO ALLOW DRAIN LINE CLEANOUT

ALL 3\"/>



DWV RISER NTS

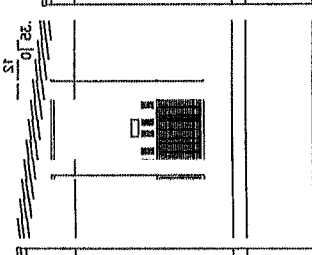


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24	4-11	11	2	10/04/11	E
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26	4-11	11	2	10/04/11	E
27	4-11	11	2	10/04/11	E
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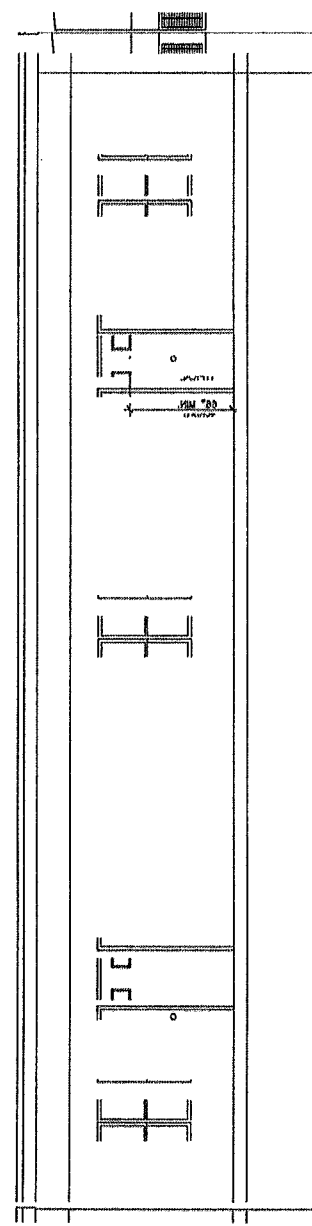
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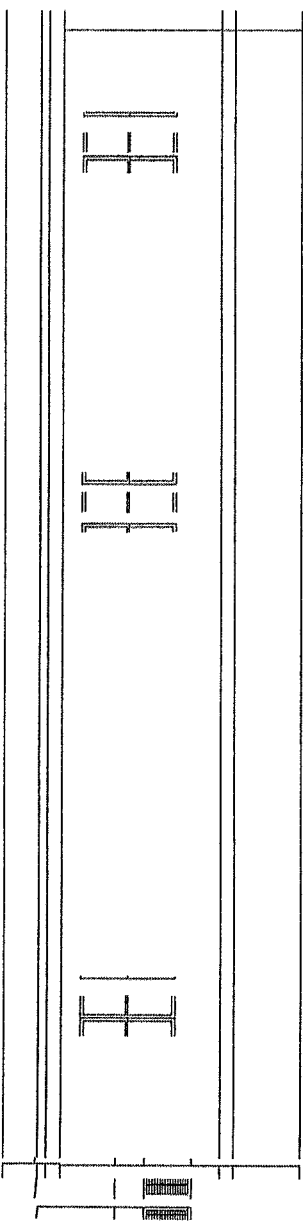
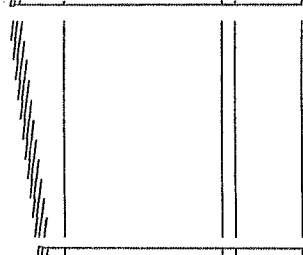
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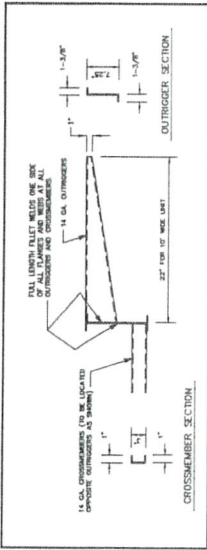


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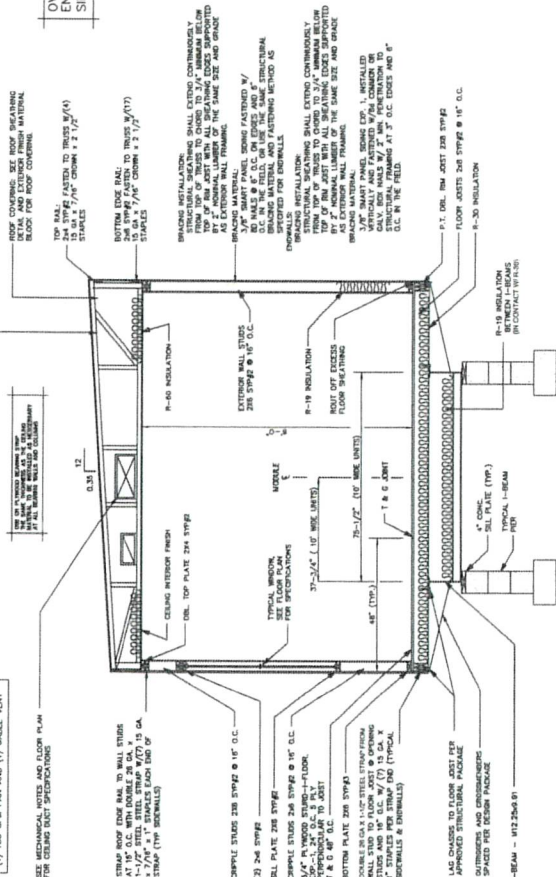
INTERIOR FINISH MATERIAL:

- 1/2" AMERICAN GYPSUM BOARD (NVL) ALPHACAL 5205 FROM MANUFACTURERS SPECIFICATION (SEASPRAY FINISH)
- 1/2" GYPSUM BOARD (NVL) COVERED MANUFACTURERS SPECIFICATIONS
- RESTROOM - FRP OVER 1/2" GYPSUM BOARD (FULL HEIGHT) INSTALLED PER MANUFACTURERS SPECIFICATIONS
- FLOOR - AS NOTED ON FLOOR PLAN

NOTE:
INTERIOR WALL AND CEILING FINISH SHALL BE CLASS B OR BETTER IN ALL AREAS EXCEPT RESTROOMS WHICH SHALL BE CLASS B OR BETTER. FLOOR FINISHES SHALL BE CLASS B OR BETTER.



NOTES: INTERIOR FINISH IS INDICATED BY:
(1) TYP. CTR. / IN. AND (2) DASH. PNT.
FOR CEILING FINISH SPECIFICATIONS



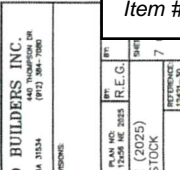
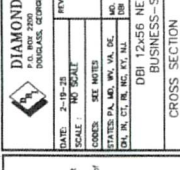
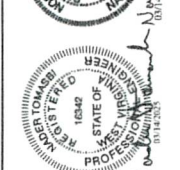
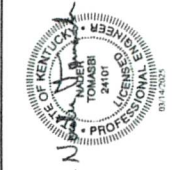
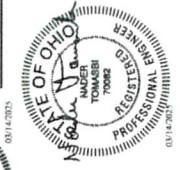
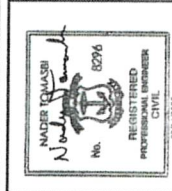
NOTE:
FOUNDATION PIER AND FOOTINGS SHOWN ARE FOR REPRESENTATION ONLY. REFER TO FOUNDATION PLAN FOR DESIGN DETAILS

EXTERIOR FINISH MATERIAL:
ROOF - HALF-HIDE 45 GR. UNFRTD EPDM (ESR-1403) FLAT APPLIED TO 2" PLY GIB OVER 1/2" 2x12 WOOD WITH MACE-HIDE PR ADHESIVE IN ACCORDANCE WITH INTEREX REPORT CORR-1076 (CLASS C ROOF)
WALL - 1/2" 1/2" SMART PANEL Siding (ESR 1300) OVER APPROVED MOISTURE BARRIER (DAUPONT TYP. ESR 2375) INSTALLED PER MANUFACTURERS SPECIFICATIONS.

GENERAL CROSS-SECTION NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A58. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A58. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A58.
2. ALL LAD SCREWS MUST COMPLY W/ ANSI / ASME B18.2.1 F 60 K5 MINIMUM
3. SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

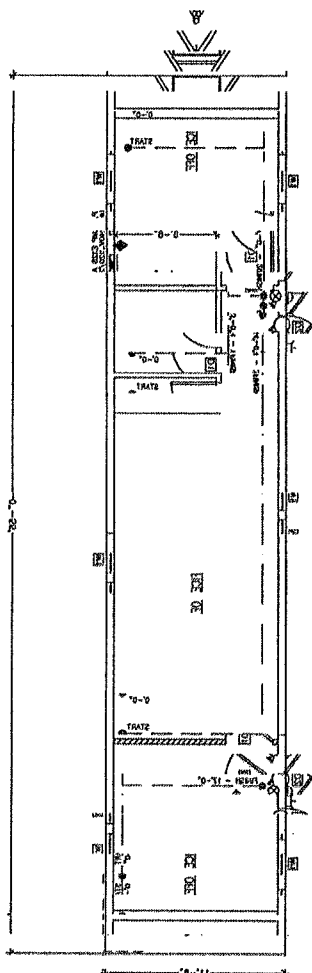
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2. ALL LAD SCREWS MUST COMPLY W/ ANSI / ASME B18.2.1 F 60 K5 MINIMUM
3. SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

R. JOHNSON
APPROVED
03 14 2025



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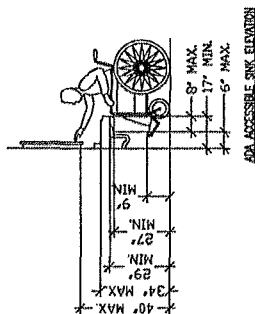
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Technical drawing of a rectangular object, possibly a component or part. The drawing shows the object with dimensions: 200 mm (width), 100 mm (height), and 100 mm (depth). A label '100' is visible on the front face. The object is shown in a perspective view, with a side view indicated by a dashed line.

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



ROAD ACCESSIBLE GINK ELEVATION

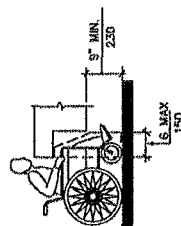
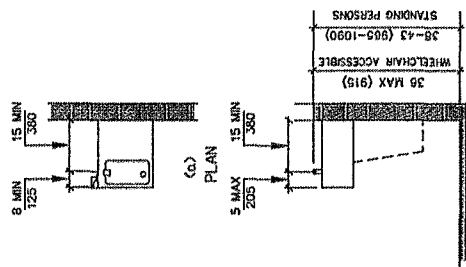
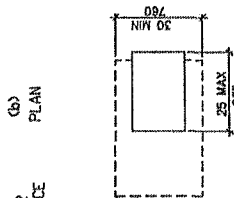
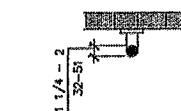


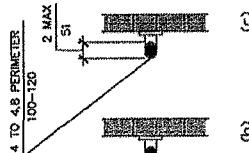
FIGURE 306.2
TIE CLEARANCE



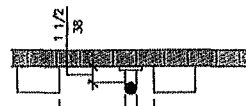
(b)
PLAN



3



2



GRAB BAR DETAIL

R. JOHNSON
APPROVED
03 14 2025

R. JOHNSON
APPROVED
03 14 2025

TYP. DRINKING FOUNT. ELEVATIONS
HEIGHTS AND CLEARANCES

THESE DETAILS ARE BASED ON 2010 ADA REQUIREMENTS

FOR BUILDINGS THAT UTILIZES OTHER ACCESSIBILITY CODES, REFER TO APPLICABLE

ALL IDEAS, DESIGNS, ARRANGEMENTS, DRAWINGS AND PLANS SET FORTH ON THIS SHEET ARE THE ORIGINAL WORK PRODUCT OF, AND OWNED BY AND ARE THE PROPERTY OF, DESIGNEE/ARTIST OF RECORD (THE LINE DRAWING) AND USE OF THIS SAID WORK PRODUCT IS LIMITED TO A SPECIFIED PURPOSE OF THE PURCHASE AND USE OF THIS SAID WORK PRODUCT. ANY OTHER USE, REUSE, REPRODUCTION, ARRANGEMENTS, OR INVENTION OF SAID PLANS OR DRAWINGS WITHOUT THE WRITTEN PERMISSION OF DESIGNEE/ARTIST OF RECORD (THE LINE DRAWING) IS STRICTLY PROHIBITED BY LAW WITHOUT THE WRITTEN PERMISSION OF THE CANTON/STATE/PROVINCE (THE LINE DRAWING).

[illegible]

Item #2.

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CONSULTING ARCHITECT
ROBERT L. GREGG P.A. INC./P3346
1005 SUGARHURST AVE.
ATLANTA, GA 30310

NADER TOMAZZI
 No. 8296
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL

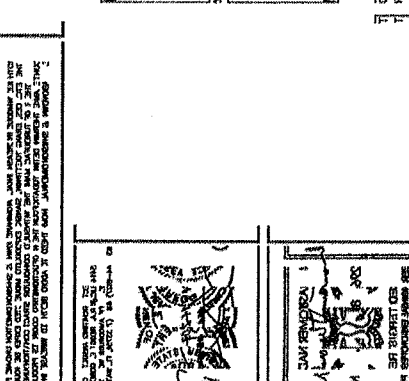
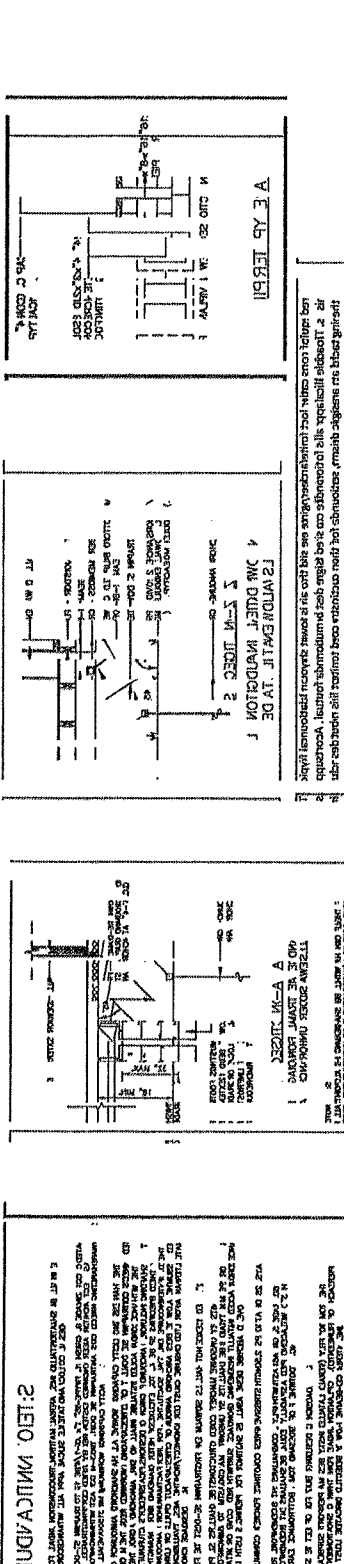
A circular professional engineer seal for the State of Connecticut. The outer ring contains the text "STATE OF CONNECTICUT" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. Inside the ring, the text "DONALD A. TOMAS" is written in a curved path, and "LICENSE NO. 2478" is written in a straight path. The seal is stamped over the signature of Donald A. Tomas.

19

COMMONWEALTH OF MASSACHUSETTS
NADER TOMMASI
No. 0402 040988
PROFESSIONAL ENGINEER

A circular professional seal for Robert Tomaszewski, a Registered Professional Engineer in the State of West Virginia. The seal features the text "ROBERT TOMASZEWSKI" around the top inner edge, "REGISTERED" at the top, "16342" in the center, "STATE OF WEST VIRGINIA" around the bottom inner edge, and "PROFESSIONAL ENGINEER" at the bottom. The seal is stamped in black ink on a document.

1. 1st Cavalry Division
2. 1st Air Cavalry
3. 1st Infantry
4. 1st Marine
5. 1st Special Forces
6. 1st Special Forces
7. 1st Special Forces

[illegible]