

SITE LOCATION MAP

SCALE: N.T.S.



PASHA TURKISH RESTAURANT

EXISTING RESTAURANT HVAC REPLACEMENT AND EXISTING PATIO COVERING

PROJECT SCOPE

REPLACEMENT OF AND ADDITION TO EXISTING HVAC EQUIPMENT AND AIR DISTRIBUTION SYSTEM AND ASSOCIATED CEILING REWORK, AND THE EXTENSION OF OVERHEAD COVER OVER EXISTING FRONT PATIO AREA.

GENERAL NOTES

THE ARCHITECT IS SOLELY RESPONSIBLE FOR THE DESIGN INTERPRETATION OF THE CONSTRUCTION DOCUMENTS.

DO NOT SCALE DRAWINGS.

VERIFY FIELD CONDITIONS AND COMPARE SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ACTIVITIES. REPORT ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED TO THE ARCHITECT.

THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS.

THE CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF BUILDING SYSTEMS AND EQUIPMENT AND VERIFY THAT REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE EQUIPMENT AND ASSOCIATED WORK ARE PROVIDED. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING SYSTEMS: MECHANICAL, ELECTRICAL, LIGHTING, PLUMBING, TELEPHONE AND SPRINKLER EQUIPMENT.

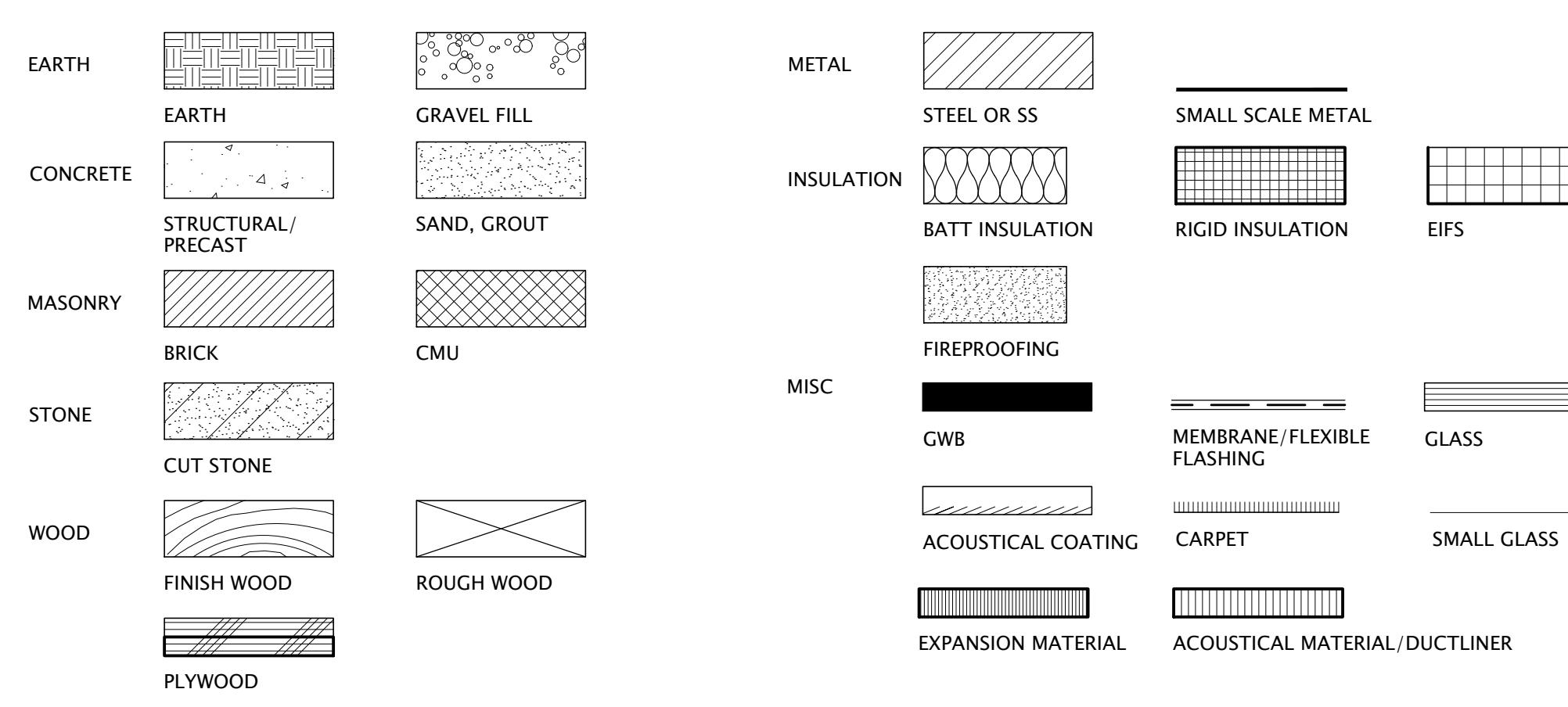
THE CONTRACTOR SHALL COORDINATE WITH ALL BUILDING TRADES INVOLVED IN THE PROJECT TO INSURE PROPER CLEARANCES FOR FIXTURES, DUCTS, CEILING, ETC., CONTRACTOR SHALL COORDINATE ALL TRADES INCLUDED TO MAINTAIN THE CEILING HEIGHTS NOTED ON THE DRAWINGS. ANY CONFLICTS SHALL BE REPORTED TO THE ARCHITECT.

FIRE EXTINGUISHER, ELECTRICAL PANELS, TELEPHONE EQUIPMENT BOARDS, ETC., SHALL BE LOCATED IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING AGENCIES. ANY LOCATIONS NOT SHOWN SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH-OUT AND INSTALLATION. UNLESS OTHERWISE NOTED, THE ABOVE PANELS AND/OR EQUIPMENT SHALL BE FULLY RECESSED AND MAINTAIN INTEGRITY OF WALL FIRE RATING REQUIREMENTS.

UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL COMPLY WITH AND GIVE NOTICES REQUIRED BY LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON PERFORMANCE OF THE WORK.

IN THE EVENT THE CONTRACTOR ENCOUNTERS ON THE SITE MATERIAL REASONABLY BELIEVED TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC MATERIAL WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION IN WRITING TO THE OWNER.

MATERIALS LEGEND



INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS:

- A.REF GENERAL REFERENCE
- A1.0 ARCHITECTURAL SITE PLAN
- A1.1 EXISTING FLOOR PLAN
- A1.2 REFLECTED CEILING PLAN
- A3.1 ROOF FRAMING, ELEVATIONS & SECTIONS/DETAILS

ELECTRICAL DRAWINGS:

- ED1.0 ELECTRICAL DEMOLITION
- E1.0 POWER & DATA PLAN
- E2.0 LIGHTING PLAN
- E3.0 RISER DIAGRAM & PANEL SCHEDULES
- E4.0 ELECTRICAL SPECIFICATIONS

MECHANICAL DRAWINGS:

- MD1.0 MECHANICAL DEMOLITION PLAN
- M1.0 MECHANICAL PLAN
- M2.0 MECHANICAL SCHEDULES & SPECIFICATIONS
- M3.0 MECHANICAL DETAILS

PLAN REVIEW DATA

GOVERNING CODES:

- BUILDING 2024 OBC
- MECHANICAL 2024 OBC
- PLUMBING 2024 OBC

OCCUPANCY CLASSIFICATION:

- A-2 / RESTAURANT OCCUPANCY
- EXISTING BUILDING CURRENTLY NON-SPRINKLERED

OBC SECTION 304.1

CONSTRUCTION TYPE:

- TYPE III B
- * EXISTING NON-SPRINKLERED

OBC TABLE 601
OBC 903.2.2 & 903.2.9

BUILD-OUT RESTRICTIONS:

TOTAL EXISTING BUILDING AREA	3,830 S.F. TOTAL
AREA OF EXISTING PATIO	630 S.F.
NUMBER OF EXITS	3

OBC TABLE 1006.2.1

- MAXIMUM TRAVEL DISTANCE 200'-0"
- MAX. COMMON PATH OF TRAVEL 75'-0"

OBC TABLE 1017.2

- OCCUPANT LOAD ASSEMBLY
- 1 PERSON / 15 N.S.F. SEATING INSIDE
- 1 PERSON / 200 S.F. KITCHEN
- 99 PEOPLE
- 5 PEOPLE

1,480 S.F. DINING AREA
970 S.F. KITCHEN AREA

- TOTAL OCCUPANT CAPACITY (INSIDE) 104

PLUMBING REQUIREMENTS:

- WATER CLOSETS: 1 PER 75 - 2 REQUIRED FOR EACH
- LAVATORY: 1 PER 200 - 1 REQUIRED FOR EACH
- DRINK FOUNTAIN: 1 PER 100' - WATER IS PROVIDED
- SERVICE SINK: 1 SERVICE SINK - 1 REQUIRED

OBC TABLE 2902.1

*TOILETS ARE EXISTING TO REMAIN

PROJECT TEAM

CLIENT:

PASHA TURKISH
CONTACT: JON MOIZZI
3164 VINE STREET
WILLOWICK, OH 44095

ARCHITECTURAL:

MAISON A+D
32110 DEERFIELD DRIVE
AVON LAKE, OHIO 44012
CONTACT: DAVID MAISON
EMAIL: DAVID@MAISONDESIGN.CO

P 216 832 3434

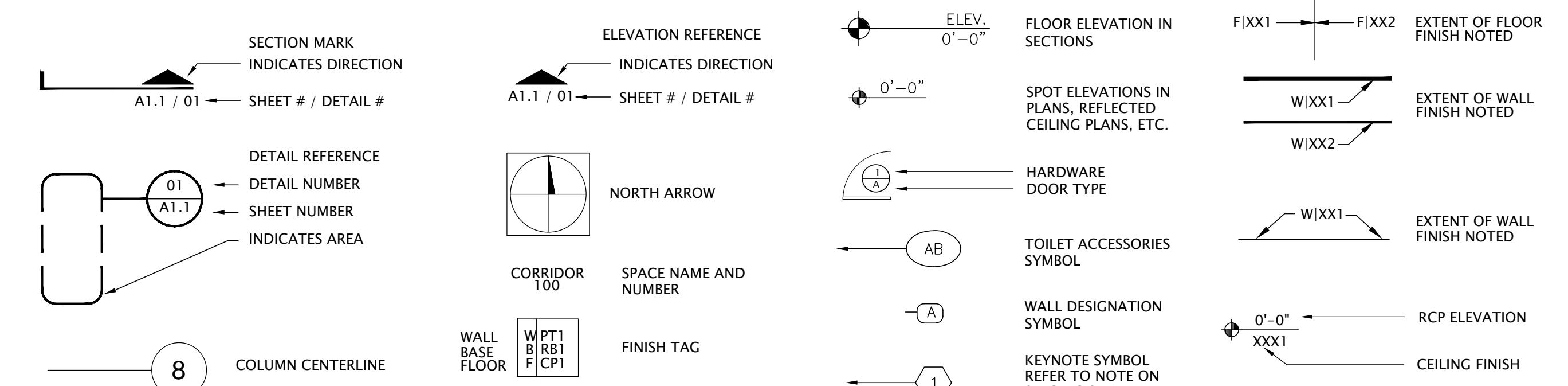
MECHANICAL / ELECTRICAL / PLUMBING:

HENGST STREFF BAIKO ARCHITECTS
1250 OLD RIVER ROAD SUITE 201
CLEVELAND, OHIO 44113
CONTACT: PETER J KAMIS, PE
E-MAIL: PKAMIS@HSBARCH.COM

P 216 586 0229

F 216 586 0440

SYMBOL LEGEND



A
REF

LOCATION PLAN/
GENERAL REFERENCE



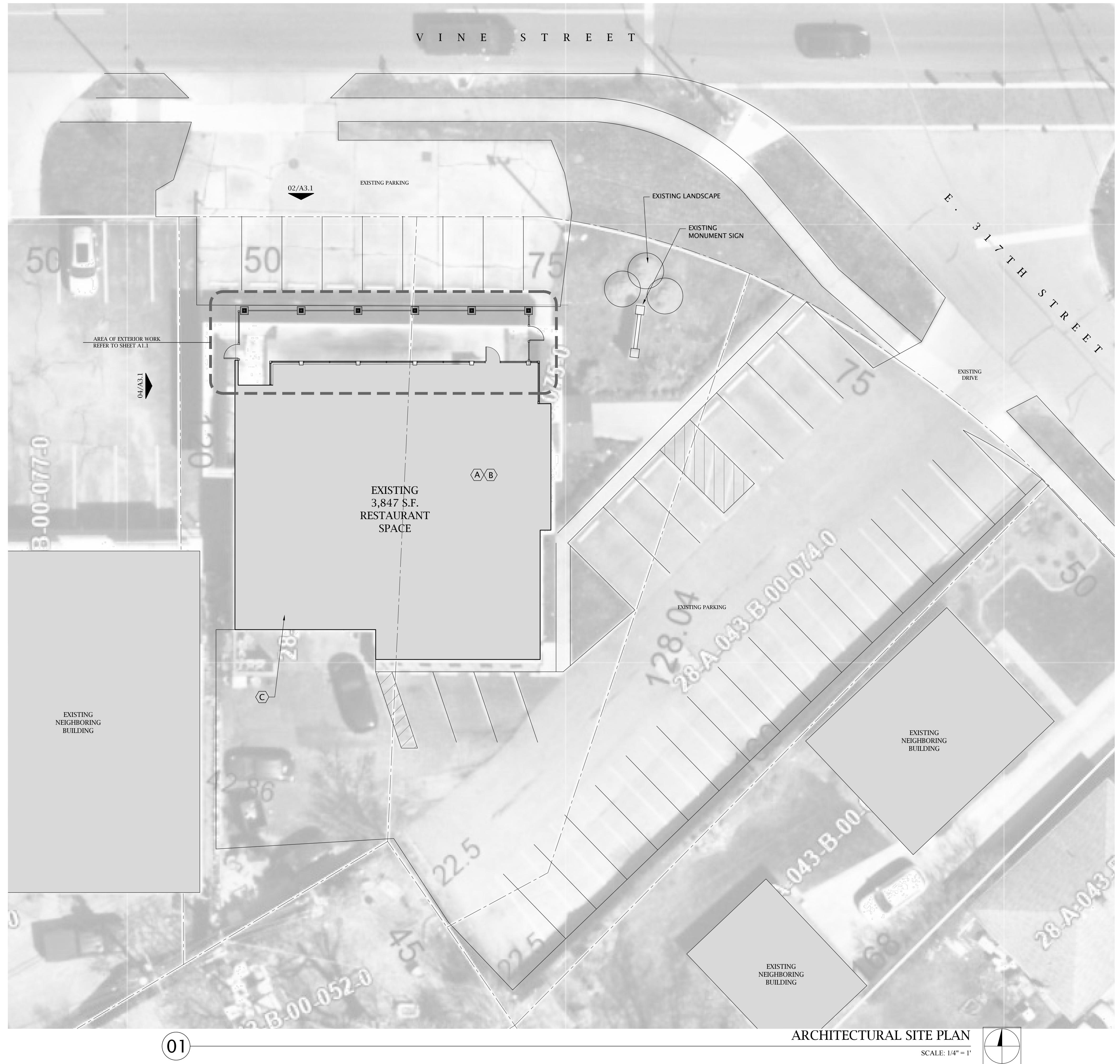
DAVID J. MAISON
LICENSE #13098
EXP. DATE 12/31/2025

GENERAL SITE PLAN NOTES

1. EXISTING SITE DRAINAGE TO BE MAINTAINED
2. TOTAL IMPERVIOUS AREA IS UNCHANGED

SITE PLAN KEYED NOTES

- A** REPLACE EXISTING ROOF TOP UNITS WITH NEW - REF. MECHANICAL PLANS
- B** REMOVE EXISTING ROOFING TO DECKING AND PROVIDE NEW:
MECHANICALLY FASTENED TPO ROOFING; OVER R-30 AVERAGE TAPERED
INSULATION; TAPER TO EXISTING ROOF DRAINS - REF. A1.1
- C** LOCATION OF EXISTING ELECTRICAL SERVICE ENTRANCE



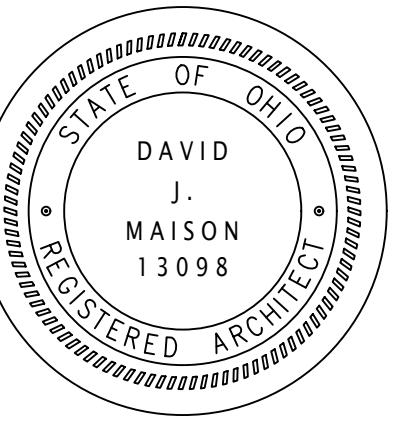
PASHA TURKISH KITCHEN EXISTING BUILDING RENOVATION

31640 VINE STREET
WILLOWICK OHIO 44095

ERMIT JUNE 13 2025
JECT : PTK625

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1.0

SITE PLAN



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PASHA TURKISH KITCHEN
EXISTING BUILDING RENOVATION

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LIGHTING LEGEND

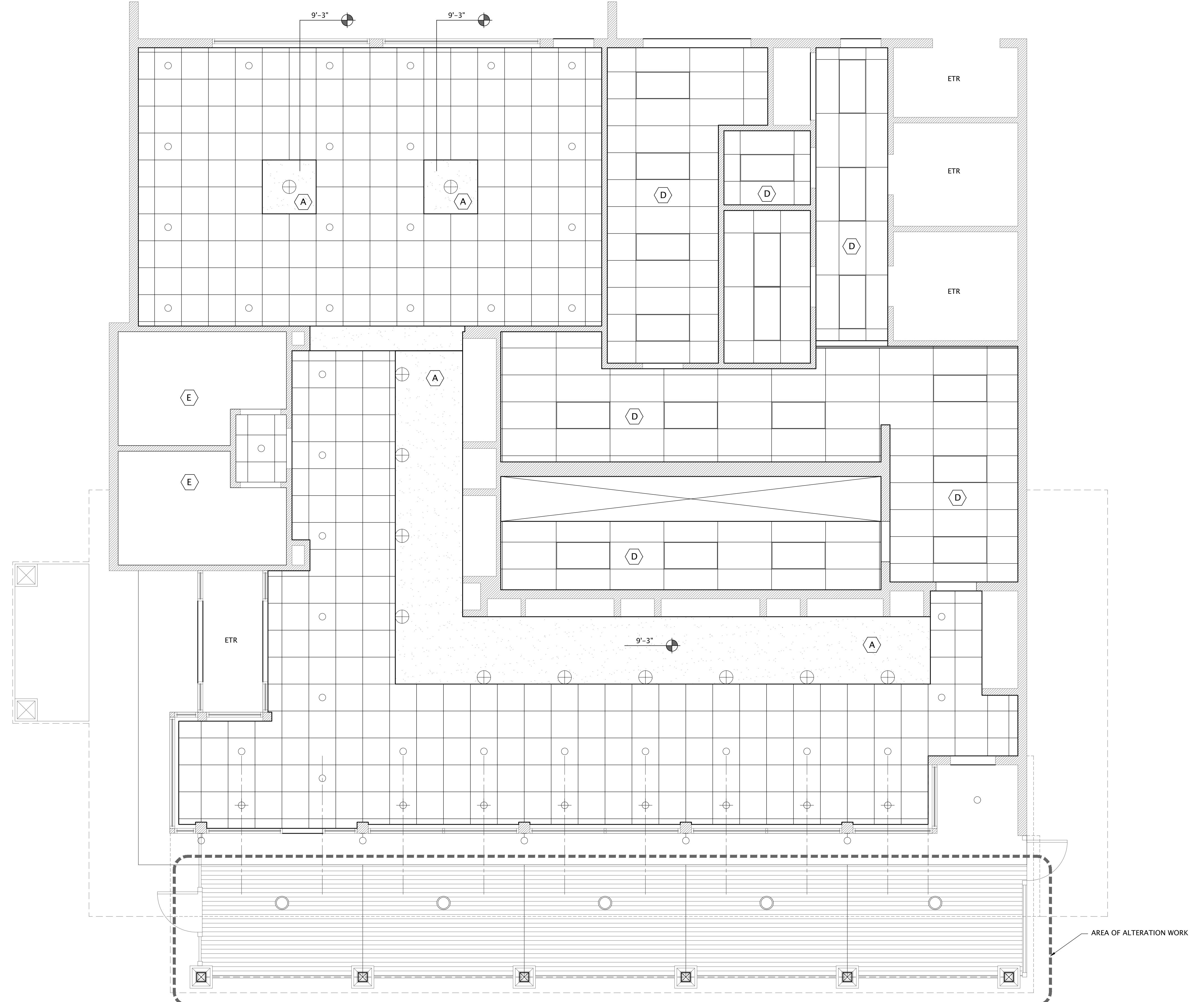
- FLUSH MOUNT
- DOWNLIGHT
- EXTERIOR SCONCE
- 2X4 KITCHEN GRADE LIGHT FIXTURE

PLAN GENERAL NOTES

REMOVE AND RE-INSTALL EXISTING LIGHTING WHERE POSSIBLE
HOLD ACT CEILING TIGHT TO DUCTWORK, TYPICAL

PLAN KEYED NOTES

- A GWB CEILING
- B WHITE SOFFIT MATERIAL OVER NEW COVERED PATIO
- C EXISTING STUCCO SOFFIT TO REMAIN
- D NEW ACT SYSTEM, MATCH EXISTING
- E EXISTING GYP & LIGHTING TO REMAIN, TYP BOTH RESTROOMS



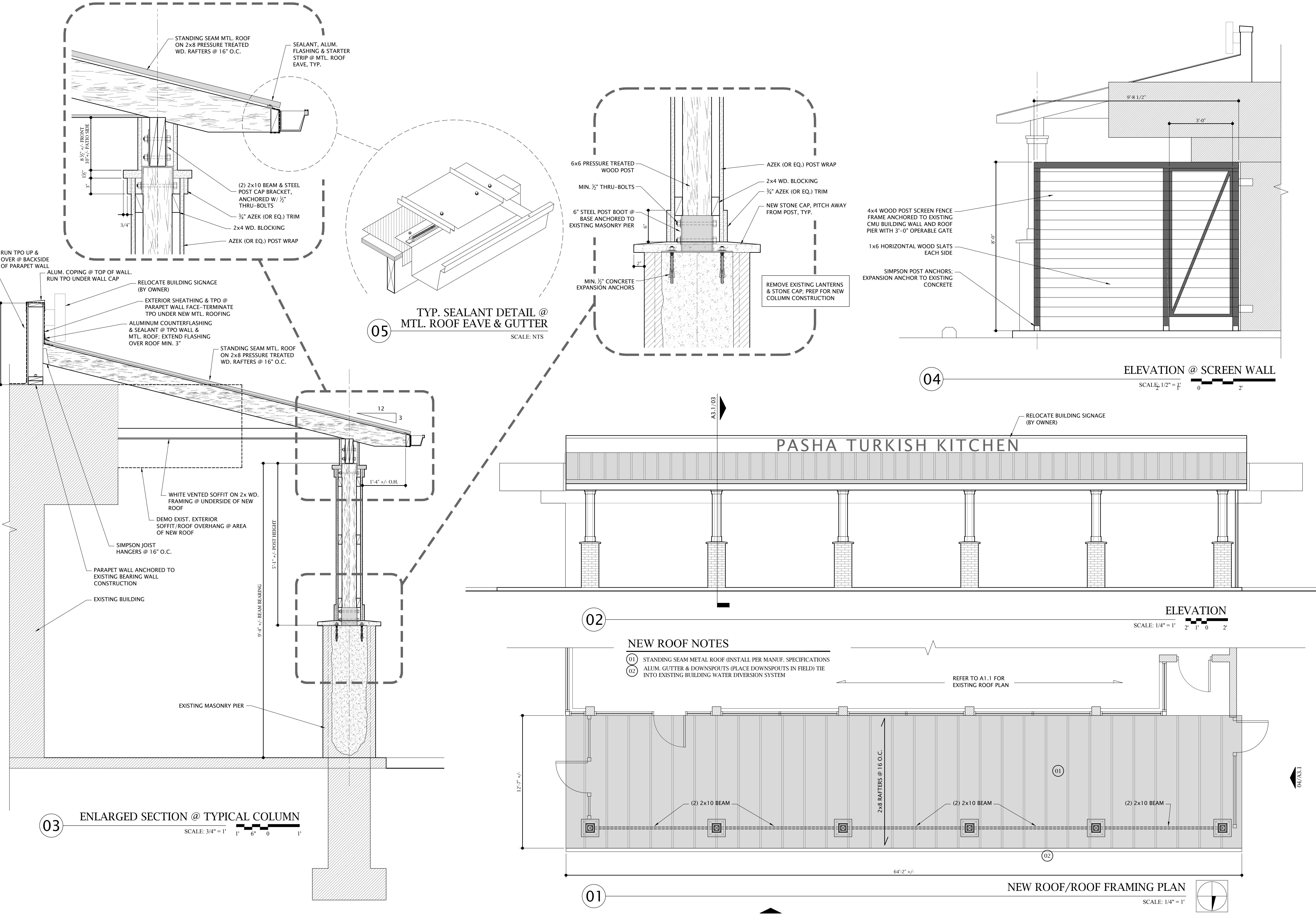
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PASHA TURKISH KITCHEN
EXISTING BUILDING RENOVATION

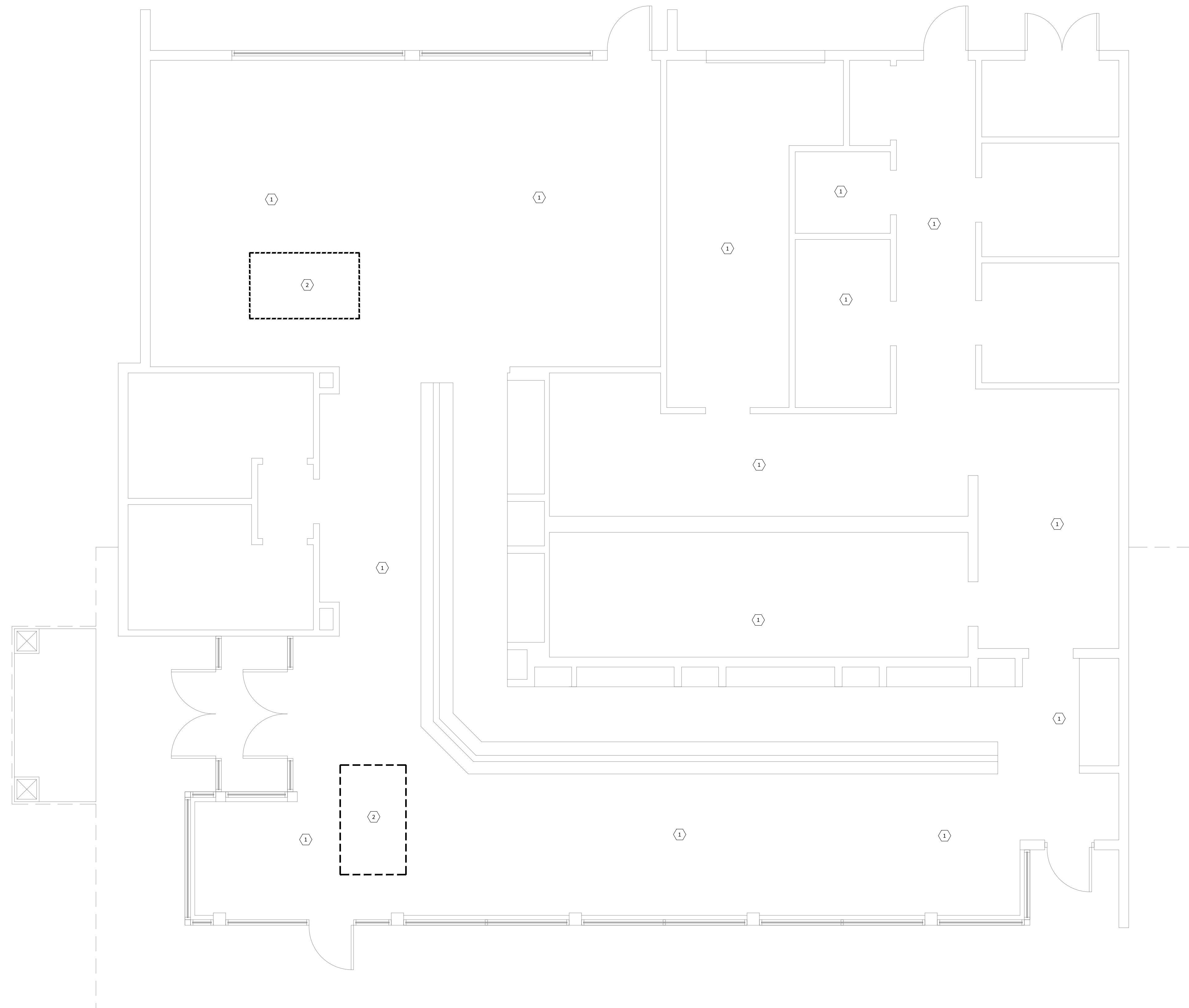
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PTK625

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3.1

ROOF FRAMING,
ELEVATIONS &
SECTIONS/DETAILS



ELECTRICAL DEMOLITION PLAN

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

1
ED1.0

CODED NOTES:

UNLESS INDICATED OTHERWISE, IN THIS ROOM/AREA: REX LIGHTING FIXTURES, EXIT SIGNAGE, EMERGENCY LIGHTING AND ASSOCIATED INTERCONNECTION CIRCUITING. SALVAGE LIGHTING BRANCH CIRCUITING TO THE EXTENT REQUIRED TO SERVE NEW LIGHTING LAYOUT. SALVAGE PENDANT AND CHANDELIER FIXTURES FOR REINSTALLATION.

(1) REX ELECTRICAL FEED(S) SERVING ROOF TOP UNIT BACK TO SOURCE AND MAKE SAFE. TAG ALL UNUSED CB'S AS SPARE.



MAISONY A+D
ARCHITECTURE & DESIGN CLEVELAND, OH

32210 DERFIELD DR.
AVON LAKE, OHIO 44012
PHONE: 216.832.3434

PASHA TURKISH KITCHEN
EXISTING BUILDING RENOVATION

31640 VINE STREET
WILLOWICK, OHIO 44095



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DEMOLITION PLAN

PASHA TURKISH KITCHEN
EXISTING BUILDING RENOVATION

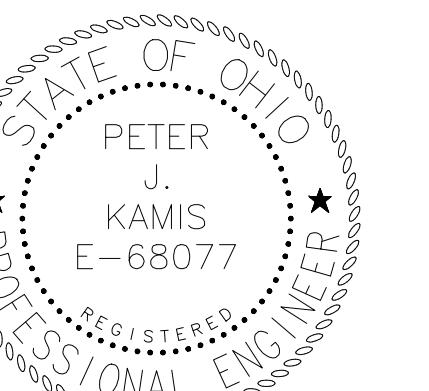
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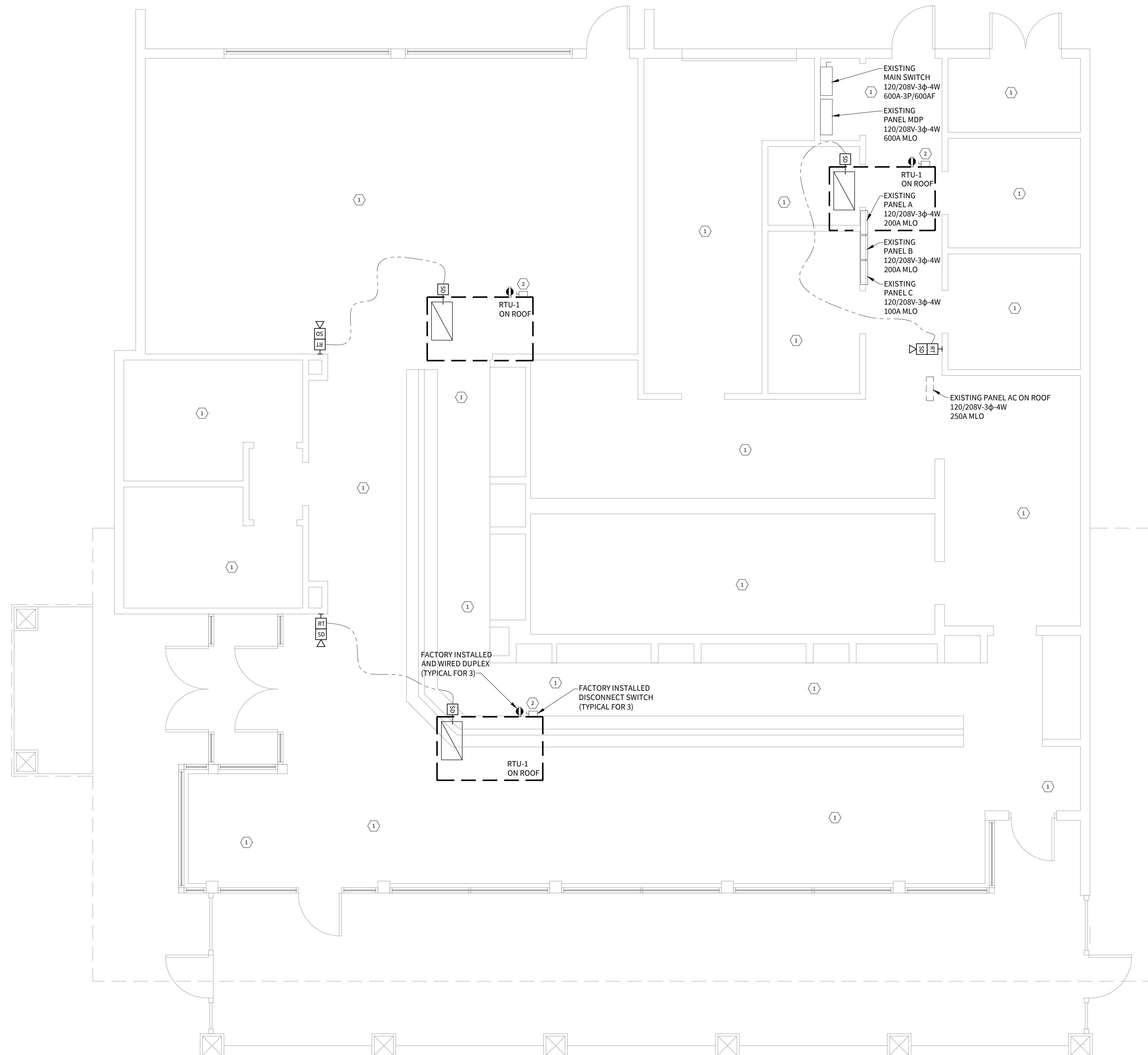
ARCHITECTS
+ ENGINEERS

1250 OLD RIVER ROAD SUITE 201

CLEVELAND, OH 44113 216.586-0229



PETER J. KAMIS, PE
LICENSE #68077
EXP. DATE 12/31/2025



CODED NOTES:

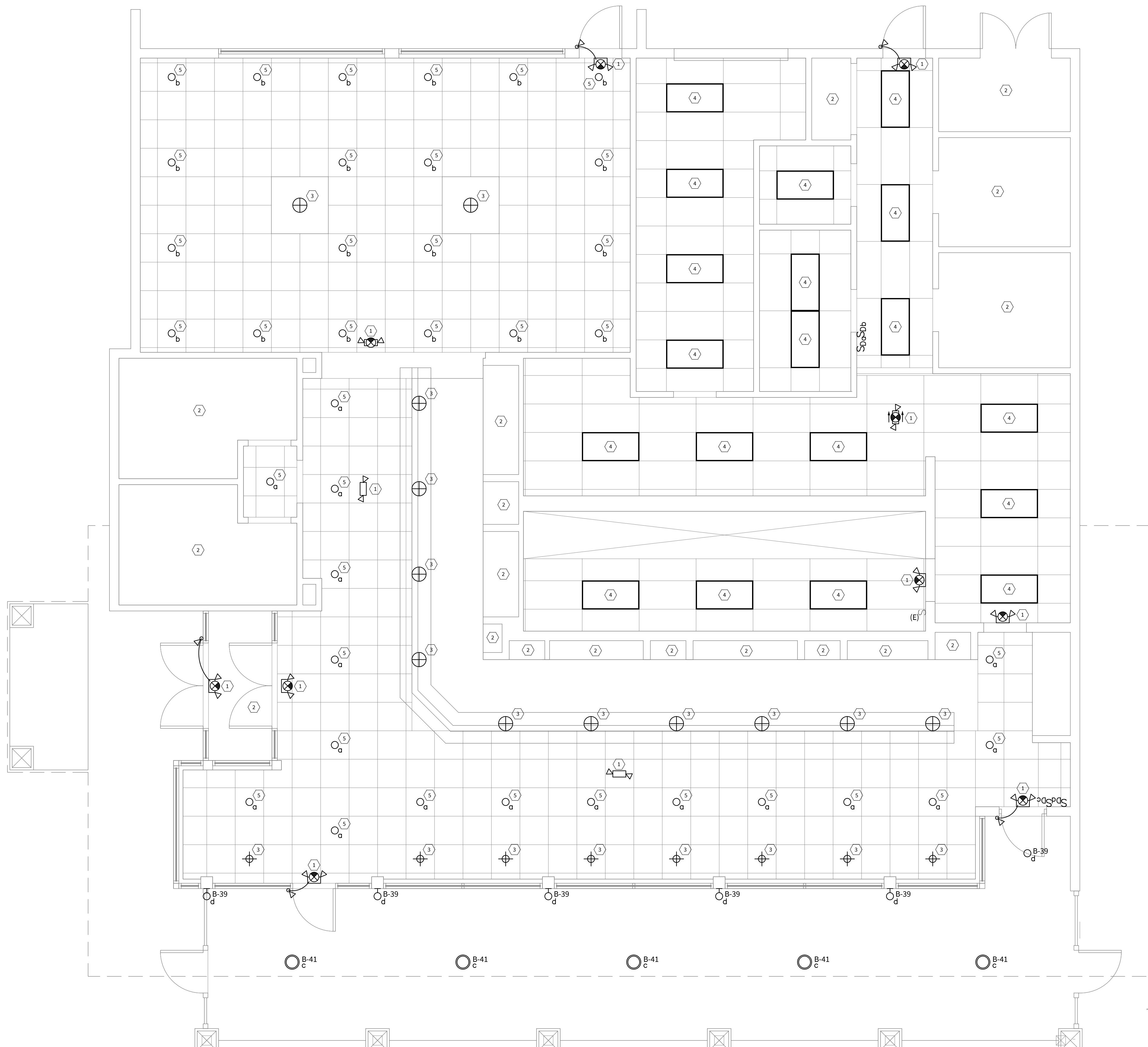
① UNLESS INDICATED OTHERWISE, IN THIS ROOM/AREA: RECEPTACLES, EQUIPMENT CONNECTIONS, TELE/DATA OUTLETS, ASSOCIATED CABLING, AND ASSOCIATED CIRCUITING TO REMAIN AS-IS.

② WIRE TO NEW 45A-3P CB IN EXISTING PANEL AC.
CCT: 3#6 + 1#10 GND IN 3/4" C.



PASHA TURKISH KITCHEN
EXISTING BUILDING RENOVATION

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WILLOWICK, OHIO 44095



LIGHTING PLAN

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

1

E2.0

CODED NOTES:

- ① CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF LOCAL SWITCHING
- ② UNLESS INDICATED OTHERWISE, IN THIS ROOM/AREA; LIGHTING FIXTURES, EMERGENCY LIGHTING, EXIT SIGNS, SWITCHING, AND ASSOCIATED CIRCUITING TO REMAIN AS-IS.
- ③ PENDANT OR CHANDELIER FIXTURE SALVAGED FROM DEMOLITION AND REINSTALLED AT THIS LOCATION. MAINTAIN BRANCH CIRCUITING AND CONTROLS.
- ④ WIRE NEW FIXTURE TO BRANCH CIRCUITING SALVAGED FROM DEMOLITION. MAINTAIN CONTROLS.
- ⑤ WIRE NEW FIXTURE TO BRANCH CIRCUITING SALVAGED FROM DEMOLITION. PROVIDE NEW CONTROLS SHOWN.

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PANEL: AC

LOAD	WATTAGE			BKR			CKT NO	WATTAGE			LOAD		
	Ø A	Ø B	Ø C	AMP	P	CKT NO		AMP	P	Ø A		Ø B	Ø C
3300	3300	3300	45	3	3	1	45	3	3300	3300	3300	NEW RTU-1	
SPARE	-	-	15	1	7	5	10	45	3	3300	3300	3300	NEW RTU-1
EXISTING LOAD	500	20	2	11		12	10	45	3	3300	3300	3300	NEW RTU-1
500	500	500	20	2	15	14	20	3	500	500	500	EXISTING LOAD	
EXISTING LOAD	500	500	500	20	2	15	16	20	3	500	500	500	EXISTING LOAD
500	500	500	20	3	21	18	20	3	1500	1500	1500	EXISTING LOAD	
EXISTING LOAD	500	500	500	20	3	21	22	30	3	1500	1500	1500	EXISTING LOAD
1500	1500	1500	20	3	27	24	20	3	1500	1500	1500	EXISTING LOAD	
EXISTING LOAD	1500	1500	1500	30	3	27	26	30	3	1500	1500	1500	EXISTING LOAD
						30							1500
WATTS: Ø A:	15900	AMPS:	133.9	NOTES: EXISTING PANEL ON ROOF. RE-USE EXISTING CB'S									
Ø B:	15900	FEEDER:	EXISTING	TO THE EXTENT POSSIBLE, PROVIDE									
Ø C:	16400	FED FROM:	SEE RISER	NEW CB'S AS REQUIRED.									
TOTAL:	48200												

PANEL: B

LOAD	WATTAGE			BKR			CKT NO	WATTAGE			LOAD	
	Ø A	Ø B	Ø C	AMP	P	CKT NO		AMP	P	Ø A		Ø B
7800	7800	7800	100	3	3	1	20	1	500	500	500	EXISTING REC LOAD
EXISTING PANEL C	3000	3000	40	2	7	5	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	3000	3000	20	1	12	8	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	12	14	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	15	16	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	17	18	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	19	20	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	21	22	20	1	500	500	500	EXISTING LOAD
EXISTING REC LOAD	500	500	20	1	23	24	20	1	500	500	500	EXISTING LOAD
EXISTING REC LOAD	500	500	20	1	27	28	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	29	30	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	31	32	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	33	34	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	35	36	20	1	500	500	500	EXISTING LOAD
EXISTING LOAD	500	500	20	1	37	38	20	1	500	500	500	EXISTING LOAD
NEW EXTERIOR LIGHTING	155	20	1	39	40							SPACE
NEW EXTERIOR LIGHTING/FANS	1000	20	1	41	42							SPACE
WATTS: Ø A:	16800	AMPS:	130.7	NOTES: EXISTING PANEL. RE-USE EXISTING CB'S								
Ø B:	15955	FEEDER:	EXISTING	TO THE EXTENT POSSIBLE, PROVIDE								
Ø C:	14300	FED FROM:	SEE RISER	NEW CB'S AS REQUIRED.								
TOTAL:	47055											

EXISTING PANEL AC
120/208V-3Ø-4W
250A MLO

EXISTING PANEL C
120/208V-3Ø-4W
100A MLO

EXISTING PANEL B
120/208V-3Ø-4W
200A MLO

EXISTING PANEL A
120/208V-3Ø-4W
200A MLO

EXISTING MAIN SWITCH
120/208V-3Ø-4W
600A-3P/600A-F

EXISTING UTILITY METER (M)

EXISTING PULL BOX CT CABINET

EXISTING PANEL MDP
120/208V-3Ø-4W, 600A MLO

FROM EXISTING UTILITY POLE MOUNTED XFRMR BANK

PARTIAL RISER DIAGRAM

SCALE: NTS E3.0

E
3.0

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RISER DIAGRAM AND
PANEL SCHEDULES

ELECTRICAL SYMBOLS

○	DOWNGLIGHT. SEE ARCH DRAWINGS FOR DETAILS.
⊕	PENDANT. SEE ARCH DRAWINGS FOR DETAILS.
↙ ↘ ↙ ↘	TRACK LIGHTING SYSTEM. SEE ARCH DRAWINGS FOR DETAILS.
↑	EMERGENCY LIGHTING UNIT BATTERY PACK, WALL MOUNTED
△	EMERGENCY LIGHTING UNIT BATTERY PACK, CEILING MOUNTED
↗ ↘ ↗ ↘	EMERGENCY LIGHTING UNIT/EXIT SIGN COMBO, WALL MOUNTED
↗ ↘ ↗ ↘	EMERGENCY LIGHTING UNIT/EXIT SIGN COMBO, CEILING MOUNTED
☒	6V EMERGENCY LIGHTING REMOTE FIXTURE. TWO(2) 1.5W LED LAMPS. CONNECT TO LOW-VOLTAGE SIDE OF BATTERY UNIT. WET LOCATION LISTED.
☒	EXIT SIGN, PROVIDE DIRECTIONAL ARROWS AS SHOWN
S	SWITCH, SPST, 120/277VAC, 20A, MTD @ 48" AFF UNLESS OTHERWISE INDICATED
S ₃	SWITCH, 3-WAY, 120/277VAC, 20A, MTD @ 48" AFF UNLESS OTHERWISE INDICATED
S _D	SWITCH, DIMMER, MTD @ 48" AFF UNLESS OTHERWISE INDICATED. PROVIDE DIMMER TYPE PER REQUIREMENTS OF FIXTURE CONTROLLED.
—	CONDUIT CONCEALED IN CEILING OR WALL
---	CONDUIT CONCEALED IN OR BELOW FLOOR
—○	CONDUIT AND/OR CIRCUIT TURNED UP
—●	CONDUIT AND/OR CIRCUIT TURNED DOWN
—	CONDUIT STUBBED UP TO ACCESSIBLE CEILING SPACE, PROVIDE PULL STRING
x	CIRCUIT HOMERUN, 'x' INDICATES PANEL, 'y' INDICATES CIRCUIT NUMBER
x/y/z	DISCONNECT SWITCH, 'x' INDICATES FRAME SIZE, 'y' INDICATES POLES, 'z' INDICATES FUSE SIZE, NF INDICATES NON-FUSED.
☒	COMBINATION STARTER
S _{MP}	TOGGLE OPERATED 115/230V FRACTIONAL HORSEPOWER MANUAL MOTOR SWITCH WITH INDICATING LIGHT, OVERLOAD PROTECTION AND HANDLE GUARD/LOCK-OFF. SQUARE-D CLASS 2510.
○	SINGLE PHASE MOTOR CONNECTION
□	3-PHASE MOTOR CONNECTION

PLAN NOTES

- FIELD VERIFY MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WHICH MAY INTERFERE WITH THE PROPER INSTALLATION OF NEW WORK.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES AND/OR DAMAGED EXISTING BASE BUILDING WORK WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF NEW WORK.
- ALL EXIT SIGNS, NIGHT LIGHTS, EMERGENCY LIGHTING UNITS, AND EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO CIRCUIT AHEAD OF LOCAL SWITCHING. CONNECT TO THE LIGHTING CIRCUIT SERVING THE AREA SERVED BY THE EXIT AND/OR EMERGENCY LIGHTING UNIT.
- EXISTING SYSTEMS, DEVICES, FIXTURES, CIRCUITING, ETC. THAT ARE SHOWN ON THESE PLANS ARE BASED ON VISUAL INSPECTION AND/OR AS-BUILT DRAWINGS, BUT MAY NOT REFLECT THE ACTUAL CONDITIONS IN EVERY CASE. THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND EXAMINE THE WORK BEFORE SUBMITTING HIS PROPOSAL. HE SHALL NOTE THE EXISTING CONDITIONS, THE EXTENT OF HIS WORK, AND INTERFERENCE BY OTHER TRADES WITH HIS WORK. ANY DISCREPANCIES SHOULD BE DISCUSSED WITH THE ARCHITECT OR ENGINEER.
- CIRCUITING SHOWN TO EXISTING PANELS IS SHOWN ON DRAWINGS FOR INDICATING INTENT ONLY. FIELD VERIFY EXISTING CIRCUITING, EXISTING CIRCUIT NUMBERS AND/OR SPARES, AND SPACES AVAILABLE IN PANELS. UNLESS INDICATED OTHERWISE, EXISTING CIRCUITS BEING FED FROM EXISTING CB'S SHALL REMAIN. IF A CIRCUIT NUMBER SHOWN ON THE DRAWING INDICATES CIRCUITING TO A CB REQUIRED TO SERVE AN EXISTING CIRCUIT, USE THE NEXT AVAILABLE CB OF THE SIZE AND CONFIGURATION REQUIRED. IF EXISTING CB IS NOT AVAILABLE, PROVIDE NEW CB IN EXISTING PANEL SPACE AS REQUIRED. FIELD VERIFY EXISTING PANELS HAVE ADEQUATE CAPACITY TO HANDLE ADDITIONAL LOADS.
- RACEWAY PASSING FROM THE INTERIOR TO THE EXTERIOR OF THE BUILDING SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY.
- CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS (AMPLIFIERS, REPEATERS, EXPANDER PANELS, ETC.) AND/OR PROGRAMMING TO INTERFACE WITH AND/OR EXTEND THE EXISTING FIRE ALARM SYSTEM AND TO COORDINATE WITH EXISTING FIRE ALARM MANUFACTURER.

ELECTRICAL SPECIFICATIONS

- THE GENERAL CONDITIONS OF THE CONTRACT, THE SUPPLEMENTARY CONDITIONS, ELECTRICAL DRAWINGS, MECHANICAL DRAWINGS, ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, THE FOLLOWING SPECIFICATIONS, SHOP DRAWINGS, AND ANY ADDENDUMS TO THE ABOVE ARE PART OF THE CONTRACT FOR THE WORK. WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND ARCHITECT. AS-BUILT DRAWINGS SHALL BE PROVIDED.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR UNNOTICED FIELD CONDITIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED TO PERFORM THE ELECTRICAL WORK.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE LOCATIONS OF ELECTRICAL DEVICES, EQUIPMENT, FIXTURES AND THE METHOD OF CONNECTION. MATERIALS NOT SPECIFICALLY INDICATED BUT ESSENTIAL TO COMPLETE THE WORK SHALL BE INCLUDED.
- "PROVIDE" SHALL MEAN FURNISH EQUIPMENT, ASSOCIATED APPURTENANCES, AND INSTALL SAME.
- SCOPE

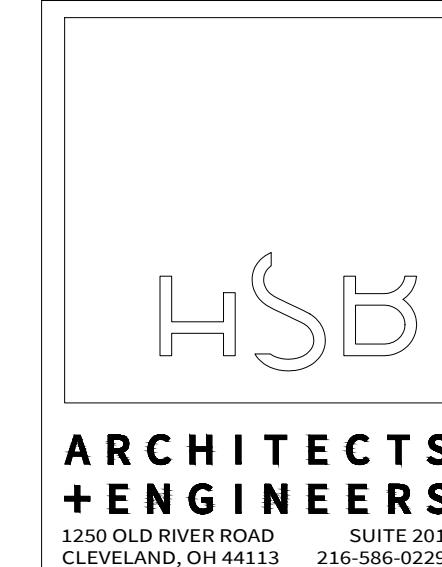
THE SCOPE OF WORK SHALL INCLUDE, BUT IS NOT LIMITED TO:

 - CONDUIT, BRANCH CIRCUITS, OUTLETS AND WIRING.
 - LIGHTING FIXTURES, LAMPS, MOUNTING HARDWARE, SWITCHES, CONDUIT AND WIRING.
 - EMERGENCY LIGHTING INCLUDING TESTING.
 - EXTENSION OF AND/OR RECONFIGURATION OF EXISTING POWER DISTRIBUTION SYSTEM.
 - DATA/TELEPHONE OUTLETS, CONDUITS AND PULL WIRES.
 - ALL CHANNELING AND CONCRETE PATCHING WORK REQUIRED FOR ELECTRICAL WORK EXCLUSIVELY.
 - RECONNECTION, AS REQUIRED INCLUDING CONDUIT AND WIRE, OF ALL BRANCH CIRCUITS CUT OFF BY DEMOLITION OF EXISTING PARTITIONS, ETC.
 - NECESSARY CABINETS, JUNCTION BOXES, AND PULL BOXES.
 - TEMPORARY CONSTRUCTION POWER AND LIGHTING TO ACCOMMODATE ALL TRADES.
 - GROUNDING OF ALL SYSTEMS AND EQUIPMENT.
 - ELECTRICAL CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL, PLUMBING CONTRACTOR, AND/OR OWNER/TENANT. FIELD VERIFY VOLTAGE, CURRENT, AND CONNECTION REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ROUGH-IN. NOTIFY ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT IS ACTUALLY REQUIRED. ALSO PROVIDE, LINE VOLTAGE CIRCUITING FOR AND FINAL CONNECTION TO CONTROLS TRANSFORMER(S), CONTROLS TRANSFORMER(S) AND LOW VOLTAGE CONTROLS CABLING BY MECHANICAL AND/OR PLUMBING CONTRACTOR.
 - ELECTRICAL CONNECTION TO EQUIPMENT PROVIDED BY KITCHEN/BAR EQUIPMENT SUPPLIER. FIELD VERIFY VOLTAGE, CURRENT, AND CONNECTION REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ROUGH-IN. NOTIFY ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT IS ACTUALLY REQUIRED.
- ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND BEAR UL LABELS AND LISTINGS. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO ORDERING FOR PROJECT.
- COORDINATE WORK WITH OTHER TRADES FOR SPACE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONDUIT
 - SUPPORT CONDUIT FROM BUILDING STRUCTURE ONLY. INSTALL 1/16" PULL STRING IN ALL EMPTY CONDUITS. NO PVC SHALL BE PERMITTED ABOVE GRADE WITHIN THE BUILDING.
 - USE TYPE MC CABLE FOR FISHING NEW CIRCUITS THROUGH EXISTING WALLS AND FOR LIGHTING FIXTURE WHIPS. FLEXIBLE METAL CONDUIT SHALL BE USED FOR THE FINAL CONNECTION TO TRANSFORMERS AND MOTORS. FLEXIBLE LIQUID-TIGHT CONDUIT SHALL BE USED FOR FINAL CONNECTION TO ALL HARD-WIRED EQUIPMENT.
 - ABOVE GRADE INTERIOR DRY LOCATION CONDUIT SHALL BE ELECTRICAL METALLIC TUBING(EMT) WITH SET SCREW FITTINGS CONCEALED IN WALLS OR ABOVE CEILINGS.
 - ABOVE GRADE EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT(RMC) WITH THREADED FITTINGS.
 - BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 RIGID NONMETALLIC CONDUIT(RNC) WITH FITTINGS APPROVED FOR USE WITH RNC. TRANSITION TO EMT OR RMC ABOVE GRADE.
 - IF APPROVED BY LANDLORD, MC CABLE MAY BE USED FOR RECEPTACLE, LIGHTING, AND EQUIPMENT BRANCH CIRCUITING. INSTALL CONCEALED IN WALLS OR ABOVE CEILINGS.
- FIRE STOP ALL WALL AND FLOOR PENETRATIONS PER UL APPROVED METHOD AT RATED ASSEMBLIES.
- WIRE AND CABLE
 - WIRE AND CABLE SHALL BE 600V TYPE THWN COPPER UNLESS OTHERWISE INDICATED. WIRE #8 AND LARGER SHALL BE STRANDED CONDUCTOR. WIRE #10 AWG AND SMALLER SHALL BE SOLID CONDUCTOR.
 - UNLESS OTHERWISE INDICATED, NO WIRE SMALLER THAN #12 AWG SHALL BE USED. CONTROL CIRCUITS MAY BE #14 AWG.
 - UNLESS OTHERWISE INDICATED, PRESUME WIRE SIZE TO BE #12 AWG.
 - ALL 120V, 20A HOMERUNS GREATER THAN 75 FEET SHALL BE #10 AWG. ALL 277V, 20A HOMERUNS GREATER THAN 150 FEET SHALL BE #10 AWG.
 - SEPARATE INSULATED GROUNDING WIRES SHALL BE INSTALLED IN ALL CONDUIT RUNS FOR POWER AND LIGHTING. MINIMUM SIZE OF GROUND SHALL BE PER THE NEC ARTICLE 250.
 - ALL EQUIPMENT AND RECEPTACLE CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTORS (NO SHARED NEUTRALS).
- PANEL DIRECTORIES SHALL BE TYPED. PROVIDE AND INSTALL ENGRAVED PHENOLIC NAMEPLATES FOR MOTOR STARTERS, PANELBOARDS, SAFETY SWITCHES ETC.
- TEST WIRING SYSTEMS FOR SHORTS AND GROUNDS PRIOR TO ENERGIZING CIRCUITS.

ELECTRICAL DEMOLITION NOTES

- HOLES IN ROOM SURFACES DUE TO THE REMOVAL OF ELECTRICAL WORK SHALL BE PATCHED TO MATCH EXISTING FINISH. OPENINGS IN FIRE RATED PARTITIONS SHALL BE SEALED WITH FIRE RATED MATERIAL.
- COORDINATE DEMOLITION SUCH THAT EXISTING EMBEDDED CONDUIT AND FLUSH BOXES IN MASONRY WALLS AND CEILINGS MAY BE REUSED TO THE EXTENT POSSIBLE. FLUSH OUTLET BOXES THAT ARE NOT REUSED SHALL BE PROVIDED WITH BLANK PLATES.
- DEVICES SHOWN WITH 'REX' SHALL BE REMOVED COMPLETELY INCLUDING ALL ASSOCIATED WIRING AND CONDUIT. CIRCUITING AFFECTED SHALL BE REROUTED TO OTHER ACTIVE DEVICES SHARING THAT CIRCUIT AS REQUIRED.
- DEVICES SHOWN WITH 'ETR' SHALL REMAIN. PROTECT DURING DEMOLITION. DEVICES IN CEILINGS THAT ARE TO BE REPLACED SHALL BE REMOVED TEMPORARILY AND REINSTALLED.
- DEVICES SHOWN WITH 'REL' SHALL BE RELOCATED. EXTEND CIRCUIT(S) AS REQUIRED.
- ELECTRICAL DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE RELOCATION OF AND/OR REMOVAL OF ALL ELECTRICAL RELATED DEVICES (UNLESS OTHERWISE INDICATED) LOCATED ON, IN, AND/OR THROUGH WALLS AND CEILINGS SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL PLANS. CIRCUITING AFFECTED SHALL BE REROUTED TO OTHER ACTIVE DEVICES SHARING THAT CIRCUIT AS REQUIRED.
- RECONFIGURATION OF ACTIVE TELECOMMUNICATIONS WIRING/CABLING BY OTHERS.
- REMOVE ACCESSIBLE PORTION OF ABANDONED TELECOMMUNICATIONS WIRING/CABLING.
- REX ALL UNUSED WORK BOXES, JUNCTION BOXES, CONDUIT, ETC.
- UNLESS INDICATED OTHERWISE, REX ALL UNUSED BRANCH CIRCUITS BACK TO BRANCH CIRCUIT PANEL AND TAG CIRCUIT BREAKER AS 'SPARE'.
- NO ATTEMPT HAS BEEN MADE TO INDICATE ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED AND/OR RELOCATED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION PRIOR TO SUBMITTING BID. REMOVE AND/OR RELOCATE EXISTING ELECTRICAL DEVICES ON WALLS OR CEILING BEING REMOVED. COORDINATE SUCH CONDITIONS WITH ARCHITECTURAL DRAWINGS.
- ELECTRICAL CONTRACTOR TO MAKE SAFE ALL ELECTRICAL PANELBOARDS, DEVICES, EQUIPMENT, ETC. DURING DEMOLITION PHASE. TAKE ALL NECESSARY PRECAUTIONS SUCH AS PROVIDING LOCK-OUT DEVICES, REMOVAL OF CIRCUITING, DISCONNECT POWER TO ANY AND ALL EQUIPMENT SLATED TO BE REMOVED, ETC.

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	VOLTS	LAMPS	WATTS	MANUFACTURER	MODEL
□	2x4 LED FLAT PANEL	120	LED 3500K 4800 lumens	40	TO BE SELECTED	TO BE SELECTED
○	6" WAFER DOWNLIGHTS. 0-10V DIM TO OFF.	120	LED 3500K 1200 lumens	30	TO BE SELECTED	TO BE SELECTED
○	SURFACE MOUNTED LIGHT FIXTURE. LISTED FOR WET LOCATIONS. 0-10V DIM TO OFF.	120	LED 3500K 1000 lumens	50	TO BE SELECTED	TO BE SELECTED
○	WALL SCONCE. LISTED FOR WET LOCATIONS. ADA COMPLIANT. 0-10V DIM TO OFF.	120	LED 3500K 1000 lumens	25	TO BE SELECTED	TO BE SELECTED
↑	WHITE THERMOPLASTIC EMERGENCY LIGHTING UNIT, INTEGRAL NICKEL-CADMIUM BATTERY	120	LED	5	LITHONIA	ELM2-LED
↗ ↘ ↗ ↘	WHITE THERMOPLASTIC EMERGENCY LIGHTING UNIT/EXIT SIGN COMBO. PROVIDE MOUNTING, FACES, AND DIRECTIONAL ARROWS AS SHOWN ON THE PLANS, INTEGRAL HIGH OUTPUT NICKEL-CADMIUM BATTERY	120	LED	5	LITHONIA	LHQM-LED-R-HO



1250 OLD RIVER ROAD SUITE 201
CLEVELAND, OH 44113 216-586-0229

MAISON A+D
ARCHITECTURE & DESIGN CLEVELAND, OH

32110 DERFIELD DR.
AVON LAKE, OHIO 44012
216.532.3434

PASHA TURKISH KITCHEN
EXISTING BUILDING RENOVATION
31640 VINE STREET
WILLOWICK, OHIO 44095

E
4.0
ELECTRICAL
SPECIFICATIONS

JUN 13 2025

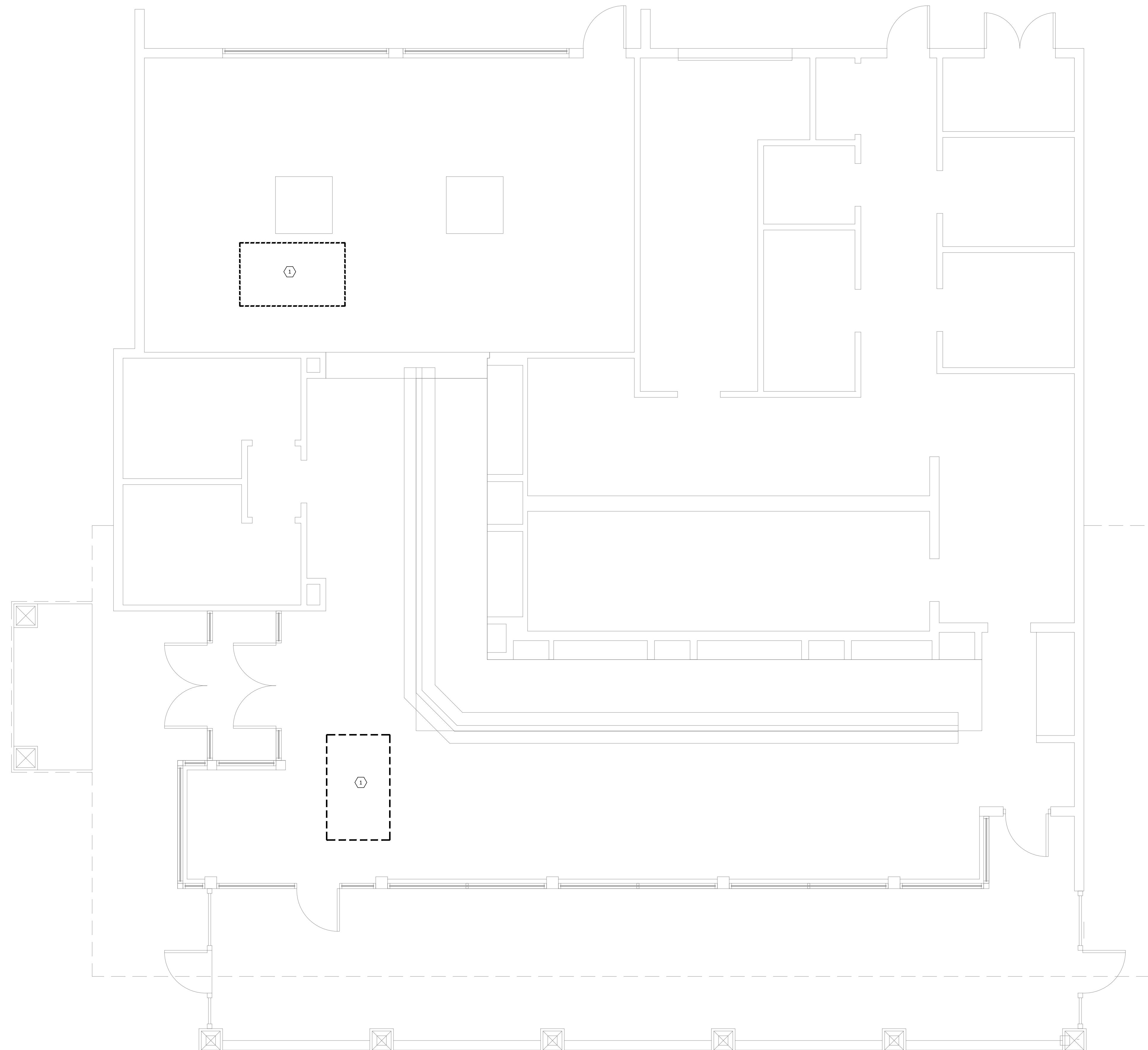
PERMIT #:

PROJECT #:

32110 DERFIELD DR.
AVON LAKE, OHIO 44012
216.532.3434

PETER J. KAMIS, PE
LICENSE #68077
EXP. DATE 12/31/2025

STATE OF OHIO
PETER J. KAMIS
E-68077
REGISTERED
PROFESSIONAL ENGINEER



MECHANICAL DEMOLITION PLAN ¹

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

MD1.0

CODED NOTES:

① REX ROOF TOP UNIT, ASSOCIATED DUCTWORK, CONTROLS, GAS PIPING, ETC. COMPLETE.

NOTES:

1. REMOVE ALL UNUSED ROOF TOP EQUIPMENT, VENTS, DUCTWORK, PIPING ETC TO PREP FOR NEW ROOFING AND INSULATION.

MAISON A+D
ARCHITECTURE & DESIGN CLEVELAND, OH

32210 DERFIELD DR.
AVON LAKE, OHIO 44012

PHONE:
216.532.3434

PASHA TURKISH KITCHEN
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31640 VINE STREET
WILLOWICK, OHIO 44095

PERMIT # JUN 13 2025
PROJECT # -

MD
1.0

DEMOLITION PLAN



PETER J. KAMIS, PE
LICENSE #68077
EXP. DATE 12/31/2025

PLUMBING SPECIFICATIONS

- THE ENTIRE PLUMBING INSTALLATION, MATERIALS, EQUIPMENT, ETC. SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION AND THE OHIO PLUMBING CODE. FURNISH ALL PLUMBING FIXTURES, EQUIPMENT, AND MATERIALS INDICATED AND SHOWN ON DRAWINGS. INSTALL A COMPLETE SYSTEM AND PLACE IN PROPER OPERATION.
- PERFORM ALL EXCAVATION AND BACKFILL REQUIRED FOR INSTALLATION OF BELOW GRADE PIPING. EXCAVATE TO DEPTH REQUIRED TO INSTALL PIPING AT REQUIRED INVERT AND PITCH. LAY PIPE ON BEDDING OF SAND OR INTERLOCKING AGGREGATE FOR UNIFORM BEARING ALONG LENGTH OF PIPE. BACKFILL WITH BEDDING MATERIAL TO A MINIMUM OF 12" ABOVE TOP OF PIPES AND COMPACT. BALANCE OF BACKFILL IN GRASS AREAS SHALL BE CLEAN EARTH OF TO 6" ABOVE SURROUNDING GRADES, UNDER FLOORS, AND PAVING INTERLOCKING AGGREGATE. ALL BACKFILL SHALL BE COMPAKTED IN MAXIMUM 6" LAYERS. PATCH FLOOR TO MATCHING GRADE.
- TEST ALL PIPING IN ACCORDANCE WITH OPC SECTION 312, LOCAL CODES, AND ORDINANCES. TEST WATER PIPING TO HYDROSTATIC PRESSURE OF 100 PSIG FOR 15 MINUTES. PURGE POTABLE WATER SYSTEMS OF DELETERIOUS MATTER AND DISINFECT PRIOR TO USE, PER OPC SECTION 610 AND IN ACCORDANCE WITH AWWA STANDARDS.
- FIELD VERIFY EXACT POINTS OF CONNECTION, INVERTS, SIZES, AND FLOW DIRECTIONS OF ALL EXISTING UTILITY SERVICES PRIOR TO THE START OF WORK. MODIFY DESIGN AS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- ALL PLUMBING SHALL BE CONCEALED UNLESS NOTED TO BE EXPOSED. PROVIDE ALL ACCESS DOORS AND PANELS WHERE REQUIRED TO REACH VALVES AND OTHER APPURTENANCES. ALL PLUMBING PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO PRESERVE HEADROOM. COORDINATE WITH OTHER TRADES.
- PROVIDE ALL HANGERS AND SUPPORTS REQUIRED TO PROPERLY SUPPORT, SECURE, AND ALIGN PIPING, AND ACCOMMODATE ANY PIPING INSULATION. SPACING TO COMPLY WITH OPC REQUIREMENTS.
- GAS PIPING CONNECTIONS TO EQUIPMENT SHALL INCLUDE GAS COCK, UNION AND DIRT LEG. ALL GAS PIPING SHALL CONFORM TO RECOMMENDED PRACTICE AND REGULATIONS OF THE LOCAL GAS COMPANY AND INTERNATIONAL FUEL AND GAS CODE. GAS PIPING SHALL BE AS FOLLOWS:
 - ABOVE GRADE INSIDE BUILDING, LOW PRESSURE - SCHEDULE 40 SEAMLESS BLACK STEEL PIPE, BEVELED ENDS.
 - 2" AND SMALLER - SCREWED FITTINGS, WROUGHT IRON, 2 1/2" AND LARGER - SCH. 40 WELDED BLACK STEEL PIPE.
 - SUPPORTS AND HANGERS SHALL BE PROVIDED TO PROPERLY SUPPORT, SECURE AND ALIGN PIPING AND TO MEET FIELD CONDITIONS. SPACING SHALL COMPLY WITH ASHRAE STANDARDS AND OBC REQUIREMENTS

MECHANICAL HVAC NOTES

- THE PROJECT CONSISTS OF MODIFICATIONS TO THE EXISTING HVAC SYSTEM THROUGHOUT THE EXISTING TENANT SPACE. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, ETC. MUST BE FIELD VERIFIED FOR EXACT LOCATION.
- ALL SUPPLY (INCLUDING OUTSIDE AIR), RETURN, AND EXHAUST DUCTWORK SHALL BE OF NO. 1 GALVANIZED STEEL CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE OHIO MECHANICAL CODE (OMC), SMACNA STANDARDS, AND NFPA 90.
 - SMACNA LOW PRESSURE CONSTRUCTION DUCTWORK SHALL HAVE 2" STATIC PRESSURE RATING WITH SEAL CLASS "A" SEAMS AND JOINTS.
 - SMACNA MEDIUM PRESSURE CONSTRUCTION DUCTWORK SHALL HAVE 4" STATIC PRESSURE RATING WITH SEAL CLASS "B" "A" SEAMS AND JOINTS SEALED WITH EC-800 COMPOUND.
- EXPOSED ROUND DUCTWORK SHALL BE NEATLY INSTALLED SPIRAL TYPE. ALL EXPOSED DUCTWORK SHALL HAVE JOINT SEALANT NEATLY APPLIED TO INTERIOR OF DUCT AND BE PROVIDED WITH PAINT GRIP FINISH AS APPROVED BY ARCHITECT. SEALANT SHALL NOT BE VISIBLE ON EXTERIOR OF DUCT.
- FLEXIBLE DUCTS SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE AND CONNECTED WITH PLASTIC DRAW BANDS TIGHTENED WITH MANUFACTURER'S TOOL. FLEXIBLE DUCTS SHALL BE LIMITED TO STRAIGHT LENGTHS WITH A MAXIMUM LENGTH OF 5'-0", AND ARE NOT PERMITTED IN ROOMS WITHOUT CEILINGS. FLEXIBLE DUCTS SHALL BE ATCO RUBBER TYPE 070 OR EQUIVALENT WITH 1-1/2" INSULATION, RATED FOR 10" W.C. UP TO 12" DIA, U.L. LISTED AND PLENUM RATED.
- ALL ROUND DUCT ELBOWS SHALL BE LONG SWEEEP, 1-1/2 TIMES THE CENTERLINE RADIUS UNLESS CLEARANCE IS NOT AVAILABLE, AT WHICH TIME MITERED ELBOWS WITH TURNING VANES SHALL BE USED.
- ALL RECTANGULAR ELBOWS SHALL BE FURNISHED WITH DOUBLE THICKNESS TURNING VANES. TURNING VANES SHALL BE FASTENED WITH A DOUBLE ROW OF SCREWS.
- CHANGES IN DUCT SIZE SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDED ANGLE OF DIVERGENCE OF 15 DEGREES. MITERED OFFSETS GREATER THAN 30" IN ANY DIRECTION ARE NOT PERMITTED.
- ALL BRANCH CONNECTION FITTINGS IN RECTANGULAR DUCTWORK SHALL BE 45" TRANSITION TYPE, CONICAL FITTINGS, OR SPIN-IN FITTINGS WITH INTEGRAL AIR SCOOPS. BUTT FITTINGS ARE NOT ACCEPTABLE.
- MANUAL VOLUME DAMPERS SHALL BE RUSKIN OR EQUIVALENT, INSTALLED PER MANUFACTURER'S AND SMACNA REQUIREMENTS, FOR A U.L. APPROVED INSTALLATION. DAMPERS SHALL BE OF OPOSED BLADE CONSTRUCTION WITH LOCKING QUADRANTS, AND SHALL BE LOCATED CLOSE TO TAKEOFF FROM MAIN DUCT. PROVIDE REMOTE DAMPER ADJUSTMENT WHERE DAMPERS ARE INACCESSIBLE. COORDINATE WITH GENERAL CONTRACTOR.
- NO EQUIPMENT, DUCTWORK, PIPING, CONTROLS, ETC., SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.
- OUTDOOR AIR VENTILATION SHALL BE PROVIDED PER THE OCCUPANCY LOAD AND CLASSIFICATION AS LISTED IN OMC CHAPTER 4. THE OCCUPANCY LOAD SHOWN ON THE TITLE SHEET UNDER CODE INFORMATION AND ACTUAL OCCUPANT LOAD MAY DIFFER. FOR PURPOSES OF DETERMINING REQUIRED VENTILATION AIR, ACTUAL OCCUPANCY LOAD SHALL BE USED.
- AN INDEPENDENT "ABC" OR "NEBB" CERTIFIED AIR BALANCE CONTRACTOR SHALL TEST AND BALANCE THE SYSTEM AND SUBMIT REPORT RESULTS TO THE OWNER AND ARCHITECT FOR APPROVAL. PROVIDE ALL AIR BALANCING DAMPERS, ACCESS DOORS, DIFFUSER AIR BAFFLES, PRESSURE TAPS, AND REPLACEMENT FAN BELTS/SHEAVES WHERE REQUIRED TO COMPLETE THE BALANCE WORK FOR THIS PROJECT, AT NO ADDITIONAL COST TO OWNER. ALL AIR AND WATER QUANTITIES SHALL BE WITHIN 10% OF THE DESIGN VALUES.
- PROVIDE INSULATION ON MECHANICAL DUCTWORK AND PIPING AS FOLLOWS:
 - ALL UNLINED, CONCEALED SUPPLY AIR DUCTWORK AND BACKS OF CEILING DIFFUSERS SHALL BE INSULATED WITH 1-1/2" THICK FOIL FACED REINFORCED KRAFT JACKET FIBERGLASS DUCT WRAP.
 - DUCTWORK INSTALLED IN UNCONDITIONED SPACES SHALL BE INSULATED WITH "INSTALLED" (25% COMPRESSION) MINIMUM R-VALUE OF 5.0.
 - EXTERIOR DUCTWORK SHALL BE 2" THICK DOUBLE WALL INSULATED WITH A MINIMUM R-VALUE OF 8.0.
 - INSULATE ALL CHILLED WATER PIPING WITH 1-1/2" THICK ARMAFLEX CLOSED CELL PIPING INSULATION.
 - INSULATE ALL HEATING HOT WATER PIPING 1-1/2" DIA. OR SMALLER WITH 1-1/2" THICK ARMAFLEX CLOSED CELL PIPING INSULATION. PROVIDE 2" THICK INSULATION FOR PIPING LARGER THAN 1-1/2" DIA.
 - INSULATE ALL STEAM PIPING 1-1/2" DIA. OR SMALLER WITH 1-1/2" THICK ARMAFLEX CLOSED CELL PIPING INSULATION. PROVIDE 3" THICK INSULATION FOR PIPING LARGER THAN 1-1/2" DIA.
 - INSULATE ALL REFRIGERANT SUCTION PIPING FROM CONDENSING UNIT TO INDOOR DX COIL WITH 1/2" ARMAFLEX CLOSED CELL PIPING INSULATION.
 - ALL CONDENSATE PIPING SHALL BE INSULATED WITH 1" RIGID FIBERGLASS INSULATION.
 - ALL PIPING SHALL BE NEATLY AND CLEARLY LABELED INDICATING SERVICE AND DIRECTION OF FLOW.
 - ALL INSULATION SHALL BE FULLY SECURED TO DUCTWORK AND PIPING. LAP AND TAPE SEAMS AND SECURE TIGHTLY WITH WIRE OR STICK PINS.
 - K. ALL INSULATION SHALL BE APPLIED IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL INSULATION SHALL COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND U.L. 723.
- WHERE SHOWN ON PLANS, PROVIDE 1" INTERNAL ACOUSTIC LINING IN SUPPLY AND RETURN AIR DUCTWORK. OMIT LINING IN THE FIRST 24" DOWNSTREAM OF ELECTRIC HEATING COILS AND PROVIDE EXTERNAL INSULATION IN PLACE. LINING SHALL BY NON-FLAKING, COATED, AND MEDIUM DENSITY INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. DUCT SIZES SHOWN ON DRAWINGS ARE OUTSIDE DIMENSIONS, AND INCLUDE LINING ALLOWANCE. ACOUSTIC LINING INSIDE MEDIUM PRESSURE DUCTWORK SHALL BE SECURED IN PLACE WITH 1/2" ALUMINUM MESH SCREENING.
- U.L. LISTED STATIC FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE TYPE "B" OR "C" AS APPLICABLE AND SHALL BE INSTALLED WITH APPROPRIATE SLEEVES AND ANGLES. DAMPERS SHALL BE INSTALLED IN RATED WALLS, PARTITIONS, AND CEILINGS, IN COMPLIANCE WITH OMC SECTION 607. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS. DAMPERS SHALL HAVE RATING EQUIVALENT TO BARRIER.
- DOUBLE WALL, INSULATED, AND GASKETED DUCT ACCESS DOORS SHALL BE PROVIDED FOR ALL FIRE DAMPERS. DOORS SHALL BE LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF DAMPERS.
- MECHANICAL CONTRACTOR SHALL ADJUST MINIMUM OF SET POINT OF VAV BOXES WITH ELECTRIC REHEAT TO NOT LESS THAN 75 CFM PER KW TO PREVENT OVERHEATING OF COILS.
- PHOTO ELECTRIC SMOKE DETECTORS SHALL BE FACTORY FIELD INSTALLED IN THE SUPPLY RETURN AIR SECTIONS DUCTS OF AIR HANDLING UNITS AS SHOWN ON PLANS, WIRED TO SHUT DOWN UNITS UNDER ALARM. MECHANICAL CONTRACTOR SHALL PROVIDE AND WIRE REMOTE TEST STATIONS/ALARMS AT LOCATIONS AS DIRECTED BY AUTHORITY HAVING JURISDICTION. DETECTORS SHALL HAVE AUXILIARY CONTACT FOR WIRING TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. DETECTORS SHALL COMPLY WITH OMC SECTION 606. VERIFY EXISTENCE AND PROPER OPERATION OF ALL EXISTING SMOKE DETECTORS.
- WHERE SPACE ABOVE CEILING IS UTILIZED AS A RETURN AIR PLENUM, ALL EXISTING AND NEW CONSTRUCTION SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A MAXIMUM 25 FLAME SPREAD AND 50 SMOKE DEVELOPED INDEX RATING. LOW VOLTAGE WIRING SHALL BE LABELED "PLENUM RATED" PER NFPA 70. ANY EXISTING PVC PIPING FOUND IN A RETURN AIR PLENUM SHALL BE WRAPPED WITH "3M-FIRE BARRIER PLENUM WRAP 5A+" OR REPLACED WITH PLENUM RATED PIPING AS ALLOWED BY STATE AND LOCAL JURISDICTIONS HAVING AUTHORITY. FIELD VERIFY LOCATION AND QUANTITY.
- PROVIDE CURBS FOR ALL ROOF OPENINGS FOR MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT. CURBS SHALL BE FURNISHED AS ACCESSORIES TO EQUIPMENT OR SHALL BE 8" HIGH PATE OR EQUIVALENT, AND SHALL BE FLASHED AND COUNTER-FLASHED INTO ROOFING. ROOF CURBS SHALL BE COMPATIBLE WITH ROOFING SYSTEM AND SHALL MATCH ROOF SLOPE SUCH THAT EQUIPMENT SITS DEAD LEVEL.
- EQUIPMENT AND APPLIANCE LOCATION SHALL BE IN COMPLIANCE WITH OMC SECTION 303. GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE LOCATED WITHIN 10'-0" OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND IS LOCATED MORE THAN 30" ABOVE THE FLOOR, ROOF OR GRADE BELOW.

DIFFUSER AND GRILLE SCHEDULE

ITEM	SERVICE	MANUFACTURER AND CATALOG NUMBER	NECK SIZE	PANEL SIZE	CORE PATTERN	REMARKS
CD-1	SUPPLY	PRICE #SPD	AS SHOWN ON DWG.	24x24	4 WAY THROW	STEEL HIGH PERFORMANCE PLATE FACE SUPPLY AIR DIFFUSER WITH #VCR8 DAMPER, #B12 WHITE FINISH AND TYPE-31 LAY-IN BORDER. PROVIDE WITH DIRECTIONAL AIR BAFFLE WHERE SHOWN ON PLAN.
CD-2	SUPPLY	PRICE #SPD	AS SHOWN ON DWG.	12x12	4 WAY THROW	STEEL HIGH PERFORMANCE PLATE FACE SUPPLY AIR DIFFUSER WITH #VCR8 DAMPER, #B12 WHITE FINISH AND TYPE-31 SURFACE-MOUNT BORDER.
RG-1	RETURN	PRICE #530	AS SHOWN ON DWG.	24x24	SINGLE DEFLECTION	STEEL, FIXED LOUVER GRILLE WITH 3/4" BAR SPACING, LAY IN BORDER, VOLUME DAMPER, AND #B12 WHITE FINISH.

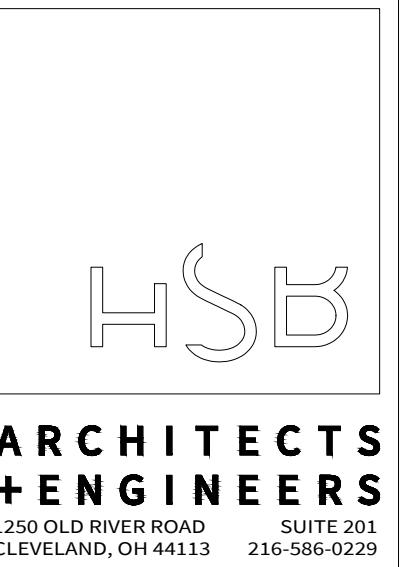
ROOFTOP UNIT SCHEDULE

TAG	MFR.	MODEL NO.	COOLING CAPACITY (MBH)		SUPPLY AIR (CFM)	EXTERNAL STATIC PRESSURE (IN.)	HEATING CAPACITY			ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
			SENSIBLE	TOTAL			KW	STAGES	MBH	V/CY/PH	MCA	MOCP		
RTU-1 (TOTAL OF 3)	TRANE	"PRECEDENT" YHK060	44.8	62.4	2,000	1.0	-	2	100	208/60/3	34	45	1,100 INCL. CURB	1,2,3,4,5

- INCLUDE WITH FACTORY MOUNTED RA SMOKE DETECTOR.
- INCLUDE WITH 100% COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
- PROVIDE WITH 14" HIGH (MINIMUM) ROOF CURB.
- PROVIDE WITH CONVENIENCE OUTLET AND NON-FUSED DISCONNECT.
- PROVIDE WITH MANUAL OUTSIDE AIR DAMPER.

MECHANICAL SPECIFICATIONS

- THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND START-UP OF ALL EQUIPMENT AND APPURTENANCES WHICH ARE A PART OF THE SYSTEMS AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE THE OWNER COMPLETE AND WORKABLE, CODE APPROVED, AND OPERATIONAL SYSTEMS.
- GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA), AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE. CHECK OTHER PLANS AND SPECIFICATIONS AND FULLY COORDINATE WITH OTHER TRADES AND ARCHITECT'S REQUIREMENTS.
- THE SYSTEMS AS SHOWN ON THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. THE PROJECT SCOPE IS TO INSTALL COMPLETE AND WORKABLE SYSTEMS, VERIFY ALL DIMENSIONS, CLEARANCES, AND POINTS OF CONNECTION BY FIELD MEASUREMENT, AND CHECK FOR INTERFERENCES PRIOR TO STARTING WORK. CHANGES RESULTING FROM EXISTING CONDITIONS OR COORDINATION ISSUES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.
- ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS ARE TO BE FURNISHED WITHOUT ADDITIONAL COST. THE QUESTION AS TO WHETHER THE ITEM OR ITEMS ARE INCIDENTAL SHALL IN ALL CASES BE LEFT TO THE JUDGMENT OF THE ARCHITECT.
- ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING THE OHIO BUILDING CODE, NATIONAL ELECTRIC CODE, UTILITY COMPANY REQUIREMENTS, AND ANY SPECIAL OWNER REQUIREMENTS IN ADDITION TO THOSE SPECIFIED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKMEN. COMPLY WITH ALL OSHA REGULATIONS.
- OBTAIN AND PAY FOR ALL NECESSARY LICENSES, PERMITS, APPROVALS, AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK.
- CONTRACTORS BIDDING THIS PROJECT SHALL HAVE PRIOR EXPERIENCE WORKING IN THIS JURISDICTION AND MUST LIST ON BID FORM ANY LOCAL REQUIREMENTS THAT ARE NOT SHOWN ON THE DRAWINGS. SUBMISSION OF A BID SHALL BE EVIDENCE THAT THE CONTRACTOR'S BID MEETS ALL JURISDICTIONAL REQUIREMENTS.
- EACH CONTRACTOR SHALL PROVIDE FOR HIS OWN CLEAN-UP, REMOVAL, AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
- ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS. SHUTDOWNS MUST BE PERFORMED WITHOUT DISRUPTION TO FACILITY OPERATIONS, AS SCHEDULE WITH THE OWNER. INCLUDE ANY PREMIUM TIME REQUIRED IN BID.
- INSTALLATION OF ALL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION INFORMATION AND INSTRUCTIONS, REQUIREMENTS AND ANY ADDITIONAL GUIDELINES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED BASES, ISOLATORS, SUPPORTS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT OF ALL EQUIPMENT AND ACCESSORIES TO BE PROVIDED FOR THE PROJECT. REVIEW OF THE SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN CONCEPT AND ADHERENCE WITH SPECIFICATIONS. QUANTITY OF SHOP DRAWINGS SUBMITTED SHALL BE AS SPECIFIED BY THE ARCHITECT.
- INCLUDE IN BASE BID THE EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED ON DRAWINGS, INCLUDING ANY ALTERNATE MANUFACTURERS LISTED ON DRAWINGS. ANY ANOTHER MANUFACTURER OR MODEL IS A SUBSTITUTION, MUST BE LISTED ON BID FORM, AND IS SUBJECT TO OWNER AND ARCHITECT APPROVAL. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO EVALUATE ANY SUBSTITUTION AND CERTIFY IT IS EQUIVALENT IN ALL ASPECTS TO THE BASE SPECIFICATIONS. NOTIFY ALL OTHER TRADES AFFECTED BY AN APPROVED SUBSTITUTION AND FULLY COORDINATE. ANY COSTS RESULTING FROM A SUBSTITUTION, WHETHER BY THIS CONTRACTOR OR ANOTHER, SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY SUBSTITUTING CONTRACTOR.
- ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS, AND U.L. LABELED. ALL MATERIALS AND METHODS SPECIFIED ON DRAWINGS SHALL BE THE MINIMUM ALLOWED. IF A CONFLICT OCCURS, THE OWNER SHALL RESOLVE SUCH CONFLICT WITH CONTRACTOR CONFORMING TO THE OWNER'S DECISION.
- THIS CONTRACT SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL, ELECTRICAL AND GENERAL TRADE WORK CURRENTLY EXISTING AND WORK WHICH MAY BE INSTALLED PRIOR TO CONTRACT AWARD. RELOCATION OF DUCTWORK, PIPING AND EQUIPMENT, AS REQUIRED TO ACCOMMODATE THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, CONDUIT, DUCTWORK, ROOF DECK, OR JOIST BRIDGING. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY ARCHITECT OR STRUCTURAL ENGINEER.
- ALL MECHANICAL SYSTEM COMPONENTS SHALL BE ROUTED TIGHT TO UNDERSIDE OF STRUCTURE AND THROUGH JOISTS OR TRUSSES WHERE POSSIBLE. COORDINATE INSTALLATION AND PROVIDE OFFSETS TO PRESERVE HEADROOM, EQUIPMENT SERVICE ACCESS, AND ARCHITECTURAL CLEARANCES FOR FINISHES, INCLUDING CEILING HEIGHTS. COORDINATE WITH OTHER TRADES AND DO NOT CONFLICT WITH THE ARCHITECTURAL REQUIREMENTS FOR THE FINISHED CONSTRUCTION.
- REFER TO THE GENERAL CONDITIONS OF THE ARCHITECTURAL DOCUMENTS AND THE AIA GENERAL AND SPECIAL CONDITIONS, FOR ADDITIONAL REQUIREMENTS REGARDING SAFETY, COORDINATION AND COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, ETC.
- COORDINATE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING OF EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.
- EXACT LOCATIONS OF ROOFTOP MECHANICAL EQUIPMENT SHALL BE APPROVED BY ARCHITECT OR STRUCTURAL ENGINEER. PROVIDE ALL SUPPLEMENTAL SUPPORT STEEL AND ROOF OPENINGS FOR EQUIPMENT. PROVIDE 2-1/2" HIGH PERMANENT LETTERING INDICATING SPACE SERVED.
- ALL ROOF PENETRATIONS, FLASHINGS AND COUNTER-FLASHINGS, PATCHING, ETC. SHALL BE PERFORMED BY OWNER'S CERTIFIED ROOFING CONTRACTOR, AND PAID FOR BY THIS CONTRACTOR.
- ALL OTHER CUTTING AND CHASING OF THE BUILDING CONSTRUCTION REQUIRED FOR THIS WORK SHALL BE BY THIS CONTRACTOR, UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONFIRM SIZES AND LOCATIONS PRIOR TO PERFORMING ANY WORK. ALL CUTTING SHALL BE IN A NEAT AND WORKMANLIKE MANNER.
 - NEATLY SAW CUT ALL RECTANGULAR OPENINGS, SET SLEEVE THROUGH OPENING, AND FINISH PATCH OR PROVIDE TRIM FLANGE AROUND OPENING.
 - NEATLY SAW CUT AND PATCH FLOORS TO MATCH EXISTING, INCLUDING FLOOR COVERING.
 - CORE DRILL AND SLEEVE ALL ROUND OPENINGS.
 - CUT AND PATCH EXISTING BUILDING WALLS AS REQUIRED FOR DUCT INSTALLATION. PROVIDE STEEL LINTEL ABOVE OPENINGS WIDER THAN 10". REFER TO ARCHITECTURAL OR STRUCTURAL DRAWINGS FOR SIZES. PROVIDE ESCUTCHEONS OR 2" WIDE SHEET METAL FLANGES AROUND ALL EXPOSED PENETRATIONS.
 - DO NOT CUT ANY STRUCTURAL COMPONENT WITHOUT APPROVAL OF ARCHITECT OR STRUCTURAL ENGINEER.
 - PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED, OR MODIFIED TO INSTALL EQUIPMENT FOR THIS PROJECT.
- FIRE STOP ALL PENETRATIONS OF FIRE RATED CONSTRUCTION IN A CODE APPROVED MANNER USING U.L. LISTED FIRE RETARDANT MATERIALS. PATCH ALL STRUCTURAL FIREPROOFING REQUIRED TO INSTALL MECHANICAL SYSTEMS.
- ALL CONTRACTORS SHALL CONFIRM WITH OWNER PRIOR TO BID, TIMES AVAILABLE FOR NOISE PRODUCING WORK SUCH AS CUTTING AND CORE DRILLING OF FLOORS, WALLS, ETC. AS WELL AS TIMES FOR WORK WHICH REQUIRES ACCESS INTO ADJOINING AREAS. INCLUDE ANY PREMIUM TIME REQUIRED IN BID.
- AFTER INSTALLATION, CHECK ALL EQUIPMENT AND PERFORM START-UP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL DUCTWORK AND PIPING SHALL BE TESTED AND FREE OF LEAKS. BALANCE ALL SYSTEMS, CALIBRATE CONTROLS, CHECK FOR PROPER OPERATING SEQUENCE UNDER ALL CONDITIONS, AND MAKE ALL NECESSARY ADJUSTMENTS. TAG ALL SWITCHES AND CONTROLS WITH PERMANENT LABELS. INSTRUCT OWNER IN OPERATION AND MAINTENANCE OF ALL SYSTEMS. SUBMIT OPERATION AND MAINTENANCE MANUAL FOR ALL EQUIPMENT AND SYSTEMS.
- FULLY WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE. EXTEND ALL MANUFACTURER'S WARRANTIES TO OWNER. REPAIR OR REPLACE WITHOUT CHARGE TO OWNER, ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD.



MAISON A+D
ARCHITECTURE & DESIGN | CLEVELAND, OH

PHONE: 216.332.3434
122110 DERRFIELD DR.
AVON LAKE, OH 44012

31640 VINE STREET
WILLOWICK, OHIO 44095

M
2.0
MECHANICAL SCHEDULES
AND SPECIFICATIONS

PETER J. KAMIS, PE
LICENSE #68077
EXP. DATE 12/31/2025

PETER J. KAMIS
LIC. #68077
EXPIRATION DATE: 12/31/2025

