

**PART 4: TECHNICAL SPECIFICATIONS
AND DRAWINGS**

Homewood North Community Center HVAC Replacement, AMP-20.

IFB CONTRACT NO. 600-28-26__

Homewood North - Community Center

HVAC Work Replacement

Mechanical Unit replacement in existing community center. No changes to exisitng areas, structure, fire protection or egress.

10 Albertice St.,
Pittsburgh, PA 15208

Drawing Index

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Code Conformance Information

Applicable Codes	
General:	2021 International Existing Building Code
Accessibility:	ANSI/ICC A117.1 2009
Energy:	2021 International Energy Conservation Code
Electrical:	2020 NEC (NFPA 70)
Fire:	2021 International Fire Code
Fuel Gas:	2021 International Fuel Gas Code
Mechanical:	2021 International Mechanical Code
Plumbing:	2022 Allegheny County Health Department Plumbing Code
Fire Alarm:	2021 NFPA 72
Sprinkler:	2021 NFPA 13

General Building / Project Information	
Compliance Method:	Work Area
Classification of Work:	Level 2 Alteration
Occupancy Group:	A-3, B, E. (Only A-3 in scope) non-separated occupancies (A-3 most restrictive)
Stories:	1 Story
Building Height:	+/- 25'-0"
Building Gross Area:	4,745 SF
Work Area:	37.5 SF
Construction Type:	VB
Sprinklers:	NFPA 13
Fire Alarm:	NFPA 72

NOTE: SCOPE OF WORK LIMITED TO REPLACING EXISTING MECHANICAL EQUIPMENT, REMOVAL OF ABANDONED EQUIPMENT, CREATION OF A NEW OPENING IN THE CLG SYSTEM FOR FUTURE RTU SERVICING, AND REMOVAL OF EXISTING TEMPORARY FURNACE AND ENCLOSURE. TEMPORARY REMOVAL OF EXISTING SMOKE/CARBON MONOXIDE DETECTORS AND LIGHTING FIXTURES TO CREATE NEW OPENING FOR FUTURE RTU SERVICING. TEMPORARY REMOVAL OF EXISTING FIRE ALARM DEVICES AND LIGHTING FIXTURES TO CREATE NEW OPENING FOR FUTURE RTU SERVICING. TEMPORARY RELOCATION OF SPRINKLER HEADS TO REMAIN ACTIVE DURING CONSTRUCTION. REINSTALLATION OF SUSPENDED GRID CEILING SYSTEM, WTIH NEW ACOUSTIC TILES.

Contact Schedule

Note: Any questions concerning the Construction Documents shall first be directed to the Architect. The Architect will forward questions as appropriate to the consulting engineers.

Building Owner:

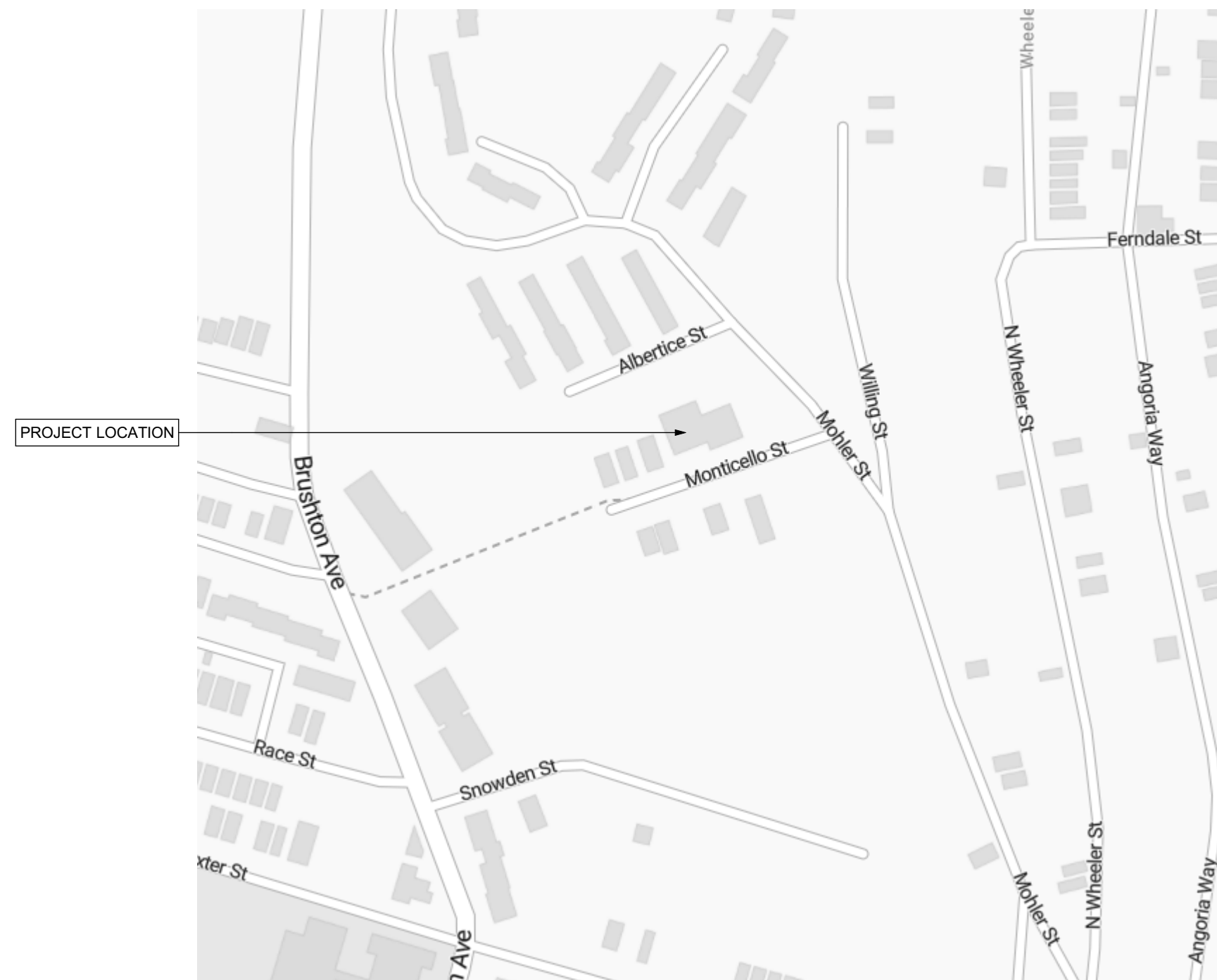
HACP
412 Boulevard of the Alies
Pittsburgh,PA,15219

Architect:

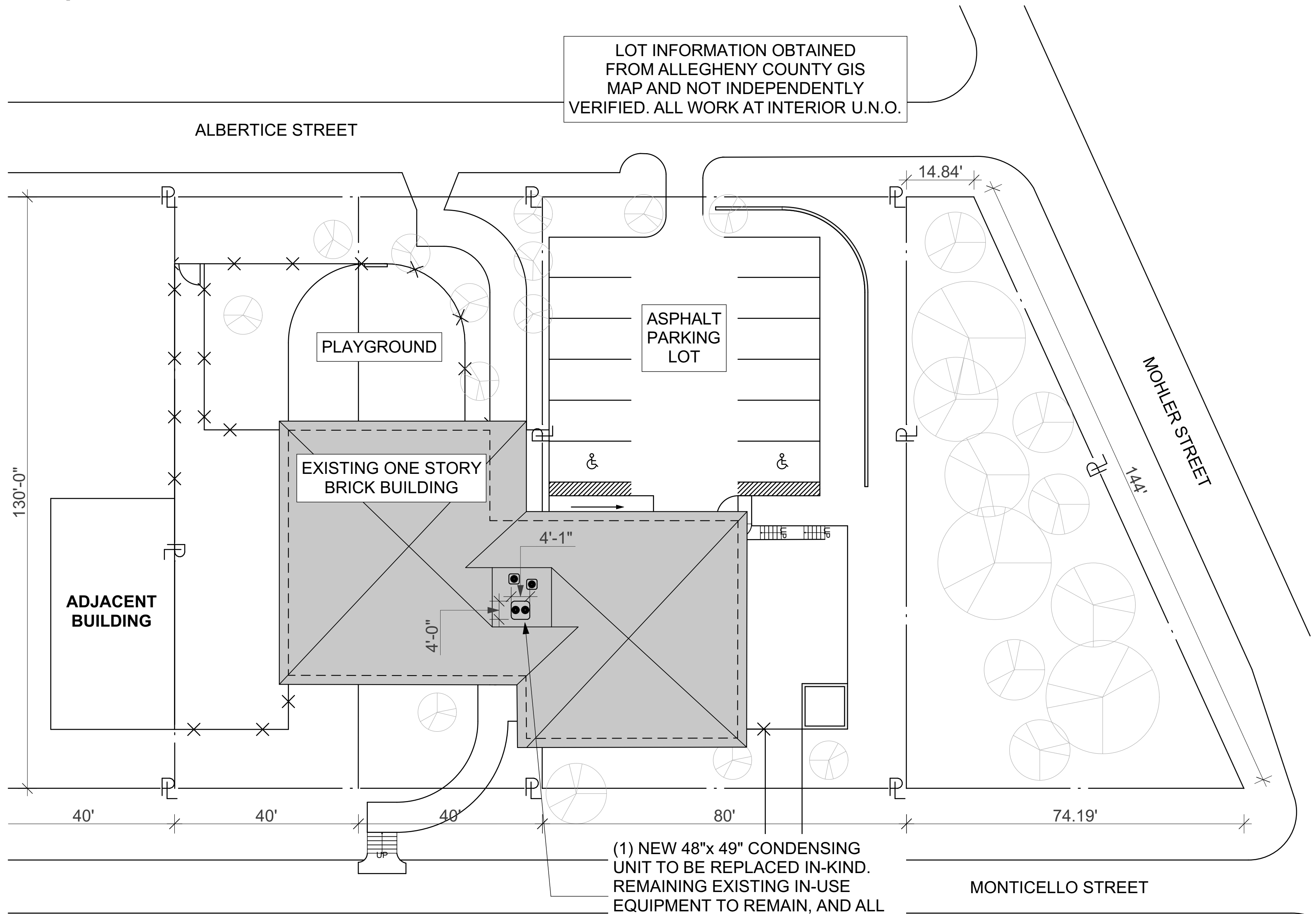
Fukui Architects, PC
205 Ross Street
Pittsburgh, PA 15219
ph: 412.281.6001
fx: 412.281.6002
emma@farpc.com
contact: Emma Cline, AIA

Plan Review & Inspection:

City of Pittsburgh
Departments of Permits, Licenses
and Inspections
200 Ross Street
3rd floor, room 320
Pittsburgh, PA 15205
ph: 412.255.2175



1 Site Location Map



2 SITE PLAN
SCALE: 1/16" = 1'-0"

Fukui Architects Pc

205 Ross Street
Pittsburgh, Pennsylvania 15219
ph 412.281.6001 fx 412.281.6002

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general notes

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- Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, Pc of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. **Do not scale drawings.**
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- All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.
- All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law, statutory, and other reserved rights, including the copyright thereto.

revisions

- ISSUE FOR CLIENT REVIEW 02.28.2025
- ISSUE FOR BID AND PERMIT 09.24.2025
- ISSUE FOR ZDR REVISIONS 01.07.2026
- IFC & IFB 05.19.2026

project title

Owner:

HACP
412 Boulevard of the Alies
Pittsburgh,PA,15219

Project Location:

Homewood North - Community Center
HVAC Work Replacement
10 Albertice St.
Pittsburgh, PA 15208

drawing title

Cover Sheet Drawing Index, Code Conformance Information, Project Contact Schedule, Site Location Map, SITE PLAN

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05.19.2026

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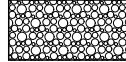
Project #2441

Materials Legend

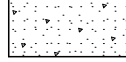
NOT ALL MATERIALS USED



EARTH



COMPACTED STONE FILL



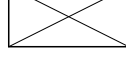
CONCRETE



STEEL



RIGID INSULATION



BLOCKING



BATT INSULATION



GYPSUM WALL BOARD



WOOD



PLYWOOD SHEATHING



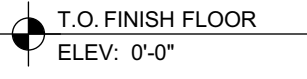
SPRAY FOAM INSULATION

Abbreviations

A.F.F.	Above Finish Floor	EQUIP.	Equipment	MISC.	Miscellaneous
A.P.	Access Panel	E.F.	Exhaust Fan	N.I.C.	Not In Contract
ACOUST.	Acoustical	EXIST.	Existing	N.T.S.	Not To Scale
A.C.T.	Acoustical Ceiling Tile	EXP.	Expansion	O.C.	On Center
ADH.	Adhesive	E.J.	Expansion Joint	OPP.	Opposite
ADJUST.	Adjustable	ESH	Exterior Sheathing	O.H.	Overhead
A/C	Air Conditioning	EXIST.	Existing	PR.	Pair
ALT.	Alteration	EXP.	Exposed	PLAS.	Plaster
ALTN.	Alternate	EXT.	Exterior	PLAM	Plastic Laminate
ALUM.	Aluminum	E.I.F.S.	Exterior Insulation & Finish System	P.C.	Plumbing Contractor
A.O.R.	Area of Refuge	F.R.P.	Fiberglass Reinforced Polyester	PLYWD.	Plywood
APPROX.	Approximate	F.F.	Finish Floor	POLY.	Polyethylene
ARCH.	Architectural	FIN.FLR.	Finish Floor	P.V.C.	Polyvinyl Chloride
ASB.	Asbestos	F.A.C.P.	Fire Alarm Control Panel	PRE-FAB.	Prefabricated
ASPH.	Asphalt	F.E.	Fire Extinguisher	RE.	Refer To
AUTO.	Automatic	FLR.	Floor	REF.	Refrigerator
AVG.	Average	F.D.	Floor Drain	R.C.P.	Reinforced Concrete Pipe
BLK.	Block	FTG.	Footing	REINF.	Reinforcement
BD.	Board			RD.	Roof Drain
BOT.	Bottom	GA.	Gauge	RM.	Room
BLDG.	Building	G.C.	General Contractor	S.A.T.	Suspended Acoustical Tile
		G.F.I.	Ground Fault Interrupter	SCHED.	Schedule
C.I.P.	Cast In Place	GYP.	Gypsum	SHT.	Sheet
C.B.	Catch Basin	G.W.B.	Gypsum Wall Board	SIM.	Similar
CEM.	Cement	GSH	Gypsum Sheathing	S.C.	Solid Core
CER.	Ceramic	H/C	Handicap	SPECS.	Specifications
CG	Corner Guard	H/V.A.C.	Heating, Ventilation & Height	SO.	Square
C.M.T.	Ceramic Mosaic Tile	HT	Height	S.F.	Square Foot
C.W.T.	Ceramic Wall Tile	HC	Hollow Core	S.S.	Stainless Steel
C.O.	Cleanout	H.M.	Hollow Metal	STL.	Steel
C.L.	Center Line	HORIZ.	Horizontal	STOR.	Storage
CLO.	Closet	HR.	Hour	STRUCT.	Structural
C.W.	Cold Water	H.W.	Hot Water	TEL.	Telephone
CLG.	Ceiling	H/S	Horn/Strobes	THK.	Thick
COL.	Column			T.B.D.	To Be Determined
CONC.	Concrete	IN.	Inch	T&G	Tongue & Groove
C.M.U.	Concrete Masonry Unit	I.M.	Insulated Metal	T.O.	Top Of
CONT.	Continuous	INSUL.	Insulation or Insulated	T.G.	Top Of Grade
CORR.	Corridor	INT.	Interior	T.O.S.	Top Of Steel
C.M.P.	Corrigated Metal Pipe	INV.	Invert	TYP.	Typical
CRS.	Courses	ISO.	Isolation	UNFIN.	Unfinished
		JAN.	Janitor's Closet	U.N.O.	Unless Noted Otherwise
DIA.	Diameter	J.T.	Joint	V.B.	Vapor Barrier
DET	Detail	LAM.	Laminate	VERT.	Vertical
DGL	Dens Glass Gold	LAV.	Lavatory	VEST.	Vestibule
DR.	Door	L.G.	Long	V.C.T.	Vinyl Composition Tile
DN.	Down	L.F.	Light Fixtures		
D.S.	Downspout	M.D.F.	Medium Density Fiberboard		
DWG.	Drawing	M.D.H.	Magnetic Door Holder		
D.F.	Drinking Fountain	M.H.	Manhole		
D.I.P.	Ductile Iron Pipe	MFG.	Manufacturer		
		MAX.	Maximum		
EA.	Each	MECH.	Mechanical		
E.W.	Each Way	MET.	Metal		
ELEC.	Electrical	MIN.	Minimum		
E.C.	Electrical Contractor				
EL.	Elevation				
ELEV.	Elevation				

Symbols

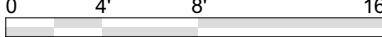
NOT ALL SYMBOLS USED



ELEVATION HEIGHT



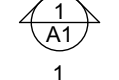
NORTH ARROW



GRAPHIC SCALE



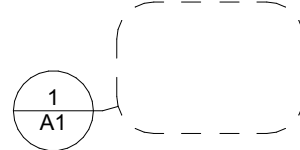
BUILDING/ WALL SECTION MARKER



ELEVATION MARKER



INTERIOR ELEVATION MARKER



DETAIL REFERENCE



FINISH MATERIAL DESIGNATOR

general notes

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revisions

- | | |
|---|-------------------------------------|
| 1 | ISSUE FOR CLIENT REVIEW 02.28.2025 |
| 2 | ISSUE FOR BID AND PERMIT 09.24.2025 |
| 3 | ISSUE FOR ZDR REVISIONS 01.07.2026 |
| 4 | IFC & IFB 05.19.2026 |

project title

Owner:

HACP
412 Boulevard of the Alies
Pittsburgh,PA,15219

Project Location:

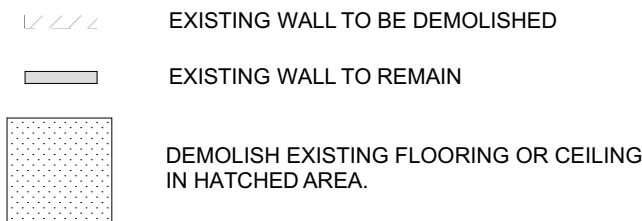
Homewood North - Community Center
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drawing title

Abbreviations And Accessibility
Diagrams Abbreviations and Materials

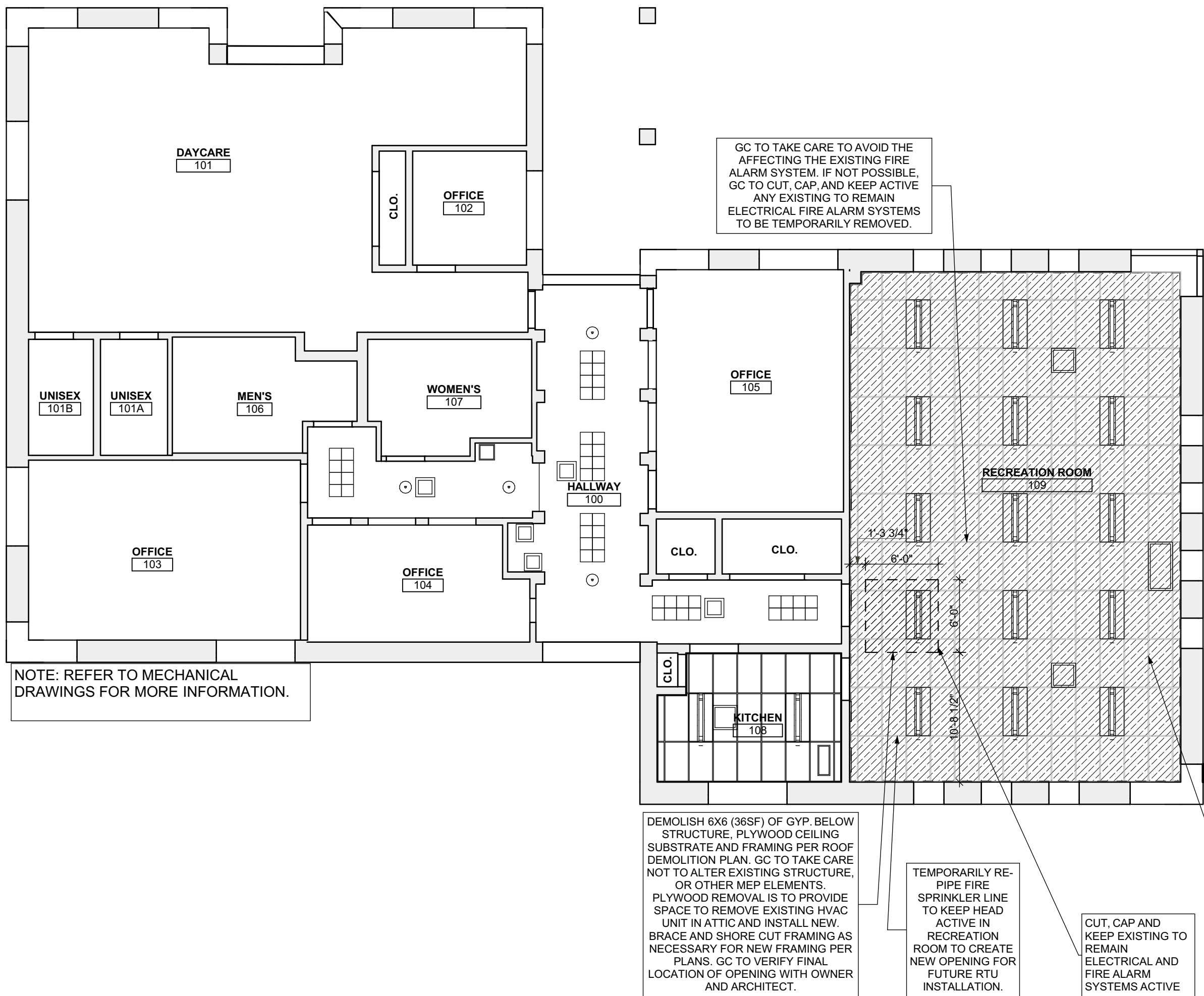
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DEMOLITION PLAN LEGEND

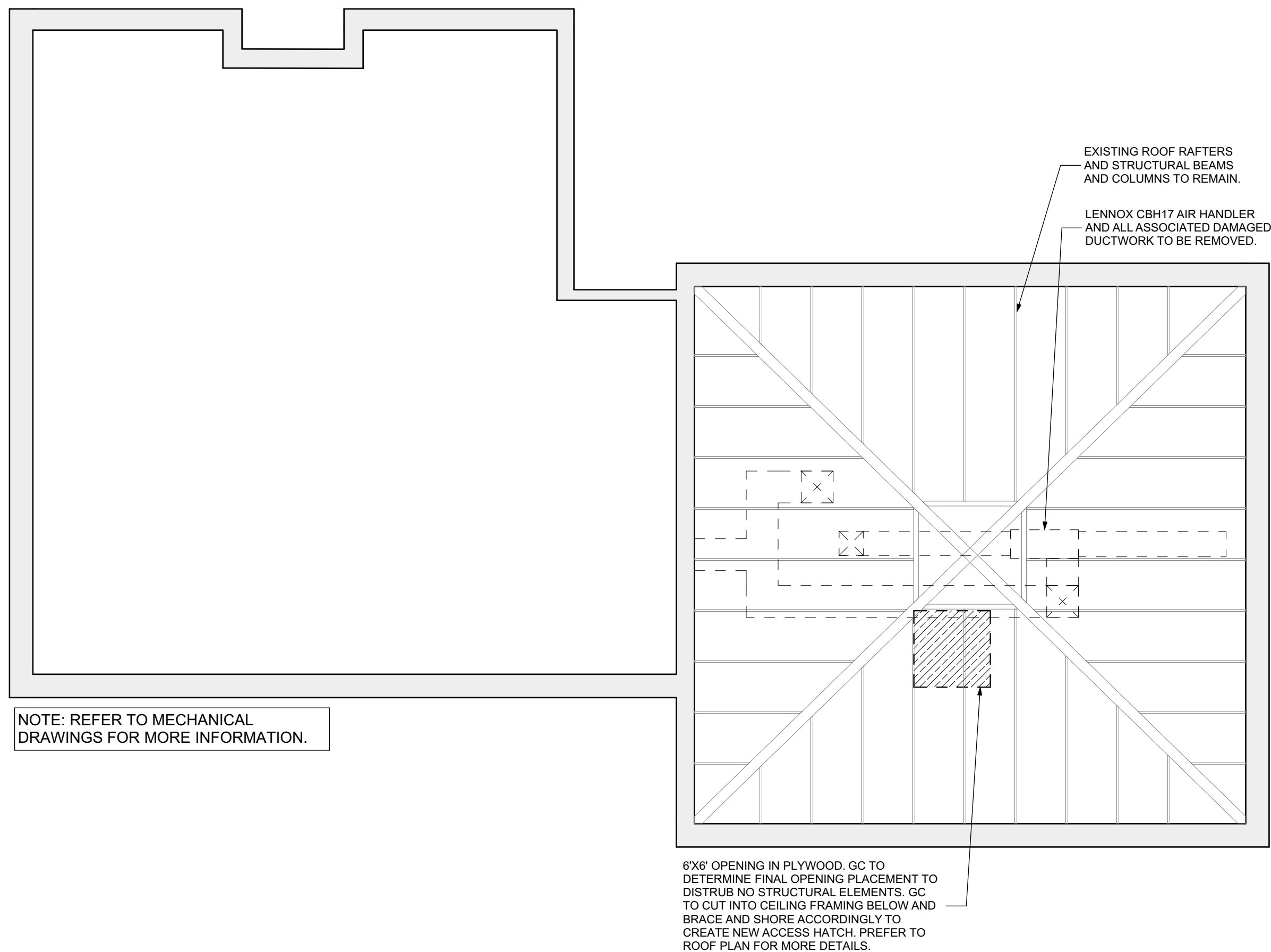


GENERAL DEMOLITION NOTES

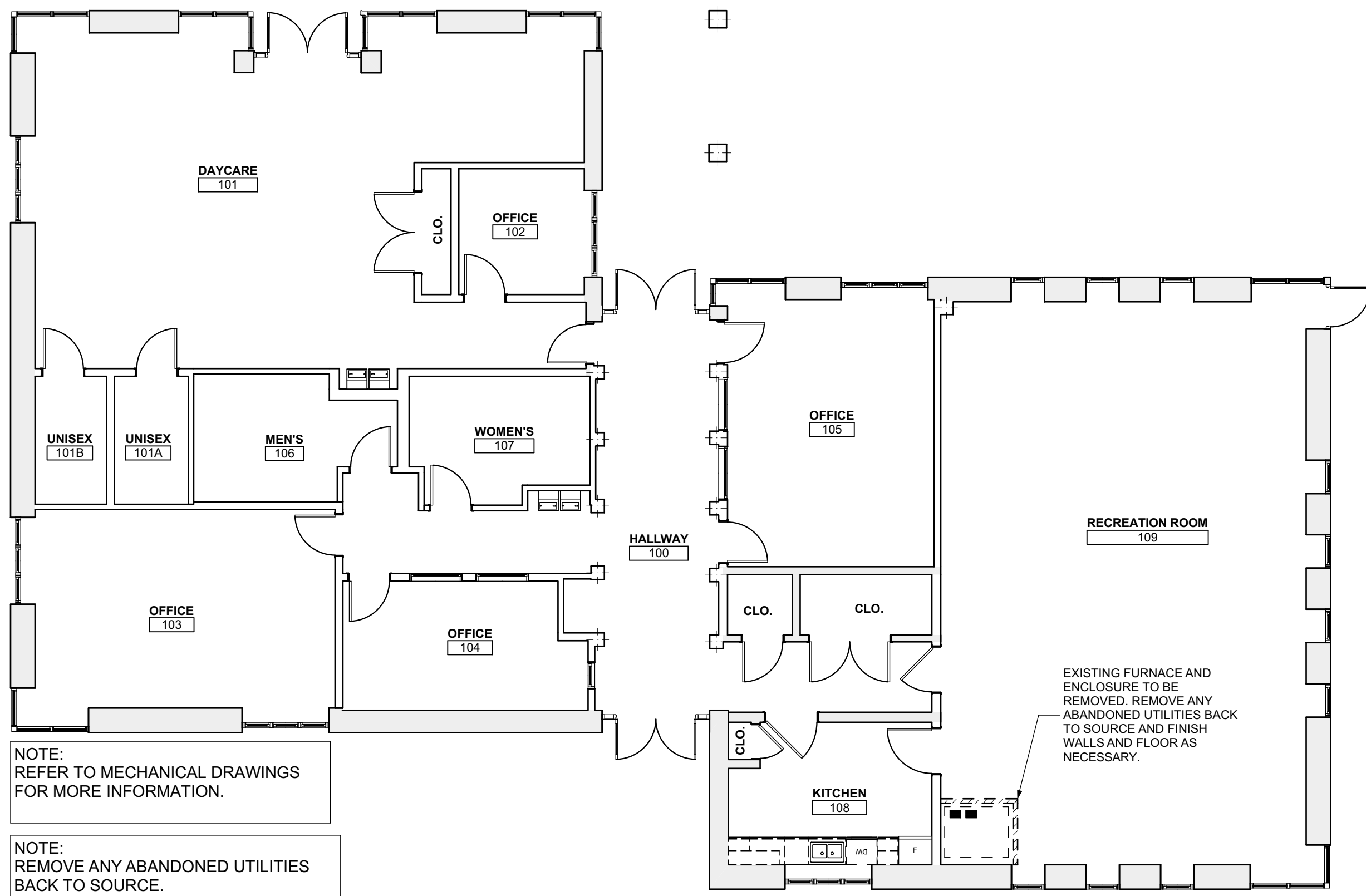
1. CONTRACTORS SHALL MAINTAIN EXISTING BUILDING IN A WEATHERTIGHT CONDITION. FOR ALL AREAS TO REMAIN OUTSIDE OF WORK AREA. TAKE CARE TO PROTECT FROM DUST, DIRT, AND DAMAGE. PROVIDE CARPET COVERINGS AND WALK OFF MATS. DO NOT DISTURB ELECTRICAL, PLUMBING, AND HVAC SERVING THESE AREAS UNLESS REQUIRED TO PERFORM CONTRACTED WORK. THE GC IS TO COORDINATE ANY NECESSARY SHUT DOWNS WITH OWNER.
2. DEMOLITION WASTE TO BE REMOVED FROM SITE BY DEMOLITION CONTRACTOR AND DISPOSED OF PROPERLY.
3. REPAIR OR REPLACE ANY ITEMS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION TO APPEAR AS NEW.
4. COORDINATE MEPFP REMOVALS WITH MEPFP DRAWINGS.
5. ITEMS NOT LABELED OR KEYED FOR REMOVAL / DEMOLITION ARE EXISTING AND INTENDED TO REMAIN. PROTECT THESE ITEMS FROM DAMAGE.
6. PROTECT EXISTING HVAC UNITS AND DUCTWORK FROM DUST DURING CONSTRUCTION.
7. COORDINATE WITH OWNER ON EXACT DEMOLITION INTENT BEFORE DEMOLITION.



3 First Floor Reflected Ceiling Demolition Plan
SCALE: 1/8" = 1'-0"



2 Roof Demolition Plan
SCALE: 1/8" = 1'-0"



1 First Floor Demolition Plan
SCALE: 1/8" = 1'-0"

Fukui Architects Pc

205 Ross Street
Pittsburgh, Pennsylvania 15219
ph 412.281.6001 fx 412.281.6002

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seal

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drawing title

Demolition Plan and RCP Demolition Plan Legend, First Floor Demolition Plan, Roof Demolition Plan, First Floor Reflected Ceiling Demolition Plan

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date
05.19.2026

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Sheet No.

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Project #2441

FLOOR PLAN LEGEND

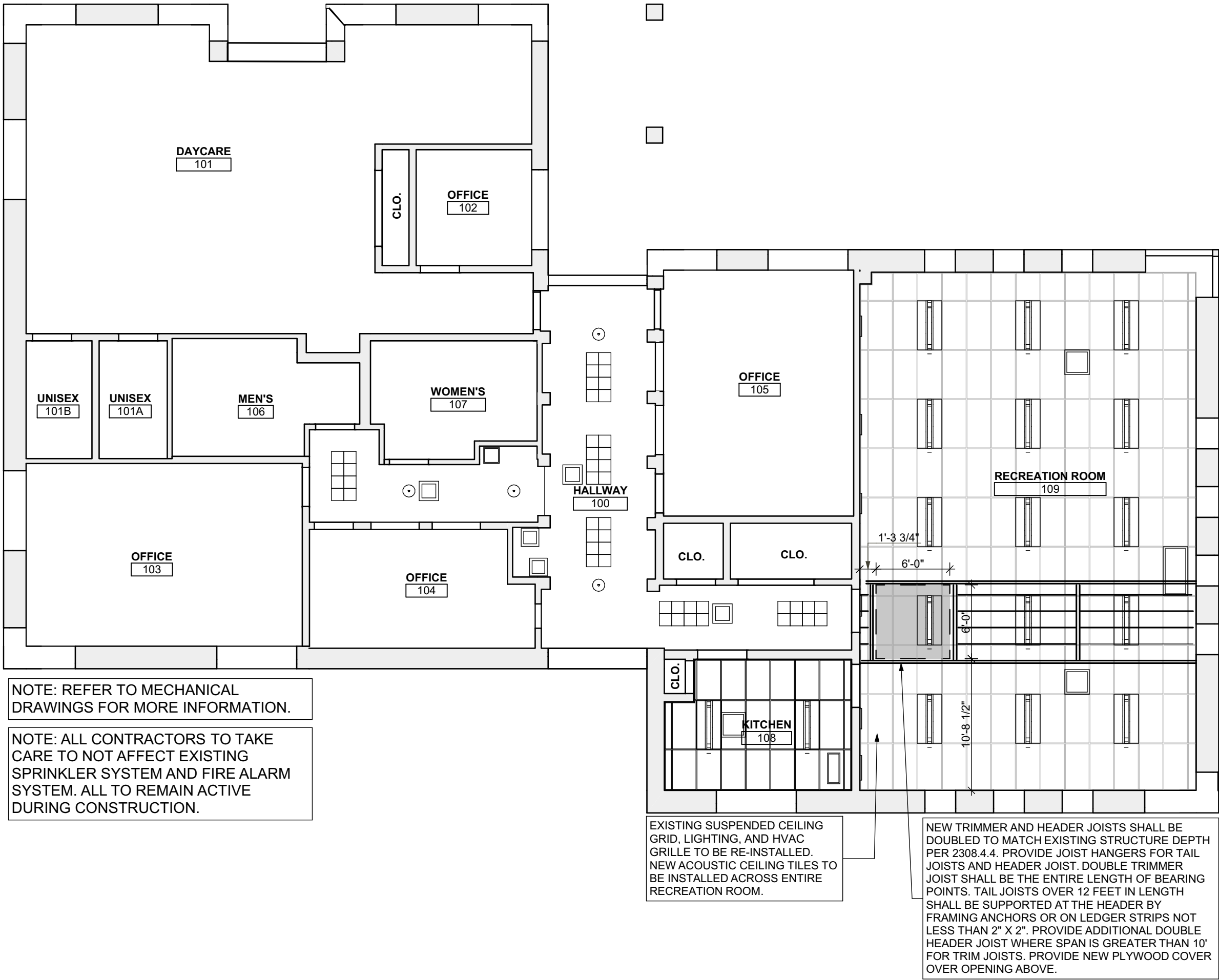
- EXISTING WALL TO REMAIN
- ROOM NAME AND NUMBER
- EXISTING DOOR

CEILING LEGEND

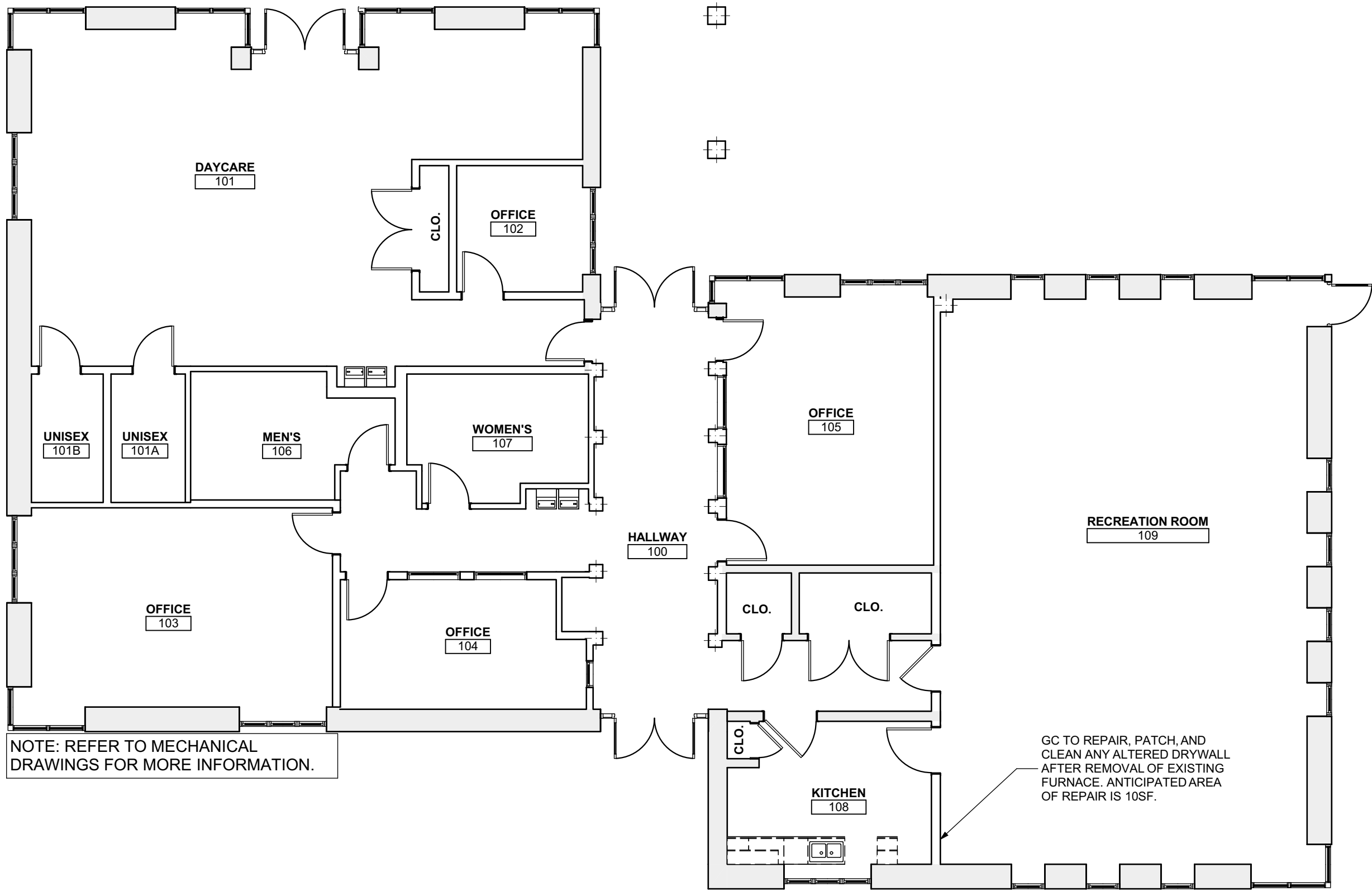
- CEILING HEIGHT AND MATERIAL
- EXISTING CEILING, SEE GENERAL NOTE 4
- CEILING GRID AND TILE.

GENERAL FLOOR PLAN NOTES

- CONTRACTOR TO FIELD VERIFY ANY AND ALL CONDITIONS & DIMENSIONS OF WORK AREAS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- THE FINISH FLOOR OF THIS PROJECT IS IDENTIFIED AT 0'-0" IN THIS SET OF DRAWINGS.
- ALIGN NEW WALL CONSTRUCTION WITH EXISTING WALL CONSTRUCTION. FINISH NEW PARTITION SMOOTH TO FORM A SEAMLESS JOINT BETWEEN NEW & EXISTING PARTITIONS.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS. NOTIFY ARCHITECT IN WRITING OF ANY INCONSISTENT OR MISSING DIMENSIONS.
- DIMENSIONS SHOWN INDICATE FINISHED FACE TO FINISHED FACE, UNLESS NOTED OTHERWISE.
- AT WALLS EXISTING TO REMAIN, PATCH AND PAINT ANY HOLES OR DAMAGE TO APPEAR NEW.



2 First Floor Reflected Ceiling Plan
SCALE: 1/8" = 1'-0"



1 General Floor Plan
SCALE: 1/8" = 1'-0"

Fukui Architects Pc

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drawing title

Floor Plan and RCP Floor Plan
Legend, General Floor Plan, First
Floor Reflected Ceiling Plan, Reflected
Ceiling Plan Legend

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As Noted

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05.19.2026

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Project #2441

HVAC DEMOLITION SYMBOLS:

	DEMOLISHED SUPPLY DUCT UP/DOWN
	DEMOLISHED RETURN DUCT UP/DOWN
	DEMOLISHED SUPPLY/RETURN DUCT
	DEMOLISHED THERMOSTAT/CONTROLS
	DEMOLISHED STEAM PIPING
	DEMOLISHED CONDENSATE RETURN PIPING
	DEMOLISHED CHILLED WATER SUPPLY PIPING
	DEMOLISHED CHILLED WATER RETURN PIPING
	DEMOLISHED CONDENSER WATER SUPPLY PIPING
	DEMOLISHED CONDENSER WATER RETURN PIPING
	DEMOLISHED ELBOW DOWN
	DEMOLISHED ELBOW UP

HVAC SYMBOLS & LEGEND:

	NEW DUCT (WIDTH x DEPTH, NOT INCLUDING INSULATION)
	DUCT WITH INTERNAL LINING
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	FLEXIBLE CONNECTION
	ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES ON SUPPLY AIR)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW
	VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
	CONNECT NEW DUCT TO EXISTING DUCT
	INCLINED RISE, IN DIRECTION OF AIR FLOW
	INCLINED DROP, IN DIRECTION OF AIR FLOW
	MANUAL SPLITTER DAMPER
	STANDARD BRANCH SUPPLY OR
	RETURN, NO SPLITTER (45° TAP)
	CEILING DIFFUSERS
	SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN CEILING REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
	MANUAL VOLUME DAMPER
	HORIZONTAL FIRE DAMPER
	VERTICAL FIRE DAMPER
	VERTICAL FIRE SMOKE DAMPER
	BACK DRAFT DAMPER
	MOTORIZED DAMPER
	DUCT MOUNTED COIL (HOT WATER OR STEAM COIL)
	VARIABLE VOLUME TERMINAL UNIT
	FAN POWERED VARIABLE VOLUME TERMINAL UNIT
	UNIT HEATER (HORIZONTAL)

HVAC SYMBOLS & LEGEND (CONT.):

	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT HOT GAS
	CONDENSER WATER TO TOWER
	CONDENSER WATER FROM TOWER
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED GLYCOL-WATER SUPPLY
	CHILLED GLYCOL-WATER RETURN
	CONDENSATE
	HOT WATER HEATING SUPPLY
	HOT WATER HEATING RETURN
	HOT GLYCOL-WATER HEATING SUPPLY
	HOT GLYCOL-WATER HEATING RETURN
	STEAM SUPPLY
	STEAM CONDENSATE RETURN
	PIPE CONNECTION, 45° OR 90°
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	WATER FLOW MEASURING DEVICE
	ANCHOR
	REDUCER OR INCREASER
	GATE VALVE
	GLOBE VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	BALANCING VALVE
	CIRCUIT SETTER
	STRAIGHT-THRU MODULATING CONTROL VALVE
	STRAIGHT-THRU TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	AUTOMATIC FLOW CONTROL VALVE
	SAFETY OR PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	THERMOSTAT (ASSOC. EQUIP.)
	HUMIDISTAT
	DUCT DETECTOR
	DUCT HIGH PRESSURE SENSOR
	DUCT STATIC PRESSURE SENSOR
	CARBON DIOXIDE SENSOR
	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE SHOWN
	VARIABLE AIR VOLUME
	AHU SYSTEM #
	BOX #
	TYPICAL UNIT NO.
	DIFFUSER CALLOUT
	RETURN/EXHAUST/TRANSFER GRILLE

HVAC ABBREVIATIONS:

AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BFC	BELOW FINISHED CEILING
BIW	BACKWARD INCLINED WHEEL
BG	BOTTOM GRILLE (WALL TYPE)
BJ	BETWEEN JOISTS
BOD	BOTTOM OF DUCT
BR	BOTTOM REGISTER (WALL TYPE)
C	CONVERTOR
CC	COOLING COIL
CCF	CENTRIFUGAL CEILING FAN
CD	CEILING DIFFUSER
CF	CENTRIFUGAL FAN
CG	CEILING GRILLE
CH	CHILLER UNIT
CO	CLEAN OUT
COMP.	COMPRESSOR
CONV.	CONVECTOR
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	COLD WATER
Db	DRY BULB TEMPERATURE
dB	DECIBELS
DD	DUCT SMOKE DETECTOR
DP	DEWPOINT TEMPERATURE
DR	DAMPER
DWG(S)	DRAWING(S)
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC COIL DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFR	EXHAUST FAN ROOF
END	END OF MAIN DRIP (STEAM)
ERV	ENERGY RECOVERY UNIT
ERP	ELECTRIC RADIANT CEILING PANEL
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EX	EXISTING
ETR	EXISTING TO REMAIN
FC	FAN COIL UNIT
FCW	FORWARD CURVED FAN
FLR	FLOOR
FDPR	FIRE DAMPER
FTR	FIN TUBE RADIATION
GH	GRAVITY HOOD
GC	GENERAL CONTRACTOR
GRV	GRAVITY RELIEF VENTILATOR
HC	HEATING COIL
HD	HOOD
HEX	HEAT EXCHANGER
HF	HEPA FILTER
HP	HORSEPOWER
HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HRP	HYDRONIC RADIANT CEILING PANEL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IFB	INTEGRAL FACE AND BYPASS
IU	INDUCTION UNIT
IV	INLET VANES
LCD	LINEAR CEILING DIFFUSER
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LBS/HR	POUNDS PER HOUR
MA	MAKEUP AIR
MB	MIXING BOX
MC	MECHANICAL CONTRACTOR
MAX	MAXIMUM
MIN	MINIMUM
NOM	NOMINAL
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTDOOR AIR
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RF	RETURN FAN
RH	REHEAT COIL
Rh	RELATIVE HUMIDITY
RV	POWER TYPE ROOF VENTILATOR
SA	SUPPLY AIR
SD	SMOKE DAMPER
Sp. Gr.	SPECIFIC GRAVITY
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
TJ	THROUGH JOISTS
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UJ	UNDER JOISTS
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VCC	VOLUMETRIC CONTROL CENTER
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VR	VACUUM STEAM CONDENSATE RETURN
Wb	WET BULB TEMPERATURE
WF	WATER FILTER
WFMD	WATER FLOW MEASURING DEVICE
WP	WEATHER PROOF

HVAC GENERAL NOTES:

- ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER AND ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE LATEST APPLICABLE EDITIONS OF NFPA, IEEE, OSHA, SMACNA, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, STATE, COUNTY, AND LOCAL CODES.
- HVAC CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM AS PART OF THE CONTRACT. FAILURE TO REVIEW DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING THE CONTRACTUAL OBLIGATIONS.
- THE HVAC CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES, AND OTHER COSTS IN CONNECTION WITH HIS WORK. THE CONTRACTOR SHALL FILE ALL NECESSARY APPROVALS OF ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK. JURISDICTION, THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK, WITHOUT EXTRA COST TO THE OWNER. ALL LABOR, MATERIALS, SERVICES, APPARATUS, IN ORDER TO COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, RIGGING, APPLIANCES, TOOLS AND ACCESSORIES REQUIRED TO PROVIDE, INSTALL, CONNECT, AND TEST THE COMPLETE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AND ASSOCIATED EQUIPMENT IN ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS.
- THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL HVAC EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL SYSTEMS.
- COORDINATE INSTALLATION OF ALL NEW WORK WITH ARCHITECTURAL AND STRUCTURAL PLANS AND ALL OTHER TRADES. CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS AND TRANSITIONS WITH AREAS EQUIVALENT TO DUCT SIZES INDICATED ON DRAWINGS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS AND STRUCTURAL STEEL LOCATIONS AND SIZES. COORDINATE INSTALLATION OF ALL PIPING AND DUCTWORK, AND INSTALL ALL PIPING IN JOIST SPACE OR AS HIGH AS POSSIBLE TO PERMIT INSTALLATION OF ALL DUCTWORK. OFFSET DUCTWORK AS REQUIRED IN ORDER TO ACCOMMODATE WORK OF ALL OTHER TRADES.
- DO NOT INSTALL ANY MECHANICAL WORK ABOVE ELECTRICAL PANELS OR EQUIPMENT.
- FOR ALL BRANCH DUCT CONNECTIONS TO MAIN TRUNK, PROVIDE 45 DEGREE TRANSITION FITTING OR CONICAL TAP FOR ROUND DUCT. BUTT FITTINGS ARE NOT PERMITTED. PROVIDE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT IN ALL BRANCH RUNOUTS TO GRILLES AND DIFFUSERS.
- PROVIDE MITERED ELBOW WITH TURNING VANES OR ELBOW WITH CENTERLINE RADIUS EQUAL TO 1.5 TIMES DUCT WIDTH AT ALL CHANGES IN DIRECTION.
- INSTALL ALL FIRE DAMPERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE UL FIRE DAMPERS WITH BLADES OUT OF AIR STREAM. PROVIDE ACCESS DOOR AT ALL FIRE DAMPER LOCATIONS. FIRE DAMPERS IN RETURN AIR TRANSFER DUCTS ONLY MAY HAVE BLADES IN AIR STREAM.
- THE FINISH AND COLOR OF ALL EXPOSED DUCTWORK, EQUIPMENT, AND AIR DEVICES SHALL BE COORDINATED WITH THE ARCHITECT. DUCTWORK THAT IS TO BE PAINTED SHALL BE OIL FREE.
- VERIFY ALL EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
- PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT INCLUDING WEATHERPROOF UNITS AS REQUIRED.
- PROVIDE PHASE LOSS PROTECTION FOR ALL POLY-PHASE MOTOR DEVICES.
- THE FINAL LOCATION OF AIR DEVICES MUST BE COORDINATED WITH THE REFLECTED CEILING PLAN AND ALL OTHER MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL SYSTEMS.
- DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL, EXCEPT WHERE NOTED. IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE ASHRAE, NFPA, AND SMACNA RECOMMENDATIONS. SIZES AS SHOWN INDICATE INSIDE CLEAR DIMENSIONS OF THE AIR PASSAGE.
- DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS MAINTAINED.
- ALL CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE- IN-SHEAR HANGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE LOAD.
- PROVIDE FLEXIBLE CONNECTIONS AND VIBRATION ISOLATION ON ALL HVAC EQUIPMENT .
- HVAC EQUIPMENT SHALL NOT RUN DURING CONSTRUCTION.
- PROVIDE AIR VENTS AT HIGHEST POINTS OF HYDRONIC SYSTEM.
- ALL MOTORS SHALL BE NEMA PREMIUM EFFICIENCY MOTORS.
- PROVIDE COGGED BELTS FOR ALL FAN DRIVES.
- M.C. SHALL BE RESPONSIBLE FOR ALL LOOSE LINTELS NECESSARY FOR INSTALLATION OF HIS MATERIALS. SIZES OF LINTELS SHOWN ON STRUCTURAL DRAWINGS.

HVAC GENERAL NOTES (CONT.):

- CONTRACTOR TO VERIFY THAT ALL MATERIALS, CONDUITS, PIPES, AND WIRING SHALL BE PLENUM RATED IF EXPOSED IN PLENUM SPACE. NON-PLENUM RATED MATERIALS MUST BE PROTECTED SUCH THAT A PLENUM RATING IS MAINTAINED BETWEEN THE MATERIAL OR DEVICE AND THE PLENUM SPACE. CONTRACTOR SHALL NOTIFY ENGINEER IF NON-PLENUM-RATED WIRING EXISTS.
- ALL METALLIC AND NON-METALLIC DUCTWORK JOINTS AND SEAMS SHALL BE SEALED, TAPED OR GASKETED.
- ALL METALLIC AND NON-METALLIC DUCTWORK JOINTS AND SEAMS SHALL BE SEALED, TAPED OR GASKETED. THE MECHANICAL CONTRACTOR SHALL HAVE A THIRD PARTY CONTRACTOR TEST AND BALANCE ALL SYSTEMS PER DESIGN DOCUMENTS. PROVIDE A COPY OF THE TESTING AND BALANCING REPORT TO THE ENGINEER AND A COPY TO THE MECHANICAL INSPECTOR FOR REVIEW.
- ALL CONTROL DEVICES, HEAT EXCHANGERS, AND HVAC SYSTEM COMPONENTS SHALL BE ACCESSIBLE WIHTOUT DISABLING FUNCTION OR VIOLATING A FIRE RATED ASSEMBLY OR REMOVING PERMANENT CONSTRUCTION. OTHER APPLIANCES, VENTING SYSTEMS OR PIPING/DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED. A LEVEL WORKING SURFACE OF AT LEAST 30" DEEP BY 30" WIDE SHALL BE PROVIDED ON CONTROL SIDE OF APPLIANCE.
- FLOAT CONTROL SWITCHES SHALL BE INSTALLED ON ALL HVAC EQUIPMENT IN WHICH CONDENSATE DRAIN PIPING IS UTILIZED AND REQUIRED. A DETECTION OF OVERFLOW OR FAILURE BY THE FLOAT CONTROL SWITCH SHALL DEACTIVATE THE HVAC EQUIPMENT IT IS ASSOCIATED WITH.
- CONDENSATE PUMPS SHALL BE CONNECTED TO APPLIANCES OR EQUIPMENT WHERE NOTED SUCH THAT WHEN THE CONDENSATE PUMP FAILS, THE APPLIANCE OR EQUIPMENT BEING SERVED BY THE PUMP WILL BE DE-ENERGIZED AND SHALL SHUT DOWN. FLOAT CONTROLS SHALL BE WIRED IN SERIES WITH HVAC EQUIPMENT TO ENSURE THIS CONDITION.
- THE MAXIMUM LENGTH OF EXHAUST DUCT FOR A DRYER SHALL BE DETERMINED BY THE INSTALLATION AND MAXIMUM EQUIVALENT LENGTH REQUIREMENTS OF THE DRYER MANUFACTURER.
- REFRIGERATION ACCESS PORTS SHALL BE PROTECTED IN ACCORDANCE WITH IMC 2015 SECTION 1101.10 WHENEVER REFRIGERANT IS ADDED TO OR REMOVED FROM REFRIGERATION OR AIR CONDITIONING SYSTEMS.
- CONDENSATE DRAIN LINES TO BE CONFIGURED OR EQUIPPED TO ALLOW FOR MAINTENANCE OF THE DRAIN, CAPS OR TEES, CROSS FITTINGS, UNIONS, REMOVABLE MECHANICAL COUPLINGS AND SPECIALTY DEVICES MAY BE USED TO ALLOW FOR MAINTENANCE OF CONDENSATE DRAIN PIPING.
- ALL EXHAUST AIR AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES. BIRDSCREENS ARE TO BE PROVIDED FOR ALL MECHANICAL AIR INTAKE AND EXHAUST OUTLET LOUVERS.
- PROVIDE DRIP PANS AND EQUIPMENT PADS AT ALL NEW OR REINSTALLED EQUIPMENT.

scale

general notes

- Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.
- Contractor shall verify all dimensions and existing conditions in the field and shall advise **Fukui Architects, Pc** of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. **Do not scale drawings.**
- All work shall be installed in accordance with applicable codes and regulations.
- Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.
- All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.
- All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law statutory, and other reserved rights, including the copyright thereto.

revisions

- ISSUE FOR CLIENT REVIEW 02.28.2025
- ISSUE FOR BID AND PERMIT 09.24.2025
- ISSUE FOR ZDR REVISIONS 01.07.2026
- IFC & IFB 05.19.2026

project title

Owner:

HACP
412 Boulevard of the Alies
Pittsburgh, PA, 15219

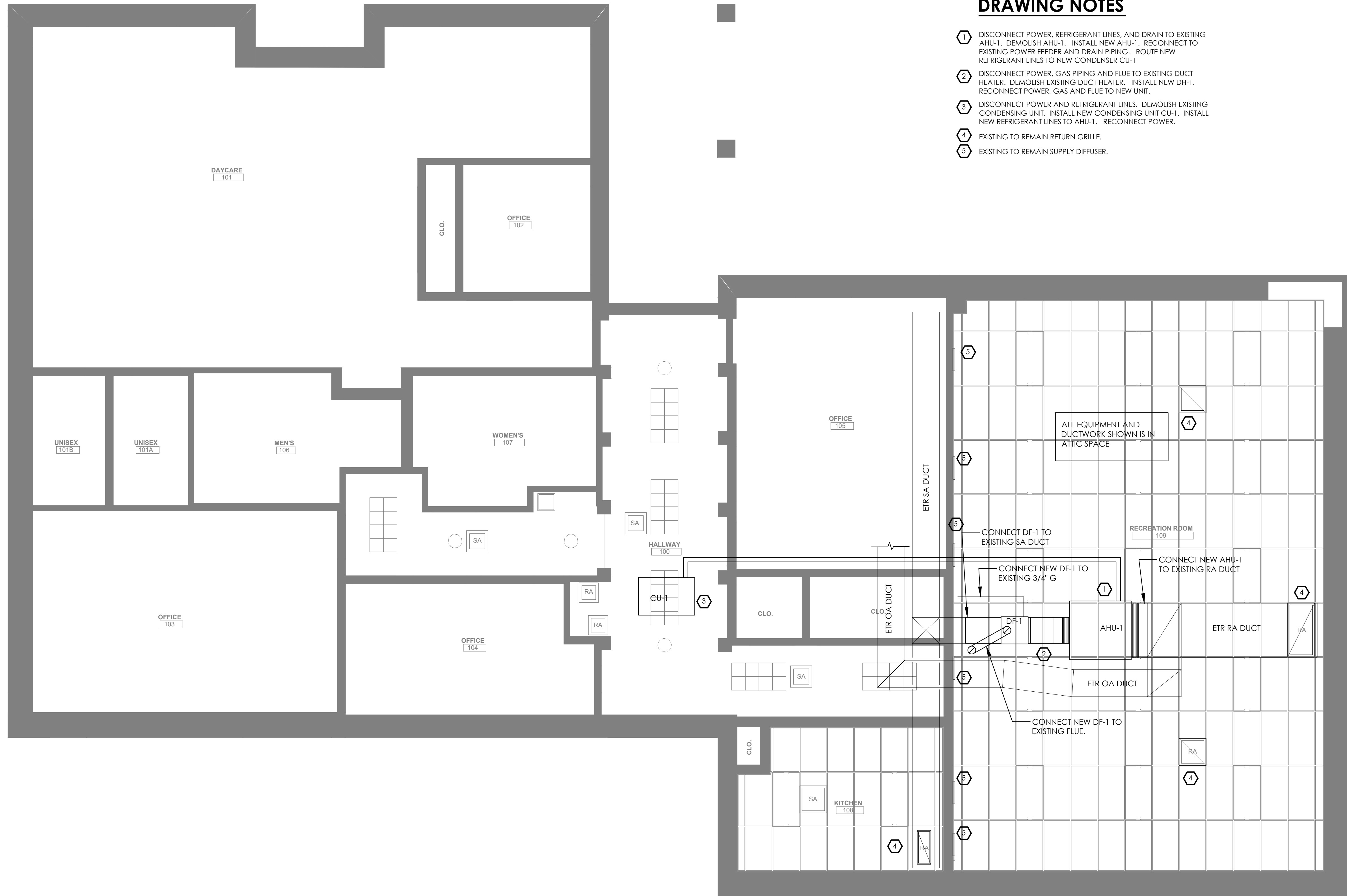
Project Location:

Homewood North - Community Center
HVAC Work Replacement
10 Alberville St.
Pittsburgh, PA 15208

drawing title

Mechanical Notes HACP
Homewood_Mechanical Set

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date	05.19.2026	
no.	7	
of.	10	M000
		Project #2441



DRAWING NOTES

1. DISCONNECT POWER, REFRIGERANT LINES, AND DRAIN TO EXISTING AHU-1. DEMOLISH AHU-1. INSTALL NEW AHU-1. RECONNECT TO EXISTING POWER FEEDER AND DRAIN PIPING. ROUTE NEW REFRIGERANT LINES TO NEW CONDENSER CU-1
2. DISCONNECT POWER, GAS PIPING AND FLUE TO EXISTING DUCT HEATER. DEMOLISH EXISTING DUCT HEATER. INSTALL NEW DH-1. RECONNECT POWER, GAS AND FLUE TO NEW UNIT.
3. DISCONNECT POWER AND REFRIGERANT LINES. DEMOLISH EXISTING CONDENSING UNIT. INSTALL NEW CONDENSING UNIT CU-1. INSTALL NEW REFRIGERANT LINES TO AHU-1. RECONNECT POWER.
4. EXISTING TO REMAIN RETURN GRILLE.
5. EXISTING TO REMAIN SUPPLY DIFFUSER.

general notes

1. Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.
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project title

Owner:

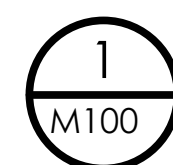
HACP
412 Boulevard of the Allies
Pittsburgh, PA, 15219

Project Location:

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HVAC Work Replacement
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Pittsburgh, PA 15208

drawing title

Mechanical Plan HACP
Homewood_Mechanical Set



MECHANICAL FLOOR PLAN

1/4" = 1' 0"

scale
As Noted

date
05.19.2026

no.

8

of.

10

Sheet No.

M100

Project #2441

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drawing title

Mechanical Details HACP
Homewood_Mechanical Set

scale
As Noted

date
05.19.2026

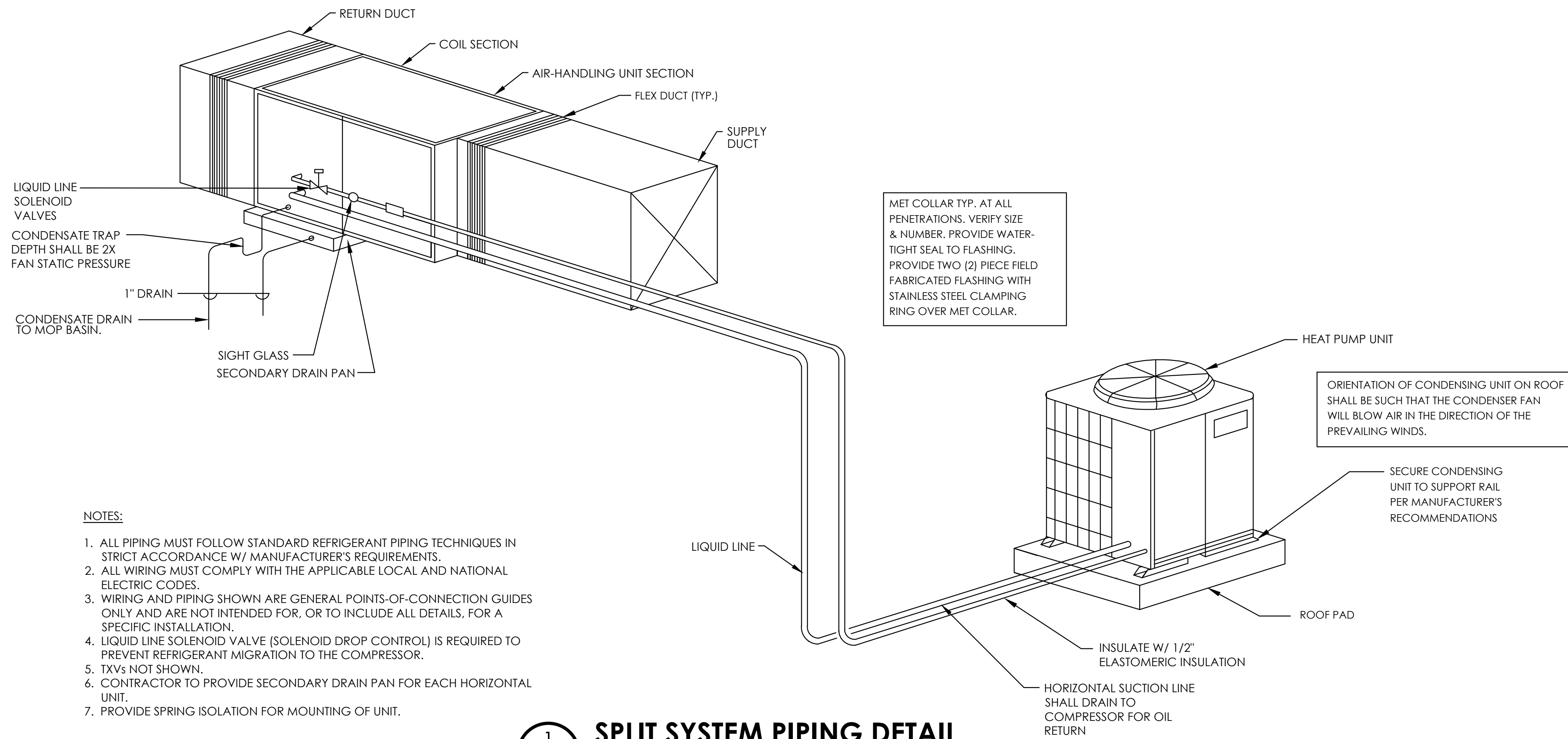
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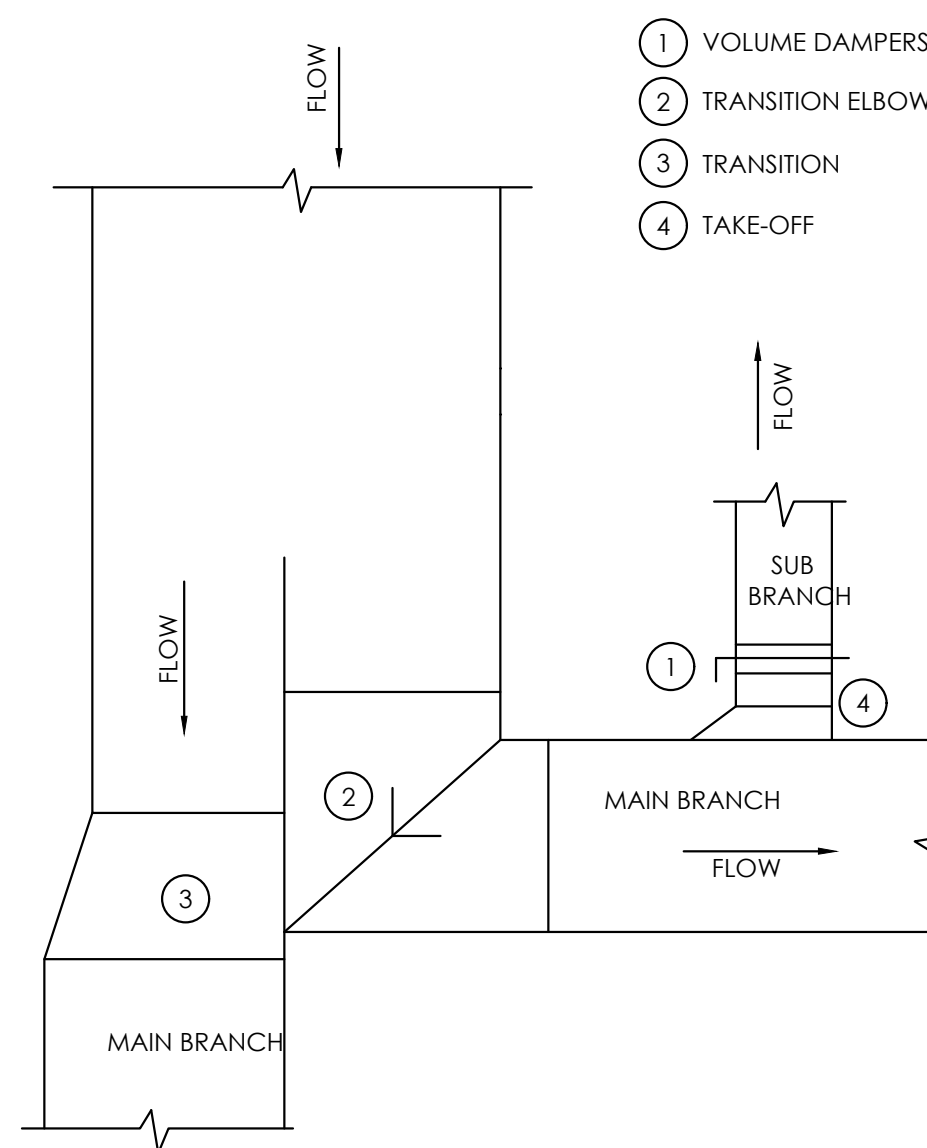
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M200

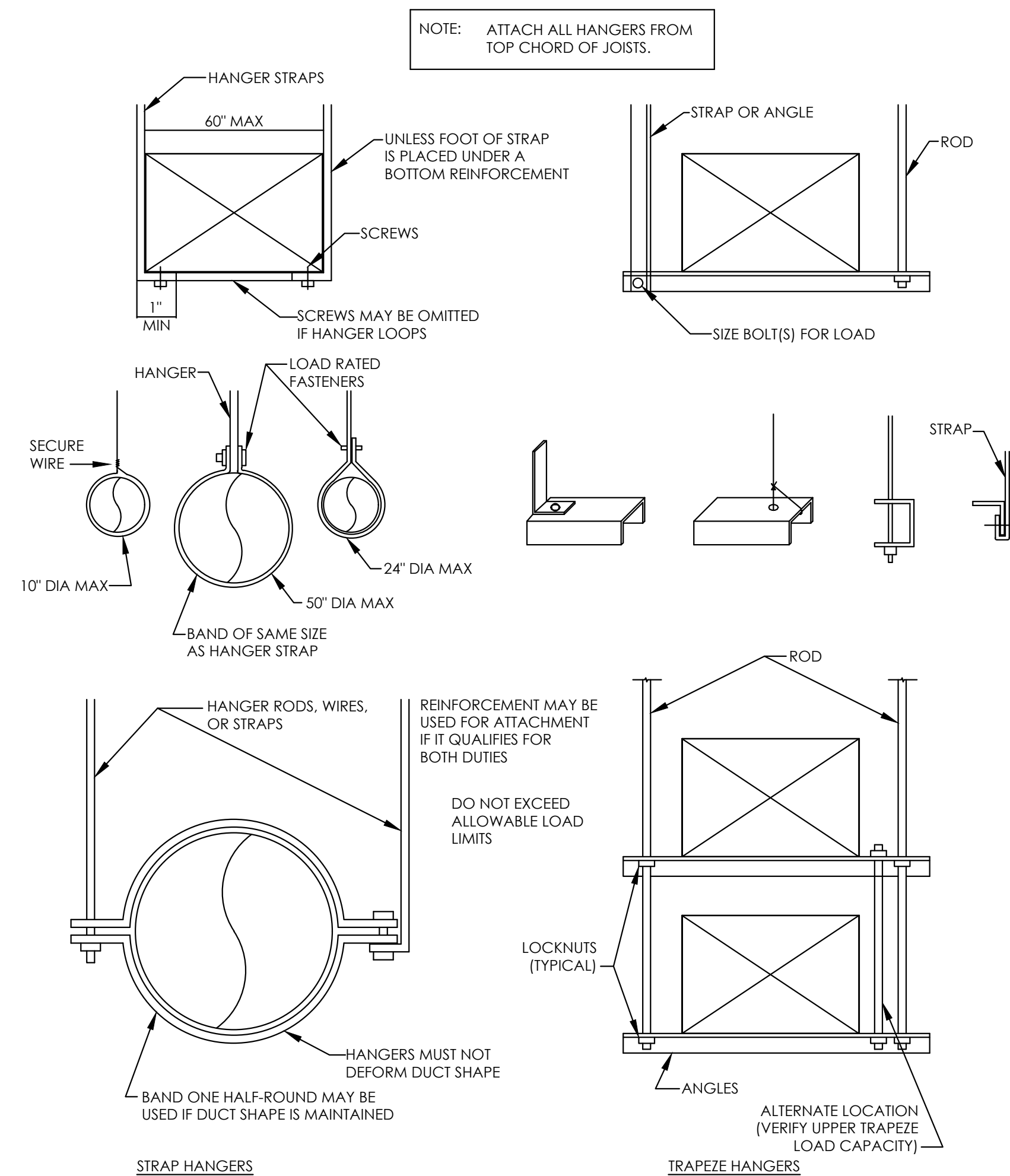
Project #2441



1
M200
NTS
SPLIT SYSTEM PIPING DETAIL



2
M200
NTS
BRANCH DUCT DETAIL



3
M200
NTS
HANGER ATTACHMENT DETAIL

AHU SCHEDULE

MARK	CFM	MIN. OA	DX COOLING						ELECTRICAL			WEIGHT	MANUFACTURER	MODEL	REMARKS
			TOTAL	SENSIBLE	EDB	EWB	LDB	LWB	V/PH/HZ	MCA	MOP				
AHU-1	3000	1035	91.8 MBH	72.6 MBH	80	67	55.2	55.2	208/3/60	36	60	345	LENNOX	EL090KASD-1Y	* SEE NOTE 1 BELOW.

NOTE (1): HORIZONTAL AIR HANDLER, BELT-DRIVEN BLOWER MOTOR, FULLY INSULATED CABINET, MULTI-CIRCUIT, COPPER EVAPORATOR COILS, R454B REFRIGERANT, DRAIN PAN, EXTERNAL FILTER RACK, MULTISTAGE AIR VOLUME, SECONDARY DRAIN PAN, AIR FLOW SWITCH, STANDARD FILTERS, DISCONNECT, 7-DAY PROGRAMMABLE THERMOSTAT.

CONDENSING UNIT SCHEDULE

MARK	MFR.	MODEL	NOMINAL TONS	ELECTRICAL	MCA	MAX. FUSE	SUCTION LINE	LIQUID LINE	WEIGHT	REMARKS
CU-1	LENNOX	EL090KSST1Y	7.5	208/3/60	36	60	1-1/8"	5/8"	345 LBS	* SEE NOTE BELOW.

* CRANKCASE HEATER, IEEER 14.8, EVAPORATOR FREEZE T-STAT, LOW AMBIENT PRESSURE SWITCH KIT, HARD START KIT, THERMOSTATIC EXPANSION VALVE, LIQUID LINE SOLENOID VALVE, HIGH & LOW PRESSURE SWITCHES, FILTER DRYER, FUSED DISCONNECT & SITE GLASS. INSTALL REFRIGERATION LINES IN ACCORDANCE WITH MANUFACTURERS LONG LINE APPLICATION GUIDE FOR LINE SETS OVER 80 FEET.

OUTDOOR AIR VENTILATION SCHEDULE

THERMAL ZONE	OCCUPANCY TYPE	AREA (SQ.FT.)	AREA OA RATE (CFM/SQ.FT.)	PEOPLE OA RATE (CFM/PERSON)	ZONE POPULATION	TOTAL OA REQUIRED (CFM)	VENTILATION TYPE	TOTAL EA REQUIRED (CFM)
		Az	Ra	Rp	Pz	Vz		Vz
COMMUNITY RM	MULTIPURPOSE	1500	0.06	5	180	990	MECHANICAL	-
OFFICE	OFFICE	310	0.06	5	2	30	MECHANICAL	-
BREAK ROOM	KITCHEN	150	0.06	5	1	15	MECHANICAL	-

GAS DUCT FURNACE SCHEDULE

MARK	LOCATION	MFR.	MODEL	BTUH/HR	ELECTRICAL	AMPS	REMARKS
DF-1	ATTIC	MODINE	DFG200	200,000	120/1Ø/60	14.5	PROVIDE DISCONNECT, INTEGRAL THERMOSTAT, MOUNTING BRACKETS

DUCTWORK MATERIAL AND INSULATION SCHEDULE

MARK	SYSTEM	MATERIAL	PRESSURE CLASS	INSULATION
SA	SUPPLY AIR - ATTIC	GALVANIZED, G90	SMACNA 1"	2" FIBERGLASS WRAP WITH VAPOR BARRIER
OA	OUTSIDE AIR - ATTIC	GALVANIZED, G90	SMACNA 1"	2" FIBERGLASS WRAP
RA	RETURN AIR - ATTIC	GALVANIZED, G90	SMACNA 1"	2" FIBERGLASS WRAP WITH VAPOR BARRIER

SEQUENCE OF OPERATION:

AHU[s] & CU[s]

THE FOLLOWING SEQUENCE OF OPERATION SHALL BE PROVIDED:

UNOCCUPIED MODE:

DURING THE UNOCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE CLOSED. THE HEAT PUMP HEATING SHALL MAINTAIN A MINIMUM TEMPERATURE OF 60 DEGREES F. IF TEMPERATURE CONTINUES TO FALL, THE ELECTRIC RESISTANCE HEATER SHALL ENERGIZE. THE DX COOLING SHALL MAINTAIN A MAXIMUM TEMPERATURE OF 80 DEGREES. THE SUPPLY FAN SHALL OPERATE INTERMITTENTLY AS NECESSARY TO MAINTAIN SPACE TEMPERATURE.

OCCUPIED MODE:

DURING THE OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% OPEN POSITION.

A PRESSURE SWITCH ACROSS THE AIR FILTER SHALL BE PROVIDED. THIS SHALL PROVIDE AN ALARM ON THE 7-DAY PROGRAMMABLE THERMOSTAT.

SPACE TEMPERATURE SHALL BE MAINTAINED VIA A PROGRAMMABLE 7-DAY THERMOSTAT. THE THERMOSTAT SHALL BE SET TO MAINTAIN 74 DEGREES IN THE SUMMER AND 72 DEGREES IN THE WINTER. AS THE SPACE TEMPERATURE RISES ABOVE THE TEMPERATURE SETPOINT, THE DX COOLING SHALL BE ENERGIZED. AS THE SPACE TEMPERATURE FALLS BELOW SPACE TEMPERATURE THE DX COOLING SHALL BE DE-ENERGIZED. THE SUPPLY FAN SHALL BE ENERGIZED CONTINUOUSLY DURING THE OCCUPIED MODE.

DF[s] & CU[s]

THE FOLLOWING SEQUENCE OF OPERATION SHALL BE PROVIDED:

UNOCCUPIED MODE:

DURING THE UNOCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE CLOSED. THE GAS-FIRED HEATING SHALL MAINTAIN A MINIMUM TEMPERATURE OF 60 DEGREES F. THE DX COOLING SHALL MAINTAIN A MAXIMUM TEMPERATURE OF 80 DEGREES. THE SUPPLY FAN SHALL OPERATE INTERMITTENTLY AS NECESSARY TO MAINTAIN SPACE TEMPERATURE.

OCCUPIED MODE:

DURING THE OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% OPEN POSITION.

A PRESSURE SWITCH ACROSS THE AIR FILTER SHALL BE PROVIDED. THIS SHALL PROVIDE AN ALARM ON THE 7-DAY PROGRAMMABLE THERMOSTAT.

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THE SUPPLY FAN SHALL BE ENERGIZED CONTINUOUSLY DURING THE OCCUPIED MODE..

UNIT TO SHUTDOWN UPON SENSING WATER IN SECONDARY CONTAINMENT PAN. PROVIDE ALARM AT 7-DAY PROGRAMMABLE THERMOSTAT.

seal

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Mechanical Schedules HACP
Homewood_Mechanical Set

scale As Noted	Sheet No. M300 Project #2441	
date 05.19.2026		
no. 10		
of. 10		