READING TERMINAL MARKET
CAPITAL IMPROVEMENTS

READING TERMINAL MARKET

51 NORTH 12TH STREET,
PHILADELPHIA PA 19107

PROJECT NUMBER: 071274
02/03/23
GENERAL PACKAGE

GENERAL	
G001	COVER SHEET
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ARCHITECTURAL	
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MD103	DEMOLITION GROUND FLOOR PLAN - AREA B
MD104	DEMOLITION GROUND FLOOR PLAN - AREA C
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M101	NEW WORK GROUND FLOOR OVERALL PLAN
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E101	GROUND FLOOR OVERALL PLAN
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READING TERMINAL MARKET since 1893

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Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTermMarket_A_R22.rvt
Central File: BIM360://_A_central_R20.rvt

Project Number: 071274
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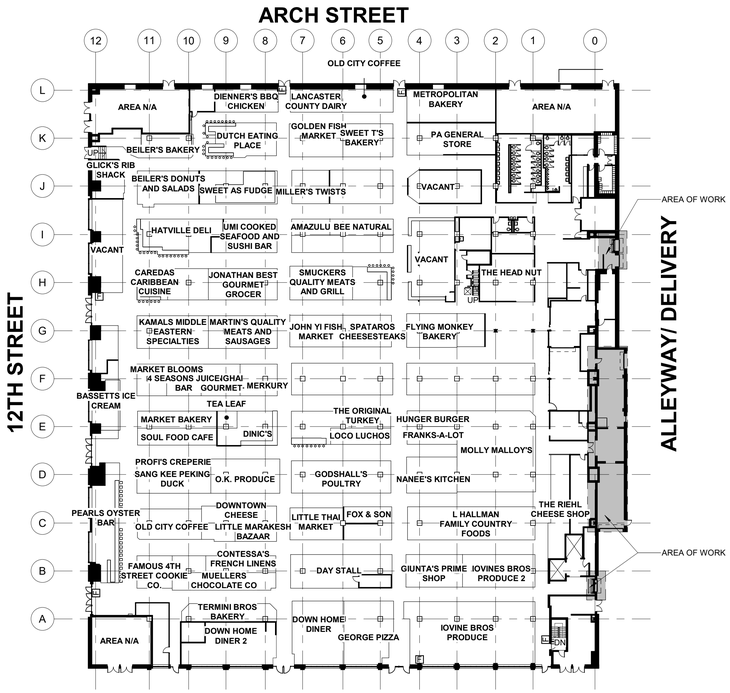
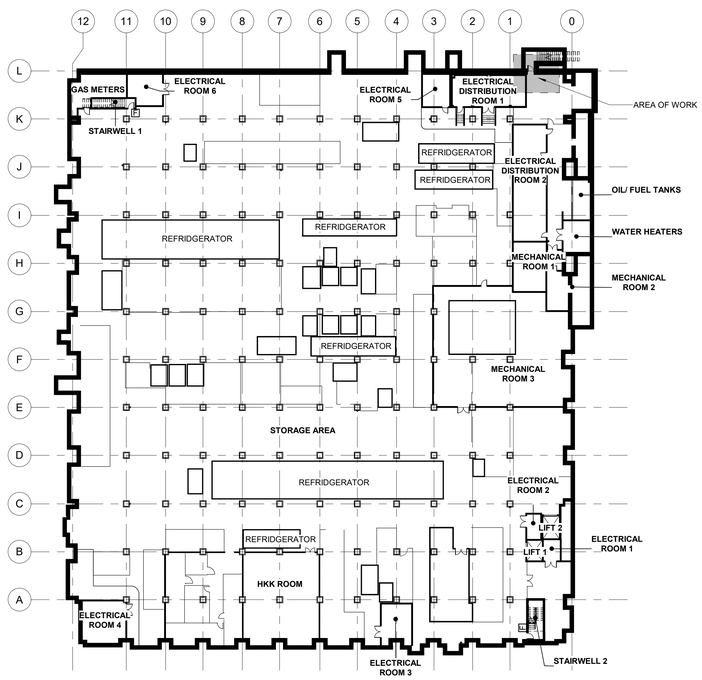


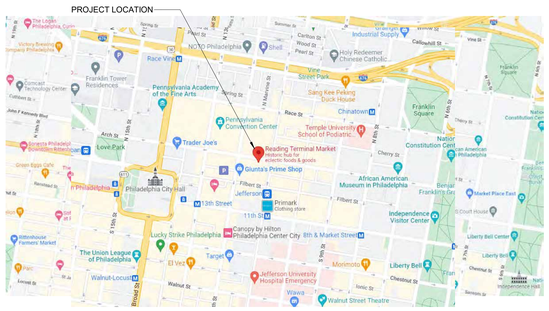
OVERALL GROUND FLOOR PLAN

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



OVERALL BASEMENT PLAN

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



PROJECT LOCATION

SCALE: NTS

BUILDING CODE SUMMARY

READING TERMINAL MARKET
PHILADELPHIA, PA

PROJECT DESCRIPTION: ARCHITECTURAL REPAIRS, PLUMBING REPLACEMENTS, MECHANICAL REPLACEMENTS, AND ELECTRICAL REPLACEMENTS ARE PROPOSED FOR THIS PROJECT. THERE IS NO CHANGE IN OCCUPANCY OR USE. REFER TO THE SUMMARY OF WORK.

APPLICABLE CODE(S):
THE PHILADELPHIA BUILDING CONSTRUCTION AND OCCUPANCY CODE (PBCOC)
INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2018, ALTERATION LEVEL 2.

ALT 2 - THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

OCCUPANCY CLASSIFICATION:

THERE IS NO CHANGE IN OCCUPANCY OR USE GROUP FOR THIS SCOPE OF WORK.

HISTORIC BUILDING:

THE READING TERMINAL MARKET IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES AND THE PHILADELPHIA REGISTER OF HISTORIC PLACES. THE PROPOSED WORK INCLUDES REPAIRS AND REPLACEMENTS, AND SHOULD NOT IMPACT THE HISTORIC NATURE OF THE SPACE.

SUMMARY OF WORK:

BASEMENT – EXTERIOR DOOR B01:

A. REMOVE EXISTING HOLLOW METAL DOOR AND FRAME, AND REPLACE WITH NEW FIBERGLASS DOOR AND FRAME.

B. PROVIDE ALL NEW DOOR HARDWARE.

C. INSTALL NEW SURFACE-MOUNTED DOOR CONTACT ON INTERIOR FACE OF DOOR AND RECONNECT TO SECURITY SYSTEM AS DIRECTED BY OWNER.

D. CUT AND PATCH EXTERIOR CEMENT PLASTER WALL FINISH ADJOINING DOOR FRAME.

E. SEAL PERIMETER JOINTS OF FRAME ON INTERIOR AND EXTERIOR.

F. INFILL OPEN PENETRATION AROUND EXISTING CONDUIT IN MASONRY WALL ABOVE DOOR; SEAL WEATHERTIGHT.

GROUND FLOOR - STORAGE/RECYCLING AND TRASH COMPACTOR ROOMS:

A. OWNER WILL TEMPORARILY REMOVE, IN TWO PHASES, ALL MOVABLE EQUIPMENT AND OTHER NON-FIXED ITEMS STORED IN THESE SPACES.

B. CLEAN, REPAIR, AND OTHERWISE PREPARE CONCRETE FLOOR SURFACE TO RECEIVE APPLIED FINISH.

C. INSTALL THICKSET FLUID-APPLIED EPOXY FLOOR FINISH SYSTEM.

D. COORDINATE WORK WITH PLUMBING CONTRACTOR AND PLUMBING ALTERATIONS.

GROUND FLOOR - EXTERIOR DOORS 01 & 02:

A. THE EXISTING OVERHEAD METAL COILING SERVICE DOORS ON EXTERIOR OF THE OPENINGS ARE TO REMAIN UNDISTURBED, IN PLACE, AND IN USE.

B. COORDINATE WORK WITH ELECTRICAL CONTRACTOR AND ELECTRICAL ALTERATIONS (SEE ELECTRICAL CONTRACT DESCRIPTION).

C. PREPARE EXISTING OPENINGS AND INSIDE FACE OF WALLS FOR NEW RAPID-OPENING OVERHEAD DOORS. REMOVE EXISTING PLASTIC STRIP BARRIER ASSEMBLIES FROM THE OPENINGS. SELECTIVELY REMOVE EXISTING WOOD RAILS AND TRIM AS INDICATED; SECURELY FASTEN REMAINING PORTIONS OF RAILS AND TRIM.

D. DESIGN, FABRICATE, AND INSTALL STEEL FOREFRAME ASSEMBLIES FOR SUPPORT OF NEW RAPID-OPENING OVERHEAD DOORS. SECURELY ANCHOR FOREFRAMES BY BOLTING TO EXISTING MASONRY OR WELDING TO EXISTING-TO-REMAIN STEEL ASSEMBLIES IN THE OPENINGS. PAINT FOREFRAMES AFTER INSTALLATION.

E. FURNISH, ASSEMBLE, AND INSTALL NEW RAPID-OPENING OVERHEAD DOORS.

1) ANCHOR TO FOREFRAME ASSEMBLIES AND/OR EXISTING MASONRY WALLS.

2) INSTALL MOTOR CONTROLLER AND WIRED CONNECTIONS TO MOTOR AND MAIN POWER DISCONNECT.

3) INSTALL DOOR ACTIVATION AND SAFETY DEVICES AND RELATED POWER/CONTROL WIRING AND CONNECTIONS.

4) SEAL PERIMETERS OF FOREFRAMES AND NEW OVERHEAD DOOR ASSEMBLIES WEATHERTIGHT.

F. TEST OPERATION OF NEW DOORS. DEMONSTRATE TO AND TRAIN OWNER'S PERSONNEL.

PLUMBING:

A. REPLACE THE EXISTING EMERGENCY SHOWER WITH A NEW EMERGENCY EYE/FACE WASH FIXTURE, MIXING VALVE AND ALARM IN THE TRASH ROOM.

B. REMOVE COLD WATER PIPING, VALVES AND HOSE BIBS THROUGHOUT THE TRASH ROOM AND INSTALL NEW PIPING, INSULATION, VALVES AND HOSE BIBS.

C. REMOVE THE (3) EXISTING WALL HYDRANTS ON THE EXTERIOR OF THE BUILDING. REMOVE COLD WATER PIPING BACK INTO THE BUILDING. PROVIDE NON-FREEZE WALL HYDRANT, BALL VALVE, COLD WATER PIPING AND INSULATION.

D. REMOVE AND REPLACE TRENCH DRAINS AND ASSOCIATED PIPING IN TRASH / STORAGE ROOM UP TO THE EXTERIOR ENVELOPE.

MECHANICAL:

A. REPLACE HEAT PUMPS.

B. CLEAN DUCTWORK.

C. REMOVE ELECTRIC AIR CURTAIN HEATERS AT GROUND FLOOR DOORS 01 & 02. SALVAGE FOR OWNER. COORDINATE DISCONNECTION WITH ELECTRICAL CONTRACTOR.

ELECTRICAL:

A. BASEMENT - DOOR B01

1. REMOVE EXISTING DOOR CONTACT. REPLACE WITH NEW CONTACT AFTER INSTALLATION OF NEW DOOR AND FRAME. RECONNECT TO SECURITY SYSTEM AS DIRECTED BY OWNER.

B. GROUND FLOOR - EXTERIOR DOORS 01 & 02 - NEW RAPID-OPENING OVERHEAD DOORS:

1. DISCONNECT EXISTING ELECTRIC AIR CURTAIN HEATERS.

2. RELOCATE AND RECONNECT EXISTING ACTIVE WIRING, CONDUITS, BOXES, AND DEVICES THAT WILL OBSTRUCT WITH THE NEW OVERHEAD DOOR WORK.

3. REMOVE ANY INACTIVE/ABANDONED ELECTRICAL WORK THAT WILL OBSTRUCT THE NEW OVERHEAD DOOR WORK.

4. PROVIDE MAIN DISCONNECT AND POWER FOR THE NEW OVERHEAD DOORS.

C. HEAT PUMP REPLACEMENTS:

1. PROVIDE RELATED POWER REMOVALS AND NEW CONNECTIONS.

GANNETT FLEMING

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READING TERMINAL MARKET since 1893

READING TERMINAL MARKET

51 NORTH 12TH STREET, PHILADELPHIA PA 19107

READING TERMINAL MARKET CAPITAL IMPROVEMENTS

NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
TY	EVH	JS

DATE: 02/03/23

DRAWING TITLE: GENERAL

CODE FLOOR PLANS

DRAWING NO.: G002

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Central File: BIM360://_A_central_R20.rvt

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ABBREVIATIONS

ABV	ABOVE
AC	AIR CONDITIONING
ACST	ACOUSTIC
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
ASSN	ASSOCIATION
ASST	ASSISTANT
ASSY	ASSEMBLY
AVE	AVENUE
AVG	AVERAGE
B	BOTTOM
BALC	BALCONY
BD	BOARD
BETW	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BLR	BOILER
BM	BEAM
BM	BENCHMARK
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
CAB	CABINET
CAP	CAPACITY
CDR	COILING DOOR
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFGI	CONTRACTOR FURNISHED, GOVERNMENT INSTALLED
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMIU	CONCRETE MASONRY INSULATED UNIT
CMU	CONCRETE MASONRY UNIT
CNCL	CONCEALED
CO	CLEANOUT
CO	COMPANY
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CRV	CURVED
CSK	CONTERSINK/COUNTERSUNK
CTD	COATED
CTR	CENTER
CUH	CABINET UNIT HEATER
D	DEPTH
DBL	DOUBLE
DEG	DEGREE
DEP	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
E.G.	FOR EXAMPLE
EA	EACH
EF	EXHAUST FAN
EGEN	EMERGENCY GENERATOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENTR	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAB	FABRICATE
FBD	FIBERBOARD
FD	FLOOR DRAIN
FDN	FOUNDATION
FDR	FIRE DOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHY	FIRE HYDRANT
FIN	FINISH
FL	FLASHING
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FLRG	FLOORING
FP	FIREPROOF
FRP	FIBER-REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FTG	FOOTING
FURN	FURNITURE
GA	GAUGE / GAGE
GALV	GALVANIZED
GAR	GARAGE
GEN	GENERATOR
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
GL	GLASS
GLU-LAM	GLUE-LAMINATED
GOVT	GOVERNMENT
GR	GRADE
GRD	GROUND
GVL	GRAVEL
GYP	GYPSUM
H	HIGH
HDWE	HARDWARE
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HORIZ	HORIZONTAL
HPT	HIGH POINT
HT	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
I.E.	THAT IS
ICF	INSULATED CONCRETE FORM
ID	INSIDE DIAMETER
IH	INTAKE HOOD
INSUL	INSULATED
INTR	INTERIOR
JST	JOIST
JT	JOINT
L	LONG
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LG	LENGTH
LH	LEFT HAND
LIB	LIBRARY
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE
M	METER
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MGR	MANAGER
MH	MANHOLE
MIL	MILITARY
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
MLDG	MOLDING
MLP	METAL LATH AND PLASTER
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MOTOR OPERATED DAMPER
MTG	MOUNTING
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NRC	NOISE-REDUCTION COEFFICENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OPPOSITE HAND
OHDR	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
P/L	PROPERTY LINE
PASS	PASSENGER
PERF	PERFORATED
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PORC	PORCELAIN
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHOLRIDE
QTF	QUARRY TILE FLOOR
R	RADIUS
R	RISER
RD	ROOF DRAIN
RECP	RECEPTACLE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RWC	RAIN WATER CONDUCTOR
S	SOUTH
SAPC	SUSPENDED ACOUSTICAL PANEL CEILING
SCHED	SCHEDULE
SDG	SIDING
SEC	SECTION
SF	SQUARE FOOT
SGFT	STRUCTURAL GLAZED FACING TILE
SH	SHOWER
SHM	SECURITY HOLLOW METAL
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SIM	SIMILAR
SKY	SKYLIGHT
SLDR	SLIDING DOOR
SMLS	SEAMLESS
SPA	SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
STWY	STAIRWAY
SUPT	SUPERINTENDENT
SUPVR	SUPERVISOR
SURF	SURFACE
SUSP	SUSPENDED / SUSPENSION
SYS	SYSTEM
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/	TOP OF
TAN	TANGENT
TEL	TELEPHONE
TEMP	TEMPERORARY
TER	TERRAZZO
THRU	THROUGH
TLT	TOILET
TRTD	TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTEHRWISE
VAT	VINYL ASBESTOS TILE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VTR	VERTICAL
W	WEST
W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDR	WOOD DOOR
WH	WATER HEATER
WTRPRF	WATERPROOFING
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

GENERAL DEMOLITION NOTES

1. UNOBSTRUCTED ACCESS TO EXISTING EMERGENCY EXITS SHALL BE MAINTAINED AT ALL TIMES.
2. ALL DEBRIS AND UNUSED MATERIAL RESULTING FROM DEMOLITION SHALL BE DISPOSED OF OFF SITE IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL AUTHORITIES.
3. REMOVE EXISTING, EQUIPMENT, & DEVICES AS INDICATED.
4. REMOVAL OF EXISTING HVAC & PLUMBING FIXTURES & SAFING TO BE BY APPROPRIATE TRADES.
5. ALL CONTRACTORS ARE TO REPORT ALL UNEXPECTED, UNCOVERED EXISTING CONDITIONS WHICH IMPACT LAYOUT OF NEW WORK IMMEDIATELY TO ARCHITECT.
6. FOR EXTENT & SCOPE OF PLUMBING, MECHANICAL & ELECTRICAL REMOVALS, SEE INDIVIDUAL TRADE DRAWINGS.
7. CARE MUST BE TAKEN NOT TO DAMAGE EXISTING CONSTRUCTION. COORDINATE TIME OF LOUD/HEAVY NOISE CONSTRUCTION WITH OWNER TO LIMIT DISTURBANCE.
8. PROVIDE PORTABLE LIGHTING DURING DEMOLITION & CONSTRUCTION AS REQUIRED.
9. PROVIDE DUMPSTERS AND OTHER DEMOLITION EQUIPMENT AS REQUIRED.
10. REMOVE EXISTING WORK AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING EXISTING WALL & FLOOR FINISHES IN SPACES SCHEDULED TO BE REFINISHED.
11. PROVIDE APPROPRIATE FULL HEIGHT PROTECTION/TEMPORARY PARTITIONS PRIOR TO COMMENCING DEMOLITION. PLACED IN LOCATIONS APPROVED BY OWNER.
12. ALL BUILDING ACCESS AND REMOVAL OF MATERIALS MUST BE APPROVED BY OWNER.
13. COORDINATE CONSTRUCTION SCHEDULE WITH THE OWNER AND PROVIDE A PHASING PLAN/SCHEDULE FOR REVIEW. WORK WHICH MAY INTERRUPT BUSINESS OPERATIONS MUST BE RETURNED TO SERVICE EACH DAY PRIOR TO BUSINESS HOURS.

GENERAL NOTES

1. ALL WORK TO CONFORM TO REQUIREMENTS OF THE GOVERNING BUILDING CODE, OSHA AND ALL OTHER APPLICABLE CODES, RULES, REGULATIONS, ORDINANCES, ETC. IN THEIR LATEST EDITION. CONFORM ALL WORK TO REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
2. ALL WORK THAT IS IMPLIED OR REASONABLY INFERRED BY THE DRAWINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE INCLUSION OF ANY AND ALL WORK BY MENTION, NOTATION, DETAIL, ITEMIZATION OR IMPLICATION, HOWEVER BRIEF, MEANS THAT THE CONTRACTOR TO PROVIDE AND INSTALL SAME AT NO ADDITIONAL COST OR BURDEN TO THE OWNER. ALL WORK PERFORMED TO INCLUDE ALL APPURTENANCES AND APPARATUS NORMALLY DEEMED TO BE PART OF A COMPLETE PACKAGE WITHIN THE DEFINITIONS OF ORDINARY INDUSTRY STANDARDS. ALL TRADES ARE RESPONSIBLE FOR REVIEWING THE ENTIRE SET OF DRAWINGS THEREBY NOTING AND INCLUDING THEIR WORK AS APPLICABLE. THE INTENT OF THE DRAWING SET IS TO RESULT IN A COMPLETE AND FINISHED PROJECT IN ALL REGARDS AT THE CONCLUSION OF THE WORK. INCLUDE ALL WORK, WHETHER SHOWN OR NOT, AS MAY BE NECESSARY TO ACCOMPLISH THE INTENDED RESULT.
3. APPLY AND PAY FOR ALL PERMITS, INSPECTIONS, APPROVALS, ETC. ARRANGE AND COORDINATE ALL REQUIRED INSPECTIONS AND SECURE ALL NECESSARY APPROVALS OF THE WORK.
4. BECOME FAMILIAR WITH THE PROJECT THROUGH INSPECTION OF THE SITE AND REVIEW OF THE DRAWINGS SO AS TO THOROUGHLY UNDERSTAND THE NATURE AND REQUIREMENTS OF THE WORK. ANY AND ALL DISCREPANCIES OR OMISSIONS TO BE REPORTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY SUCH DISCREPANCY OR OMISSION. ENSURE THAT DISCREPANCIES OR OMISSIONS ARE REPORTED AND CLARIFICATION OBTAINED PRIOR TO WORK BEING PERFORMED. ANY AND ALL WORK PROCEEDING OTHERWISE AND THEN FOUND TO BE INCORRECT OR INCONSISTENT WITH THE INTENDED RESULT WILL BE REMOVED, REPLACED AND/OR CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST OR BURDEN TO THE OWNER. VERIFY ALL DIMENSIONS AND LOCATIONS IN THE FIELD. COORDINATE ALL WORK WITH CONDITIONS ENCOUNTERED IN THE FIELD AND MAKE ALL NECESSARY ADJUSTMENTS ACCORDINGLY.
5. CONTRACTOR IS RESPONSIBLE FOR FINAL FIT, FINISH, APPEARANCE AND PERFORMANCE OF ALL WORK.
6. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE WORK SITE PRIOR TO THE COMMENCEMENT OF WORK.
7. VERIFY EXISTING CONDITIONS AFFECTING THE WORK PRIOR TO BIDDING AND ALL ASPECTS OF THE WORK PRIOR TO COMMENCEMENT.
8. APPLY, INSTALL OR UTILIZE ALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S PRINTED LITERATURE.
9. ALL WORK TO BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER, MATCHING AND ALIGNING ALL SURFACES SO AS TO AFFORD A NEAT FINISHED APPEARANCE. CLEAN ALL SURFACES FREE OF SOIL, DIRT, REFUSE AND DEBRIS RESULTANT FROM THE WORK. ALL ADJACENT SURFACES TO BE LEFT AS THEY APPEARED PRIOR TO COMMENCEMENT OF THE WORK. PROVIDE ADEQUATE PROTECTION OF ALL ADJACENT AND EXISTING SURFACES TO REMAIN SUFFICIENT TO ENSURE AGAINST DAMAGE DURING CONSTRUCTION OPERATIONS. AT CONCLUSION OF THE WORK, ALL FINISHED EXPOSED SURFACES INCLUDING GLASS, ALUMINUM AND FINISHED HARDWARE TO BE THOROUGHLY CLEANED TO THE SATISFACTION OF THE OWNER.
10. ALL WORK TO BE PROPERLY AND ADEQUATELY PROTECTED FROM DAMAGE AT ALL TIMES REGARDLESS OF THE STAGE OF COMPLETION. TAKE RESPONSIBILITY FOR SAFETY AT ALL TIMES, IN ALL PLACES AND UNDER ALL CONDITIONS AFFECTING OR AFFECTED BY THE WORK. ADHERE TO ALL ACCEPTED SAFETY PRACTICES AND PROVIDE ALL FENCES, BARRICADES, GUARDRAILS, PARTITIONS, ETC. AS MAY BE NECESSARY IN ORDER TO PROTECT LIFE AND PROPERTY FROM INJURY OR DAMAGE AND AS MAY BE REQUIRED BY ANY AND ALL AUTHORITIES HAVING JURISDICTION. REPAIR ANY AND ALL DAMAGE TO THE PREMISES ARISING FROM OR ASSOCIATED WITH WORK SITE OPERATIONS AND/OR ACTIVITIES CONNECTED TO THE WORK.
11. LEAVE ALL CHASES, HOLES, OPENINGS, ETC. PLUMB LEVEL, TRUE AND OF A PROPER SIZE OR CUT SAME INTO EXISTING WORK AS MAY BE NECESSARY FOR PROPER INSTALLATION OF WORK. CONSULT, CONFER AND OTHERWISE COORDINATE WITH ANY AND ALL OTHER CONTRACTORS AND CONCERNED PARTIES REGARDING PROPER LOCATION, SIZE, PLACEMENT, ALIGNMENT AND ORIENTATION OF SAME. IN CASE OF ANY FAILURE TO LEAVE OR CUT SUCH OPENINGS OR OTHERWISE LEAVE SUCH ACCOMMODATIONS IN PROPER PLACE, CUT THEM AFTERWARDS AT OWN EXPENSE. NO EXCESSIVE CUTTING WILL BE PERMITTED NOR ANY STRUCTURAL MEMBERS TO BE CUT WITHOUT THE CONSENT OF THE ARCHITECT.
12. ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL LABOR, EQUIPMENT AND MATERIAL TO BE GUARANTEED AS PER PROJECT SPECIFICATIONS.
13. COMPLY WITH ALL OWNER SAFETY TRAINING REQUIREMENTS AND SITE PROCEDURES, AND COORDINATE THE FOREGOING WITH OWNER'S DESIGNATED REPRESENTATIVES.
14. PERFORM ALL WORK WITHOUT INTERFERING WITH OWNER'S NORMAL OPERATIONS.
15. PROJECT DOCUMENTS ARE INTENDED TO BE COMPLEMENTARY. ITEMS INDICATED IN ONE PLACE OR ANOTHER AMONG THE DOCUMENTS ARE INTENDED AS THOUGH SHOWN IN ALL PLACES.
16. COORDINATE ALL NEW WORK WITH ALL EXISTING CONDITIONS. EXISTING ELEMENTS AFFECTING THE WORK REQUIRE SUCH COORDINATION WHETHER OR NOT THEY ARE INDICATED IN THE DOCUMENTS
17. DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES.
18. ALL WORK IS GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

MATERIALS LEGEND

- BRICK
- CONCRETE MASONRY UNITS
- ACOUSTICAL CMU
- CMIU
- STRUCTURAL GLAZED FACING TILE/ GLAZED CMU
- CONCRETE
- GYPSUM BOARD / GROUT
- BATT INSULATION
- RIGID INSULATION
- COARSE AGGREGATE / BALLAST
- STEEL
- ALUMINUM
- FINISH LUMBER
- DIMENSIONAL LUMBER
- SHIM
- PLYWOOD
- TILE / ACOUSTIC PANEL
- EARTH / SOIL

SYMBOLS LEGEND

- 1 / A101 — EXTERIOR ELEVATION REFERENCE: ELEVATION REFERENCE; DRAWING ON WHICH ELEVATION APPEARS
- 1 / A101 — BUILDING SECTION REFERENCE: SECTION REFERENCE; DRAWING ON WHICH SECTION APPEARS
- 1 / A101 — WALL SECTION REFERENCE: SECTION REFERENCE; DRAWING ON WHICH SECTION APPEARS
- 8 / M888 / SIM — DETAIL REFERENCE: DETAIL REFERENCE; DRAWING ON WHICH DETAIL APPEARS
- 1 / A101 — INTERIOR ELEVATION REFERENCE: ELEVATION REFERENCE; DRAWING ON WHICH DETAIL APPEARS
- ROOM / 101A — ROOM IDENTIFICATION REFERENCE: ROOM NAME; ROOM NUMBER
- 101A — DOOR NUMBER REFERENCE
- L-2 — LINTEL TYPE REFERENCE
- A — STRUCTURAL COLUMN REFERENCE
- 1 — TOILET ACCESSORY REFERENCE
- 1 — WALL PARTITION REFERENCE
- W1 — WINDOW TYPE REFERENCE
- L1 — LOUVER TYPE REFERENCE
- R1 — ROOM SIGN REFERENCE
- 1 — REVISION REFERENCE
- 1 — SHEET NOTE REFERENCE
- NORTH ARROW REFERENCE: MAGNETIC NORTH; BUILDING NORTH
- TYPE A / 10'-0" — CEILING SYSTEM REFERENCE: CEILING TYPE; HEIGHT OF CEILING ABOVE FLOOR

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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
TY	EVH	JS

DATE: 02/03/23

DRAWING TITLE: ARCHITECTURAL GENERAL NOTES, SYMBOLS, LEGENDS & ABBREVIATIONS

DRAWING NO.: A001

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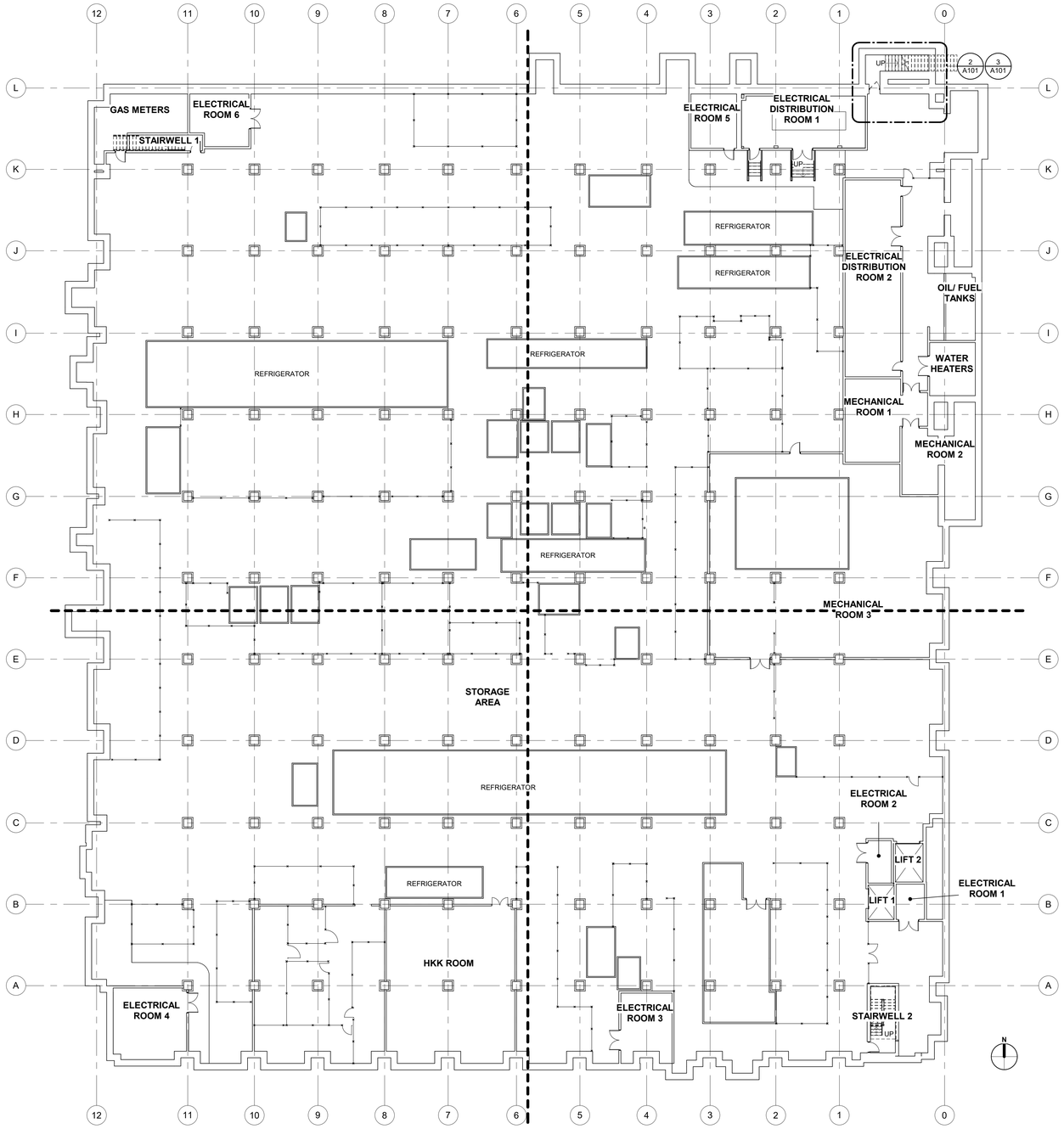
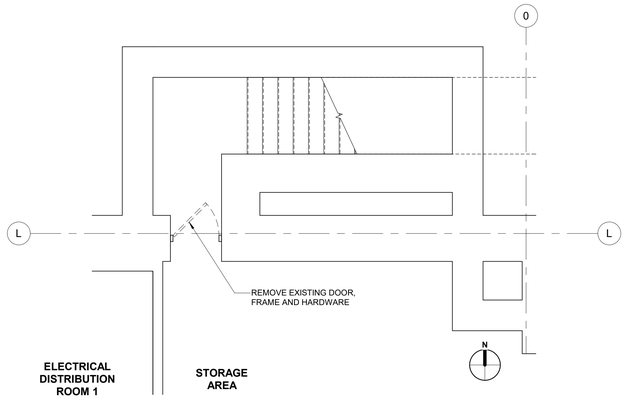
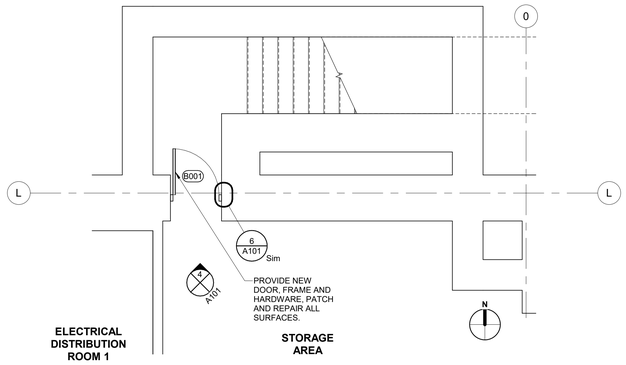
Project Number: 071274
2/3/2023 2:33:15 PM



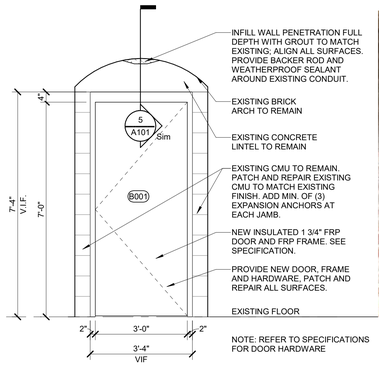
1 BASEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"



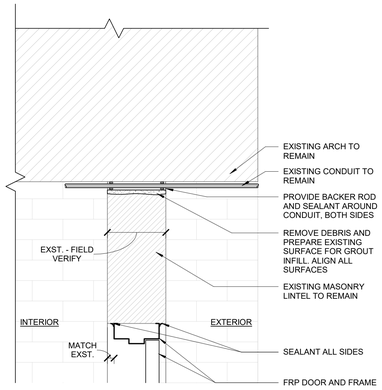
2 PARTIAL BASEMENT FLOOR PLAN - DOOR DEMOLITION
SCALE: 1/4" = 1'-0"



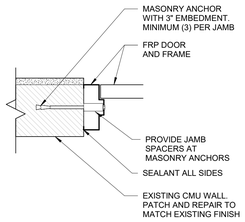
3 PARTIAL BASEMENT FLOOR PLAN - NEW DOOR
SCALE: 1/4" = 1'-0"



4 BASEMENT DOOR ELEVATION
SCALE: 1/2" = 1'-0"



5 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



6 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

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GENERAL PACKAGE

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DRAWING TITLE: ARCHITECTURAL FLOOR PLAN & DETAILS

DRAWING NO.: A101

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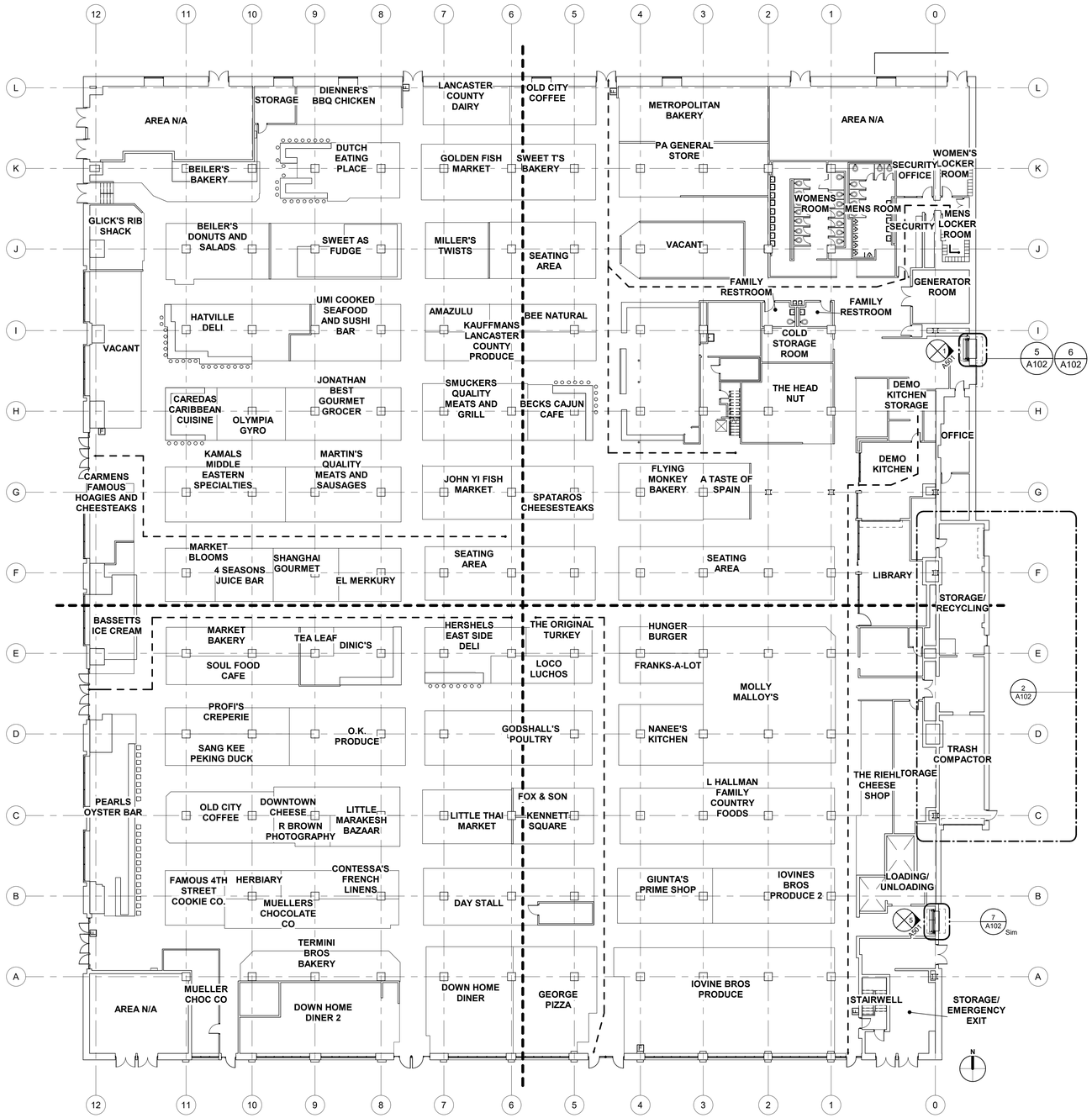
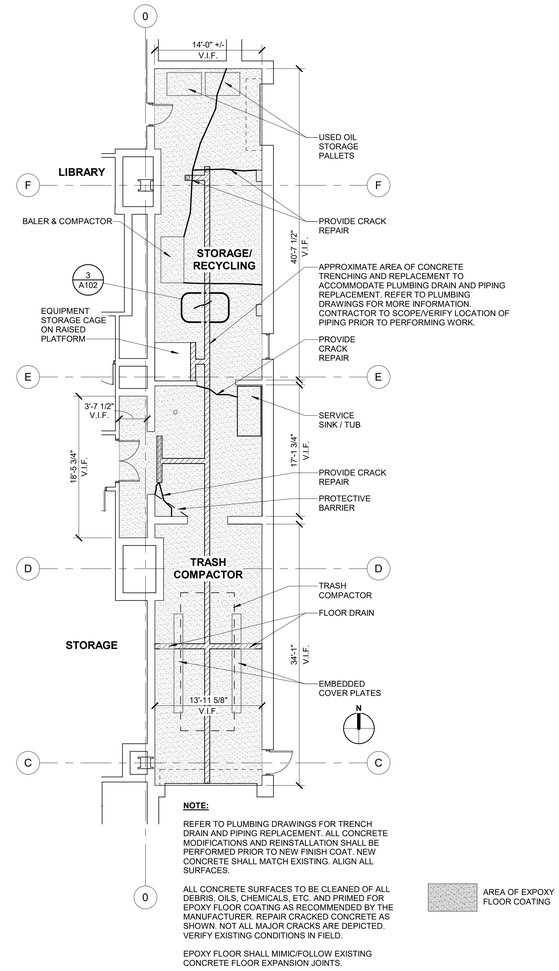


1 GROUND FLOOR PLAN
SCALE: 1/16" = 1'-0"



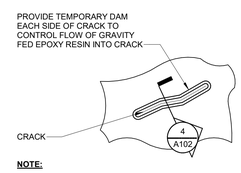
NOTE:

REFER TO PLUMBING DRAWINGS FOR TRENCH DRAIN AND PIPING REPLACEMENT. ALL CONCRETE MODIFICATIONS AND REINSTALLATION SHALL BE PERFORMED PRIOR TO NEW FINISH COAT. NEW CONCRETE SHALL MATCH EXISTING. ALIGN ALL SURFACES.

ALL CONCRETE SURFACES TO BE CLEANED OF ALL DEBRIS, OILS, CHEMICALS, ETC. AND PRIMED FOR EPOXY FLOOR COATING AS RECOMMENDED BY THE MANUFACTURER. REPAIR CRACKED CONCRETE AS SHOWN. NOT ALL MAJOR CRACKS ARE DEPICTED. VERIFY EXISTING CONDITIONS IN FIELD.

EPOXY FLOOR SHALL MIMIC/FOLLOW EXISTING CONCRETE FLOOR EXPANSION JOINTS.

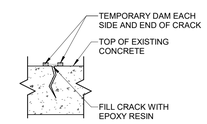
2 PARTIAL GROUND FLOOR PLAN - EPOXY FLOOR AREA
SCALE: 1/8" = 1'-0"



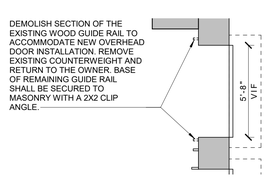
NOTE:

1. FOR CRACKS UP TO 1/8" WIDE
2. CLEAN FLOOR PRIOR TO NEW FLOOR FINISH INSTALLATION
3. MAKE CRACK REPAIRS PER FLOORING FINISH MFR RECOMMENDATION

3 CONCRETE CRACK REPAIR DETAIL
SCALE: NTS

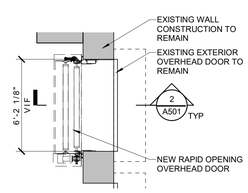


4 CRACK REPAIR DETAIL
SCALE: 1/2" = 1'-0"



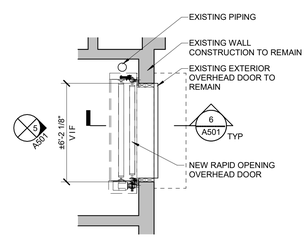
5 OVERHEAD DOOR 01 ENLARGED DEMO PLAN
SCALE: 1/4" = 1'-0"

NOTE: REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES IN THE AREA OF WORK TO BE REMOVED OR RELOCATED.



6 OVERHEAD DOOR 01 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

NOTE: REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES IN THE AREA OF WORK TO BE REMOVED OR RELOCATED.



7 OVERHEAD DOOR 02 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

NOTE: REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES IN THE AREA OF WORK TO BE REMOVED OR RELOCATED.

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DRAWING TITLE: ARCHITECTURAL FLOOR PLAN & DETAILS

DRAWING NO.: A102

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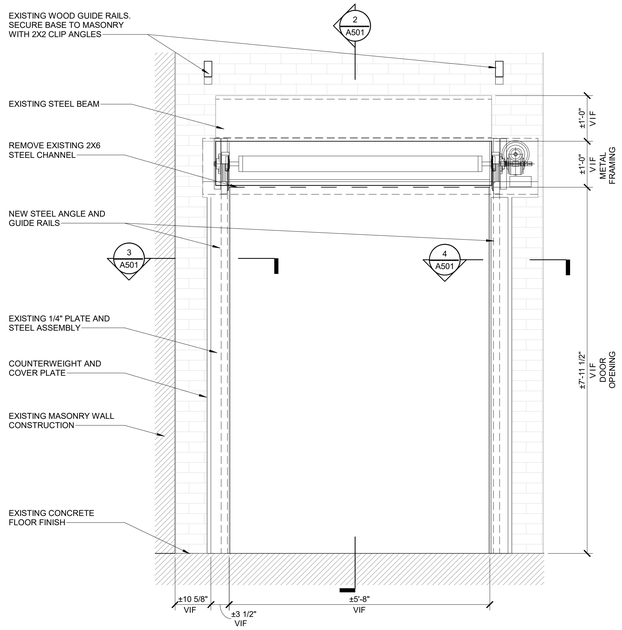
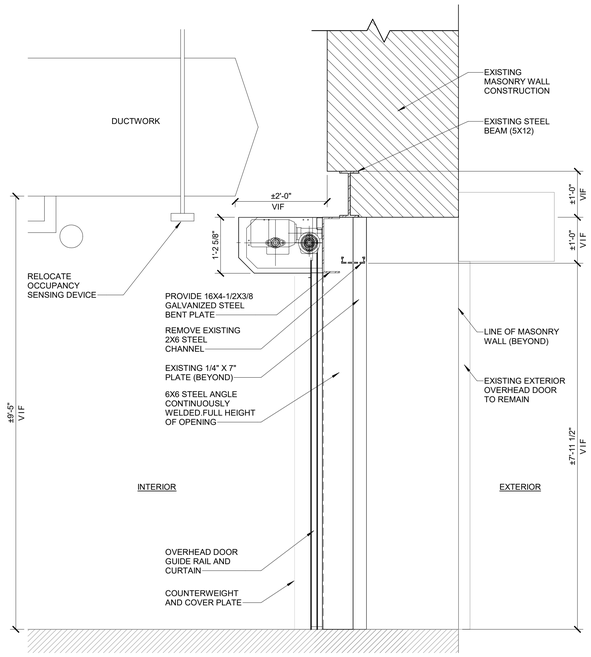
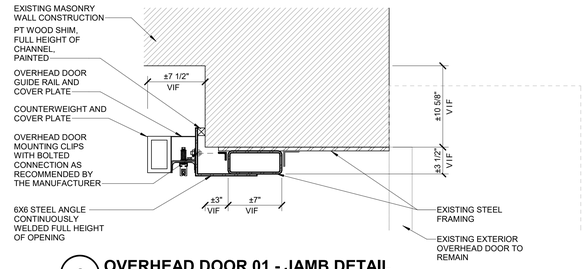


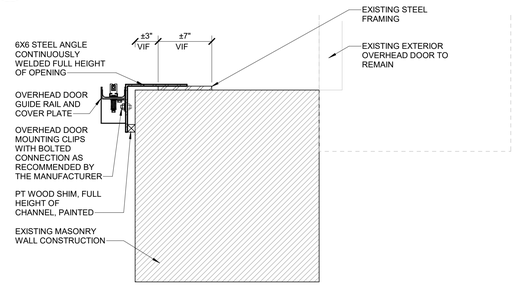
1 **OVERHEAD DOOR 01 - ELEVATION**
SCALE: 3/4" = 1'-0"



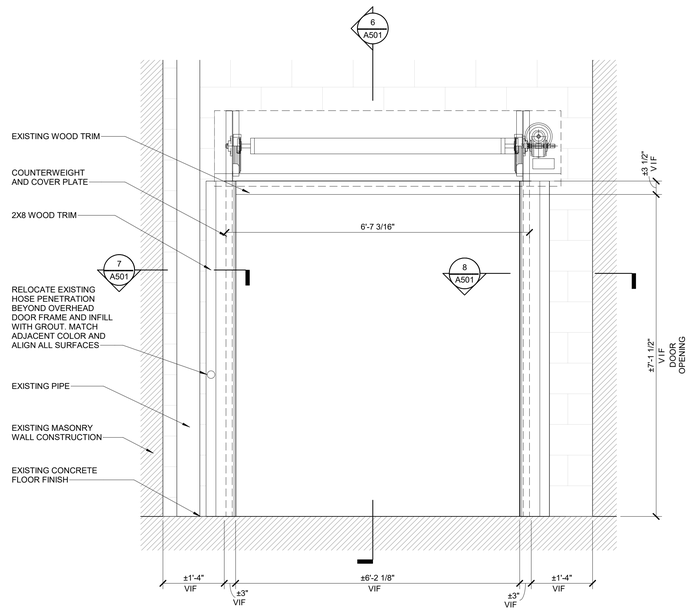
2 **OVERHEAD DOOR 01 - SECTION**
SCALE: 3/4" = 1'-0"



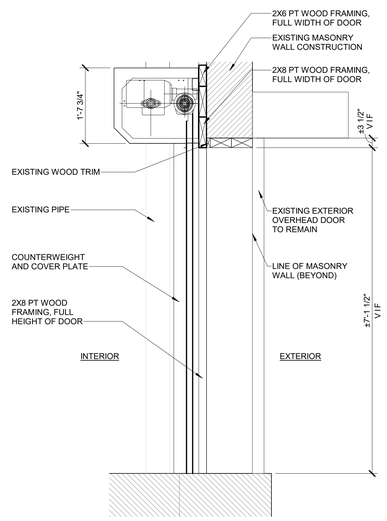
3 **OVERHEAD DOOR 01 - JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



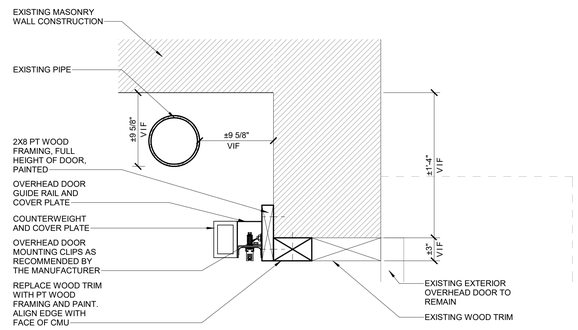
4 **OVERHEAD DOOR 01 - JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



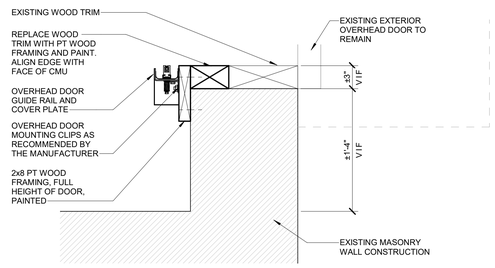
5 **OVERHEAD DOOR 02 - ELEVATION**
SCALE: 3/4" = 1'-0"



6 **OVERHEAD DOOR 02 - SECTION**
SCALE: 3/4" = 1'-0"



7 **OVERHEAD DOOR 02 - JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



8 **OVERHEAD DOOR 02 - JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"

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NO.	DATE	DESCRIPTION

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GENERAL PACKAGE

PROJECT NUMBER: 071274

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TY	BB	JS

DATE: 02/03/23

DRAWING TITLE: ARCHITECTURAL

OVERHEAD DOOR DETAILS

DRAWING NO.: A501

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Project Number: 071274
2/3/2023 2:33:19 PM

LINES & REFERENCE SYMBOLS

- NEW WORK LINEWEIGHT
- DEMOLITION WORK LINEWEIGHT
- AREA OF DEMOLITION
- EXISTING WORK LINEWEIGHT
- FUTURE WORK LINEWEIGHT
- POINT OF CONNECTION
- TERMINATION POINT OF DEMOLITION
- POINT OF FUTURE CONNECTION
- # — SHEET NOTE REFERENCE
- # — REVISION REFERENCE
- E-1 — EQUIPMENT TAG
- NORTH ARROW

CD-1 / 8" / 150 — NECK; CD-1 / 150 — CD-1-150 — TYPE; DIFFUSER, REGISTER, OR GRILLE DESIGNATION AND AIRFLOW TAG(S); CFM

VAV-1 / 8" / 150 — DESIGNATION; DUCT INLET/PIPE SIZE; CFM/GPM — VAV/AIR VALVE TAG

1 VIEW TITLE — SCALE: — INDICATES PLAN/DETAIL NUMBER; PLAN/DETAIL TITLE; SCALE (AS REQUIRED)

1 / M301 — INDICATES PLAN/DETAIL NUMBER; INDICATES DRAWING ON WHICH DRAWING SECTION APPEARS

PIPING

SYMBOL	DESCRIPTION
	PIPING TURNING UP
	PIPING TURNING DOWN
	TEE DOWN
	PIPE BRANCH BOTTOM TAKEOFF
	PIPE BRANCH TOP TAKEOFF
	VALVE IN VERTICAL PIPE
	CAP
	FLOW DIRECTION
R/D	PIPE SLOPE RISE/DROP
	PIPE RISER UP/DOWN
	CONCENTRIC REDUCER/INCREASER
	ECCENTRIC REDUCER/INCREASER (FOB)
	UNION
	PIPE CONTINUATION
W H	EXPANSION LOOP (WxH)
	PIPE ANCHOR
	FLEXIBLE PIPE CONNECTOR
EJ	EXPANSION JOINT
	PIPE GUIDE
	STEAM TRAP
	BLIND FLANGE
T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE TRANSDUCER
FS	FLOW SWITCH
FM	FLOW METER
	VENTURI FLOW METER
	PUMP

DUCTWORK

SYMBOL DOUBLE LINE	DESCRIPTION
20x12	DUCTWORK, SIZE AS INDICATED
20x12	DUCTWORK, WITH SOUNDLINING
	VANED ELBOW
	UN-VANED ELBOW
	RADIUS ELBOW
	VANED TEE
	UN-VANED TEE
	SUPPLY DUCT TURNING UP AND DOWN
	RETURN DUCT TURNING UP AND DOWN
	EXHAUST/RELIEF DUCT TURNING UP AND DOWN
R/D	DUCT RISE/DROP IN AIRFLOW DIRECTION
	DUCT TRANSITION, SQUARE TO SQUARE
	DUCT TRANSITION, SQUARE TO ROUND
	DUCT CAPPED
	45 DEGREE TAP
	CONICAL TAP
	SPUN-IN RUNOUT FITTING W/ FLEX. & VD
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
BOD	BACKDRAFT DAMPER
MD	MOTORIZED DAMPER
BD	BAROMETRIC DAMPER
	DUCT CONTINUATION
	SUPPLY AIR FLOW DIRECTION
OA	OUTSIDE AIR FLOW DIRECTION
	RETURN/EXHAUST AIR FLOW DIRECTION
	RETURN, EXHAUST GRILLE OR REGISTER
	SUPPLY AIR DIFFUSER, 4-WAY BLOW
	SUPPLY AIR DIFFUSER, 3-WAY BLOW
	SUPPLY AIR DIFFUSER, 2-WAY BLOW
	SUPPLY AIR DIFFUSER, 1-WAY BLOW
	LINEAR SLOT DIFFUSER
UC	UNDERCUT DOOR
DL 12x12	DOOR LOUVER
AD	DUCT ACCESS DOOR
T , T	THERMOSTAT, MASTER THERMOSTAT
TS	TEMPERATURE SENSOR
H	HUMIDISTAT
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
H	DUCT SMOKE DETECTOR
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
NOx	NITROGEN OXIDES SENSOR
SOx	SULFUR OXIDES SENSOR
	GAS CONCENTRATION MONITOR
SP	STATIC PRESSURE SENSOR
AFMS	AIR FLOW MEASURING STATION
S	SWITCH OR TOGGLE SWITCH
TM	MANUAL TIMER SWITCH
HOA	HAND/OFF/AUTO SWITCH
1 2	STATIC PRESSURE CLASSIFICATION DESIGNATION (IN. W.G.)

MECH VALVES

SYMBOL	THREE LINE PLAN	THREE LINE ELEVATION	DESCRIPTION
			GEN. SHUTOFF VALVE (BALL, GATE, BUTTERFLY)
			GATE VALVE
			GLOBE VALVE
			OUTSIDE STEM & YOKE VALVE
			BALL VALVE
			BUTTERFLY VALVE
			CHECK VALVE
			GAS COCK
			PRESSURE REDUCING VALVE
			CALIBRATED BALANCING VALVE
			CONTROL VALVE, TWO-WAY (ELECTRIC)
			CONTROL VALVE, THREE-WAY (ELECTRIC)
			THREE-WAY MANUAL VALVE
			CONTROL VALVE, TWO-WAY (PNEUMATIC)
			SOLENOID VALVE
			RELIEF/SAFETY VALVE
			STRAINER
			STRAINER WITH DRAIN VALVE AND CAP
			PRESSURE GAUGE WITH COCK
			THERMOMETER
			CONTROL VALVE, THREE-WAY (PNEUMATIC)
			FUSOMATIC GATE VALVE
AAV			AUTOMATIC AIR VENT (EXTEND TO DRAIN)
MAV			MANUAL AIR VENT
			PRESSURE/TEMPERATURE TEST PORT
			AQUASTAT
			NORMALLY CLOSED PORT (NC)

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NO.	DATE	DESCRIPTION

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DATE: 02/03/23

DRAWING TITLE: MECHANICAL LEGEND

DRAWING NO.: M001

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Project Number: 071274
2/3/2023 7:59:12 AM

ABBREVIATIONS

@	AT
A	AIR
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AD	AREA DRAIN, ACCESS DOOR, AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUST, ADJUSTABLE
AF	ANTI-FREEZE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
AST	ABOVEGROUND STORAGE TANK
ATV	ATMOSPHERIC VENT
AVG	AVERAGE
BA	BREATHABLE AIR
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLW	BELOW
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BASIS OF DESIGN
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	COMMON
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLDIP	CEMENT-LINED DUCTILE IRON S PIPE
CLNG	CEILING
CNG	COMPRESSED NATURAL GAS
CO	CLEANOUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CONTD	CONTINUED
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CV	CLEANING VACUUM, CHECK VALVE
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
Cx	COMMISSIONING
CxA	COMMISSIONING AUTHORITY
(D)	DEMOLISH, REMOVE
D	DRAIN, DEPTH
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEG, °	DEGREES
DEH	DEHUMIDIFIER
DEPT	DEPARTMENT
DESG	DESIGNATION
DFU	DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DIFF	DIFFERENTIAL, DIFFERENCE
DISC	DISCONNECT
DN	DOWN
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
DTWR	HOT/CHILLED WATER RETURN (DUAL TEMP.)
DTWS	HOT/CHILLED WATER SUPPLY (DUAL TEMP.)
DWG	DRAWING
(ER)	EXISTING RELOCATED
(EX)	EXISTING TO REMAIN
EA	EACH
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EQ	EQUAL
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
(F)	FUTURE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDR	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FUEL GAS
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FM	FLOW METER
FO	FUEL OIL
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOW SWITCH
FT HD	FEET OF HEAD
FT, '	FOOT, FEET
FZ	FREEZE, FREEZSTAT
°F	DEGREES FAHRENHEIT
G	GAS
GA	GAUGE
GAL	GALLON, GALLONS
GALV	GALVANIZED
GCO	GRADE CLEANOUT
GEN	GENERATOR
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
GWR	GLYCOL WATER SUPPLY
GWS	GLYCOL WATER RETURN
H	HEIGHT
H2O	WATER
HB	HOSE BIB
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HTG	HEATING
HUH	HYDRONIC UNIT HEATER
HUM	HUMIDIFIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ (CYCLES PER SECOND)
ID	INSIDE DIAMETER
IN WG	INCHES OF WATER GAUGE
IN, "	INCH, INCHES
INFO	INFORMATION
INFO	INFORMATION
INT	INTERIOR
INT	INTERIOR
INV EL	INVERT ELEVATION
ISOL	ISOLATION
IW	INDUSTRIAL WASTE, INDIRECT WASTE
KW	KILOWATTS
L	LENGTH, LONG
LAV	LAVATORY
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LDR	LEADER
LP	LIQUID PROPANE
LPCR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LRA	LOAD RATED AMPS
LWT	LEAVING WATER TEMPERATURE
M	METER
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MOTOR OIL
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MPS	MEDIUM PRESSURE STEAM
MTD	MOUNTED
MTG	MOUNTING
MUW	MAKE UP WATER
MV	MEDICAL VACUUM
N	NITROGEN
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED, NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPENED
No	NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O/2, O2	OXYGEN
OC	ON CENTER
OFD	OVERFLOW DRAIN
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE VALVE
OSD	OPEN SITE DRAIN
OVH	OVERHEAD
OWS	OIL WATER SEPARATOR
%	PERCENT
P	PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PH	PHASE
PIW	PUMPED INDUSTRIAL WASTE
PLBG	PLUMBING
PNEU	PNEUMATIC
POS	POSITION
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSC	PUMPED STEAM CONDENSATE RETURN
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
(RL)	RELOCATED POSITION
R	RISE
RD	ROOF DRAIN, REFRIGERANT DISCHARGE
REF	REFRIGERANT
REQ'D	REQUIRED
RL	REFRIGERANT LIQUID
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE BFP
RS	REFRIGERANT SUCTION
RWC	RAIN WATER CONDUCTOR
S	SWITCH
S/S	START/STOP
SAN	SANITARY
SC	STEAM CONDENSATE RETURN
SF	SUPPLY FAN, SQUARE FEET
SK	SINK
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FOOT, SQUARE FEET
SS	STAINLESS STEEL
ST	STORM WATER PIPING
STD	STANDARD
STL	STEEL
STM	STEAM
TEMP	TEMPERATURE, TEMPORARY
TP	TRAP PRIMER
TW	TEPID WATER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VENT
VCO	VERTICAL CLEAN OUT
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WIDTH, WIDE
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WFU	WATER SUPPLY FIXTURE UNITS
WG	WATER GAUGE
WH	WATER HEATER, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WT	WEIGHT
ZN	ZONE

GENERAL NOTES

1. NOT ALL ABBREVIATIONS, LINE TYPES, OR SYMBOLS MAY APPEAR ON THESE CONTRACT DOCUMENTS.
2. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, DIMENSIONS SHALL BE CONFIRMED IN THE FIELD.
3. THE CONTRACTOR SHALL COMPLY WITH THE LAWS, ORDINANCES, RULES AND REGULATIONS OF LOCAL AND STATE GOVERNMENTAL AUTHORITIES; OF THE NATIONAL FIRE PROTECTION ASSOCIATION AS INTERPRETED BY THE ENFORCING AUTHORITY HAVING JURISDICTION; AND OF PUBLIC UTILITIES HAVING CONNECTION WITH ANY OF THE SYSTEMS HEREIN SPECIFIED.
4. INSTALL EQUIPMENT IN A SERVICEABLE MANNER WITHOUT DISRUPTION TO ADJACENT SERVICES OR DAMAGING INSULATION.
5. PROVIDE ALL NEW AND REUSED WALL PENETRATIONS WITH A SLEEVE/CONDUIT FOR SERVICES PENETRATING IT. THIS INCLUDES, BUT IS NOT LIMITED TO: DUCTWORK, PIPING, POWER, AND CONTROL WIRING.
6. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES, AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK. CERTIFICATES SHALL BE IN DUPLICATE AND SHALL BE DELIVERED TO THE OWNER.
7. THE SITE, LOCATION, AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS PERMIT. CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY CONDITIONS WHICH MIGHT MAKE INSTALLATION OF REQUIRED EQUIPMENT A PROBLEM. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE CONDITIONS OR MISUNDERSTANDINGS OF THE CONTRACTUAL REQUIREMENTS.
8. THE CONTRACTOR SHALL INSTALL AND CONNECT EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION REQUIREMENTS AND RECOMMENDATIONS, AND FURNISH AND INSTALL REQUIRED AUXILIARY ITEMS TO PROVIDE A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL REPAIR WALLS, CEILING, FLOORS, ETC., THAT ARE REQUIRED TO BE PENETRATED, OR OTHERWISE DISTURBED. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES TO MATCH EXISTING. FIRE WALL PENETRATIONS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIRE WALL INTEGRITY.
10. THE CONTRACTOR SHALL REMOVE EQUIPMENT NOT INDICATED TO BE REUSED TO A DESIGNATED LOCATION AT THE PROJECT SITE. AFTER THE EQUIPMENT HAS BEEN ASSEMBLED FOR THE OWNER'S INSPECTION AND POSSIBLE RETENTION, ALL EQUIPMENT NOT TO BE RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
11. COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL, PLUMBING, ETC. PROVIDE NECESSARY OFFSETS IN PIPING, DUCTWORK AND FITTINGS ETC., REQUIRED TO PROPERLY INSTALL WORK WITHOUT INTERFERENCES.
12. BUILDING SYSTEMS SHALL REMAIN IN SERVICE UNLESS INDICATED OTHERWISE. OUTAGES OR INTERRUPTIONS SHALL BE KEPT TO A MINIMUM DURATION. NOTIFY THE OWNER 48 HOURS IN ADVANCE OF ANY OUTAGE OR INTERRUPTION. IF TEMPORARY CONNECTIONS ARE NECESSARY TO ASSURE THIS CONTINUITY OF SERVICES, THEY SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER AND SHALL BE REMOVED WHEN NO LONGER NEEDED.
13. THE CONTRACTOR SHALL ARRANGE AND EXECUTE HIS WORK SUCH THAT ANY CONNECTIONS, BOTH TEMPORARY OR PERMANENT, TO, OR REARRANGEMENT OF, PRESENT EQUIPMENT, PIPING, ETC., SHALL BE MADE IN SUCH A MANNER AS TO ASSURE FULL RESUMPTION OF SERVICE AT THE TIME DESIGNATED BY THE OWNER.
14. THE CONTRACTOR SHALL LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. FURNISH ACCESS DOORS AS REQUIRED FOR BETTER ACCESSIBILITY. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR ACCESSIBILITY, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COSTS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL.
15. ALL DIMENSIONS FOR EXISTING PIPING AND DUCTWORK SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION, WHERE NEW WORK CONNECTIONS ARE INDICATED. NEW DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
16. OPENINGS REMAINING IN EXISTING PIPING/DUCTWORK AS A RESULT OF DEMOLITION SHALL BE SEALED WITH AN AIRTIGHT/WATERTIGHT SHEET METAL CAP. WHERE EXISTING SYSTEMS ARE INSULATED, WORK SHALL INCLUDE REPAIR AND REPLACEMENT OF INSULATION EITHER DAMAGED OR REMOVED AS A RESULT OF DEMOLITION.
17. PIPING SCOPE REQUIREMENTS: HORIZONTAL CONDENSATE DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE MINIMUM SLOPE OF HORIZONTAL DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4

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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
SAJ	SAJ	BMW

DATE: 02/03/23

DRAWING TITLE: MECHANICAL
GENERAL NOTES AND ABBREVIATIONS

DRAWING NO.: M002

Local File:Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt
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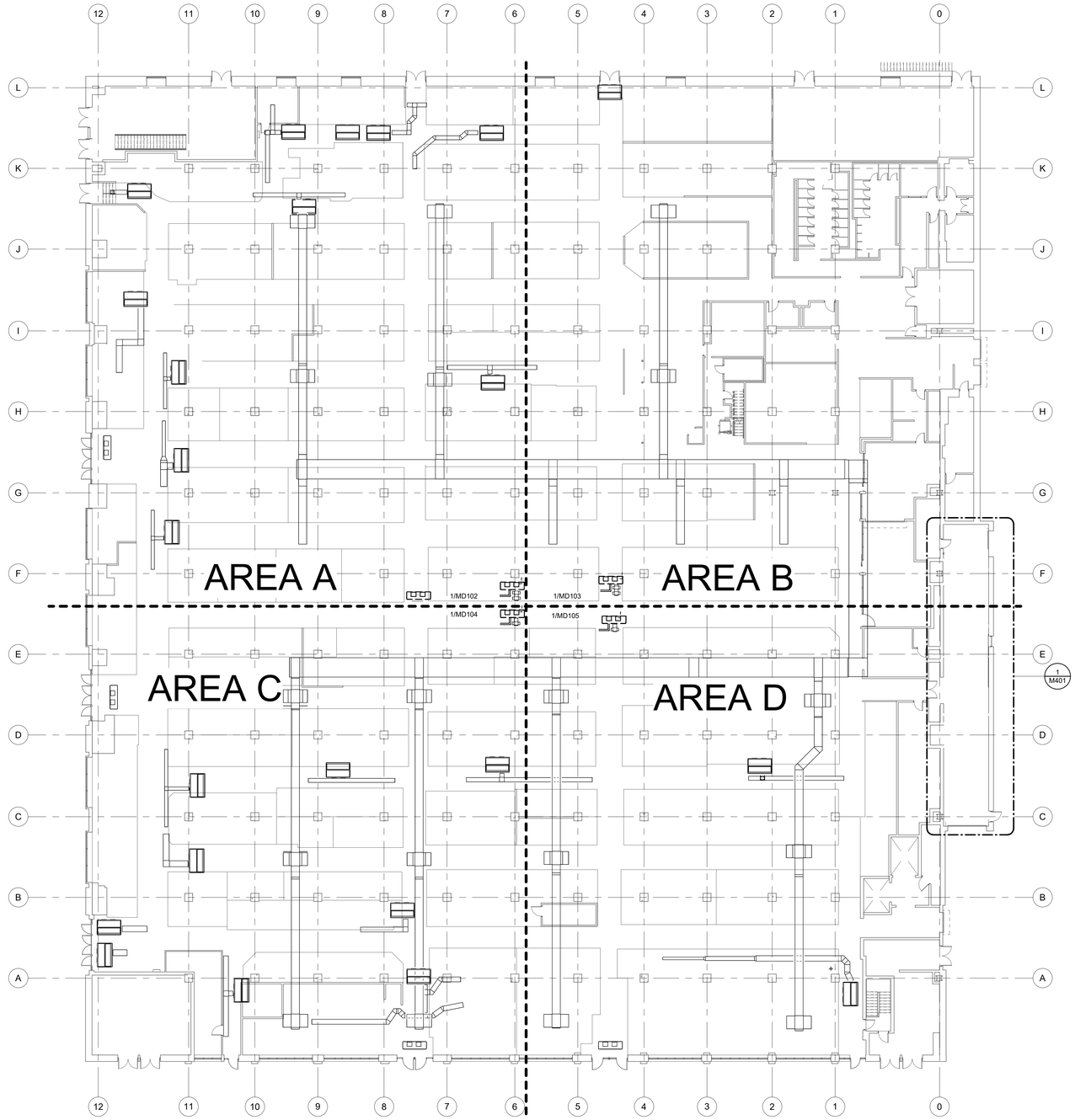

1 MECHANICAL DEMOLITION GROUND FLOOR OVERALL PLAN

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

SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

0' 16' 32'

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

KEY PLAN

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PROJECT NUMBER: 071274

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DATE: 02/03/23

DRAWING TITLE: MECHANICAL DEMOLITION GROUND FLOOR OVERALL PLAN

DRAWING NO.: MD101

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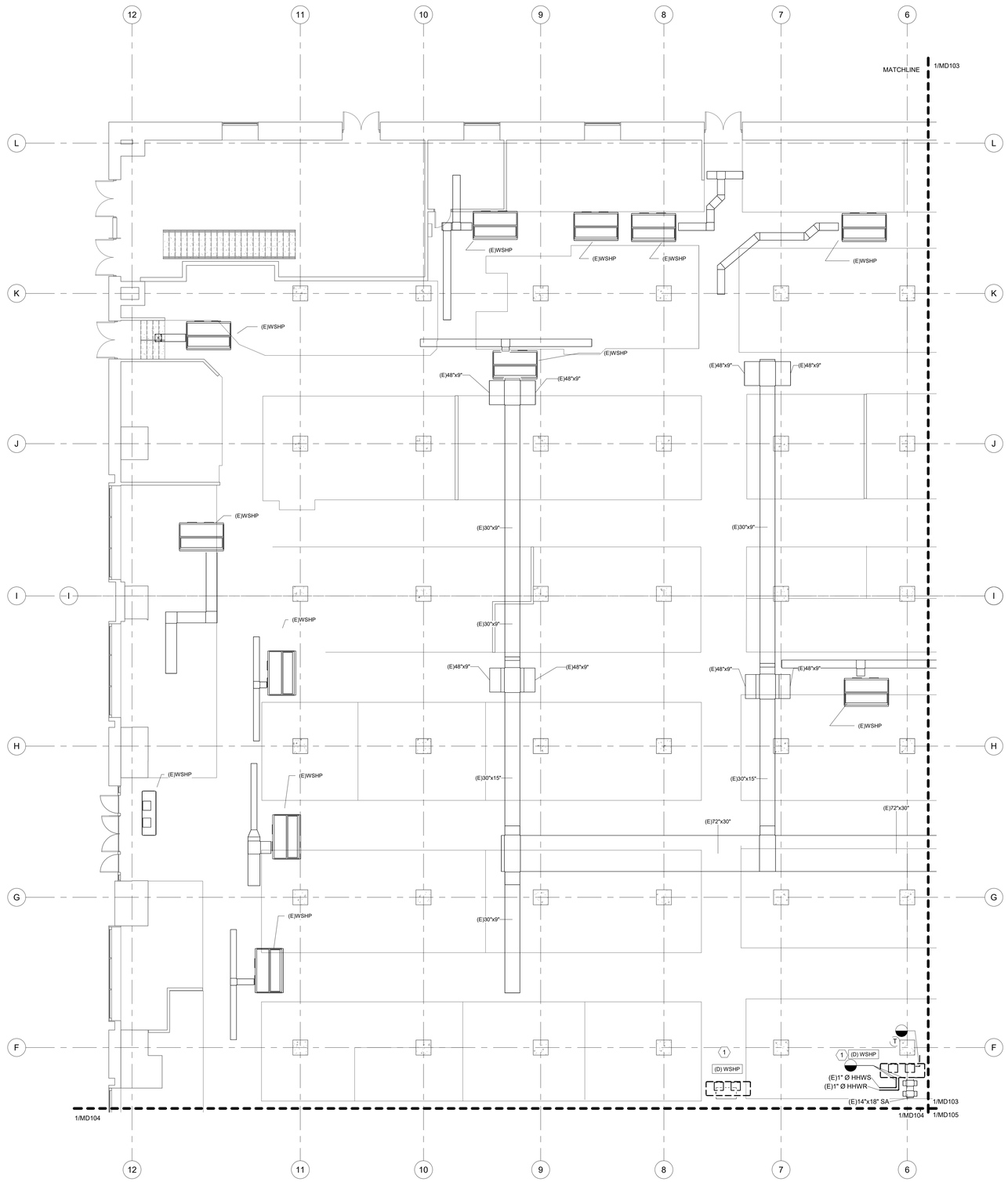


1 MECHANICAL DEMOLITION GROUND FLOOR PLAN - AREA A

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

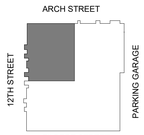
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. REMOVE EXISTING WATER SOURCE HEAT PUMP AND ASSOCIATED SUPPORTS AND ELECTRICAL CONNECTIONS. DISCONNECT SUPPLY AIR DUCTWORK, HEATING HOT WATER SUPPLY AND RETURN PIPING, AND CONDENSATE DRAIN PIPING. CAP CONDENSER WATER PIPING FOR REUSE. CLEAN AIR INTAKE AND SUPPLY FOR REUSE. DISCONNECT AND REMOVE ASSOCIATED THERMOSTAT.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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DRAWING TITLE: MECHANICAL
DEMOLITION GROUND FLOOR PLAN - AREA A

DRAWING NO.: MD102

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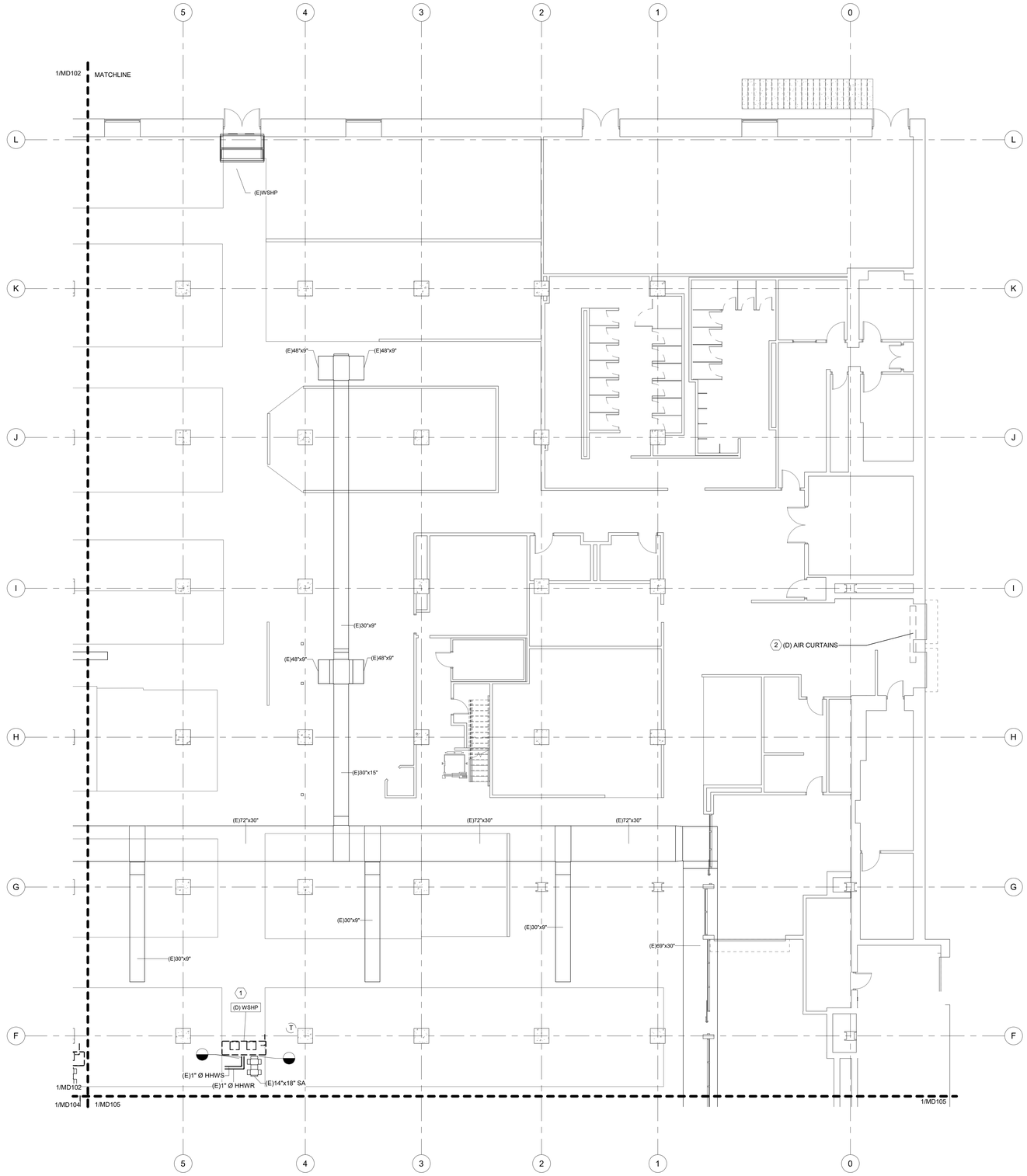


1 MECHANICAL DEMOLITION GROUND FLOOR PLAN - AREA B

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

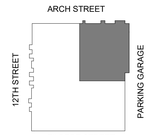
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

DEMOLITION KEYNOTES

1. REMOVE EXISTING WATER SOURCE HEAT PUMP AND ASSOCIATED SUPPORTS AND ELECTRICAL CONNECTIONS. DISCONNECT SUPPLY AIR DUCTWORK, HEATING HOT WATER SUPPLY AND RETURN PIPING, AND CONDENSATE DRAIN PIPING. CAP CONDENSER WATER PIPING FOR REUSE. CLEAN AIR INTAKE AND SUPPLY FOR REUSE. DISCONNECT AND REMOVE ASSOCIATED THERMOSTAT.
2. DISCONNECT POWER TO EXISTING AIR CURTAIN. REMOVE AIR CURTAIN AND RETURN TO OWNER.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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PROJECT NUMBER: 071274

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DATE: 02/03/23

DRAWING TITLE: MECHANICAL

DEMOLITION GROUND FLOOR PLAN - AREA B

DRAWING NO.: MD103

Local File:Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

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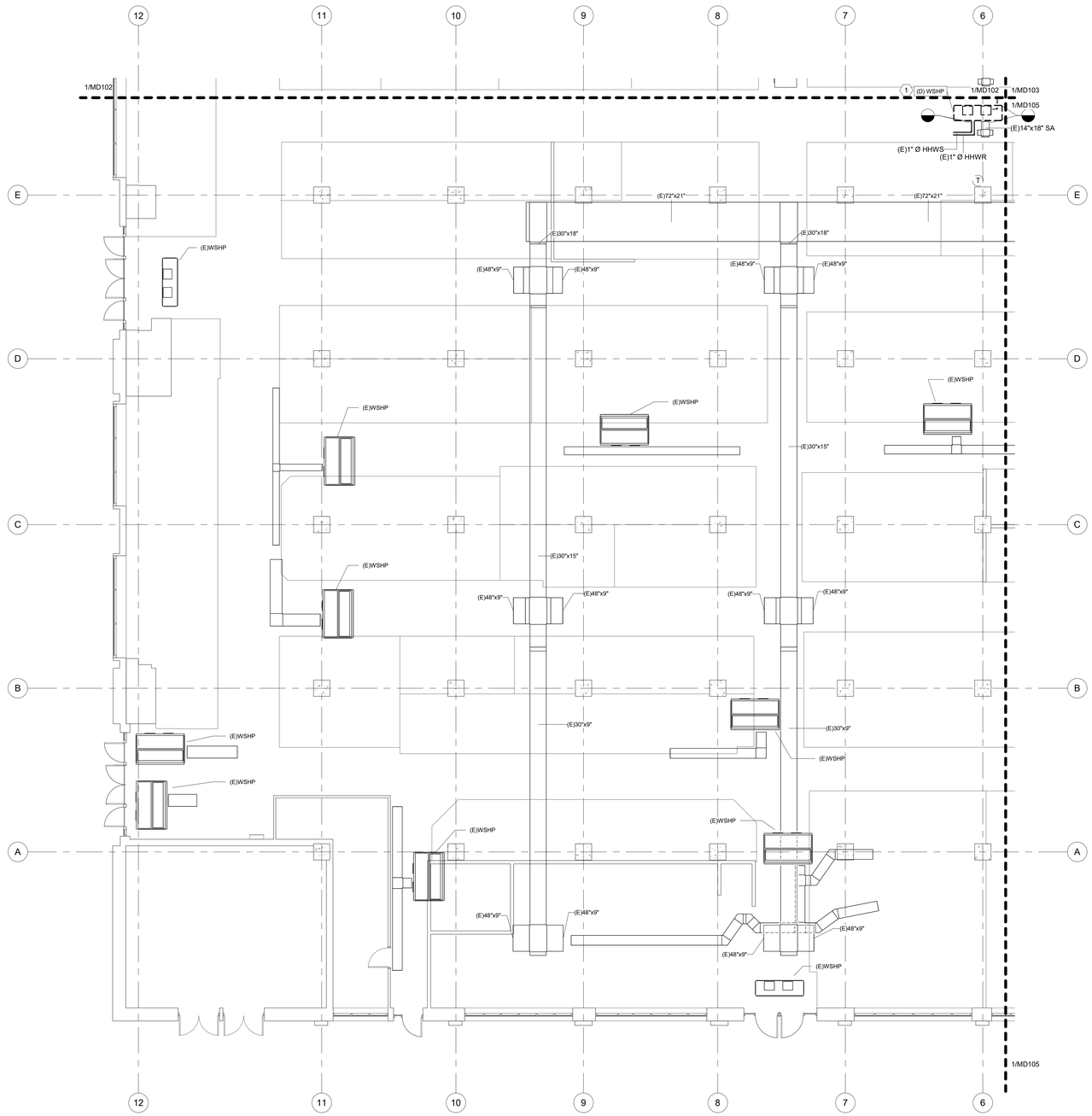


1 MECHANICAL DEMOLITION FLOOR PLAN - AREA C

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

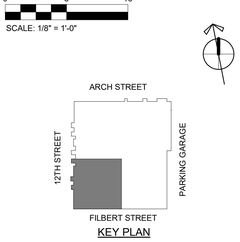
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

DEMOLITION KEYNOTES

1. REMOVE EXISTING WATER SOURCE HEAT PUMP AND ASSOCIATED SUPPORTS AND ELECTRICAL CONNECTIONS. DISCONNECT SUPPLY AIR DUCTWORK, HEATING HOT WATER SUPPLY AND RETURN PIPING, AND CONDENSATE DRAIN PIPING. CAP CONDENSER WATER PIPING FOR REUSE. CLEAN AIR INTAKE AND SUPPLY FOR REUSE. DISCONNECT AND REMOVE ASSOCIATED THERMOSTAT.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
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DATE: 02/03/23

DRAWING TITLE: MECHANICAL

DEMOLITION GROUND FLOOR PLAN - AREA C

DRAWING NO.: MD104

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

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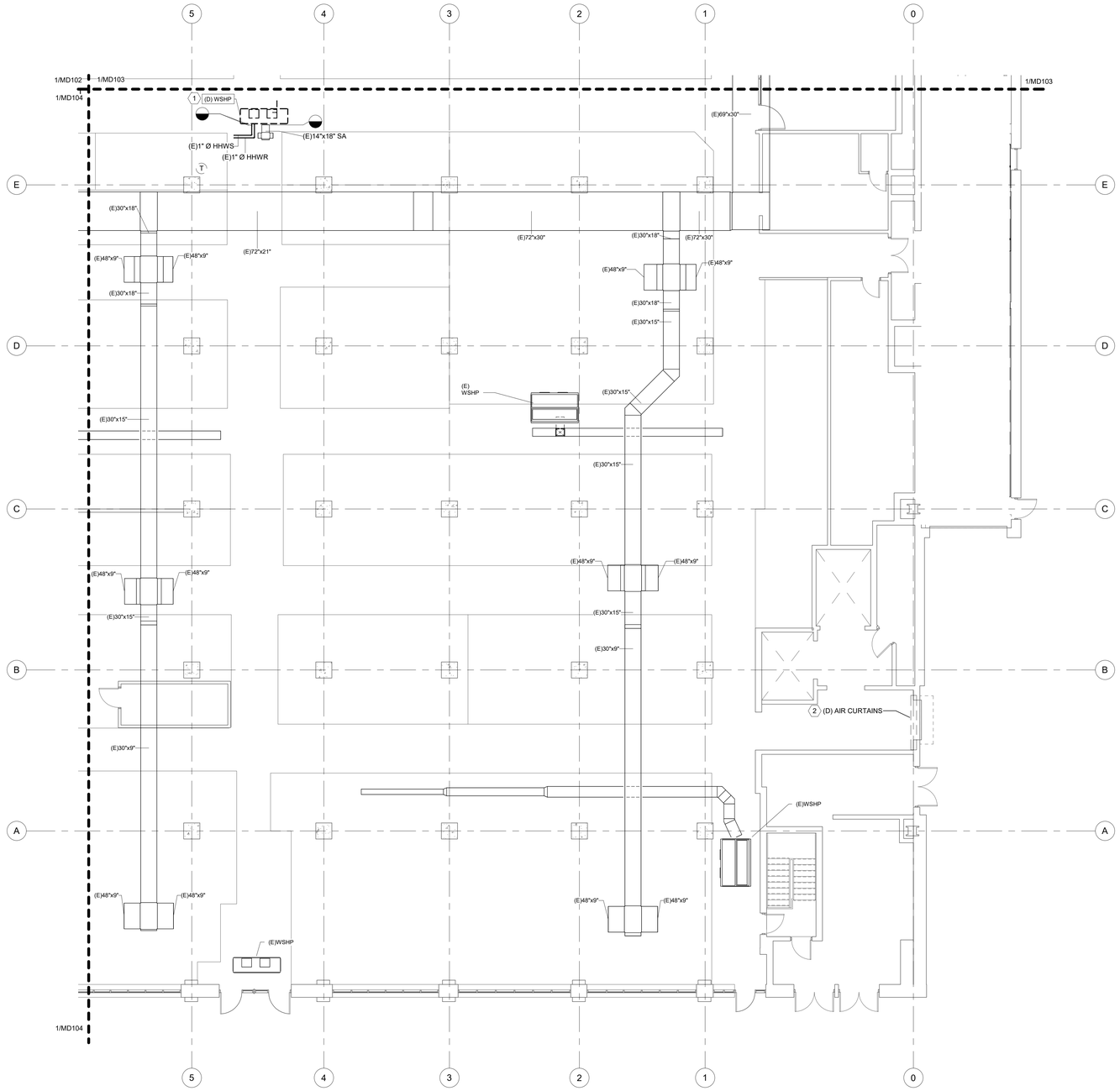


1 MECHANICAL DEMOLITION GROUND FLOOR PLAN - AREA D

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

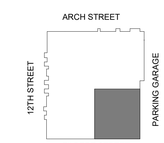
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN. EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

DEMOLITION KEYNOTES

1. REMOVE EXISTING WATER SOURCE HEAT PUMP AND ASSOCIATED SUPPORTS AND ELECTRICAL CONNECTIONS. DISCONNECT SUPPLY AIR DUCTWORK, HEATING HOT WATER SUPPLY AND RETURN PIPING, AND CONDENSATE DRAIN PIPING. CAP CONDENSER WATER PIPING FOR REUSE. CLEAN AIR INTAKE AND SUPPLY FOR REUSE. DISCONNECT AND REMOVE ASSOCIATED THERMOSTAT.
2. DISCONNECT POWER TO EXISTING AIR CURTAIN. REMOVE AIR CURTAIN AND RETURN TO OWNER.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
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DATE: 02/03/23

DRAWING TITLE: MECHANICAL DEMOLITION GROUND FLOOR PLAN - AREA D

DRAWING NO.: MD105

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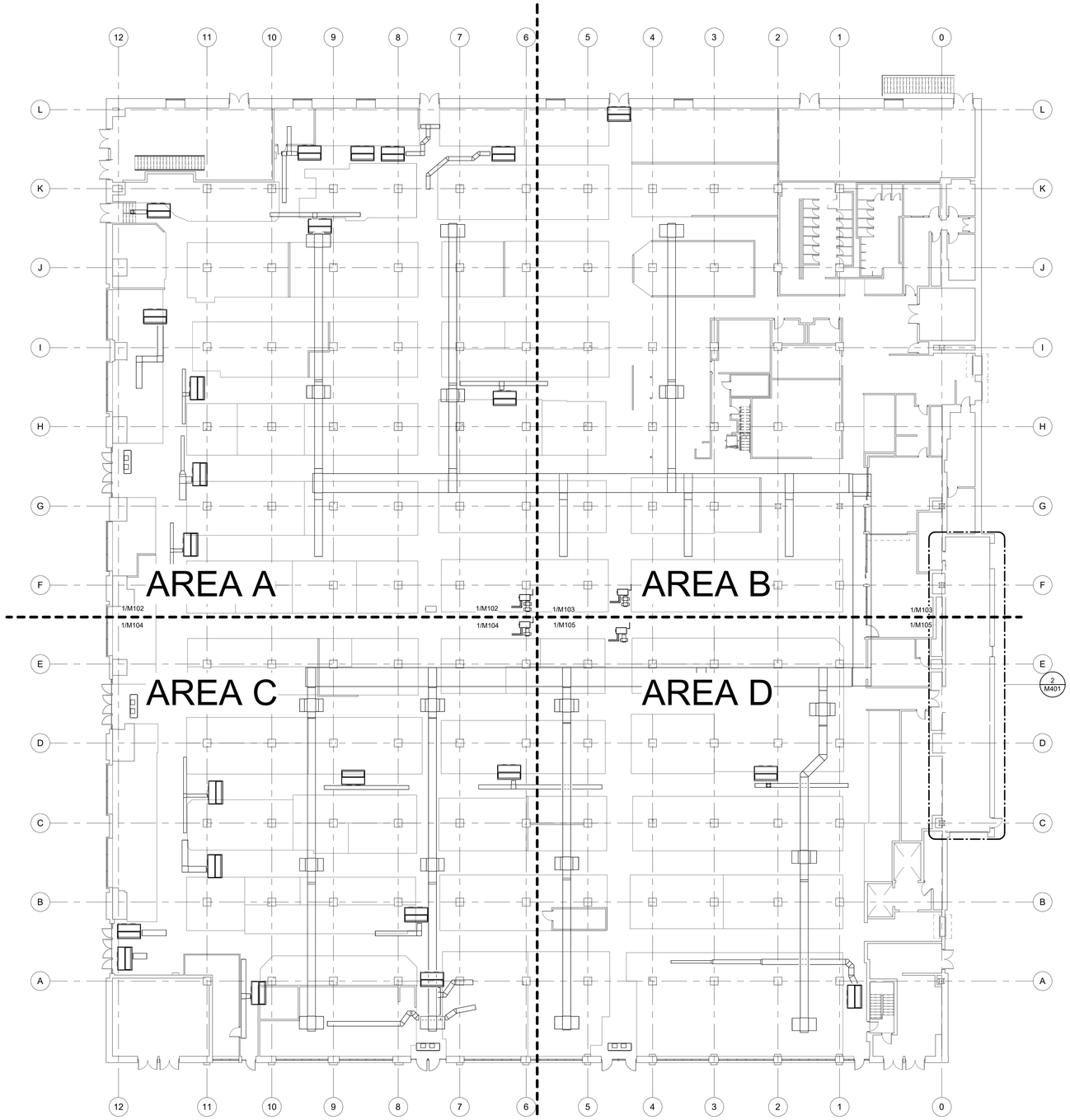


1 MECHANICAL NEW WORK GROUND FLOOR OVERALL PLAN

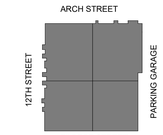
SCALE: 1/16" = 1'-0"

SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

0' 16' 32'

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



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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
SAJ	SAJ	BMW

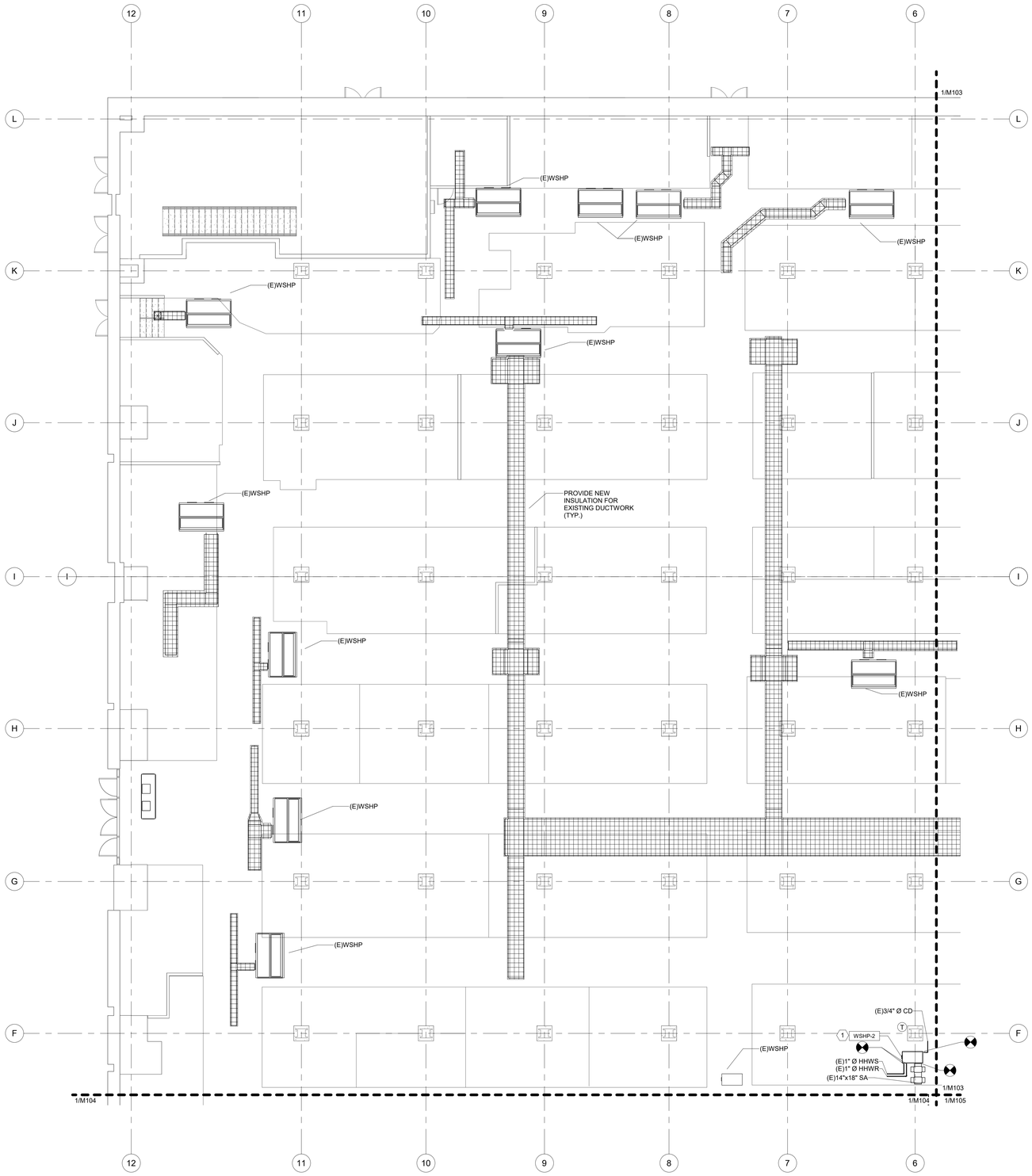
DATE: 02/03/23

DRAWING TITLE: MECHANICAL NEW WORK GROUND FLOOR OVERALL PLAN

DRAWING NO.: M101

Local File:Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 7:59:17 AM



1 MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA A

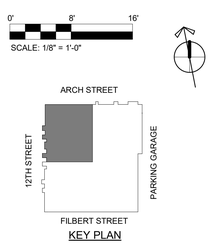
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. PROVIDE NEW CEILING-MOUNTED WATER SOURCE HEAT PUMP. CONNECT TO EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING. CONNECT TO EXISTING CONDENSATE DRAIN PIPING. CONNECT TO EXISTING SUPPLY AIR DUCTWORK. PROVIDE FLEXIBLE DUCTWORK CONNECTION. PROVIDE NEW THERMOSTAT WITH CLEAR LEXAN LOCKABLE COVER, 10 FEET ABOVE FINISHED FLOOR. COORDINATE ELECTRICAL CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.



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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
SAJ	SAJ	BMW

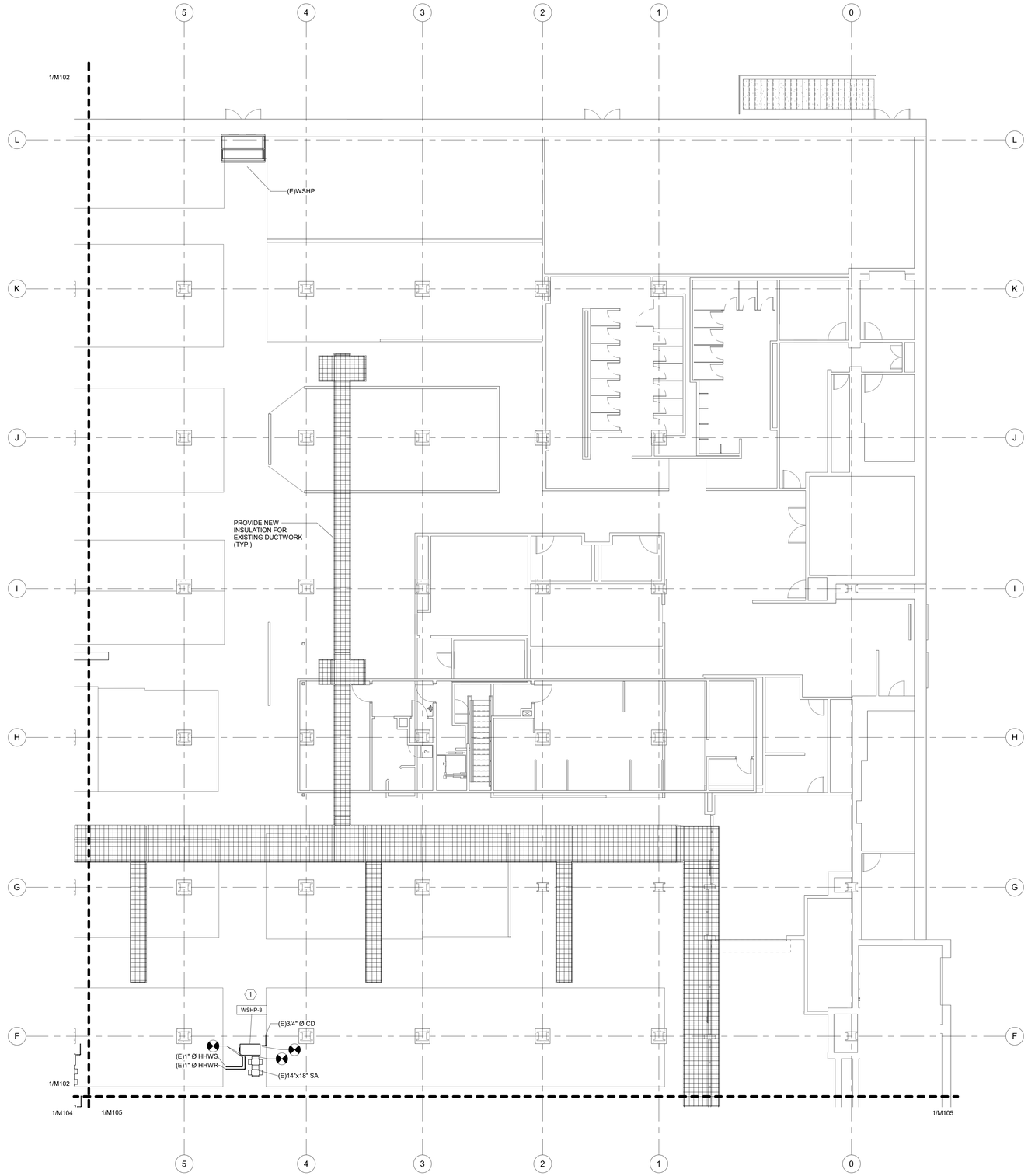
DATE: 02/03/23

DRAWING TITLE: MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA A

DRAWING NO.: M102

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 7:59:19 AM



1 MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA B

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

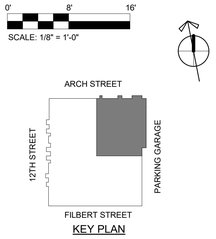
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. PROVIDE NEW CEILING-MOUNTED WATER SOURCE HEAT PUMP. CONNECT TO EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING. CONNECT TO EXISTING CONDENSATE DRAIN PIPING. CONNECT TO EXISTING SUPPLY AIR DUCTWORK. PROVIDE FLEXIBLE DUCTWORK CONNECTION. PROVIDE NEW THERMOSTAT WITH CLEAR LEXAN LOCKABLE COVER. 10 FEET ABOVE FINISHED FLOOR. COORDINATE ELECTRICAL CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
SAJ	SAJ	BMW

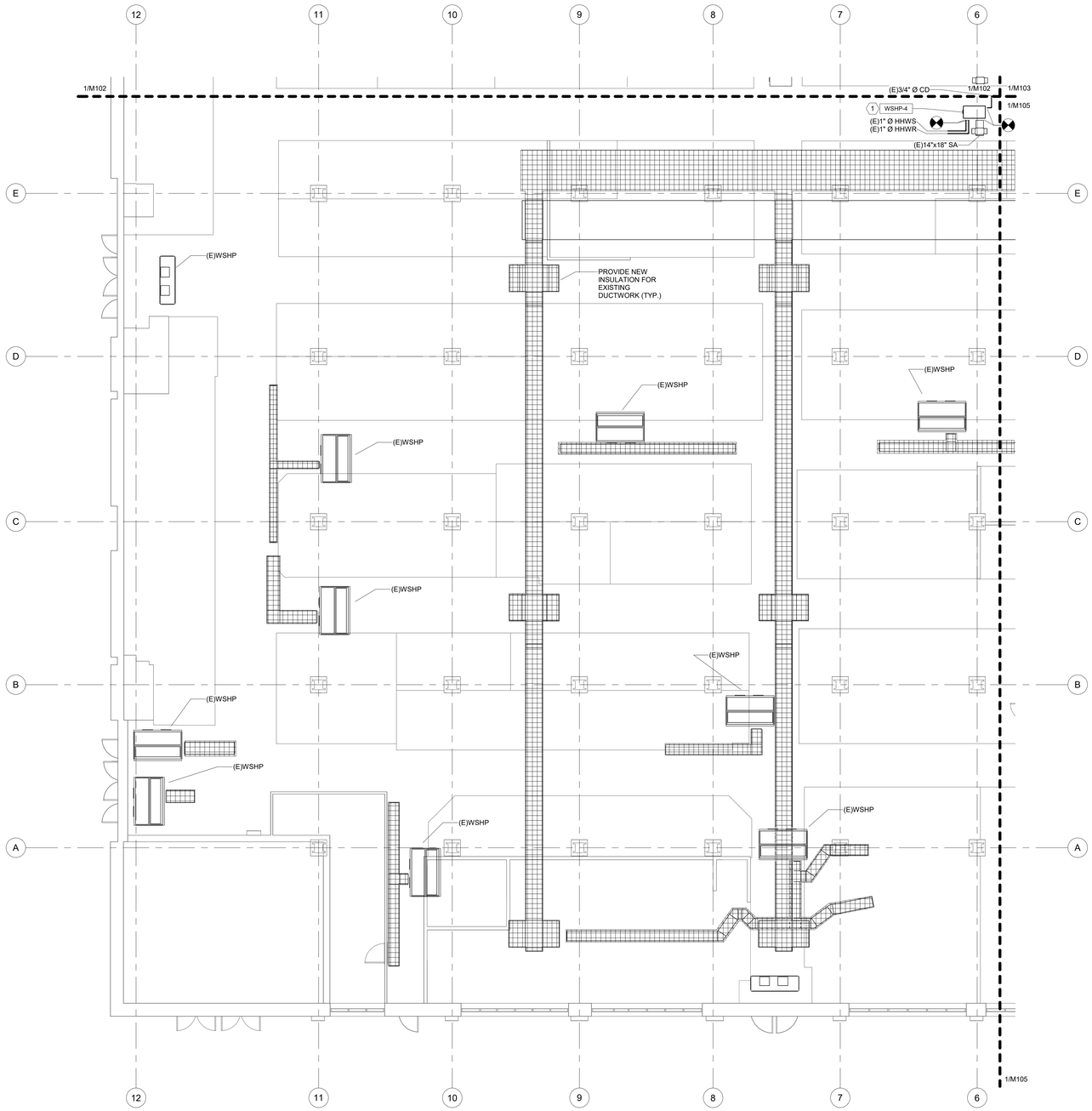
DATE: 02/03/23

DRAWING TITLE: MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA B

DRAWING NO.: M103

Local File:Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 7:59:20 AM



1 MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA C

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

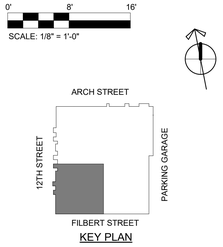
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. PROVIDE NEW CEILING-MOUNTED WATER SOURCE HEAT PUMP. CONNECT TO EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING. CONNECT TO EXISTING CONDENSATE DRAIN PIPING. CONNECT TO EXISTING SUPPLY AIR DUCTWORK. PROVIDE FLEXIBLE DUCTWORK CONNECTION. PROVIDE NEW THERMOSTAT WITH CLEAR LEXAN LOCKABLE COVER, 10 FEET ABOVE FINISHED FLOOR. COORDINATE ELECTRICAL CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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NO.	DATE	DESCRIPTION

REVISIONS

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PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
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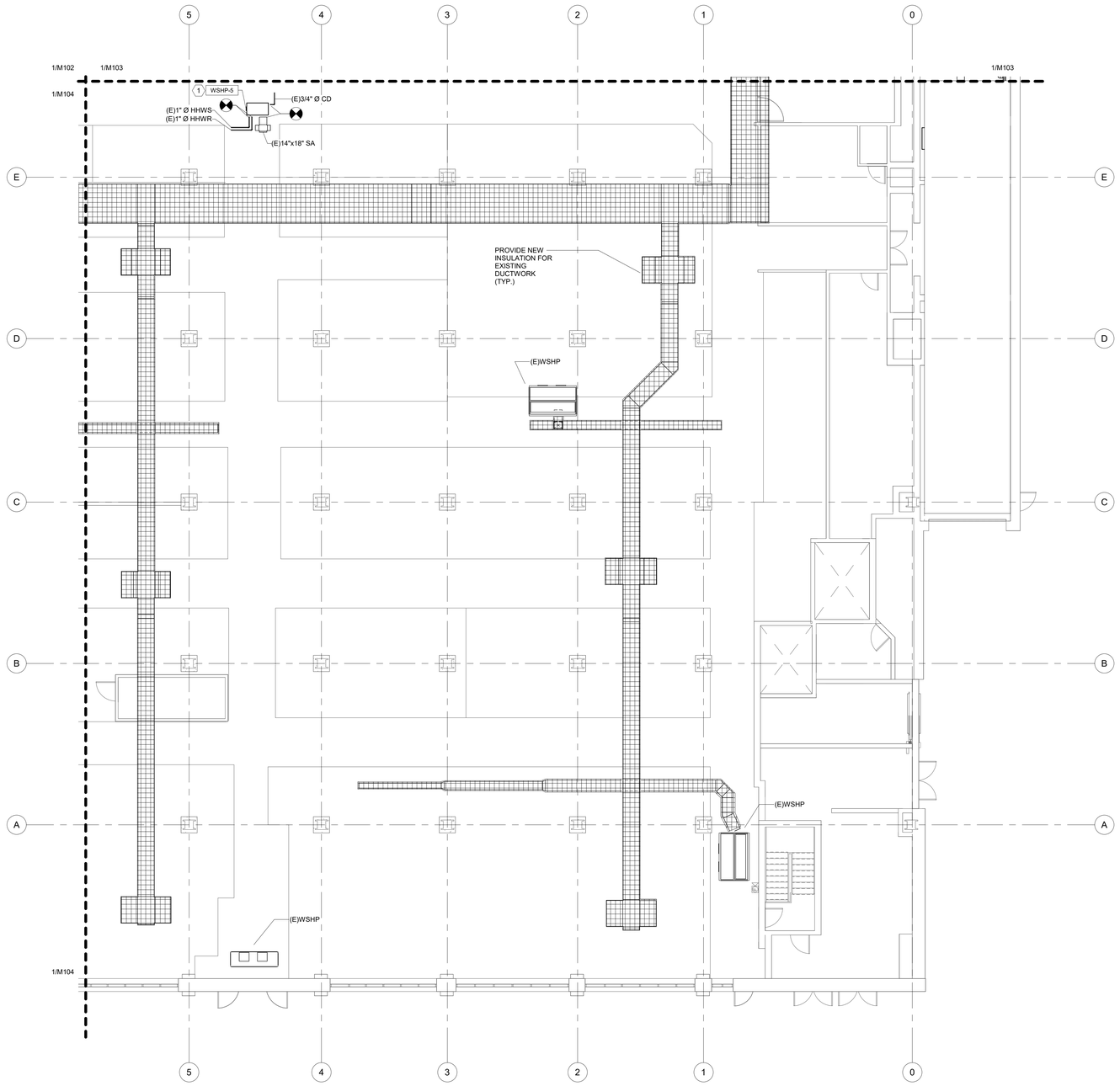
DATE: 02/03/23

DRAWING TITLE: MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA C

DRAWING NO.: M104

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt
Project Number: 071274
2/3/2023 7:59:21 AM



1 MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA D

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

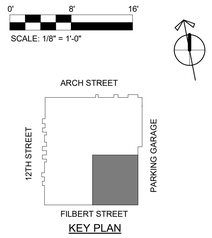
SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. PROVIDE NEW CEILING-MOUNTED WATER SOURCE HEAT PUMP. CONNECT TO EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING. CONNECT TO EXISTING CONDENSATE DRAIN PIPING. CONNECT TO EXISTING SUPPLY AIR DUCTWORK. PROVIDE FLEXIBLE DUCTWORK CONNECTION. PROVIDE NEW THERMOSTAT WITH CLEAR LEXAN LOCKABLE COVER, 10 FEET ABOVE FINISHED FLOOR. COORDINATE ELECTRICAL CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.

0' 8' 16'
SCALE: 1/8" = 1'-0"



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NO.	DATE	DESCRIPTION

REVISIONS

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PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
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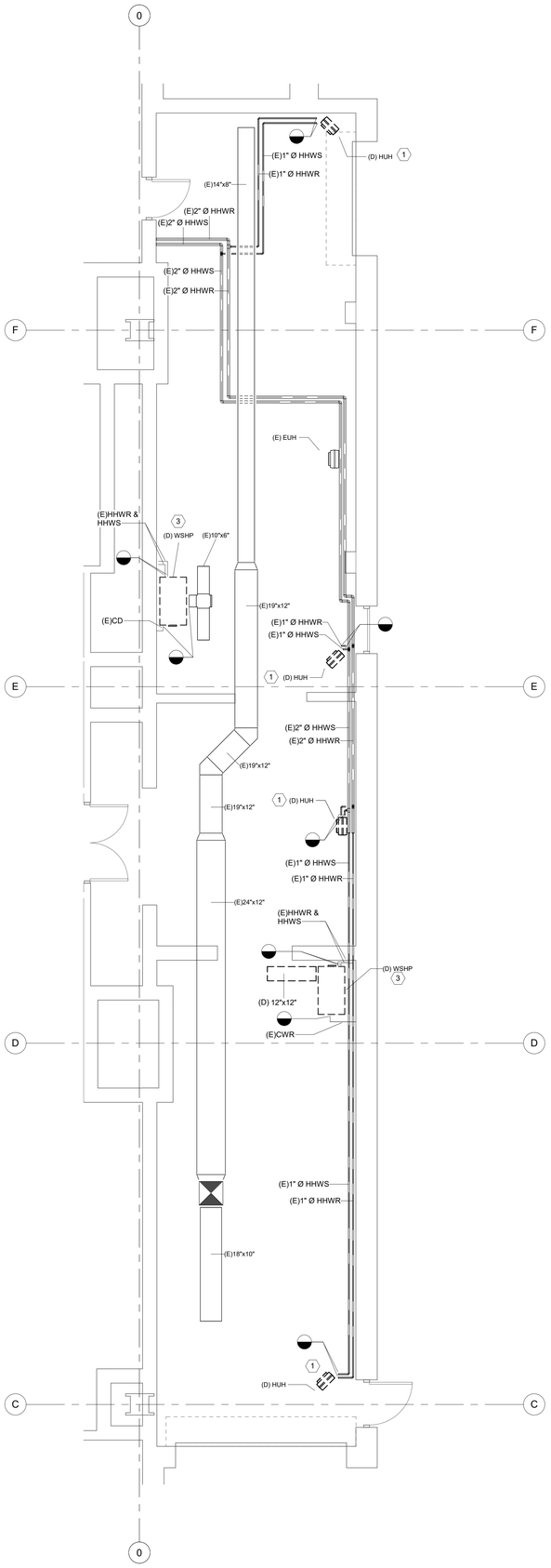
DATE: 02/03/23

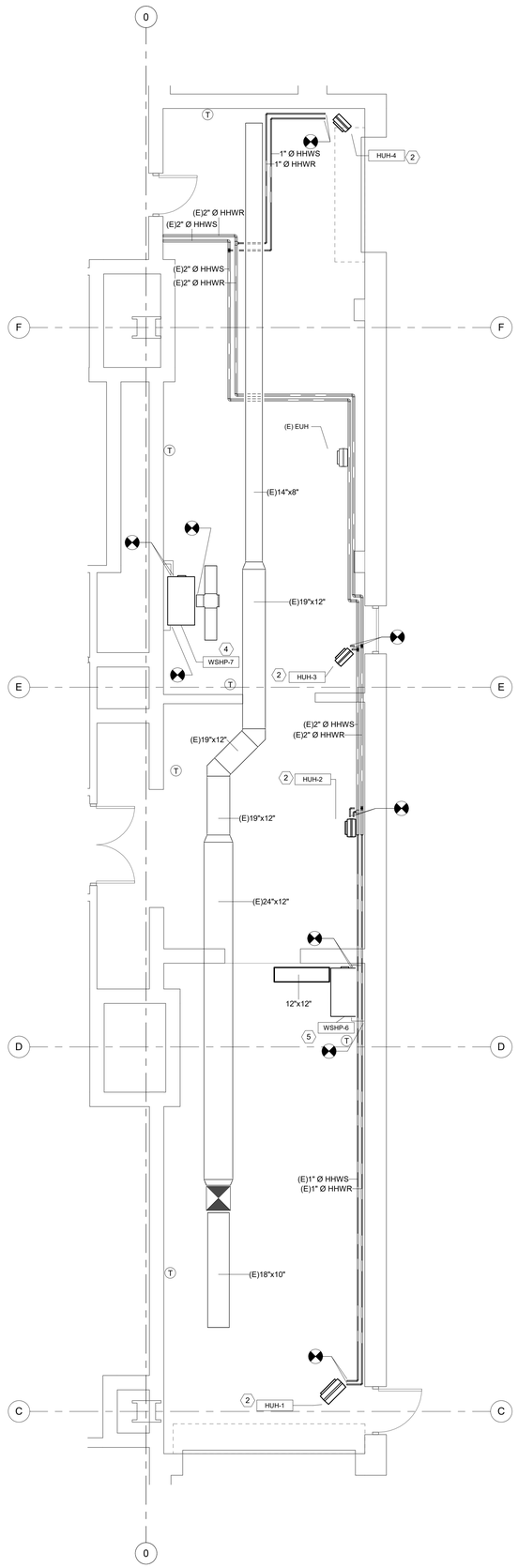
DRAWING TITLE: MECHANICAL NEW WORK GROUND FLOOR PLAN - AREA D

DRAWING NO.: M105

Local File:Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt
Project Number: 071274
2/3/2023 7:59:22 AM



1 **MECHANICAL DEMOLITION TRASH ROOM ENLARGED PLAN**
SCALE: 1/4" = 1'-0"



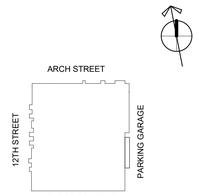
2 **MECHANICAL NEW WORK TRASH ROOM ENLARGED PLAN**
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. CLEAN ALL EXISTING DUCTWORK TO REMAIN. INSULATE ALL EXISTING DUCTWORK TO REMAIN, EXCEPT FOR SECTIONS WHERE EXISTING CONDUIT AND EXISTING SPRINKLERS PROHIBIT INSULATION INSTALLATION. INSULATION SHALL BE MINIMUM OF 1" CLEAR FROM EXISTING SPRINKLERS. REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. REMOVE WALL MOUNTED HYDRONIC UNIT HEATER. CAP HEATING HOT WATER SUPPLY AND RETURN PIPING FOR LATER USE. REMOVE THERMOSTAT.
2. INSTALL NEW WALL MOUNTED HYDRONIC UNIT HEATER. CONNECT TO EXISTING HEATING HOT WATER SUPPY AND RETURN PIPING. INSTALL THERMOSTAT ON WALL.
3. REMOVE EXISTING WATER SOURCE HEAT PUMP AND ASSOCIATED SUPPORTS AND ELECTRICAL CONENCTIONS. DISCONNECT SUPPLY AND RETURN HOT WATER PIPING, AND CONDENSATE DRAIN PIPING. CAP HEATING HOT WATER PIPING FOR REUSE.
4. PROVIDE NEW WATER SOURCE HEAT PUMP. CONNECT TO EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING. CONNECT TO EXISTING CONDENSATE PIPING. CONNECT TO EXISTING SUPPLY AIR DUCTWORK. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS. PROVIDE NEW THERMOSTAT WITH CLEAR LEXAN LOCKABLE COVER.
5. PROVIDE NEW WATER SOURCE HEAT PUMP. CONNECT TO EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING. CONNECT TO EXISTING CONDENSATE PIPING. CONNECT TO NEW SUPPLY AIR DUCTWORK. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS. PROVIDE NEW THERMOSTAT WITH CLEAR LEXAN LOCKABLE COVER.



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NO.	DATE	DESCRIPTION

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GENERAL PACKAGE

PROJECT NUMBER: 071274

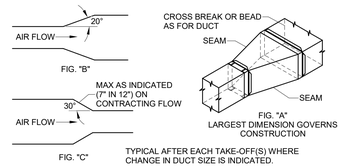
DESIGNED:	MODELED:	CHECKED:
SAJ	SAJ	BMW

DATE: 02/03/23

DRAWING TITLE: MECHANICAL
ENLARGED SCALE DRAWINGS - PLANS

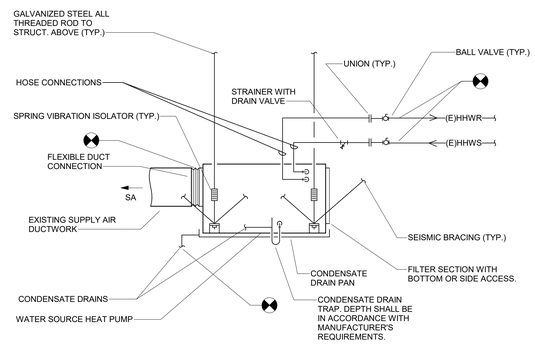
DRAWING NO.: M401

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt
Project Number: 071274
2/3/2023 7:59:25 AM



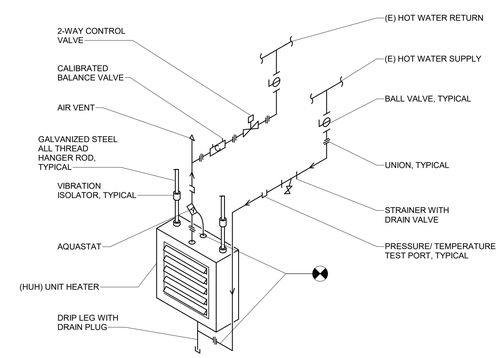
1 DUCT TRANSITION DETAIL

SCALE: NTS



2 WATER SOURCE HEAT PUMP - CEILING MOUNT

SCALE: NTS



3 HORIZONTAL HYDRONIC UNIT HEATER

SCALE: NTS

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NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
SAJ	SAJ	BMW

DATE: 02/03/23

DRAWING TITLE: MECHANICAL DETAILS

DRAWING NO.: M501

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 7:59:26 AM

WATER SOURCE HEAT PUMP UNIT SCHEDULE

MARK	SUPPLY FAN ESP (IN WG)	COIL FLUID TYPE	AIRFLOW RATE (CFM)	CONDENSER WATER COOLING COIL TOTAL CAPACITY (MBH)	SENS. (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	EWT (°F)	LWT (°F)	HYDRONIC HEATING COIL TOTAL CAPACITY (MBH)	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	ELECTRICAL DATA V	Ø	FLA	MCA	MOCP	ENERGY EFFICIENCY EER	COP	OPERATING WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
WSHP-2	0.25	WATER	2055	59.3	43	80	67	61	56	85	97	80.1	68	104	70	60	460	3	9.9	11.9	15.0	13.3	4.6	298	CLIMATEMASTER	TR-	1
WSHP-3	0.25	WATER	2055	59.3	43	80	67	61	56	85	97	80.1	68	104	70	60	460	3	9.9	11.9	15.0	13.3	4.6	298	CLIMATEMASTER	TR-	1
WSHP-4	0.25	WATER	2055	59.3	43	80	67	61	56	85	97	80.1	68	104	70	60	460	3	9.9	11.9	15.0	13.3	4.6	298	CLIMATEMASTER	TR-	1
WSHP-5	0.25	WATER	2055	59.3	43	80	67	61	56	85	97	80.1	68	104	70	60	460	3	9.9	11.9	15.0	13.3	4.6	298	CLIMATEMASTER	TR-	1
WSHP-6	0.50	WATER	1155	32.5	23	80	67	57	52	85	97	0.0	0	0	0	0	460	3	7.3	8.8	15.0	12.3	4.3	213	CLIMATEMASTER	TR-	1,2
WSHP-7	0.50	WATER	1705	54.9	36	80	67	56	51	85	97	0.0	0	0	0	0	460	3	9.9	11.9	15.0	13.3	4.6	298	CLIMATEMASTER	TR-	1,2

1. PROVIDE WITH REMOTE THERMOSTAT AND BACNET CAPABLE CONTROLLER
2. COOLING ONLY

HYDRONIC UNIT HEATER SCHEDULE

MARK	AIRFLOW (CFM)	HEATING (BTUH)	FLOW (GPM)	WPD (FT/H2O)	V	PH	HP	SHIPPING WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
HUH-1	1100	54900	3.5	0.24	230	1	0.083	47	TRANE	UHSB0843xAAxxxxxxxx	1,2,3,4,5,6,7,8,9
HUH-2	630	31300	3.5	0.12	230	1	0.05	41	TRANE	UHSB0483xAAxxxxxxxx	1,2,3,4,5,6,7,8,9
HUH-3	630	31300	3.5	0.12	230	1	0.05	41	TRANE	UHSB0483xAAxxxxxxxx	1,2,3,4,5,6,7,8,9
HUH-4	630	31300	3.5	0.12	230	1	0.05	41	TRANE	UHSB0483xAAxxxxxxxx	1,2,3,4,5,6,7,8,9

1. PROVIDE WITH REMOTE THERMOSTAT.
2. PROVIDE WITH OSHA FAN GUARD.
3. PROVIDE WITH SINGLE POINT ELECTRICAL POWER CONNECTION AND MOTOR OVERLOAD PROTECTION.
4. PROVIDE WITH FACTORY-INSTALLED CONTROL POWER TRANSFORMER AND DISCONNECT SWITCH.
5. PROVIDE WITH ADJUSTABLE HORIZONTAL AIR DISCHARGE LOUVERS.
6. PROVIDE WITH MOUNTING BRACKET.
7. MAINTAIN MANUFACTURER'S REQUIRED SERVICE AND AIRFLOW CLEARANCES.
8. UNIT HEATER SHALL BE U.L. LISTED.
9. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

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PROJECT NUMBER: 071274

DESIGNED: SAJ | MODELED: SAJ | CHECKED: MJM

DATE: 02/03/23

DRAWING TITLE: MECHANICAL SCHEDULES

DRAWING NO.: M601

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 7:59:26 AM

ABBREVIATIONS

@	AT
A	AIR
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AD	AREA DRAIN, ACCESS DOOR, AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUST, ADJUSTABLE
AF	ANTI-FREEZE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
AST	ABOVEGROUND STORAGE TANK
ATF	AUTO TRANSMISSION FLUID
ATV	ATMOSPHERIC VENT
AVG	AVERAGE
BA	BREATHABLE AIR
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLW	BELOW
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BASIS OF DESIGN
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	COMMON
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CL	CENTER LINE
CLDIP	CEMENT-LINED DUCTILE IRON S PIPE
CLNG	CEILING
CNG	COMPRESSED NATURAL GAS
CO	CLEANOUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CONT'D	CONTINUED
CPVC	CHLORINATED POLYVINYL CHLORIDE
CV	CLEANING VACUUM, CHECK VALVE
CW	COLD WATER
Cx	COMMISSIONING
CxA	COMMISSIONING AUTHORITY
(D)	DEMOLISH, REMOVE
D	DRAIN, DEPTH
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEG, °	DEGREES
DEH	DEHUMIDIFIER
DEPT	DEPARTMENT
DESG	DESIGNATION
DFU	DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DIFF	DIFFERENTIAL, DIFFERENCE
DISC	DISCONNECT
DN	DOWN
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
(E)	EXISTING TO REMAIN
(ER)	EXISTING RELOCATED
EA	EACH
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY FIXTURE
EQ	EQUAL
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
(F)	FUTURE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDR	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FUEL GAS
FG	FUEL GAS
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FM	FLOW METER
FO	FUEL OIL
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOW SWITCH
FT HD	FEET OF HEAD
FT, '	FOOT, FEET
FW	FILTERED WATER
FZ	FREEZE, FREEZESTAT
°F	DEGREES FAHRENHEIT
G	GAS
GA	GAUGE
GAL	GALLON, GALLONS
GALV	GALVANIZED
GCO	GRADE CLEANOUT
GEN	GENERATOR
GI	GREASE INTERCEPTOR
GL	GEAR LUBE
GO	GEAR OIL
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GREASE
GW	GREASE WASTE
H	HEIGHT
H2O	WATER
HB	HOSE BIB
HORIZ	HORIZONTAL
HP	HORSEPOWER
HTC	HEAT TRACE CONTROLLER
HTG	HEATING
HTP	HEAT TRACE PANEL
HUM	HUMIDIFIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ (CYCLES PER SECOND)
ID	INSIDE DIAMETER
IN WG	INCHES OF WATER GAUGE
IN, "	INCH, INCHES
INFO	INFORMATION
INT	INTERIOR
INV EL	INVERT ELEVATION
ISOL	ISOLATION
IW	INDUSTRIAL WASTE, INDIRECT WASTE
KW	KILOWATTS
L	LENGTH, LONG
LAV	LAVATORY
LBS	POUNDS
LDR	LEADER
LEC	LIGHTED END CONNECTION
LEED	LEADERSHIP IN ENERGY &
LG	LIGHT GEAR LUBE
LP	LIQUID PROPANE
LPCR	LOW PRESSURE CONDENSATE RETURN
LRA	LOAD RATED AMPS
LWT	LEAVING WATER TEMPERATURE
M	METER
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MEDICAL GAS
MIN	MINIMUM
MO	MOTOR OIL
MR	MOP RECEPTOR
MTD	MOUNTED
MTG	MOUNTING
MUW	MAKE UP WATER
MV	MEDICAL VACUUM
N	NITROGEN
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED, NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION AGENCY
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NGR	NATURAL GAS REGULATOR
NIC	NOT IN CONTRACT
NO	NORMALLY OPENED
No	NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
IV	INDUSTRIAL VENT
O /2, O2	OXYGEN
OC	ON CENTER
OFD	OVERFLOW DRAIN
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE VALVE
OSD	OPEN SITE DRAIN
OVH	OVERHEAD
OWS	OIL WATER SEPARATOR
%	PERCENT
P	PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PH	PHASE
PIW	PUMPED INDUSTRIAL WASTE
PLBG	PLUMBING
PNEU	PNEUMATIC
POS	POSITION
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSAN	PUMPED SANITARY
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
(RL)	RELOCATED POSITION
R	RISE
RD	ROOF DRAIN
REF	REFRIGERANT
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE BFP
RV	REGULATOR VENT
RW	RECLAIMED WATER
RWC	RAIN WATER CONDUCTOR
S	SWITCH
S/S	START/STOP
SAN	SANITARY
SCW	SOFTEN DOMESTIC COLD WATER
SD	STORM DRAIN
SF	SUPPLY FAN, SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHW	SOFTEN DOMESTIC HOT WATER
SK	SINK
SNW	SOFTEN DOMESTIC NON-POTABLE WATER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FOOT, SQUARE FEET
SS	STAINLESS STEEL
SSK	SERVICE SINK
ST	STORM WATER
STD	STANDARD
STL	STEEL
STO	STORM WATER OVERFLOW
TD	TRENCH DRAIN
TEMP	TEMPERATURE, TEMPORARY
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	DOMESTIC TEMPERED WATER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UST	UNDERGROUND STORAGE TANK
V	VOLTS, VENT
VAC	VACUUM
VCO	VERTICAL CLEAN OUT
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WIDTH, WIDE
W/	WITH
W/O	WITHOUT
WA	WASTE ANTI-FREEZE
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WASTE DRAIN
WFU	WATER SUPPLY FIXTURE UNITS
WG	WATER GAUGE
WH	WATER HEATER, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WMS	WIRE MESH SCREEN
WO	WASTE OIL
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER
WSHP	WATER SOURCE HEAT PUMP
WT	WEIGHT
WW	WELL WATER
ZN	ZONE

PIPING & FITTINGS

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC/RETURN
	VENT
	PIPING TURNING UP
	PIPING TURNING DOWN
	TEE DOWN
	PIPE BRANCH BOTTOM TAKEOFF
	PIPE BRANCH TOP TAKEOFF
	VALVE IN VERTICAL PIPE
	CAP
	FLOW DIRECTION
##	PIPE SLOPE WITH IN/FT OR %
	PIPE RISER UP/DOWN
	CONCENTRIC REDUCER/INCREASER
	ECCENTRIC REDUCER/INCREASER (FOB)
	UNION
	PIPE CONTINUATION
	FLEXIBLE PIPE CONNECTOR
HB	HOSEBIB
WH	WALL HYDRANT
NFWH	NON-FREEZE WALL HYDRANT
	WATER HAMMER ARRESTOR
	AIR ADMITTANCE VALVE
AAV	AUTOMATIC AIR VENT (EXTEND TO DRAIN)
MAV	MANUAL AIR VENT
	PRESSURE/TEMPERATURE TEST PORT
	AQUASTAT
	PRESSURE GAUGE WITH COCK
	THERMOMETER
T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE TRANSDUCER
FS	FLOW SWITCH
FM	FLOW METER
TS	TAMPER SWITCH
	PUMP
	ROOF DRAIN
	ROOF DRAIN WITH OVERFLOW
	FLOOR DRAIN
	FLOOR CLEANOUT
	GRADE CLEANOUT
CO	CLEANOUT
WCO	WALL CLEANOUT
M	WATER METER
M G	GAS METER
	ACCESS PANEL

VALVES

SYMBOL	THREE LINE PLAN	THREE LINE ELEVATION	DESCRIPTION
			GEN. SHUTOFF VALVE (BALL, GATE, BUTTERFLY)
			GATE VALVE
			GLOBE VALVE
			OUTSIDE STEM & YOKE VALVE
			BALL VALVE
			BUTTERFLY VALVE
			CHECK VALVE
			GAS COCK
			PRESSURE REDUCING VALVE
			CALIBRATED BALANCING VALVE
			CONTROL VALVE, TWO-WAY
			CONTROL VALVE, THREE-WAY
			THREE-WAY MANUAL VALVE
			SOLENOID VALVE
			ANGLE VALVE
			RELIEF/SAFETY VALVE
			STRAINER
			STRAINER WITH DRAIN VALVE AND CAP

LINES & REFERENCE SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NEW WORK LINEWEIGHT	NG #	NATURAL GAS RISER
	DEMOLITION WORK LINEWEIGHT	RWC #	RAIN WATER CONDUIT RISER
	AREA OF DEMOLITION	SAN #	SANITARY RISER
	EXISTING WORK LINEWEIGHT	V #	VENT RISER
	FUTURE WORK LINEWEIGHT		NORTH ARROW
	POINT OF CONNECTION		
	TERMINATION POINT OF DEMOLITION		
	POINT OF FUTURE CONNECTION		
#	SHEET NOTE REFERENCE		
#	DRAWING REVISION NUMBER		
E-1	EQUIPMENT DESIGNATION		
DCW #	DOMESTIC WATER RISER		
CD #	CONDENSATE DRAIN RISER		

GENERAL NOTES

1. PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. PLUMBING DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.
2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS OR TO SHOW EVERY PIPE, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS.
3. INSTALL EQUIPMENT IN A SERVICEABLE MANNER WITHOUT DISRUPTION TO ADJACENT SERVICES OR DAMAGING INSULATION. THIS INCLUDES, BUT IS NOT LIMITED TO: PROVIDE VALVE OPERATOR EXTENSIONS TO EXTEND THRU THE INSULATION AND HANDLES TO SWING TOWARD THE OPERATOR FOR ISOLATION.
4. PROVIDE ALL NEW AND REUSED WALL PENETRATIONS WITH A SLEEVE/CONDUIT FOR SERVICES PENETRATING IT. THIS INCLUDES, BUT IS NOT LIMITED TO: PIPING, POWER, AND CONTROL WIRING.
5. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
   A. CHECK ARCHITECTURAL, ELECTRICAL, & MECHANICAL DRAWINGS FOR WORK SHOWN TO BE WITHIN PLUMBING SCOPE.
   B. COORDINATE PLUMBING WORK WITH OTHER DISCIPLINES, SEE SPECIFICATIONS FOR INFORMATION REGARDING COORDINATION DRAWINGS.
      a. PROVIDE DEDUCTIONS FOR ANY OWNER AGREED REDUCTIONS IN PIPING RUNS.
      b. COORDINATE ROUGH-IN INFORMATION WITH FIXTURES AND EQUIPMENT SUPPLIERS.
      c. COORDINATE PLUMBING FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
6. THE ENTIRE PLUMBING SYSTEM SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
   A. CONFORM TO APPLICABLE BUILDING CODES AND THE OWNER'S INSURANCE AGENCY.
   B. PROCURE ALL LICENSES, PERMITS, CERTIFICATIONS, AND AGENCY APPROVALS PRIOR TO COMMENCING FABRICATION OR INSTALLATION.
   C. PROVIDE ALL REQUIRED DOCUMENTS, CALCULATIONS AND DRAWINGS.
7. PLUMBING SYSTEMS SHALL NOT BE LOCATED IN ELEVATOR SHAFTS AND ELEVATOR PIT ROOMS EXCEPT FLOOR DRAINS, SUMP PUMPS AND SUMP PUMP DISCHARGE PIPING DEDICATED TO THE SHAFT AND LOCATED AT THE BASE OF THE SHAFT.
8. PLUMBING SYSTEMS SHALL NOT BE LOCATED IN ELECTRICAL EQUIPMENT ROOMS, TRANSFORMER VAULT, ELECTRICAL CLOSETS, TELE DATA ROOMS OR SIMILAR AREAS CONTAINING ELECTRICAL EQUIPMENT.
   A. DO NOT INSTALL PIPING OVER, AROUND, IN FRONT OF, BEHIND OR DIRECTLY BELOW ELECTRICAL EQUIPMENT, SWITCHES, TERMINALS OR SIMILAR ELECTRICAL EQUIPMENT.
   B. MAINTAIN 42" IN FRONT OF 480 VAC EQUIPMENT AND 36" IN FRONT OF 240 VAC EQUIPMENT.
   C. CONFORM TO NEC.
9. NO PLUMBING SYSTEMS SHALL PENETRATE INTO OR PASS THROUGH STAIRWAYS UNLESS IT IS FOR SERVICING THE STAIRWAY.
10. INSTALL PIPING IN A CONCEALED MANNER, STRAIGHT, PLUMB, AND FORM RIGHT ANGLES PARALLEL WITH BUILDING WALLS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER. PIPE WILL BE LOCATED TO PERMIT ACCESS FOR SERVICE VALVES.
11. CONCRETE PADS AND PITS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS.
12. COORDINATE PLUMBING SYSTEM SHUT DOWN REQUIREMENTS WITH OWNER. NOTIFY OWNER A MINIMUM OF 48 HOURS PRIOR TO SYSTEM SHUT DOWN.
13. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
14. ONLY CAST IRON PIPING FOR SANITARY AND VENTING SHALL BE INSTALLED IN PLENUM SPACES. CONTRACTOR SHALL VERIFY / COORDINATE THE EXACT PLENUM SPACES WITH THE MECHANICAL PLANS AND CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
15. PROVIDE PIPING PENETRATIONS WITH FIRE RATINGS EQUAL TO OR GREATER THAN, THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
   A. COORDINATE PIPE PENETRATIONS WITH CONCRETE CONSTRUCTION.
   B. PROVIDE CORE DRILLED PENETRATIONS AT ALL LOCATIONS WHERE CONCRETE OR MASONRY WALLS OR FLOORS HAVE BEEN CONSTRUCTED PRIOR TO PLUMBING PIPING INSTALLATION.
   C. CORING SIZES AND LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
   D. EXTEND SLEEVES 2" ABOVE FLOOR SLAB IN ALL WET AREAS SUCH AS MECHANICAL ROOMS AND WASH AREA.
16. PROVIDE FLUSH TYPE ACCESS DOORS OR PANELS FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS, NON ACCESSIBLE CEILINGS OR FLOOR.
17. PROVIDE CLEANOUTS FOR ALL HORIZONTAL STORM AND SANITARY PIPING AT EVERY CHANGE IN DIRECTION GREATER THAN 45-DEGREES AND AT THE BASE OF ALL STACKS.
18. PROVIDE PIPE IDENTIFICATION LABELS WITH DIRECTIONAL FLOW ARROWS ON ALL HORIZONTAL RUNS EVERY 20 FT.
19. PROVIDE TRAP PRIMERS WITH 1/2" PIPING FOR ALL FLOOR DRAINS WITHOUT SUFFICIENT WATER TO MAINTAIN TRAP SEAL OR A BARRIER TYPE TRAP SEAL PROTECTION DEVICE COMPLYING WITH ASSE 1072.
20. SUPPORT ALL PIPING IN CONFORMANCE WITH SPECIFICATIONS AND THE PLUMBING CODE.
   A. SEE PLUMBING CODE FOR SPACING REQUIREMENTS.
   B. CONFORM TO THE BUILDING CODE AND MSS SP-127 FOR SEISMIC, WIND AND DYNAMIC FORCES.
21. PROVIDE WATER HAMMER ARRESTORS ON SUPPLY LINES TO FLUSH VALVES, SOLENOID VALVES AND AUTOMATIC VALVES. IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES. INSTALL IN ACCESSIBLE LOCATIONS OR PROVIDE ACCESS PANEL FOR MAINTENANCE.
22. PROVIDE SHUT-OFF VALVES, WITHIN 2 FT. OF MAINS, ON ALL BRANCH PIPING SERVING PLUMBING FIXTURES, EQUIPMENT OR CASEWORK, CONNECT SERVICE BRANCHES TO TOP OF MAINS.
23. PROVIDE DRAIN VALVES AND HOSE CONNECTIONS AT ALL LOW POINTS IN SERVICE PIPING SYSTEM.
24. SLOPE ALL PIPING IN CONFORMANCE WITH SPECIFICATIONS AND THE PLUMBING CODE.
25. PROVIDE PIPING MATERIAL IN CONFORMANCE WITH THE SPECIFICATIONS AND THE PLUMBING CODE.
26. TEST ALL PLUMBING SYSTEMS IN CONFORMANCE WITH THE SPECIFICATIONS AND THE PLUMBING CODE.
27. DISINFECT DOMESTIC WATER SYSTEM IN CONFORMANCE WITH THE SPECIFICATIONS AND THE PLUMBING CODE.
28. INSTALL PLUMBING FIXTURES AND EQUIPMENT IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE PLUMBING CODE.
29. PROVIDE PIPE SLEEVES THROUGH CONCRETE BEAMS WHERE REQUIRED, COORDINATE WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
30. PROVIDE HEAT TRACING FOR PIPING LOCATED IN UNHEATED AREAS. PROVIDE 1" INSULATION AND JACKET AROUND ALL PIPE WITH HEAT TRACING.
31. PROVIDE RETENTION SHAPES ON ALL ABOVE GROUND CAST IRON NO-HUB FITTINGS AT CHANGE OF DIRECTION IN PIPES OF 5" AND LARGER AS REQUIRED BY CISPI 301.

GENERAL DEMOLITION NOTES

1. UNLESS OTHERWISE NOTED, PIPING TO BE DEMOLISHED SHALL BE REMOVED BACK TO ACTIVE MAIN AND CAPPED AIR/WATER TIGHT. CAP PIPING AS NOT TO CREATE DEAD LEGS.
2. THE DRAWINGS ARE PRIMARILY INTENDED TO SHOW GENERAL PLUMBING DEMOLITION WORK AND SCOPE OF DEMOLITION. EXISTING WORK WHICH IS TO BE DEMOLISHED IS SHOWN DARK OR AS NOTED.
3. COORDINATE ALL DEMOLITION REQUIREMENTS WITH THE OWNER. SECURE OPEN FLAME PERMITS FROM THE OWNER SO ALARM SYSTEMS AND FIRE WATCH PERSONNEL CAN BE EMPLOYED AS NECESSARY.
4. ANY SHUTDOWNS OF EXISTING PLUMBING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S FACILITIES MANAGEMENT OFFICE AND SHALL BE BRIEF, OCCUR WHEN USAGE IS NONEXISTENT OR VERY LIGHT, OR METHODS SHALL BE EMPLOYED WHICH PERMIT SYSTEMS TO STAY IN OPERATION AVOIDING SHUTDOWNS ALTOGETHER. THE OWNER SHALL DETERMINE WHEN AND IF AN EXISTING SYSTEM MAY BE SHUTDOWN.
5. ALL PLUMBING VALVES, OR EQUIPMENT INDICATED TO BE DEMOLISHED SHALL FIRST BE OFFERED TO THE OWNER. THE SCOPE OF DEMOLITION WORK, HOWEVER, SHALL INCLUDE THE DISPOSAL OF ALL DEMOLISHED EQUIPMENT. THE DISPOSAL SHALL BE OFF-SITE AND IN A SAFE & LEGAL MANNER.
6. WHERE EXISTING CEILINGS REMAIN, CAREFULLY REMOVE AND REINSTALL EXISTING CEILING TILES, AS REQUIRED, IN ORDER TO GAIN ACCESS TO DEMOLITION WORK. REPLACE DAMAGED TEE BARS, TILE ETC. IF DAMAGED.
7. REFER TO AND COORDINATE PLUMBING DEMOLITION WORK WITH ALL OTHER DISCIPLINES AS SHOWN ON ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS.
8. WHERE EQUIPMENT AND PIPING ETC. IS TO REMAIN, AND IS SUPPORTED FROM ITEMS BEING REMOVED, EXTEND EXISTING HANGERS OR PROVIDE NEW HANGERS AND SUPPORTS AS REQUIRED TO RE-SUPPORT ITEMS FROM BUILDING STRUCTURE.
9. CAP THE OPEN END OF EXISTING PIPING AND EQUIPMENT IMMEDIATELY AFTER OPENING PIPE/EQUIPMENT CONNECTIONS TO PREVENT DEBRIS FROM CONTAMINATING EXISTING-TO-REMAIN ITEMS AND TO PREVENT SEWER GASES FROM ENTERING INTO THE INTERIOR OF THE BUILDING.
10. PROVIDE CUTTING OF ANY SHAFT, CEILING, FLOOR OR WALL AS REQUIRED FOR THE REMOVAL OF PIPING AND EQUIPMENT. ANY SHAFT, CEILING, FLOOR OR WALL OPENING CREATED TO IMPLEMENT PIPE DEMOLITION OR CREATED BY REMOVED PIPE OR FIXTURES SHALL BE REPAIRED BY THE CONTRACTOR. FILL OPENINGS WITH THE SAME MATERIAL AS THE WALL OR FLOOR. FINISH FLUSH TO THE EXISTING SURFACE.
11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT PLUMBING AND BUILDING CODES.
12. EXISTING HANGERS SHALL BE MODIFIED TO FACILITATE NEW ABOVE CEILING WORK.
13. EQUIPMENT NOT BE REUSED SHALL BE REMOVED IN ITS ENTIRETY AS REQUIRED TO FACILITATE NEW WORK.

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READING TERMINAL MARKET CAPITAL IMPROVEMENTS

NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
WKK	JMJ	MJM

DATE: 02/03/23

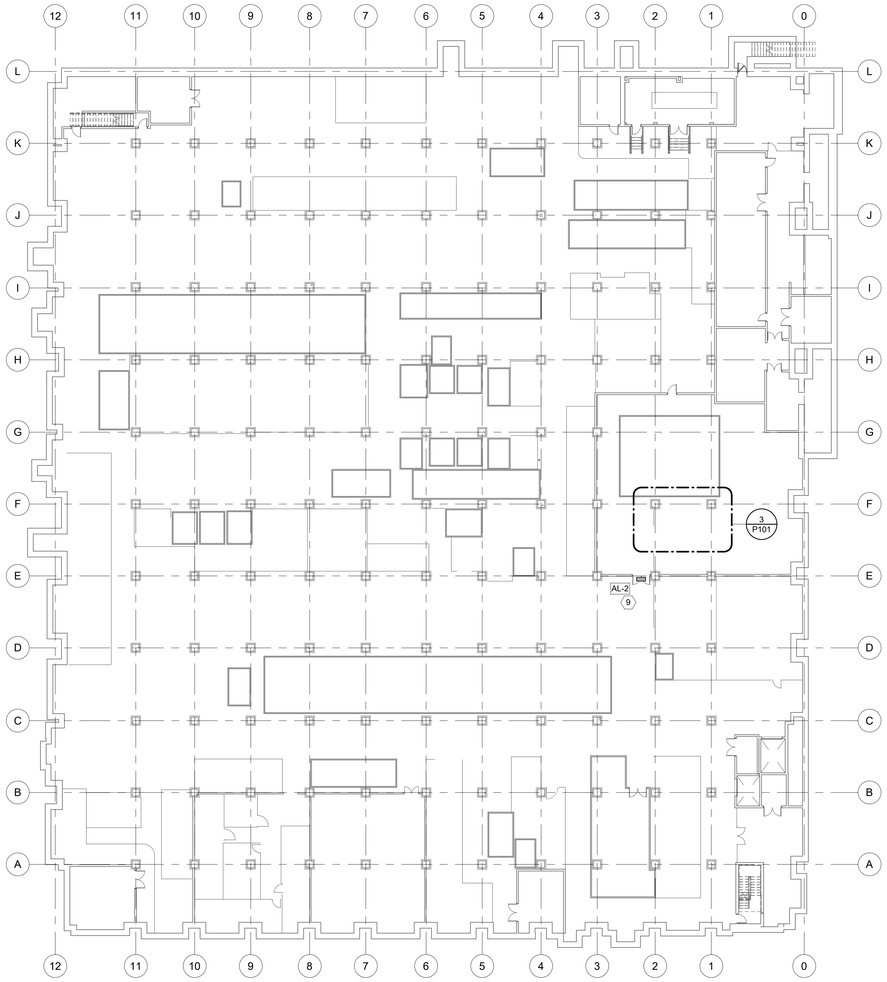
DRAWING TITLE: PLUMBING

LEGEND, GENERAL NOTES & ABBREVIATIONS

DRAWING NO.: P001

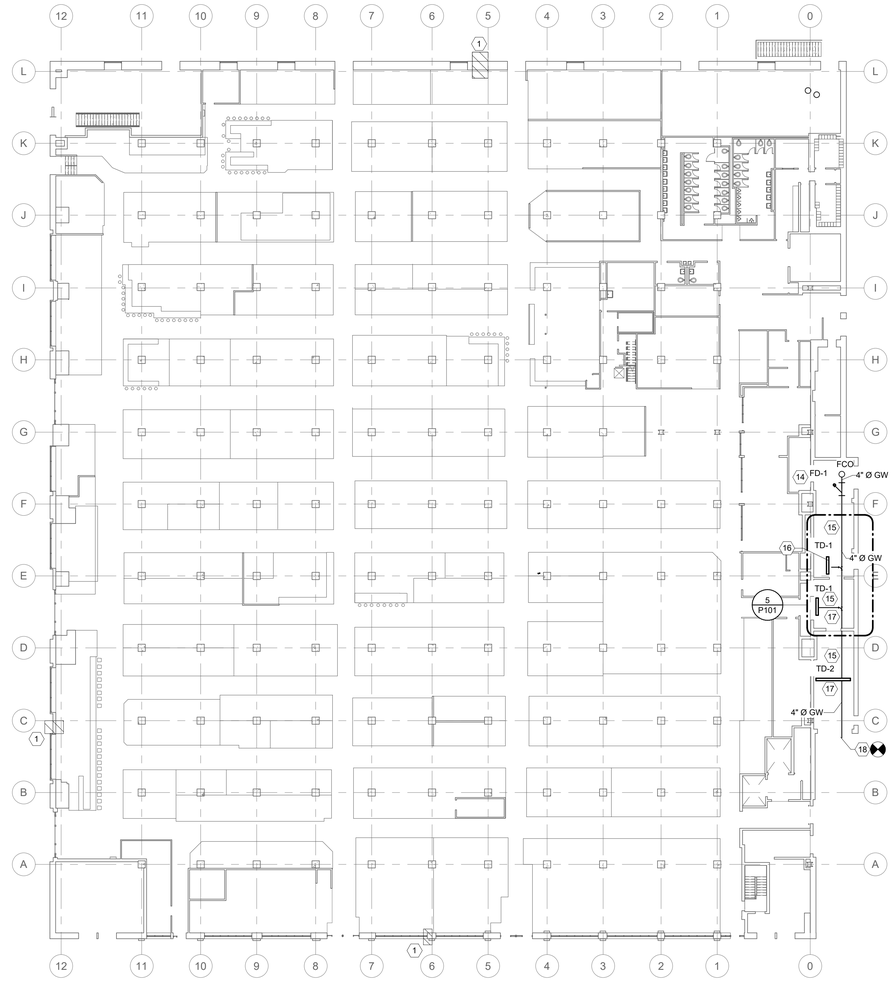
Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 2:11:23 PM



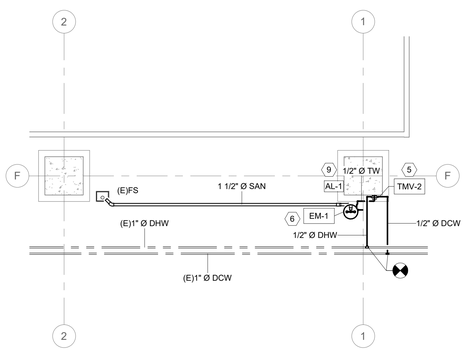
1 PLUMBING BASEMENT NEW WORK KEY PLAN

SCALE: 3/64" = 1'-0"



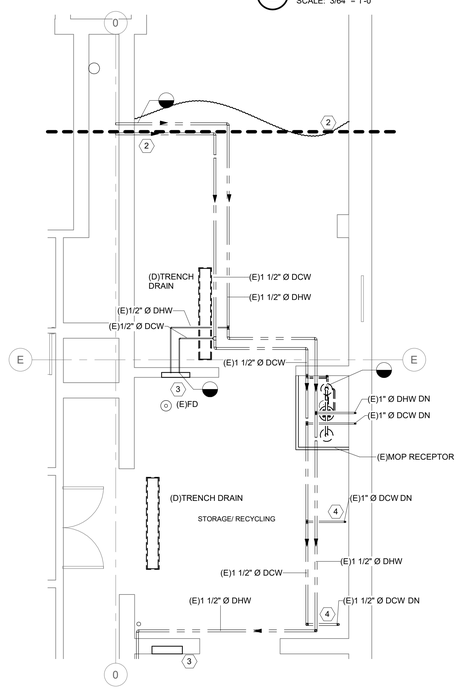
2 PLUMBING GROUND FLOOR NEW WORK KEY PLAN

SCALE: 3/64" = 1'-0"



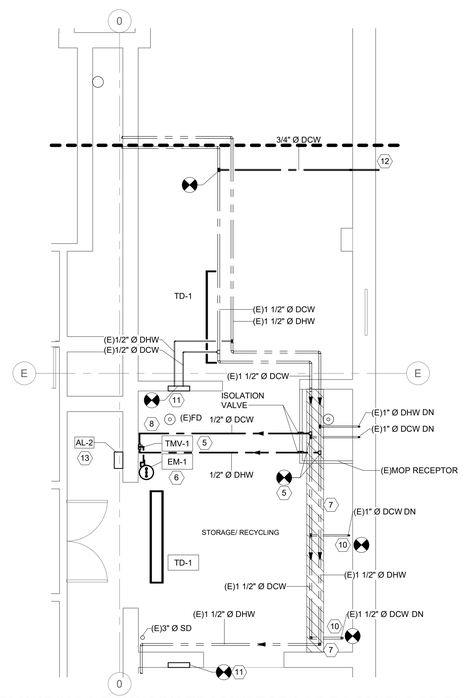
3 PLUMBING NEW WORK MECHANICAL ROOM FLOOR PLAN

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



4 PLUMBING DEMLITION TRASH/STORAGE ROOM FLOOR PLAN

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



5 PLUMBING NEW WORK TRASH/STORAGE ROOM FLOOR PLAN

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

GENERAL NEW WORK NOTES

1. LABEL ALL NEW PIPING, VALVES, AND EQUIPMENT. PROVIDE LABELS WITH DIRECTIONAL ARROWS.
2. CLEAN ALL EXISTING WALL OPENINGS, PROVIDE SLEEVE AND MECHANICAL SEAL. SEAL AROUND PIPE SLEEVE WITH 20-YEAR SILICONE CAULK.
3. INSULATE ALL NEW PIPING, FITTINGS, VALVES, AND PIPING ACCESSORIES. INSULATE EXISTING PIPING WHERE NEW WORK WAS PERFORMED.
4. REMOVE ANY EXCAVATED MATERIAL FROM SITE THAT IS NOT REQUIRED FOR NEW WORK. PROVIDE PIPE BEDDING AND BACKFILL MATERIAL, BACK FILL THE EXCAVATION UP TO THE LEVEL REQUIRED INSTALL STONE BASE AND POUR NEW CONCRETE SLAB.

SHEET KEYNOTES

1. DISCONNECT DOMESTIC COLD WATER PIPING FROM EXISTING WALL HYDRANT AND REMOVE EXISTING WALL HYDRANT. REMOVE WATER PIPING BACK INTO BASEMENT AND TEMPORARILY CAP DOMESTIC COLD WATER FOR NEW WORK. PROVIDE NEW RECESSED NON-FREEZE WALL HYDRANT WITH LOCKABLE COVER. REMOVE CAP FROM DOMESTIC COLD WATER PIPING. PROVIDE NEW BALL VALVE AND CONNECT TO HYDRANT. CAULK AND REPAIR SURROUNDING MASONRY WEATHERTIGHT TO MATCH EXISTING.
2. DISCONNECT DOMESTIC COLD WATER PIPING FROM TRAP PRIMER DEVICE. REMOVE 1/2" Ø COLD WATER PIPING FROM THE OUTLET OF THE TRAP PRIMER DEVICE TO WITHIN 6" OF THE FLOOR AND CAP. REMOVE COLD WATER PIPING, FITTINGS, VALVE, WYE HOSE FITTING AND PIPE ACCESSORIES TO OVERHEAD, BACK TO ACTIVE BRANCH AND CAP FOR NEW WORK. REMOVE HOSE THAT EXTENDS OVERHEAD TO THE OTHER SIDE OF THE ROOM.
3. DISCONNECT HOT AND COLD WATER PIPING FROM THE HOSE STATION. REMOVE AND CAP PIPING OVERHEAD FOR NEW WORK. REMOVE EXISTING HOT/COLD WATER HOSE STATION.
4. REMOVE DOMESTIC COLD WATER PIPE, INSULATION, FITTINGS, VALVE AND PIPE ACCESSORIES. REMOVE PIPING TO OVERHEAD AND CAP FOR NEW WORK.
5. PROVIDE 1/2" Ø DOMESTIC COLD WATER AND 1/2" Ø DOMESTIC HOT WATER PIPING AND CONNECT TO EXISTING OVERHEAD DOMESTIC WATER PIPING. PROVIDE ALL PIPING SUPPORTS, INSULATION, AND ACCESSORIES. AND CONNECT TO THERMOSTATIC MIXING VALVE.
6. PROVIDE WALL MOUNTED EMERGENCY FIXTURE (EM-1); FLOW SWITCH (FS-1) AND LOCKABLE (OPEN) BALL VALVE. EXTEND 1 1/4" Ø FIXTURE DRAIN TO 6" ABOVE THE FLOOR AND EXTEND ALONG THE WALL TOWARDS THE EXISTING FLOOR DRAIN. MOUNT FLOW SWITCH (FS-1) AND BALL VALVE AS CLOSE TO THE FIXTURE AS POSSIBLE AS NOT TO CREATE A DEADLEG.
7. REPLACE EXISTING HOT AND COLD WATER PIPE INSULATION AND INSTALL JACKETING WITHIN HATCHED AREA.
8. PROVIDE THERMOSTATIC MIXING VALVE. CONNECT 1/2" Ø DOMESTIC COLD AND HOT WATER TO THE INLETS OF THE MIXING VALVE. EXTEND 1/2" Ø TEPID WATER FROM THE OUTLET OF THE MIXING VALVE TO THE EMERGENCY FIXTURE. MODIFY THE EXISTING DOMESTIC HOT AND COLD WATER PIPING AS REQUIRED TO CONNECT NEW PIPING. MOUNT THE MIXING VALVE AND ENCLOSURE AT 54" ABOVE FINISHED FLOOR. PROVIDE LOCKABLE (OPEN) BALL VALVES AND UNIONS ON THE INLETS/OUTLET OF THE MIXING VALVE.
9. PROVIDE ALARMS (AL-1 AND AL-2). MOUNT ALARM (AL-1) ON THE COLUMN ABOVE EMERGENCY FIXTURE (EM-1). MOUNT ALARM (AL-2) ABOVE THE MECHANICAL ROOM DOOR. WIRING BETWEEN ALARMS AND THE FLOW SWITCH IS BY THE ELECTRICAL CONTRACTOR AND SHALL BE INSTALLED PER N.E.C.
10. PROVIDE HOSE BIBB (HB) WITH VACUUM BREAKER, PIPING, FITTINGS, BALL VALVE, PIPE ACCESSORIES, INSULATION AND PVC JACKET. MODIFY AND EXTEND 3/4" Ø DOMESTIC COLD-WATER PIPING FROM OVERHEAD AND CONNECT TO HOSE BIB. OWNER TO PROVIDE HOSE.
11. PROVIDE HOT AND COLD WATER HOSE STATION WITH VACUUM BREAKER, SPRAY NOZZLE, PIPING, BALL VALVE, INSULATION AND PVC JACKET. REMOVE CAPS FROM HOT AND COLD WATER PIPING OVERHEAD, MODIFY PIPING AS REQUIRED, DROP AND CONNECT TO HOSE STATION. OWNER TO PROVIDE HOSE.
12. PROVIDE HOSE BIBB (HB) WITH VACUUM BREAKER, RECESSED NON-FREEZE WALL HYDRANT (NFWH) WITH VACUUM BREAKER AND LOCKABLE COVER, PIPING, FITTINGS, BALL VALVE, PIPE ACCESSORIES, INSULATION AND PVC JACKET. MODIFY AND EXTEND 3/4" Ø DOMESTIC COLD-WATER PIPING FROM OVERHEAD AND CONNECT TO HOSE BIB AND NON-FREEZE WALL HYDRANT. CORE DRILL EXTERIOR WALL. PROVIDE WALL SLEEVE AND MECHANICAL SEAL, SEAL AROUND SLEEVE WITH 20-YEAR SILICONE CAULK. OWNER TO PROVIDE HOSE.
13. PROVIDE ALARM (AL-2). MOUNT AT 8'-0" ABOVE FINISHED FLOOR. CORE DRILL WALL TO EXTEND WIRING BETWEEN THE FLOW SWITCH AND ALARM (AL-2). WIRING BY E.C. AND INSTALLED PER N.E.C.
14. EXCAVATE CONCRETE AND SOIL AS REQUIRED TO REMOVE EXISTING FLOOR DRAIN, CLEANOUT AND ASSOCIATED PIPING. PROVIDE NEW FLOOR DRAIN, CLEANOUT, IN-LINE TRAP SEAL AND GREASE WASTE PIPING. FIELD VERIFY THE LOCATION OF THE EXISTING PIPING.
15. EXCAVATE CONCRETE AND SOIL AS REQUIRED TO REMOVE EXISTING TRENCH DRAIN, GRATES, AND ASSOCIATED PIPING.
16. REMOVE EXISTING TRENCH DRAIN, GRATES, AND ASSOCIATED 4" Ø PIPING. PROVIDE NEW TRENCH DRAIN. GRATES, 4" Ø GREASE WASTE PIPING. INSTALL NEW TRENCH DRAIN OUTSIDE OF THE RAISED CONCRETE SLAB FOOTPRINT. SUPPORT RAISED SLAB DURING CONSTRUCTION. ADJUST THE LOCATION OF THE PIPING AS REQUIRED TO INSTALL TRENCH DRAIN. MODIFY EXISTING ABOVE FLOOR DRAIN PIPE AND DISCHARGE TO NEW TRENCH DRAIN.
17. REMOVE EXISTING TRENCH DRAIN, SLOTTED AND SOLID GRATES, AND ASSOCIATED 4" Ø PIPING. PROVIDE NEW TRENCH DRAIN, SLOTTED AND SOLID GRATES, AND 4" Ø GREASE WASTE PIPING.
18. REMOVE AND REPLACE EXISTING 4" Ø PIPING TO THIS POINT. CONNECT TO EXISTING PIPING

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GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
WKK	JMJ	MJM

DATE: 02/03/23

DRAWING TITLE: PLUMBING

DOMESTIC NEW WORK FLOOR PLANS

DRAWING NO.: P101

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

SCALE: 3/64" = 1'-0"

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Project Number: 071274
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EMERGENCY FIXTURE SCHEDULE

MARK	FIXTURE TYPE	TW CONNECTION	FIXTURE BASIS OF DESIGN		FLOW SWITCH					ALARM			REMARKS
			MANUFACTURER	MODEL	MARK	SIZE	MANUFACTURER	MODEL	ELECTRICAL	MANUFACTURER	MODEL	ELECTRICAL	
AL-1	VISUAL ONLY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GUARDIAN	AP275-215MOD	120/1/60 0.48A	FLASHING LIGHT, NO CORD
AL-2	AUDIBLE/VISUAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GUARDIAN	AP275-250MOD	120/1/60 0.48A	FLASHING LIGHT, HORN, NO CORD
EM-1	EYE/FACE WASH	1/2"	GUARDIAN	G1760-BC	FS-1	1/2"	GUARDIAN	AP285-617	N/A	N/A	N/A	N/A	WALL MTD. SS WITH BOWL COVER

PLUMBING MIXING VALVE SCHEDULE

MARK	FLOW RATE		DCW INLET (IN)	DHW INLET (IN)	SYSTEM PRESSURE (PSI)	MANUFACTURER	MODEL	REMARKS
	MIN (GPM)	MAX (GPM)						
TMV-1	3	8	1/2"	1/2"	125	GUARDIAN	G6020	1,2,3,4
TMV-2	3	8	1/2"	1/2"	125	GUARDIAN	G6020	1,2,3,4

REMARKS:
1. THERMOSTATIC MIXING VALVE SHALL BE PROVIDED WITH COLD WATER BYPASS AND BE ANSI/ASSE 1071 CERTIFIED.
2. CONTRACTOR SHALL ADJUST AND SET TEPID WATER SUPPLY TEMPERATURE TO 80 DEGREE F.
3. PROVIDE WITH MOUNTING BRACKET AND STAINLESS STEEL HARDWARE.
4. PROVIDE WITH MANUFACTURER OUTLET TEMPERATURE GAUGE. VALVE SHALL BE ANSI/ASSE 1017 CERTIFIED.

FLOOR DRAIN SCHEDULE

MARK	FIXTURE TYPE	OUTLET (IN)	BODY	STRAINER	LOCATION	BASIS OF DESIGN		REMARKS
						MANUFACTURER	MODEL	
FD-1	FLOOR DRAIN	4"	CAST IRON	CAST IRON	STORAGE/RECYCLING	ZURN	Z-520-Y	
TD-1	TRENCH DRAIN	4"	CAST IRON	CAST IRON	VARIES	ZURN	P12-HDPE	
TD-2	TRENCH DRAIN	4"	CAST IRON	CAST IRON	TRASH COMPACTOR	ZURN	P12-HDPE	

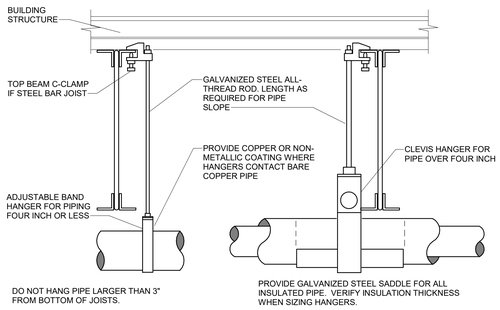
PLUMBING MATERIAL SCHEDULE

SERVICE	MATERIAL	SIZE RANGE	MAXIMUM DESIGN		JOINT TYPE	ISOLATION VALVE TYPE	REMARKS
			PRESSURE (PSIG)	TEMPERATURE (°F)			
ABOVE GRADE							
DOMESTIC COLD WATER	TYPE L COPPER	> 2-1/2"	75	65	1 OR 2	1	
DOMESTIC HOT WATER	TYPE L COPPER	> 2-1/2"	75	140	1 OR 2	1	
DOMESTIC HOT WATER RETURN	TYPE L COPPER	> 2-1/2"	75	140	1 OR 2	1	
TEPID WATER	TYPE L COPPER	> 2-1/2"	150	80	1 OR 2	1	

JOINT TYPE	VALVE TYPE
TYPE 1: 95-5 SOLDER	TYPE 1: 2-PIECE BALL VALVE, FULL PORT
TYPE 2: PRESS COUPLED	TYPE 2: PLUG

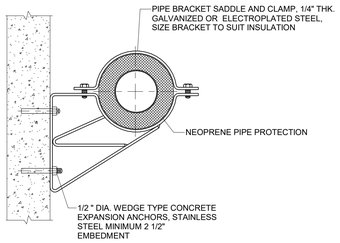
PLUMBING PIPE INSULATION SCHEDULE

SYSTEM TYPE	PIPE SIZE	INSULATION CONDUCTIVITY	THICKNESS
DOMESTIC COLD WATER	1"Ø AND SMALLER	0.21 - 0.28	1/2"
DOMESTIC COLD WATER	1 1/2"Ø AND LARGER	0.21 - 0.28	1"
DOMESTIC HOT WATER	1"Ø AND SMALLER	0.21 - 0.28	1"
DOMESTIC HOT WATER	1 1/2"Ø AND LARGER	0.21 - 0.28	1 1/2"
TEPID WATER SUPPLY/RETURN	1/2"Ø AND LARGER	0.21 - 0.28	1"

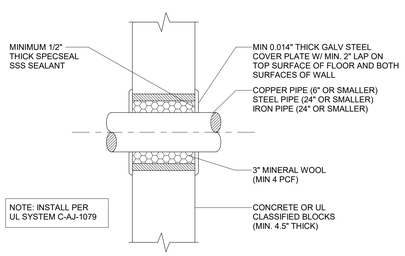


PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN DIRECTION. PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

1 PLUMBING PIPE HANGER
SCALE: NTS



2 WALL HUNG PIPE SUPPORT FOR INSULATED PIPE
SCALE: NTS



3 INTERIOR FIRE RATED WALL OR FLOOR PENETRATION
SCALE: NTS

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DRAWING TITLE: PLUMBING DETAILS & SCHEDULES

DRAWING NO.: P501

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Project Number: 071274
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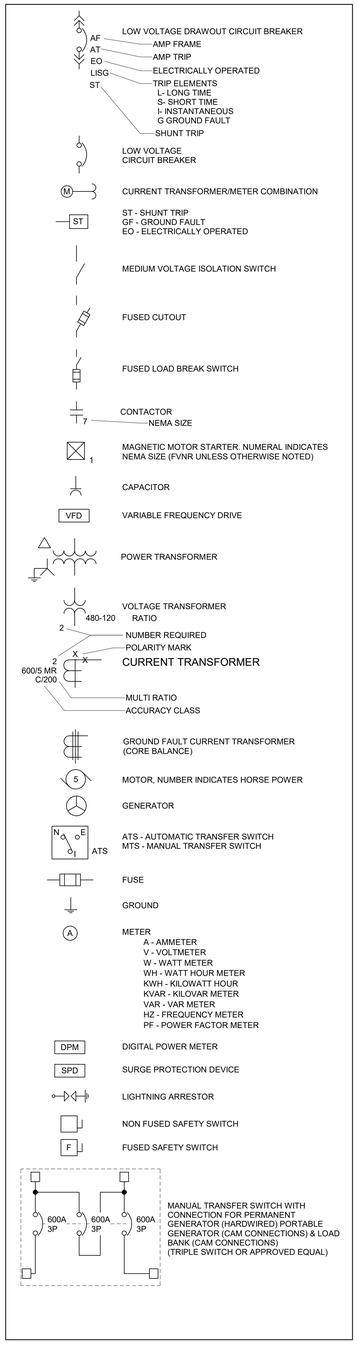
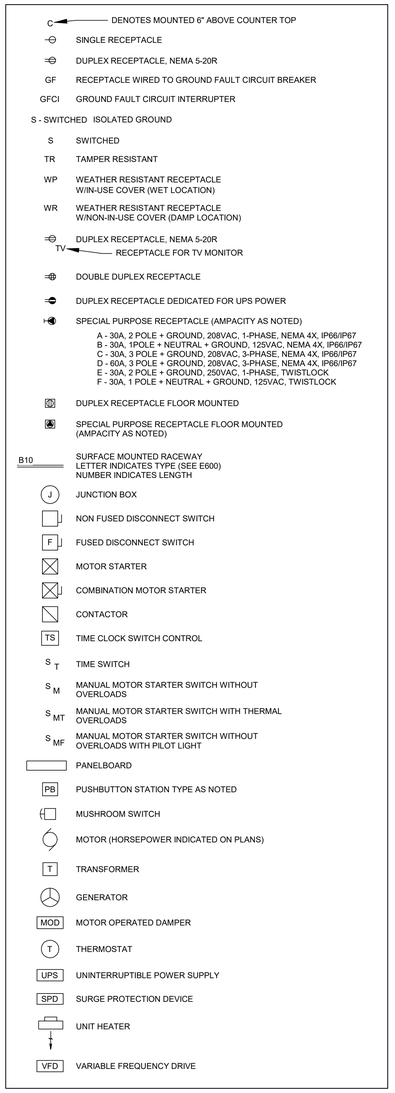
ABBREVIATIONS

(D)	DEMOLISH
(E)	EXISTING
A or AMP	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMMETER SELECTOR SWITCH AMMETER SELECTOR SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
DISC	DISCONNECT
DIV	DIVISION
DS	DISCONNECT SWITCH
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING(CONDUIT) ELECTRICAL METALLIC TUBING(CONDUIT)
EP	EXPLOSION PROOF
EUH	ELECTRIC UNIT HEATER
F/T	FEED THROUGH
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FRE	FIBERGLASS REINFORCED EPOXY
FU	FUSE
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING - VENTILATION - AIR CONDITIONING
IG	ISOLATED GROUND
IND	INDUSTRIAL
JIC	JOINT INDUSTRIAL COUNCIL
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LA	LIGHTNING ARRESTOR
LC	LIGHTING CONTACTOR
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MOA	MULTI OUTLET ASSEMBLY
MOD	MOTOR OPERATED DAMPER
MS	MOTOR STARTER
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
No	NUMBER
PMT	PAD MOUNTED TRANSFORMER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
RECP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL(CONDUIT)
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE
SC	SURGE CAPACITOR
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
TC	CABLE TRAY - CABLE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VS	VOLTMETER SELECTOR SWITCH
W	WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
1-PH	SINGLE PHASE
3-PH	THREE PHASE

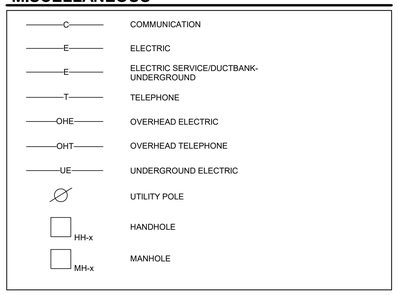
ONE LINE DIAGRAM



GENERAL POWER



MISCELLANEOUS



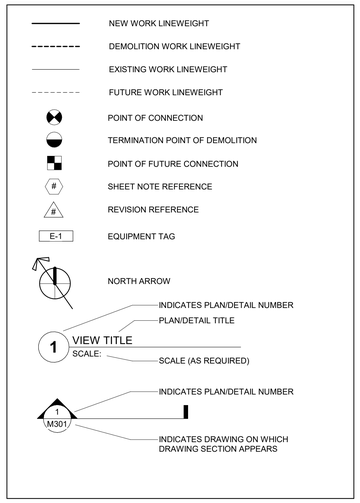
GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70) AS ADOPTED AND AMMENDED BY PHILADELPHIA ELECTRICAL CODE AND THE THE COMMONWEALTH OF PENNSYLVANIA.
2. ALL ELECTRICAL WORK SHALL BE PROPERLY GROUNDED AND SHALL MEET ALL REQUIREMENTS OF THE APPLICABLE SECTION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ANY AUTHORITIES HAVING JURISDICTION.
3. DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER DIVISIONS/TRADES TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR SHALL COORDINATE LOCATION OF FIXTURES, DEVICES, ETC WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
4. ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS ARE FOR BACKGROUND INFORMATION ONLY. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION WALLS AND CURBS. REFER TO EQUIPMENT DRAWINGS FOR ACTUAL LOCATION OF EQUIPMENT.
5. EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON THE CERTIFIED MANUFACTURER'S DRAWINGS OF RESPECTIVE EQUIPMENT. CONDUITS SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
6. WALL AND FLOOR PENETRATIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE FIRESTOP AS REQUIRED FOR ALL PENETRATIONS MADE FOR ELECTRICAL WORK.
7. COORDINATE THE COLORS OF WIRING DEVICES AND FACEPLATES WITH THE ARCHITECT.
8. EQUIPMENT AND DEVICES SHALL MATCH THE BUILDING STANDARD.

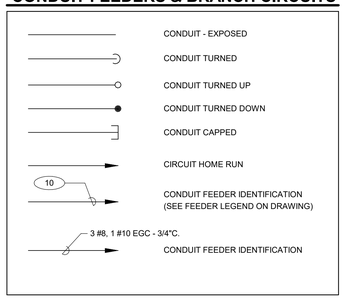
WIRING METHODS

1. UNDERGROUND
   A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONCRETE ENCASED AND DIRECT BURIED CONDUIT SHALL BE SCHEDULE 40 PVC. WHERE CONDUITS PASS THROUGH GRADE, THROUGH CONCRETE PADS, OR THROUGH BUILDING FOUNDATION WALLS OR FLOOR SLABS CONDUIT SHALL BE PVC COATED.
2. OUTDOORS
   A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONDUIT INSTALLED OUTDOORS SHALL BE GALVANIZED RIGID STEEL AND FLEXIBLE CONNECTIONS SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
3. INDOORS
   A. IN FINISHED AREAS ALL RACEWAY AND WIRING SHALL BE CONCEALED AND BOXES RECESSES. WIRING INSTALLED IN MASONRY WALLS SHALL BE EMT OR GALVANIZED RIGID STEEL. WIRING INSTALLED IN STUD WALL CAVITIES OR ABOVE HUNG CEILINGS MAY BE TYPE MC CABLE OR EMT.
   B. IN UNFINISHED AREAS SUCH AS MECHANICAL AND ELECTRICAL ROOMS WIRING SHALL BE INSTALLED IN EMT.
   C. WIRING IN THE CRAWLSPACE SHALL BE INSTALLED IN RIGID METAL CONDUIT.

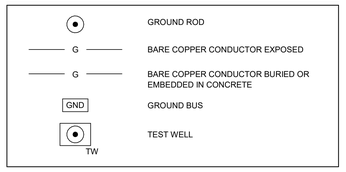
LINES & REFERENCE SYMBOLS



CONDUIT FEEDERS & BRANCH CIRCUITS



GROUNDING



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GENERAL PACKAGE

PROJECT NUMBER: 071274

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DRAWING TITLE: ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS

DRAWING NO.: E001

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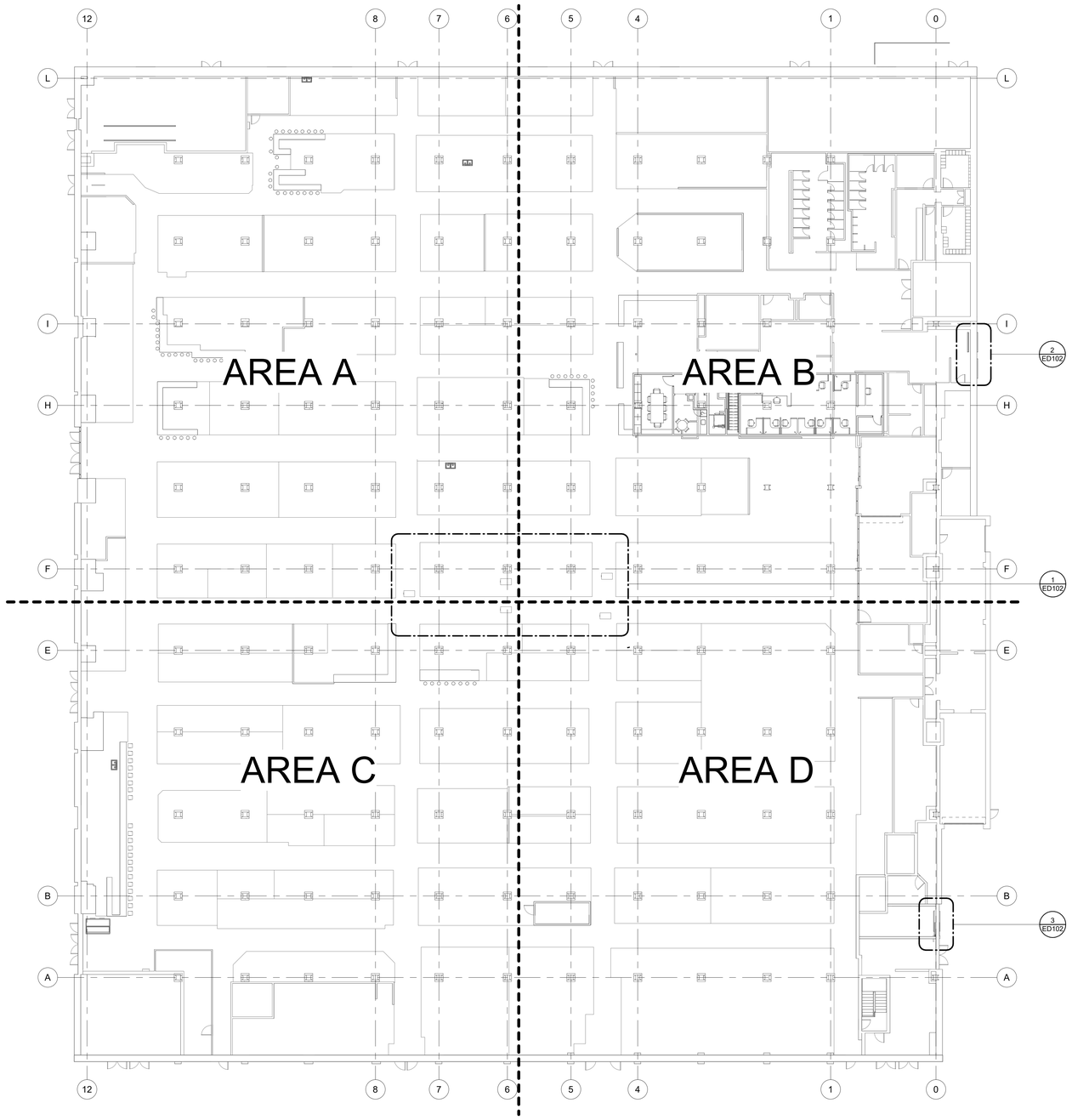
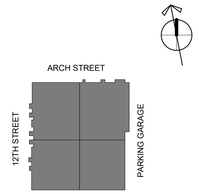


1 **ELECTRICAL DEMOLITION OVERALL PLAN**
SCALE: 1/16" = 1'-0"



KEY PLAN

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DRAWING TITLE: ELECTRICAL GROUND FLOOR DEMOLITION OVERALL PLAN

DRAWING NO.: ED101

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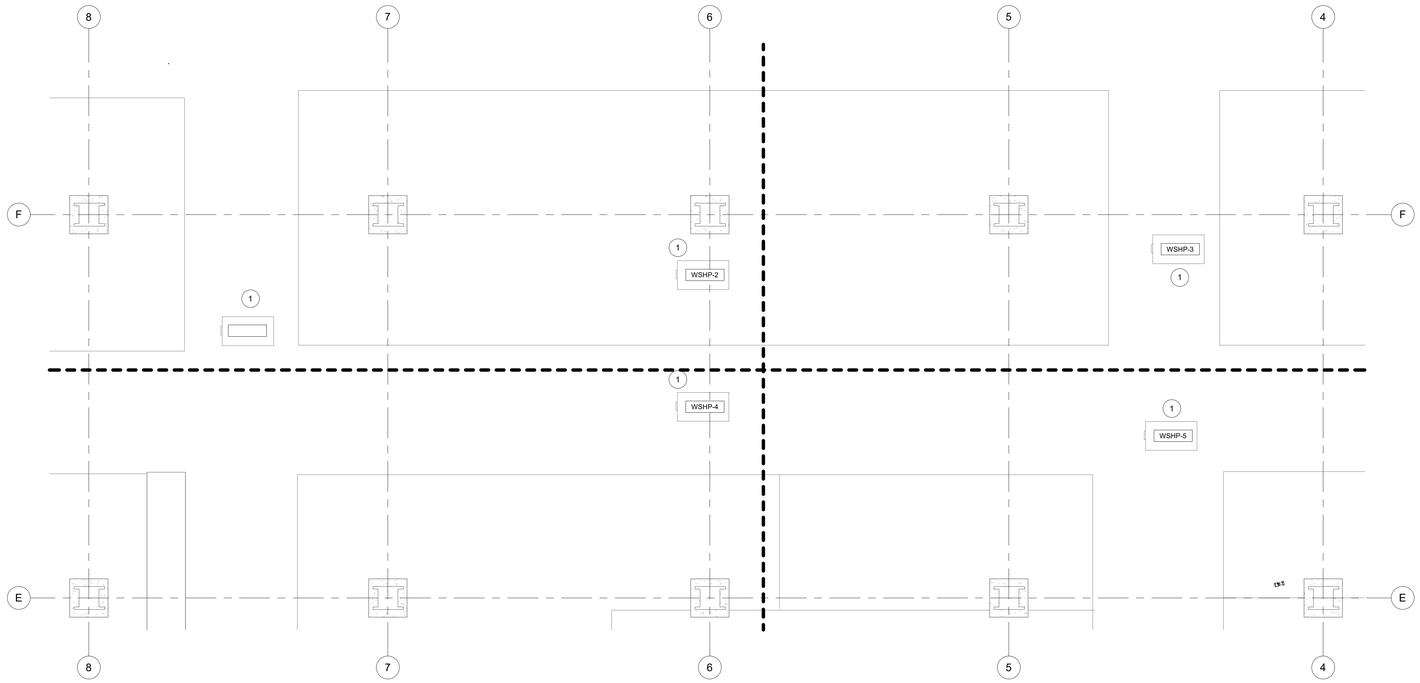


1 ELECTRICAL GROUND FLOOR DEMOLITION ENLARGED PLAN

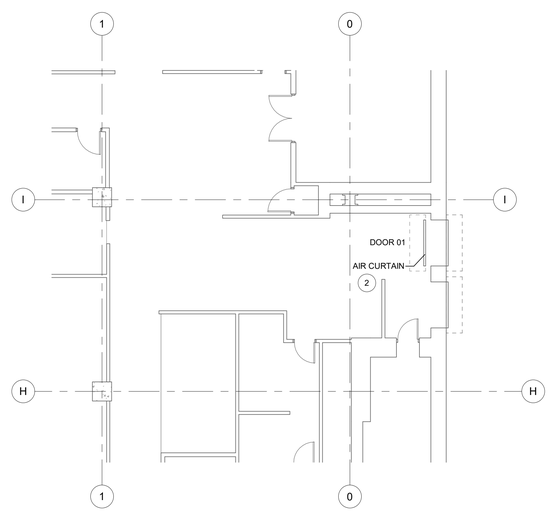
SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. SEE ELECTRICAL DRAWING E001 FOR GENERAL NOTES AND PROJECT INFORMATION.
2. NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OR DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE. CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER & ENGINEER.
3. ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
4. EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK.
5. EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER, SHALL BE PLACED IN A MUTUALLY ACCEPTED LOCATION.
6. PROCEDURE FOR FEEDERS AND BRANCH CIRCUITS TO BE REMOVED: CONDUIT AND SUPPORTS SHALL BE REMOVED TO THE PANEL OF ORIGIN OR THE BOUNDARY OF THE PROJECT AREA. WIRING SHALL BE REMOVED TO THE PANEL OF ORIGIN. WHERE EMPTY CONDUITS REMAIN, INSTALL A PULL STRING AND IDENTIFY AT BOTH ENDS.
7. PROCEDURE FOR FEEDERS AND BRANCH CIRCUITS TO BE RE-USED: REMOVE CONDUIT AND WIRING TO LOCATIONS WHICH AVOID CONFLICTS WITH NEW WORK. INSTALL JUNCTION BOXES, TAPE OFF CONDUCTORS AND IDENTIFY WITH PANEL AND CIRCUIT NUMBER.
8. WHERE PORTIONS OF EXISTING BRANCH CIRCUITS ARE REMOVED, MAINTAIN THE CONTINUITY OF CIRCUITING TO REMAINING DEVICES.
9. PROVIDE BLANK COVER PLATES AT OPEN BOXES WHERE EXISTING RECEPTACLES OR ELECTRICAL DEVICES ARE REMOVED FROM ENCLOSURES OR SURFACES NOT INDICATED TO BE REPAIRED OR REFINISHED.
10. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILINGS AND PARTITIONS.
11. ALL WORK SHALL BE PROPERLY IDENTIFIED AFTER DEMOLITION. UPDATE ALL PANEL SCHEDULES TO REFLECT EQUIPMENT AND CIRCUIT REMOVALS.

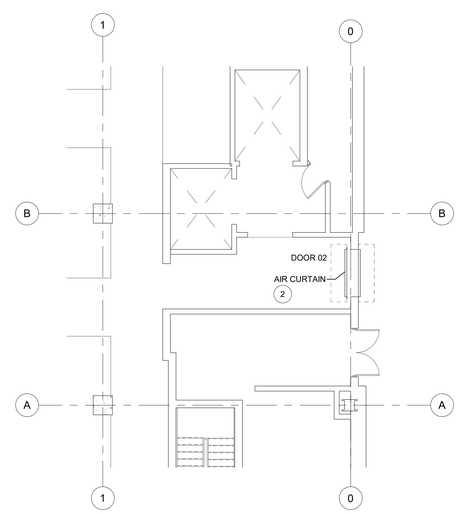
DEMOLITION SHEET KEYNOTES

1. DISCONNECT EXISTING WATER SOURCE HEAT PUMP (WSHP). REMOVE EXISTING CIRCUIT CONDUCTORS BACK TO SOURCE. WHERE NEW HVAC TERMINAL EQUIPMENT IS TO BE INSTALLED AT SAME LOCATION, EXISTING CONDUIT MAY BE REUSED TO THE EXTENT FEASIBLE. ALL UNUSED EXISTING CONDUIT SHALL BE REMOVED. EXISTING CIRCUIT TO BE REUSED.
2. DISCONNECT EXISTING AIR CURTAIN. REMOVE EXISTING CIRCUIT CONDUCTORS BACK TO SOURCE. WHERE NEW EQUIPMENT IS TO BE INSTALLED AT SAME LOCATION, EXISTING CONDUIT MAY BE REUSED TO THE EXTENT FEASIBLE. ALL UNUSED EXISTING CONDUIT SHALL BE REMOVED. EXISTING CIRCUIT TO BE REUSED.



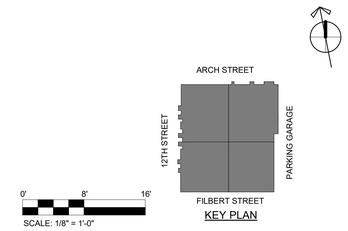
2 ELECTRICAL ENLARGED DEMOLITION PLAN - AREA B (AIR CURTAIN)

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



3 ELECTRICAL ENLARGED DEMOLITION PLAN - AREA D (AIR CURTAIN)

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



KEY PLAN

GANNETT FLEMING

Gannett Fleming, Inc.

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t 610 • 650 • 8156

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51 N TWELFTH STREET, PHILADELPHIA PA, 19107

READING TERMINAL MARKET CAPITAL IMPROVEMENTS

NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

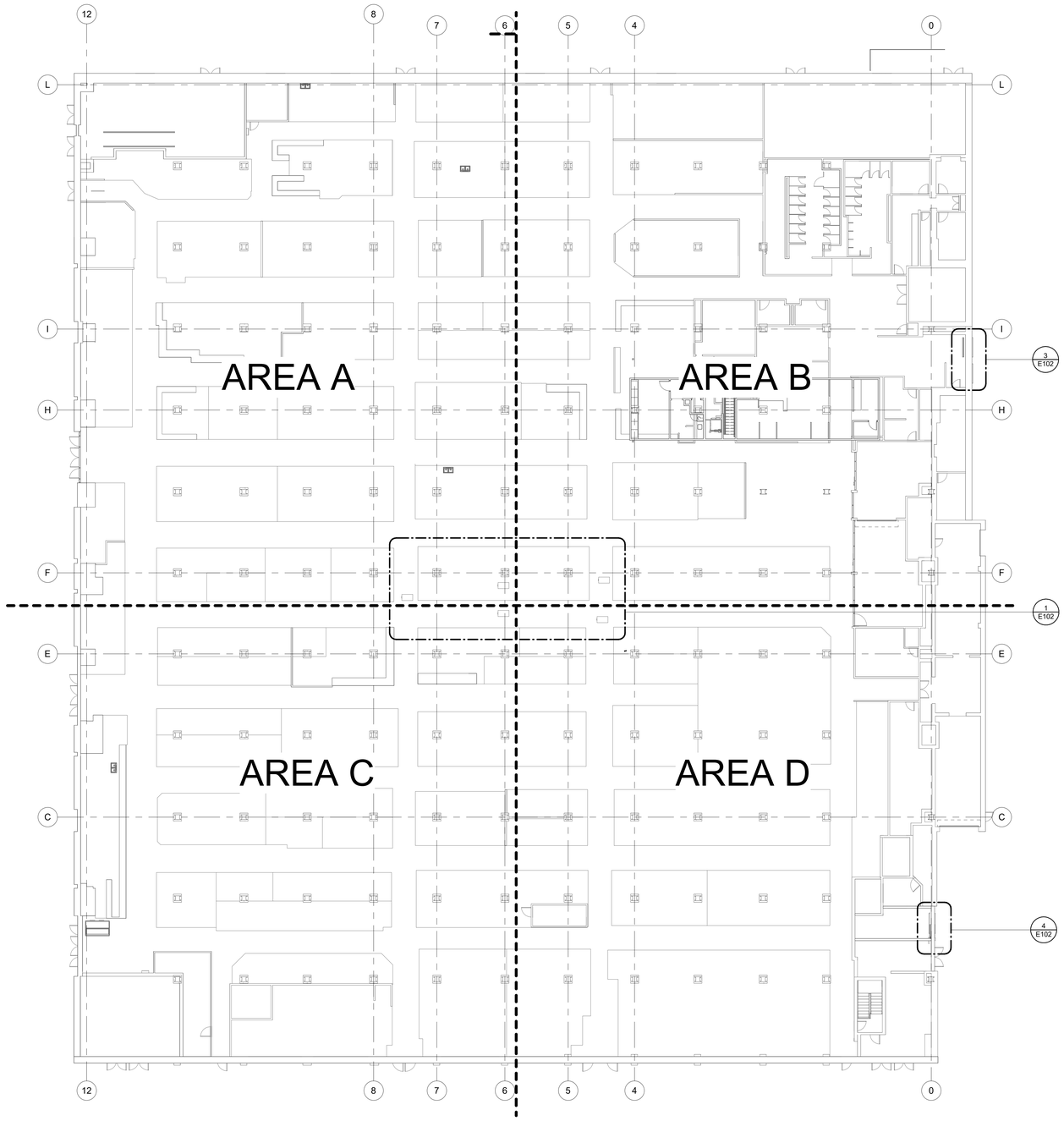
DESIGNED:	MODELED:	CHECKED:
FJR	FJR	RLP

DATE: 02/03/23

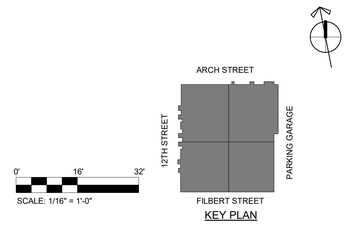
DRAWING TITLE: ELECTRICAL GROUND FLOOR ENLARGED DEMOLITION PLANS

DRAWING NO.: ED102

Local File:Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt
Project Number: 071274
2/3/2023 8:47:56 AM



1 **ELECTRICAL GROUND FLOOR OVERALL PLAN**
SCALE: 1/16" = 1'-0"



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READING TERMINAL MARKET CAPITAL IMPROVEMENTS

NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
FJR	FJR	RLP

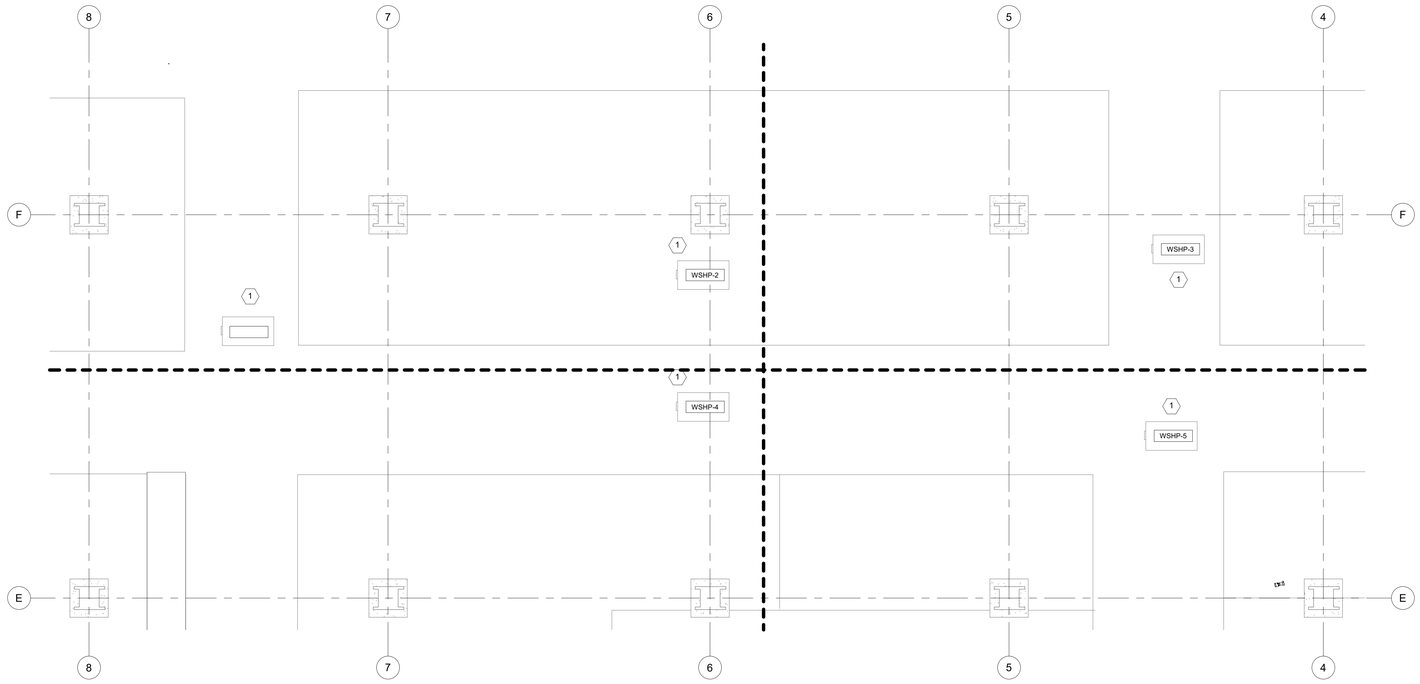
DATE: 02/03/23

DRAWING TITLE: ELECTRICAL GROUND FLOOR OVERALL PLAN

DRAWING NO.: E101

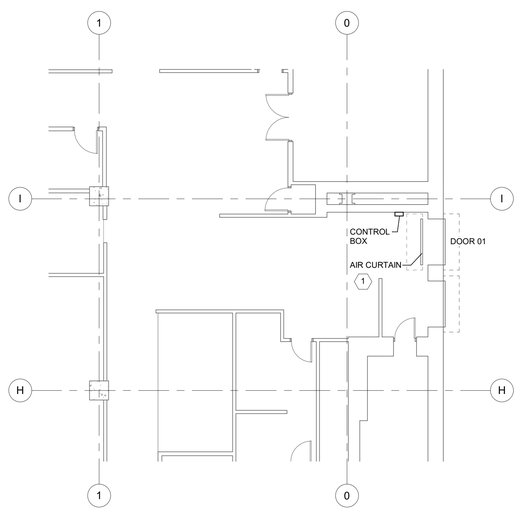
Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 8:47:52 AM



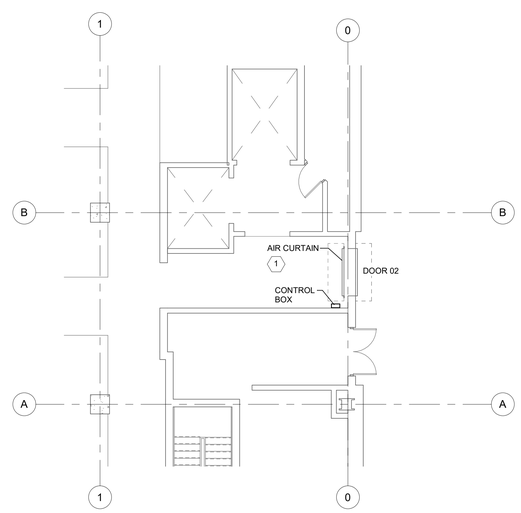
1 ELECTRICAL GROUND FLOOR NEW WORK ENLARGED PLAN

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



3 ELECTRICAL ENLARGED NEW WORK PLAN - AREA B (AIR CURTAIN)

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



4 ELECTRICAL ENLARGED NEW WORK PLAN - AREA D (AIR CURTAIN)

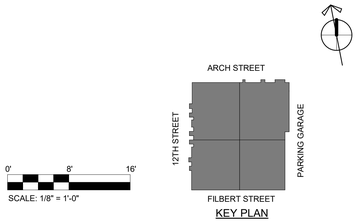
SCALE: 1/8" = 1'-0"

NEW WORK GENERAL NOTES

1. REFER TO DRAWING E001 FOR GENERAL NOTES AND WIRING METHODS.
2. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING IS NEW UNLESS NOTED OTHERWISE.

NEW WORK SHEET KEYNOTES

1. CONNECT NEW HEAT PUMP. REUSE EXISTING WIRING AND CONDUIT TO THE EXTENT FEASIBLE. EXTEND WIRING AND/OR CONDUIT AS NEEDED. REUSE EXISTING CIRCUIT.
2. CONNECT NEW AIR CURTAIN. REUSE EXISTING WIRING AND CONDUIT TO THE EXTENT FEASIBLE. EXTEND WIRING AND/OR CONDUIT AS NEEDED. REUSE EXISTING CIRCUIT. RELOCATE EXISTING CONDUITS, WIRING AND/OR EXISTING DEVICES THAT INTERFERE WITH THE NEW OVERHEAD DOOR ASSEMBLIES. COORDINATE WITH OWNER.



KEY PLAN

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READING TERMINAL MARKET CAPITAL IMPROVEMENTS

NO.	DATE	DESCRIPTION

REVISIONS

GENERAL PACKAGE

PROJECT NUMBER: 071274

DESIGNED:	MODELED:	CHECKED:
FJR	FJR	RLP

DATE: 02/03/23

DRAWING TITLE: ELECTRICAL GROUND FLOOR ENLARGED NEW WORK PLANS

DRAWING NO.: E102

Local File: Autodesk Docs://071274-RTM_Renovation_Project/071274_ReadTerminalMarket_MEP_R22.rvt

Project Number: 071274
2/3/2023 8:47:53 AM

READING TERMINAL MARKET
CAPITAL IMPROVEMENTS

READING TERMINAL MARKET

GENERAL	
G001	COVER SHEET
ARCHITECTURAL	
A201	FLOOR PLAN AND EXISTING DOOR PHOTOS
A202	DOOR SCHEDULE DOOR TYPES AND DETAILS
A203	DOOR DETAILS
ELECTRICAL	
E000	ELECTRICAL COVERSHEET
E400	ELECTRICAL FIRST FLOOR POWER & SYSTEMS PLAN

51 NORTH 12TH STREET,
PHILADELPHIA PA 19107

09/26/2022

GENERAL PACKAGE

EXTERIOR DOORS & STOREFRONT

VITETTA

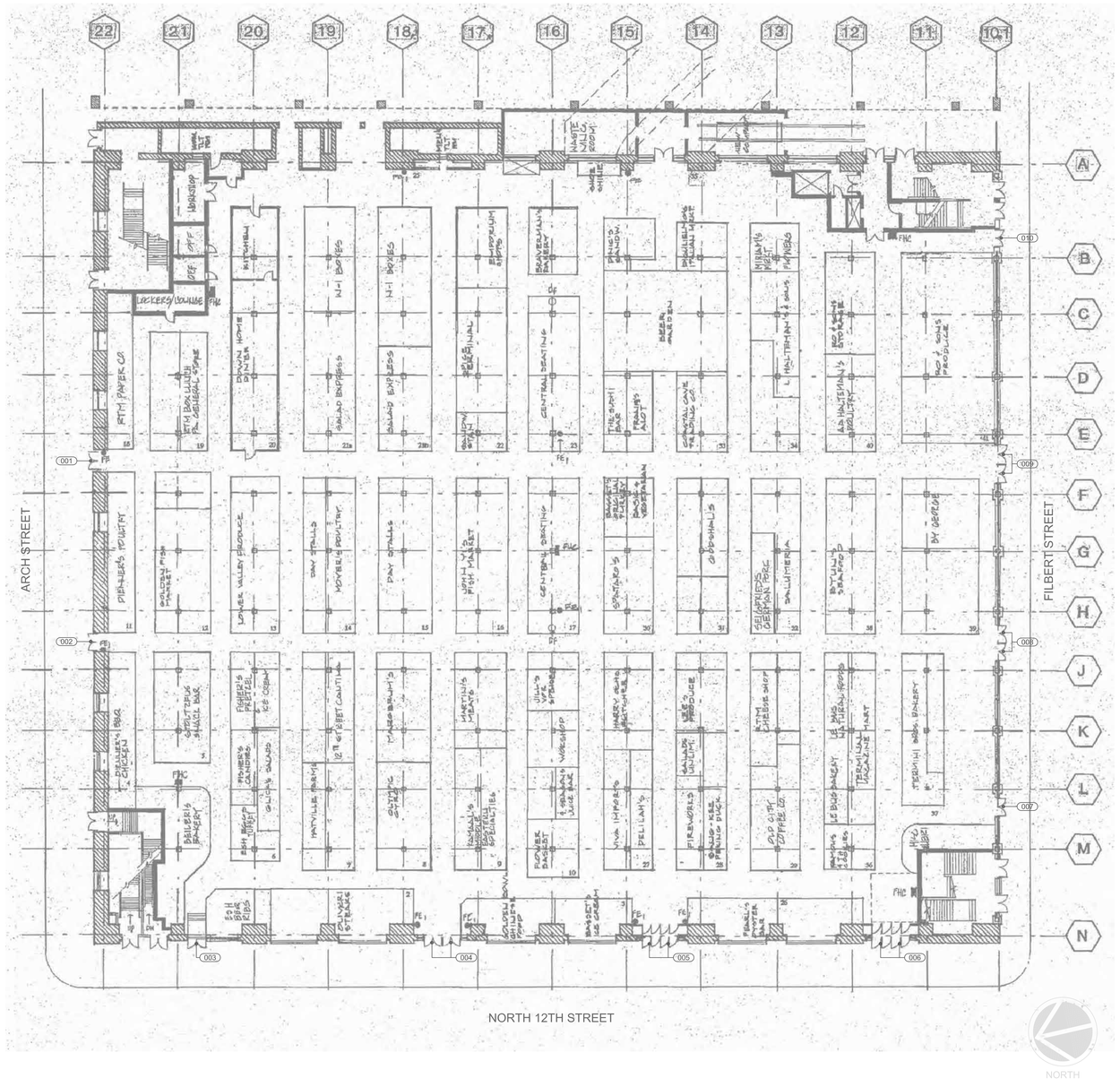
ARCHITECTURE ENGINEERING PLANNING INTERIOR DESIGN

105 CHESLEY DRIVE, SUITE 200
MEDIA, PENNSYLVANIA 19063
T 215.218.4747 F 215.405.2729

Central File: BM360_A_central_R20.rvt

NOTE:

1. PHOTOS SHOWN ARE OF EXISTING DOORS.
2. NEW DOORS SHALL ALL BE THE SAME DESIGN.



SCALE
1/16" = 1'-0"

FIRST FLOOR PLAN OF READING TERMINAL MARKET **02**

MARKET FLOOR PLAN ABOVE IS FOR LOCATION OF DOORS ONLY. SEE ELEVATIONS BELOW FOR NUMBER OF DOORS AT EACH OPENING.

001 002
DOOR TYPE - A & A1
ALUMINUM
BASE BID: REPLACE DOORS ONLY.
VIT ALT # 1: REPLACE FRAME & TRANSOM. LOUVER & FRAME TO REMAIN

003
DOOR TYPE - B
ALUMINUM
BASE BID: REPLACE DOORS ONLY.
VIT ALT # 2: REPLACE FRAME AND ALL GLASS/FRAME IN ENTIRE OPENING.

004
DOOR TYPE - C
ALUMINUM
BASE BID: REPLACE 4 DOORS ONLY.
VIT ALT # 2: REPLACE SIDELIGHTS, FRAME & ALL WINDOWS IN ENTIRE OPENING.

005 006
DOOR TYPE - C1
ALUMINUM
BASE BID: REPLACE 4 DOORS ONLY.
VIT ALT # 2: REPLACE SIDELIGHTS, FRAME & ALL WINDOW IN ENTIRE OPENING

REPAINT WOOD FRAME & SASH TO REMAIN.

007
DOOR TYPE - D
ALUMINUM
BASE BID: REPLACE DOOR ONLY.
VIT ALT # 3: REPLACE SIDELIGHTS, FRAME, SIDELIGHT & TRANSOM OPENING. EXISTING WOOD FRAME AND SASH TO BE REPAINTED.

REPAINT WOOD FRAME & SASH TO REMAIN.

008
DOOR TYPE - E
ALUMINUM
BASE BID: REPLACE 2 DOORS, FRAMES AND COLUMNS AT EACH OPENING.
VIT ALT # 3: REPLACE SIDELIGHTS, FRAME, SIDELIGHT & TRANSOM GLASS.

009
DOOR TYPE - F
ALUMINUM
REPAINT ALL WOOD FRAME & SASH TO REMAIN.

REPAINT ALL WOOD FRAME & SASH TO REMAIN.

010
DOOR TYPE - G
ALUMINUM
BASE BID: REPLACE DOOR.
VIT ALT # 3: REPLACE FRAME, SIDELIGHTS & TRANSOM.

SCALE
NONE

EXISTING DOORS TO BE REPLACED - PHOTOS **01**

VITETTA
ARCHITECTURE ENGINEERING PLANNING INTERIOR DESIGN
105 CHESLEY DRIVE, SUITE 200
MEDIA, PENNSYLVANIA 19063
T 215.218.4747 F 215.405.2729

CONSULTANTS

SEAL

PROJECT # 6328.00

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION

DO NOT SCALE DRAWINGS
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PROJECT TITLE

READING TERMINAL MARKET
RENOVATION PROJECT
DOOR & FRAME REPLACEMENT
51 NORTH 12TH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

FLOOR PLAN AND EXISTING DOOR PHOTOS

SCALE AS NOTED
DRAWN
CHECKED
APPROVED
DATE SEPTEMBER 26, 2022

REVISIONS

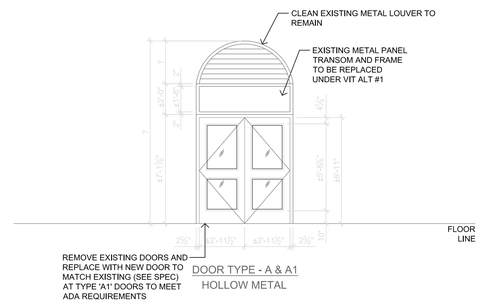
SYMBOL	DATE	DESCRIPTION

DRAWING #

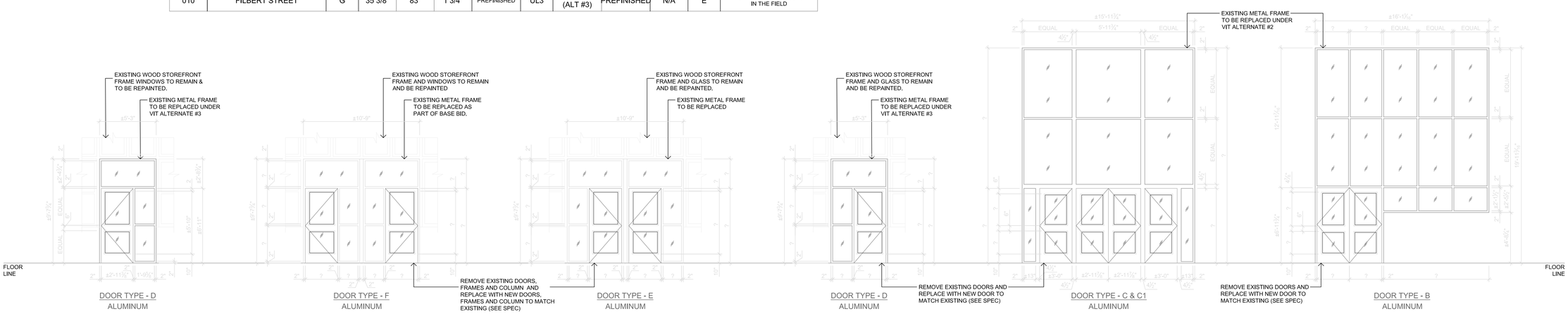
A-201

DOOR SCHEDULE

NO.	LOCATION	TYPE	SIZE			FINISH	GLASS	FRAME		FIRE RATING	HDW SET	REMARKS
			WIDTH	HEIGHT	THICK			TYPE	FINISH			
001	ARCH STREET	A1	35 1/2" (PAIR)	83"	1 3/4"	PREFINISHED	UL3	HM (ALT #1)	PREFINISHED	N/A	A	VERIFY ALL DIMS IN THE FIELD ADA ACCESSIBLE DOOR
002	ARCH STREET	A	35 1/2" (PAIR)	83"	1 3/4"	PREFINISHED	UL3	HM (ALT #1)	PREFINISHED	N/A	B	VERIFY ALL DIMENSIONS IN THE FIELD
003	12TH STREET	B	36"(PAIR)	82 3/4"	1 3/4"	PREFINISHED	UL3	HM (ALT #2)	PREFINISHED	N/A	C	VERIFY ALL DIMENSIONS IN THE FIELD
004	12TH STREET	C	±36" (FOUR)	82 3/4"	1 3/4"	PREFINISHED	UL3	HM (ALT #2)	PREFINISHED	N/A	D	VERIFY ALL DIMENSIONS IN THE FIELD
005	12TH STREET	C1	±36" (FOUR)	82 3/4"	1 3/4"	PREFINISHED	UL3	HM (ALT #2)	PREFINISHED	N/A	D	VERIFY ALL DIMENSIONS IN THE FIELD
006	12TH STREET	C1	±36" (FOUR)	82 3/4"	1 3/4"	PREFINISHED	UL3	HM (ALT #2)	PREFINISHED	N/A	D	VERIFY ALL DIMENSIONS IN THE FIELD
007	FILBERT STREET	D	35 3/8"	83"	1 3/4"	PREFINISHED	UL3	HM (ALT #3)	PREFINISHED	N/A	E	VERIFY ALL DIMENSIONS IN THE FIELD
008	FILBERT STREET	E	(2) 35 3/8"	83"	1 3/4"	PREFINISHED	UL3	HM	PREFINISHED	N/A	F	VERIFY ALL DIMS IN THE FIELD ADA ACCESSIBLE DOOR
009	FILBERT STREET	F	(2) 35 3/8"	83"	1 3/4"	PREFINISHED	UL3	HM	PREFINISHED	N/A	G	VERIFY ALL DIMENSIONS IN THE FIELD
010	FILBERT STREET	G	35 3/8"	83"	1 3/4"	PREFINISHED	UL3	HM (ALT #3)	PREFINISHED	N/A	E	VERIFY ALL DIMENSIONS IN THE FIELD



DOOR TYPE - A & A1
HOLLOW METAL



DOOR TYPE - D
ALUMINUM

DOOR TYPE - F
ALUMINUM

DOOR TYPE - E
ALUMINUM

DOOR TYPE - D
ALUMINUM

DOOR TYPE - C & C1
ALUMINUM

DOOR TYPE - B
ALUMINUM

SCALE
1/4" = 1'-0"

DOOR AND FRAME ELEVATIONS **01**

VITETTA
ARCHITECTURE ENGINEERING PLANNING INTERIOR DESIGN
105 CHESLEY DRIVE, SUITE 200
MEDIA, PENNSYLVANIA 19063
T 215.218.4747 F 215.405.2729

CONSULTANTS

SEAL

PROJECT # 6328.00

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION

DO NOT SCALE DRAWINGS

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PROJECT TITLE

READING TERMINAL MARKET
RENOVATION PROJECT
DOOR & FRAME REPLACEMENT
51 NORTH 12TH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

DOOR SCHEDULE
DOOR TYPES
AND DETAILS

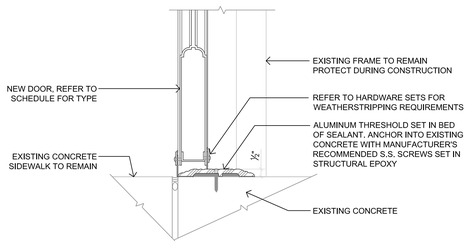
SCALE AS NOTED
DRAWN
CHECKED
APPROVED
DATE SEPTEMBER 26, 2022

REVISIONS

SYMBOL	DATE	DESCRIPTION

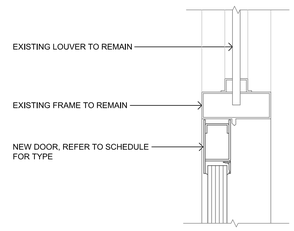
DRAWING #

A-202



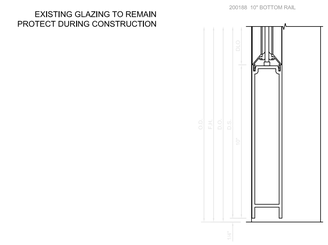
SILL TYPE (ST-1)

SCALE 3"=1'-0" DOOR SILL DETAIL **02**



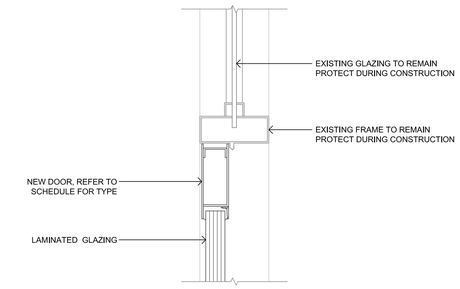
HEAD TYPE (HT-2)

SCALE 3"=1'-0" DOOR HEAD DETAIL **07**



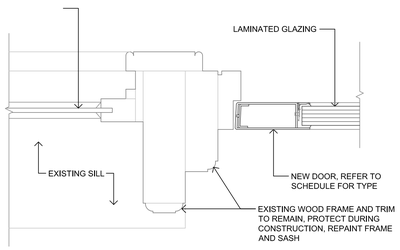
10" BOTTOM RAIL

SCALE 3"=1'-0" DOOR BOTTOM RAIL DETAIL **10**



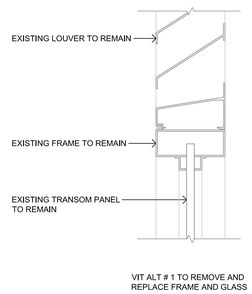
HEAD TYPE (HT-5)

SCALE 3"=1'-0" DOOR HEAD DETAIL **13**



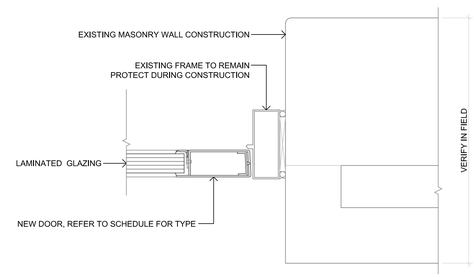
JAMB TYPE (JT-2)

SCALE 3"=1'-0" DOOR JAMB DETAIL **04**



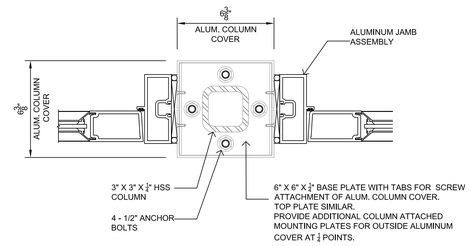
HEAD TYPE (HT-3)

SCALE 3"=1'-0" HEAD DETAIL **08**



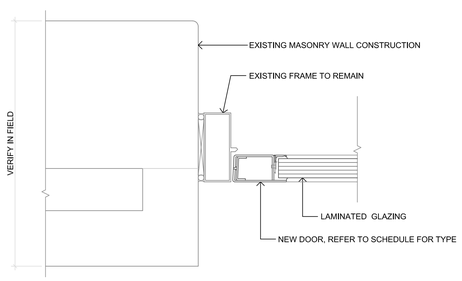
JAMB TYPE (JT-5)

SCALE 3"=1'-0" DOOR JAMB DETAIL **11**



NOTE:
NEW SUPPORT COLUNMS AT DOOR TYPES "E" & "F" TO BE ANCHORED TOP AND BOTTOM TO EXISTING STRUCTURE.
PROVIDE AND INSTALL NEW ALUMINUM COLUMN ENCLOSURE WITH CONCEALED FASTENERS.
COLUMN ENCLOSURE FINISH TO MATCH NEW DOORS AND FRAMES.

SCALE 3"=1'-0" COLUMN DETAIL **14**

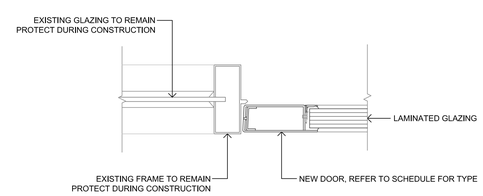


JAMB TYPE (JT-3)

SCALE 3"=1'-0" DOOR JAMB DETAIL **06**

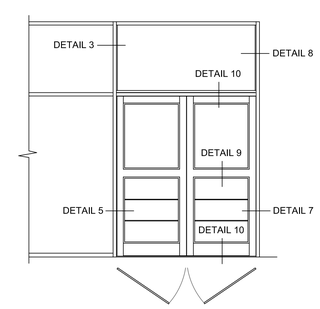
6" CROSS RAIL WITH 1/4 INCH INFILL

SCALE 3"=1'-0" DOOR CROSS RAIL DETAIL **09**



JAMB TYPE (JT-6)

SCALE 3"=1'-0" DOOR JAMB DETAIL **12**



SCALE 1/8"=1'-0"

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SEAL

PROJECT # 6309.22

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DO NOT SCALE DRAWINGS
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PROJECT TITLE

PENNSYLVANIA CONVENTION CENTER
TRAINSHED EXTERIOR RENOVATIONS
DOOR REPLACEMENT
1101 ARCH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

DOOR DETAILS

SCALE AS NOTED
DRAWN
CHECKED
APPROVED
DATE SEPTEMBER 26, 2022

REVISIONS

SYMBOL	DATE	DESCRIPTION

DRAWING #

A-203

ELECTRICAL SYMBOL LIST

POWER

- EWC — ELECTRIC WATER COOLER – PROVIDE 20A, 125V SIMPLEX RECEPTACLE AND DEDICATED CIRCUIT. MOUNT RECEPTACLE WITHIN COOLER ENCLOSURE.
- DUPLEX RECEPTACLE – 125V, 20A GROUNDING TYPE, 3W
- INDICATES DEVICE IS MOUNTED ABOVE COUNTER HEIGHT, BACKSPLASH, OR AS NOTED ON DRAWINGS
- QUADRAPLEX RECEPTACLE – 125V, 20A, GROUNDING TYPE, 3W
- DUPLEX GROUND FAULT RECEPTACLE – 125V, 20A, GROUNDING TYPE, 3W
- DUPLEX GROUND FAULT RECEPTACLE – 125V, 20A, GROUNDING TYPE, 3W MOUNTED ABOVE COUNTER HEIGHT, BACKSPLASH, OR AS INDICATED ON DRAWINGS
- SINGLE RECEPTACLE – SPECIAL PURPOSE (AS NOTED ON DRAWINGS)
- FLOOR MOUNTED DUPLEX RECEPTACLE – 125V, 20A GROUNDING TYPE, 3W
- FLOOR MOUNTED QUADRAPLEX RECEPTACLE – 125V, 20A, GROUNDING TYPE, 3W
- CEILING MOUNTED DUPLEX RECEPTACLE – 125V, 20A GROUNDING TYPE, 3W
- J — JUNCTION BOX (FLOOR, CEILING, WALL MOUNTED)
- PB — PULL BOX
- MOTOR
- T — TRANSFORMER
- GROUND ROD

TELEPHONE/DATA

- COMBINATION TELEPHONE/DATA OUTLET — + DENOTES ABOVE COUNTER MOUNTING HEIGHT
- DATA COMMUNICATION OUTLET
- TELEPHONE OUTLET
- FLOOR MOUNTED DATA OUTLET
- FLOOR MOUNTED TELEPHONE OUTLET
- FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET
- J AV, AV AV — AUDIO/VISUAL JUNCTION BOX (FLOOR, CEILING, WALL MOUNTED)
- WAP — WIRELESS ACCESS POINT JUNCTION BOX (CEILING)

FIRE ALARM

- F — FIRE ALARM MANUAL PULL STATION
- F — FIRE ALARM AUDIBLE SIGNAL AND STROBE LIGHT COMBINATION
- FIRE ALARM STROBE LIGHT
- S — AREA SMOKE DETECTOR, PHOTOELECTRIC (900 SQ. FT. COVERAGE)
- H — THERMAL, FIXED TEMPERATURE TYPE, 200° (625 SQ. FT. COVERAGE)
- D — DUCT MOUNTED SMOKE DETECTOR, PHOTOELECTRIC
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FS — SPRINKLER FLOW SWITCH
- TS — SPRINKLER TAMPER SWITCH
- FRM — FIRE ALARM RELAY MODULE
- FMM — FIRE ALARM MONITORING MODULE

CIRCUIT PROTECTION

- S_M — MANUAL MOTOR STARTER
- DISCONNECT SWITCH, UNFUSED TYPE
- DISCONNECT SWITCH, FUSED TYPE

PANELBOARDS

- SURFACE MOUNTED ELECTRICAL PANELBOARD
- RECESSED MOUNTED ELECTRICAL PANELBOARD
- SYSTEMS PANEL OR TERMINAL CABINET (AS INDICATED ON DRAWING)
- DISTRIBUTION PANEL

SECURITY

- CR — CARD READER
- ML — MAGNETIC LOCK
- ES — ELECTRIC STRIKE
- DC — DOOR CONTACT
- CAM — CCTV CAMERA CEILING JUNCTION BOX

LIGHTING (NOTE: LOWER CASE LETTER INDICATES SWITCHING ARRANGEMENT)

- B b, A a — FLUORESCENT LIGHTING FIXTURE (LETTER INDICATES TYPE)
- C c — FLUORESCENT STRIP FIXTURE (LETTER INDICATES TYPE)
- D d — FLUORESCENT DOWNLIGHT (LETTER INDICATES TYPE)
- F, F f — WALL BRACKET FIXTURE (LETTER INDICATES TYPE)
- EM — EMERGENCY BATTERY PACK (LETTER INDICATES TYPE)
- X1, X2, X1 — EXIT SIGN (LETTER INDICATES TYPE)
- B/E, A/E — LIGHTING FIXTURE ON EMERGENCY (LETTER INDICATES TYPE)

SWITCHING

- S — SINGLE POLE SWITCH
- S_3 S_4 — THREE WAY AND FOUR WAY SWITCHES
- S_{VS} — SWITCH WITH INTEGRAL VACANCY SENSOR & LOW VOLTAGE DIMMING (0–10V)
- S_{LV} — LOW VOLTAGE DIMMING (0–10V) SWITCH
- OS, OS — OCCUPANCY SENSOR
- DS — DAYLIGHT SENSOR
- DS — AUTOMATIC DOOR LIGHT SWITCH
- S_{EF} — LOCAL EXHAUST FAN SWITCH

BRANCH CIRCUIT WIRING (WHERE SHOWN)

- BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN FLOOR OR BELOW GRADE. PROVIDE GROUND WIRES IN PVC CONDUITS WHERE PVC CONDUITS ARE PERMITTED.
- BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN CEILING OR WALL
- BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, EXPOSED
- BRANCH CIRCUIT WIRING TO PANEL
- RP 5 — DENOTES CIRCUIT NUMBER AT PANELBOARD
- DENOTES PANELBOARD IDENTITY (NAME)
- BRANCH CIRCUIT WIRE AND/OR CONDUIT WITH WIRE, TURNING UP TOWARD OBSERVER
- BRANCH CIRCUIT WIRE AND/OR CONDUIT WITH WIRE, TURNING AWAY FROM OBSERVER

POWER DISTRIBUTION (SINGLE LINE DIAGRAM)

- CURRENT TRANSFORMER (CT)
- POTENTIAL TRANSFORMER (PT)
- M — METER (ELECTRIC)
- CIRCUIT BREAKER
- DISCONNECT SWITCH
- FUSE
- TRANSFORMER
- TRANSFER SWITCH
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- ST — SHUNT TRIP

DRAWING SCHEDULE

SHEET NUMBER	SHEET NAME	FOR REVIEW (06/10/2022)	FOR CONSTRUCTION (09/23/2022)
E000	ELECTRICAL COVER SHEET	•	•
E400	ELECTRICAL FIRST FLOOR POWER & SYSTEMS PLAN	•	•

ABBREVIATIONS

1P	ONE POLE	LTG	LIGHTING
2P	TWO POLE	MCB	MAIN CIRCUIT BREAKER
3P	THREE POLE	MDP	MAIN DISTRIBUTION PANEL
4P	FOUR POLE	(ME)	MODIFY EXISTING
A	AMPERE	MISC	MISCELLANEOUS
AB	ABOVE CEILING	MLO	MAIN LUGS ONLY
AC	ABOVE COUNTER	MOD	MOTOR OPERATED DISCONNECT SWITCH
AFCI	ARC FAULT CURRENT INTERRUPTER	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	MTG	MOUNTING
AIC	AMPS INTERRUPTING CURRENT	MTS	MANUAL TRANSFER SWITCH
AFG	ABOVE FINISHED GRADE	(N)	NEW
ARCH	ARCHITECT	N/A	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CATV	CABLE TELEVISION	#	NUMBER
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CD	CANDELA	P	POLE
CKT	CIRCUIT	PB	PULL BOX
CMT	EMPTY CONDUIT	PH ø	PHASE
C.T.	CURRENT TRANSFORMER	PNL	PANEL
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE CONDUIT
DWG	DRAWING	PWR	POWER
(E)	EXISTING TO REMAIN	(R)	REMOVE EXISTING
EC	ELECTRICAL CONTRACTOR	(RE)	RELOCATED EXISTING
(ER)	EXISTING TO BE RELOCATED	(RR)	REMOVE & REPLACE
EWC	ELECTRIC WATER COOLER	REC	RECESSED
FA	FIRE ALARM	SCP	SECURITY CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	ST	SHUNT TRIP
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	SYS	CONNECTION TO SYSTEMS FURNITURE
GC	GENERAL CONTRACTOR	TC	TIME CLOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TEL/DATA	TELEPHONE/DATA
GND	GROUNDED	TEL	TELEPHONE
HP	HORSEPOWER	TTB	TELEPHONE TERMINAL BOARD
HV	HIGH VOLTAGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
Hz	HERTZ (CYCLE) PER SECOND	TYP	TYPICAL
IG	ISOLATED GROUND	UON	UNLESS OTHERWISE NOTED
JB	JUNCTION BOX	V	VOLT
KCMIL	THOUSAND CIRCULAR MILS	W	WATT
KVA	KILOVOLT AMPERE	WP	WEATHERPROOF
KW	KILOWATT	XFMR	TRANSFORMER
LP	LIGHTING PANEL	+	INDICATES MOUNTED ABOVE CENTER OR AS NOTED ON DWG.
		#1/E5.1	DETAIL NUMBER/DRAWING NUMBER

A. SCOPE OF WORK

1. THE WORK UNDER THIS SPECIFICATION INCLUDES THE SATISFACTORY COMPLETION OF ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

   A. POWER: MODIFY EXISTING BRANCH CIRCUITING AND PROVIDE NEW BRANCH CIRCUIT WIRING TO AUTOMATIC DOOR OPERATORS SERVING THE MARKET AND TO THE NEW SECURITY SYSTEM HEAD END LOCATED WITHIN THE SECURITY OFFICE.

   B. SECURITY: EXISTING DOOR CONTACTS AND WIRING AT ALL EXTERIOR MARKET DOORS TO BE REMOVED. PROVIDE NEW SECURITY HEAD END, ASSOCIATED PROGRAMMING, AND NEW RECESSED DOOR CONTACTS AND WIRING TO MONITOR ALL EXTERIOR DOORS SERVING THE MARKET.

   C. FIRE ALARM: REMOVE AND REINSTALL FIRE ALARM DEVICES TO ACCOMMODATE INSTALLATION OF NEW EXTERIOR DOORS AND DOOR FRAMES SERVING THE MARKET.

B. INTENT:

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS, PAY FEES, AND ARRANGE INSPECTIONS FOR CODE COMPLIANT AND FULLY FUNCTIONING SYSTEMS. NOTIFY THE ARCHITECT OF ANY DEVIATIONS FROM THESE PLANS.
2. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL WORK, LIGHT FIXTURES, APPURTENANCES, CONTROLS, AND WIRING BE FURNISHED AND INSTALLED COMPLETED AND READY FOR OPERATION.
3. UNLESS FUNCTIONALLY NECESSARY, ALL WORK SHALL BE CONCEALED. ALL EXPOSED ITEMS WILL BE SUBJECT TO THE ARCHITECT'S APPROVAL, BOTH FOR POSITION AND FINISH. WHEN AN ITEM, DEVICE, OR FIXTURE IS SHOWN ON THE ARCHITECTURAL DRAWINGS THESE POSITIONS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS. IF THE VARIATION IN POSITION IS GREATER THAN 18", THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
4. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. HOWEVER, CERTAIN APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO ENSURE A COMPLETE INSTALLATION.

C. LAWS AND REGULATIONS:

1. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS AND AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE HEREWITH.
2. ANY CHANGES NECESSARY IN ORDER THAT THE WORK COMPLY WITH SUCH LAWS, ORDINANCES, RULES AND REGULATIONS SHALL BE MADE BY THE ELECTRICAL CONTRACTOR, WITH THE APPROVAL OF THE ARCHITECT, AND AT NO ADDITIONAL COST TO THE OWNER.
3. UNLESS OTHERWISE NOTED OR SPECIFIED, ALL MATERIALS AND EQUIPMENT PROVIDED SHALL BE NEW AND SHALL CONFORM TO THE GRADE, QUALITY AND STANDARDS SPECIFIED HEREIN.
4. MATERIALS AND EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED BY THE MANUFACTURER FOR THE SERVICE INTENDED. THIS MATERIAL AND EQUIPMENT SHALL HAVE CAPACITIES AND RATINGS SUFFICIENT TO MEET THE REQUIREMENTS OF THE PROJECT. THE CAPACITIES AND RATINGS SHALL NOT BE IN EXCESS OF THOSE PUBLISHED BY THE MANUFACTURER, BUT MUST BE IN ACCORDANCE WITH ENGINEERING DATA OR OTHER COMPREHENSIVE DATA MADE AVAILABLE TO THE PUBLIC BY THE MANUFACTURER AND IN EFFECT AT THE TIME OF THE OPENING OF THE BIDS.
5. ELECTRICAL DEVICES, MATERIALS, AND EQUIPMENT OF A TYPE APPROVED AND LABELED BY UNDERWRITERS LABORATORY SHALL BE PROVIDED WHEREVER AVAILABLE ON THE MARKET, COMPLETE WITH LABEL.

D. CUTTING, PATCHING AND PAINTING:

1. UNLESS OTHERWISE INDICATED, ALL CUTTING AND PATCHING FOR WORK REQUIRED SHALL BE BY THE ELECTRICAL CONTRACTOR REQUIRING THE OPENING.
2. PATCH EXISTING HOLES LEFT AS A RESULT OF REMOVAL IN ALL SURFACES, VISIBLE OR NOT.

E. INSTALLATION:

1. ALL WIRING SHALL BE COPPER CONDUCTORS. ALUMINUM AND ALUMINUM ALLOY ARE NOT ACCEPTABLE UNLESS APPROVED BY THE OWNER OR ENGINEER, WITH RE-ENGINEERED WIRE SIZES BY THE INSTALLING CONTRACTOR.
2. ALL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

	208/120 VOLTS
PHASE-A,B,C	BLACK, RED, BLUE
NEUTRAL	WHITE
GROUND	GREEN

3. ALL WIRING, UNLESS OTHERWISE NOTED ON DRAWINGS, SHALL BE MINIMUM #12AWG, 600V INSULATION TYPE THHN/THWN STRANDED CONDUCTORS, RATED FOR 75C TEMPERATURE.
4. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL RECEPTACLES, JUNCTION BOXES, AND EQUIPMENT WITH SOURCE PANEL AND CIRCUIT NUMBER.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE OR CEILING TYPES AND PROVIDE APPROPRIATE MOUNTING HARDWARE, PLASTER FRAMES, PENDANTS, ETC.

F. LOW-VOLTAGE CONDUCTORS:

1. MANUFACTURERS:
   GENERAL CABLE CORPORATION
   SOUTHWIRE INCORPORATED
   OKONITE CABLE COMPANY
   ALLIED WIRE & CABLE
2. MATERIALS:
   A. FEEDERS: COPPER STRANDED FOR NO. 8AWG AND LARGER.
   B. BRANCH CIRCUITS: COPPER. STRANDED FOR NO. 12AWG AND LARGER.
3. APPLICATION:
   A. ALL INSTALLATIONS: THHN/THWN SINGLE CONDUCTORS IN RACEWAY.

G. RACEWAYS AND BOXES:

1. MANUFACTURERS:
   ALLIED TUBE & CONDUIT
   THOMAS & BETTS CORPORATION
   WHEATLAND TUBE COMPANY
2. GENERAL:
   A. RIGID STEEL: COMPLY WITH ANSI C80.2 AND UL6.
   B. EMT: COMPLY WITH ANSI C80.3 AND UL 797.
   C. FMC: COMPLY WITH UL1; ZINC-COATED STEEL.
3. EMT:
   A. 3/4-INCH TRADE SIZE MINIMUM
   B. SET-SCREW CONNECTORS
4. SHEET METAL DEVICE BOXES:
   A. COMPLY WITH NEMA OS 1 AND UL 514A
   B. ZINC PLATED STEEL

H. SECURITY AND ACCESS CONTROL

1. SECURITY AND ACCESS CONTROL SYSTEM DELEGATED-DESIGN SUBMITTAL: SCHNEIDER ELECTRIC 'ECOSTRUXURE SECURITY EXPERT' ACCESS CONTROL SYSTEM OR APPROVED EQUAL.
2. PROVIDE MINIMUM 3/4" BOX AND CONDUIT RACEWAY SYSTEM TO SUPPORT INSTALLATION OF THE FOLLOWING:
   1. SECURITY SYSTEM HEAD END.
   2. DOOR POSITION MONITORING AT ALL EXTERIOR MARKET DOORS.
   3. SYSTEM PROGRAMMING AND NETWORK INTERFACE FOR LOCAL AND REMOTE MONITORING. AUDIBLE ALARM SHALL SOUND IN SECURITY ROOM AND ANNUNCIATE AT LOCAL COMPUTER. ALARMS SHALL PUSH TO NETWORK FOR REMOTE MONITORING.
   4. SCHEDULING CONSISTING OF THE FOLLOWING:
      4.1. DOORS TO ALARM WHEN HELD OPEN LONGER THAN 30 SECONDS DURING MARKET OPERATING HOURS.
      4.2. DOORS TO ALARM WHEN OPENED DURING MARKET CLOSED HOURS.
      4.3. PROVIDE OPERATOR ABILITY TO OVERRIDE ALARM AT SELECT DOORS WHEN MARKET VENDORS ARE BRINGING PRODUCT THROUGH EXTERIOR DOORS.
3. PROVIDE RECESSED MOUNT, 3/4" DIAMETER, DOOR CONTACT MAGNETIC REED SWITCH WITH SPST FORM A, NORMALLY OPEN, CONTACTS AT EACH LOCATION SHOWN ON PLANS. PROVIDE SENTEK P/N BR-1021T OR APPROVED EQUAL.

I. ELECTRICAL SYSTEM TESTING:

1. TEST FOR SHORT CIRCUIT AND GROUND PRIOR TO ENERGIZING.
2. AFTER VERIFICATION OF THE ABOVE SYSTEMS, SCHEDULE ROUGH-IN AND FINAL ELECTRICAL INSPECTIONS BY APPROVED INSPECTION AGENCY. ALL FEES ASSOCIATED WITH ELECTRICAL AND FIRE ALARM INSPECTIONS SHALL BE COVERED BY THE ELECTRICAL CONTRACTOR AS PART OF THEIR BID.
3. VERIFY THE PROPER OPERATION OF AUTOMATIC ADA DOOR OPERATORS AFTER INSTALLATION IS COMPLETE UNDER WITNESS BY RTMA..
4. VERIFY OPERATION OF DOOR CONTACTS UNDER WITNESS BY RTMA.

J. WARRANTY:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH, BEFORE FINAL PAYMENT, A WRITTEN FULL WARRANTY FOR THIS INSTALLATION AND ITS PARTS.
2. SUCH WARRANTY SHALL BE IN EFFECT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF THE SYSTEMS AS A WHOLE, AS SIGNIFIED BY THE ARCHITECT'S APPROVAL OF THE FINAL REQUEST FOR PAYMENT.

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SEAL

PROJECT # 6328.00

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PROJECT TITLE

READING TERMINAL MARKET
RENOVATION PROJECT
DOOR & FRAME REPLACEMENT
51 NORTH 12TH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

ELECTRICAL COVER SHEET

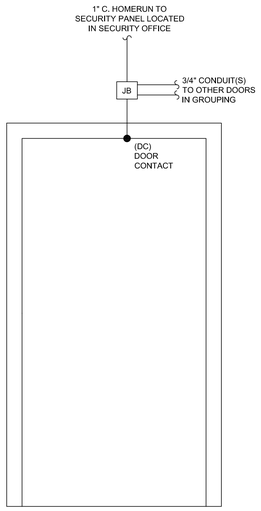
SCALE	AS NOTED
DRAWN	DM
CHECKED	CMF
APPROVED	J+M PROJECT: 21-049
DATE	09/23/2022

REVISIONS

SYMBOL	DATE	DESCRIPTION

DRAWING #

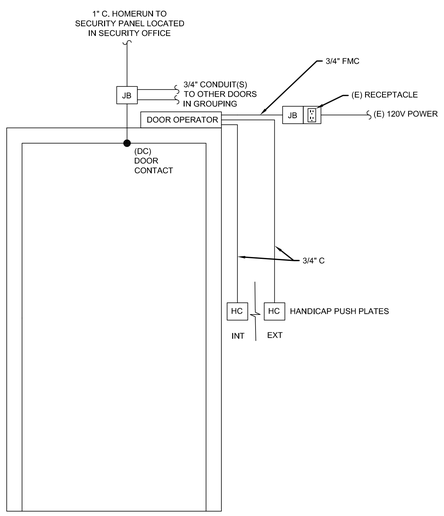
E000



NEW WORK NOTES:

1. ALL WIRING AND DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
2. REFER TO FLOOR PLANS FOR DOOR QUANTITIES AND LOCATIONS.

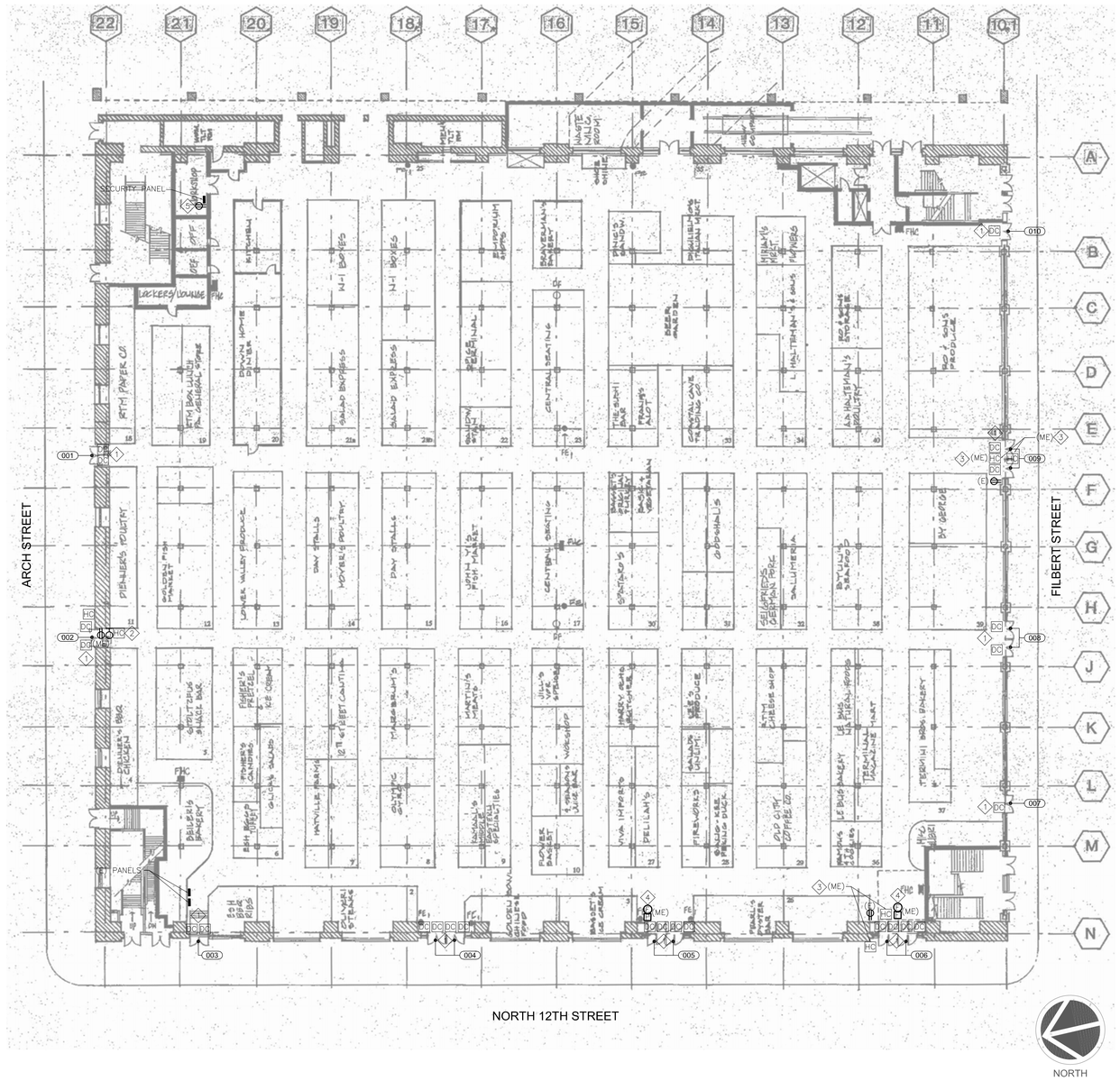
2 TYPICAL DOOR WIRING DETAIL
N.T.S.



NEW WORK NOTES:

1. ALL WIRING AND DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
2. REFER TO FLOOR PLANS FOR DOOR QUANTITIES AND LOCATIONS. ALL DEVICES AND JUNCTION BOXES TO BE SURFACE MOUNTED. PROVIDE WEATHER PROOF BACKBOX FOR EXTERIOR DEVICES.

3 ADA DOOR WIRING DETAIL
N.T.S.



1 FIRST FLOOR PLAN OF READING TERMINAL MARKET
1/16" = 1'

GENERAL NOTES:

1. ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
2. THE ELECTRICAL WORK RELATING TO THE PROJECT IS SHOWN. OTHER EXISTING ELECTRICAL EQUIPMENT, DEVICES, AND SYSTEMS COMPONENTS HAVE BEEN LEFT OFF THE DRAWING FOR CLARITY.
3. VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITING PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
4. COORDINATE ALL WORK AND ASSOCIATED SHUT-DOWNS WITH THE READING TERMINAL MARKET AUTHORITY.
5. ALL WIRING TO BE ROUTED IN 3/4" EMT CONDUIT MINIMUM, RUN EXPOSED AND TIGHT TO CEILING.
6. PROVIDE RECESSED DOOR CONTACT MAGNETIC REED SWITCH WITH SPST FORM A CONTACTS AT EACH LOCATION SHOWN ON PLANS.
7. PROVIDE 2-#14AWG CABLING IN 3/4" CONDUIT HOME RUN FROM EACH DOOR CONTACT SHOWN TO THE NEW SECURITY PANEL LOCATED IN THE SECURITY OFFICE.

KEYED NEW WORK NOTES:

1. REMOVE EXISTING SURFACE MOUNTED DOOR CONTACTS AND ASSOCIATED SECURITY WIRING BACK TO SOURCE. PROVIDE NEW DOOR CONTACTS AND 2-#18 SECURITY WIRING. COORDINATE FIELD MODIFICATIONS TO DOORS AND DOOR FRAMES TO ACCOMMODATE RECESSED DOOR CONTACTS WITH GENERAL CONTRACTOR. COORDINATE INSTALLATION WITH SECURITY VENDOR. REFER TO TYPICAL DOOR DETAIL #2/E400.
2. AT EXISTING RECEPTACLE, INTERCEPT, SPLICE, AND EXTEND EXISTING CIRCUIT TO NEW ADA DOOR CLOSER. PROVIDE 2-#10 + 1-#10 GND IN 3/4" FLEXIBLE METAL CONDUIT AND NEW HARDWIRED CONNECTION TO ADA CLOSER. REFER TO TYPICAL ADA DOOR DETAIL #3/E400.
3. REMOVE AND REINSTALL ADA CLOSER, PUSH PLATE, AND WIRING TO ACCOMMODATE REPLACEMENT OF DOOR AND DOOR FRAME. COORDINATE DOOR FRAME PENETRATIONS TO PERMIT INSTALLATION OF PUSH PLATE WITH THE GENERAL CONTRACTOR IN THE FIELD. EXISTING ADA CLOSER TO REMAIN AT DOOR. REMOVE EXISTING CORD AND PLUG FROM DOOR CLOSER AND PREP FOR HARDWIRED CONNECTION. AT EXISTING RECEPTACLE, INTERCEPT, SPLICE, AND EXTEND EXISTING CIRCUIT TO DOOR CLOSER. PROVIDE 2-#10 + 1-#10 GND IN 3/4" FLEXIBLE METAL CONDUIT AND NEW HARDWIRED CONNECTION TO ADA CLOSER. PROVIDE NEW POWER CONNECTION AS SHOWN IN ADA DOOR DETAIL #3/E400.
4. EXISTING FIRE ALARM DEVICES TO REMAIN AT DOOR. REMOVE AND REINSTALL FIRE ALARM DEVICES AND ASSOCIATED WIRING TO ACCOMMODATE REPLACEMENT OF DOOR AND DOOR FRAME. COORDINATE DOOR FRAME PENETRATIONS TO PERMIT INSTALLATION OF FIRE ALARM DEVICES WITH THE GENERAL CONTRACTOR IN THE FIELD. COORDINATE FIRE ALARM WORK WITH RTMA AND VENDOR.
5. INTERCEPT, SPLICE, AND EXTEND LOCAL RECEPTACLE CIRCUIT WITHIN SECURITY OFFICE TO POWER NEW SECURITY PANEL. MATCH EXISTING WIRE AND CONDUIT SIZE.

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READING TERMINAL MARKET
RENOVATION PROJECT
DOOR & FRAME REPLACEMENT
51 NORTH 12TH STREET
PHILADELPHIA, PA 19107

DRAWING TITLE

ELECTRICAL FIRST FLOOR POWER & SYSTEMS PLAN

SCALE	AS NOTED
DRAWN	DM
CHECKED	CMF
APPROVED	J+M PROJECT: 21-049
DATE	09/23/2022

REVISIONS

SYMBOL	DATE	DESCRIPTION

DRAWING #

E400