UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS - 01.15.2026





VOLUME 3

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ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

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REVISIONS

NO.	REASON	DATE

PROJECT TEAM
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PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
COVER SHEET - VOLUME 3

SHEET NUMBER
CS.3

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/5142301800_Housing Village Phase 3_A_v24.rvt
W:\StudioFolder\Subfolder\######## JobName\2 Design\4 Drawings\Revit\
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ABBREVIATIONS

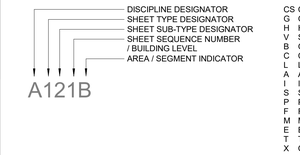
Abbr.	Abbreviated Phrase
ACT	ACOUSTIC CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
AMC	ACOUSTICAL METAL CEILING
APC	ACOUSTICAL PANEL CEILING
APPROX.	APPROXIMATE
ARCH	ARCHITECT(URAL)
ARP	ACRYLIC RESIN PANEL
AWC	ACOUSTICAL WOOD CEILING
BBD	BULLETIN BOARD
BD	BOARD
BO	BOTTOM OF
BOD	BASIS OF DESIGN
BOT	BOTTOM
C/L, CL	CENTERLINE
CAB	CABINET
CC	CUBICLE CURTAIN
CIR	CIRCLE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR(ANCE)
COL	COLUMN
CON. CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CARPET
CRB	COVED RUBBER BASE
CT	CERAMIC OR PORCELAIN TILE
CTR	CENTER
D	DRYER
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH / DEMOLITION
DET, DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING(S)
DWN	DOWN
DWR	DRAWER
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EP	EPOXY FLOORING
EQ	EQUAL(LY)
EQPT	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALAM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH(ED)
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FO	FACE OF
FOB	FACE OF BRICK
FOG	FACE OF GLASS
FOM	FACE OF MASONRY
FOS	FACE OF SHEATHING
FR	FIRE RETARDANT TREATED
FRP	FIBERGLASS REINFORCED PLASTIC (POLYMER)
FT	FOOT, FEET
FURR	FURR(ED), (ING)
FUT	FUTURE
FWC	FABRIC WALL COVERING
FWP	FABRIC WRAPPED PANEL
GA	GAUGE
GALV	GALVANIZED
GB	GLASS BOARD
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GR	GROUT
GRAN	GRANITE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HD	HAND DRYER
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HORIZ	HORIZONTAL(LY)
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWD	HARDWOOD
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INCL	INCLUDE(D), (ING)
INSUL	INSULATE(D), (ING)
INT	INTERIOR
JAN	JANITOR'S CLOSET
JT	JOINT
KIT	KITCHEN
KPL	KICK PLATE
L	LENGTH
LAM	LAMINATE(D)
LBL	LABEL
LCKR	LOCKER
LIN	LINOLEUM
LT	LIGHT
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
MATL	MATERIAL(S)
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MP	METAL PANEL
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NIC	NOT IN CONTRACT
NO, #	NUMBER
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OFF	OFFICE
OH	OPPOSITE HAND
OPNG	OPENING
PED	PEDESTAL, PEDESTRIAN, PEDIATRIC
PERF	PERFORATE(D)
PFB	PREFABRICATE(D)
PFN	PREFINISH(ED)
PL, PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
PR	PAIR
PT	PRESSURE TREAT(ED)
PTN	PARTITION
QT	QUARRY TILE
QZ	QUARTZ, ENGINEERED QUARTZ
RB	RUBBER BASE
RBT	RUBBER TILE
REC	RECEPTACLE
REF	REFERENCE, REFER
REFR	REFRIGERATOR
REM	REMOVE
REQ'D	REQUIRED
RM	ROOM
RS	RESILIENT
S&R	SHELF AND ROD
SCW	SOLID CORE WOOD
SECT	SECTION
SF	SQUARE FEET
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SHR	SHOWER
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STD	STANDARD
STOR	STORAGE
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SYS	SYSTEM
TB	TACK BOARD
TEMP	TEMPERED, TEMPORARY
TME	TO MATCH EXISTING
TYP	TYPICAL
TZ	TERRAZZO
UNO	UNLESS NOTED OTHERWISE
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL(LY)
VIF	VERIFY IN FIELD
VIN	VINYL
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDTH
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WGT	WEIGHT
WIN	WINDOW
WM	WALK-OFF MAT/ FLOORING
WTW	WALL TO WALL

GENERAL NOTES

A. ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE PROJECT MANUAL, THE DRAWINGS AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.
B. REVIEW DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS WHEN APPLICABLE. CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF WORK.
C. COMPLIANCE WITH INDUSTRY STANDARDS, METHODS OF CONSTRUCTION, AND INSTALLATION AND ERECTION OF ELEMENTS AND MATERIALS ARE THE CONTRACTOR'S RESPONSIBILITY.
D. THE GC AND EACH SUBCONTRACTOR ARE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH THE ENTIRE SET OF THESE CONTRACT DOCUMENTS AND ARE IS RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH OTHER TRADES. CORRECTIONS FOR UNCOORDINATED WORK WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
E. WORK NOTED "BY OTHERS" OR "NIC" SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT.
F. PROTECT AREAS ADJACENT TO WORK AREA FROM DAMAGE DURING CONSTRUCTION. PATCH AND REPAIR ALL DAMAGED AREAS TO MATCH ADJACENT FINISH AND ENSURE A SMOOTH SURFACE.DO NOT SCALE DRAWINGS. ALL PARTITION LOCATIONS, DIMENSIONS, AND TYPES, AND ALL DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT. PARTITION PLAN SUPERSEDES OTHER PLANS.
G. COORDINATE AND PROVIDE METAL OR RATED SOLID WOOD (FIRE TREATED) BLOCKING IN PARTITIONS AND CEILINGS FOR ALL WALL HUNG AND CEILING ATTACHED ITEMS INCLUDING MILLWORK, EQUIPMENT, AND FURNITURE. COORDINATE WITH OWNER AND VENDOR TO IDENTIFY LOCATIONS AND SIZES OF ITEMS PROVIDED/INSTALLED BY OTHERS.
H. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE OF GYPSUM BOARD, UNLESS INDICATED OTHERWISE. DIMENSIONS MARKED "CLEAR", "HOLD", AND "MIN" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF FINISHES. COORDINATE THICKNESS WITH FINISH SCHEDULE, SPECIFICATIONS, AND DETAILS.
I. COLUMN CENTER LINES, OR GRID LINES, ARE SHOWN FOR DIMENSIONING, VERIFY EXACT LOCATIONS IN FIELD.
J. PROVIDE PARTITION TYPE WITH THE HIGHEST UL AND/OR ACOUSTICAL PERFORMANCE RATING WHERE MORE THAN ONE PARTITION TYPE IS INDICATED.
K. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
L. MATERIALS LISED IN UL RATED ASSEMBLIES SHALL CONFORM TO REFERENCED STANDARDS.
M. STENCIL BOTH SIDES OF UL RATED PARTITIONS ABOVE SCHEDULED CEILING WITH REQUIRED PROTECTION TEXT.
N. FIRE STOP PENETRATIONS IN UL RATED ASSEMBLIES TO MAINTAIN/ACHIEVE LEVEL OF PROTECTION REQUIRED FOR ASSEMBLY TYPE. FIRE STOP ALONG PERIMETER OF RATED ASSEMBLIES WHERE VOIDS OCCUR. REFER TO UL DETAILS FOR MORE INFORMATION. GC SHALL NOTIFY THE ARCHITECT OF ANY PENETRATIONS TO RATED ASSEMBLIES NOT COVERED BY THE UL DETAILS PROVIDED IN THIS DRAWING SET AND PROVIDE DETAILS FOR ARCHITECT REVIEW PRIOR TO PROCEEDING WITH WORK.
O. PROVIDE FIRE EXTINGUISHER CABINETS. SMOKE DETECTORS AND ALL OTHER LIFE SAFETY DEVICES AS REQUIRED BY CODE. PROVIDE DRAWING SHOWING LOCATION, OF DEVICES FOR REVIEW PRIOR TO FRAMING OF WALLS. DO NOT PLACE IN FIRE RATED PARTITIONS.
P. PROVIDE HOT AND COLD WATER LINES, SOIL, VENT LINES AND PRESSURE AND SHUTOFF VALVES AS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING AND PLUMBING CODES FOR PLUMBING FIXTURES.
Q. COORDINATE SCHEDULE FOR TELEPHONE, DATA, SECURITY, AND AUDIO VISUAL INSTALLATIONS WITH TENANT AND OWNER.

SHEET NUMBERING LEGEND

SHEET NUMBER STRUCTURE



DISCIPLINE DESIGNATORS

CS COVER SHEET
G GENERAL / LIFE SAFETY
H HAZARDOUS MATERIALS
V SURVEY / MAPPING
B GEOTECHNICAL
C CIVIL
L LANDSCAPE
A ARCHITECTURE
I INTERIORS
S STRUCTURAL
P PLUMBING
F FIRE PROTECTION
M MECHANICAL
E ELECTRICAL
T TELECOM / DATA
X OTHER DISCIPLINES

SHEET TYPE DESIGNATORS

0 GENERAL INFORMATION
1 PLANS
2 ELEVATIONS
3 SECTIONS
4 ENLARGEMENTS
5 DETAILS
6-9 (VARIES BY DISCIPLINE)

SHEET INDEX

SHEET NUMBER	SHEET NAME
01 GENERAL/LIFE SAFETY	
G013	FIRE RESISTANCE DESIGNS
VOLUME 1	
00 COVER SHEET	
CS.1	COVER SHEET - VOLUME 1
01 GENERAL/LIFE SAFETY	
G001	GENERAL INFORMATION AND SHEET INDEX - EARLY PROCUREMENT BID SET
G001	GENERAL INFORMATION AND SHEET INDEX - EARLY STRUCTURAL PACKAGE
G001.1	GENERAL INFORMATION AND SHEET INDEX - VOLUME 1
G002	BUILDING CODE SUMMARY-NC APPENDIX B
G003	UNIT COUNTS & ACCESSIBILITY REQUIREMENTS
G011	FIRE RESISTANCE DESIGNS
G012	FIRE RESISTANCE DESIGNS
G111	LIFE SAFETY PLAN - LEVEL 01
G112	LIFE SAFETY PLAN - LEVEL 02
G113	LIFE SAFETY PLAN - LEVEL 03 - 05
02 CIVIL	
C101	EARLY SITE PACKAGE - UTILITY DEMOLITION PLAN
C102	UTILITY DEMO PLAN
C201	EARLY SITE PACKAGE - EROSION CONTROL & ROUGH GRADING PLAN
C202	EROSION CONTROL PLAN
C301	EARLY SITE PACKAGE - UTILITY PLAN
C302	UTILITY PLAN
C400	STORMWATER DRAINAGE PLAN
C501	EROSION CONTROL DETAILS
C502	EROSION CONTROL DETAILS
C601	DRAINAGE & UTILITY DETAILS
C602	DRAINAGE & UTILITY DETAILS
C603	DRAINAGE & UTILITY DETAILS
03 LANDSCAPE	
L001	GENERAL NOTES AND SHEET INDEX - LANDSCAPE
L101	CONTEXT PLAN
L120	OVERALL SITE PLAN - BASE BID
L120.1	FIRE ACCESS PLAN - BASE BID
L121	OVERALL SITE PLAN - ADD ALT 1
L121.1	FIRE ACCESS PLAN - ADD ALT 2
L122	OVERALL SITE PLAN - ADD ALT 2
L122.1	FIRE ACCESS PLAN - ADD ALT 2
L130	BASE BID - MATERIALS PLAN
L130A	BASE BID - MATERIALS PLAN ENLARGEMENT A
L130B	BASE BID - MATERIALS PLAN ENLARGEMENT B
L130C	BASE BID - MATERIALS PLAN ENLARGEMENT c
L130D	BASE BID - MATERIALS PLAN ENLARGEMENT D
L130E	BASE BID - MATERIALS PLAN - BRICK PAVING ENLARGEMENT, FRONT
L130F	BASE BID - MATERIALS PLAN - BRICK PAVING ENLARGEMENT, REAR
L131	ADD ALT 1 - MATERIALS PLAN
L131A	ADD ALT 1 - MATERIALS PLAN ENLARGEMENT A
L131B	ADD ALT 1 - MATERIALS PLAN ENLARGEMENT B
L131C	ADD ALT 1 - MATERIALS PLAN ENLARGEMENT C
L131D	ADD ALT 1 - MATERIALS PLAN ENLARGEMENT D
L131E	ADD ALT 1- MATERIALS PLAN - BRICK PAVING ENLARGEMENT, FRONT
L131F	ADD ALT 1 - MATERIALS PLAN - BRICK PAVING ENLARGEMENT, REAR
L132	ADD ALT 2 - MATERIALS PLAN
L132A	ADD ALT 2 - MATERIALS PLAN ENLARGEMENT A
L132B	ADD ALT 2 - MATERIALS PLAN ENLARGEMENT B
L132C	ADD ALT 2 - MATERIALS PLAN ENLARGEMENT C
L132D	ADD ALT 2 - MATERIALS PLAN ENLARGEMENT D
L132E	ADD ALT 2- MATERIALS PLAN - BRICK PAVING ENLARGEMENT, FRONT
L132F	ADD ALT 2 - MATERIALS PLAN - BRICK PAVING ENLARGEMENT, REAR
L140	BASE BID - LAYOUT PLAN
L140A	BASE BID - LAYOUT PLAN ENLARGEMENT A
L140B	BASE BID - LAYOUT PLAN ENLARGEMENT B
L140C	BASE BID - LAYOUT PLAN ENLARGEMENT C
L140D	BASE BID - LAYOUT PLAN ENLARGEMENT D
L141	ADD ALT 1 - LAYOUT PLAN
L141A	ADD ALT 1 - LAYOUT PLAN ENLARGEMENT A
L141B	ADD ALT 1 - LAYOUT PLAN ENLARGEMENT B
L141C	ADD ALT 1 - LAYOUT PLAN ENLARGEMENT C
L141D	ADD ALT 1 - LAYOUT PLAN ENLARGEMENT D
L142	ADD ALT 2 - LAYOUT PLAN
L142A	ADD ALT 2 - LAYOUT PLAN ENLARGEMENT A
L142B	ADD ALT 2 - LAYOUT PLAN ENLARGEMENT B
L142C	ADD ALT 2 - LAYOUT PLAN ENLARGEMENT C
L142D	ADD ALT 2 - LAYOUT PLAN ENLARGEMENT D
L150	BASE BID - GRADING PLAN
L150A	BASE BID - GRADING PLAN ENLARGEMENT A
L150B	BASE BID - GRADING PLAN ENLARGEMENT B
L150C	BASE BID - GRADING PLAN ENLARGEMENT C
L150D	BASE BID - GRADING PLAN ENLARGEMENT D
L151	ADD ALT 1 - GRADING PLAN
L151A	ADD ALT 1 - GRADING PLAN ENLARGEMENT A
L151B	ADD ALT 1 - GRADING PLAN ENLARGEMENT B
L151C	ADD ALT 1 - GRADING PLAN ENLARGEMENT C
L151D	ADD ALT 1 - GRADING PLAN ENLARGEMENT D
L152	ADD ALT 2 - GRADING PLAN
L152A	ADD ALT 2 - GRADING PLAN ENLARGEMENT A
L152B	ADD ALT 2 - GRADING PLAN ENLARGEMENT B
L152C	ADD ALT 2 - GRADING PLAN ENLARGEMENT C
L152D	ADD ALT 2 - GRADING PLAN ENLARGEMENT D
L160	BASE BID - PLANTING PLAN
L160A	BASE BID - PLANTING PLAN ENLARGEMENT A
L160B	BASE BID - PLANTING PLAN ENLARGEMENT B
L160C	BASE BID - PLANTING PLAN ENLARGEMENT C
L160D	BASE BID - PLANTING PLAN ENLARGEMENT D
L160S	BASE BID - PLANTING SCHEDULE
L161	ADD ALT 1 - PLANTING PLAN
L161A	ADD ALT 1 - PLANTING PLAN ENLARGEMENT A
L161B	ADD ALT 1 - PLANTING PLAN ENLARGEMENT B
L161C	ADD ALT 1 - PLANTING PLAN ENLARGEMENT C
L161D	ADD ALT 1 - PLANTING PLAN ENLARGEMENT D
L161S	ADD ALT 1 - PLANTING SCHEDULE
L162	ADD ALT 2 - PLANTING PLAN
L162A	ADD ALT 2 - PLANTING PLAN ENLARGEMENT A
L162B	ADD ALT 2 - PLANTING PLAN ENLARGEMENT B
L162C	ADD ALT 2 - PLANTING PLAN ENLARGEMENT C
L162D	ADD ALT 2 - PLANTING PLAN ENLARGEMENT D
L162S	ADD ALT 2 - PLANTING SCHEDULE
L170	SOILS PLAN - BASE BID
L171	SOILS PLAN - ADD ALT 1
L172	SOILS PLAN - ADD ALT 2
L180	IRRIGATION PLAN - BASE BID
L181	IRRIGATION PLAN - ADD ALT 1
L182	IRRIGATION PLAN - ADD ALT 2
L500	LANDSCAPE DETAILS
L501	LANDSCAPE DETAILS
L502	LANDSCAPE DETAILS
L503	LANDSCAPE DETAILS
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ESP L501	EARLY SITE PACKAGE - LANDSCAPE DETAILS
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A010	INTERIOR PARTITIONS - TYPES
A011	INTERIOR PARTITIONS - DETAILS
A020	EXTERIOR SYSTEMS - WALL
A021	EXTERIOR SYSTEMS - ROOF
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A111A	FLOOR PLAN - LEVEL 01 - REGION A
A111B	FLOOR PLAN - LEVEL 01 - REGION B
A112	FLOOR PLAN - LEVEL 02 - OVERALL
A112A	FLOOR PLAN - LEVEL 02 - REGION A
A112B	FLOOR PLAN - LEVEL 02 - REGION B
A113	FLOOR PLAN - LEVEL 03-04 - OVERALL
A113A	FLOOR PLAN - LEVEL 03 - LEVEL 04 - REGION A
A113B	FLOOR PLAN - LEVEL 03 - LEVEL 04 - REGION B
A114	FLOOR PLAN - LEVEL 05 - OVERALL
A114A	FLOOR PLAN - LEVEL 05 - REGION A
A114B	FLOOR PLAN - LEVEL 05 - REGION B
A115	ATTIC PLAN
A116	ROOF PLAN
A121	REFLECTED CEILING PLAN - LEVEL 01 - OVERALL
A121A	REFLECTED CEILING PLAN - LEVEL 01 - REGION A
A121B	REFLECTED CEILING PLAN - LEVEL 01 - REGION B
A122	REFLECTED CEILING PLAN - LEVEL 02 - OVERALL
A122A	REFLECTED CEILING PLAN - LEVEL 02 - REGION A
A122B	REFLECTED CEILING PLAN - LEVEL 02 - REGION B
A123	REFLECTED CEILING PLAN - LEVEL 03-04 - OVERALL
A123A	REFLECTED CEILING PLAN - LEVEL 03-04 - REGION A
A123B	REFLECTED CEILING PLAN - LEVEL 03-05 - REGION B
A124	REFLECTED CEILING PLAN - LEVEL 05 - OVERALL
A125	REFLECTED CEILING PLAN - ATTIC
A126	ENLARGED REFLECTED CEILING PLAN
A127	ENLARGED REFLECTED CEILING PLAN
A128	ENLARGED REFLECTED CEILING PLAN
A210	EXTERIOR ELEVATIONS
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A212	EXTERIOR ELEVATIONS
A213	EXTERIOR ELEVATIONS - MOCKUP
A220	EXTERIOR AND INTERIOR GLAZING ELEVATIONS
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A311	BUILDING SECTIONS
A312	BUILDING SECTIONS
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A321	WALL SECTIONS
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A402	ENLARGED TOILET PLANS AND ELEVATIONS
A403	ENLARGED UNIT PLANS
A404	ENLARGED PLANS AND ELEVATIONS - LEVEL 01 LOBBY & RECEPTION
A405	ENLARGED PLANS AND ELEVATIONS - ELEVATOR LOBBY
A406	ENLARGED PLANS AND ELEVATIONS - LEARNING COMMONS & STAFF WORK RM
A407	ENLARGED PLANS AND ELEVATIONS
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A512	PLAN DETAILS
A521	SECTION DETAILS
A522	SECTION DETAILS
A523	SECTION DETAILS
A524	OPENING DETAILS
A531	CEILING DETAILS
A532	CEILING DETAILS
A541	ROOF DETAILS
A601	VERTICAL CIRCULATION - ELEVATOR
A602	VERTICAL CIRCULATION - STAIRS
A603	VERTICAL CIRCULATION - ATTIC & ATTIC ACCESS
A610	STAIR DETAILS
A800	FINISH SCHEDULE
A811	FINISH PLAN - LEVEL 01 - REGION A
A812	FINISH PLAN - LEVEL 01 - REGION B
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A814	FINISH PLAN - LEVEL 02 - REGION B
A815	FINISH PLAN - LEVEL 03-05 - REGION A
A816	FINISH PLAN - LEVEL 03-05 - REGION B
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A831	MILLWORK DETAILS
A832	MILLWORK DETAILS
A841	INTERIOR DETAILS
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A902	DOOR SCHEDULE - LEVELS 03 AND 04
A903	DOOR SCHEDULE - LEVEL 05 AND ATTIC LEVEL
A910	DOOR AND FRAME TYPES
A920	SIGNAGE TYPES AND SCHEDULE
A921	SIGNAGE PLAN - LEVEL 01
A922	SIGNAGE PLAN - LEVEL 02
A923	SIGNAGE PLAN - LEVEL 03 - 05
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G001.2	GENERAL INFORMATION AND SHEET INDEX - VOLUME 2
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S002	SPECIAL INSPECTIONS
S101A	FOUNDATION PLAN - REGION A
S101B	FOUNDATION PLAN - REGION B
S102A	LEVEL 02 FRAMING PLAN - REGION A
S102B	LEVEL 02 FRAMING PLAN - REGION B
S103A	LEVEL 03 FRAMING PLAN - REGION A
S103B	LEVEL 03 FRAMING PLAN - REGION B
S104A	LEVEL 04 FRAMING PLAN - REGION A
S104B	LEVEL 04 FRAMING PLAN - REGION B
S105A	LEVEL 05 FRAMING PLAN - REGION A
S105B	LEVEL 05 FRAMING PLAN - REGION B
S106A	MECHANICAL PLATFORM FRAMING PLAN - REGION A
S106B	MECHANICAL PLATFORM FRAMING PLAN - REGION B
S107A	ROOF FRAMING PLAN - REGION A
S107B	ROOF FRAMING PLAN - REGION B
S111	ENLARGED PLANS
S202A	LEVEL 02 EOS & REINFORCEMENT PLAN - REGION A
S202B	LEVEL 02 EOS & REINFORCEMENT PLAN - REGION B
S203A	LEVEL 03 EOS & REINFORCEMENT PLAN - REGION A
S203B	LEVEL 03 EOS & REINFORCEMENT PLAN - REGION B
S204A	LEVEL 04 EOS & REINFORCEMENT PLAN - REGION A
S204B	LEVEL 04 EOS & REINFORCEMENT PLAN - REGION B
S205A	LEVEL 05 EOS & REINFORCEMENT PLAN - REGION A
S205B	LEVEL 05 EOS & REINFORCEMENT PLAN - REGION B
S206A	MECHANICAL PLATFORM EOS & REINFORCMENT PLAN - REGION A
S206B	MECHANICAL PLATFORM EOS & REINFORCMENT PLAN - REGION B
S301	FOUNDATION DETAILS & SCHEDULES
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S304	FOUNDATION DETAILS
S311	FLOOR FRAMING DETAILS
S312	FLOOR FRAMING DETAILS
S313	FLOOR FRAMING DETAILS
S321	ROOF FRAMING DETAILS
S322	ROOF FRAMING DETAILS
S401	MASONRY DETAILS
S402	MASONRY DETAILS
S403	MASONRY DETAILS
S501	LIGHT GAGE FRAMING DETAILS
S502	LIGHT GAGE FRAMING DETAILS
VOLUME 3	
01 GENERAL/LIFE SAFETY	
G001.3	GENERAL INFORMATION AND SHEET INDEX - VOLUME 3
07 - FIRE SUPPRESSION	
FP001	FIRE SUPPRESSION LEGEND, SCHEDULES & NOTES
FP002	FIRE PROTECTION STANDPIPE SCHEMATIC
FP101A	FIRE PROTECTION PLAN - LEVEL 01 - AREA A
FP101B	FIRE PROTECTION PLAN - LEVEL 01 - AREA B
FP102A	FIRE PROTECTION PLAN - LEVEL 02 - AREA A
FP102B	FIRE PROTECTION PLAN - LEVEL 02 - AREA B
FP103A	FIRE PROTECTION PLAN - LEVEL 03 - AREA A
FP103B	FIRE PROTECTION PLAN - LEVEL 03 - AREA B
FP104A	FIRE PROTECTION PLAN - LEVEL 04 - AREA A
FP104B	FIRE PROTECTION PLAN - LEVEL 04 - AREA B
FP105A	FIRE PROTECTION PLAN - LEVEL 05 - AREA A
FP105B	FIRE PROTECTION PLAN - LEVEL 05 - AREA B
FP901	FIRE PROTECTION DETAILS
FP902	FIRE PROTECTION DETAILS
08 - PLUMBING	
P001	PLUMBING LEGEND, SCHEDULES, & NOTES
P101A	PLUMBING DOMESTIC WATER PLAN - LEVEL 01 - AREA A
P101B	PLUMBING DOMESTIC WATER & GAS PLAN - LEVEL 01 - AREA B
P102A	PLUMBING DOMESTIC WATER PLAN - LEVEL 02 - AREA A
P102B	PLUMBING DOMESTIC WATER PLAN - LEVEL 02 - AREA B
P103A	PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - AREA A
P103B	PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - AREA B
P104A	PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - AREA A
P104B	PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - AREA B
P105A	PLUMBING DOMESTIC WATER PLAN - LEVEL 05 - AREA A
P105B	PLUMBING DOMESTIC WATER PLAN - LEVEL 05 - AREA B
P201A	PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA A
P202A	PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA A
P202B	PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA B
P203A	PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA A
P203B	PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA B
P204A	PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA A
P204B	PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA B
P205A	PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA A
P205B	PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA B
P206A	PLUMBING WASTE/VENT PLAN - ROOF - AREA A
P206B	PLUMBING WASTE/VENT PLAN - ROOF - AREA B
P603A	PLUMBING ENLARGED LAUNDRY PLANS - AREA A
P603B	PLUMBING ENLARGED LAUNDRY PLANS - AREA B
P604	PLUMBING DOMESTIC WATER ENLARGED PLANS - LEVEL 01 - AREA B
P605	PLUMBING WASTE/VENT ENLARGED PLAN - LEVEL 01 - AREA B
P606	PLUMBING ENLARGED PLANS - LEVEL 01 - AREA A
P607	PLUMBING ENLARGED PLANS - LEVEL 01 - AREA B
P608	PLUMBING WASTE/VENT- ENLARGED BATHROOM STACK PLANS/ ISOMETRICS (TYP)
P609	PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLANS/ ISOMETRIC - LEVEL 01 & 02 (TYP)
P610	PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLANS/ ISOMETRIC - LEVEL 03 & 04 (TYP)
P611	PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLAN/ ISOMETRIC - LEVEL 05 (TYP)
P612	PLUMBING DOMESTIC WATER - ENLARGED LOUNGE STACK PLAN/ ISOMETRIC - AREA A
P613	PLUMBING DOMESTIC WATER - ENLARGED KITCHEN LOUNGE STACK PLAN/ ISOMETRIC - AREA B
P614	PLUMBING WASTE/VENT - ENLARGED LOUNGE STACK PLAN/ ISOMETRIC - AREA A
P615	PLUMBING WASTE/VENT - ENLARGED KITCHEN LOUNGE STACK PLAN/ ISOMETRIC - AREA B
P901	PLUMBING DETAILS
P902	PLUMBING DETAILS
P903	PLUMBING DETAILS
09 - MECHANICAL	
M001	MECHANICAL LEGEND
M012	HVAC SITE PLAN - NEW WORK
M101A	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA A
M101B	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA B
M102A	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA A
M102B	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA B
M103A	MECHANICAL AIR DISTRIBUTION PLAN - LEVELS 03-05 - AREA A
M103B	MECHANICAL AIR DISTRIBUTION PLAN - LEVELS 03-05 - AREA B
M106A	MECHANICAL AIR DISTRIBUTION PLAN - ROOF- AREA A
M106B	MECHANICAL AIR DISTRIBUTION PLAN - ROO

PLUMBING FIXTURE CONNECTIONS

MARK	DESCRIPTION	ROUGH-IN SIZE				BASIS OF DESIGN:	REMARKS:
		HW	CW	WASTE	VENT		
P-1	WATER CLOSET - FLOOR MOUNT	-	1"	4"	2"	WATER CLOSET: AMERICAN STANDARD 3641.001 FLUSH VALVE: SLOAN REGAL 111-1.28	MANUAL FLUSH VALVE, 1.28 GPF; PROVIDE WITH SLOAN VBF-72-A TRAP PRIMER ASSEMBLY
P-1A	WATER CLOSET - ADA COMPLIANT, FLOOR MOUNT	-	1"	4"	2"	WATER CLOSET: AMERICAN STANDARD 3641.001 FLUSH VALVE: SLOAN REGAL 111-1.28	MANUAL FLUSH VALVE, 1.28 GPF; PROVIDE WITH SLOAN VBF-72-A TRAP PRIMER ASSEMBLY
P-2	LAVATORY: UNDERMOUNT	1/2"	1/2"	4"	2"	LAVATORY: AMERICAN STANDARD 0496.221 FAUCET: DELTA 22C151	PROVIDE WITH CALEFFI SERIES 5212 MIXING VALVE, 0.5 GPM FAUCET, WHITE VITREOUS CHINA.
P-2A	LAVATORY: ADA-COMPLIANT, WALL HUNG, CAST IRON	1/2"	1/2"	2"	2"	LAVATORY: AMERICAN STANDARD DECORUM 9134001EC FAUCET: DELTA 22C151	PROVIDE WITH CALEFFI SERIES 5212 MIXING VALVE, 0.5 GPM FAUCET, WHITE VITREOUS CHINA. MOUNT AT ADA HEIGHT FOR LOCATIONS INDICATED ON ARCHITECTURAL PLANS.
P-3	SHOWER: 36"x36", 2 PIECE	1/2"	1/2"	2"	2"	SHOWER: COMFORT DESIGNS XSS 3636 SH LF 3.5 FAUCET: DELTA T13H132	SHOWER DRAIN: WATTS SD-2NH
P-3A	SHOWER: 1 PIECE, ADA-COMPLIANT	1/2"	1/2"	2"	2"	SHOWER: COMFORT DESIGNS XST 3838 BF RRF 1.0 RRF FAUCET: DELTA T13H332-25C	SHOWER DRAIN: WATTS SD-2NH PROVIDE WITH SEAT AND GRAB BARS
P-3B	SHOWER: 2 PIECE, ADA-COMPLIANT, 36"x60"	1/2"	1/2"	2"	2"	SHOWER: COMFORT DESIGNS XST 6334 BF .75 FAUCET: DELTA T13H332-25C	SHOWER DRAIN: WATTS SD-2NH PROVIDE WITH SEAT AND GRAB BARS.
P-4	BREAKROOM SINK: ONE COMPARTMENT SS UNDERMOUNT ADA	1/2"	1/2"	2"	2"	SINK: ELKAY ECTSRAD252260 FAUCET: DELTA 1959LF	PROVIDE WITH LKDD DRAIN, BOTTOM GRID, AND FILTERED FAUCET
P-4B	LAUNDRY SINK: ONE COMPARTMENT SS UNDERMOUNT ADA	1/2"	1/2"	2"	2"	SINK: ELKAY EFRU211510T FAUCET: ELKAY LKDVR208513LC	PROVIDE WITH LKDD DRAIN, BOTTOM GRID, AND FILTERED FAUCET
P-5	ELECTRIC WATER COOLER - ADA COMPLIANT	-	1/2"	2"	2"	BASIS OF DESIGN: ELKAY MODEL LZSTL8WSBPRO	PROVIDE WITH MOUNTING FRAME ELKAY MODEL MFWS-100
P-6	MOP BASIN: FLOOR MOUNTED, 24x24, 3" STRAINER	3/4" -	3/4"	3" -	2" -	SINK: FIAT TSB100 FAUCET: FIAT 830AA000	PROVIDE WITH HOSE AND HOSE BRACKET MODEL 832AA, SS WALL GUARDS MODEL MSG, AND SS STRAINER MODEL 1453BB. PROVIDE CHECK VALVES ON CW & HW SUPPLY LINES.
P-7	HOSE BIB: INTERIOR, CHROME		1/2"			BASIS OF DESIGN: WATTS MODEL SC8-3	REMOVE HAND WHEEL FOR MAINTENANCE USE
P-7A	WALL HYDRANT: EXTERIOR, FREEZE-PROOF	"	3/4"	"	"	BASIS OF DESIGN: WATTS MODEL HY-725	PROVIDE WITH STANDARD SQUARE BOX
P-7B	ROOF HYDRANT: EXTERIOR, FREEZE-PROOF	"	3/4"	"	"	BASIS OF DESIGN: WOODFORD SRH-MS	
P-8	ICE MAKER BOX: BELOW COUNTER, INLINE COMPLIANT BACKFLOW ON SUPPLY	"	1/2"	"	"	BASIS OF DESIGN: SIOUX CHIEF 696-G1010	PROVIDE SECONDARY DRAIN BOX. FOR RATED WALLS PROVIDE 696-RG1010 ICE MAKER BOX AND FIRE RATED SECONDARY DRAIN BOX.
P-9	WASHER SUPPLY BOX: RECESSED	-	1/2"	-	-	BASIS OF DESIGN: SIOUX CHIEF 696-G2413	TOP OF WASHER BOX TO BE AT 36" AFF.
DN-1	DOWNSPOUT NOZZLE	-	-	-	-	BASIS OF DESIGN: ZURN Z199-DC	MATCH PIPE SIZE
FD-1	FLOOR DRAIN: TOILET ROOMS	-	-	3"	2"	BASIS OF DESIGN: WATTS MODEL FD-100-B	PROVIDE WITH 6" NICKEL BRONZE STRAINER
FD-2	FLOOR DRAIN: MECH. ROOM, DEEP SEAL TRAP	-	-	3"	2"	BASIS OF DESIGN: WATTS MODEL ES-WD-FD-320-5	PROVIDE WITH 8" NICKEL BRONZE STRAINER
FD-3	FLOOR DRAIN: LAUNDRY ROOMS, DEEP SEAL TRAP	-	-	SEE PLANS	2"	BASIS OF DESIGN: WATTS MODEL FD-1100-B	PROVIDE WITH 7" NICKEL BRONZE STRAINER
FS-1	FLOOR SINK: KITCHEN, PROVIDE WITH HALF-GRATE	-	-	3"	2"	BASIS OF DESIGN: WATTS MODEL FS-790	
WCO	WALL CLEAN OUT	-	-	-	-	BASIS OF DESIGN: WATTS MODEL CO-450-RD	MATCH PIPE SIZE
FCO	FLOOR CLEAN OUT	-	-	-	-	BASIS OF DESIGN: WATTS MODEL CO-200	MATCH PIPE SIZE
PRD-1	PRIMARY ROOF DRAIN	-	-	-	-	BASIS OF DESIGN: ZURN Z100F	SEE FLOOR PLANS FOR SIZE
ORD-1	OVERFLOW ROOF DRAIN	-	-	-	-	BASIS OF DESIGN: ZURN Z100F89	SEE FLOOR PLANS FOR SIZE

REMARKS

1. ACCEPTABLE MANUFACTURERS: KOHLER, ZURN, BRADLEY
2. PROVIDE FLOOR DRAINS WITH SURE SEAL MODEL SS3009V OR EQUAL
3. PROVIDE ALL FLOOR SINKS WITH 1/2 GRATES.
4. SEE FLOOR PLANS FOR SIZE OF FLOOR DRAINS AND ROOF DRAINS.
5. PROVIDE ALL SINKS AND LAVATORIES WITH ADA PIPE COVERS.
6. PROVIDE ALL SINKS WITH P-TRAPS, SUPPLIES, AND STOPS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
CW	COLD WATER
HW	HOT WATER - 120°
HWR	110° HOT WATER RECIRCULATION
V	VENT
SAN	SANITARY SEWER
G	NATURAL GAS
	FLOW ARROW
	WALL HYDRANT/HOSE BIBB
	SHUT-OFF VALVE
	HWR CIRCUIT SETTER OR GAS COCK
	CHECK VALVE
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
C.O.T.G	CLEANOUT TO GRADE
VTR	VENT THRU ROOF
AVTR	ACID VENT THRU ROOF
DROP, RISE	DROP OR RISE
	CAPPED CONNECTION
FD	FLOOR DRAIN
	VALVE IN RISER DETAIL
8 / P0.04	SYMBOL INDICATING THE DETAIL NUMBER AND THE DETAIL LOCATION SHEET REFERENCE
	BALL VALVE
S	SOLENOID VALVE
CW	COLD WATER
HW	HOT WATER
BFF	BELOW FINISHED FLOOR
AFF	ABOVE FINISHED FLOOR
WHA	WATER HAMMER ARRESTOR
FD	FLOOR DRAIN
DN.	DOWN
	GLOBE VALVE
	PRESSURE REDUCING VALVE
PRD	PRIMARY ROOF DRAINAGE PIPING
ORD	OVERFLOW ROOF DRAINAGE PIPING
PD	PUMPED DISCHARGE
	LIMIT OF DEMOLITION
	POINT OF CONNECTION

NOTE: NOT ALL SYMBOLS MAY BE APPLICABLE TO THIS PROJECT.

BUILDING LOADS

NATURAL GAS:	4338MBH CFH AT 2 PSI.
DOMESTIC WATER:	335 ANTICIPATED GPM DEMAND.
SANITARY:	1124 ANTICIPATED DRAINAGE FIXTURE UNITS.
STORM:	MULTIPLE OUTLETS (SEE PLANS)

GENERAL NOTES

1. ALL OPENINGS FOR PIPING PENETRATIONS ARE GENERALLY PROVIDED BY THE PLUMBING SUB-CONTRACTOR.EXCEPTIONS ARE COVERED BY NOTES AND DETAILS. THE LOCATION AND SIZE OF EACH OPENING SHALL BE FURNISHED TO THE GENERAL CONTRACTOR BY THE PLUMBING SUB-CONTRACTOR.
2. PIPE HANGERS AND CONCRETE INSERTS UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE PLUMBING SUB-CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC.
3. UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT, NO BURIED PIPING UNDER THE SLAB SHALL BE INSTALLED WITHIN THE FOOTING BEARING.
4. SLEEVES FOR PIPING PASSING THROUGH BELOW SLAB FOUNDATION WALLS SHALL BE COORDINATED AND PROVIDED BY THE PLUMBING SUB-CONTRACTOR.
5. ALL LINTELS REQUIRED IN MASONRY AND STUD WALLS FOR PIPING PENETRATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
6. COORDINATE VERTICAL PIPING WITH ARCHITECTURAL PLANS FOR EXACT LOCATION OF RISER.
7. UNLESS APPROVED BY THE ENGINEER, NO HORIZONTAL PIPING IN THE MECHANICAL ROOM, SHALL BE INSTALLED WITH A BOTTOM OF PIPE ELEVATION BELOW 8'-0"AFF.
8. ALL BURIED PRESSURE PIPING SHALL BE A MINIMUM OF 24" BELOW FINISHED GRADE TO TOP OF PIPE.
9. INSTALL ALL HANDICAP TOILET FLUSH VALVES ON THE WIDE SIDE OF THE TOILET.
10. COORDINATE THE INVERT ELEVATIONS WITH THE SITE UTILITY DRAWINGS. THE INVERT INDICATED ON THE PLUMBING DRAWINGS IS THE MINIMUM INVERT TO EXIT THE BUILDING. THE PLUMBING SUB-CONTRACTOR SHALL COORDINATE, VERIFY AND PROVIDE THE INVERT ELEVATIONS ON THE COORDINATION DRAWINGS.
11. THE PLUMBING SUB-CONTRACTOR IS REQUIRED TO COMPLETELY ROD AND FLUSH OUT ALL SANITARY, GREASE WASTE PIPING AFTER THE BUILDING IS COMPLETED.
12. ALL PLUMBING VENTS SHALL BE INSTALLED AT A MINIMUM OF 15'-0" FROM ANY FRESH AIR INTAKES.
13. REFER TO THE SPECIFICATIONS FOR WATER SUPPLY AND P-TRAP INSULATION REQUIRED FOR ALL EXPOSED ADA SINK AND LAVATORY LOCATIONS.
14. PROVIDE GROUT AROUND WATER CLOSETS. CAULK IS NOT PERMITTED.
15. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.
16. ALL UNDERGROUND NON-METALLIC AND METALLIC PIPE MUST BE MARKED AND IDENTIFIED WITH TRACER WIRE TAPE. INSTALL TRACER WIRE A MINIMUM 18" ABOVE THE PIPE.
17. ALL NATURAL GAS PIPING BY PLUMBING CONTRACTOR.
18. PROVIDE LABEL ON CEILING GRID FOR ALL VALVE LOCATIONS. SEE SPECIFICATIONS FOR DETAILS. COORDINATE LABEL TYPE AND COLOR WITH ARCHITECT.
19. A DRIP PAN SHALL BE INSTALLED UNDER PIPING WHERE PIPING RUNS OVER A CABLE TRAY.
20. SEE STRUCTURAL PLANS FOR SEISMIC DESIGN CATEGORY. PROVIDE BRACING PER ASCE 7.
21. WHERE DEVICES ARE TO BE CONCEALED IN WALLS OR ABOVE NON-REMOVABLE CEILINGS, THE PLUMBING CONTRACTOR SHALL FURNISH THE REQUIRED ACCESS PANELS TO THE GC FOR INSTALLATION FOR THEIR RESPECTIVE EQUIPMENT. PANELS SHALL BE 12" X 12" SQUARE FOR ALL WALL PANELS AND 24" X 24" FOR CEILING PANELS.
22. PROVIDE A WALL CLEANOUT AT THE BASE OF ALL WASTE AND STORM RISERS. PROVIDE A WALL CLEANOUT AT THE BASE OF ALL VENT VERTICAL PIPING THAT CONNECTS TO THE TOP OF THE WASTE PIPE.

WATER HEATER SCHEDULE - GAS

MARK	MANUFACTURER	MODEL #	SERVICE	RECOVERY @ 100ºF RISE (GPH)	NATURAL GAS INPUT (MBH)	ALLOWABLE GAS PRESSURE RANGE (" WC)	VOLTAGE (V)	PHASE (Ph)	REMARKS
GWH- 1-12	NAVIEN	NPE-240A	DOMESIC HOT WATER	234	199.0	-0.03 " to -0.96 "	120 V	1	ALL

REMARKS

1. ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.
2. INSTANTANEOUS, CONDENSING TYPE, GAS-FIRED WATER HEATER, 96% EFFICIENT
3. PROVIDE WITH RACK MOUNT AND APPROPRIATE MANIFOLD SYSTEM FROM MANUFACTURER.
4. FURNISH WITH CONDENSATE NEUTRALIZATION KIT.
5. INTEGRATE THE WATER HEATERS WITH THE CAMPUS BAS SYSTEM.
6. COORDINATE DRAIN LOCATION WITH ARCHITECT.
7. SET OUTLET TEMPERATURE TO 120F.

PUMP SCHEDULE - DOMESTIC HOT WATER RECIRCULATION

MARK	MANUFACTURER	MODEL	SERVICE	GPM	PUMP HEAD (FT)	MOTOR (HP)	VOLTAGE (V)	PHASE (Ph)	REMARKS
RP-1	B&G	PL-36	DHW	20	15	0.167	115 V	1	ALL

REMARKS

1. ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.
2. FURNISH WITH ELECTRICAL DISCONNECT.
3. PROVIDE WITH FULLY ADJUSTABLE AQUASTAT CONTROL.

BACKFLOW PREVENTOR SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL	DESCRIPTION	NOTES
RPZ-1	DOMESTIC WATER	WATTS	LF909 LARGE	REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY WITH TWO INDEPENDENTLY OPERATING, SPRING LOADED, "Y" PATTERN CHECK VALVES AND ONE HYDRAULICALLY DEPENDENT DIFFERENTIAL RELIEF VALVE. PROVIDE WITH AIR GAP DRAIN FITTING.	ALL
RPZ-2	MECHANICAL FILL LINE	WATTS	LF909 SMALL	REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY WITH TWO INDEPENDENTLY OPERATING, SPRING LOADED, "Y" PATTERN CHECK VALVES AND ONE HYDRAULICALLY DEPENDENT DIFFERENTIAL RELIEF VALVE. PROVIDE WITH AIR GAP DRAIN FITTING.	ALL

REMARKS

1. ACCEPTABLE MANUFACTURERS: ZURN, FEBCO, AMES

SUMP PUMP SCHEDULE

TAG	SERVICE	MANUFACTURER AND MODEL	FLOW (GPM)	FT. OF HEAD	HP	VOLTS/PHASE	RPM	NOTES
SP-1	ELEVATOR PIT	LIBERTY MODEL FL51M	50	20	1/2	120/1	3500	ALL
SP-2	ELEVATOR PIT	LIBERTY MODEL FL51M	50	20	1/2	120/1	3500	ALL

REMARKS

1. PROVIDE WITH SUMP PUMP CONTROL PANEL.
2. DRAIN INDIRECTLY TO LOCATIONS SHOWN ON PLAN.
3. ACCEPTABLE MANUFACTURERS: ZOELLER, MYERS, GOULDS

LINT INTERCEPTOR SCHEDULE

SYMBOL	LOCATION	LIQUID CAPACITY (GAL)	MANUFACTURER	MODEL	NOTES
LI-1	OUTSIDE MENS 1215	100	MIFAB	MI-LINT-3-HD-VC	ALL
LI-2	OUTSIDE WOMENS 1207	100	MIFAB	MI-LINT-3-HD-VC	ALL

REMARKS

1. INTERCEPTOR SHALL BE RATED FOR PLENUM INSTALLATION.
2. PROVIDE WALL ACCESS PANEL FOR MAINTENANCE AND CLEANING.
3. ORDER WITH 4" INLET/OUTLETS.
4. ALTERNATIVIE MANUFACTURERS: ZURN, MIFAB, J.R. SMITH

PUMP SCHEDULE - DOMESTIC WATER BOOSTER

MARK	MANUFACTURER	MODEL	SERVICE	GPM	SUCTION PRESSURE	DISCHARGE PRESSURE	MOTOR HP (HP)	VOLTAGE (V)	PHASE (Ph)	FLA	MCA	MOCP	REMARKS
DWBP-1	HYFAB	MVP-8100-460	DOMESTIC WATER	260	42 PSI	113 PSI	10 HP	460	3	28 A	31.5 A	45.5 A	ALL

REMARKS:

1. PACKAGE SHALL BE CONSTRUCTED ON A RIGID STRUCTURAL STEEL BASE AND PUMP/MOTORS SHALL BE SUPPORTED BY STRUCTURE.
2. HEADERS SHALL BE 4 INCH 304 STAINLESS STEEL WITH GROOVED CONNECTIONS ON BOTH ENDS. ONE END OF EACH HEADER SHALL BE CAPPED WITH A GROOVED CAP AND COUPLING.
3. SUCTION AND DISCHARGE CONNECTIONS MAY EACH BE MADE ON EITHER SIDE(I.E. LEFT OR RIGHT).
4. BOOSTER SHALL BE SUPPLIED WITH SERVICEABLE PILOT OPERATED ANGLE CHECK VALVES EQUAL TO CLA-VAL 81 SERIES.
5. FURNISH VARIABLE SPEED CONTROLLER WITH SUCTION AND DISCHARGE PRESSURE TRANSMITTERS AND DISCHARGE TEMPERATURE SENSOR.
6. FURNISH CONTROLS IN NEMA 1 ENCLOSURE.
7. FURNISH LOW SUCTION PRESSURE SHUTDOWN.
8. FURNISH SINGLE POINT POWER CONNECTION WITH MAIN DISCONNECT
9. BOOSTER PUMP SYSTEM SHALL BE TIED INTO THE CAMPUS JACE. THE CAMPUS JACE SHALL ALARM WHEN A PUMP FAILS TO ENERGIZE WHEN COMMANDED TO. THE BAS SHALL NOT CONTROL THE PUMP PACKAGE.

SHEET LIST - PLUMBING

SHEET #	SHEET NAME
P001	PLUMBING LEGEND, SCHEDULES, & NOTES
P101A	PLUMBING DOMESTIC WATER PLAN - LEVEL 01 - AREA A
P101B	PLUMBING DOMESTIC WATER & GAS PLAN - LEVEL 01 - AREA B
P102A	PLUMBING DOMESTIC WATER PLAN - LEVEL 02 - AREA A
P102B	PLUMBING DOMESTIC WATER PLAN - LEVEL 02 - AREA B
P103A	PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - AREA A
P103B	PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - AREA B
P104A	PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - AREA A
P104B	PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - AREA B
P105A	PLUMBING DOMESTIC WATER PLAN - LEVEL 05 - AREA A
P105B	PLUMBING DOMESTIC WATER PLAN - LEVEL 05 - AREA B
P201A	PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA A
P201B	PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA B
P202A	PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA A
P202B	PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA B
P203A	PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA A
P203B	PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA B
P204A	PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA A
P204B	PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA B
P205A	PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA A
P205B	PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA B
P206A	PLUMBING WASTE/VENT PLAN - ROOF - AREA A
P206B	PLUMBING WASTE/VENT PLAN - ROOF - AREA B
P603A	PLUMBING ENLARGED LAUNDRY PLANS - AREA A
P603B	PLUMBING ENLARGED LAUNDRY PLANS - AREA B
P604	PLUMBING DOMESTIC WATER ENLARGED PLANS - LEVEL 01 - AREA B
P605	PLUMBING WASTE/VENT ENLARGED PLAN - LEVEL 01 - AREA B
P606	PLUMBING ENLARGED PLANS - LEVEL 01 - AREA A
P607	PLUMBING ENLARGED PLANS - LEVEL 01 - AREA B
P608	PLUMBING WASTE/VENT- ENLARGED BATHROOM STACK PLANS/ ISOMETRICS (TYP)
P609	PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLANS/ ISOMETRIC - LEVEL 01 & 02 (TYP)
P610	PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLANS/ ISOMETRIC - LEVEL 03 & 04 (TYP)
P611	PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLAN/ ISOMETRIC - LEVEL 05 (TYP)
P612	PLUMBING DOMESTIC WATER - ENLARGED LOUNGE STACK PLAN/ ISOMETRIC - AREA A
P613	PLUMBING DOMESTIC WATER - ENLARGED KITCHEN LOUNGE STACK PLAN/ ISOMETRIC - AREA B
P614	PLUMBING WASTE/VENT - ENLARGED LOUNGE STACK PLAN/ ISOMETRIC - AREA A
P615	PLUMBING WASTE/VENT - ENLARGED KITCHEN LOUNGE STACK PLAN/ ISOMETRIC - AREA B
P901	PLUMBING DETAILS
P902	PLUMBING DETAILS
P903	PLUMBING DETAILS

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

01.15.2026

NO.	REASON	DATE

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
REBECCA CLEWETT

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
HOUSING VILLAGE PHASE 3

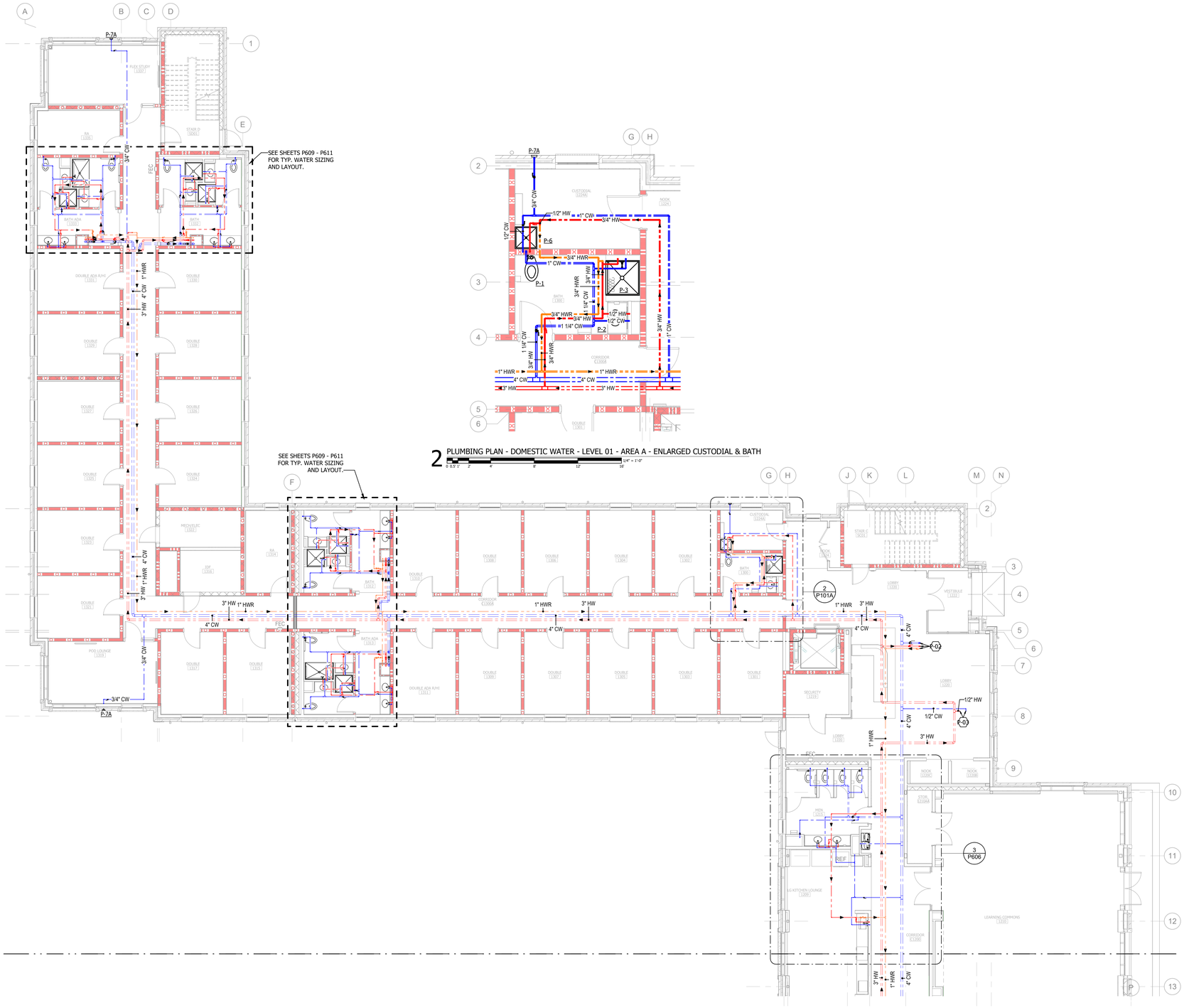
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PLUMBING LEGEND, SCHEDULES, & NOTES

P001

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2 PLUMBING PLAN - DOMESTIC WATER - LEVEL 01 - AREA A - ENLARGED CUSTODIAL & BATH

1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 01 - AREA A

SHEET KEYED NOTES

P-02 2-1/2" CW UP, 2" HW UP, AND 3/4" HWR DOWN FROM ABOVE.

P-03 1/2" CW AND 1/2" HW UP TO SERVE SINK IN LAUNDRY ROOM. SHUT OFF VALVES TO BE LOCATED IN CASE WORK ABOVE.

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING HEIGHTS. NOT ALL OFFSETS ARE SHOWN TO ACCOMMODATE CHANGES IN CEILING HEIGHTS. COORDINATE WORK AND OFFSET PIPING AS REQUIRED.
3. COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEM WITH THE STRUCTURE, DUCTWORK, SPRINKLER PIPING, LIGHTING, ETC. PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
4. ALL VENT-THRU-ROOF PENETRATIONS ARE TO BE INSTALLED A MINIMUM OF 10'-0" FROM ANY BUILDING INTAKE.
5. INSULATE ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAIN PIPING. INSULATION SHALL TERMINATE A MINIMUM OF 24-INCHES BEYOND THE TRANSITION TO THE VERTICAL CONDUCTOR.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

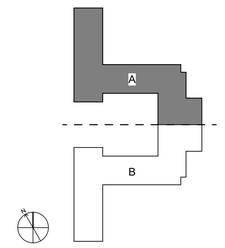
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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PROJECT NAME
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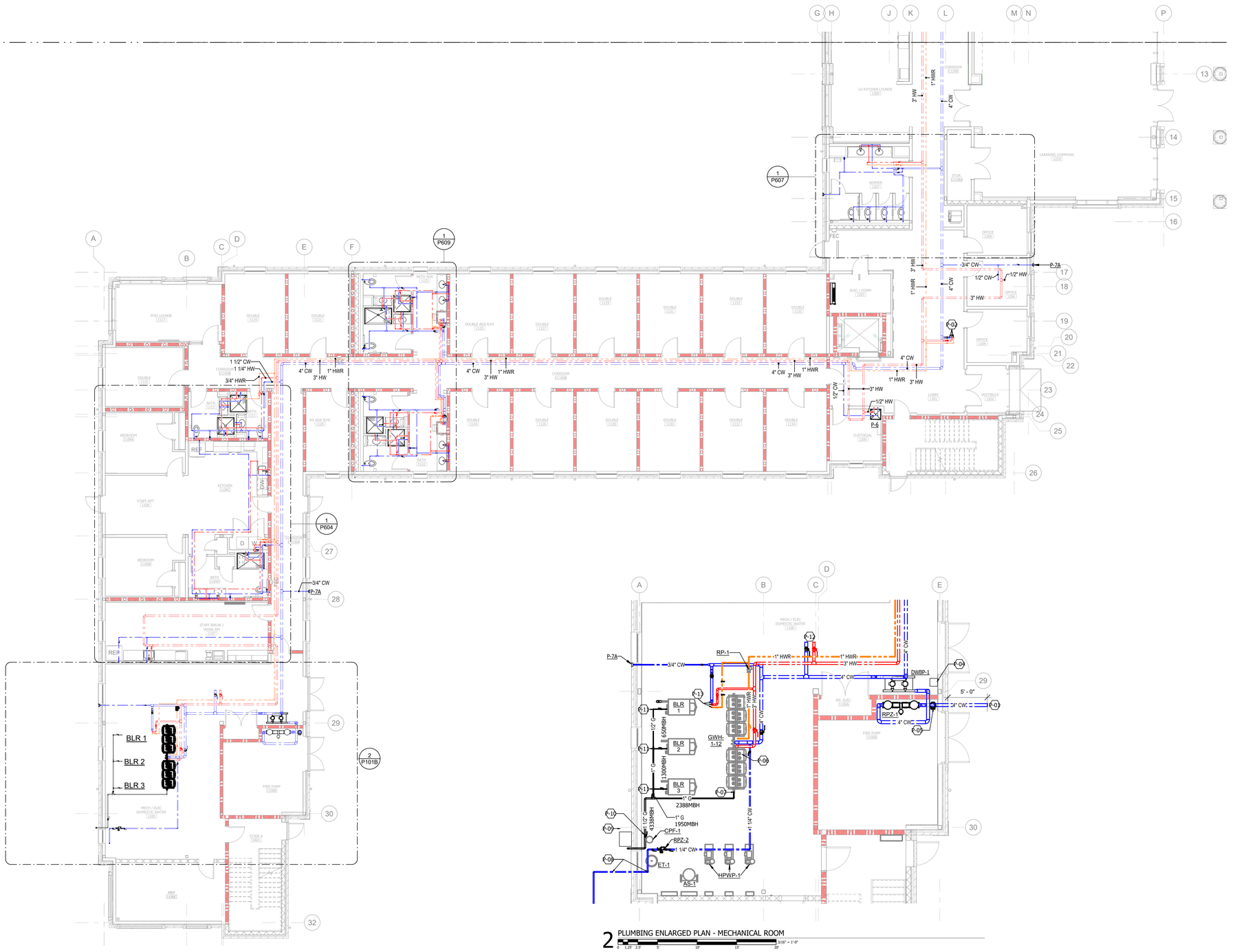
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER PLAN - LEVEL 01 - AREA A

SHEET NUMBER
P101A

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1 PLUMBING PLAN - DOMESTIC WATER & GAS - LEVEL 01 - AREA B

2 PLUMBING ENLARGED PLAN - MECHANICAL ROOM

SHEET KEYED NOTES

P-01	4" CW LINE. SEE SITE CIVIL FOR CONTINUATION.
P-02	2-1/2" CW UP, 2" HW UP, AND 3/4" HWR DOWN FROM ABOVE.
P-04	EMERGENCY GAS SHUT OFF BUTTON, TIED TO THE GAS SOLENOID VALVE. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
P-05	COMPOUND WATER METER TO BE NEPTUNE OR EQUAL.
P-06	REFER TO M101B FOR BOILER FLUES AND INTAKE AIR LOCATIONS.
P-07	1" GAS LINE DOWN TO GAS MANIFOLD TO SERVE EACH GAS WATER HEATER. PROVIDE VENTLESS GAS REGULATOR AND SHUT OFF VALVE FOR EACH GAS WATER HEATER IN ACCESSIBLE LOCATION.
P-08	1-1/4"CW ROUTED, MINIMUM 3', UNDERGROUND AND TO CT-1. SEE SHEET M012 FOR CONTINUATION.
P-09	APPROXIMATE LOCATION OF NEW GAS METER AND REGULATOR. METER AND REGULATOR TO BE SET BY LOCAL GAS COMPANY. GAS PRESSURE TO SERVE BUILDING TO BE 2PSI.
P-10	SOLENOID VALVE INTERLOCKED WITH EMERGENCY GAS SHUTDOWN BUTTON.
P-11	1/2"G LINE (650MBH) DOWN TO BOILER. PROVIDE VENTLESS GAS REGULATOR AND SHUTOFF VALVE IN ACCESSIBLE LOCATION.
P-12	4" CW & 3" HW CAPPED FOR FUTURE.
P-13	3" CW UP, 2" HW UP, AND 3/4" HWR DOWN FROM ABOVE.

GENERAL NOTES - PLUMBING

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

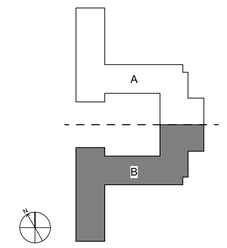
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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SCO # 24-29053-02D

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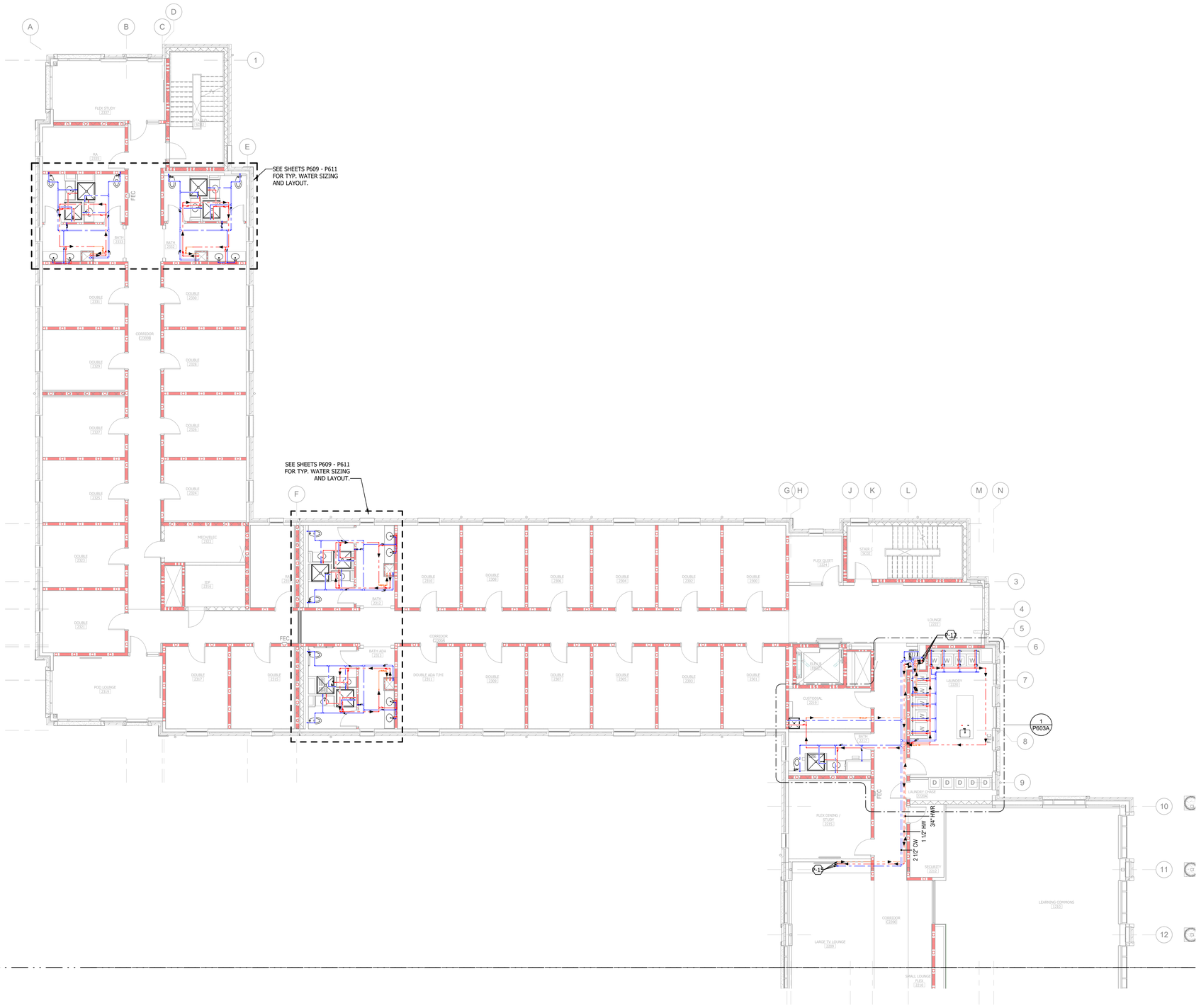
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER & GAS PLAN - LEVEL 01 - AREA B

SHEET NUMBER
P101B

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 02 - AREA A

1" = 1'-0"

SHEET KEYED NOTES

P-15 2-1/2" CW UP, 1-1/2" HW UP, AND 3/4" HWR FROM ABOVE

P-17 2-1/2" CW FROM BELOW, 2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 2" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

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2-HR FIRE BARRIER

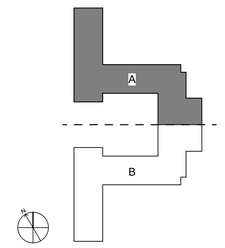
1-HR FIRE BARRIER

FIRE PARTITIONS

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.5-HR FIRE PARTITION

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PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: REBECCA CLEWETT

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

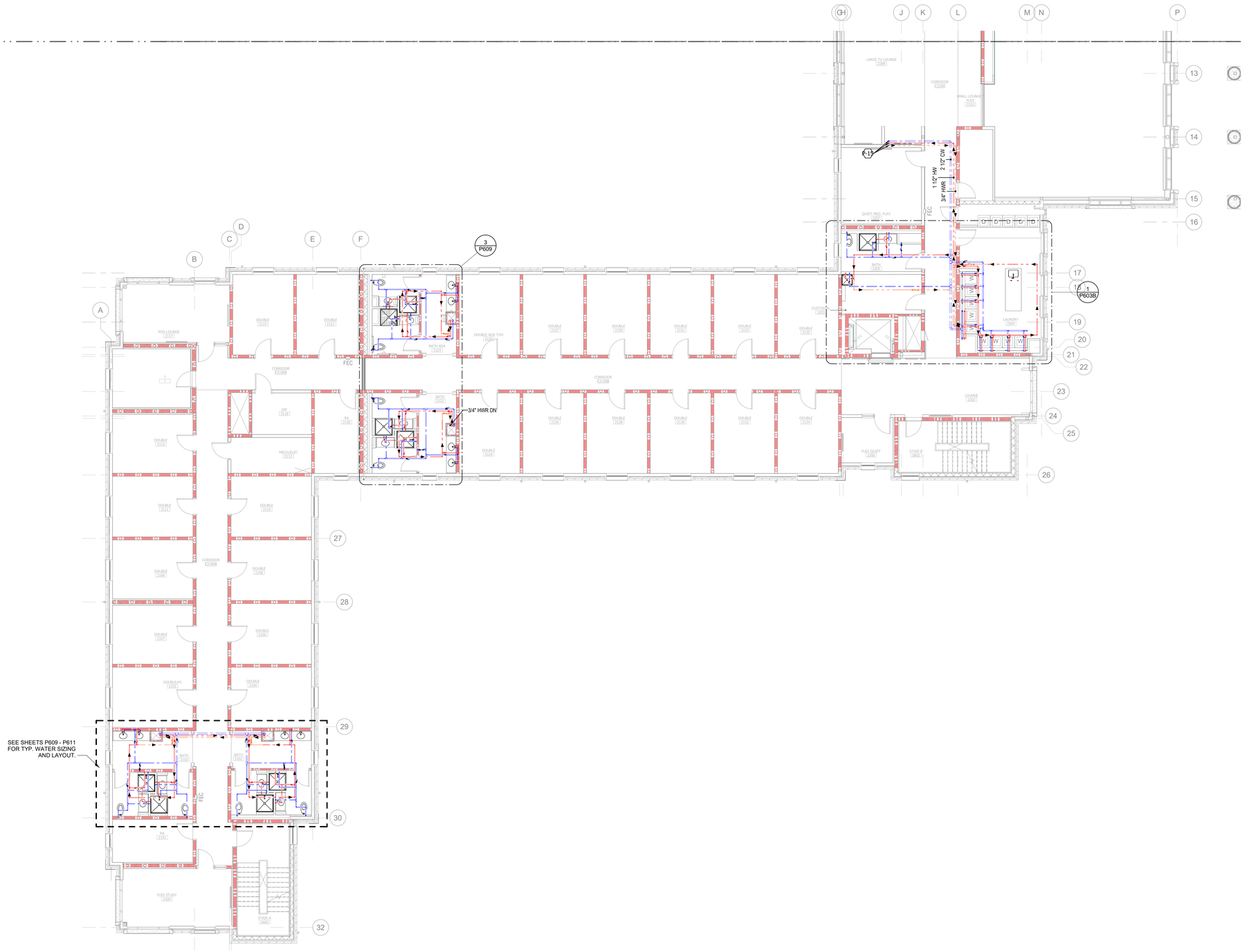
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PROJECT NO.: 514.23018.00

SHEET TITLE: PLUMBING DOMESTIC WATER PLAN - LEVEL 02 - AREA A

SHEET NUMBER: P102A

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 02 - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

P-15 2-1/2" CW UP, 1-1/2" HW UP, AND 3/4" HWR FROM ABOVE

GENERAL NOTES - PLUMBING

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

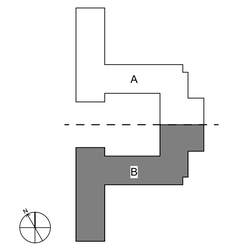
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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DESIGN TEAM
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PROJECT NAME
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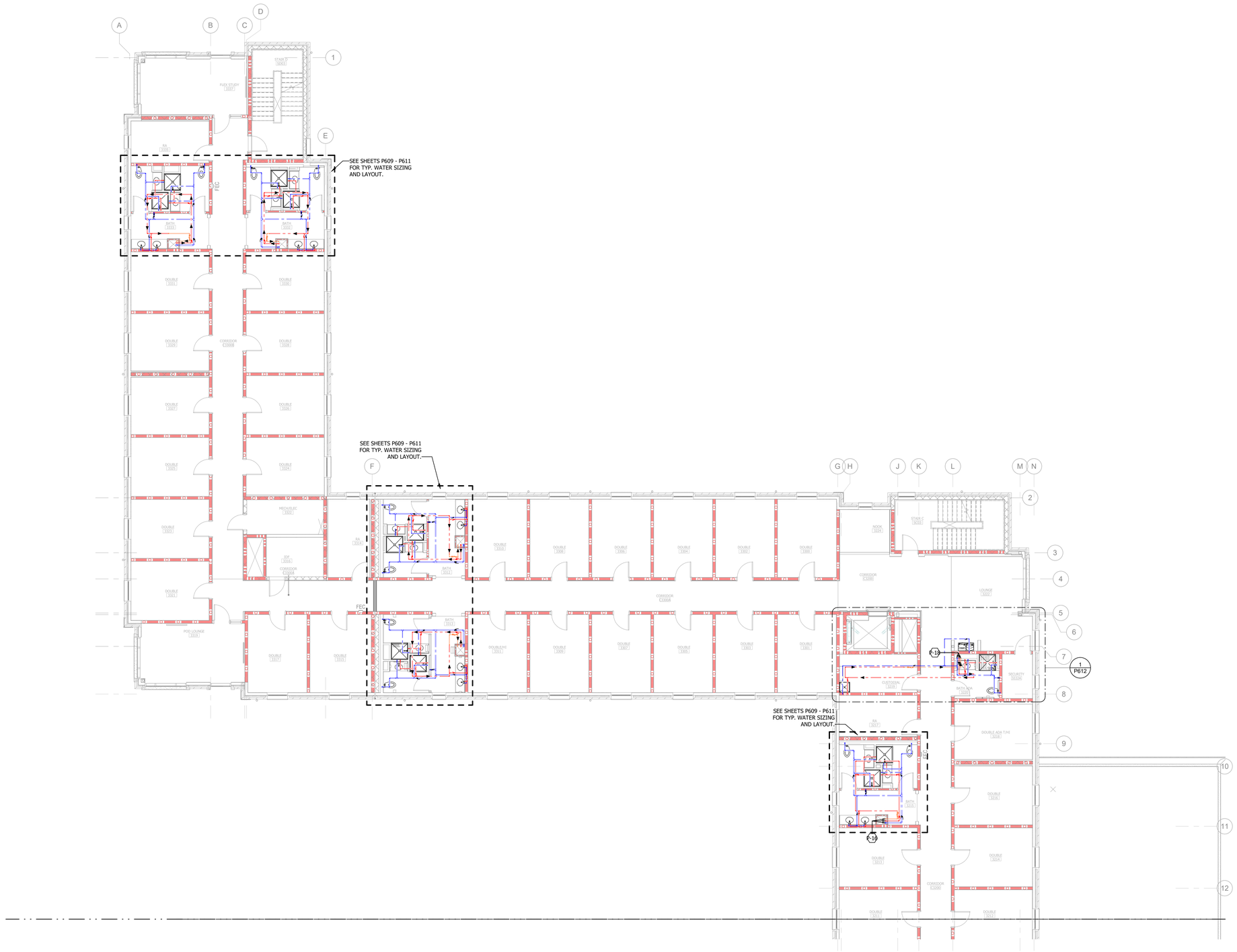
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER PLAN - LEVEL 02 - AREA B

SHEET NUMBER
P102B

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 03 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

P-16 2" CW FROM BELOW, 1-1/2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 1-1/2" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

P-18 2" CW FROM BELOW, 2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 1-1/4" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

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2-HR FIRE BARRIER

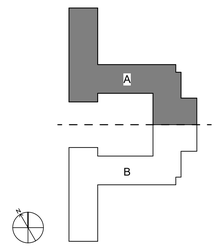
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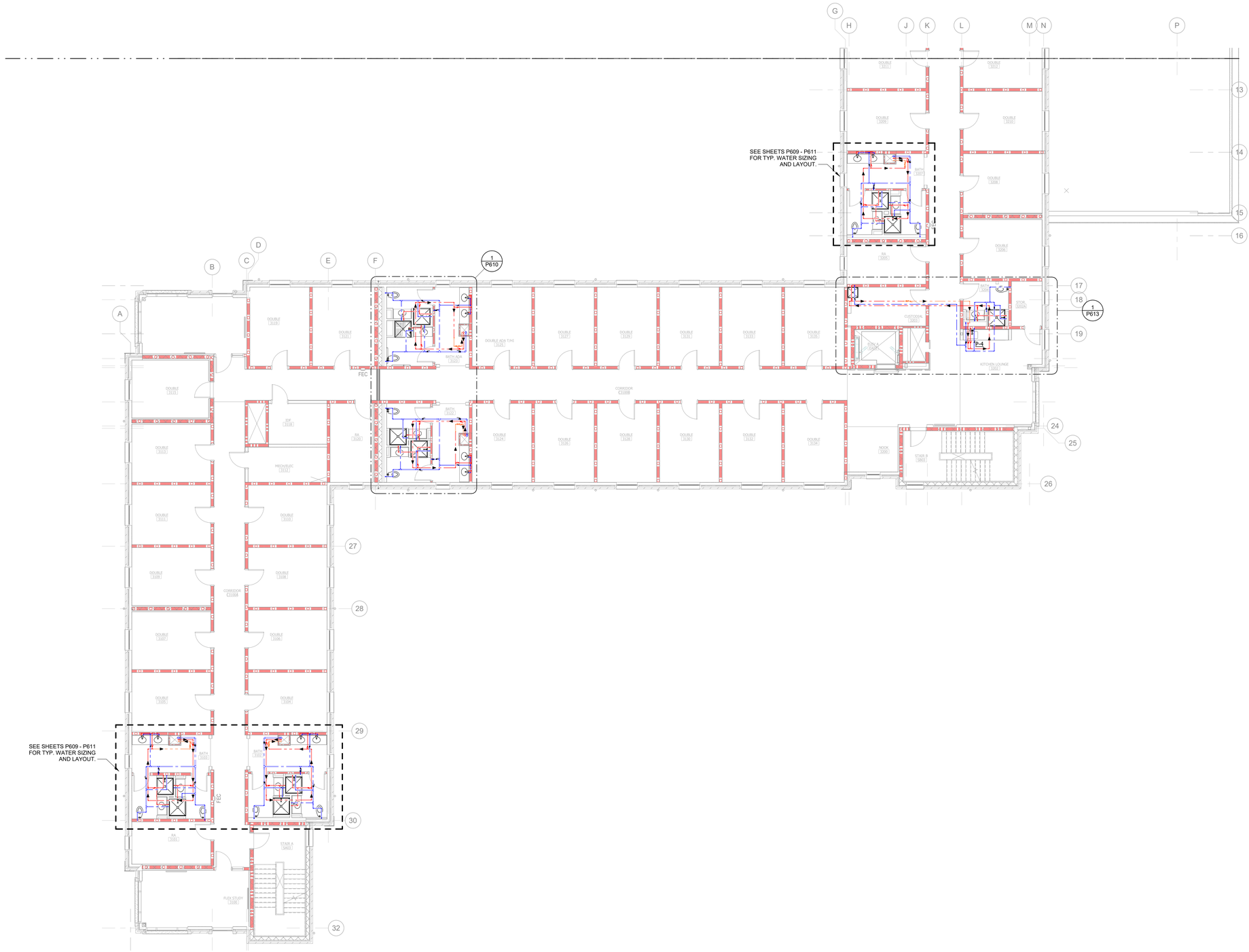
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PROJECT NO.: 514.23018.00

SHEET TITLE: PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - AREA A

SHEET NUMBER: P103A

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 03 - AREA B

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

(##)

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

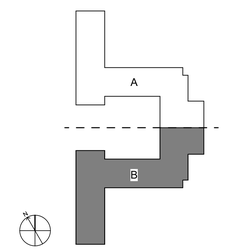
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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REBECCA CLEWETT

PROJECT NAME
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UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - AREA B

SHEET NUMBER
P103B

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 04 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

P-19 2" CW FROM BELOW, 1-1/4" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 1" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

P-20 2" CW FROM BELOW, 1-1/2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 1-1/4" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING HEIGHTS. NOT ALL OFFSETS ARE SHOWN TO ACCOMMODATE CHANGES IN CEILING HEIGHTS. COORDINATE WORK AND OFFSET PIPING AS REQUIRED.
3. COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEM WITH THE STRUCTURE, DUCTWORK, SPRINKLER PIPING, LIGHTING, ETC. PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
4. ALL VENT-THRU-ROOF PENETRATIONS ARE TO BE INSTALLED A MINIMUM OF 10'-0" FROM ANY BUILDING INTAKE.
5. INSULATE ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAIN PIPING. INSULATION SHALL TERMINATE A MINIMUM OF 24-INCHES BEYOND THE TRANSITION TO THE VERTICAL CONDUCTOR.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

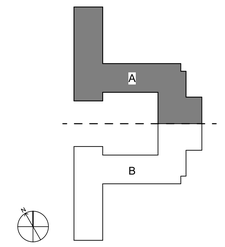
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - AREA A

SHEET NUMBER
P104A

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 04 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING HEIGHTS. NOT ALL OFFSETS ARE SHOWN TO ACCOMMODATE CHANGES IN CEILING HEIGHTS. COORDINATE WORK AND OFFSET PIPING AS REQUIRED.
3. COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEM WITH THE STRUCTURE, DUCTWORK, SPRINKLER PIPING, LIGHTING, ETC. PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
4. ALL VENT-THRU-ROOF PENETRATIONS ARE TO BE INSTALLED A MINIMUM OF 10'-0" FROM ANY BUILDING INTAKE.
5. INSULATE ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAIN PIPING. INSULATION SHALL TERMINATE A MINIMUM OF 24-INCHES BEYOND THE TRANSITION TO THE VERTICAL CONDUCTOR.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

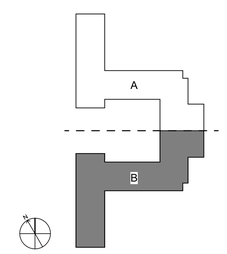
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - AREA B

SHEET NUMBER
P104B

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1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 05 - AREA A
1/8" = 1'-0"

SHEET KEYED NOTES

P-21 2" CW FROM BELOW, 1-1/4" HW FROM BELOW, AND 3/4" HWR DOWN.

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

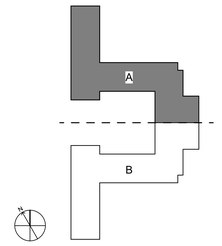
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

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PRINCIPAL IN CHARGE	JAMES CURRIE, PE
PROJECT MANAGER	DAN KNOX, PE
DESIGN TEAM	REBECCA CLEWETT

PROJECT NAME

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.

514.23018.00

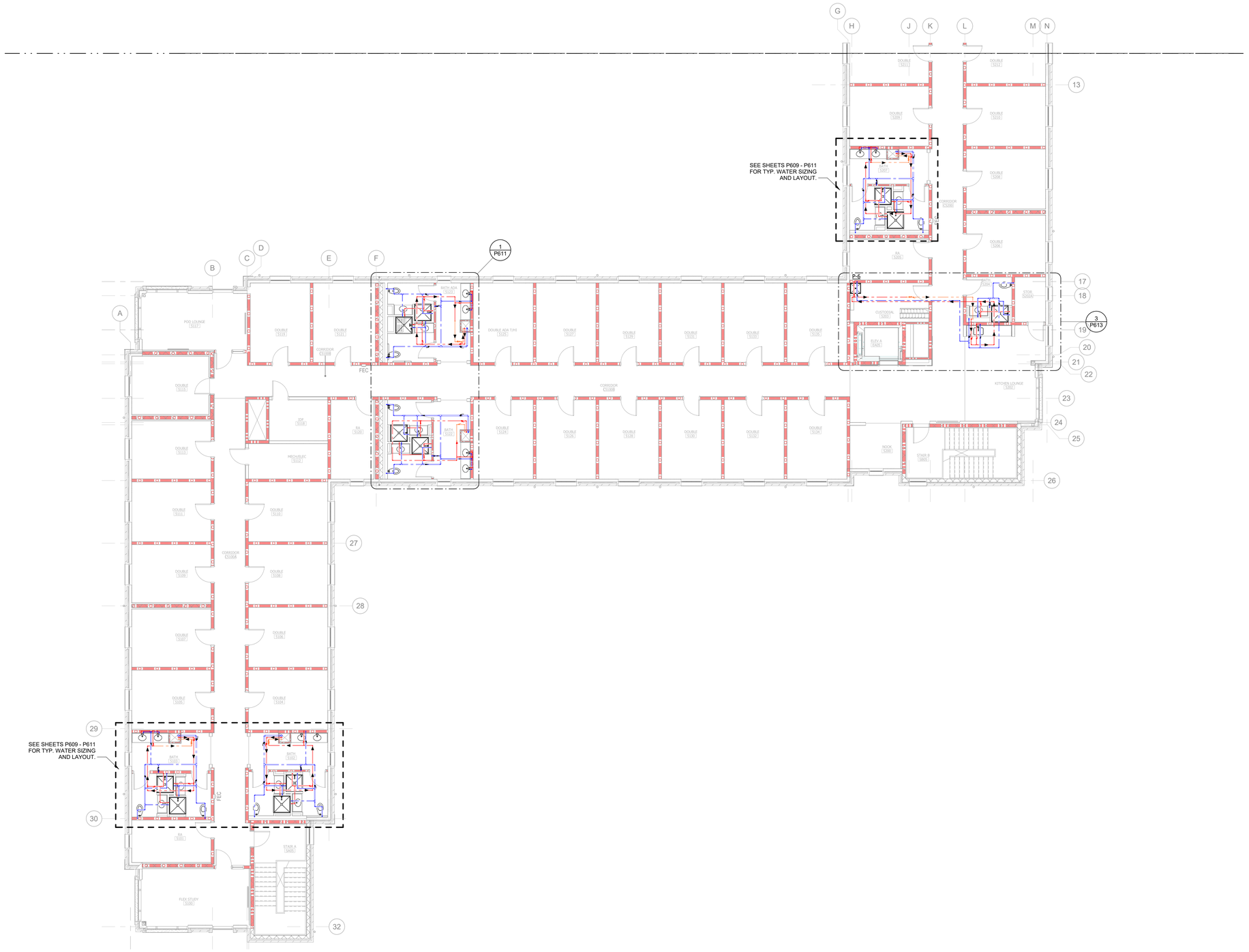
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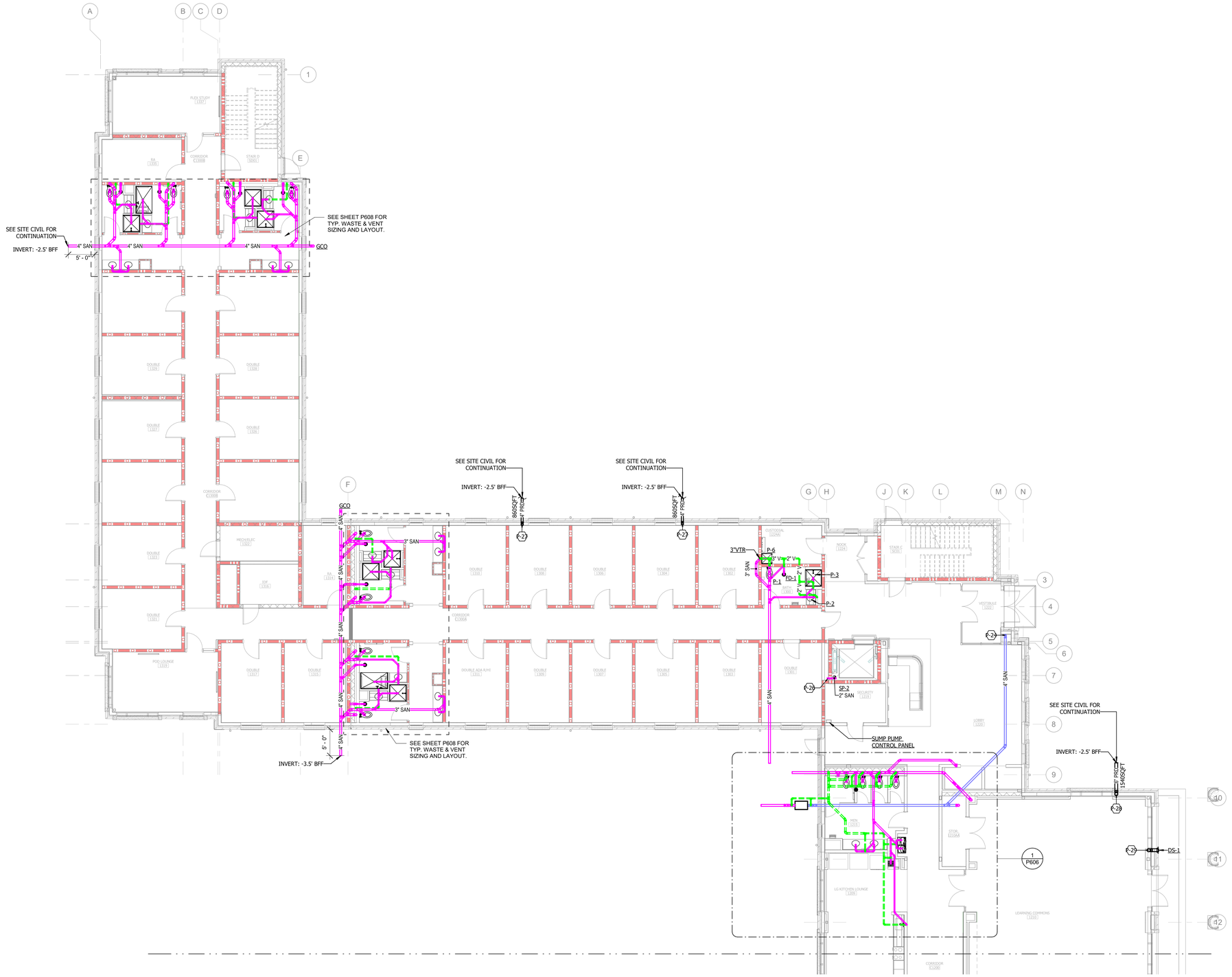
PLUMBING DOMESTIC WATER PLAN - LEVEL 05 - AREA A

SHEET NUMBER

P105A

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SEE SHEETS P609 - P611 FOR TYP. WATER SIZING AND LAYOUT.
SEE SHEETS P609 - P611 FOR TYP. WATER SIZING AND LAYOUT.
1 P611
3 P613
P-5
FEC
CORRIDOR 5100B
KITCHEN LOUNGE 5200
NOOK 5300
STAIR B 5400
STAIR A 5400
FLEX STUDY 5100U
RA 5100U
CUSTODIAL 5007
ELEV A 5400
STOR 5200K
MECH/ELEC 5101
JOY 5118
POD LOUNGE 5112
BATH ADA 5113
BATH 5102
DOUBLE ADA T/H3 5106
DOUBLE 5107
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DOUBLE 5123
DOUBLE 5124
DOUBLE 5125
DOUBLE



1 PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

- P-24 4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
- P-26 ROUTE SUMP PUMP DRAINAGE LINE UP TO ABOVE CEILING AND DRAIN INDIRECTLY INTO MOP SINK.
- P-27 4" PRD DOWN FROM ABOVE.
- P-28 6" PRD DOWN FROM ABOVE.
- P-29 6" ORD DOWN FROM ABOVE. TERMINATE AT MIN. 24" AFF VIA DS-1.

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING HEIGHTS. NOT ALL OFFSETS ARE SHOWN TO ACCOMMODATE CHANGES IN CEILING HEIGHTS. COORDINATE WORK AND OFFSET PIPING AS REQUIRED.
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5. INSULATE ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAIN PIPING. INSULATION SHALL TERMINATE A MINIMUM OF 24-INCHES BEYOND THE TRANSITION TO THE VERTICAL CONDUCTOR.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

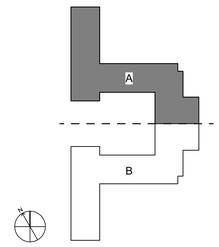
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

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PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: REBECCA CLEWETT

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

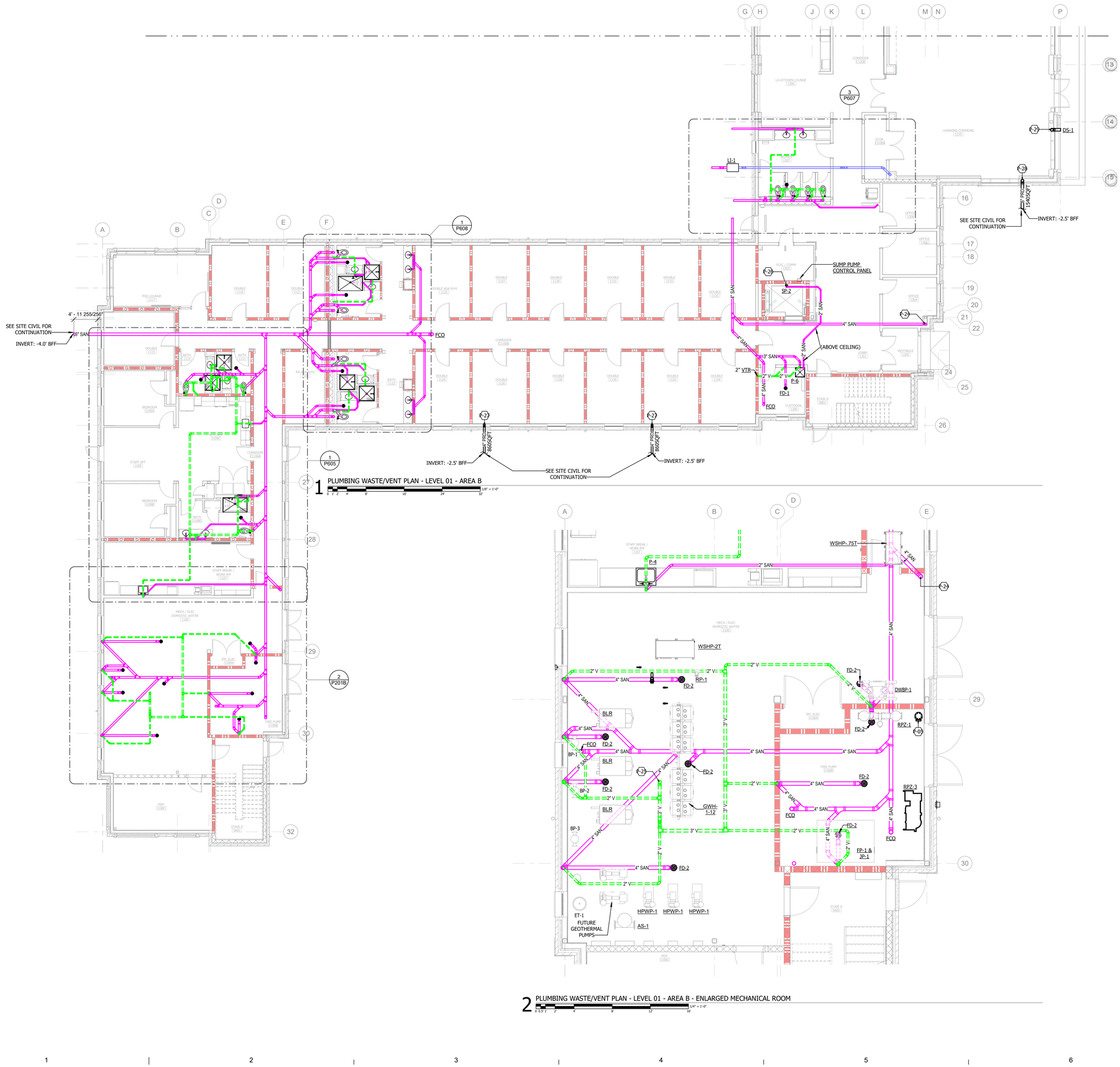
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA A

SHEET NUMBER: P201A

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SHEET KEYED NOTES

- P-05 COMPOUND WATER METER TO BE NEPTUNE OR EQUAL.
- P-24 4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
- P-25 3"VENT LINE UP.
- P-26 ROUTE SUMP PUMP DRAINAGE LINE UP TO ABOVE CEILING AND DRAIN INDIRECTLY INTO MOP SINK.
- P-27 4" PRD DOWN FROM ABOVE.
- P-28 6" PRD DOWN FROM ABOVE.
- P-29 6" ORD DOWN FROM ABOVE. TERMINATE AT MIN. 24" AFF VIA DS-1.

GENERAL NOTES - PLUMBING

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

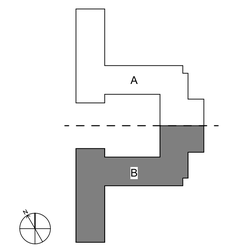
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

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PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: REBECCA CLEWETT

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

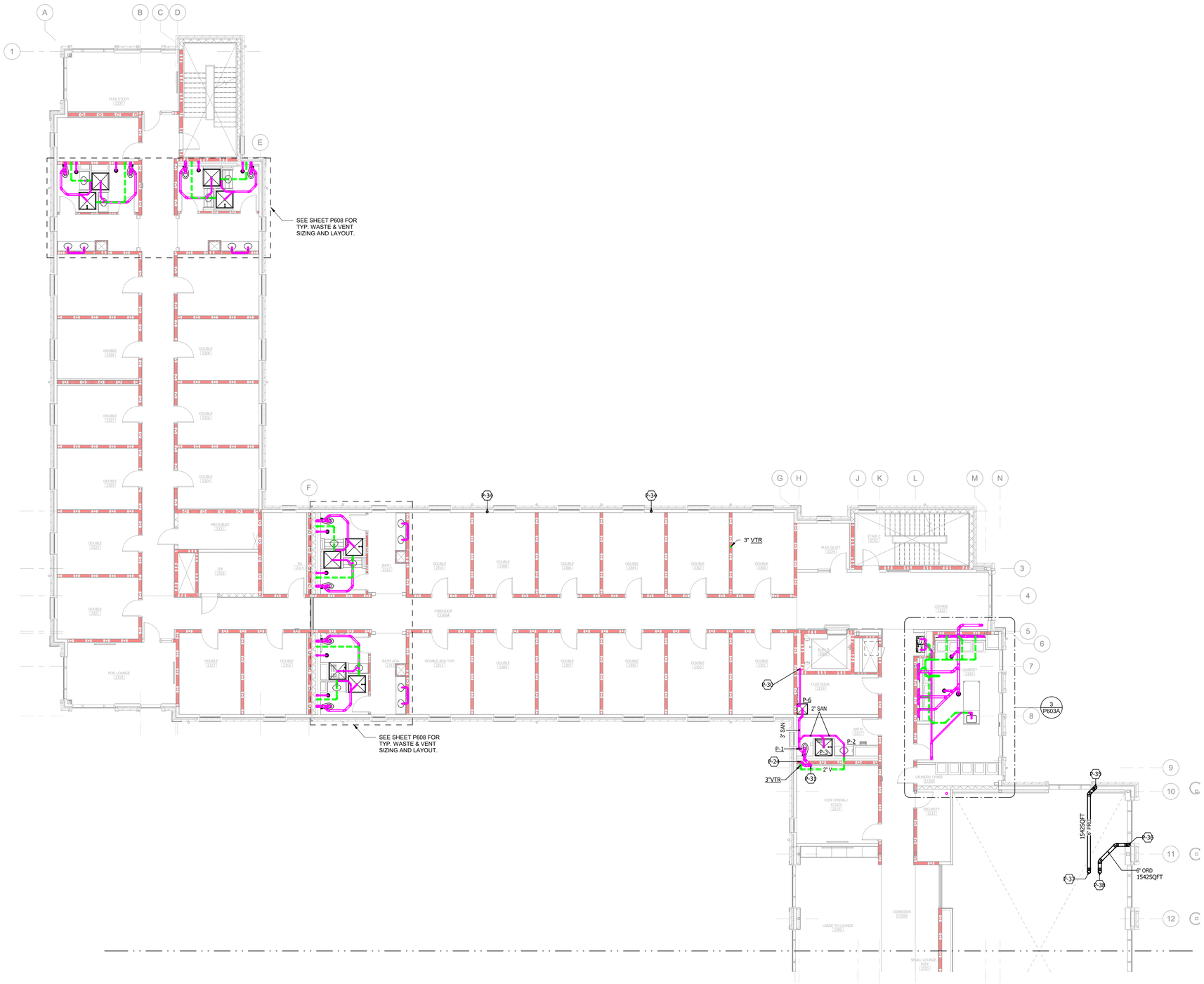
UNC WILMINGTON, NC

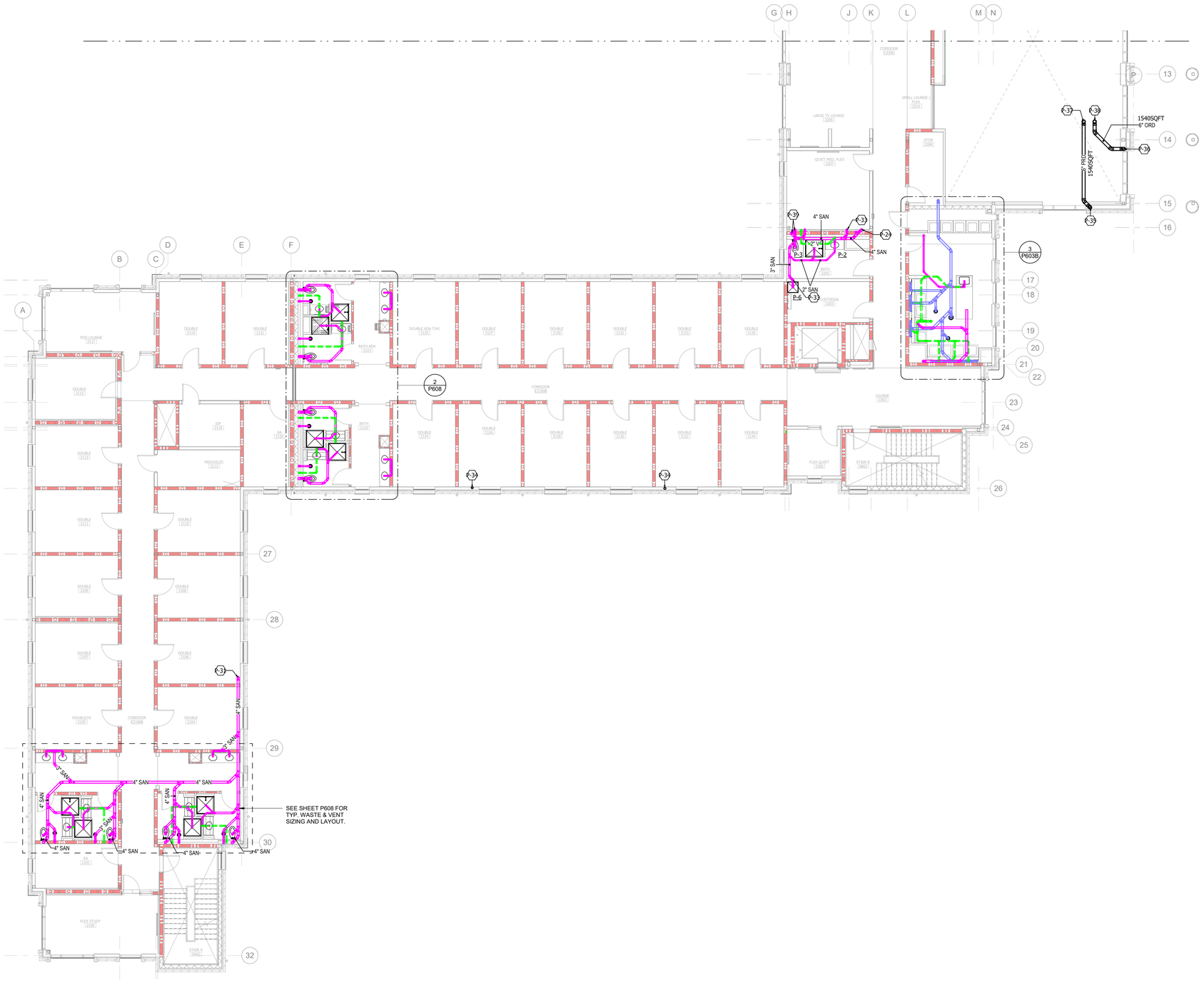
PROJECT NO.: 514.23018.00

SHEET TITLE: PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA B

SHEET NUMBER: P201B

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DOUBLE



1 PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

- P-24 4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
- P-31 4" SANITARY WASTE LINE DOWN.
- P-33 3" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
- P-34 4" PRD DOWN.
- P-35 6" PRD DOWN.
- P-36 6" ORD DOWN.
- P-37 6" PRD DOWN FROM PRD-1.
- P-38 6" ORD DOWN FROM ORD-1.
- P-39 4" SANITARY WASTE LINE FROM ABOVE. LINE WILL OFFSET IN THE VERTICLE TO CONTINUE DECENT TO LEVEL 01.

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

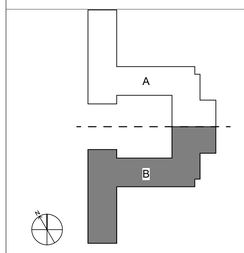
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

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KEY PLAN



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DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
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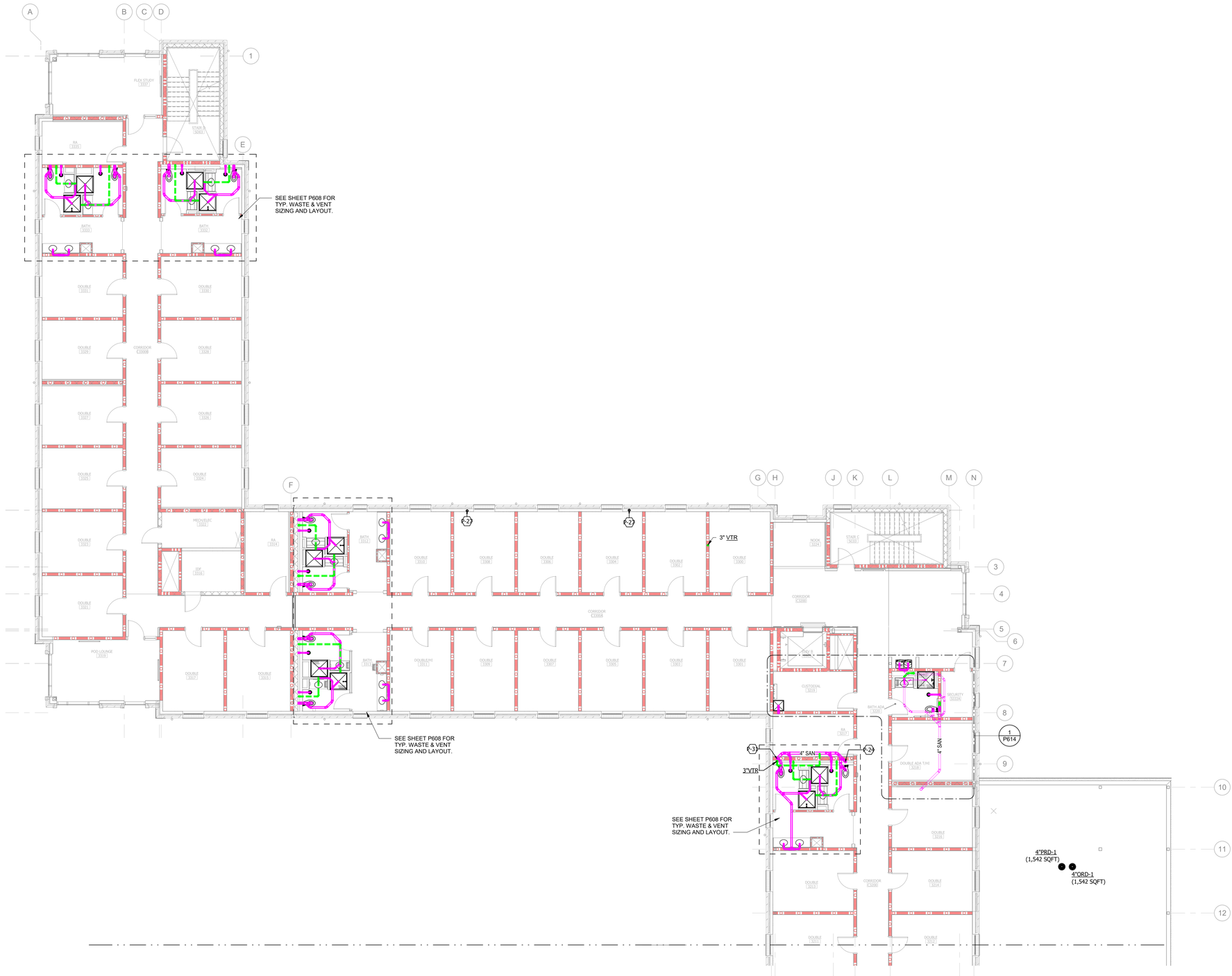
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA B

SHEET NUMBER
P202B

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1 PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

P-24 4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
P-27 4" PRD DOWN FROM ABOVE.
P-31 4" SANITARY WASTE LINE DOWN.

GENERAL NOTES - PLUMBING

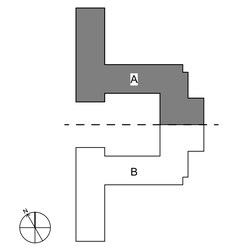
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RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
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ISSUE DATE
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REVISIONS

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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

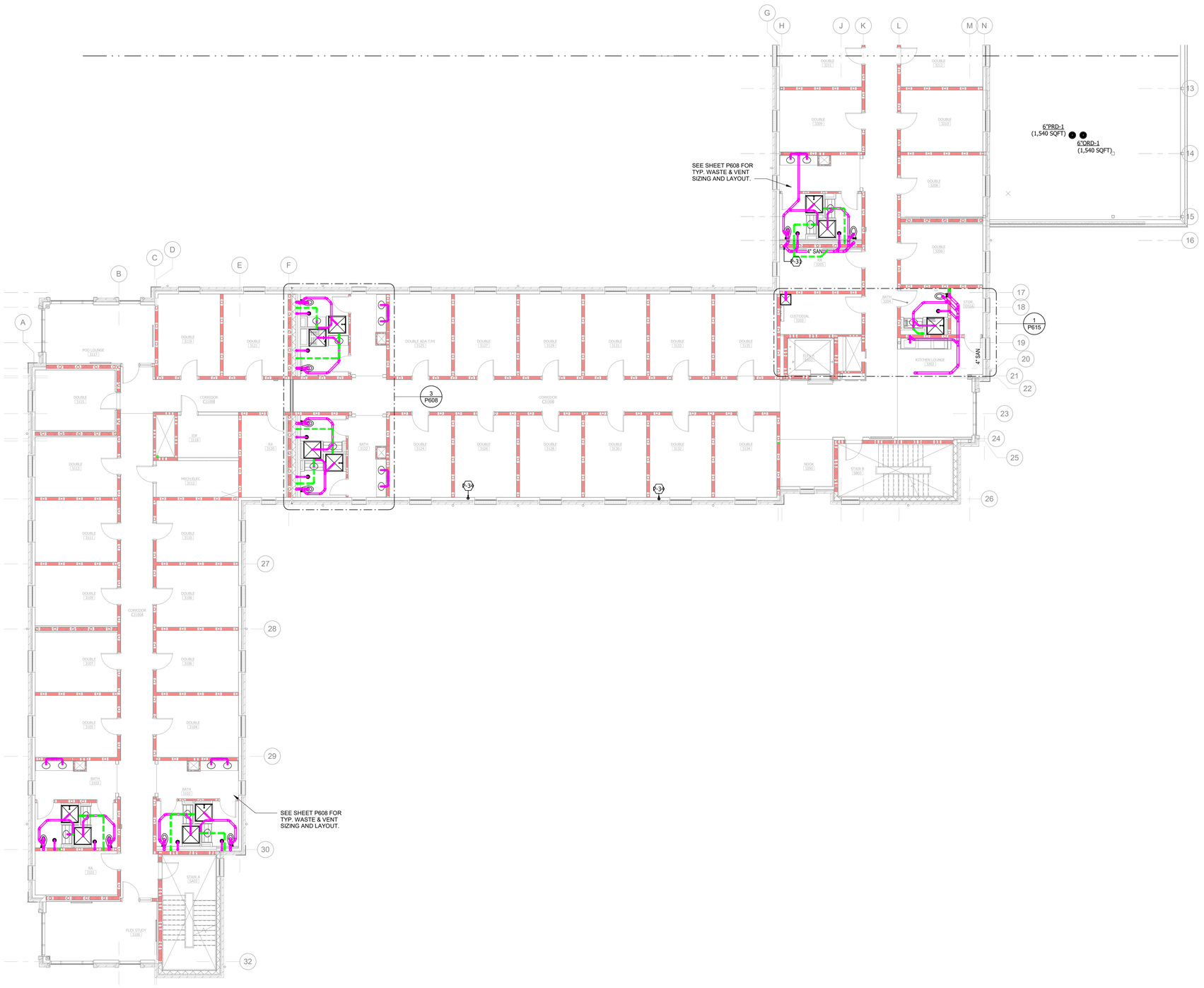
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA A

SHEET NUMBER
P203A

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1 PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

P-31 4" SANITARY WASTE LINE DOWN.
P-34 4" PRD DOWN.

GENERAL NOTES - PLUMBING

1. PLUMBING PIPING SHOWN IS DIAGRAMMATIC AND MAY NOT NECESSARILY DEPICT THE ACTUAL INSTALLATION DURING CONSTRUCTION.
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RATED WALLS AND PARTITIONS

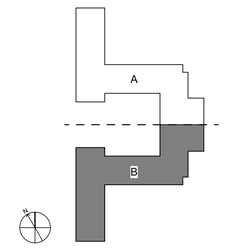
FIRE BARRIERS

2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION
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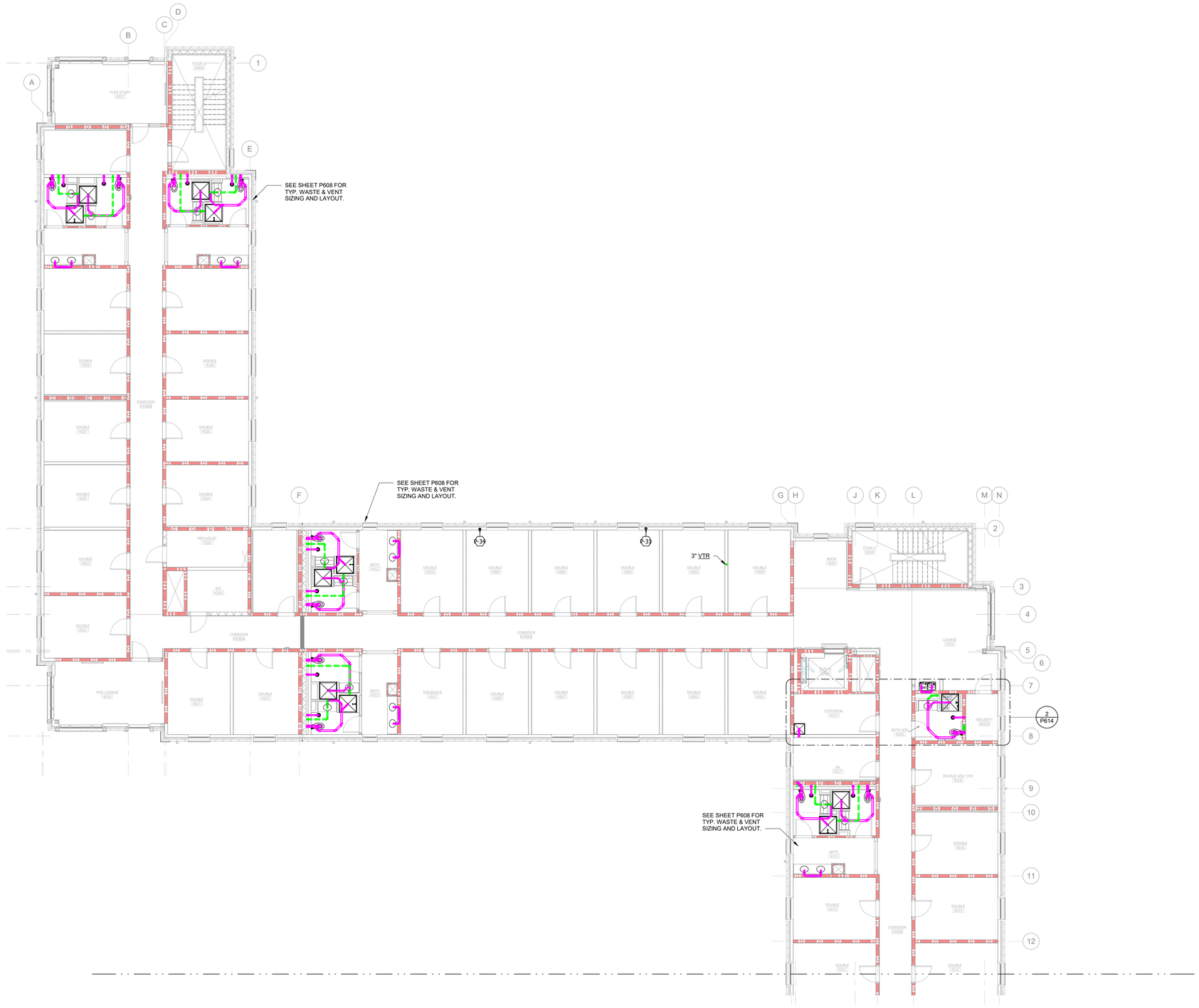
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 03 - AREA B

SHEET NUMBER
P203B

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1 PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA A

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

P-31 4" SANITARY WASTE LINE DOWN.
P-34 4" PRD DOWN.

GENERAL NOTES - PLUMBING

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RATED WALLS AND PARTITIONS

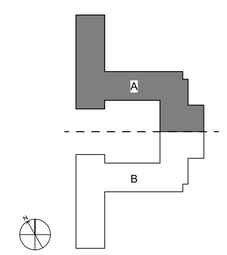
FIRE BARRIERS

2-HR FIRE BARRIER
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KEY PLAN



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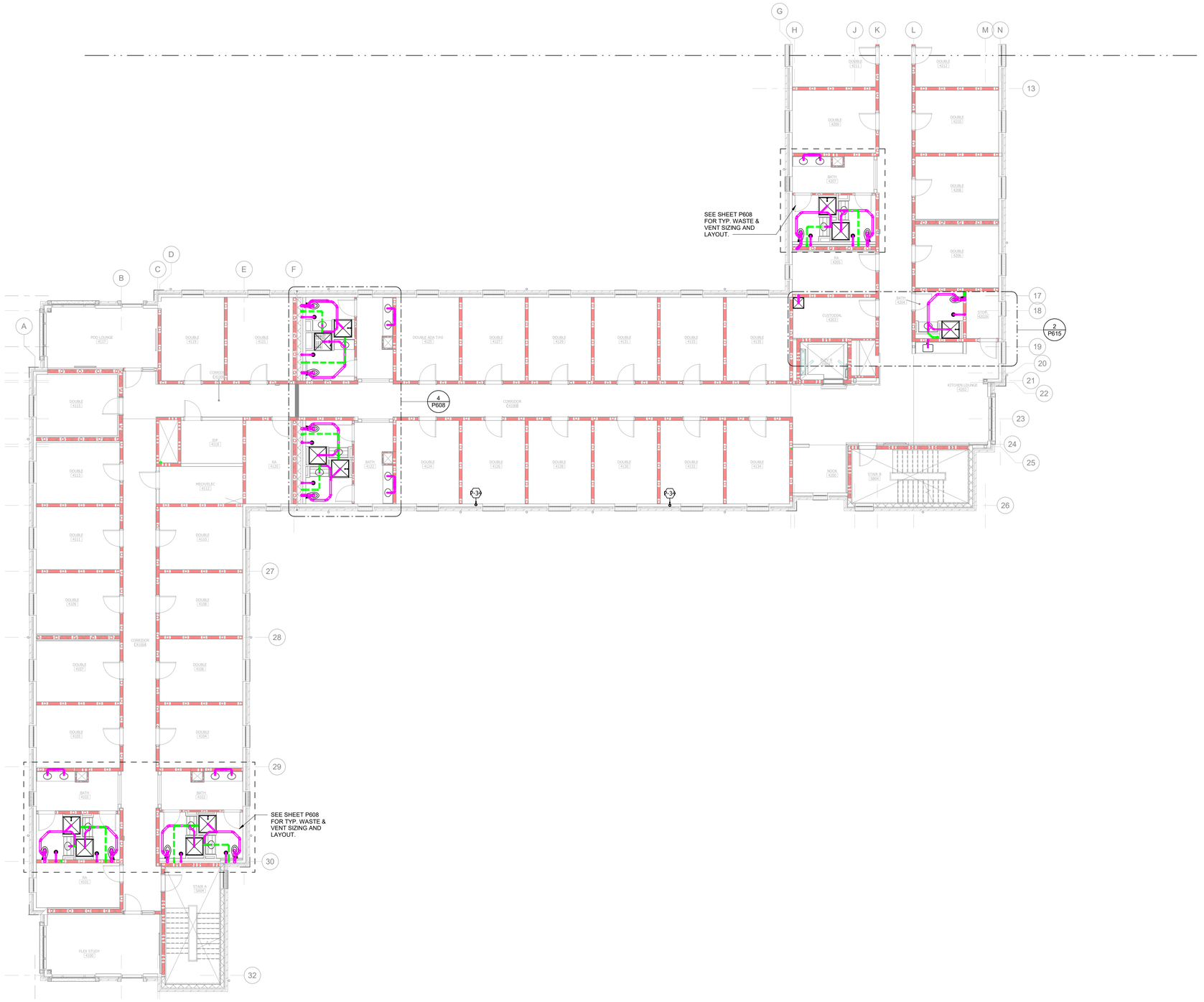
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA A

SHEET NUMBER
P204A

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1 PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

P-34 4" PRD DOWN.

GENERAL NOTES - PLUMBING

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

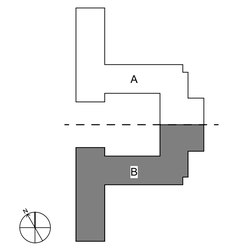
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

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KEY PLAN



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DESIGN TEAM
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PROJECT NAME
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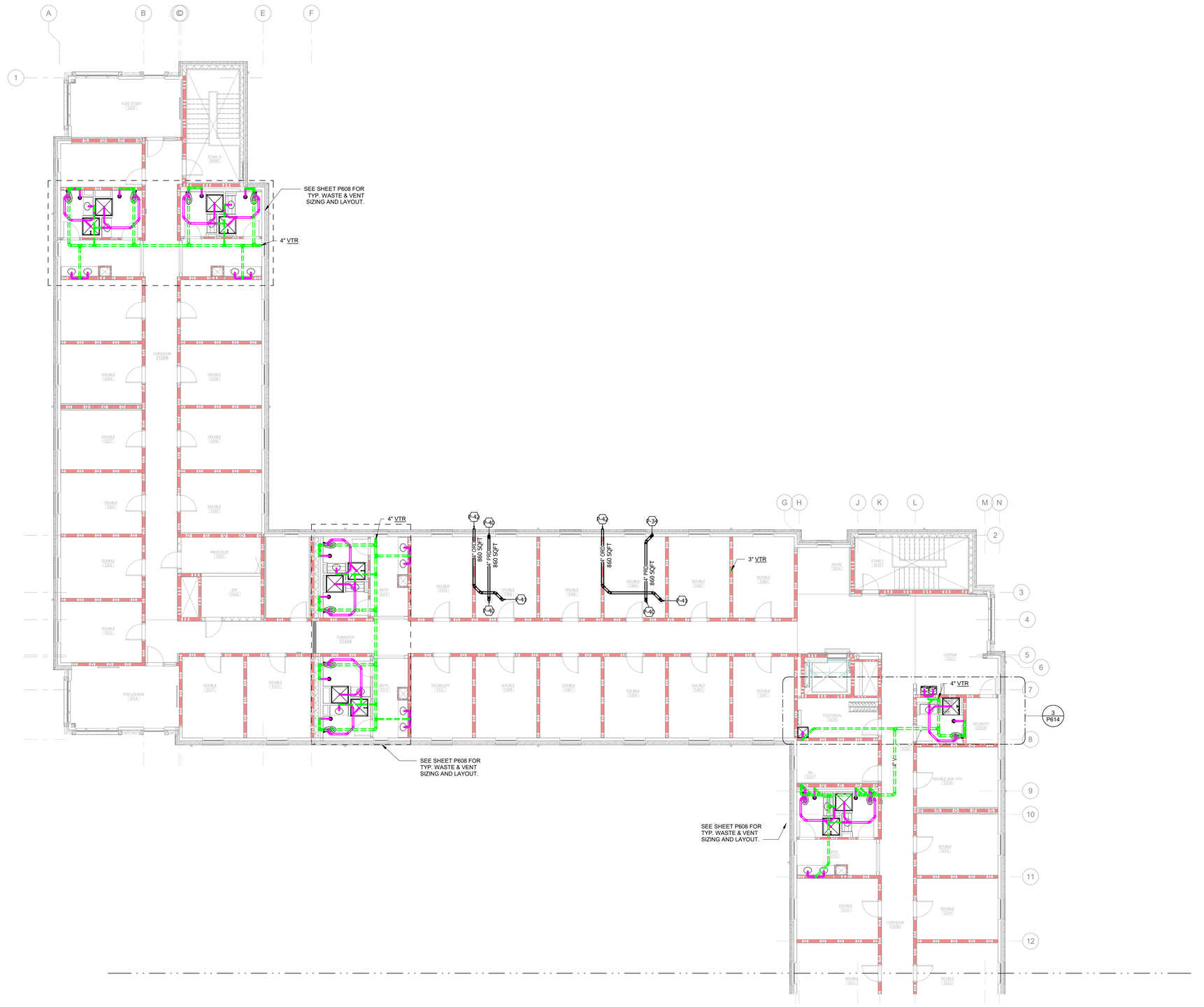
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 04 - AREA B

SHEET NUMBER
P204B

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1 PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

P-34 4" PRD DOWN.
P-40 4" PRD DOWN FROM PRD-1.
P-41 4" ORD DOWN FROM ORD-1.
P-42 4" ORD ROUTED TO OVERFLOW SCUPPER.

GENERAL NOTES - PLUMBING

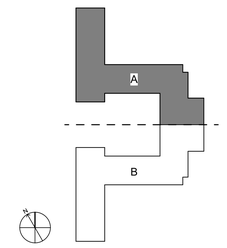
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RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA A

SHEET NUMBER
P205A

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1 PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

P-34 4" PRD DOWN.
P-40 4" PRD DOWN FROM PRD-1.
P-41 4" ORD DOWN FROM ORD-1.
P-42 4" ORD ROUTED TO OVERFLOW SCUPPER.

GENERAL NOTES - PLUMBING

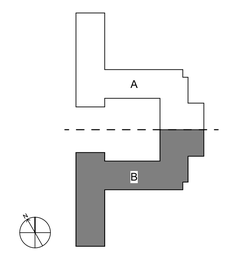
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RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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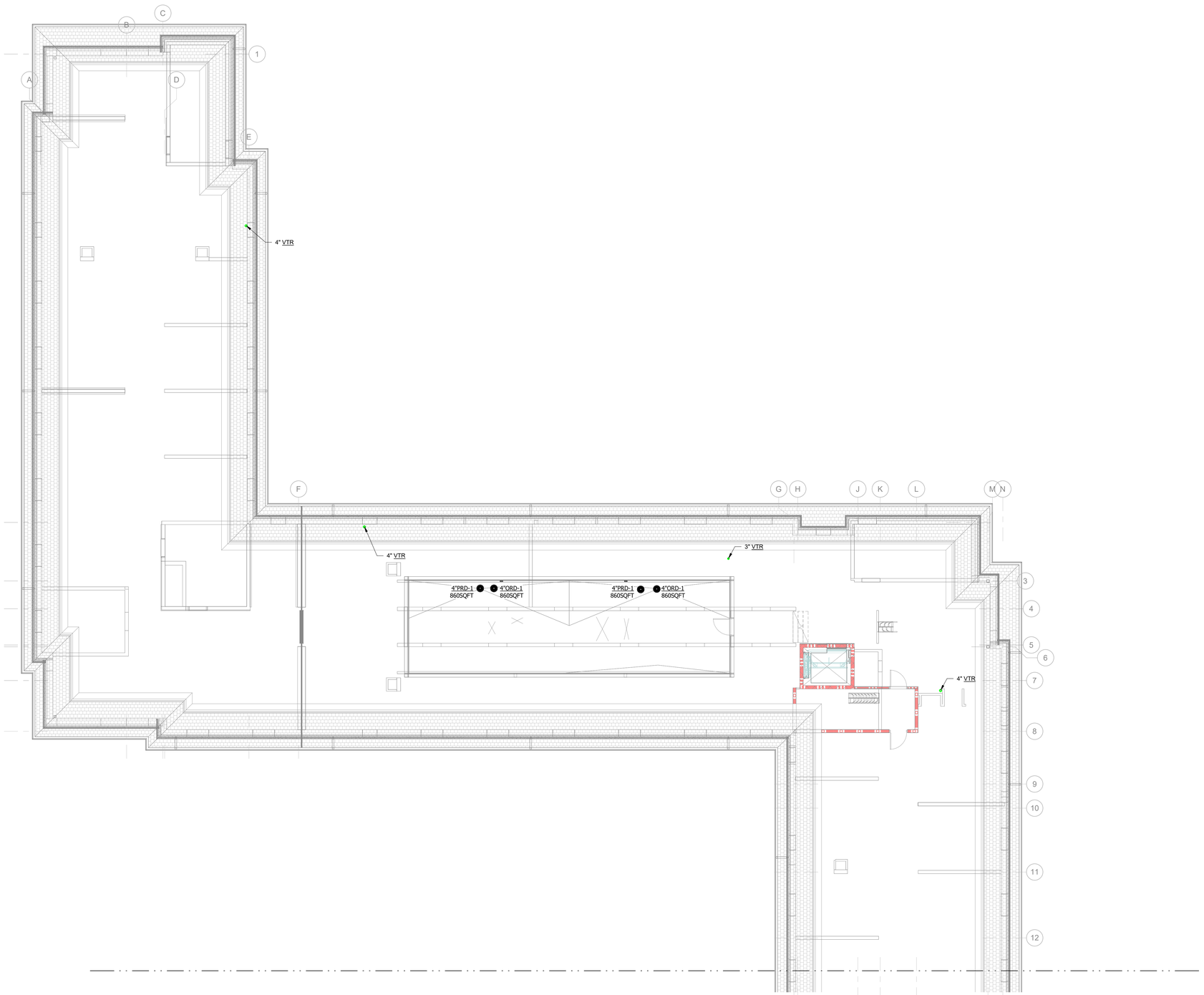
UNC WILMINGTON, NC

PROJECT NO.
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SHEET TITLE
PLUMBING WASTE/VENT PLAN - LEVEL 05 - AREA B

SHEET NUMBER
P205B

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1 PLUMBING WASTE/VENT PLAN - ROOF - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

GENERAL NOTES - PLUMBING

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2-HR FIRE BARRIER

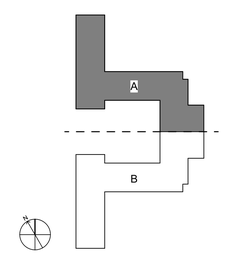
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FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

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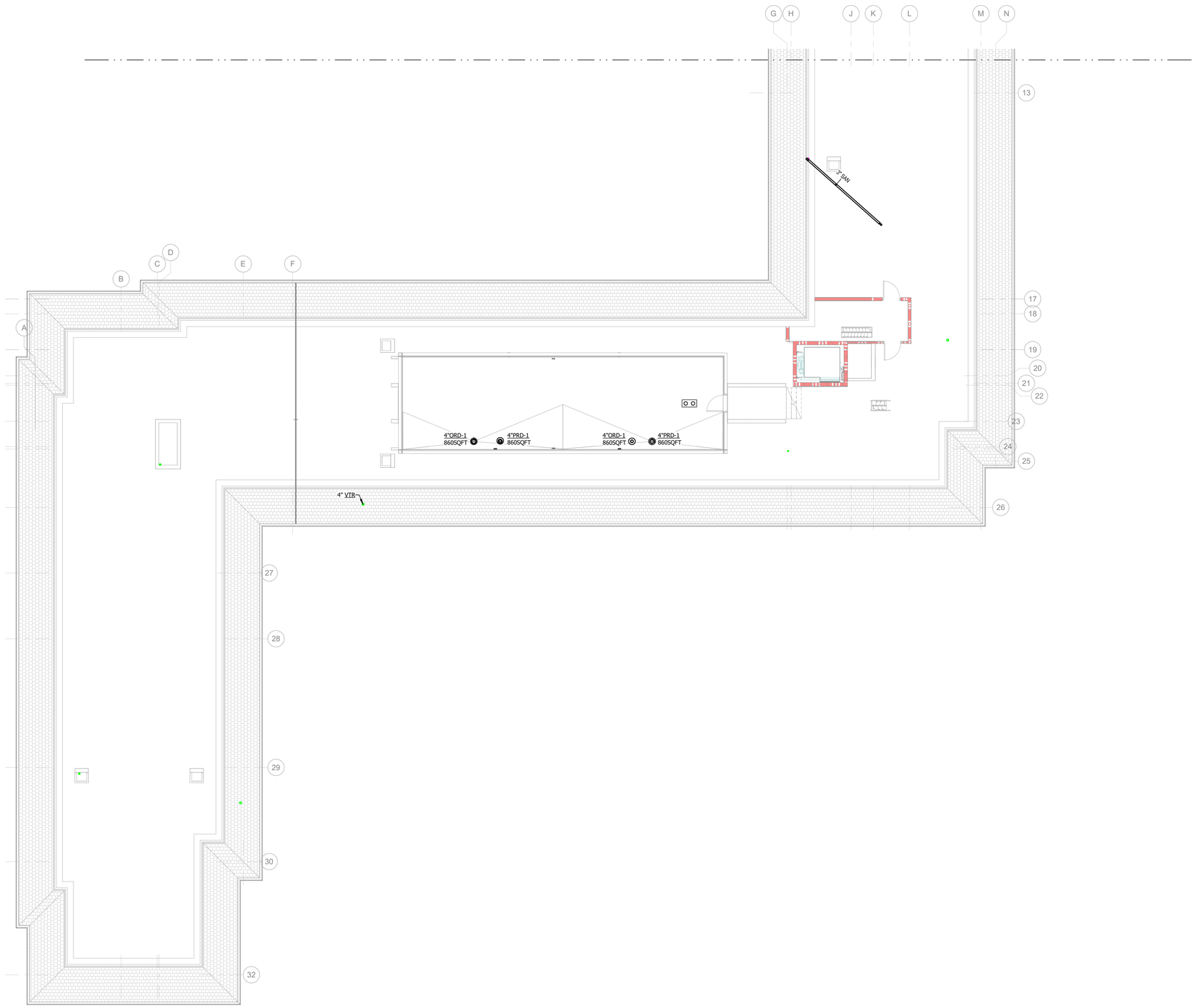
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PROJECT NO.
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SHEET TITLE
PLUMBING WASTE/VENT PLAN - ROOF - AREA A

SHEET NUMBER
P206A

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1 PLUMBING WASTE/ VENT PLAN - ROOF - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

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2-HR FIRE BARRIER

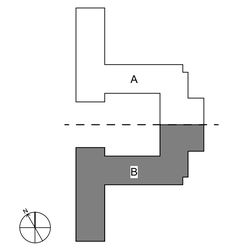
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PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: REBECCA CLEWETT

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

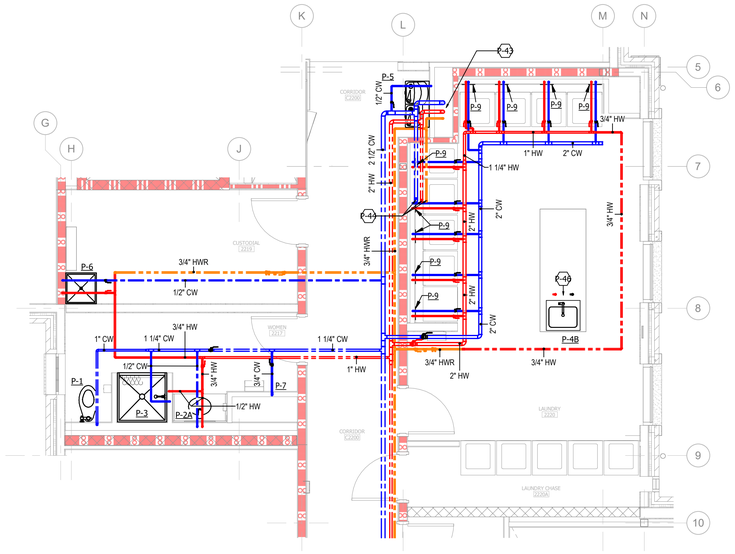
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

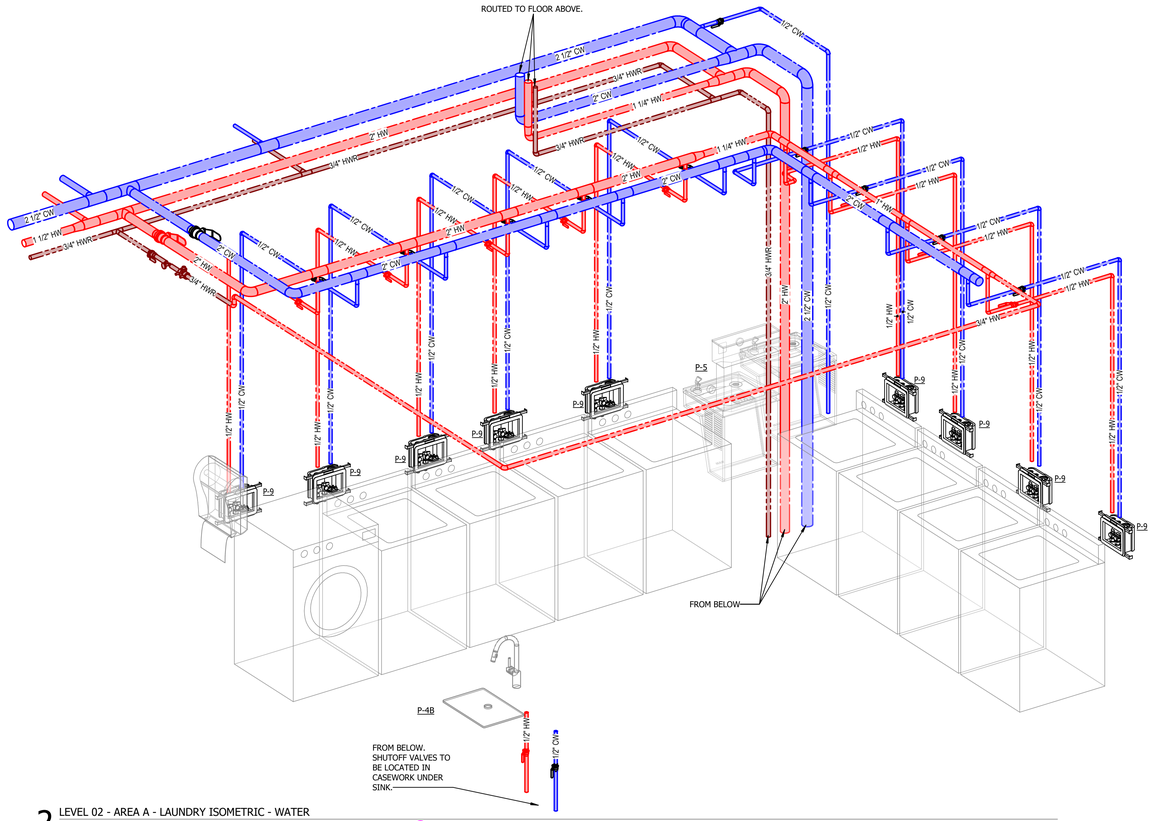
SHEET TITLE: PLUMBING WASTE/VENT PLAN - ROOF - AREA B

SHEET NUMBER: P206B

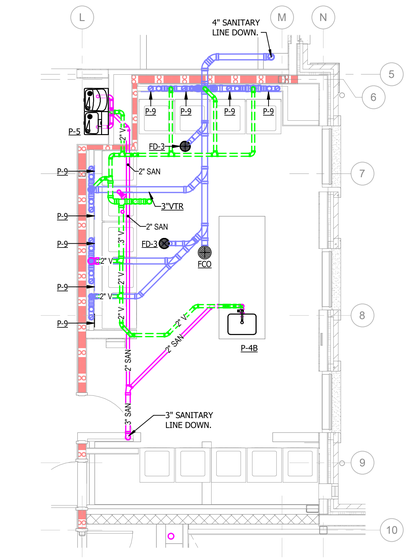
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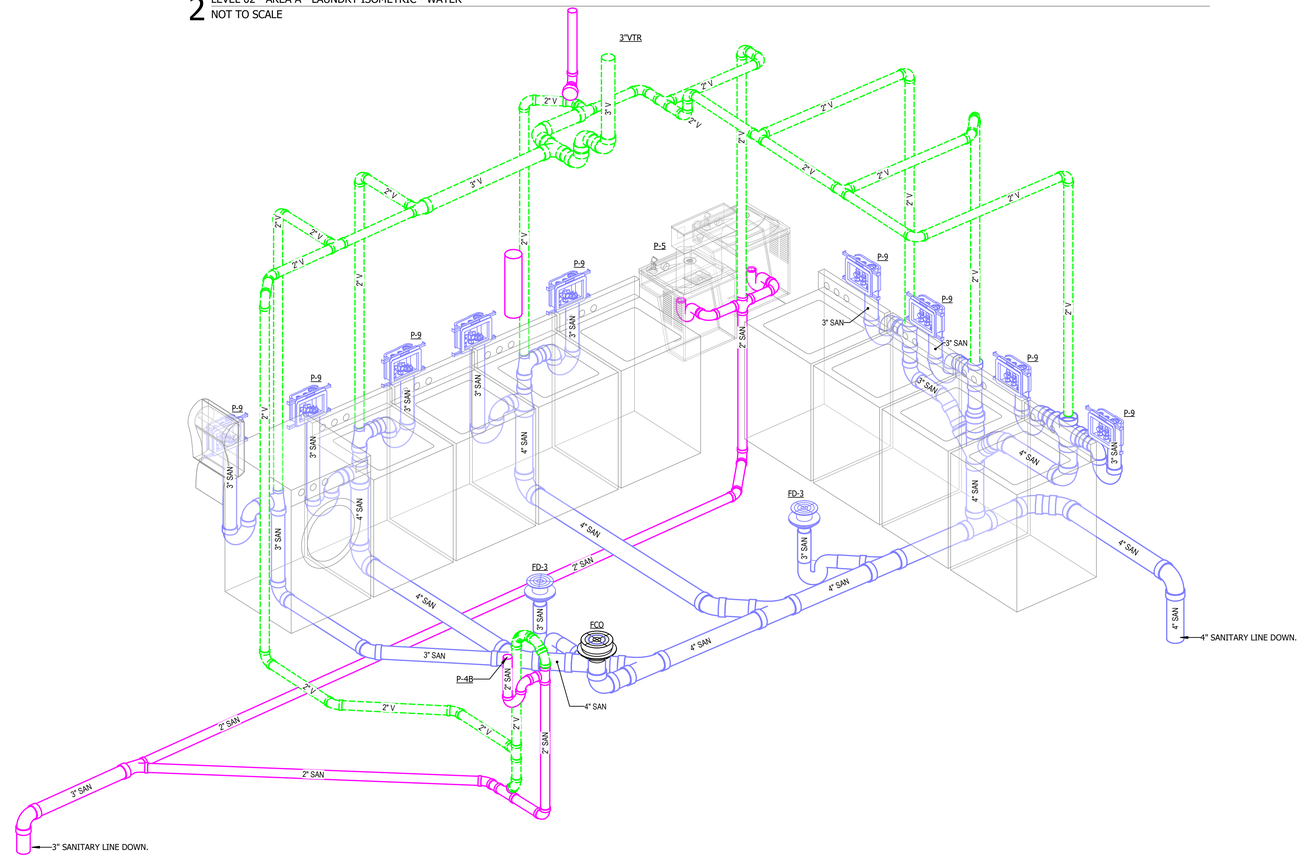
1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 02 - AREA A - ENLARGED LAUNDRY



2 LEVEL 02 - AREA A - LAUNDRY ISOMETRIC - WATER
NOT TO SCALE



3 PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA A - ENLARGED LAUNDRY



4 LEVEL 02 - AREA A - LAUNDRY ISOMETRIC -WASTE/VENT
NOT TO SCALE

SHEET KEYED NOTES

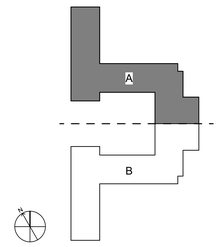
P-43 2-1/2"CW FROM BELOW, 2" HW FROM BELOW, AND 3/4" HWR DOWN.
P-44 2" CW UP, 1-1/4" HW UP. AND 3/4" DOWN FROM ABOVE.
P-46 1/2"HW & CW FROM BELOW. SHUTOFF VALVES TO BE LOCATED IN CASEWORK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

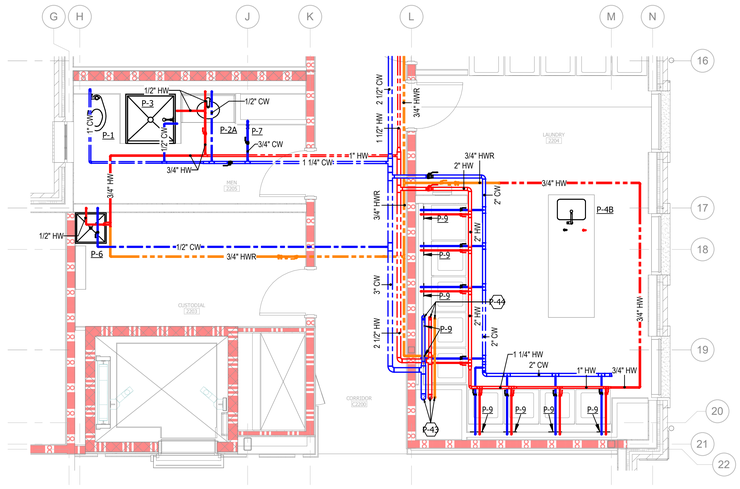
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

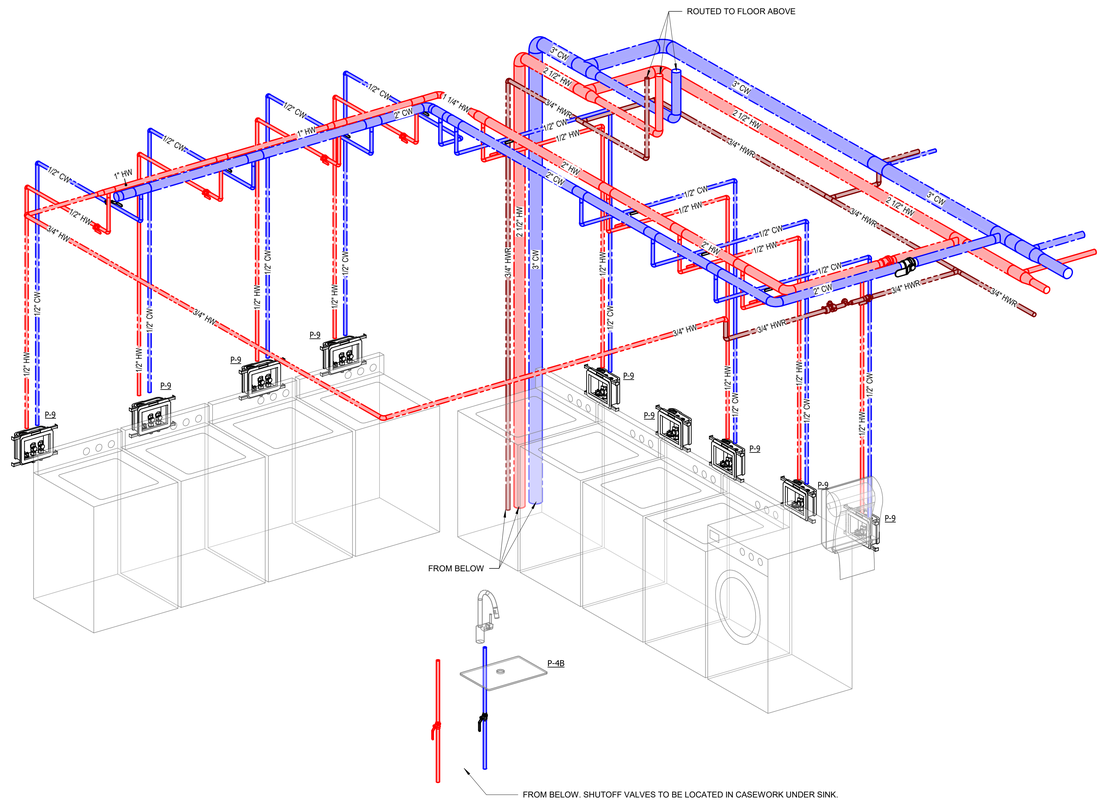
SHEET TITLE
PLUMBING ENLARGED LAUNDRY PLANS - AREA A

SHEET NUMBER
P603A

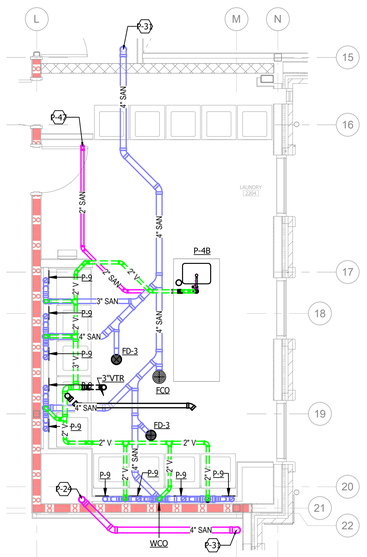
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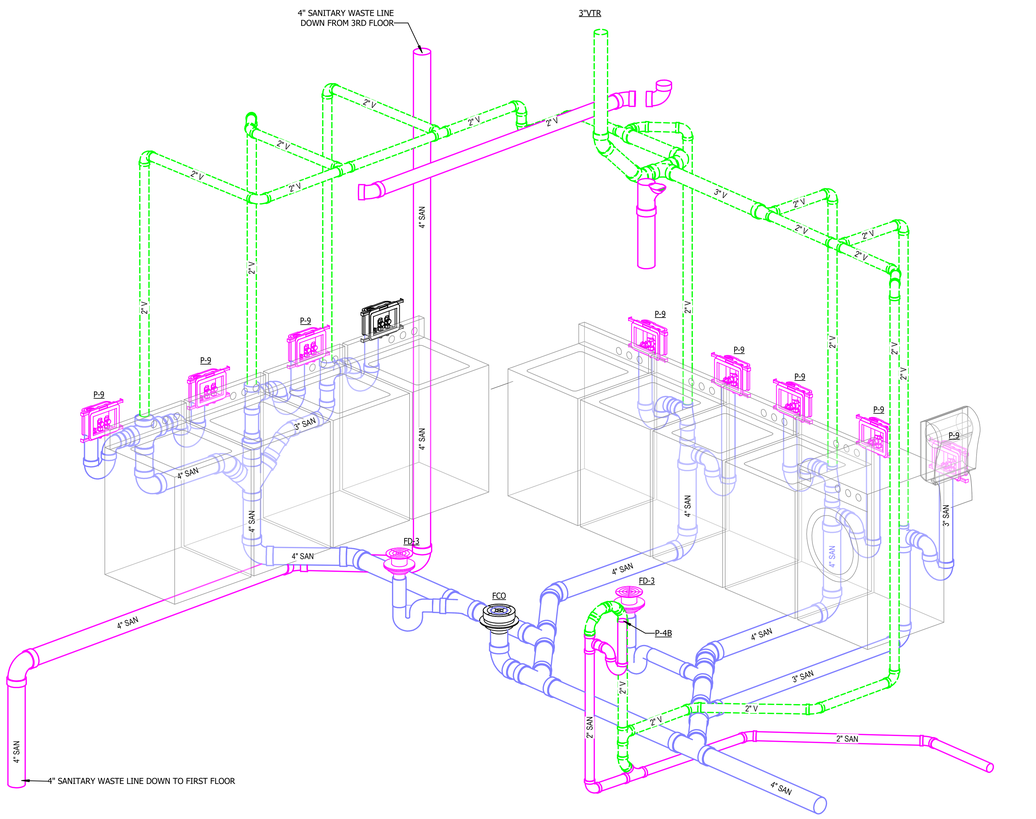
1 PLUMBING PLAN - DOMESTIC WATER - LEVEL 02 - AREA B - ENLARGED LAUNDRY



2 LEVEL 02 - AREA B - LAUNDRY ISOMETRIC - WATER
NOT TO SCALE



3 PLUMBING WASTE/VENT PLAN - LEVEL 02 - AREA B - ENLARGED LAUNDRY



4 LEVEL 02 - AREA B - LAUNDRY ISOMETRIC - WASTE/VENT
NOT TO SCALE

SHEET KEYED NOTES

P-24	4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
P-31	4" SANITARY WASTE LINE DOWN.
P-43	2-1/2"CW FROM BELOW, 2" HW FROM BELOW, AND 3/4" HWR DOWN.
P-44	2" CW UP, 1-1/4" HW UP. AND 3/4" DOWN FROM ABOVE.
P-47	2" SANITARY WASTE LINE DOWN.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

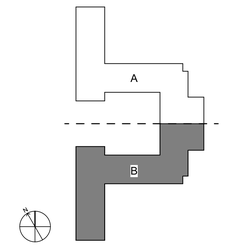
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

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DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

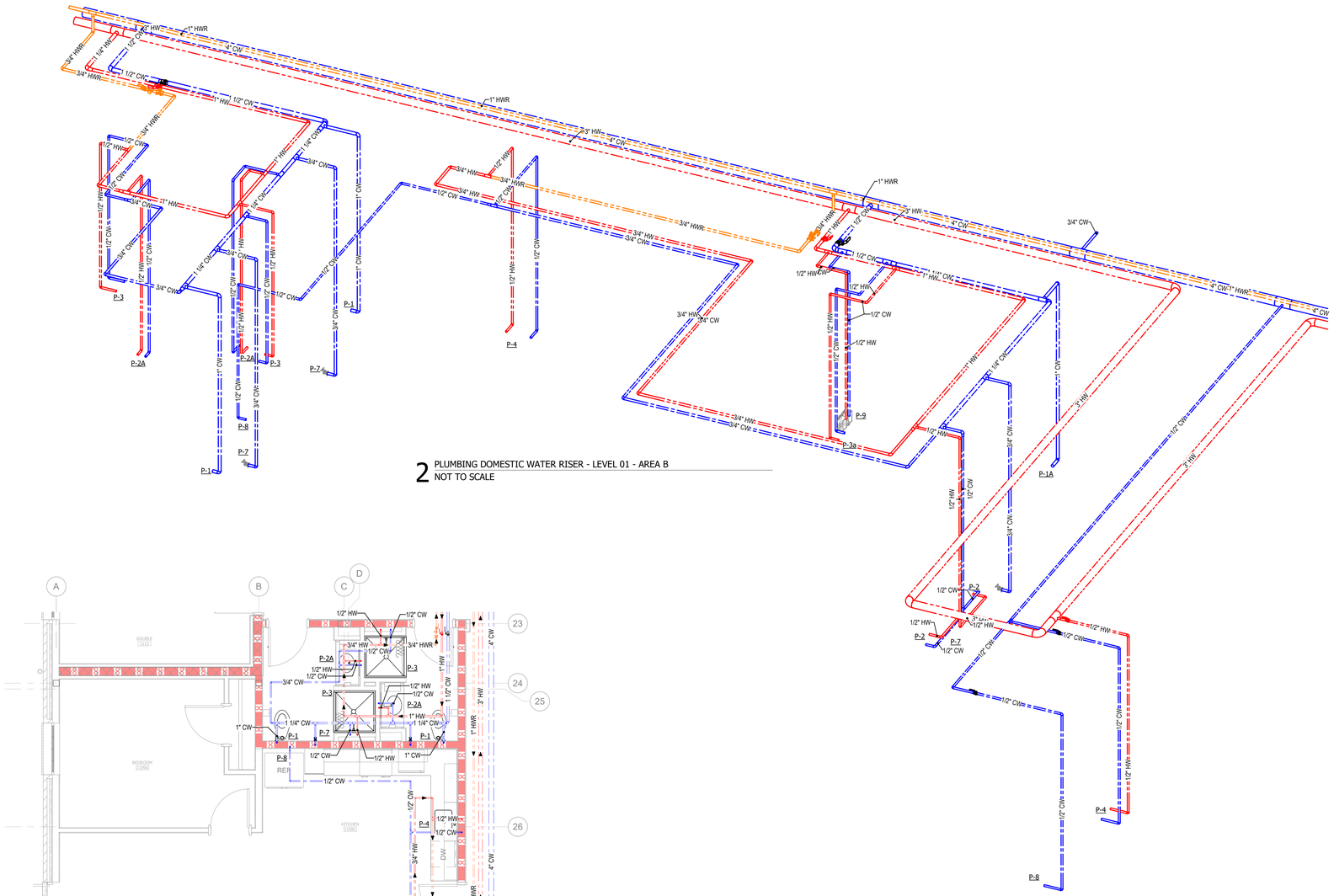
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PROJECT NO.
514.23018.00

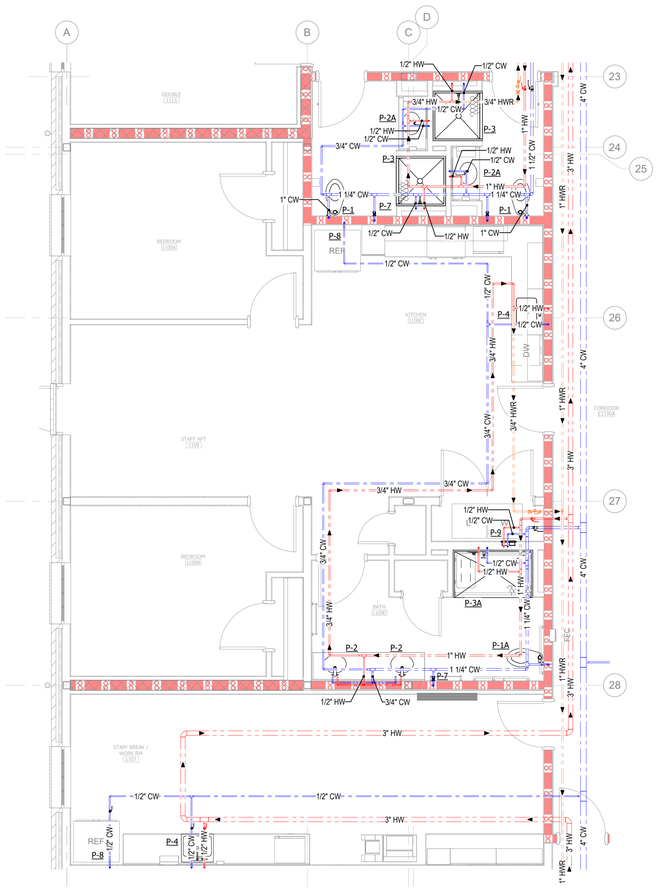
SHEET TITLE
PLUMBING ENLARGED LAUNDRY PLANS - AREA B

SHEET NUMBER
P603B

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2 PLUMBING DOMESTIC WATER RISER - LEVEL 01 - AREA B
NOT TO SCALE



1 PLUMBING DOMESTIC WATER PLAN - LEVEL 01 - AREA B - ENLARGED WATER
0 0.5' 1' 2' 4' 8' 12' 16'
1/4" = 1'-0"

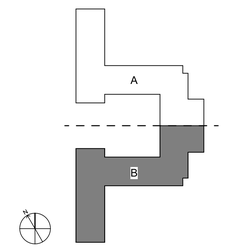
SHEET KEYED NOTES

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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REBECCA CLEWETT

PROJECT NAME
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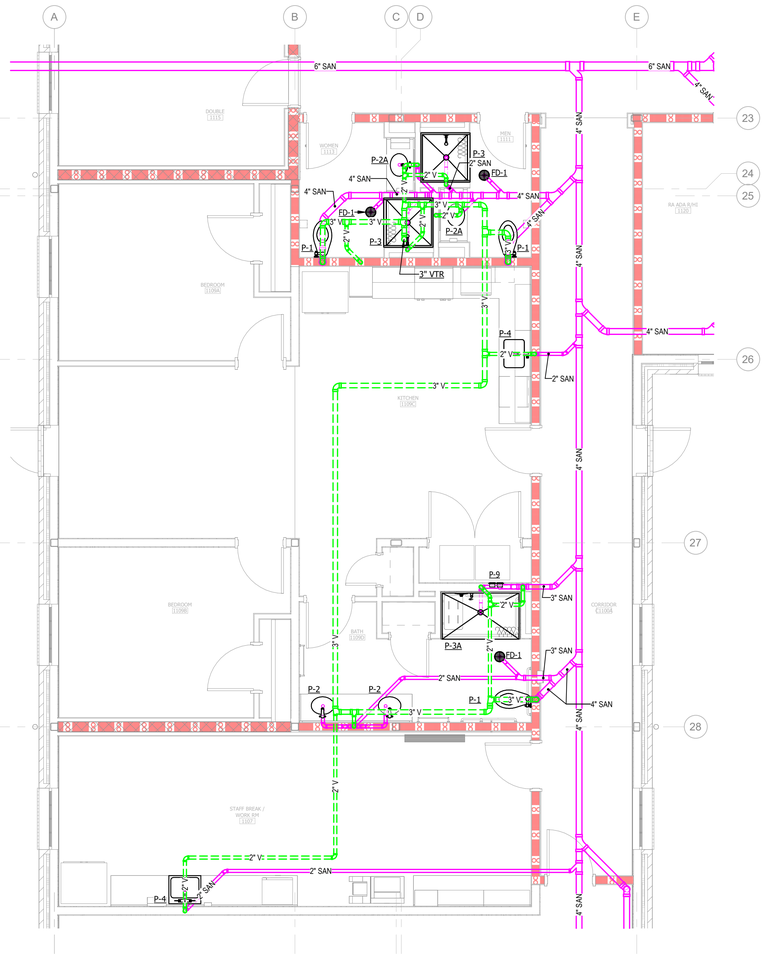
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER ENLARGED PLANS - LEVEL 01 - AREA B

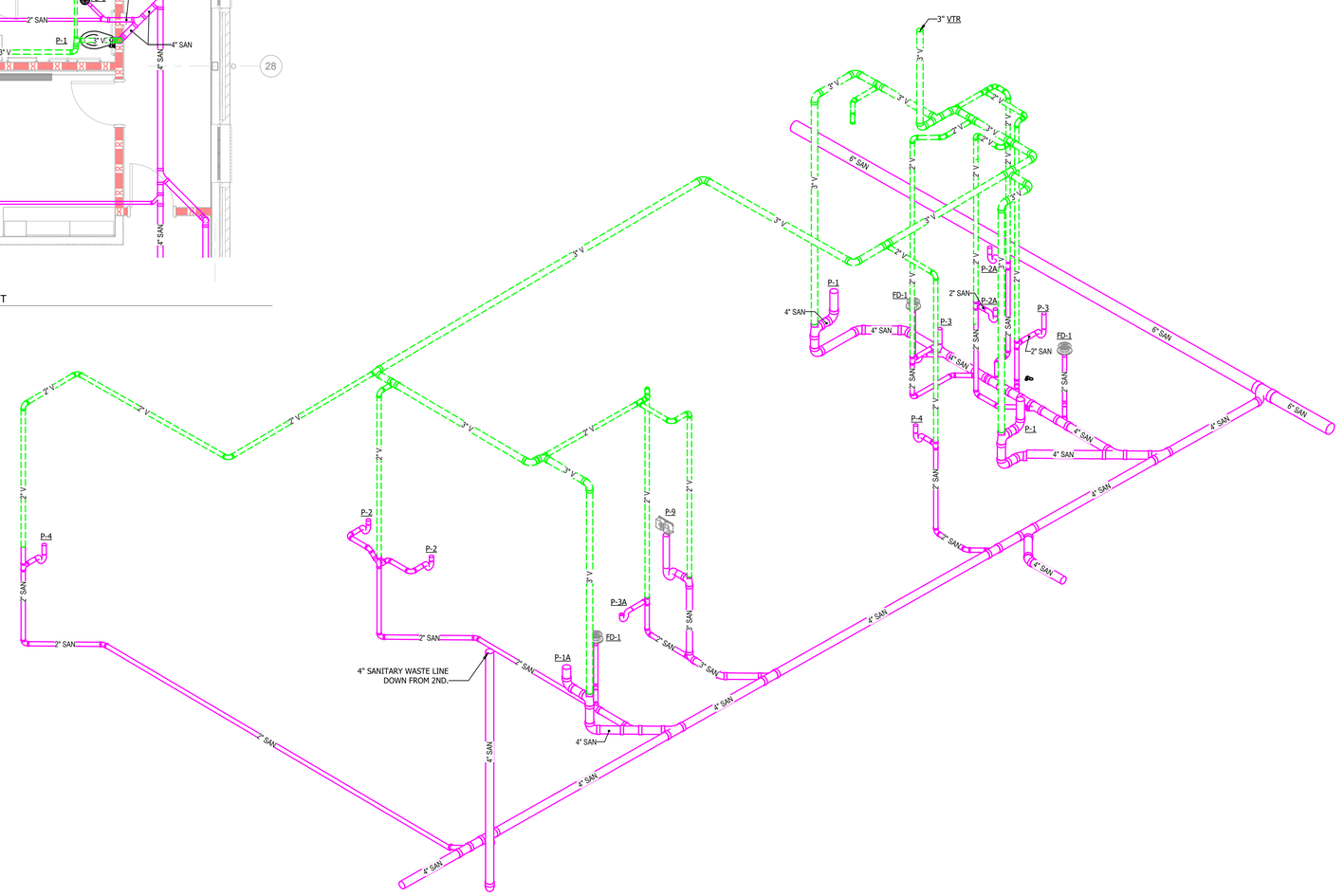
SHEET NUMBER
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1 PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA B - ENLARGED WASTE/VENT

1/4" = 1'-0"



2 PLUMBING WASTE/VENT RISER - LEVEL 01 AREA B

NOT TO SCALE

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

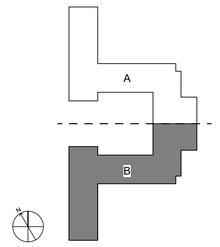
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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REBECCA CLEWETT

PROJECT NAME
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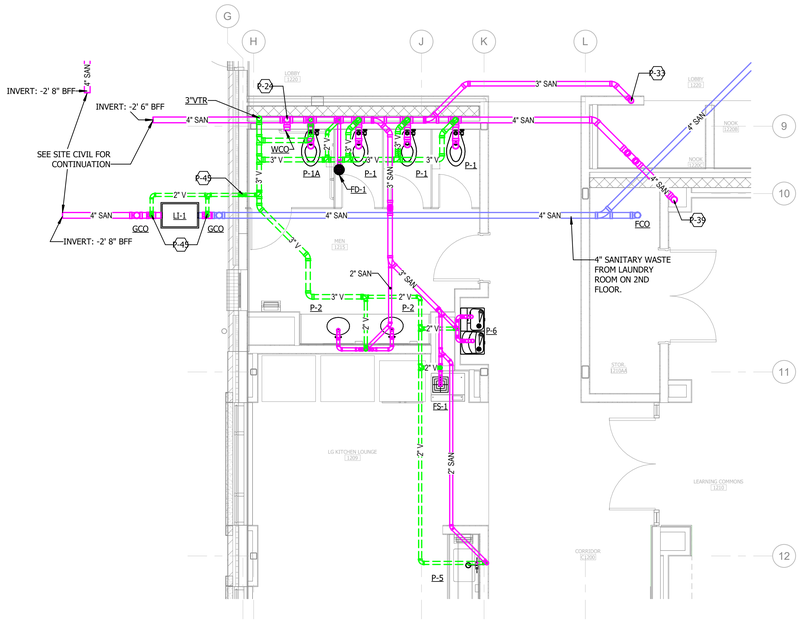
UNC WILMINGTON, NC

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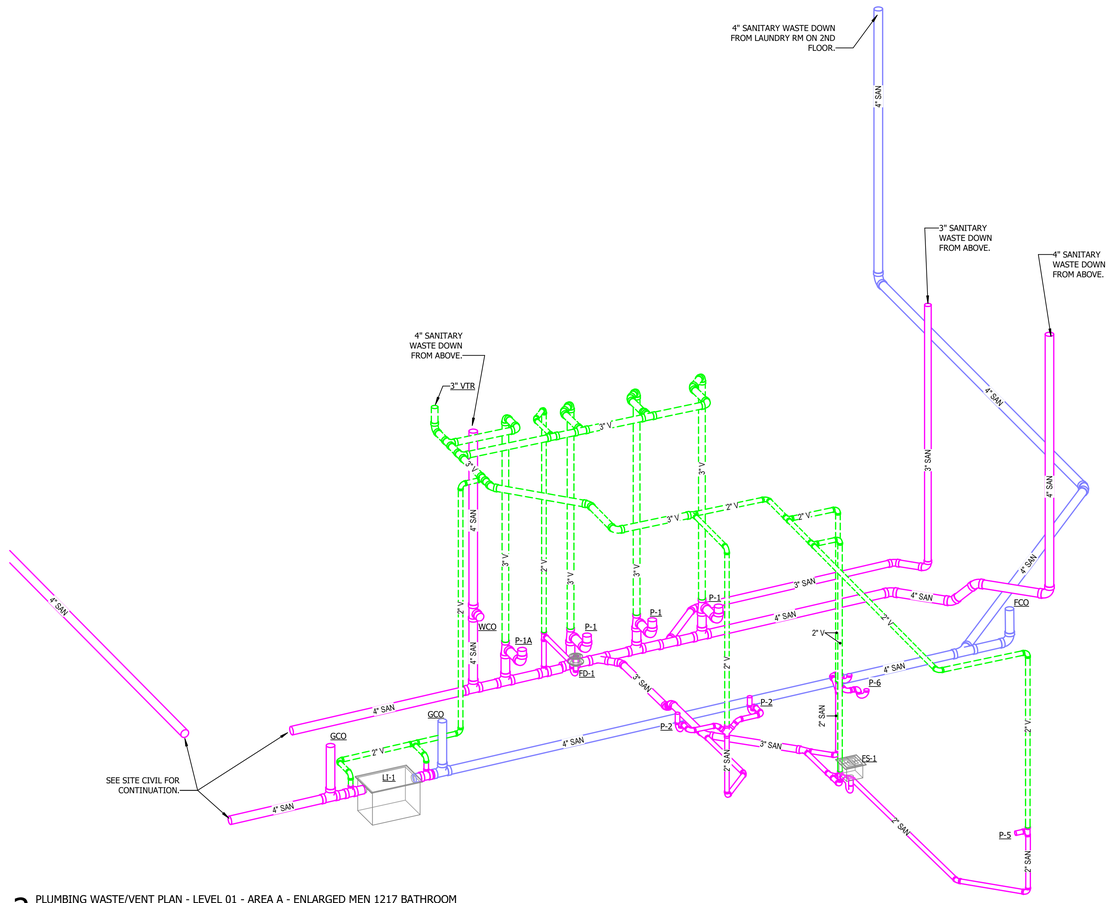
SHEET TITLE
PLUMBING WASTE/VENT ENLARGED PLAN - LEVEL 01 - AREA B

SHEET NUMBER
P605

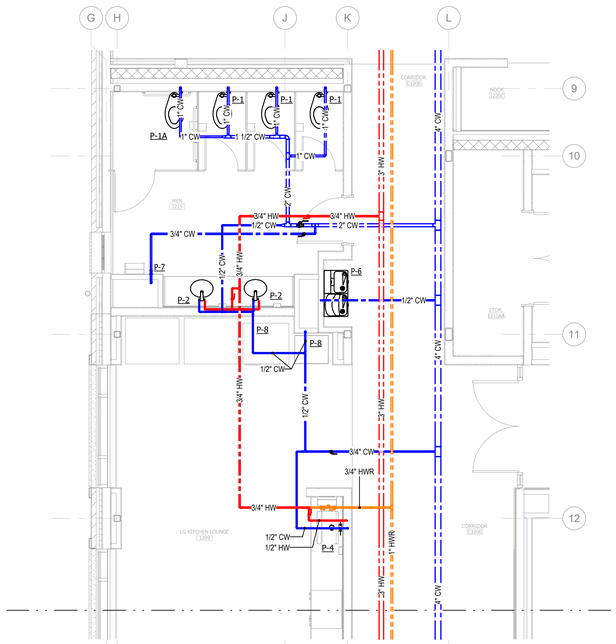
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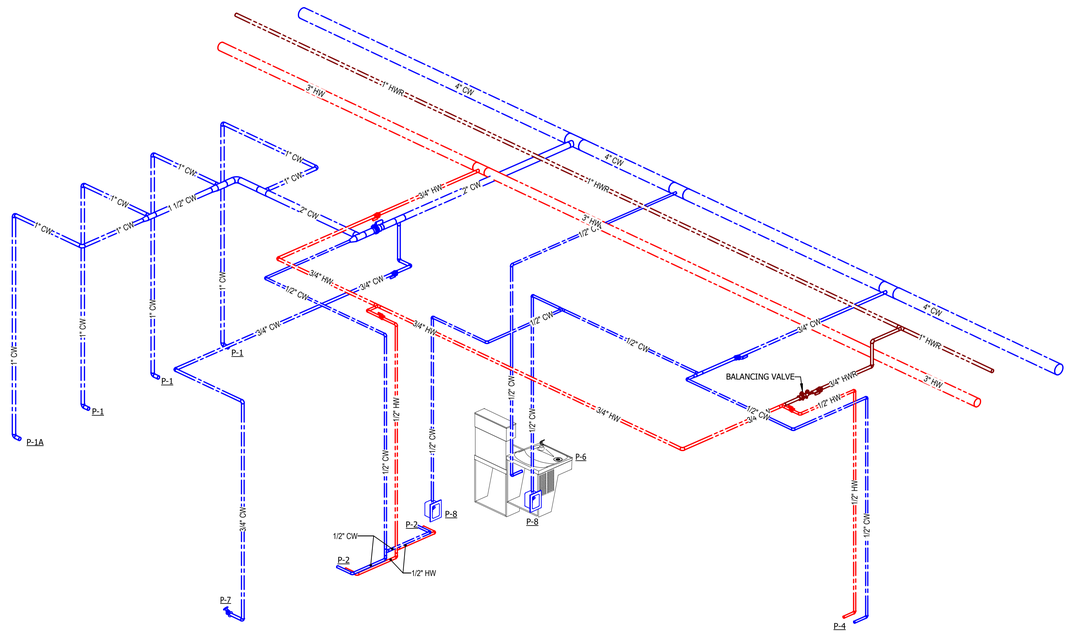
1 PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA A - ENLARGED MEN 1215 BATHROOM



2 PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA A - ENLARGED MEN 1217 BATHROOM
NOT TO SCALE



3 PLUMBING WATER/GAS PLAN - LEVEL 01 - AREA A - ENLARGED MEN 1215 BATHROOM



4 PLUMBING DOMESTIC WATER PLAN - LEVEL 01 - AREA A - ENLARGED MEN 1217 BATHROOM
NOT TO SCALE

SHEET KEYED NOTES

- P-24 4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
- P-33 3" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
- P-39 4" SANITARY WASTE LINE FROM ABOVE. LINE WILL OFFSET IN THE VERTICLE TO CONTINUE DECENT TO LEVEL 01.
- P-45 2" VENT DOWN UNDERGROUND TO SERVE LI-1. CONNECT VENT LINE TO TOP OF PIPE UNDERGROUND.

RATED WALLS AND PARTITIONS

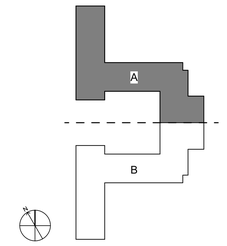
FIRE BARRIERS

- 2-HR FIRE BARRIER
- 1-HR FIRE BARRIER

FIRE PARTITIONS

- 1-HR FIRE PARTITION
- .5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

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REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

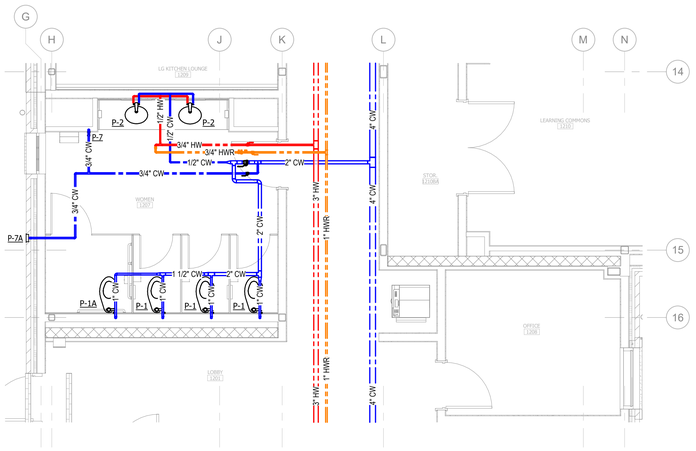
UNC WILMINGTON, NC

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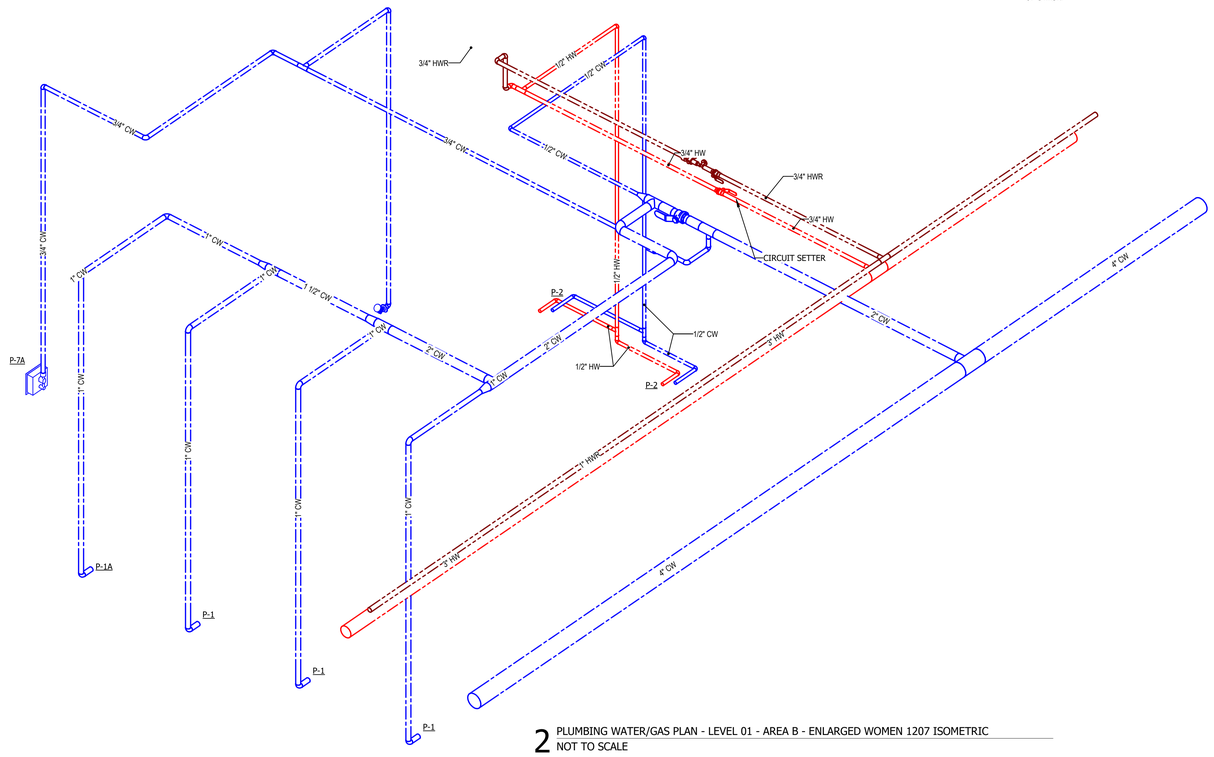
SHEET TITLE
PLUMBING ENLARGED PLANS - LEVEL 01 - AREA A

SHEET NUMBER
P606

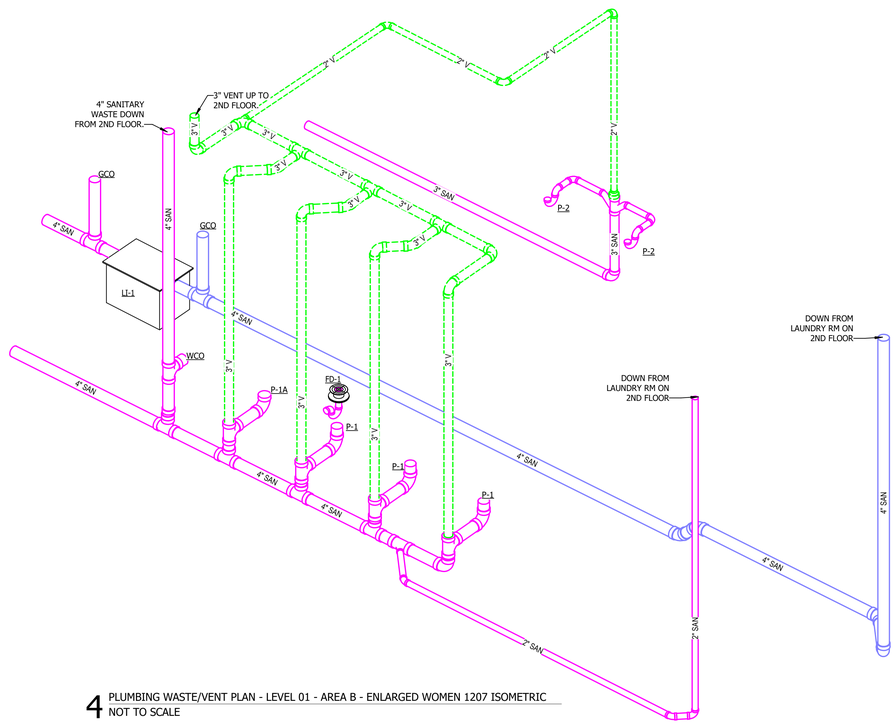
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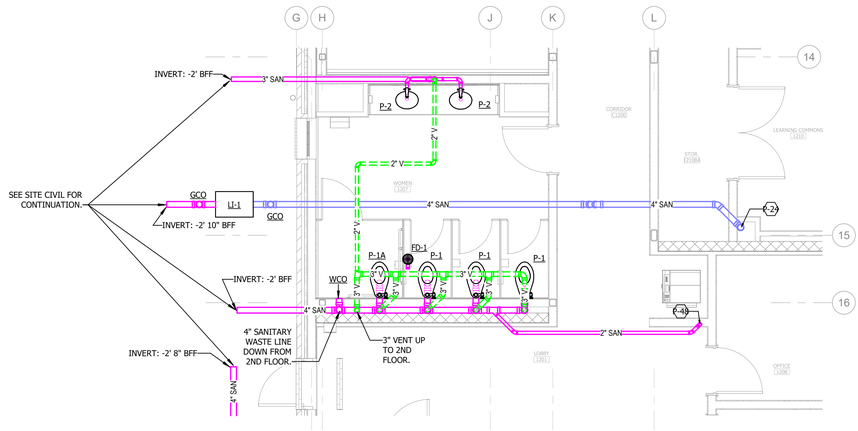
1 PLUMBING DOMESTIC WATER PLAN - LEVEL 01 - AREA B - ENLARGED WOMEN 1207 BATHROOM



2 PLUMBING WATER/GAS PLAN - LEVEL 01 - AREA B - ENLARGED WOMEN 1207 ISOMETRIC
NOT TO SCALE



4 PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA B - ENLARGED WOMEN 1207 ISOMETRIC
NOT TO SCALE



3 PLUMBING WASTE/VENT PLAN - LEVEL 01 - AREA B - ENLARGED WOMEN 1207 BATHROOM

SHEET KEYED NOTES ##

P-24 4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.

P-48 2" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

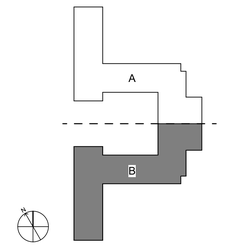
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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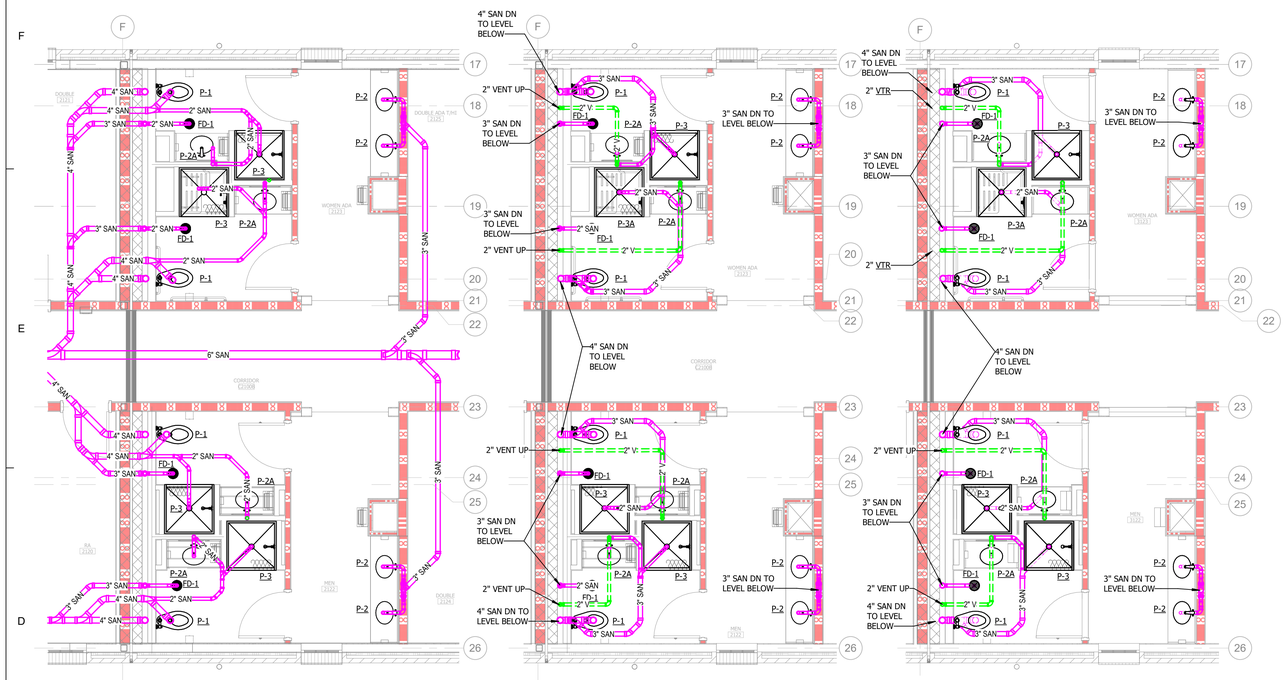
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING ENLARGED PLANS - LEVEL 01 - AREA B

SHEET NUMBER
P607

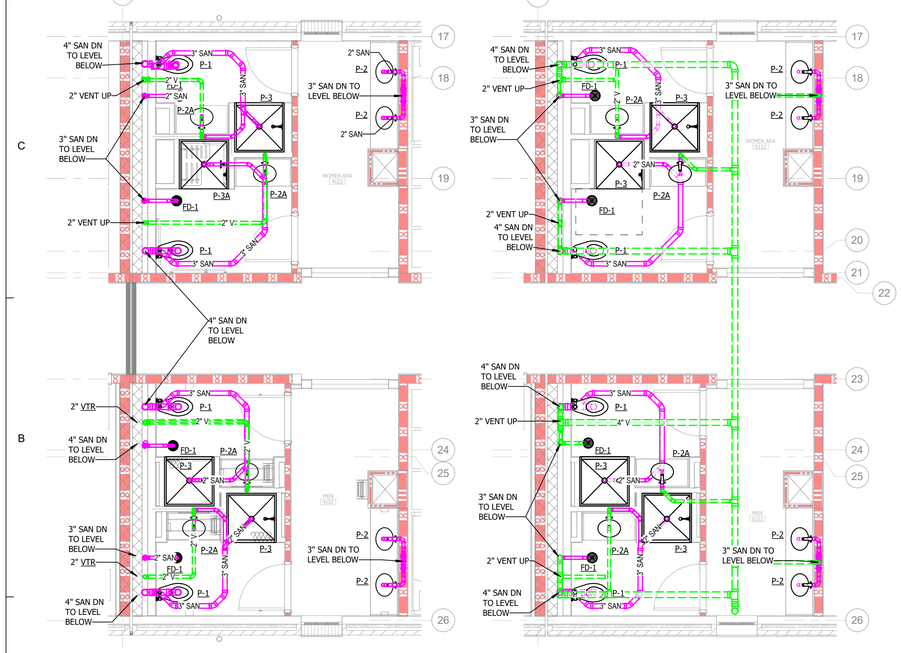
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1 PLUMBING WASTE/VENT PLAN - LEVEL 01 - ENLARGED RM 1122 & 1123

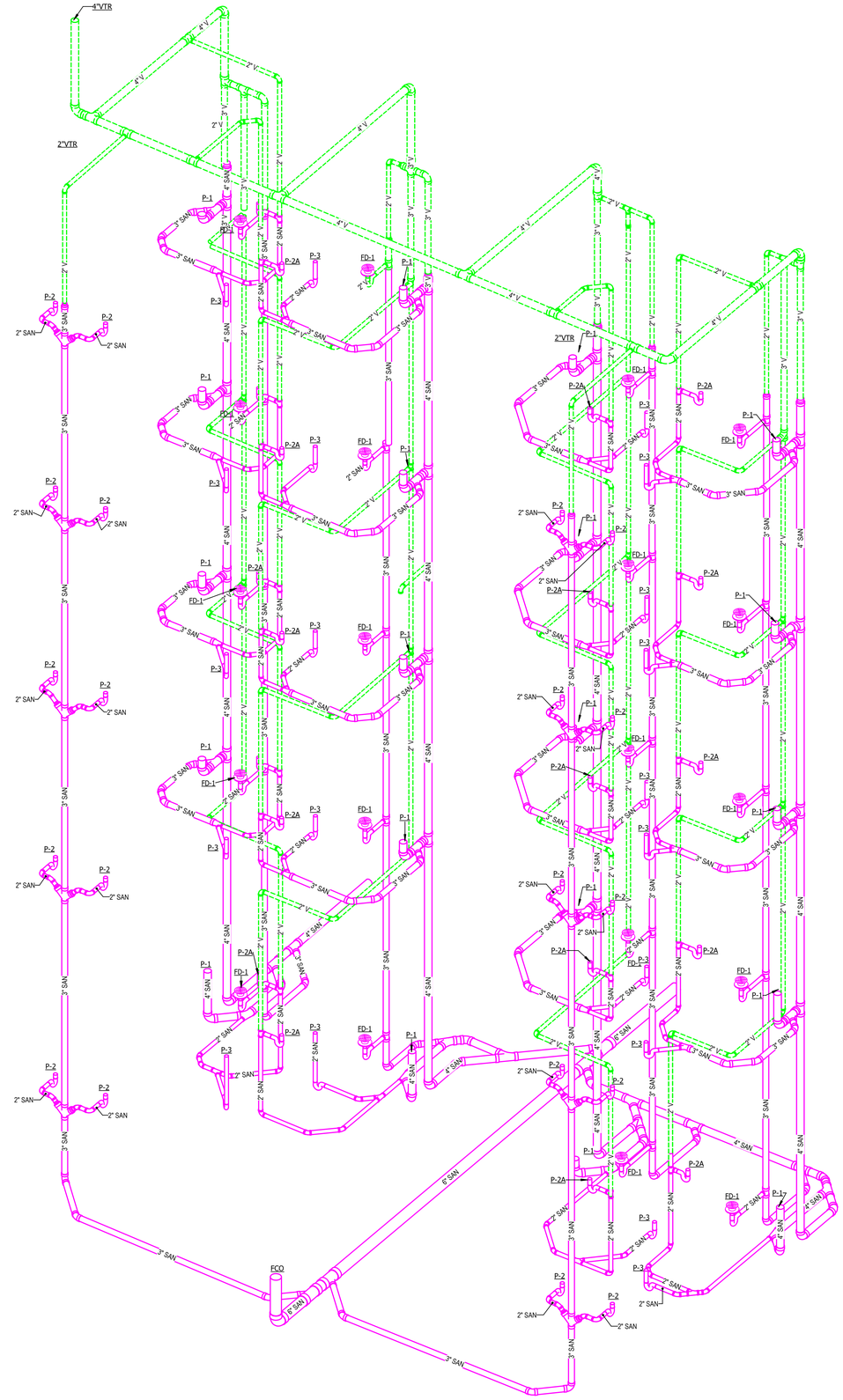
2 PLUMBING WASTE/VENT PLAN - LEVEL 02 - ENLARGED RM 2122 & 2123

3 PLUMBING WASTE/VENT PLAN - LEVEL 03 - ENLARGED RM 3122 & 3123



4 PLUMBING WASTE/VENT PLAN - LEVEL 04 - ENLARGED RM 4122 & 4123

5 PLUMBING WASTE/VENT PLAN - LEVEL 05 - ENLARGED RM 5122 & 5123



6 AREA B - 2122 & 2123 BATHROOM STACK WASTE & VENT ISOMETRIC
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

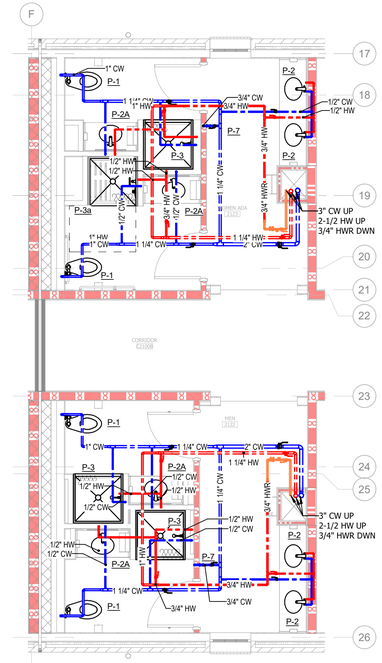
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

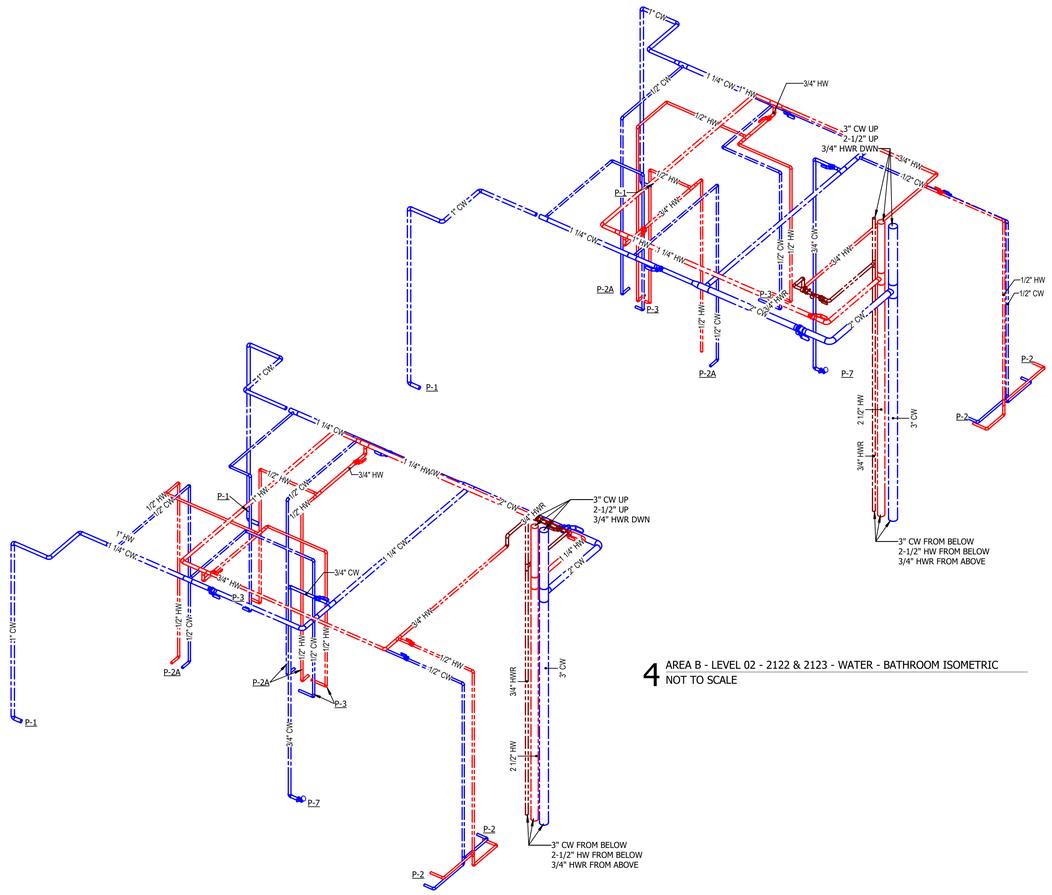
SHEET TITLE
PLUMBING WASTE/VENT-ENLARGED BATHROOM STACK PLANS/ ISOMETRICS (TYP)

SHEET NUMBER
P608

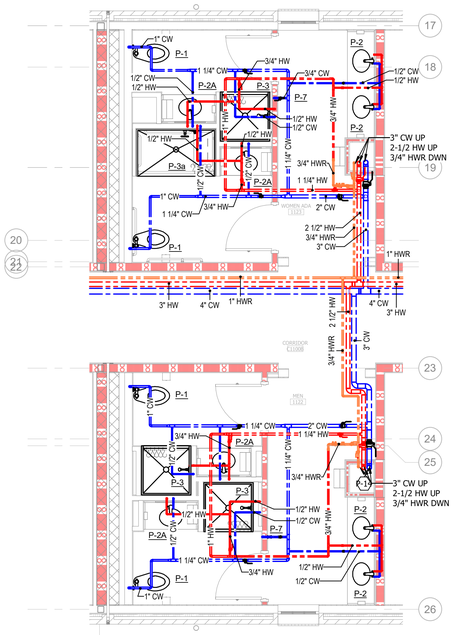
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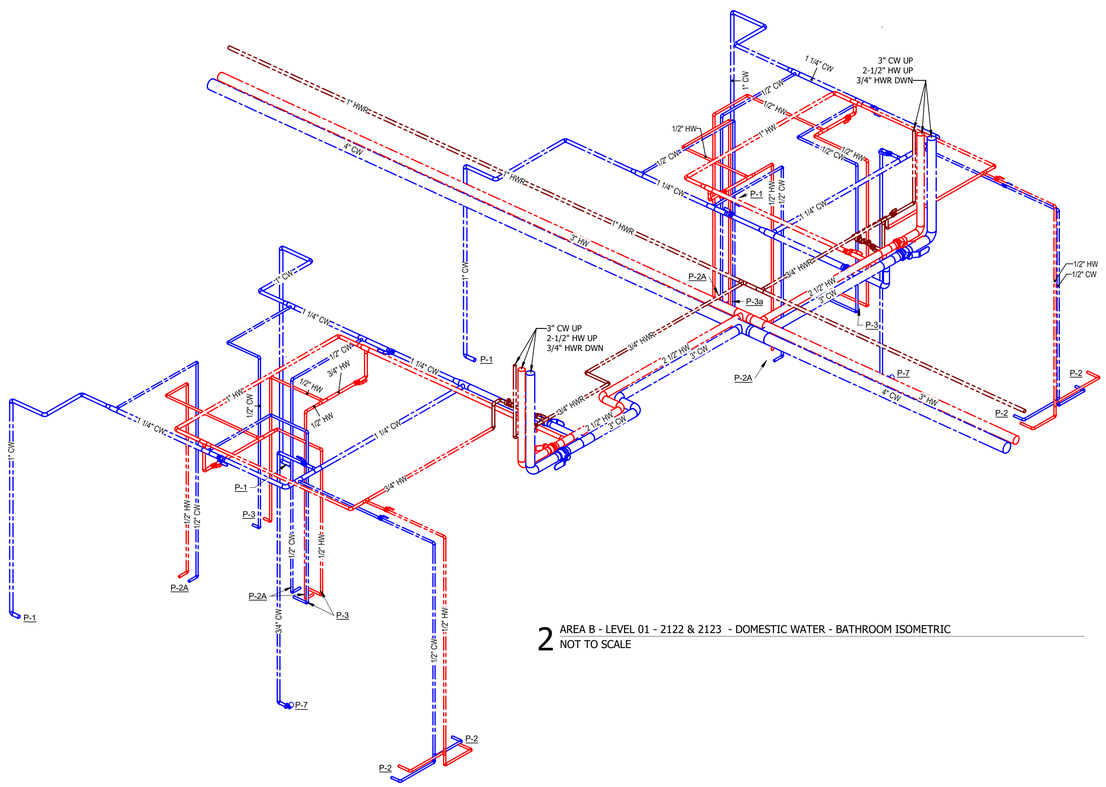
3 PLUMBING WATER/GAS PLAN - LEVEL 02 - ENLARGED RM 3122 & 3123



4 AREA B - LEVEL 02 - 2122 & 2123 - WATER - BATHROOM ISOMETRIC
NOT TO SCALE



1 PLUMBING WATER/GAS PLAN - LEVEL 01 - ENLARGED RM 2122 & 2123



2 AREA B - LEVEL 01 - 2122 & 2123 - DOMESTIC WATER - BATHROOM ISOMETRIC
NOT TO SCALE

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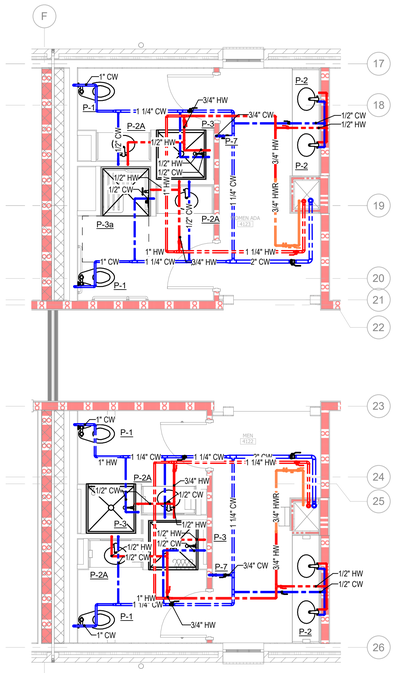
UNC WILMINGTON, NC

PROJECT NO.
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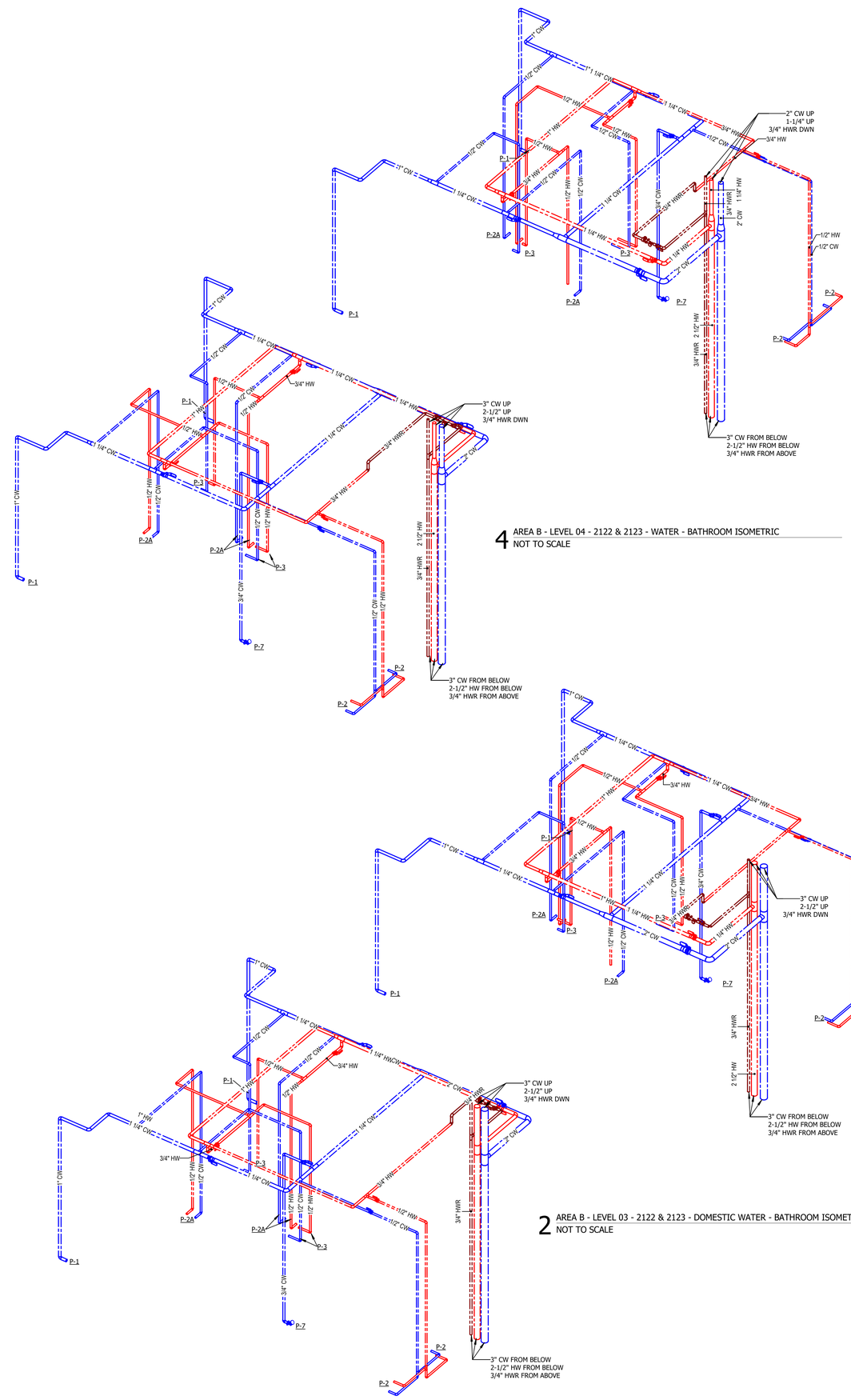
SHEET TITLE
PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLANS/ ISOMETRIC - LEVEL 01 & 02 (TYP)

SHEET NUMBER
P609

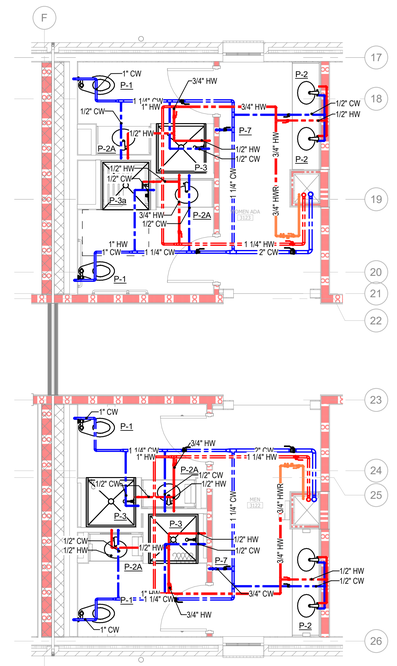
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3 PLUMBING WATER/GAS PLAN - LEVEL 04 - ENLARGED RM 4122 & 4123



4 AREA B - LEVEL 04 - 2122 & 2123 - WATER - BATHROOM ISOMETRIC
NOT TO SCALE



1 PLUMBING WATER/GAS PLAN - LEVEL 03 - ENLARGED RM 3122 & 3123

2 AREA B - LEVEL 03 - 2122 & 2123 - DOMESTIC WATER - BATHROOM ISOMETRIC
NOT TO SCALE

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REBECCA CLEWETT

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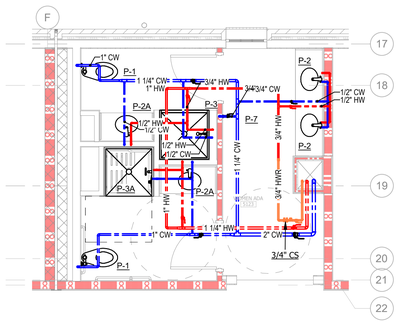
UNC WILMINGTON, NC

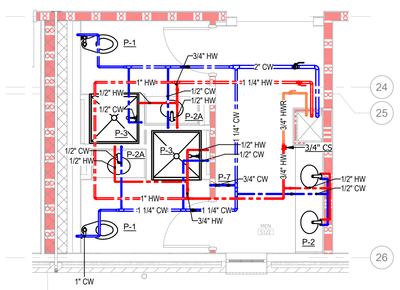
PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLANS/ ISOMETRIC - LEVEL 03 & 04 (TYP)

SHEET NUMBER
P610

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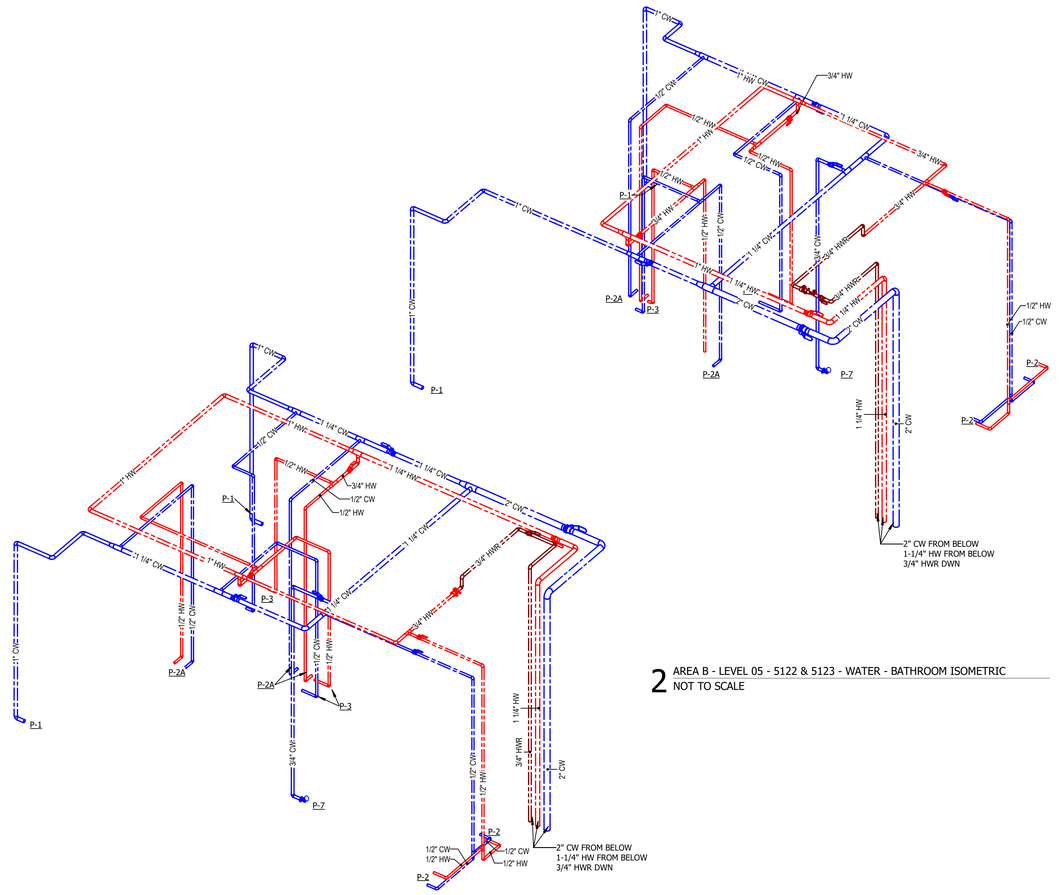




1 PLUMBING WATER/GAS PLAN - LEVEL 05 - ENLARGED RM 5122 & 5123

0 0.5 1 2 4 8 12 16

1/4" = 1'-0"



2 AREA B - LEVEL 05 - 5122 & 5123 - WATER - BATHROOM ISOMETRIC

NOT TO SCALE

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PROJECT NAME
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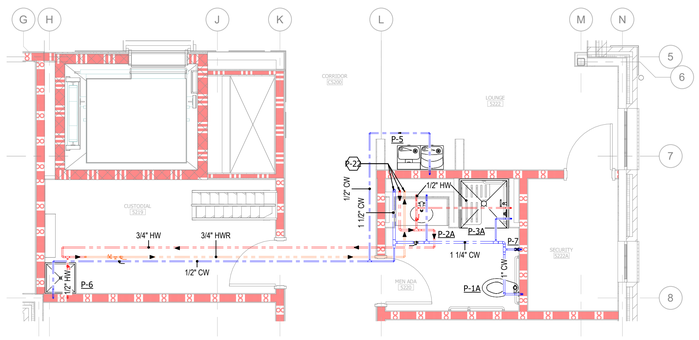
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

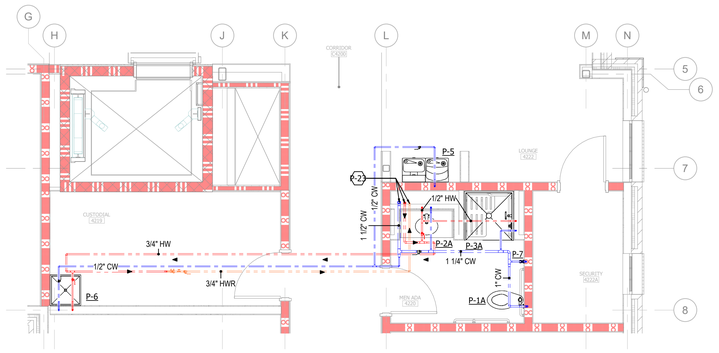
SHEET TITLE
PLUMBING DOMESTIC WATER - ENLARGED BATHROOM STACK PLAN/ ISOMETRIC - LEVEL 05 (TYP)

SHEET NUMBER
P611

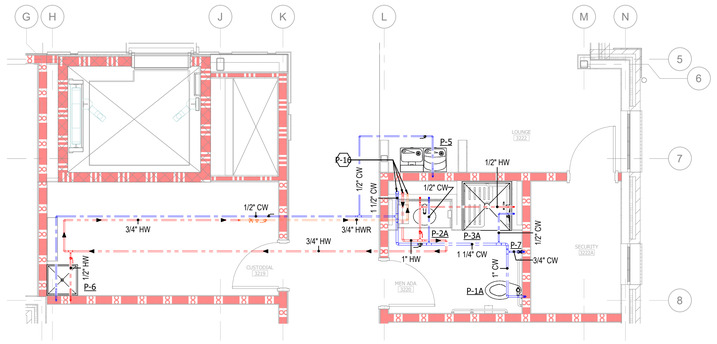
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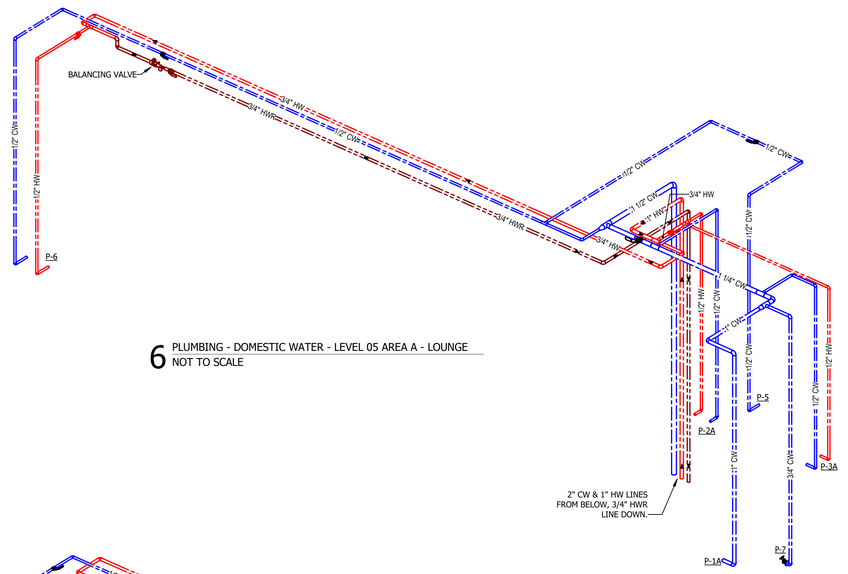
3 PLUMBING DOMESTIC WATER PLAN - LEVEL 05 AREA A - ENLARGED LOUNGE
NOT TO SCALE



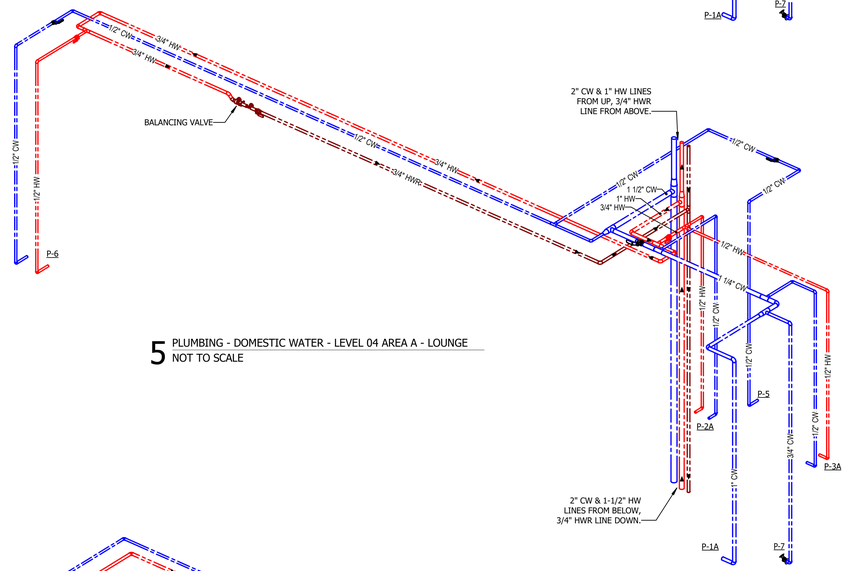
2 PLUMBING DOMESTIC WATER PLAN - LEVEL 04 AREA A - ENLARGED LOUNGE
NOT TO SCALE



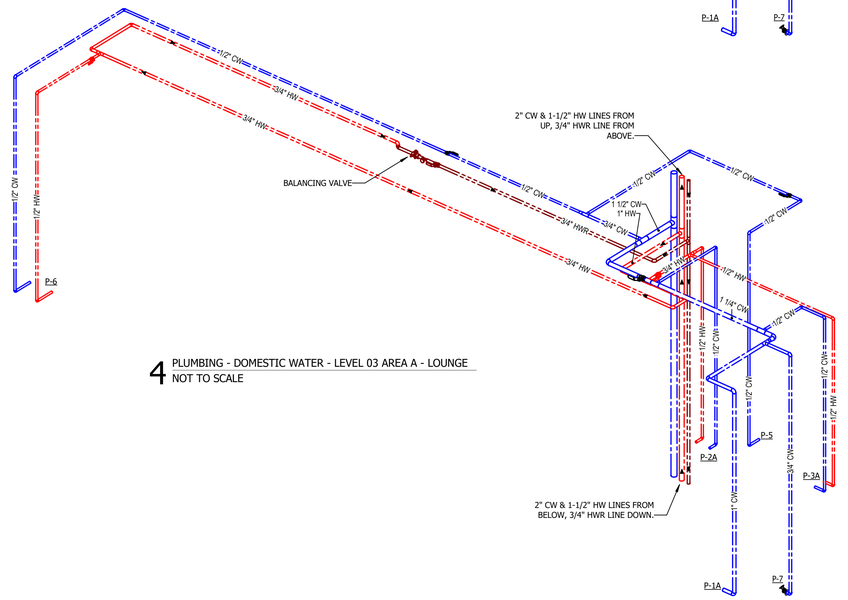
1 PLUMBING DOMESTIC WATER PLAN - LEVEL 03 AREA A - ENLARGED LOUNGE
NOT TO SCALE



6 PLUMBING - DOMESTIC WATER - LEVEL 05 AREA A - LOUNGE
NOT TO SCALE



5 PLUMBING - DOMESTIC WATER - LEVEL 04 AREA A - LOUNGE
NOT TO SCALE



4 PLUMBING - DOMESTIC WATER - LEVEL 03 AREA A - LOUNGE
NOT TO SCALE

SHEET KEYED NOTES

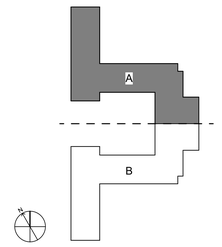
P-16 2" CW FROM BELOW, 1-1/2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 1-1/2" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.
P-22 2" CW FROM BELOW, 1" HW FROM BELOW, AND 3/4" HWR DOWN.
P-23 2" CW FROM BELOW, 1-1/2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 1-1/2" CW AND 1" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

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PRINCIPAL IN CHARGE: JAMES CURRIE, PE
PROJECT MANAGER: DAN KNOX, PE
DESIGN TEAM: REBECCA CLEWETT

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

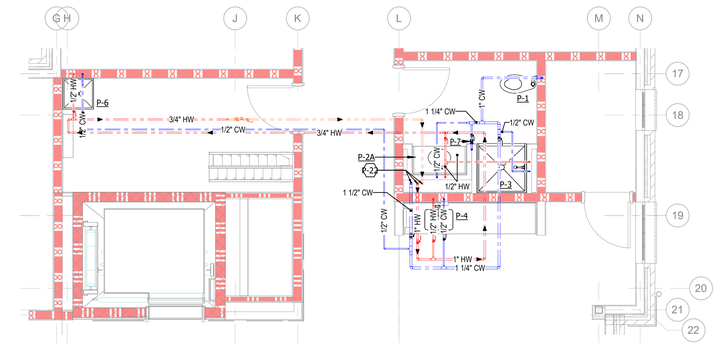
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

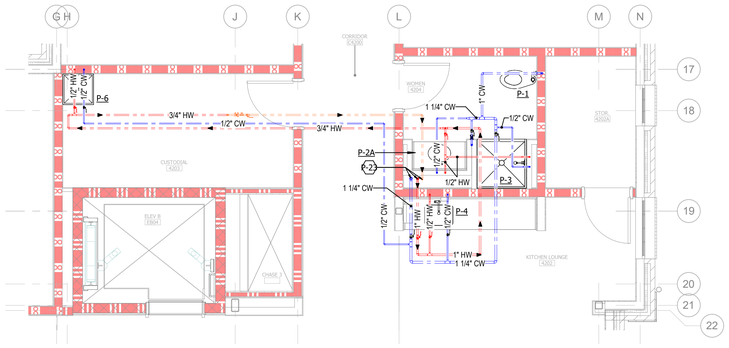
SHEET TITLE: PLUMBING DOMESTIC WATER - ENLARGED LOUNGE STACK PLAN/ ISOMETRIC - AREA A

SHEET NUMBER: P612

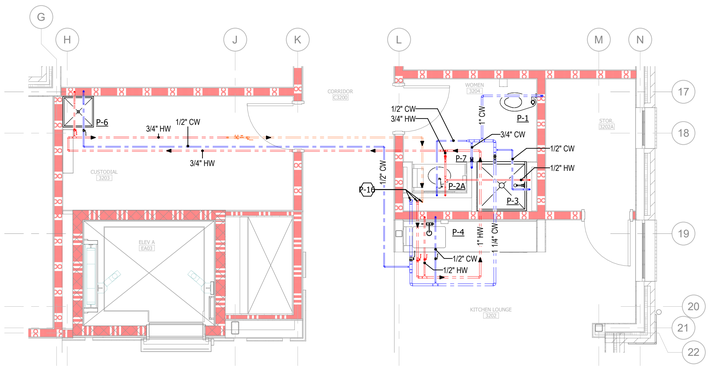
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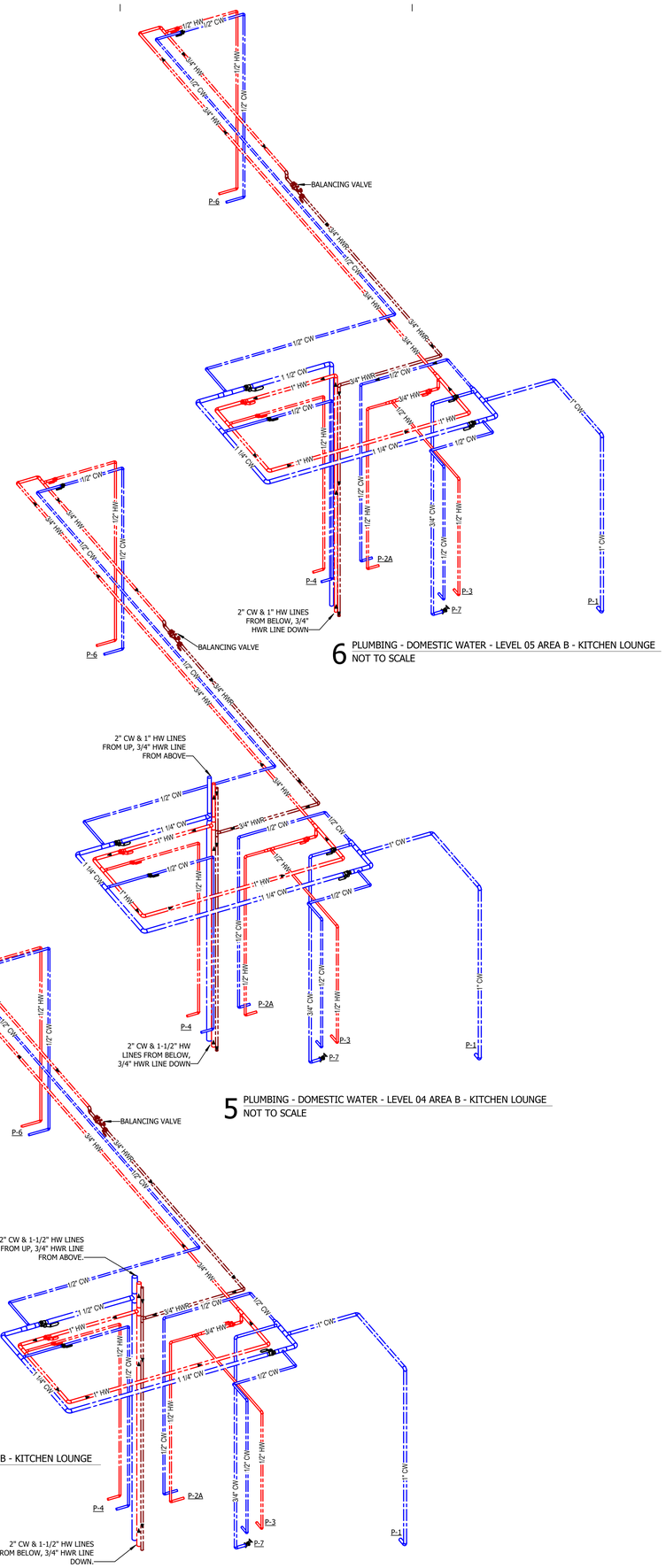
3 PLUMBING DOMESTIC WATER PLAN - LEVEL 05 - ENLARGED KITCHEN LOUNGE AREA



2 PLUMBING DOMESTIC WATER PLAN - LEVEL 04 - ENLARGED KITCHEN LOUNGE AREA



1 PLUMBING DOMESTIC WATER PLAN - LEVEL 03 - ENLARGED KITCHEN LOUNGE AREA



6 PLUMBING - DOMESTIC WATER - LEVEL 05 AREA B - KITCHEN LOUNGE
NOT TO SCALE

5 PLUMBING - DOMESTIC WATER - LEVEL 04 AREA B - KITCHEN LOUNGE
NOT TO SCALE

4 PLUMBING - DOMESTIC WATER - LEVEL 03 AREA B - KITCHEN LOUNGE
NOT TO SCALE

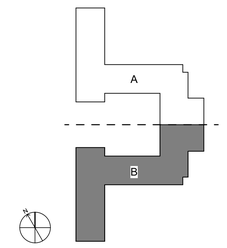
SHEET KEYED NOTES

P-16 2" CW FROM BELOW, 1-1/2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 2" CW AND 1-1/2" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

P-22 2" CW FROM BELOW, 1" HW FROM BELOW, AND 3/4" HWR DOWN.

P-23 2" CW FROM BELOW, 1-1/2" HW FROM BELOW, AND 3/4" HWR FROM ABOVE. 1-1/2" CW AND 1" HW LINES TO CONTINUE TO FLOOR AND ABOVE AND 3/4" HWR LINE TO CONTINUE TO FLOOR BELOW.

KEY PLAN



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DESIGN TEAM
REBECCA CLEWETT

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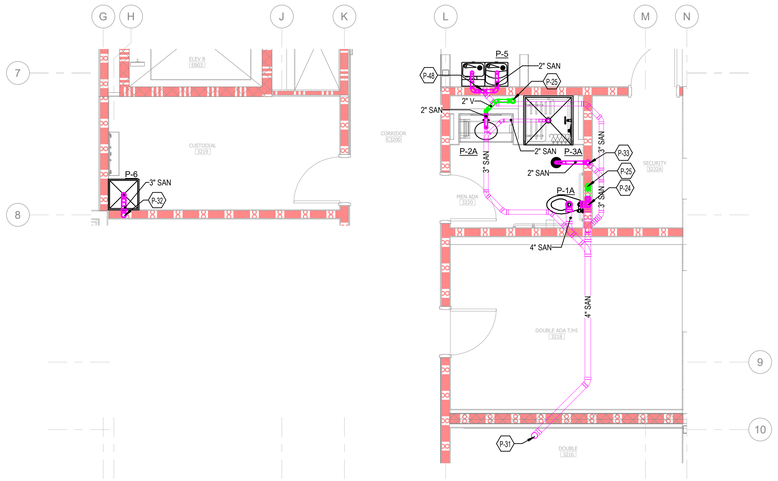
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DOMESTIC WATER - ENLARGED KITCHEN LOUNGE STACK PLAN/ ISOMETRIC - AREA B

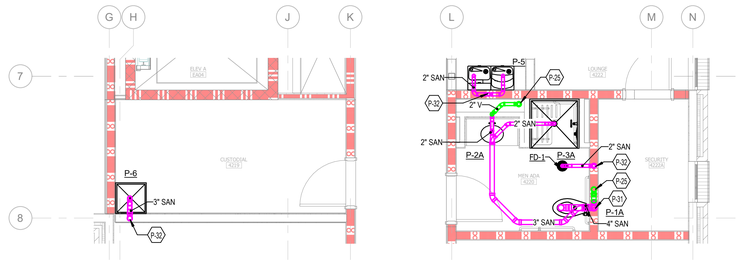
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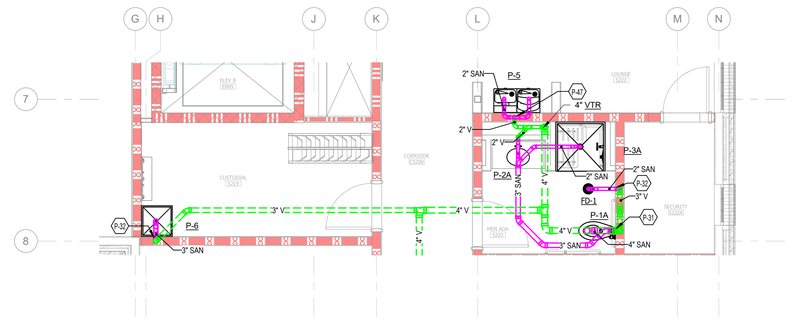
1 PLUMBING WASTE/VENT PLAN - LEVEL 03 AREA A - ENLARGED LOUNGE

1/4" = 1'-0"



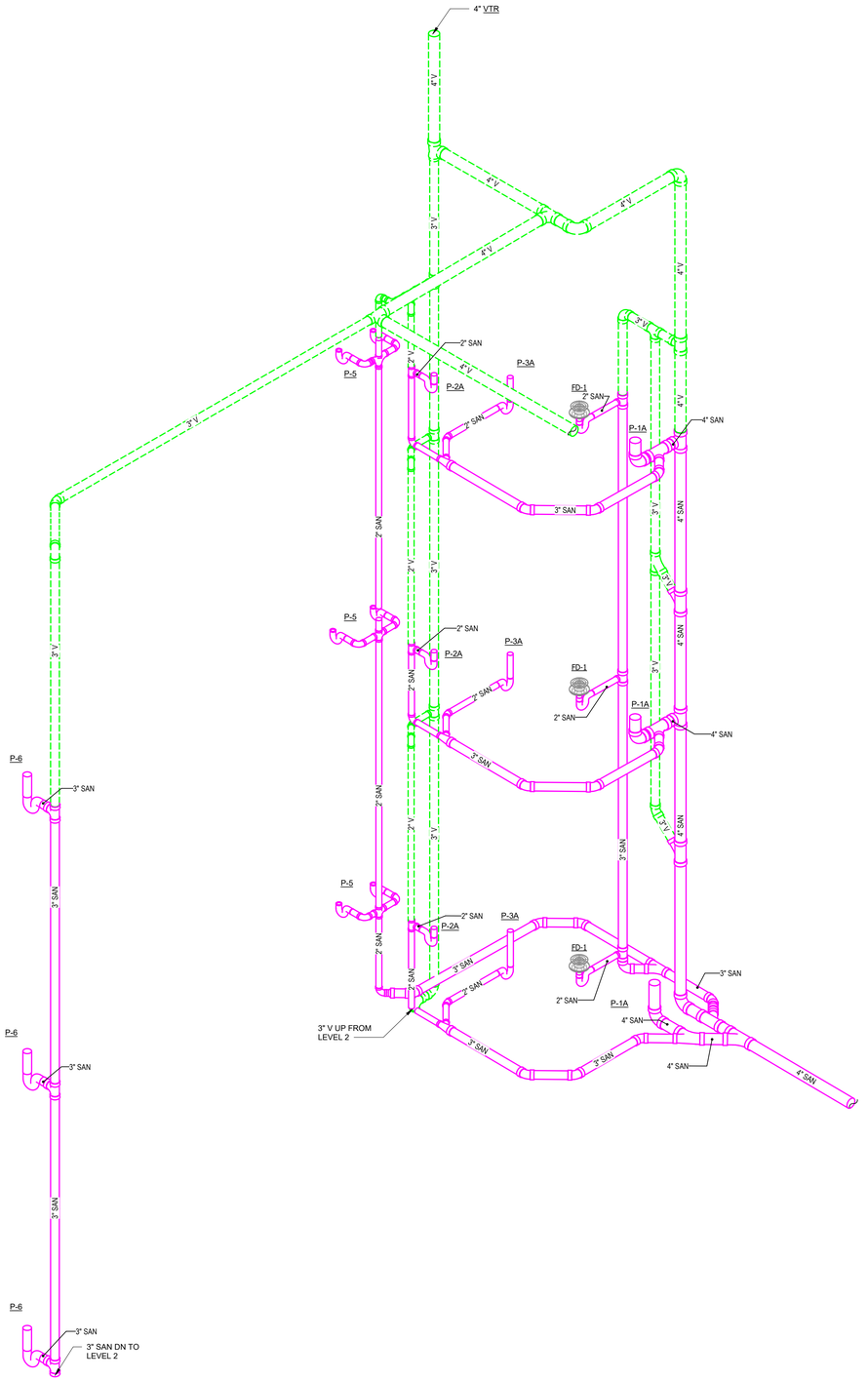
2 PLUMBING WASTE/VENT PLAN - LEVEL 04 AREA A - ENLARGED LOUNGE

1/4" = 1'-0"



3 PLUMBING WASTE/VENT PLAN - LEVEL 05 AREA A - ENLARGED LOUNGE

1/4" = 1'-0"



4 PLUMBING WASTE/VENT - LEVEL 03-05 AREA B - LOUNGE RISER

NOT TO SCALE

SHEET KEYED NOTES

P-24	4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
P-25	3"VENT LINE UP.
P-31	4" SANITARY WASTE LINE DOWN.
P-32	3" SANITARY WASTE LINE DOWN.
P-33	3" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
P-47	2" SANITARY WASTE LINE DOWN.
P-48	2" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.

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PROJECT NAME
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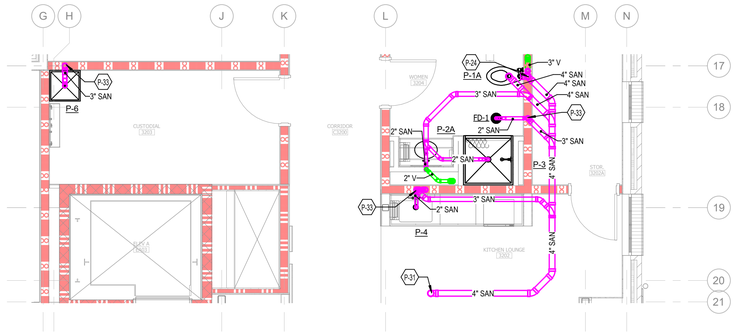
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

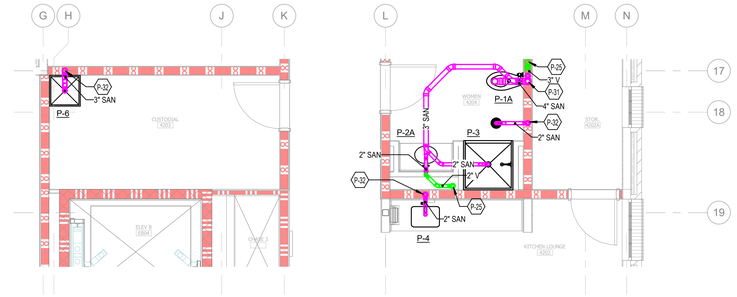
SHEET TITLE
PLUMBING WASTE/VENT - ENLARGED LOUNGE STACK PLAN/ ISOMETRIC - AREA A

SHEET NUMBER
P614

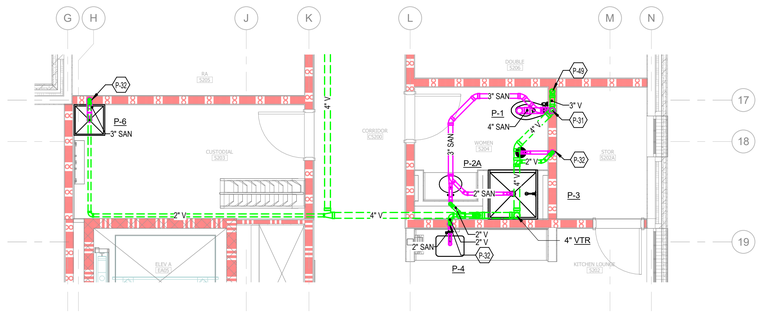
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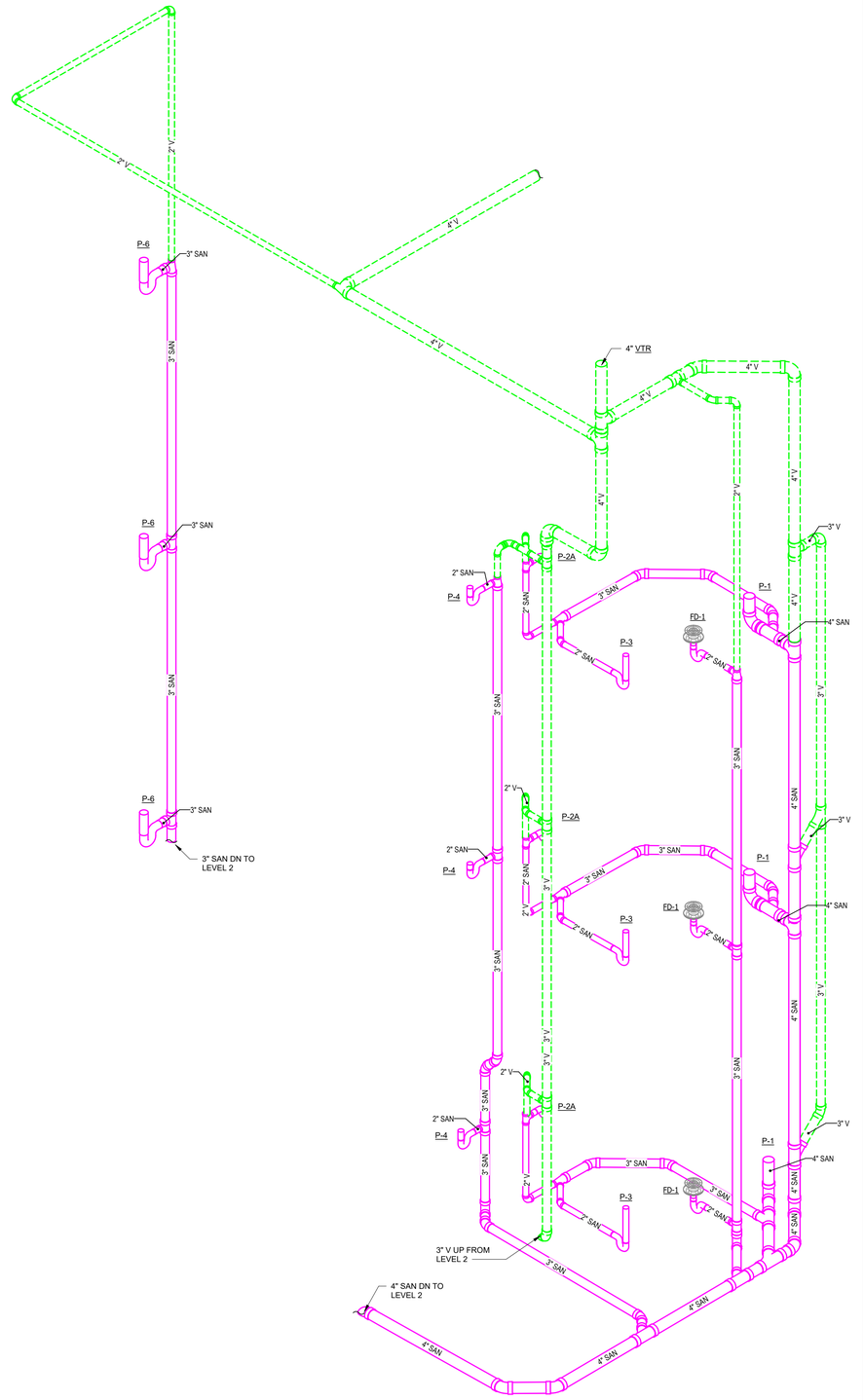
1 PLUMBING WASTE/VENT PLAN - LEVEL 03 AREA B - ENLARGED KITCHEN/LOUNGE



2 PLUMBING WASTE/VENT PLAN - LEVEL 04 AREA B - ENLARGED KITCHEN/LOUNGE



3 PLUMBING WASTE/VENT PLAN - LEVEL 05 AREA B - ENLARGED KITCHEN/LOUNGE



4 PLUMBING WASTE/VENT - LEVEL 03-05 AREA B - KITCHEN/LOUNGE RISER
NOT TO SCALE

SHEET KEYED NOTES

P-24	4" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
P-25	3"VENT LINE UP.
P-31	4" SANITARY WASTE LINE DOWN.
P-32	3" SANITARY WASTE LINE DOWN.
P-33	3" SANITARY WASTE LINE DOWN FROM ABOVE. PROVIDE WCO IN BASE OF STACK.
P-49	3" VENT UP FROM FLOOR BELOW.

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

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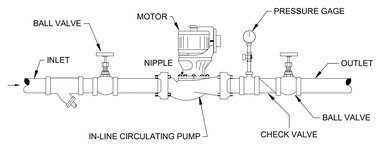
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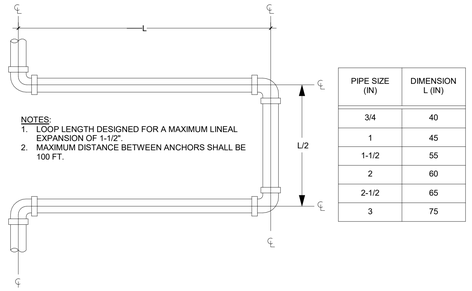
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PLUMBING WASTE/VENT - ENLARGED KITCHEN LOUNGE STACK PLAN/ ISOMETRIC - AREA B

SHEET NUMBER
P615

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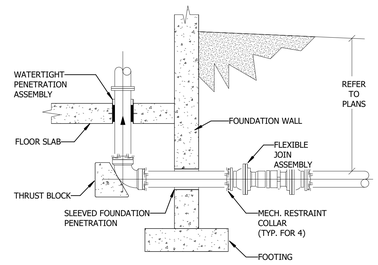
1 CIRCULATING PUMP DETAIL
NOT TO SCALE



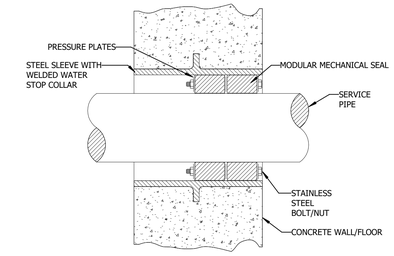
NOTES:
1. LOOP LENGTH DESIGNED FOR A MAXIMUM LINEAL EXPANSION OF 1-1/2".
2. MAXIMUM DISTANCE BETWEEN ANCHORS SHALL BE 100 FT.

PIPE SIZE (IN)	DIMENSION L (IN)
3/4	40
1	45
1-1/2	55
2	60
2-1/2	65
3	75

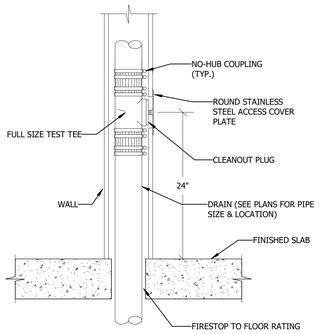
2 HOT WATER EXPANSION LOOP DETAIL
NOT TO SCALE



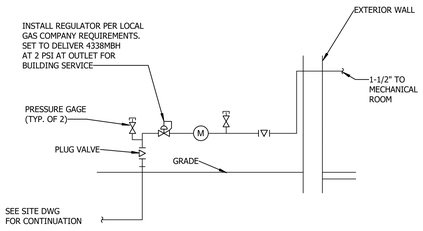
3 WATER SERVICE THROUGH FLOOR DETAIL
NOT TO SCALE



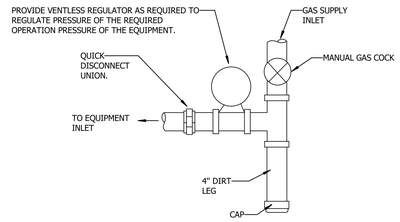
4 WATERTIGHT PIPE PENETRATION DETAIL
NOT TO SCALE



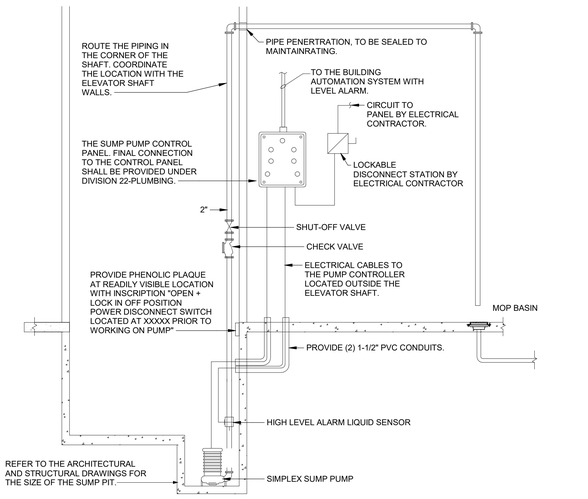
5 WALL CLEANOUT DETAIL
NOT TO SCALE



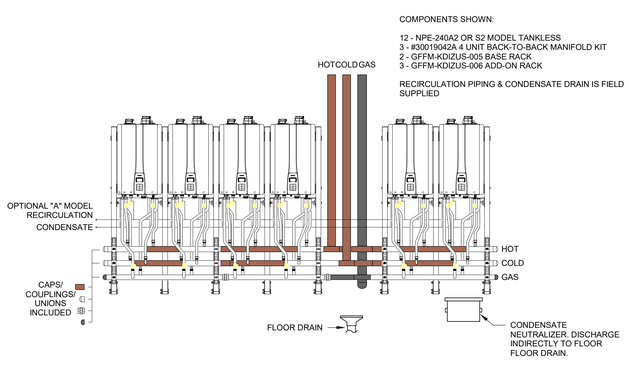
6 GAS SERVICE ENTRANCE DETAIL
NOT TO SCALE



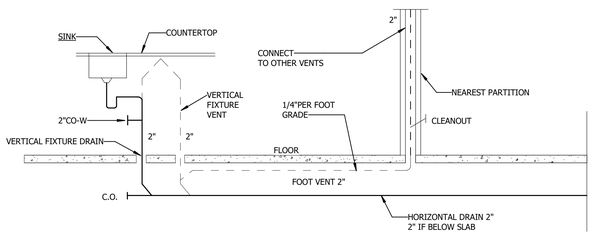
7 GAS CONNECTION DETAIL
NOT TO SCALE



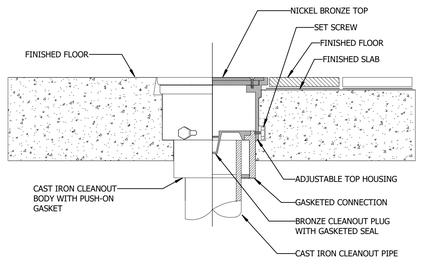
8 ELEVATOR SUMP DETAIL
NOT TO SCALE



9 GAS-FIRED INSTANTANEOUS WATER HEATER
NOT TO SCALE



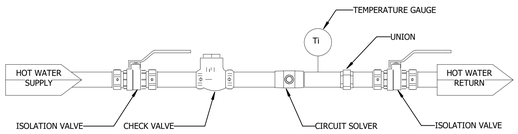
10 LAUNDRY SINK VENT DETAIL
NOT TO SCALE



NOTE:

WHERE INSTALLING WITHIN AN EXISTING SLAB, SLAB WILL NEED TO BE CUT, CLEANOUTS PLACED, AND RE-POURED. COORDINATE WITH CONCRETE CONTRACTOR.

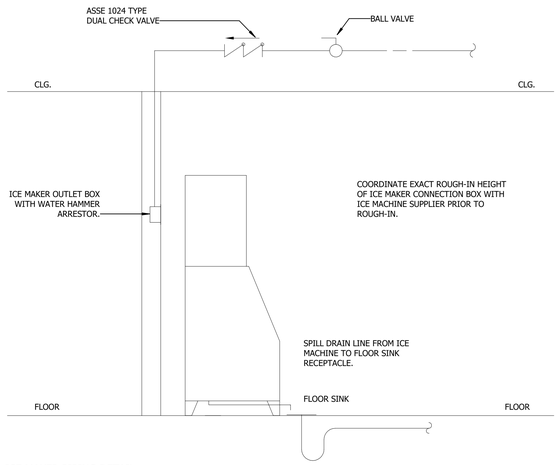
11 FLOOR CLEANOUT DETAIL
NOT TO SCALE



NOTES:

1. INSTALL CIRCUIT SOLVER WITH MIN. 6" OF STRAIGHT PIPE ON EITHER SIDE.

12 HOT WATER RETURN ASSEMBLY DETAIL
NOT TO SCALE



13 ICE MAKER PIPING DETAIL
NOT TO SCALE

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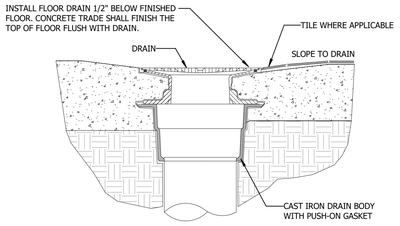
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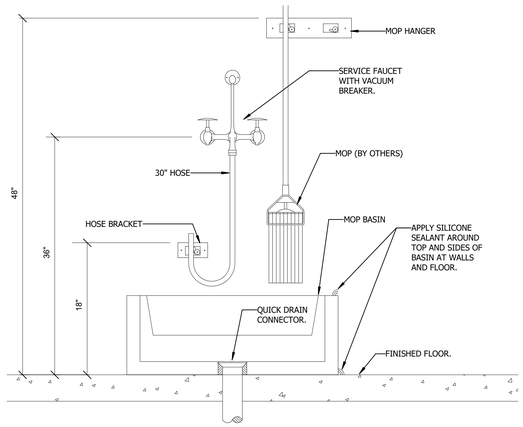
SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER
P901

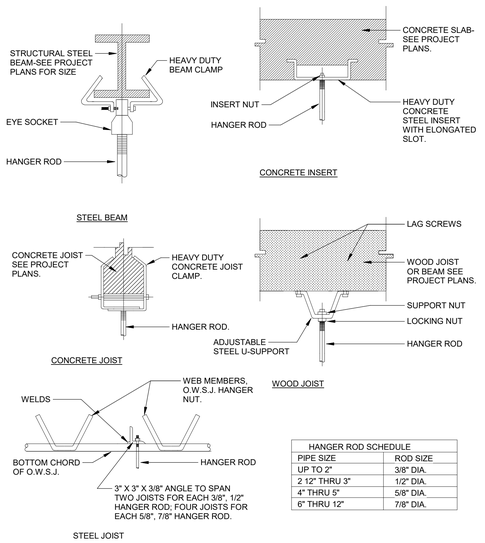
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1 FINISHED FLOOR DRAIN DETAIL
NOT TO SCALE

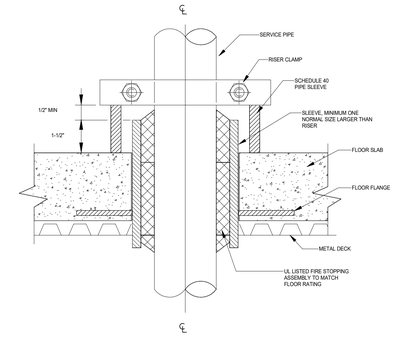


2 MOP SINK DETAIL
NOT TO SCALE

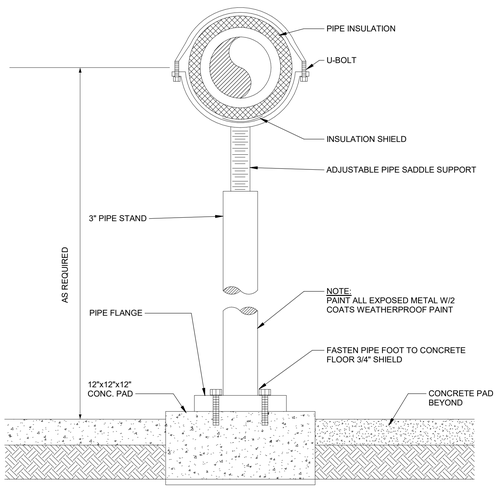


HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" THRU 3"	1/2" DIA.
4" THRU 5"	5/8" DIA.
6" THRU 12"	7/8" DIA.

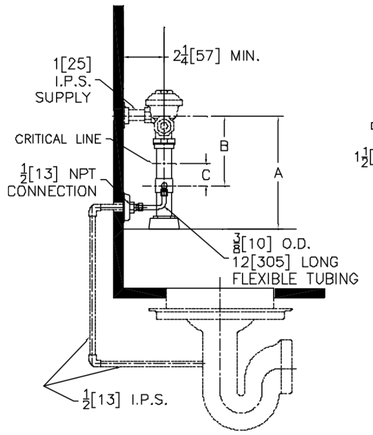
3 PIPE HANGER ATTACHMENT DETAIL
NOT TO SCALE



4 PIPE RISER SUPPORT DETAIL
NOT TO SCALE

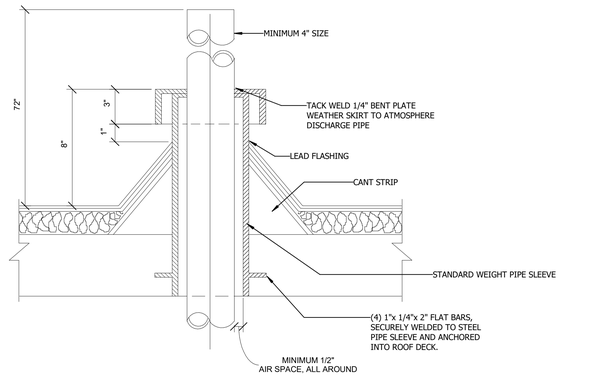


5 PIPE SUPPORT STAND DETAIL
NOT TO SCALE

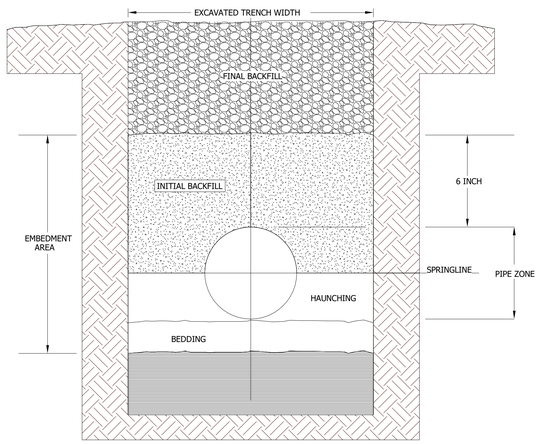


Product No.	A In.	A MM.	B In.	B MM.	C In.	C MM.
P6000-TPO	11 1/2	292	7 1/8	181	2 3/8	60
P6000-1-TPO	16	406	11 3/8	289	6 3/8	162
P6000-2-TPO	24	610				
P6000-3-TPO	27	686				
Longer Lengths As Specified						

6 TRAP PRIMER DETAIL
NOT TO SCALE



7 VENT PIPE THROUGH ROOF DETAIL
NOT TO SCALE



8 UNDERGROUND PVC DRAINAGE PIPING INSTALLATION DETAIL
NOT TO SCALE

UNDERGROUND INSTALLATION OF PLASTIC PIPE

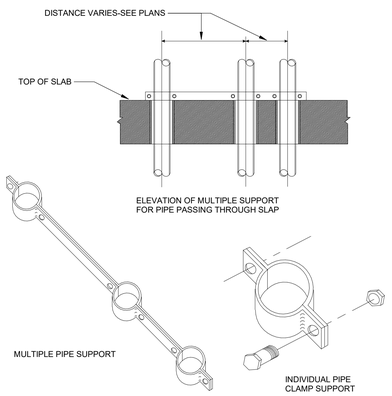
PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

- ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.
- ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

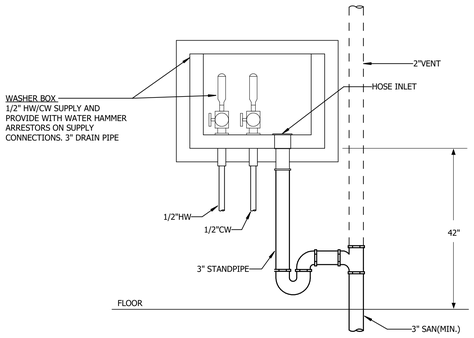
NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.



9 VERTICAL PIPE SUPPORT DETAIL
NOT TO SCALE



10 WASHER BOX DETAIL
NOT TO SCALE

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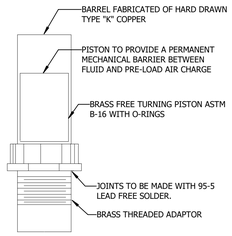
UNC WILMINGTON, NC

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SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER
P902

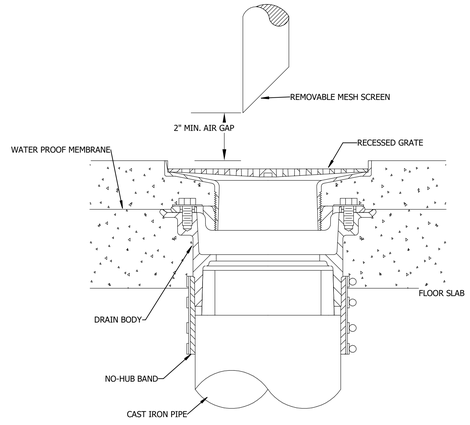
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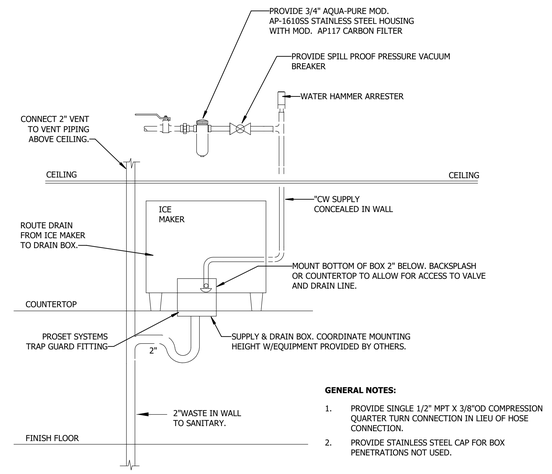
PIPE SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A DIM.	B DIM.
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

NOTE: SEE WATER RISER DIAGRAMS FOR LOCATION OF SHOCK ARRESTERS.

1 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



2 INDIRECT WASTE DRAIN DETAIL
NOT TO SCALE



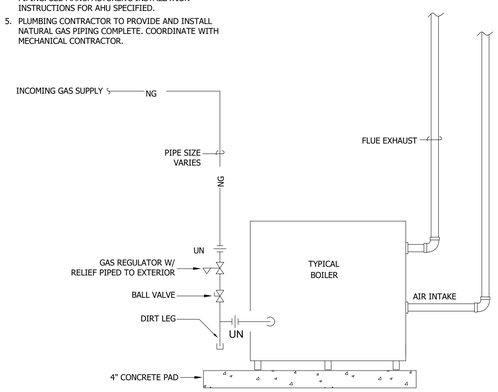
GENERAL NOTES:

1. PROVIDE SINGLE 1/2" MPT X 3/8"OD COMPRESSION QUARTER TURN CONNECTION IN LIEU OF HOSE CONNECTION.
2. PROVIDE STAINLESS STEEL CAP FOR BOX PENETRATIONS NOT USED.

3 COUNTERTOP ICE MACHINE DETAIL
NOT TO SCALE

GENERAL NOTES

1. INTAKE & EXHAUST PIPING BY MECH. CONTR.
2. SEAL WALL PENETRATION WITH APPROVED UL SYSTEM.
3. MAINTAIN 30'-0" FROM ALL FRESH AIR INTAKES.
4. MECH. CONTR. TO INSTALL INTAKE & EXHAUST PIPING PER SIZE AND ROUTING REQUIREMENTS FOR LONGER RUNS OF PIPING. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR AHU SPECIFIED.
5. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL NATURAL GAS PIPING COMPLETE. COORDINATE WITH MECHANICAL CONTRACTOR.



4 GAS CONNECTION - BOILER DETAIL
NOT TO SCALE

5 GRADE CLEANOUT DETAIL
NOT TO SCALE

6 ROOF DRAIN DETAIL
NOT TO SCALE

7 FLOOR SINK DETAIL
NOT TO SCALE

8 GAS PIPING DIAGRAM
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE
RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
PLUMBING DETAILS

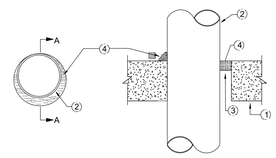
SHEET NUMBER
P903

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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SYSTEM NO. C-AJ-1044

MARCH 15, 2007

F RATINGS - 2, 3, AND 4 HR (SEE ITEMS 2A AND 4)
T RATING - 0 HR
L RATING AT AMBIENT - 2 CFM/SQ. FT.
L RATING AT 400°F - LESS THAN 1 CFM/SQ. FT.



SECTION A-A

1. Floor or Wall Assembly - Lightweight or normal weight (100-150pcf) concrete. Except as noted in table under Item 4, min. thickness of solid concrete floor or wall assembly is 4-1/2 in. Floor may also be constructed of any min. 6 in. thick UL Classified hollow core Precast Concrete Units*. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL classified Concrete Blocks*, Max. Diam. of opening is in solid lightweight or normal weight concrete. Floor is 32 in. Max. diam. of opening in floor constructed of hollow-core precast concrete units is 7 in.

   See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturer's.

1A. Steel Sleeve - (Optional, not shown) - Max. 15 in. ID (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max. of 2 in. above top of floor or beyond either surface of wall. Max. 16 in. ID (or smaller) min. 0.028 wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max. of 1/2 in. beyond either surface of floor or wall.

2. Through Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max. annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in item 4. Min. annular space between pipe or conduit and edge of through opening is zero in. (point contact). Pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used.

   A. Steel Pipe - Nom. 30 in. diam. (or smaller) Schedule 10 (or heavier) steel pipe.

   B. Iron Pipe - Nom. 30 in. diam. (or smaller) cast or ductile iron pipe.

3. Packing Material - Polyethylene backer rod or nom. 1 in. thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

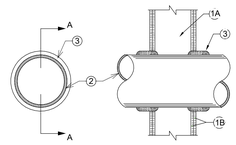
3A. Forming Material*—As an alternate to the packing material in Item 3, nom. 4 in. wide strips of min 1/2 in thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. depth. As an option, the strips of min 1/2 in. thick compressible mat may be folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 2 in. depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.
3M COMPANY – Fire Barrier Packing Material

4. Fill, Void or Cavity Material* - Caulk - Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min. 1/4 in. diam. bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min. required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

SYSTEM NO. W-L-1001

JUNE 15, 2005

F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F - LESS THAN 1 CFM/SQ. FT.



SECTION A-A

1. Wall Assembly - The 1, 2, 3 or 4 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 of U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs (max. 2h fire rated assembled) or steel channel studs. Wood studs to consist of nom. 2 by 4 in. lumber spaced 16 in. O.C. with nom. 2 by 4 in. lumber end plates and cross braces. steel studs to be min. 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24 in. O.C.

   B. Gypsum Board* - Nom. 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diam of opening is 26 in.

2. Through-Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max. 2 in, Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used.
   A. Steel Pipe - Nom. 24 in. diam. (or smaller) Schedule 10 (or heavier) steel pipe.

   B. Iron Pipe - Nom. 24 in. diam. (or smaller) service weight (or heavier) cast iron soil pipe, nom. 12 in. diam. (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

3. Fill, Void or Cavity Material* - Caulk - Min. 5/8. 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr. rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min. 1/4 in. diam. bead of caulk applied to gypsum board/pentrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam. In.	F Rating Hr.	T Rating Hr.
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY - CP 25WB+

*Bearing the UL Classification Mark.

FIRE PROTECTION GENERAL NOTES:

1. PIPE HANGERS AND CONCRETE INSERTS UTILIZED FOR FIRE PROTECTION THIS PROJECT SHALL BE PROVIDED BY THE FIRE PROTECTION SUB-CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC.
2. ALL LINTELS REQUIRED IN MASONRY AND STUD WALLS FOR PIPING PENETRATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
3. FOR EXACT LOCATION OF RISER COORDINATE VERTICAL PIPING WITH ARCHITECTURAL PLANS. IF THERE IS A CONFLICT, NOTIFY THE ARCHITECT PRIOR TO INSTALLATION.
4. UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS ALL SPRINKLER HEADS INSTALLED WITHIN LAY-IN CEILINGS SHALL BE CENTERED IN THE TILE EQUAL DISTANCE.
5. ALL SPRAY ON FIREPROOFING WHICH SETTLES ON FIRE PROTECTION PIPING SHALL BE REMOVED BY THE GENERAL CONTRACTOR.
6. HYDRAULIC CALCULATIONS AND FABRICATION SHOP DRAWINGS BASED ON ACTUAL CODE REFINEMENTS SHALL BE A PART OF THIS CONTRACT.
7. PROVIDE SWING JOINTS WITH ARM OVERS OR FLEXIBLE ARM OVERS PER SPECIFICATIONS AS JOB CONDITIONS INDICATE FOR FUTURE ADJUSTMENTS TO UP-FIT CEILING CONDITIONS.
8. PROVIDE 1" MINIMUM DIAMETER PIPING TO A SINGLE SPRINKLER HEAD.
9. UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS SPRINKLER HEADS INSTALLED IN GYP BOARD CEILINGS SHALL BE CENTERED WITH THE LIGHTS AND DIFFUSERS.
10. THE FIRE PROTECTION DRAWINGS ARE APPLICABLE TO THE GENERAL CONTRACT.
11. COORDINATE ALL WORK OUTSIDE OF A DESIGNATED AREA OF GENERAL CONSTRUCTION WITH THE OWNER OR THE ARCHITECTS REPRESENTATIVE.
12. THE FIRE PROTECTION SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANUP AND DEBRIS REMOVAL OF ITEMS GENERATOR BY HIS WORK. ALL TRASH BINS USED SHALL BE INDEPENDENT OF THE OWNERS.
13. ALL PIPING IN PUBLIC AREAS SHALL BE CONCEALED. NOTIFY THE ARCHITECT IN CASE OF CONFLICT PRIOR TO INSTALLATION.
14. FOR SPECIFIC LOCATIONS OF ALL DEVICES, OUTLETS, CONTROLS, FIXTURES, ETC., IN THE WALLS, CEILINGS AND FLOORS OF PUBLIC AREAS, REFER TO THE ARCHITECTURAL FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS AND DETAILS FOR DIMENSIONS. IF THERE IS A CONFLICT IN THE LOCATION SHOWN IN THE DRAWINGS, CONSULT THE ARCHITECT FOR THE REVISED LOCATION.
15. THE REQUIRED SHOP DRAWINGS SHALL SPECIFICALLY INDICATE ALL EXPOSED PIPING BY NOTE IN PUBLIC AREAS. THIS SUB-CONTRACTOR SHALL PROVIDE DETAILS INDICATING THE METHOD OF ROUTING, HANGING AND COORDINATION WITH THE OTHER BUILDING COMPONENTS. THE EXPOSED PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE TO BE ACCESSED BY STANDARD LADDER AND IN AN ORDERLY MANNER.
16. THE FIRE PROTECTION SUB-CONTRACTOR SHALL COORDINATE THE PIPE ROUTING WITHIN THE ELECTRICAL ROOMS TO AVOID CROSSING OVER ELECTRICAL PANELS. THE FIRE PROTECTION SUB-CONTRACTOR SHALL INDICATE THE ELECTRICAL PANELS ON THE REQUIRED SHOP DRAWING FLOOR PLANS AS CONFIRMATION OF THIS COORDINATION EFFORT.
17. THE SPRINKLER HEAD LAYOUT INDICATED ON THE FLOOR PLANS SHALL BE USED AS A GUIDE THAT HAS BEEN COORDINATED WITH THE ARCHITECT. IN ADDITION TO WHAT IS INDICATED ON THESE DOCUMENTS THE FIRE PROTECTION SUB-CONTRACTOR SHALL PROVIDE THE COMPLETE SYSTEM AS REQUIRED PER CODE AND COORDINATED WITH THE CONSTRUCTION DOCUMENTS. ANY ADDITIONAL SYSTEM COMPONENTS REQUIRED BUT NOT INDICATED ON THESE DRAWINGS SHALL BE PROVIDED NO ADDITIONAL COST TO THE OWNER.
18. ALL MATERIALS INSTALLED WITHIN THE AIR PLENUM WILL MEET THE NC MECHANICAL CODE SECTION 602.
19. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SCOPE OF WORK BETWEEN THE TRADES PRIOR TO PERFORMING ANY WORK. REFER TO THE SPECIFICATIONS AND DETAILS FOR INSTALLATION INSTRUCTIONS.
20. ALL FIRE PROTECTION HANGERS, INSERTS, CLAMPS, STANCHIONS, BRACKETS, AND ALL THREAD RODS SHALL BE HOT DIPPED GALVANIZED.
21. SPRINKLER PIPES / NOISE AND VIBRATION CONTROL
    a. FIRE PROTECTION PIPES MAY BE SLEEVED AND SEALED AS DESCRIBED BELOW, OR MAY BE GROUTED AND CAULKED INTO THE STRUCTURE AS FOLLOWS: BEFORE GROUT HAS SET, RAKE A GROOVE AROUND THE PIPE ON EACH SIDE OF THE WALL OR SLAB; GROOVE SHALL BE 1/2 INCH WIDE AND 1/2 INCH DEEP. AFTER GROUT HAS SET, FILL GROOVE FULL DEPTH WITH SEALANT.
    b. WHERE A PIPE PASSES THROUGH A WALL, CEILING OR FLOOR SLAB, A STEEL SLEEVE SHALL BE CAST OR GROUTED INTO THE STRUCTURE. THE INTERNAL DIAMETER OF THE SLEEVE SHALL BE 2 INCHES LARGER THAN THE EXTERNAL DIAMETER OF THE PIPE PASSING THROUGH IT. AFTER ALL OF THE PIPING IS INSTALLED IN THAT AREA, THE CONTRACTOR SHALL CHECK THE CLEARANCE AND CORRECT IT, IF NECESSARY, TO WITHIN 1/2 INCH. THEN THE VOID SHALL BE PACKED FULL DEPTH WITH GLASS/MINERAL FIBER AND SEALED AT BOTH ENDS, 1 INCH DEEP, WITH SEALANT BACKED BY FOAM ROD.
    c. PENETRATION OF SOUND ISOLATING CEILINGS BY SPRINKLER PIPES AND HEADS SHALL BE SLEEVED AND SEALED AS DESCRIBED HEREIN. THE SHALL BE NO RIGID CONNECTION BETWEEN CEILING AND PIPES OR HEADS.
22. ***NO SPRINKLER HEADS ARE REQUIRED IN ELEVATOR SHAFTS FOR TRACTION ELEVATORS.***
23. SPRINKLER HEADS IN ROOMS WITH SHOWERS TO BE CORROSION RESISTANT.
24. ALL TAPS OF MAINS SHALL BE OFF THE SIDE OR TOP OF PIPE. NOT BOTTOM CONNECTIONS ARE PERMITTED.
25. FIRE PROTECTION CONTRACTOR IS PERMITTED TO USE AREA REDUCTION FOR QUICK RESPONSE HEADS PER 11.2.3.2.3.1.
26. PER NCBC 2018, CONTRACTOR TO REFERENCE NFPA 13-2013, NFPA 14-2013, AND NFPA 20-2013.

FIRE PROTECTION DESIGN CRITERIA:

DESIGN DATA:

HYDRANT TEST NO. ONE FH401-13
STATIC PRESSURE: 48 PSI
RESIDUAL PRESSURE: 42 PSI
HYDRANT FLOW: 920 GPM
VOLUME AT 20 PSI: 2115 GPM

FLOW HYDRANT LOCATION: FH401-12

HYDRANT TEST CONDUCTED ON: 2/24/2025@7:35P.M. BY BFPE INTERNATIONAL. FIRE PROTECTION CONTRACTOR TO OBTAIN A NEW FLOW TEST IF CURRENT TEST IS MORE THAN 1 YEAR OLD.

STAND PIPE SYSTEM
A MANUAL WET STANDPIPE IS REQUIRED AT EACH STAIRWELL.

SPRINKLER AREA COORDINATION LEGEND

ALL ROOMS ARE DESIGNATED LIGHT HAZARD UNLESS NOTED AS SUCH:

ORDINARY HAZARD, GROUP 1

LIGHT HAZARD, RESIDENTIAL

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

FIRE PUMP SCHEDULE

TAG	DESCRIPTION	MANUFACTURER AND MODEL	FLOW (GPM)	PRESSURE (PSI)	HP	VOLTS/PHASE	RPM	NOTES
FP-1	FIRE PUMP	PENTAIR AURORA INLINE 4-383-10B	750	90	60	460/3	3550	1 2 3 4 5 6
JP-1	JOCKEY PUMP	PENTAIR AURORA PVM1-9	7.50	100	1	460/3	3500	7

NOTES:
1. FIRE PUMP CONTROLLER: PROVIDE EATON FT80 WYE DELTA CLOSED TYPE CONTROL.
2. VERTICAL INLINE PUMP SUPPORTED FROM FLOOR.
3. SUCTION AND DISCHARGE GAUGE ASSEMBLY.
4. CASING RELIEF VALVE.
5. 4" HOSE HEADER.
6. HOSE VALVE CAP AND CHAIN.
7. EATON XTJP-G03 JOCKEY PUMP CONTROLLER.
8. ALTERNATIVE MANUFACTURERS: XYLEM, HIFAB, GRUNDFOS

SPRINKLER SYSTEM DESIGN SCHEDULE

PROJECT NAME: UNCW STUDENT HOUSING

TOTAL BUILDING HEIGHT: 65' 4"

SPACE	SYSTEM TYPE	OCCUPANCY TYPE	DESIGN DENSITY (GPM/SF)	DESIGN AREA (SF)	HOSE STREAM (GPM)
SLEEPING ROOMS, DWELLING UNITS	WET	LIGHT HAZARD	0.10	1500	100
OFFICES, CORRIDORS, RESTROOMS, LOUNGES, MULTIPURPOSE.	WET	LIGHT HAZARD	0.10	1500	100
ELECTRICAL, STORAGE, MECH. ROOMS	WET	ORIDNARY HAZARD, GROUP 1	0.15	1500	250
ATTIC CATWALK	WET	ORIDNARY HAZARD, GROUP 1	0.15	2535	250

NOTES:
1. ALL SPACES NOT SHOWN AS ORDINARY HAZARD GROUP 1 ARE LIGHT HAZARD.
2. ACTUAL FLOW RATES SHALL BE BASED ON HYDRAULIC CALCULATIONS.

FIRE FLOW ANALYSIS

BUILDING AREA SF	CONSTRUCTION TYPE	REQUIRED FIRE FLOW GPM	REQUIRED FIRE FLOW DURATION HRS	AVAILABLE FIRE FLOW GPM
120,392	IIB	1750	4	2,115

NOTES:
1. REQUIRED FIRE FLOW AND DURATION CALCULATED IN ACCORDANCE WITH 2018 NORTH CAROLINA FIRE CODE APPENDIX B
2. 75% DEMAND REDUCTION TAKEN FOR FULLY SPRINKLERED BUILDING IAW PARAGRAPH B105.2 (MINIMUM OF 1,500 GPM)
3. AVAILABLE FIRE FLOW BASED UPON FLOW TEST DATA INDICATED IN "FIRE PROTECTION DESIGN CRITERIA" ON THIS SHEET

STANDPIPE SYSTEM DESIGN DATA

SYSTEM TYPE	WATER SUPPLY	DESIGN FLOW GPM	DESIGN PRESSURE PSI	MOST REMOTE HOSE OUTLET LOCATION
CLASS I MANUAL WET	FIRE DEPARTMENT APPARATUS	1000	100	STAIR C

NOTES:
1. PROVIDE OPERATIONAL STANDPIPE WITH FDC DURING CONSTRUCTION WHERE CONSTRUCTION IS ABOVE 3RD LEVEL

SPRINKLER HEAD SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	HAZARD	K-FACTOR
▷	SIDE WALL HEAD	REFER TO FINAL DRAWINGS	LIGHT HAZARD, ORDINARY HAZARD GP.1	5.6
●	STANDARD COVERAGE RECESSED SPRINKLER HEAD	FINISHED PUBLIC AREAS WITH LAY-IN CEILINGS OR HARD CEILINGS	LIGHT HAZARD, ORDINARY HAZARD GP.1	5.6
⦸E	EXTENDED COVERAGE RECESSED SPRINKLER HEAD	FINISHED PUBLIC AREAS WITH LAY-IN CEILINGS.	LIGHT HAZARD, ORDINARY HAZARD GP.1	5.6
⦸C	CONCEALED EXTENDED COVERAGE RECESSED SPRINKLER HEAD	FINISHED PUBLIC AREAS WITH HARD CEILINGS.	LIGHT HAZARD, ORDINARY HAZARD GP.1	5.6
○	STANDARD COVERAGE EXPOSED UPRIGHT SPRINKLER HEAD	EXPOSED STRUCTURAL CEILING AREAS.	LIGHT HAZARD, ORDINARY HAZARD GP.1	8.0

NOTE:
- COORDINATE SPRINKLER HEAD TEMPERATURE RATING WITH NFPA 13 - 2013 EDITION.
- EQUIPMENT MANUFACTURERS BASED ON RELIABLE, VIKING, GRINNELL OR APPROVED EQUAL.

Min. Floor or Wall Thickness In.	Nom. Pipe Tube Or Conduit Diam. In.	Max. Annular Space In.	Min. Caulk Thickness In.	F Rating Hr.
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-12	3-1/4	1	2
4-1/2	1/2-6	1-3/8	1/4(a)	2
4-1/2	1/2-12	1-1/4	1/2	3
4-1/2	1/2-20	2	1	3
4-1/2	1/2-20	2	1	3
4-1/2	1/2-12	3-1/4	1	3
4-1/2	22-30	2	2	3
5-1/2	1/2-6	1-3/8	1(b)	4

(a) Min. 2 in. thickness of mineral wool batt insulation required in annular space.

(b) Min. 1 in. thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min. 1 in. thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY - CP 25WB+ or FB 3000 WT.

*Bearing the UL Classification Mark.

LEGEND

SYMBOL	DESCRIPTION
——FP——	FIRE PROTECTION
——TS——	BUTTERFLY VALVE WITH TAMPER SWITCH
DROP RISE	PIPE DROP OR RISE
——□	CAPPED CONNECTION
——□ FS	FLOW SWITCH
——▷	VALVE IN RISER

FIRE PROTECTION SHEET LIST

SHEET NUMBER	SHEET NAME
FP001	FIRE SUPPRESSION LEGEND, SCHEDULES & NOTES
FP002	FIRE PROTECTION STANDPIPE SCHEMATIC
FP101A	FIRE PROTECTION PLAN - LEVEL 01 - AREA A
FP101B	FIRE PROTECTION PLAN - LEVEL 01 - AREA B
FP102A	FIRE PROTECTION PLAN - LEVEL 02 - AREA A
FP102B	FIRE PROTECTION PLAN - LEVEL 02 - AREA B
FP103A	FIRE PROTECTION PLAN - LEVEL 03 - AREA A
FP103B	FIRE PROTECTION PLAN - LEVEL 03 - AREA B
FP104A	FIRE PROTECTION PLAN - LEVEL 04 - AREA A
FP104B	FIRE PROTECTION PLAN - LEVEL 04 - AREA B
FP105A	FIRE PROTECTION PLAN - LEVEL 05 - AREA A
FP105B	FIRE PROTECTION PLAN - LEVEL 05 - AREA B
FP902	FIRE PROTECTION DETAILS

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RUNCW25

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UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

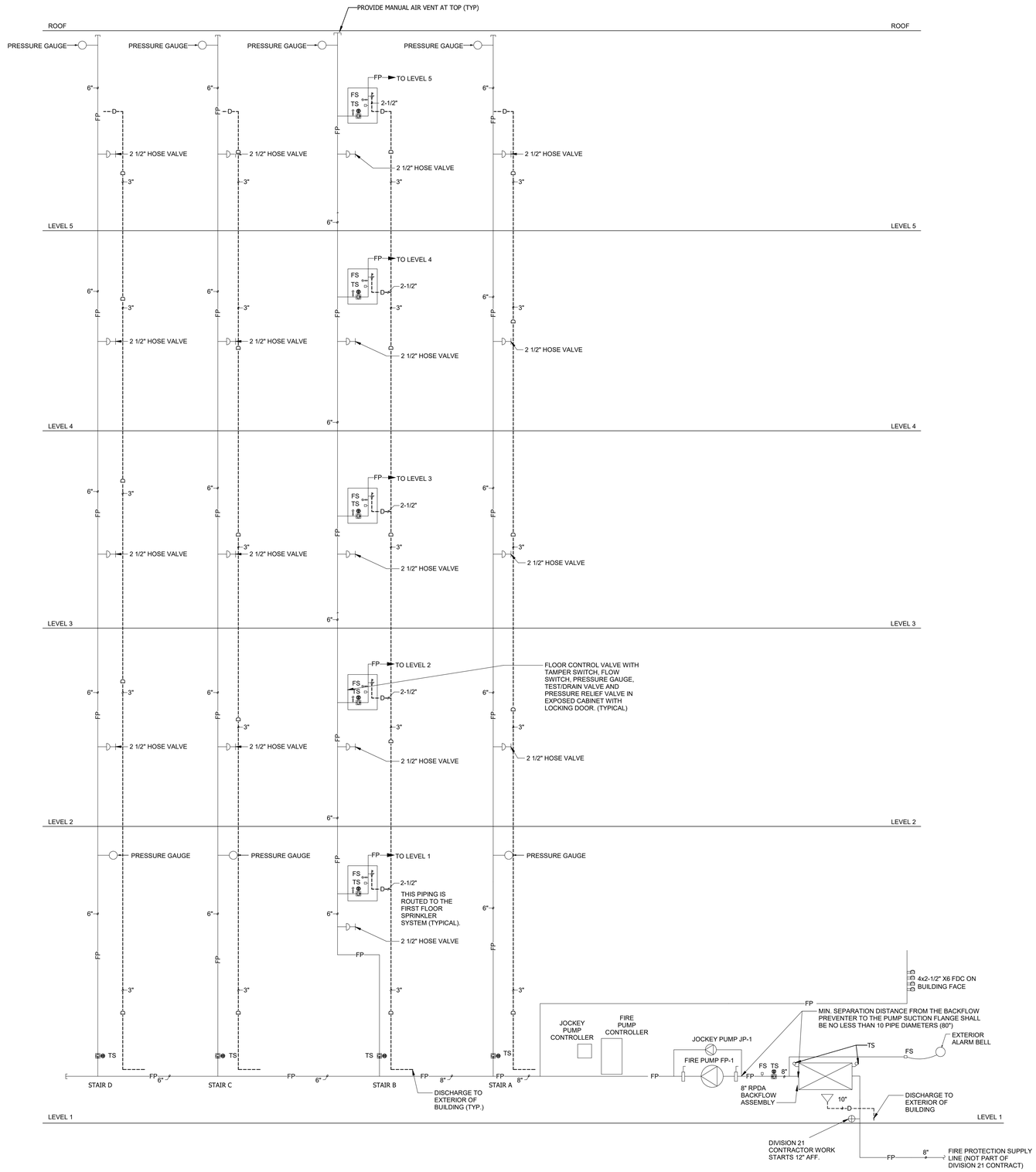
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE SUPPRESSION LEGEND, SCHEDULES & NOTES

SHEET NUMBER
FP001

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1 FIRE SPRINKLER PIPING SCHEMATIC
NOT TO SCALE

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UNC WILMINGTON, NC

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SHEET TITLE
FIRE PROTECTION STANDPIPE SCHEMATIC

SHEET NUMBER
FP002

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SHEET KEYED NOTES

FS04	6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR
FS06	3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.
FS11	SEE SHEET FP102A FOR HEAD LAYOUT IN THIS AREA.
FS13	INSTALL SPRINKLER HEAD UNDER BOTTOM LANDING OF STAIRS.

SPRINKLER AREA COORDINATION LEGEND

ALL ROOMS ARE DESIGNATED LIGHT HAZARD UNLESS NOTED AS SUCH:

ORDINARY HAZARD, GROUP 1

LIGHT HAZARD, RESIDENTIAL

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

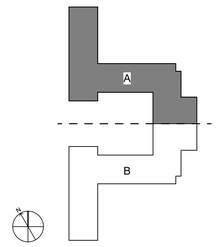
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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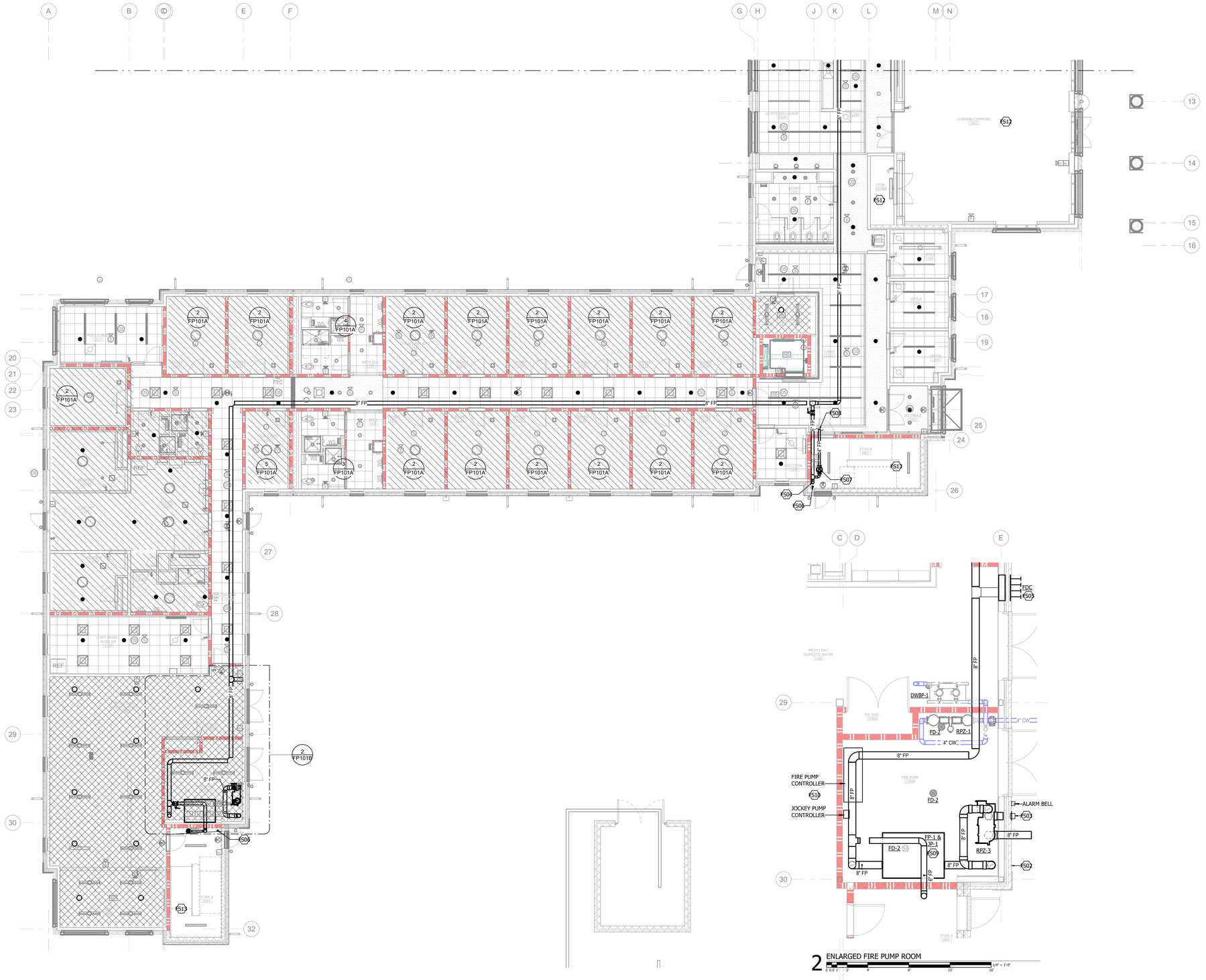
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 01 - AREA A

SHEET NUMBER
FP101A

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1 FIRE PROTECTION PLAN - LEVEL 01 - AREA B

2 ENLARGED FIRE PUMP ROOM

SHEET KEYED NOTES

FS02	3 OULET FIRE PUMP TEST HEADER. COORDINATE EXACT TYPE WITH LOCAL FIRE MARSHALL PRIOR TO SHOP DRAWING PHASE.
FS03	8" FIRE PROTECTION DRAIN PIPING FROM RPBP-2 TERMINATE OUTSIDE WITH DOWNSPOUT NOZZLE.
FS04	6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR
FS05	FIRE DEPARTMENT CONNECTION. COORDINATE EXACT TYPE WITH SCO AND LOCAL FIRE MARSHALL PRIOR TO SHOP DRAWING PHASE.
FS06	3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.
FS07	ZONE CONTROL VALVE ASSEMBLY.
FS08	FIRE PROTECTION PIPING TO SERVE FLOOR.
FS09	SKID HOUSING FIRE PUMP, JOCKEY PUMP, AND ALL ASSOCIATED COMPONENTS TO NOT EXCEED 6' 0" x 4' 6".
FS10	FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER TO BE SHIPPED SEPERATELY.
FS12	SEE SHEET FP102B FOR HEAD LAYOUT IN THIS AREA.
FS13	INSTALL SPRINKLER HEAD UNDER BOTTOM LANDING OF STAIRS.

SPRINKLER AREA COORDINATION LEGEND

ALL ROOMS ARE DESIGNATED LIGHT HAZARD UNLESS NOTED AS SUCH:

ORDINARY HAZARD, GROUP 1

LIGHT HAZARD, RESIDENTIAL

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

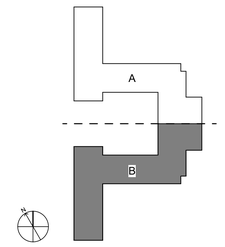
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

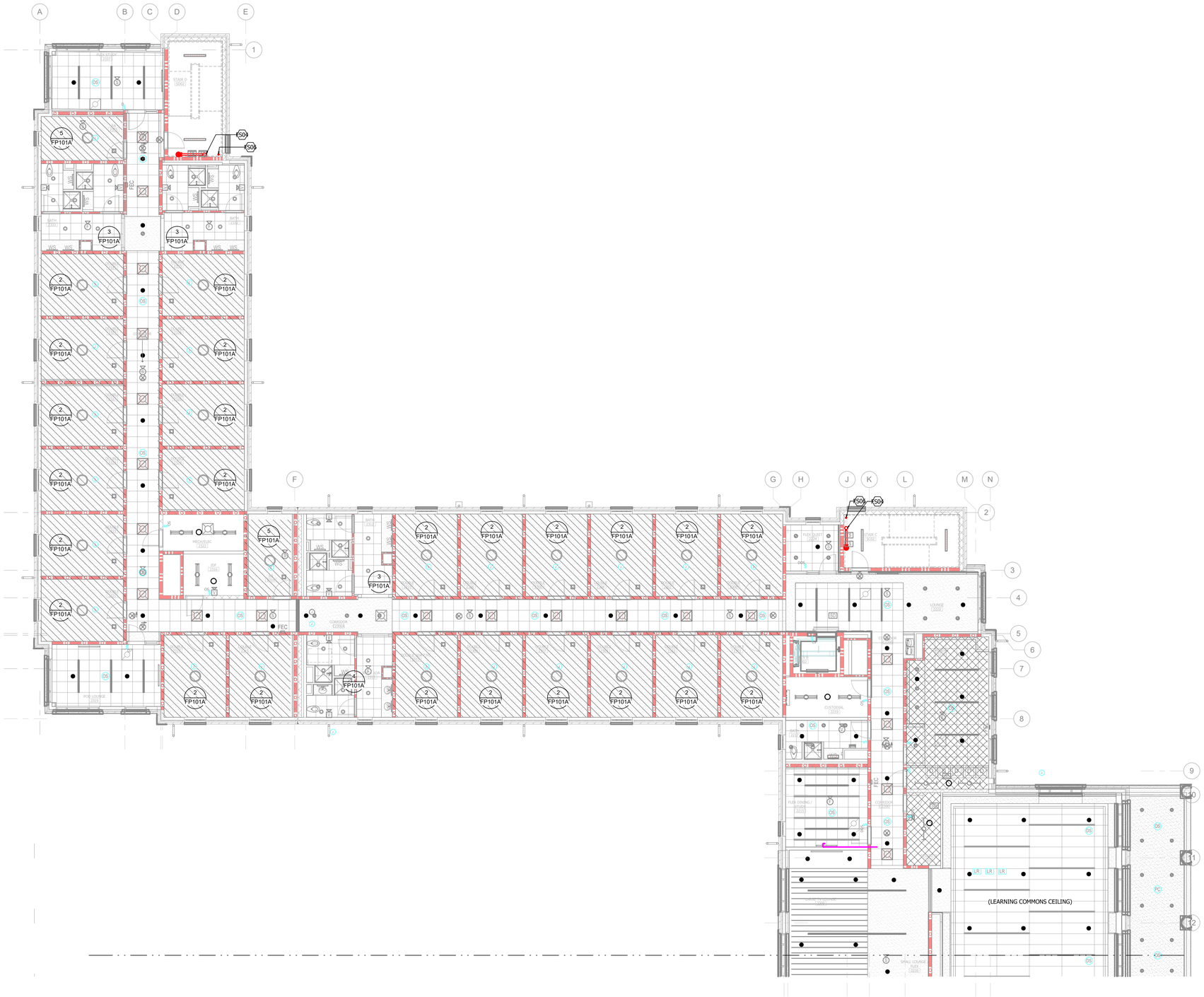
UNC WILMINGTON, NC

PROJECT NO.
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SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 01 - AREA B

SHEET NUMBER
FP101B

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1 FIRE PROTECTION PLAN - LEVEL 02 - AREA A

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

FS04 6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR

FS06 3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.

SPRINKLER AREA COORDINATION LEGEND

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LIGHT HAZARD, RESIDENTIAL

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FIRE BARRIERS

2-HR FIRE BARRIER

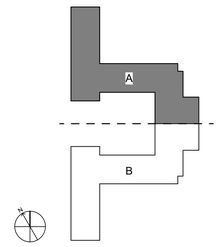
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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UNC WILMINGTON, NC

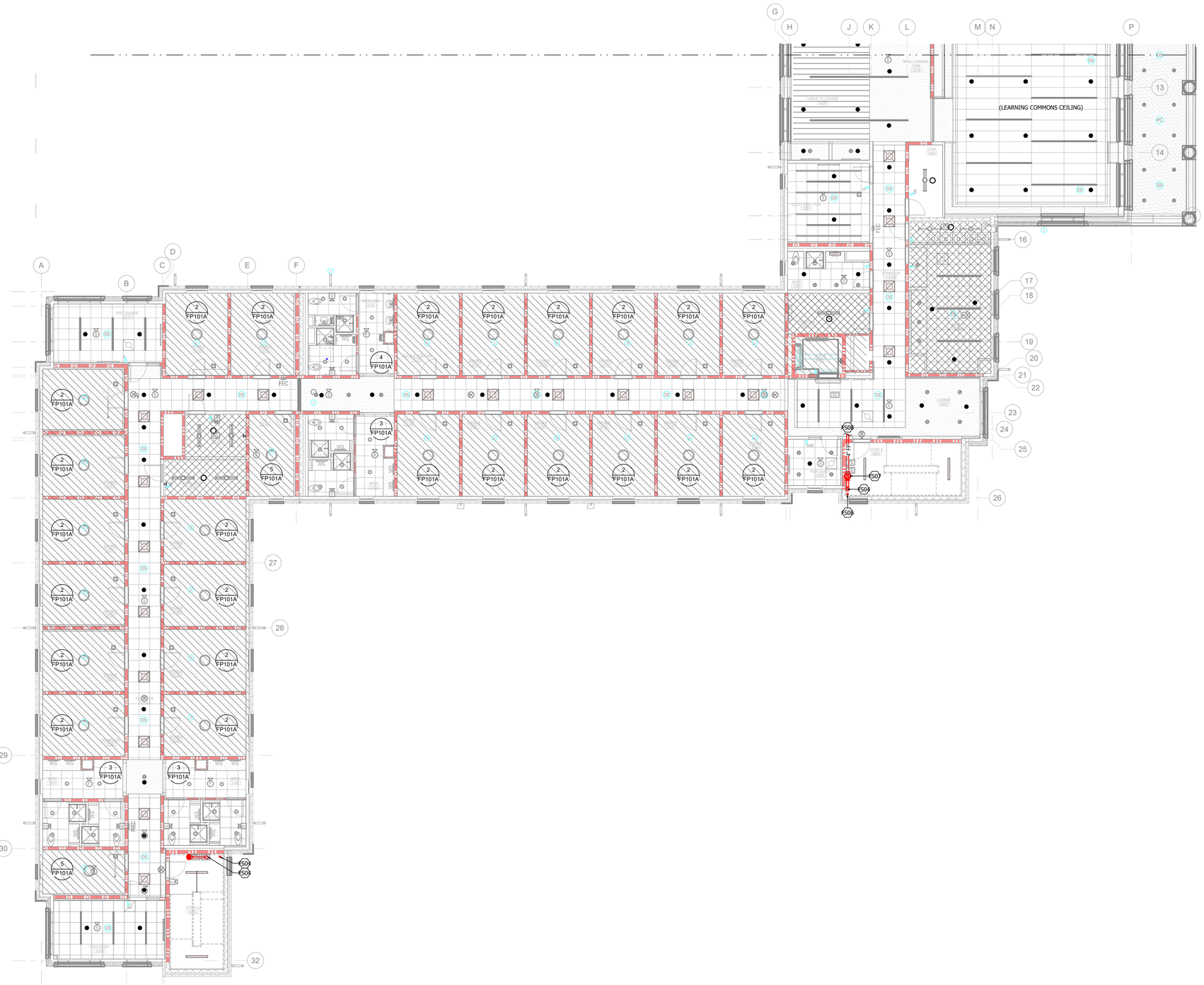
PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 02 - AREA A

SHEET NUMBER
FP102A

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1 FIRE PROTECTION PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

FS04 6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR
FS06 3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.
FS07 ZONE CONTROL VALVE ASSEMBLY.
FS08 FIRE PROTECTION PIPING TO SERVE FLOOR.

SPRINKLER AREA COORDINATION LEGEND

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ORDINARY HAZARD, GROUP 1

LIGHT HAZARD, RESIDENTIAL

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

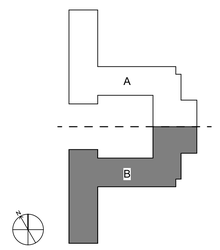
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 02 - AREA B

SHEET NUMBER
FP102B

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1 FIRE PROTECTION PLAN - LEVEL 03 - AREA A

3/8" = 1'-0"

SHEET KEYED NOTES

FS04 6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR

FS06 3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

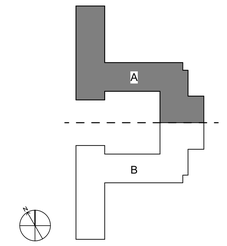
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

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RUNCW25

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DAN KNOX, PE

DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

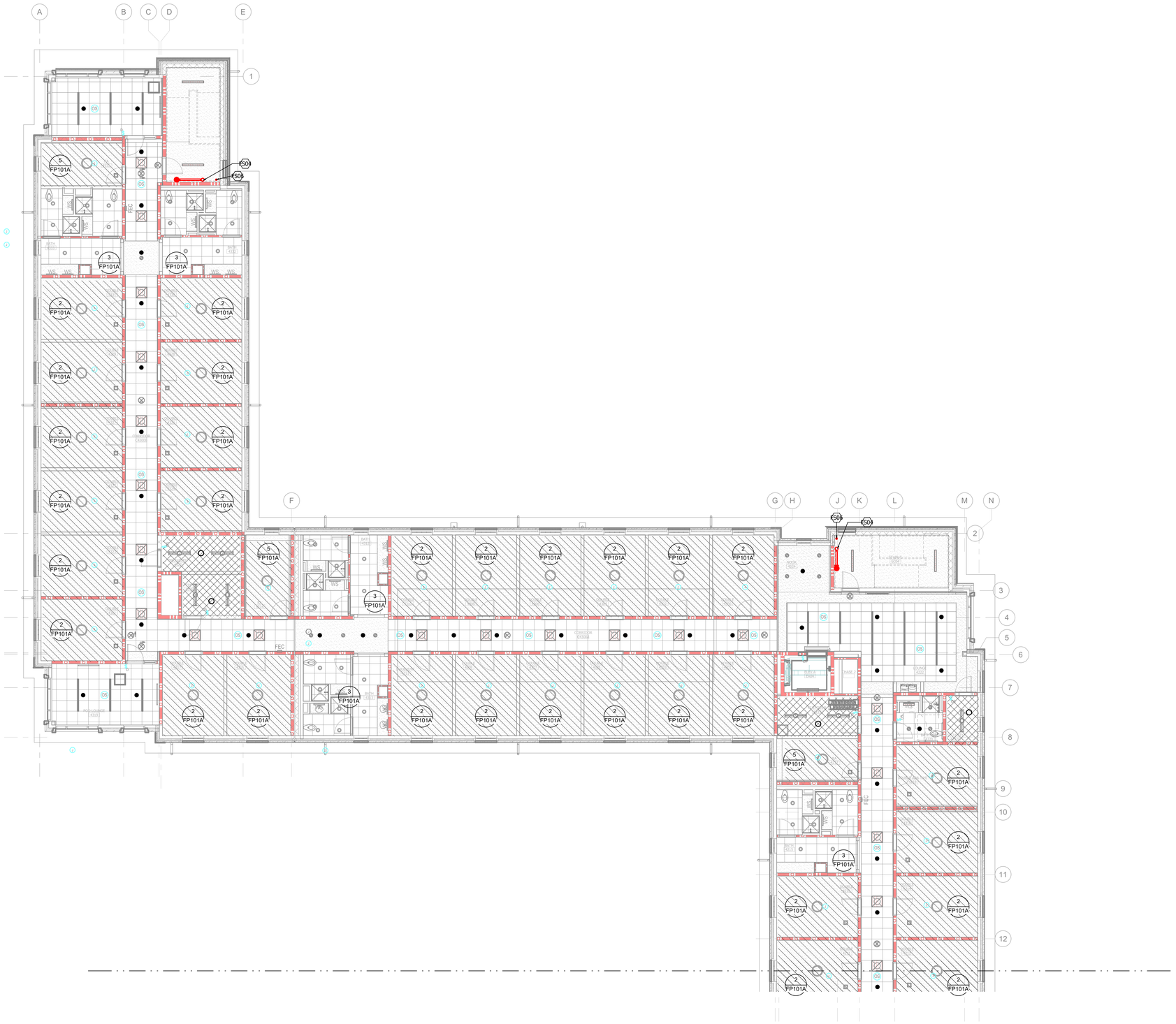
PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 03 - AREA A

SHEET NUMBER
FP103A

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FEC
FEC
FEC



1 FIRE PROTECTION PLAN - LEVEL 04 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

FS04	6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR
FS06	3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.

SPRINKLER AREA COORDINATION LEGEND

ALL ROOMS ARE DESIGNATED LIGHT HAZARD UNLESS NOTED AS SUCH:

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LIGHT HAZARD, RESIDENTIAL

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FIRE BARRIERS

2-HR FIRE BARRIER

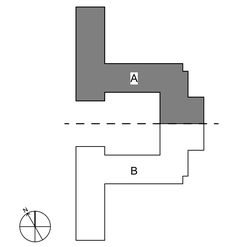
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

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KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 04 - AREA A

SHEET NUMBER
FP104A

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1 FIRE PROTECTION PLAN - LEVEL 04 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

FS04 6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR
FS06 3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.
FS07 ZONE CONTROL VALVE ASSEMBLY.
FS08 FIRE PROTECTION PIPING TO SERVE FLOOR.

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2-HR FIRE BARRIER

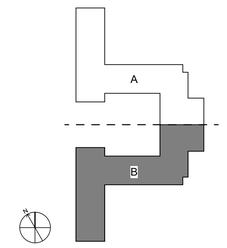
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DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
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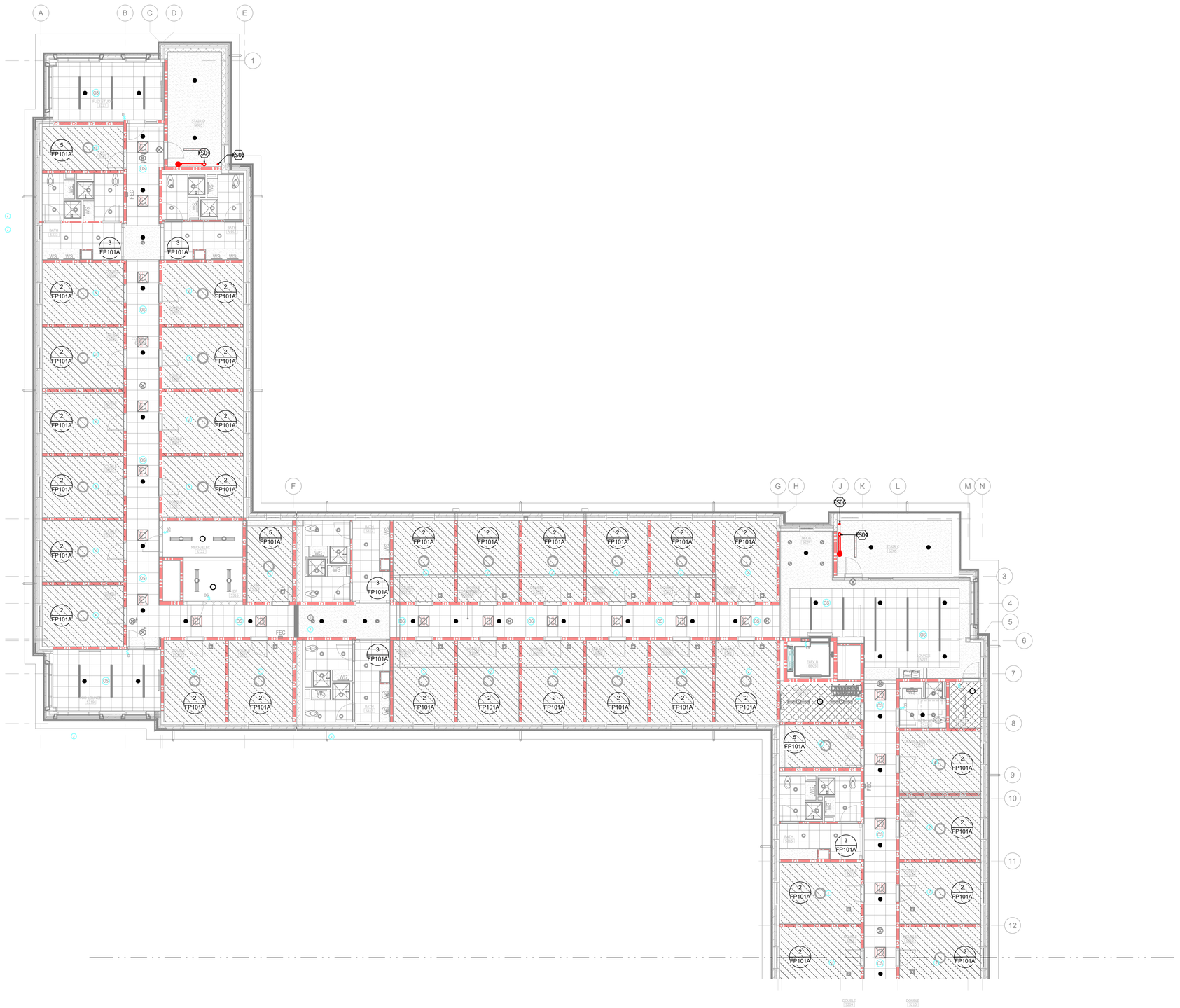
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION PLAN - LEVEL 04 - AREA B

SHEET NUMBER
FP104B

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1 FIRE PROTECTION PLAN - LEVEL 05 - AREA A

1/8" = 1'-0"

0 1' 2 4' 8' 16' 24' 32'

SHEET KEYED NOTES

FS04 6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR

FS06 3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.

SPRINKLER AREA COORDINATION LEGEND

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FIRE BARRIERS

2-HR FIRE BARRIER

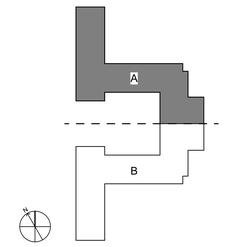
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

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KEY PLAN



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RUNCW25

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PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: REBECCA CLEWETT

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: FIRE PROTECTION PLAN - LEVEL 05 - AREA A

SHEET NUMBER: FP105A

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1 FIRE PROTECTION PLAN - LEVEL 05 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

FS04 6" STANDPIPE. PROVIDE WITH 2-1/2" FP HOSE VALVE AT 42" AF ON EVERY FLOOR
FS06 3" FP DRAIN RISER. TERMINATE 18" AFG WITH 45 DEG ELBOW DOWN.
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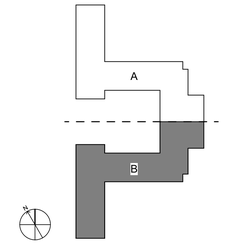
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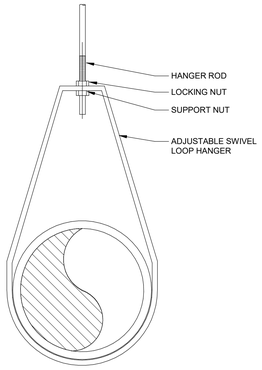
UNC WILMINGTON, NC

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SHEET TITLE
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SHEET NUMBER
FP105B

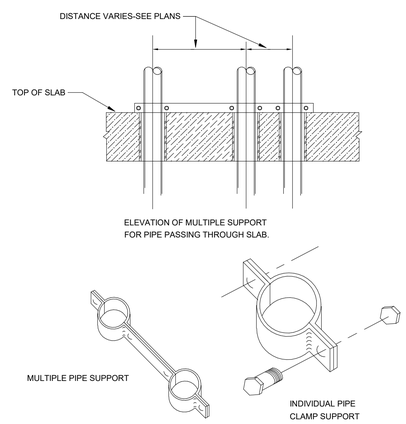
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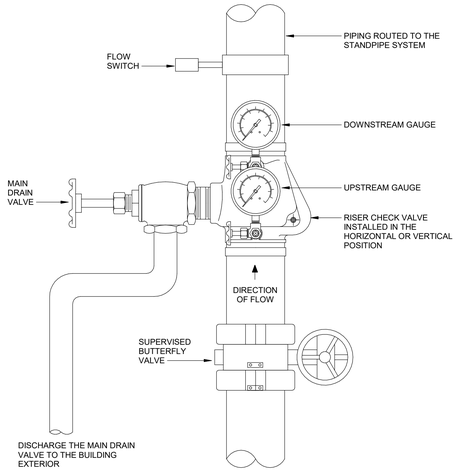
HANGER ROD SPACING								
PIPE SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
MAX. ALLOWABLE SPACING	8 FT		10 FT		12 FT			

NOTE:
FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.

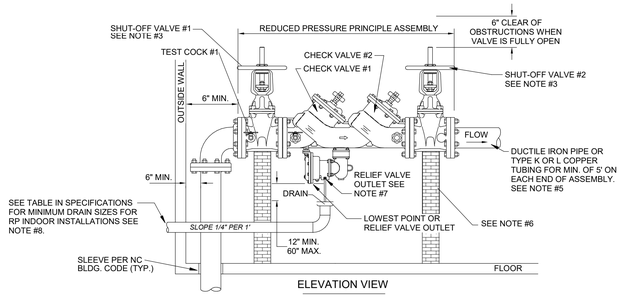
1 ADJUSTABLE SWIVEL LOOP HANGER DETAIL
NOT TO SCALE



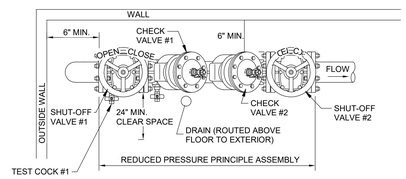
2 VERTICAL PIPE SUPPORT DETAIL
NOT TO SCALE



3 WET SPRINKLER ALARM VALVE DETAIL
NOT TO SCALE



ELEVATION VIEW



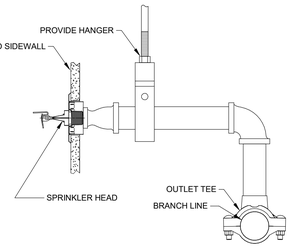
PLAN VIEW

NOTES:

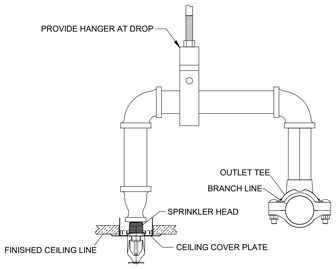
1. BACKFLOW PREVENTION ASSEMBLIES (BPA's) SHALL CONFORM TO SPECIFICATIONS. SHUT-OFF VALVES ARE SPECIFIC TO EACH APPROVED BPA AND NO SUBSTITUTIONS OF SHUT-OFF VALVES ARE PERMITTED.
2. FIRE LINE INSTALLATIONS SHALL HAVE OUTSIDE STEM AND YOKE (OS&Y) HANDWHEEL OPERATORS OR BUTTERFLY VALVES, AND LISTED ON APPROVED LIST AS FIRE APPROVED. IF SERVING FIRE SPRINKLERS, TAMPER SWITCHES ARE REQUIRED.
3. ASSEMBLIES SHALL BE INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION.
4. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN SPECIFICATIONS.
5. SUPPORT FOR ASSEMBLY SHALL BE DESIGNED BY OWNER, 8" - 12" SHALL BE SUPPORTED AT EACH VALVE AND SHALL NOT BLOCK RELIEF VALVE ON DRAIN PORT.
6. AN AIR GAP DRAIN IS RECOMMENDED TO REDUCE SPLASHING OF MINOR DISCHARGES FROM THE RELIEF VALVE DRAIN PORT.
7. INDOOR INSTALLATION OF RP'S SHOULD PROVIDE FOR DRAINAGE CAPABLE OF HANDLING IN EXCESS OF THE MAXIMUM DISCHARGE RATE EXPECTED BY THE BACKFLOW ASSEMBLY MANUFACTURER.
8. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER - USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS SITE WATER - REQUIRED BACKFLOW PREVENTER.
9. EACH BPA IS REQUIRED TO BE TESTED BY THE LOCAL UTILITY - APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. TEST RESULTS SHALL BE SUBMITTED TO THE LOCAL UTILITY WITHIN 30 DAYS AND TESTED ANNUALLY THEREAFTER SUBMITTING RESULTS TO SITE WATER.

***BACKFLOW PREVENTOR TO BE ZURN 475STDAV RPDA ASSEMBLY.

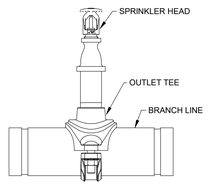
4 FIRE BACK FLOW PREVENTER DIAGRAM
NOT TO SCALE



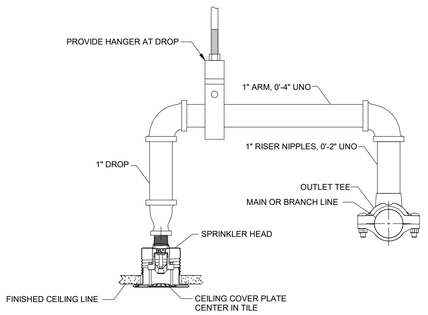
TYPICAL INSTALLATION
STANDARD SPRAY HORIZONTAL SIDEWALL AND RECESSED HORIZONTAL SIDEWALL STANDARD AND QUICK RESPONSE



TYPICAL INSTALLATION
STANDARD SPRAY PENDENT AND RECESSED PENDENT STANDARD AND QUICK RESPONSE



TYPICAL INSTALLATION
STANDARD SPRAY UPRIGHT STANDARD AND QUICK RESPONSE



TYPICAL INSTALLATION
ADJUSTABLE CONCEALED STANDARD SPRAY PENDENT STANDARD AND QUICK RESPONSE

NOTES:

1. BRANCH PIPING NOT ALLOWED TO TAP OFF BOTTOM OF MAIN.
2. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE PIPE SIZING, LAYOUT AND INSTALLATION COORDINATION. THE ABOVE INSTALLATION DETAIL IS FOR COORDINATION.

5 SPRINKLER HEAD DETAILS
NOT TO SCALE

LITTLE
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CMTA
A LEGENCE Company
CMTA License No. C-4556

NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

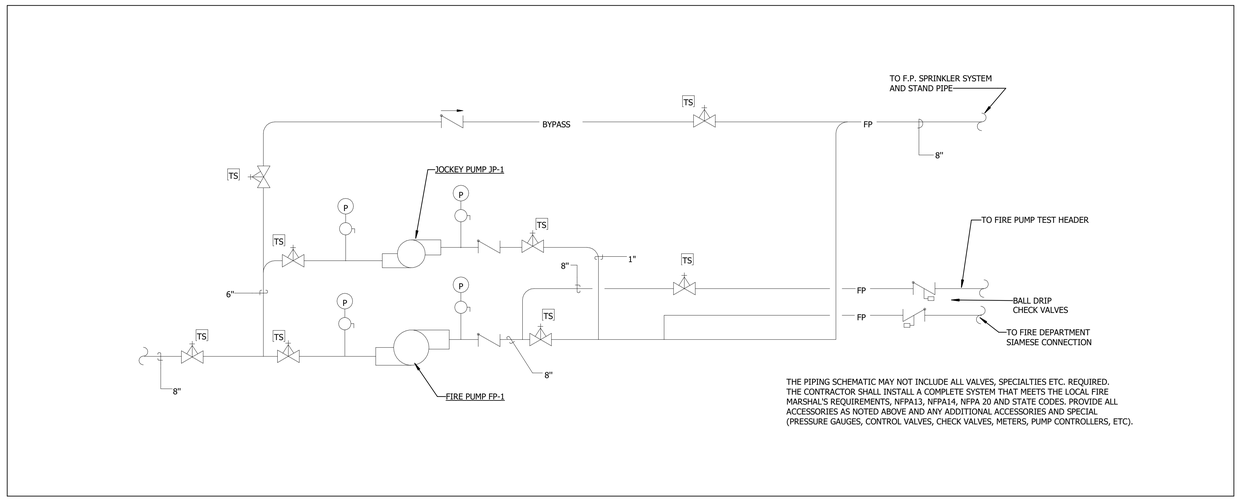
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

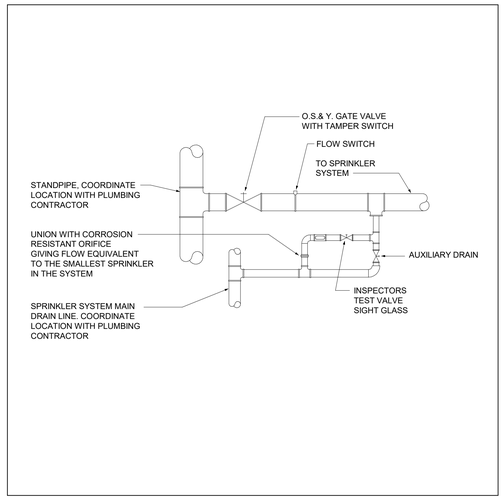
SHEET TITLE
FIRE PROTECTION DETAILS

SHEET NUMBER
FP901

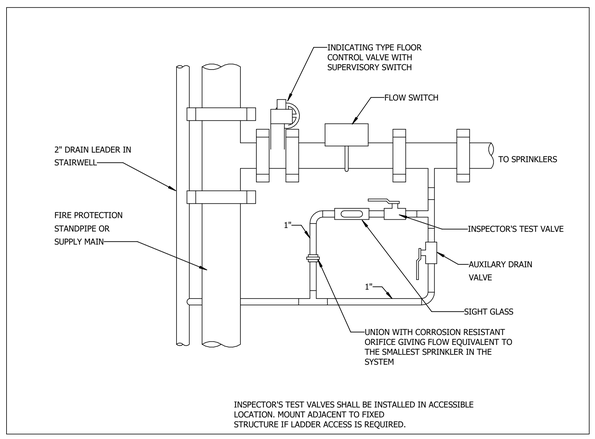
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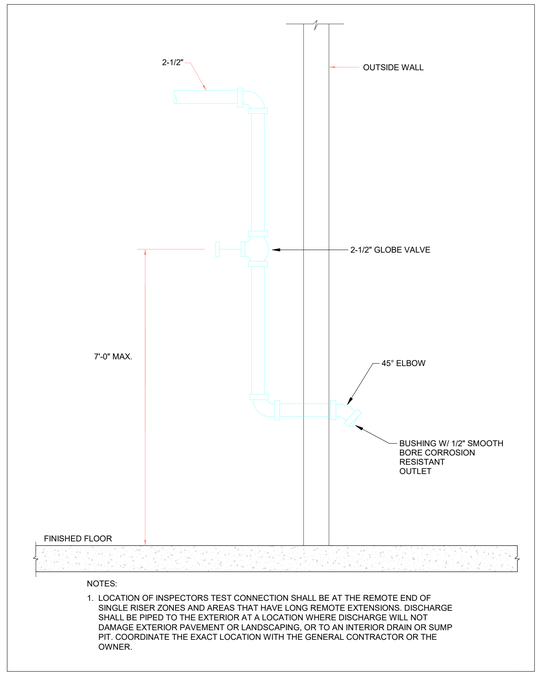
1 FIRE PUMP PIPING DETAIL
NOT TO SCALE



2 SPRINKLER INSPECTOR'S TEST DETAIL
NOT TO SCALE



3 ZONE CONTROL VALVE ASSEMBLY
NOT TO SCALE



4 INSPECTOR TEST CONNECTION DETAIL
NOT TO SCALE

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DESIGN TEAM
REBECCA CLEWETT

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE PROTECTION DETAILS

SHEET NUMBER
FP902

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GENERAL NOTES - MECHANICAL

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF VIRGINIA, ETC.)
H. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
I. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED **2 WEEKS** IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
J. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
K. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
L. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
M. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
N. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
O. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
P. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
Q. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY, ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL, ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
R. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
S. ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE-RESISTANT COVERING.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET **OR** FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET **OR** FOOT
SQ IN	SQUARE INCH **OR** INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FEQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

GENERAL SYMBOLS

#	TAGGED NOTE DESIGNATOR
1	REVISION TRIANGLE
ROOM NAME (SEE 2)	ROOM TAG
TAG INSTANCE XXXX	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
TAG XXX AIRFLOW # ###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##x##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
TA	TRANSFER AIR DUCT
CAE	COMBUSTION AIR EXHAUST DUCT
CAI	COMBUSTION AIR INTAKE DUCT
SA	SA AIR DUCT TURNING UP
SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
XXX(E)	EXISTING DUCT - (XXX) DENOTES SYSTEM
XXX(D)	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
XXX(A)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
T	THERMOSTAT
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR
TC	TEMPERATURE & CARBON DIOXIDE SENSOR
VERT. HORIZ.	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	MOTORIZED DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER
VERT. HORIZ.	COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
BFW	BOILER FEEDWATER
CAI/E	COMBUSTION AIR INTAKE/EXHAUST
CBS/R	CHILLED BEAM SUPPLY/RETURN
GC	CONDENSATE GRAVITY RETURN
CHWS/R	CHILLED WATER SUPPLY/RETURN
CST	CLEAN STEAM PIPING
CWS/R	CONDENSER WATER SUPPLY/RETURN
DTS/R	DUAL TEMP. WATER SUPPLY/RETURN
GS/R	GEOTHERMAL WATER SUPPLY/RETURN
HPC	HIGH PRESSURE STEAM CONDENSATE
HPS(#)	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
HPS/R	HEAT PUMP WATER SUPPLY/RETURN
HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
HWS/R	HEATING WATER SUPPLY/RETURN
LPC	LOW PRESSURE STEAM CONDENSATE
LPS(#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
MPC	MEDIUM PRESSURE STEAM RETURN
MPS(#)	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
SPD	STEAM CONDENSATE PUMPED DISCHARGE
SVT	STEAM VENT PIPING
XXX(D)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
XXX(E)	EXISTING PIPING - (XXX) DENOTES SYSTEM
XXX(A)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWTICH
	TAMPER SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

ADD ALTERNATES SCHEDULE

ADD ALT	DESCRIPTION
ALT 19	INCLUDE COOLING TOWER #2 AND ALL ASSOCIATED PIPING, CONTROLS, HEAT TRACE, ETC.
ALT 20	INCLUDE FIELD INSTALLED CONTROLLERS
ALT 21	INSULATE OUTSIDE AIR DUCT FLOORS 1-5

Sheet List - Mechanical

SHEET #	SHEET NAME
M001	MECHANICAL LEGEND
M012	HVAC SITE PLAN - NEW WORK
M101A	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA A
M101B	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA B
M102A	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA A
M102B	MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA B
M103A	MECHANICAL AIR DISTRIBUTION PLAN - LEVELS 03-05 - AREA A
M103B	MECHANICAL AIR DISTRIBUTION PLAN - LEVELS 03-05 - AREA B
M106A	MECHANICAL AIR DISTRIBUTION PLAN - ROOF- AREA A
M106B	MECHANICAL AIR DISTRIBUTION PLAN - ROOF- AREA B
M201A	MECHANICAL HYDRONICS PLAN - LEVEL 01 - AREA A
M201B	MECHANICAL HYDRONICS PLAN - LEVEL 01 - AREA B
M202A	MECHANICAL HYDRONICS PLAN - LEVEL 02 - AREA A
M202B	MECHANICAL HYDRONICS PLAN - LEVEL 02 - AREA B
M203A	MECHANICAL HYDRONICS PLAN - LEVELS 03-04 - AREA A
M203B	MECHANICAL HYDRONICS PLAN - LEVELS 03-04 - AREA B
M205A	MECHANICAL HYDRONICS PLAN - LEVEL 05 - AREA A
M205B	MECHANICAL HYDRONICS PLAN - LEVEL 05 - AREA B
M206A	MECHANICAL HYDRONICS PLAN - ROOF- AREA A
M206B	MECHANICAL HYDRONICS PLAN - ROOF- AREA B
M301	SCHEDULES
M302	SCHEDULES
M303	SCHEDULES
M401	MECHANICAL CALCULATIONS
M402	MECHANICAL CALCULATIONS
M501	MECHANICAL SYSTEM SECTION VIEWS
M502	MECHANICAL SYSTEM SECTION VIEWS
M601	ENLARGED PLANS
M701	HYDRONIC PIPING SCHEMATIC DIAGRAM
M801	CONTROLS
M802	CONTROLS
M803	CONTROLS
M901	MECHANICAL DETAILS
M902	MECHANICAL DETAILS
M903	MECHANICAL DETAILS

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

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01.15.2026

REVISIONS

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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
HOUSING VILLAGE PHASE 3

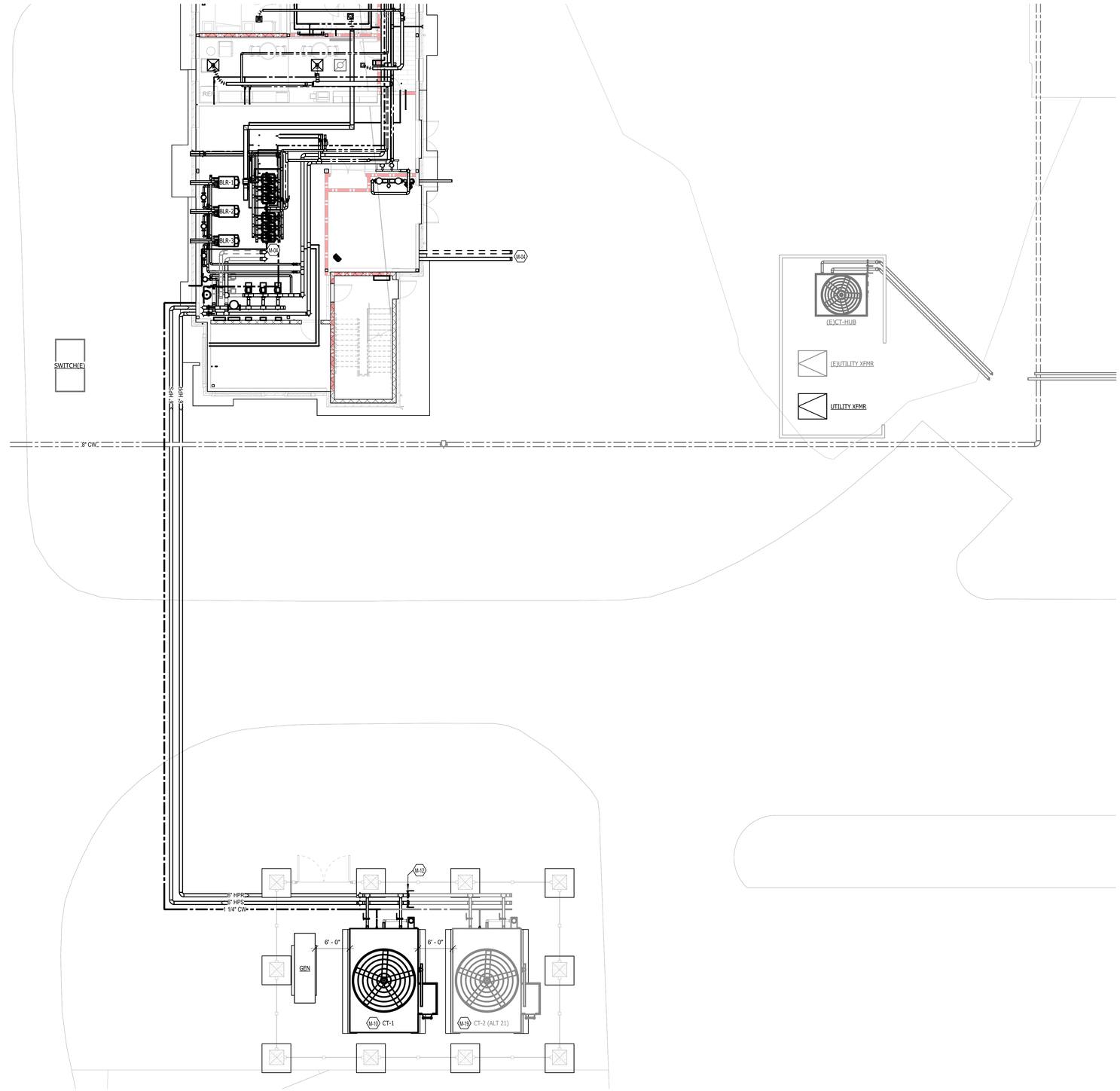
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL LEGEND

SHEET NUMBER
M001

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1 MECHANICAL SITE PLAN

3/8" = 1'-0"

SHEET KEYED NOTES

M-04 INSTALL UNDERGROUND PIPING FROM MECHANICAL ROOM TO BELOW GRADE BLIND FLANGES FOR FUTURE GEOTHERMAL SYSTEM. CAP AND SEAL PIPING FROM BOTH ENDS BEFORE BACKFILLING.

M-10 HARDWIRED CONTROL WIRING TO THE MECHANICAL YARD TO BE PROVIDED IN A DEDICATED, BELOW GRADE CONDUIT. DO NOT RUN LOW VOLTAGE WIRING WITHIN THE SAME CONDUIT AS POWER WIRING. PROVIDE AN ADDITIONAL EMPTY CONDUIT WITH PULL STRING FOR FUTURE COOLING TOWER WORK.

M-12 INCLUDE BUTTERFLY VALVES AND BLIND FLANGES FOR FUTURE COOLING TOWER (LISTED AS ALTERNATE 19)

M-19 ADD ALTERNATE 19 - PROVIDE PRICING TO INCLUDE 2 COOLING TOWERS, ASSOCIATED PIPING, CONTROLS, HEAT TRACE, ETC.

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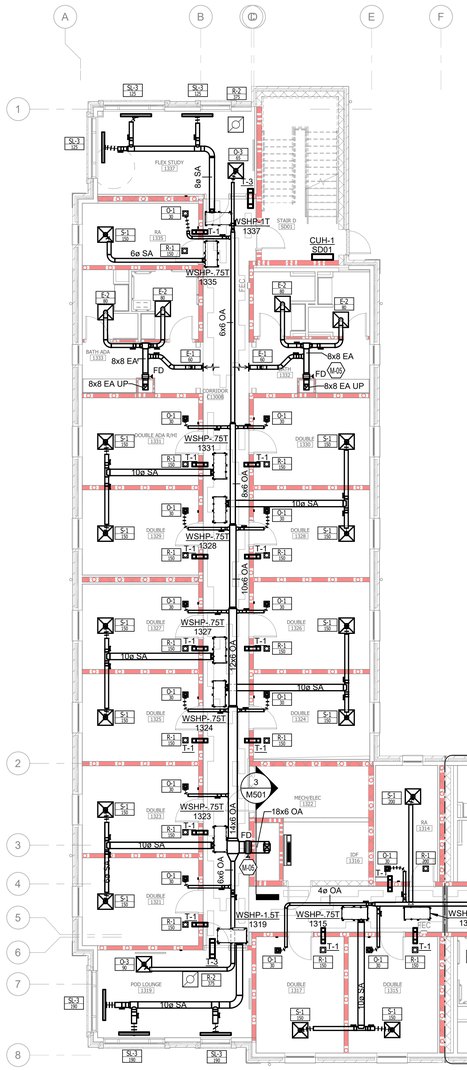
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PROJECT NO.
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SHEET TITLE
HVAC SITE PLAN - NEW WORK

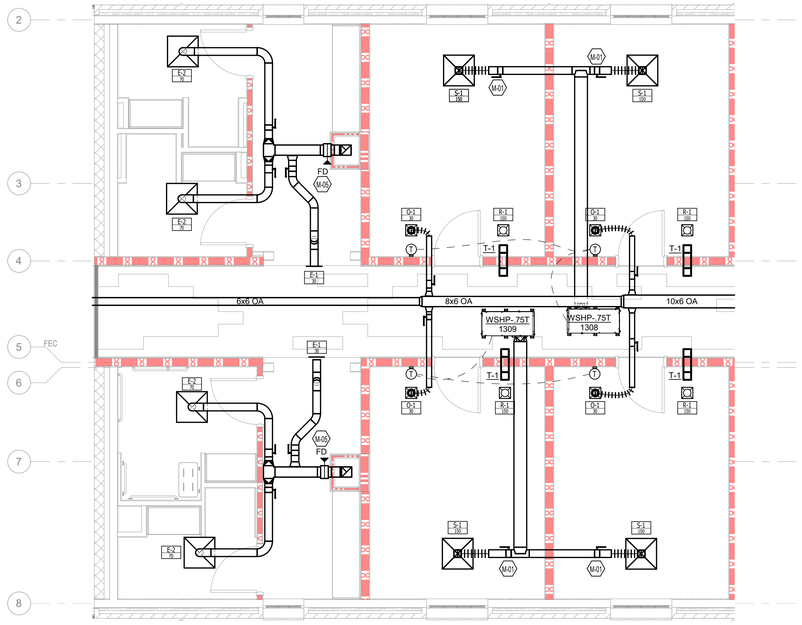
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1 MECHANICAL AIR DISTRIBUTION PLAN - AREA A

1/8" = 1'-0"



2 MECHANICAL AIR DISTRIBUTION PLAN - TYPICAL BEDROOM AND RESTROOM CONFIGURATION

1/4" = 1'-0"

SHEET KEYED NOTES

M-01 PROVIDE CABLE OPERATED BALANCING DAMPER WHERE LOCATED ABOVE HARD CEILING, EXTEND CABLE TO DIFFUSER FACE. REFER TO DETAILS FOR MORE INFORMATION.

M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

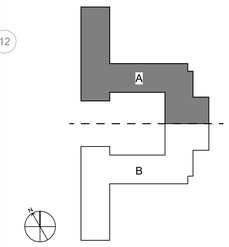
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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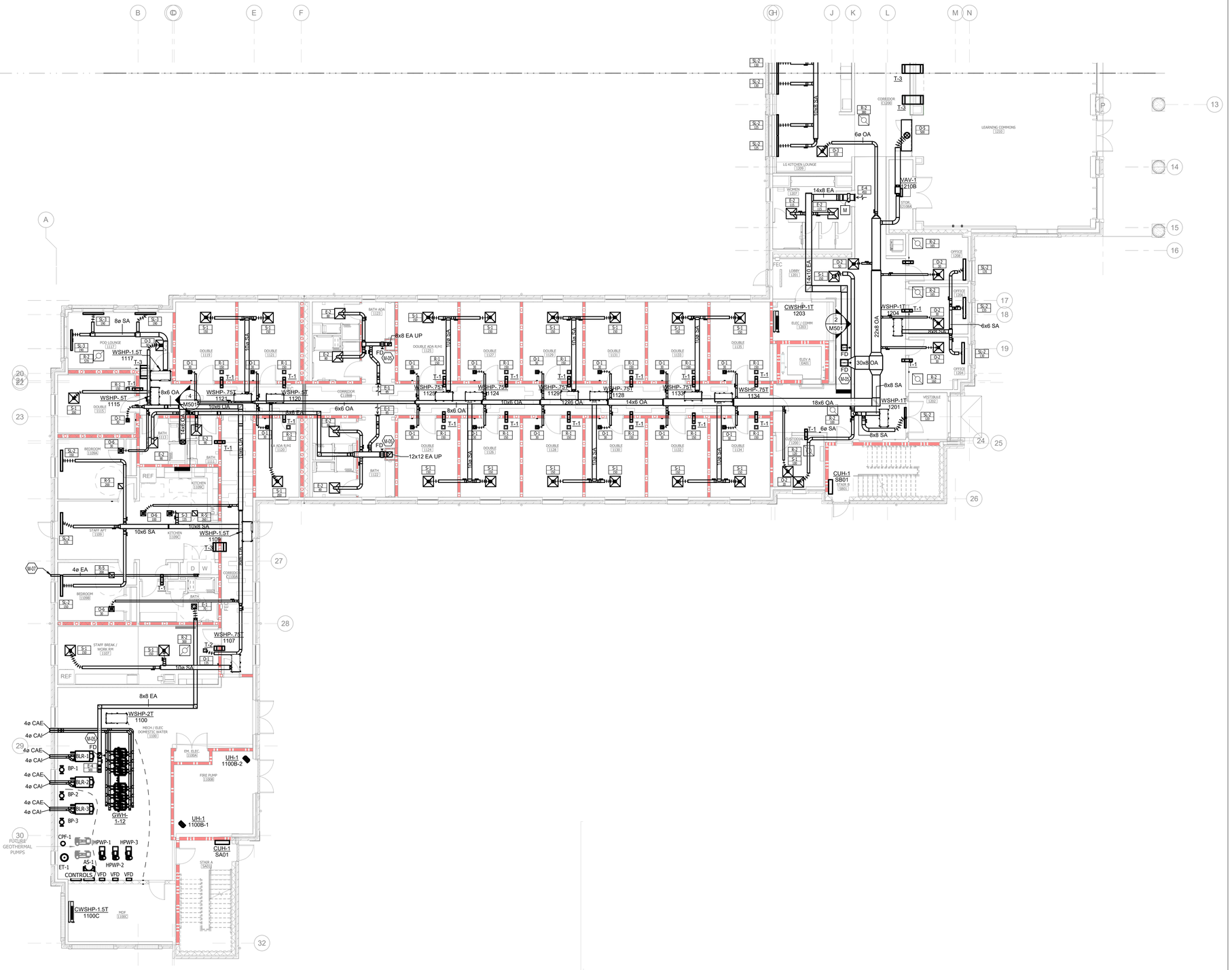
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA A

SHEET NUMBER
M101A

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1 MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).

M-07 4" DRYER DUCT TERMINATED AT WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. WALL CAP SHALL BE FAMCO MODEL TVDWV, BLACK GALVANIZED STEEL WITH DAMPER. DRYER EXHAUST LOUVER TO BE PAINTED THE SAME COLOR AS BRICK. CONTRACTOR TO COORDINATE WITH ARCHITECT ON PAINT COLOR SELECTION.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

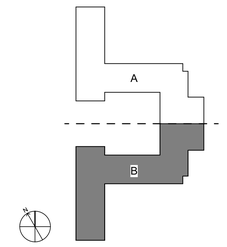
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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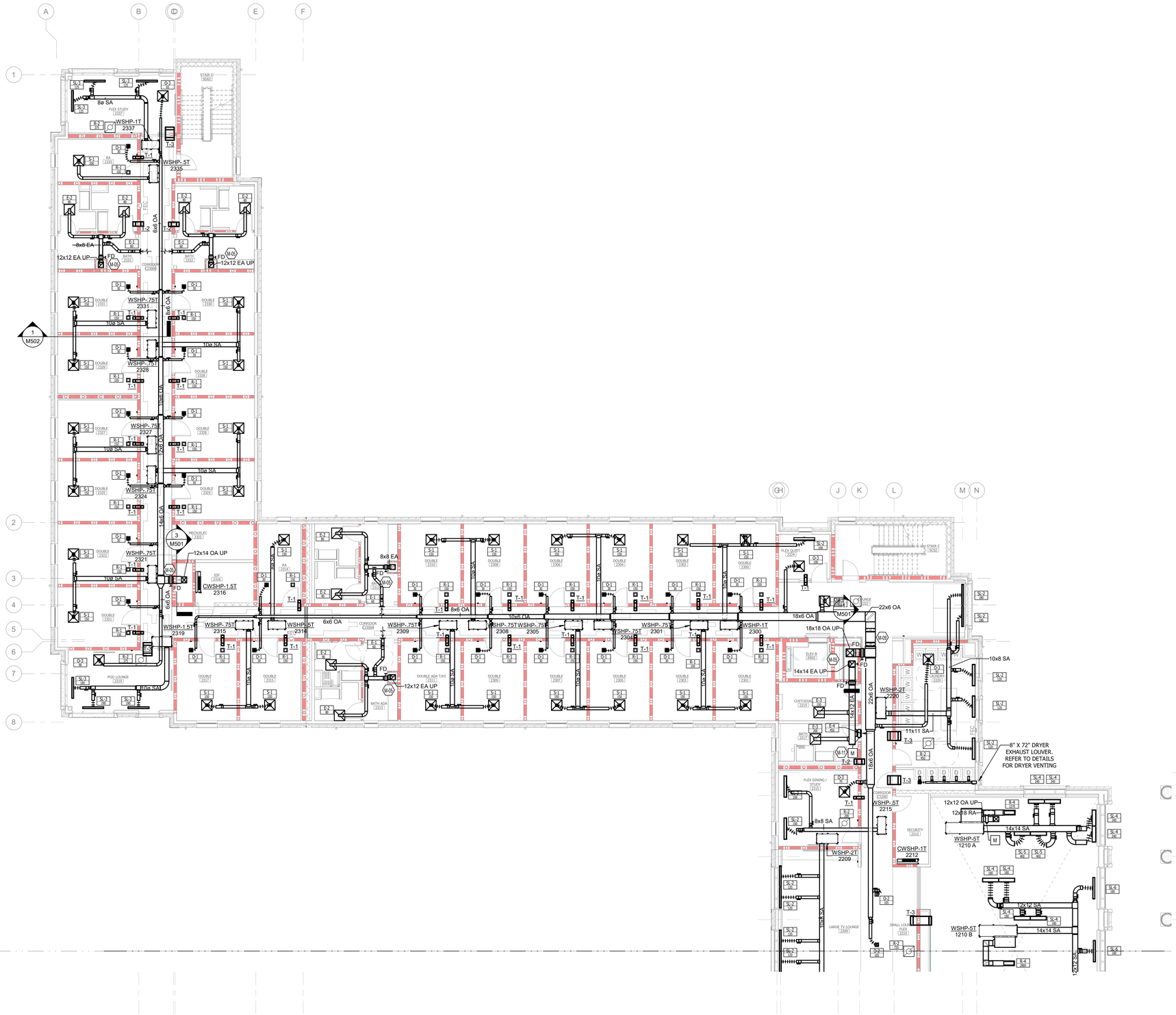
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 01 - AREA B

SHEET NUMBER
M101B

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1 MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

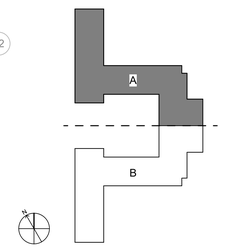
M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).
M-09 ROUTE DUCTWORK AROUND STRUCTURAL BEAMS
M-11 PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH OA DAMPER AT LEARNING COMMONS OUTSIDE AIR INTAKE. REFER TO CONTROLS DRAWINGS FOR SEQUENCE OF OPERATIONS.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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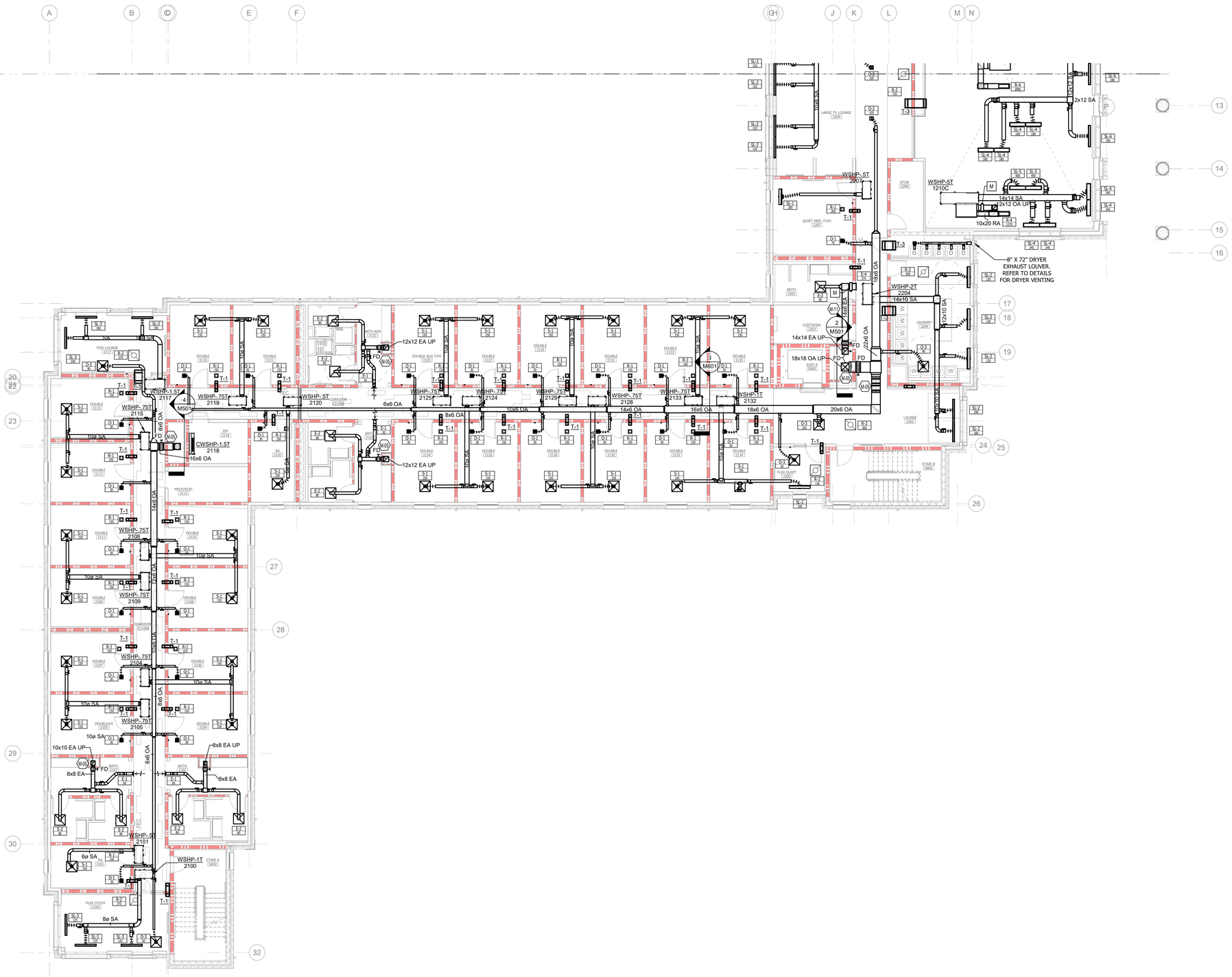
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA A

SHEET NUMBER
M102A

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1 MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).
M-09 ROUTE DUCTWORK AROUND STRUCTURAL BEAMS
M-11 PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH OA DAMPER AT LEARNING COMMONS OUTSIDE AIR INTAKE. REFER TO CONTROLS DRAWINGS FOR SEQUENCE OF OPERATIONS.

RATED WALLS AND PARTITIONS

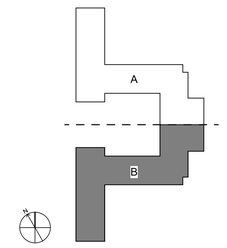
FIRE BARRIERS

2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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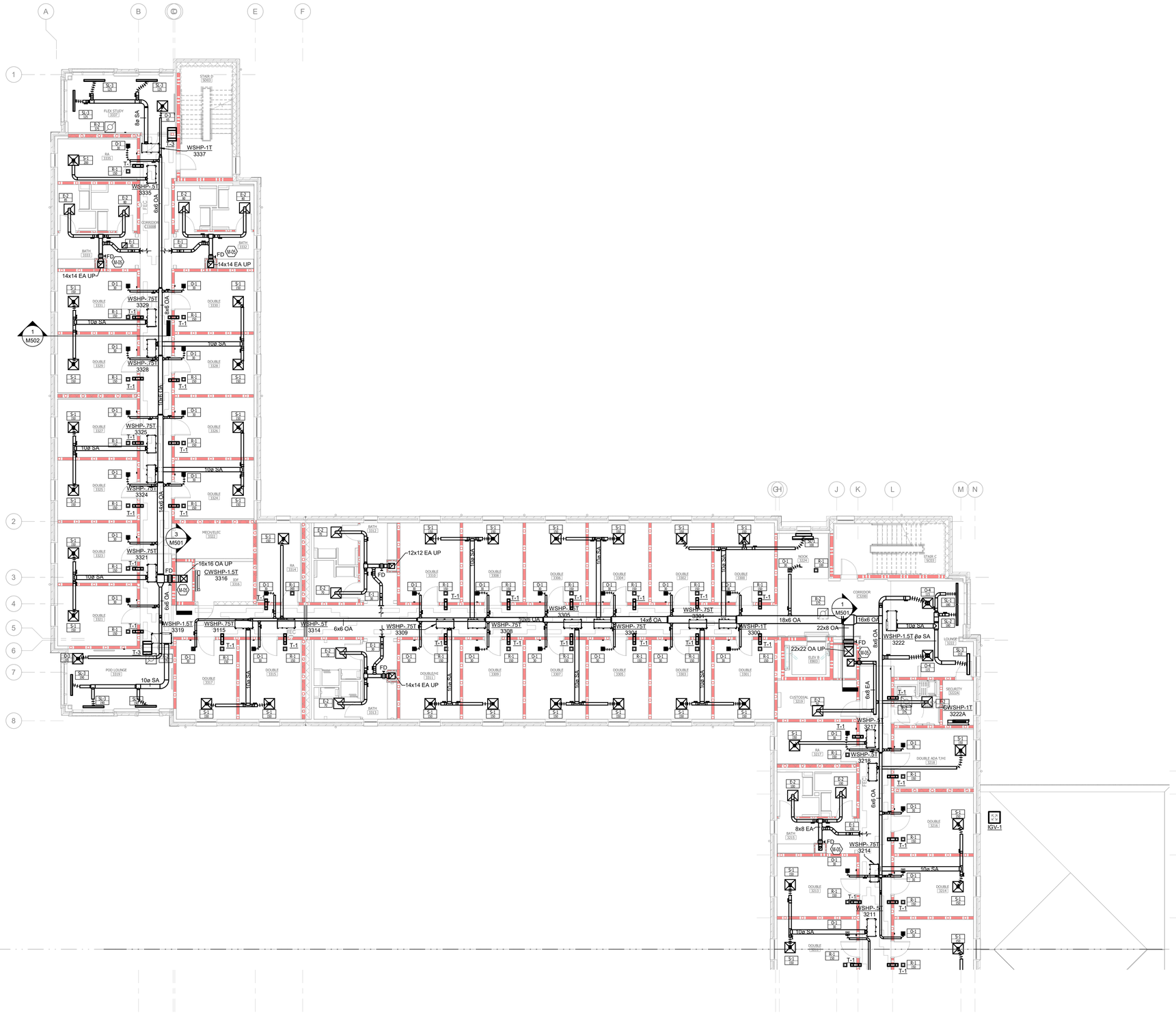
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 02 - AREA B

SHEET NUMBER
M102B

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1 MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 03 - AREA A
1/8" = 1'-0"

SHEET KEYED NOTES

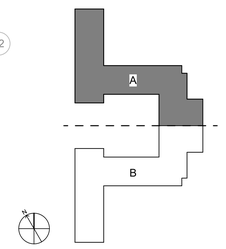
M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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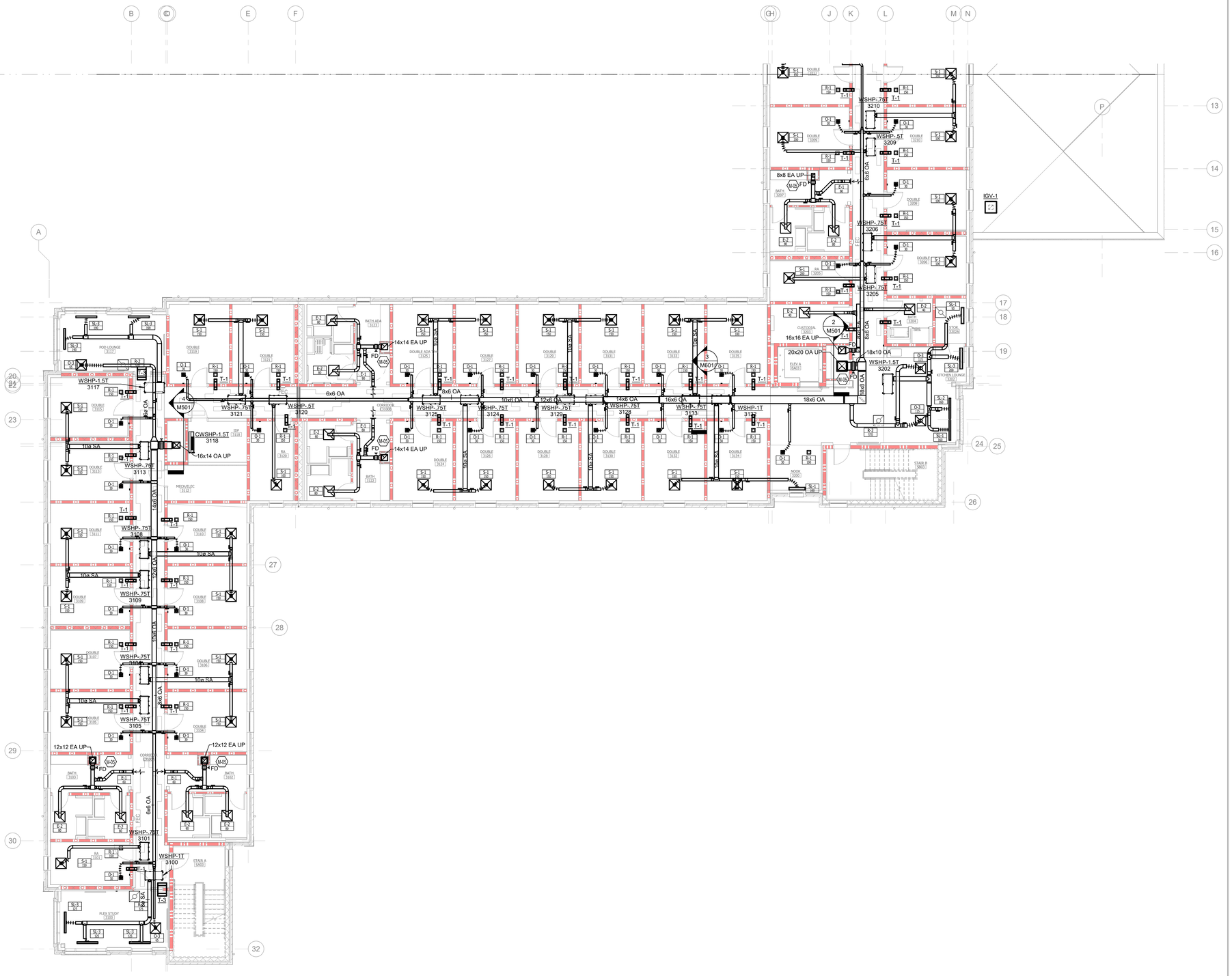
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - LEVELS 03-05 - AREA A

SHEET NUMBER
M103A

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1 MECHANICAL AIR DISTRIBUTION PLAN - LEVEL 03 - AREA B

3/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

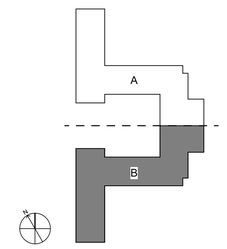
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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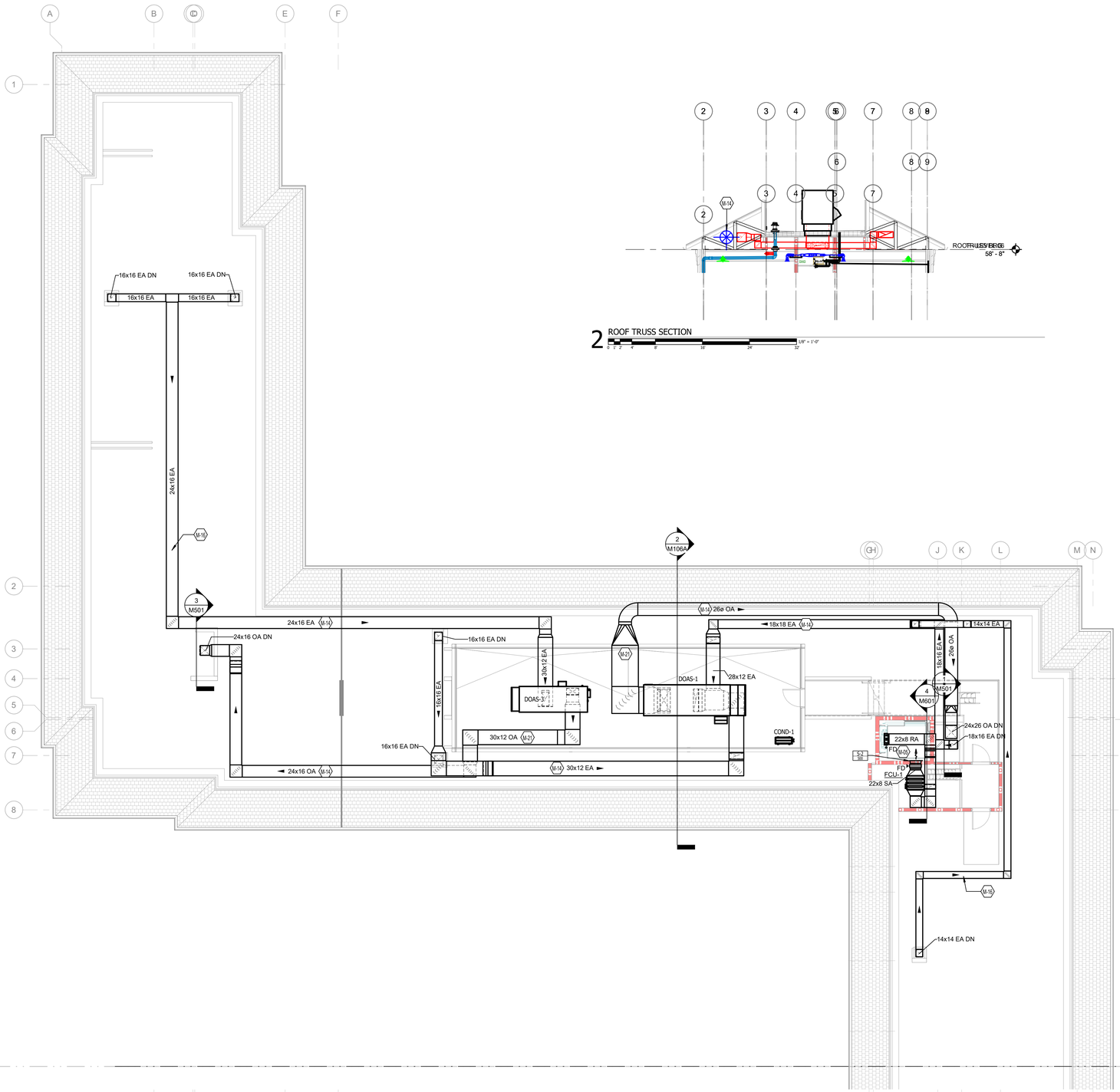
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - LEVELS 03-05 - AREA B

SHEET NUMBER
M103B

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1 MECHANICAL AIR DISTRIBUTION PLAN - ROOF - AREA A

1/8" = 1'-0"

2 ROOF TRUSS SECTION

1/8" = 1'-0"

SHEET KEYED NOTES

M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).

M-14 DUCTWORK TO BE ROUTED WITHIN ROOF TRUSSES. COORDINATE WITH STRUCTURAL CONTRACTOR FOR FINAL ROUTING.

M-16 ALL DUCTWORK SHOWN OUTSIDE OF THE ROOF WELL IS ROUTED THROUGH THE ATTIC SPACE. (TYP)

M-21 ADD ALTERNATE 21 - INSULATE OUTSIDE AIR DUCTWORK IN LEVELS 1-5. ALL ATTIC AND EXTERIOR DUCTWORK MUST BE INSULATED AS BASE BID.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

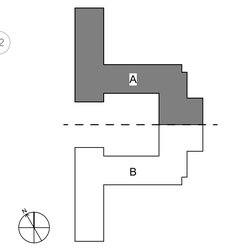
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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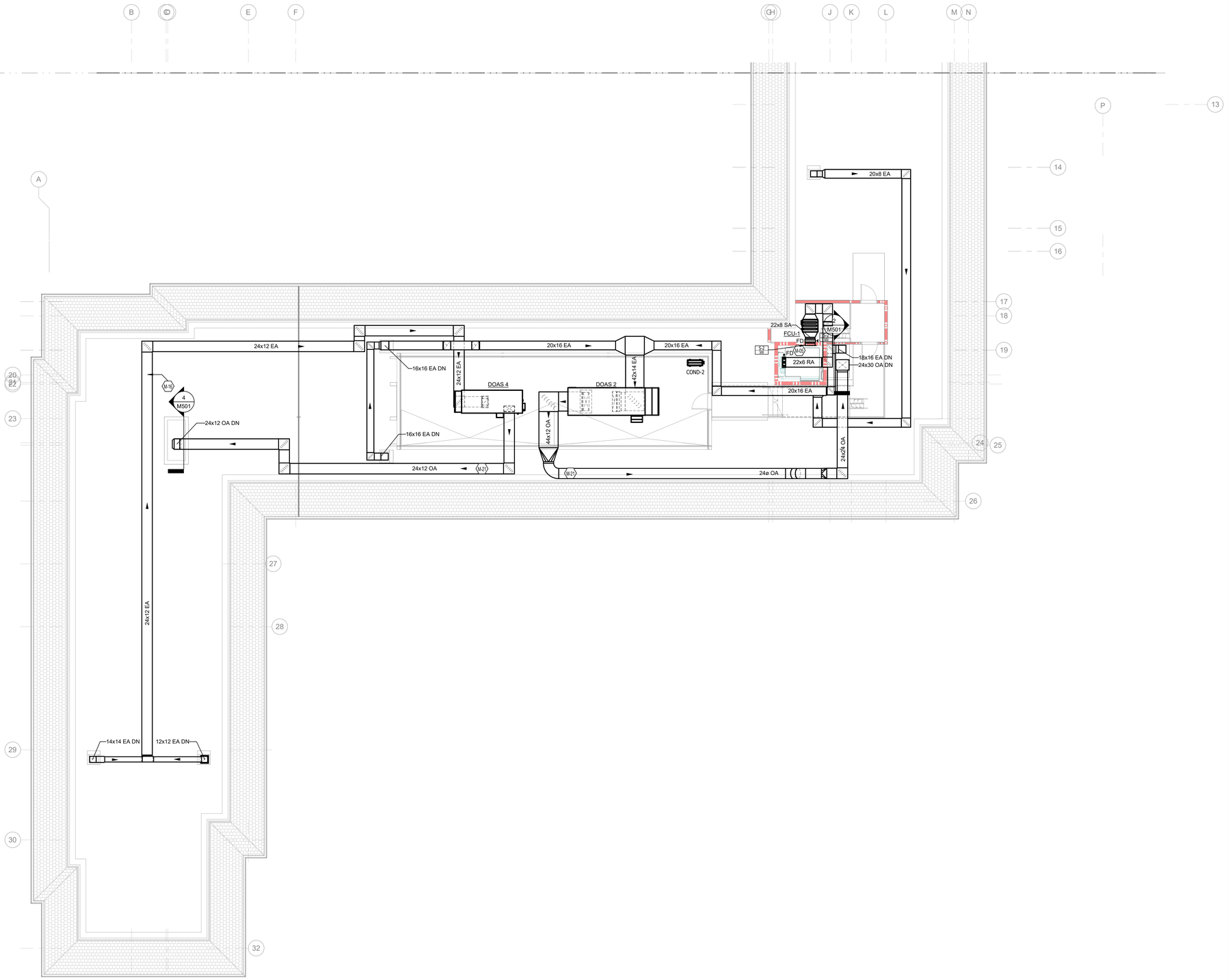
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SHEET TITLE
MECHANICAL AIR DISTRIBUTION PLAN - ROOF- AREA A

SHEET NUMBER
M106A

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1 MECHANICAL AIR DISTRIBUTION PLAN - ROOF - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

M-05 PROVIDE FIRE DAMPER AT ALL 2-HR SHAFT PENETRATIONS (TYP).

M-16 ALL DUCTWORK SHOWN OUTSIDE OF THE ROOF WELL IS ROUTED THROUGH THE ATTIC SPACE. (TYP)

M-21 ADD ALTERNATE 21 - INSULATE OUTSIDE AIR DUCTWORK IN LEVELS 1-5. ALL ATTIC AND EXTERIOR DUCTWORK MUST BE INSULATED AS BASE BID.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

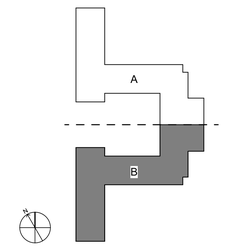
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

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PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: LILY ALACHNOWICZ

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

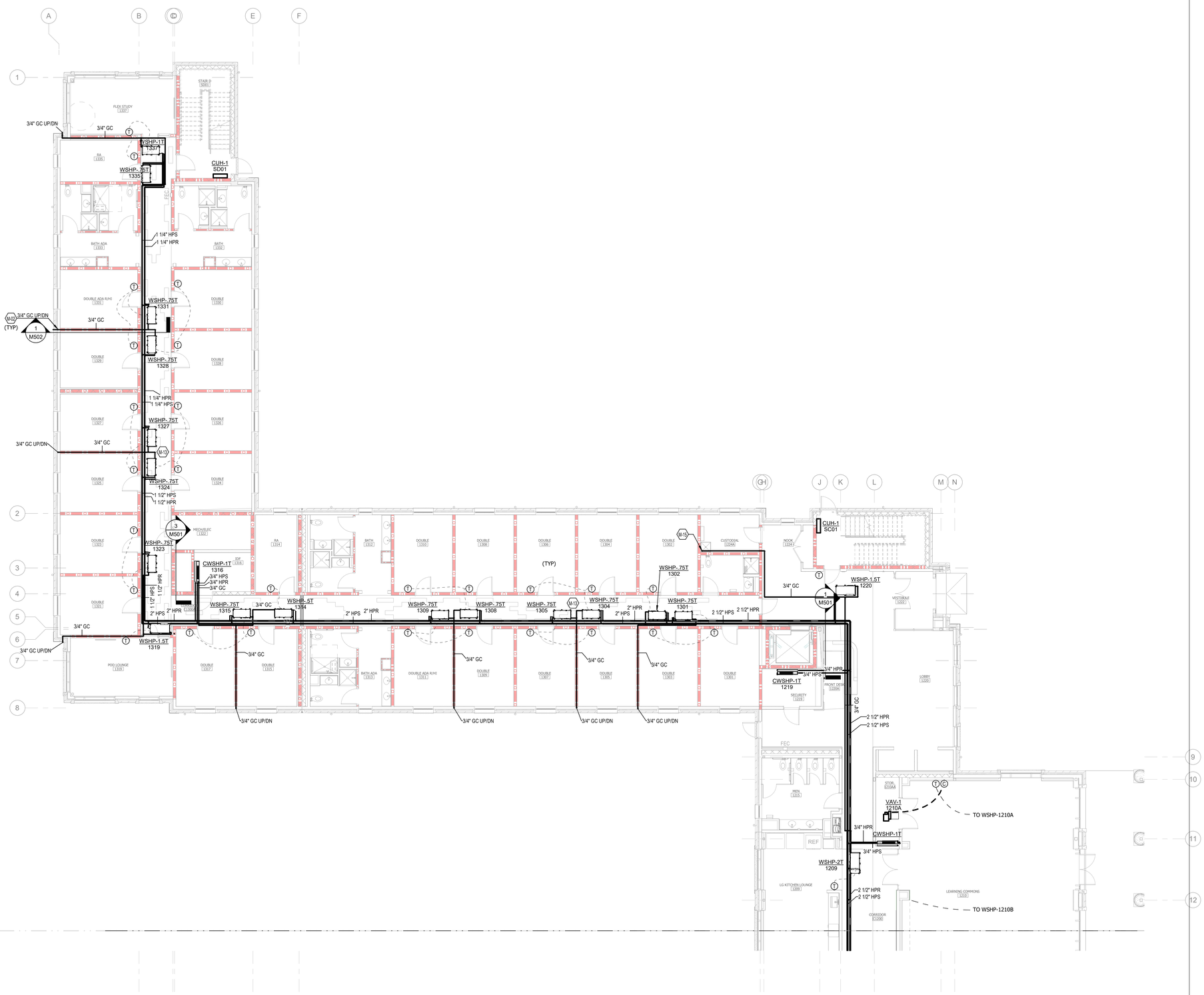
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: MECHANICAL AIR DISTRIBUTION PLAN - ROOF- AREA B

SHEET NUMBER: M106B

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1 MECHANICAL HYDRONICS - LEVEL 01 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

M-02	CONDENSATE RISERS TO RUN WITHIN EXTERIOR WALL, INSIDE INSULATION, AND DISCHARGE NEAR TO GRADE. REFER TO DETAIL 6 ON M903.
M-13	ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).
M-15	DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

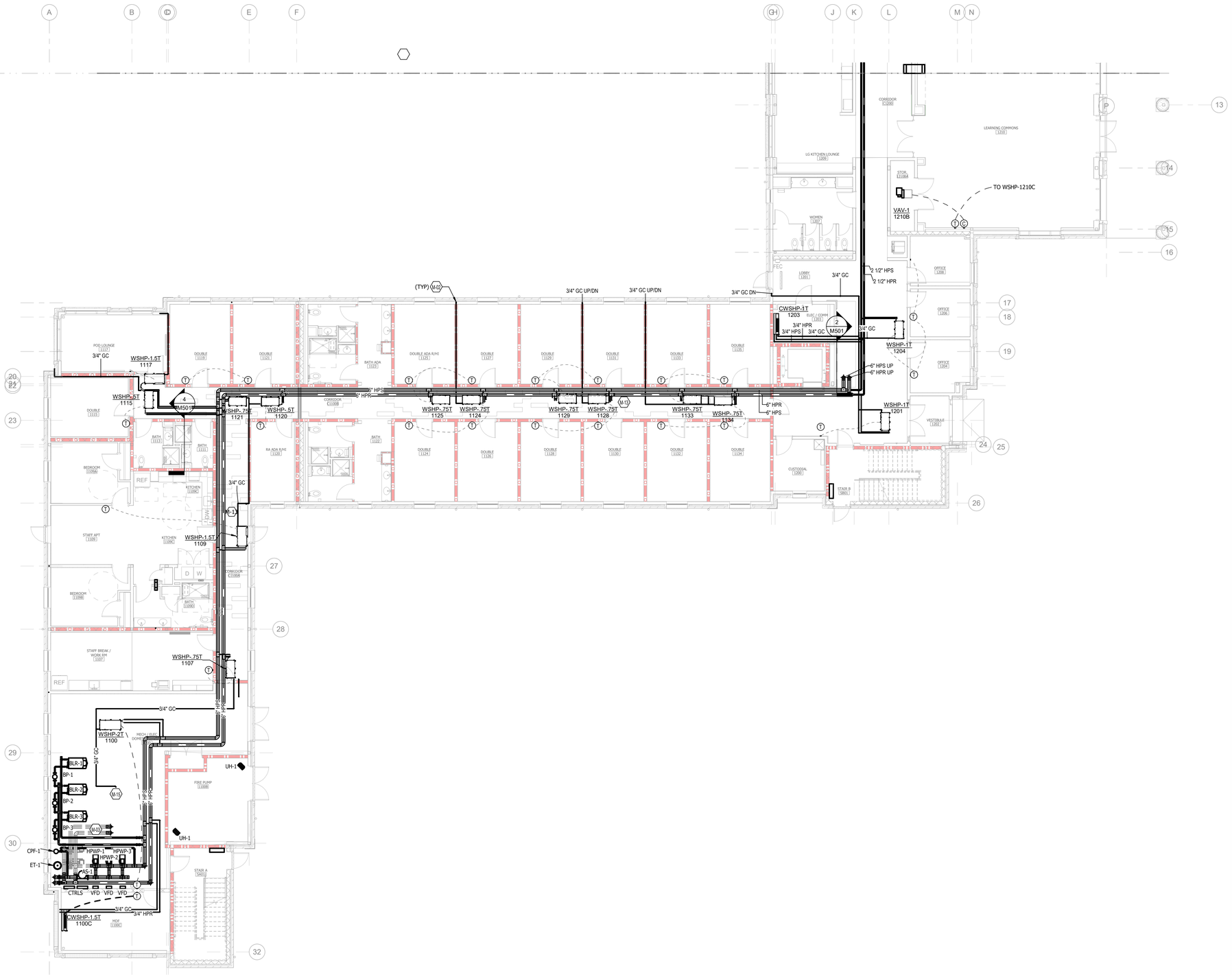
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - LEVEL 01 - AREA A

SHEET NUMBER
M201A

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1 MECHANICAL HYDRONICS - LEVEL 01 -AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

M-02 CONDENSATE RISERS TO RUN WITHIN EXTERIOR WALL, INSIDE INSULATION, AND DISCHARGE NEAR TO GRADE. REFER TO DETAIL 6 ON M903.

M-03 FUTURE PUMPS AND PIPING FOR GEOTHERMAL WELLFIELD. TO BE INSTALLED AT A FUTURE DATE.

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

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DESIGN TEAM: LILY ALACHNOWICZ

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

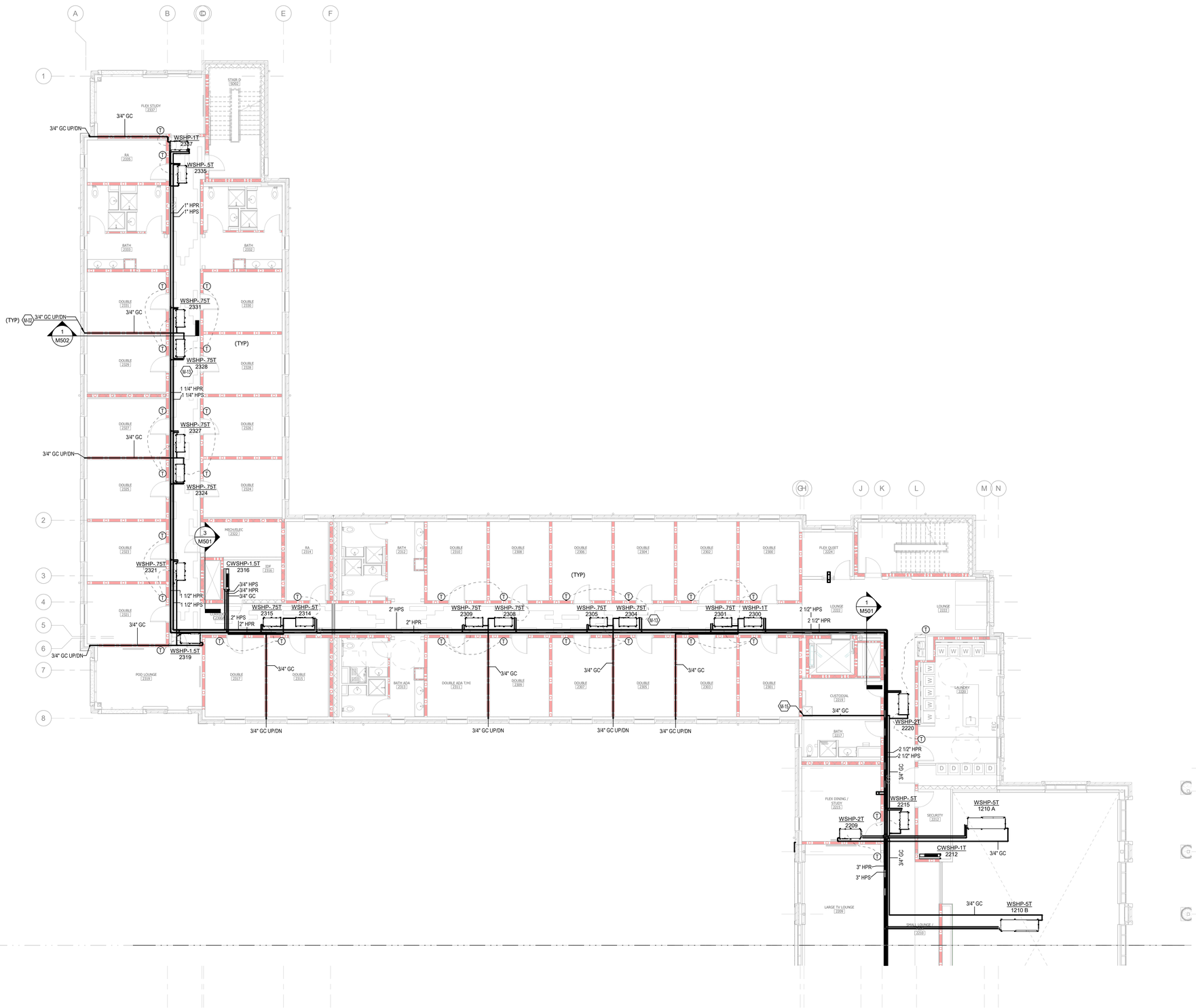
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: MECHANICAL HYDRONICS PLAN - LEVEL 01 - AREA B

SHEET NUMBER: M201B

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1 MECHANICAL HYDRONICS PLAN - LEVEL 02 - AREA A

1/8" = 1'-0"

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

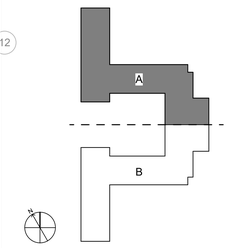
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

SHEET KEYED NOTES

M-02 CONDENSATE RISERS TO RUN WITHIN EXTERIOR WALL, INSIDE INSULATION, AND DISCHARGE NEAR TO GRADE. REFER TO DETAIL 6 ON M903.

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

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RUNCW25

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DAN KNOX, PE

DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

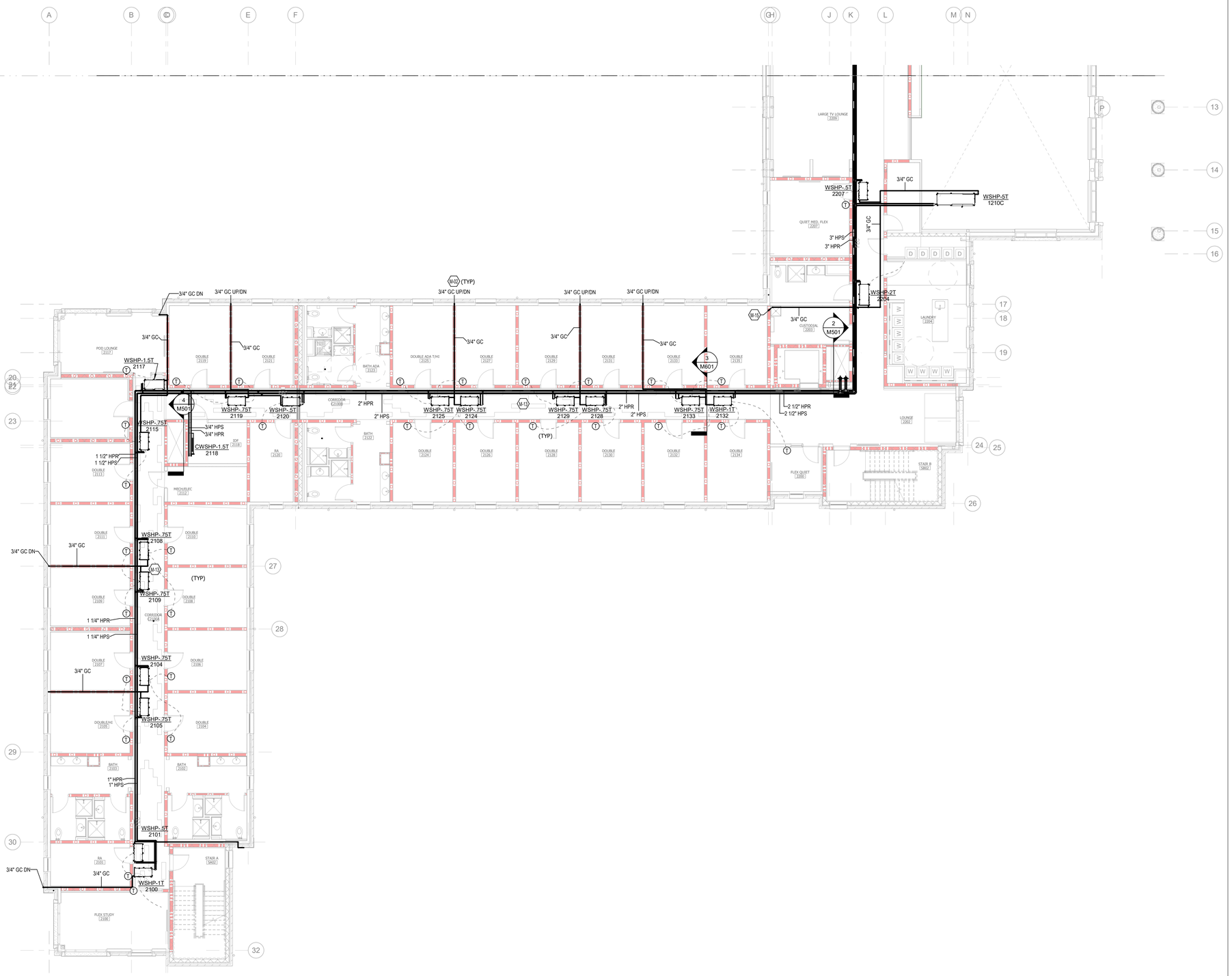
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - LEVEL 02 - AREA A

SHEET NUMBER
M202A

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1 MECHANICAL HYDRONICS PLAN - LEVEL 02 - AREA B

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

M-02 CONDENSATE RISERS TO RUN WITHIN EXTERIOR WALL, INSIDE INSULATION, AND DISCHARGE NEAR TO GRADE. REFER TO DETAIL 6 ON M903.

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

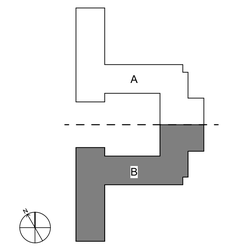
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

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PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: LILY ALACHNOWICZ

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

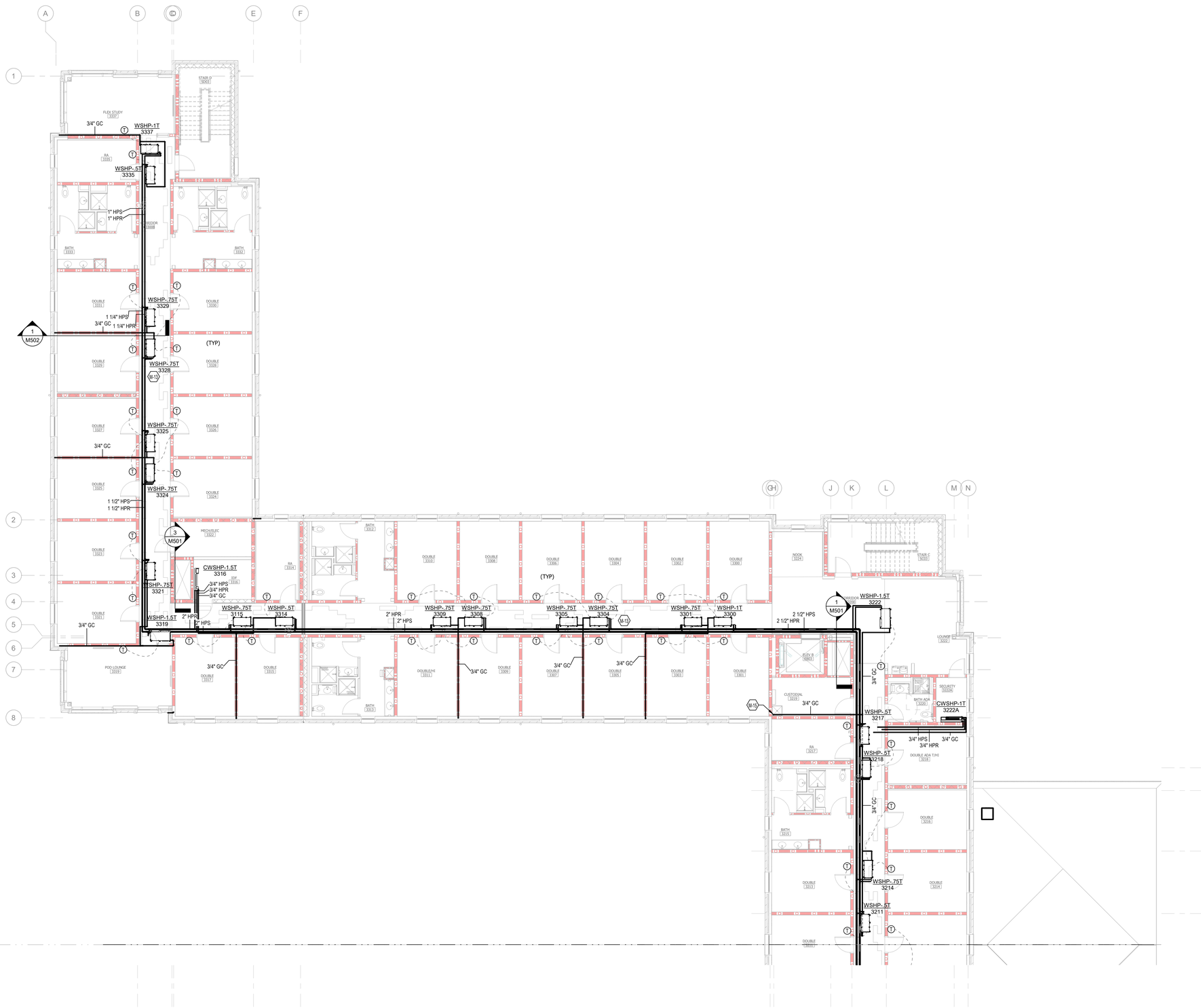
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: MECHANICAL HYDRONICS PLAN - LEVEL 02 - AREA B

SHEET NUMBER: M202B

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1 MECHANICAL HYDRONICS PLAN - LEVEL 03 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

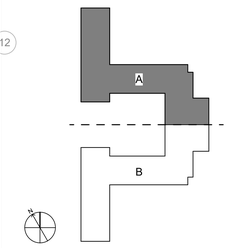
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

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DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

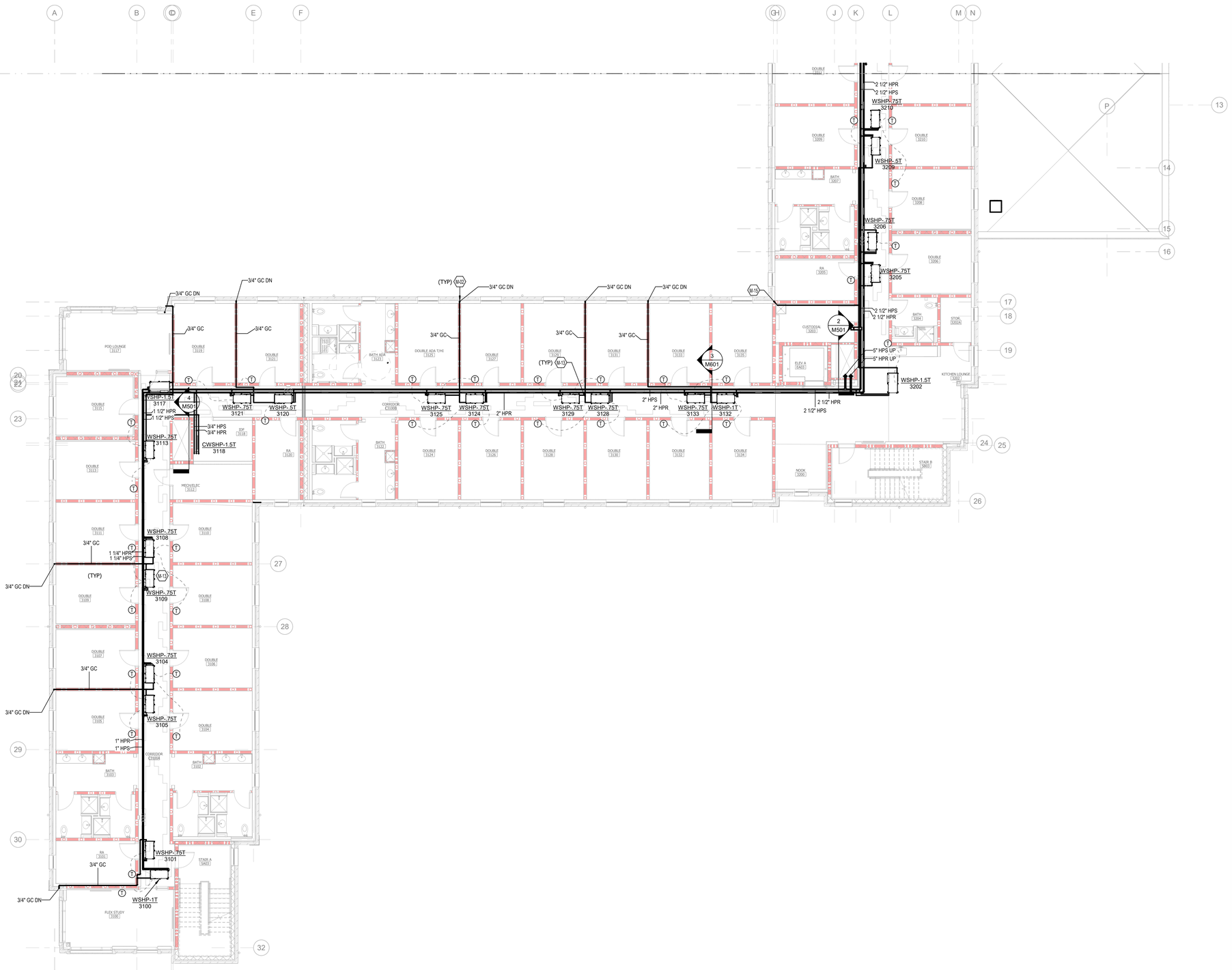
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - LEVELS 03-04 - AREA A

SHEET NUMBER
M203A

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SHEET KEYED NOTES

M-02 CONDENSATE RISERS TO RUN WITHIN EXTERIOR WALL, INSIDE INSULATION, AND DISCHARGE NEAR TO GRADE. REFER TO DETAIL 6 ON M903.

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

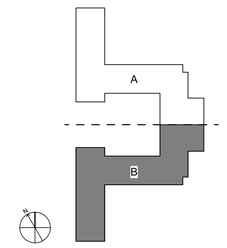
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

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DAN KNOX, PE

DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

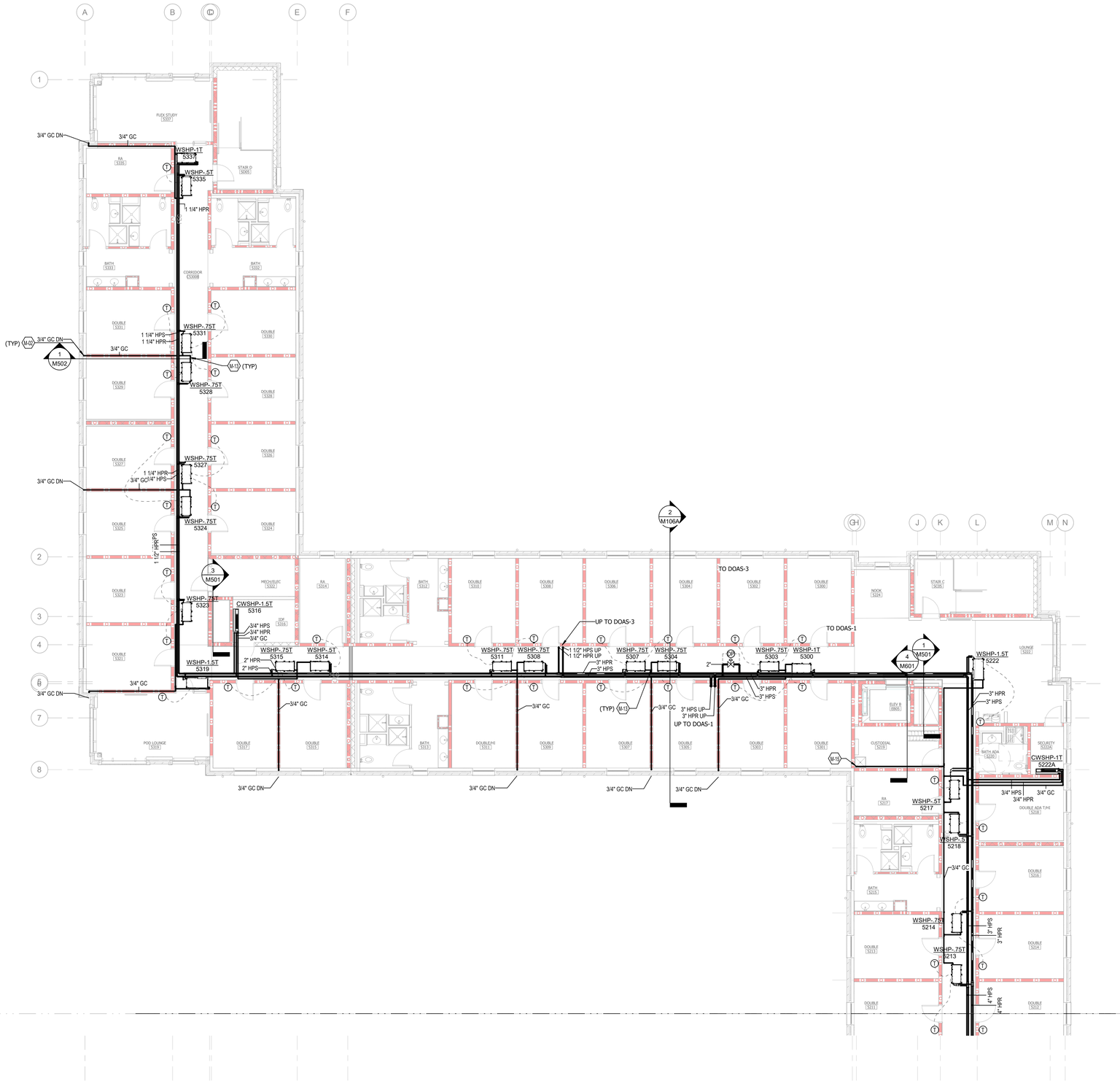
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - LEVELS 03-04 - AREA B

SHEET NUMBER
M203B

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1 MECHANICAL HYDRONICS PLAN - LEVEL 05- AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

M-02 CONDENSATE RISERS TO RUN WITHIN EXTERIOR WALL, INSIDE INSULATION, AND DISCHARGE NEAR TO GRADE. REFER TO DETAIL 6 ON M5903.

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

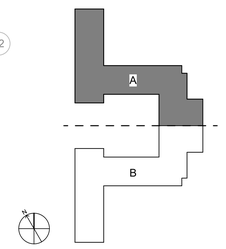
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

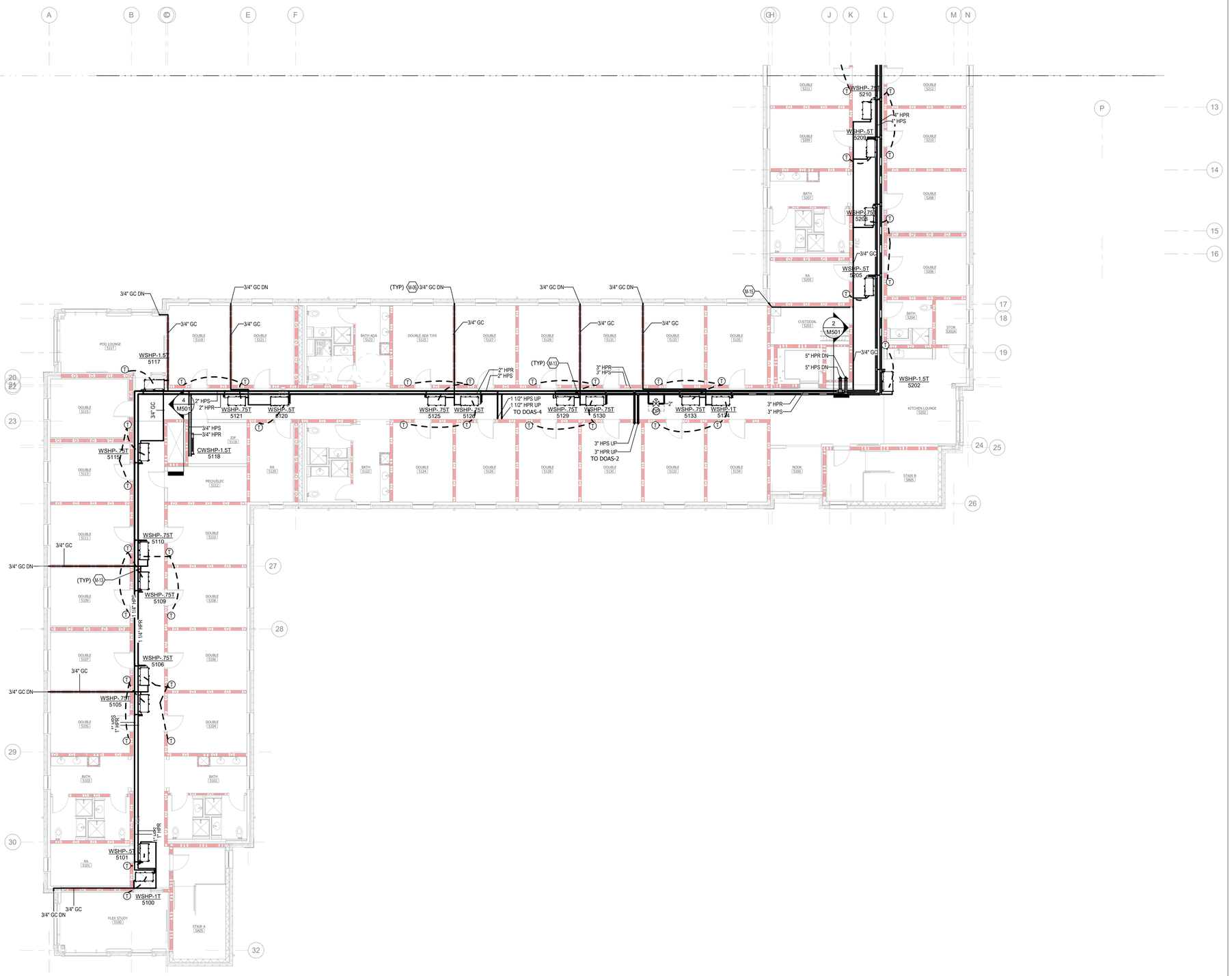
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - LEVEL 05 - AREA A

SHEET NUMBER
M205A

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1 MECHANICAL HYDRONICS PLAN - LEVEL 05- AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

M-06 CONNECT CONDENSATE DRAIN TO CONDENSATE RISER. REFER TO PLUMBING DRAWINGS FOR RISER LOCATION AND PIPE CONTINUATION.

M-13 ALL PVC PIPING IN A PLENUM SPACE SHALL BE NONCOMBUSTIBLE OR PROTECTED BY A LISTED, 25/50-RATED FIRE RESISTANT COVERING (TYPICAL FOR ALL PLENUM LOCATIONS).

M-15 DISCHARGE CONDENSATE INTO NEAREST FLOOR DRAIN OR MOP SINK.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

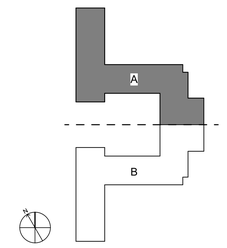
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E ROMEO

RUNCW25 01.15.2025

SCO # 24-29053-02D

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DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
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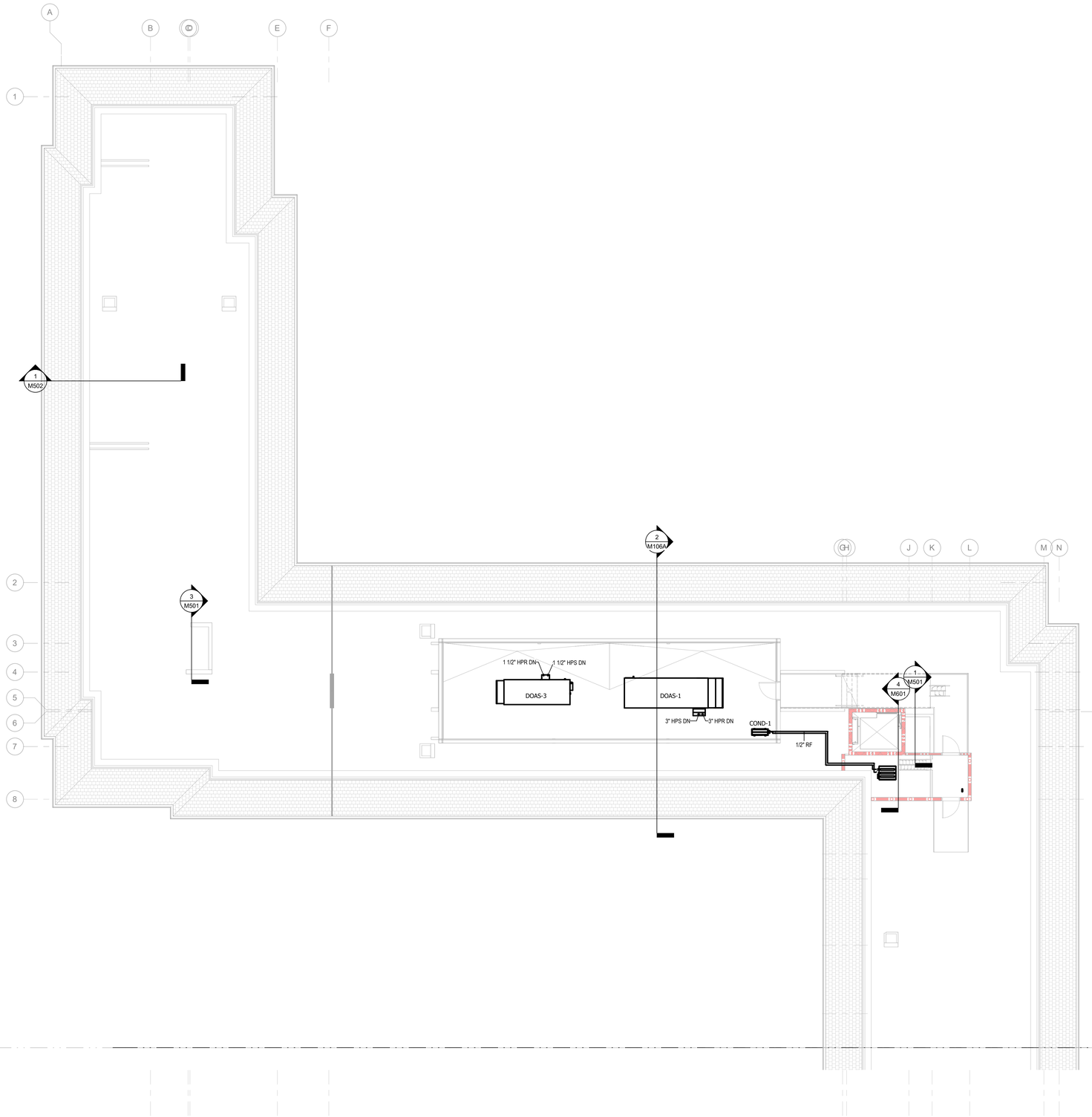
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - LEVEL 05 - AREA B

SHEET NUMBER
M205B

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1 MECHANICAL HYDRONICS PLAN - ROOF - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

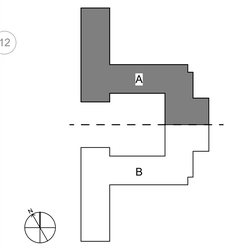
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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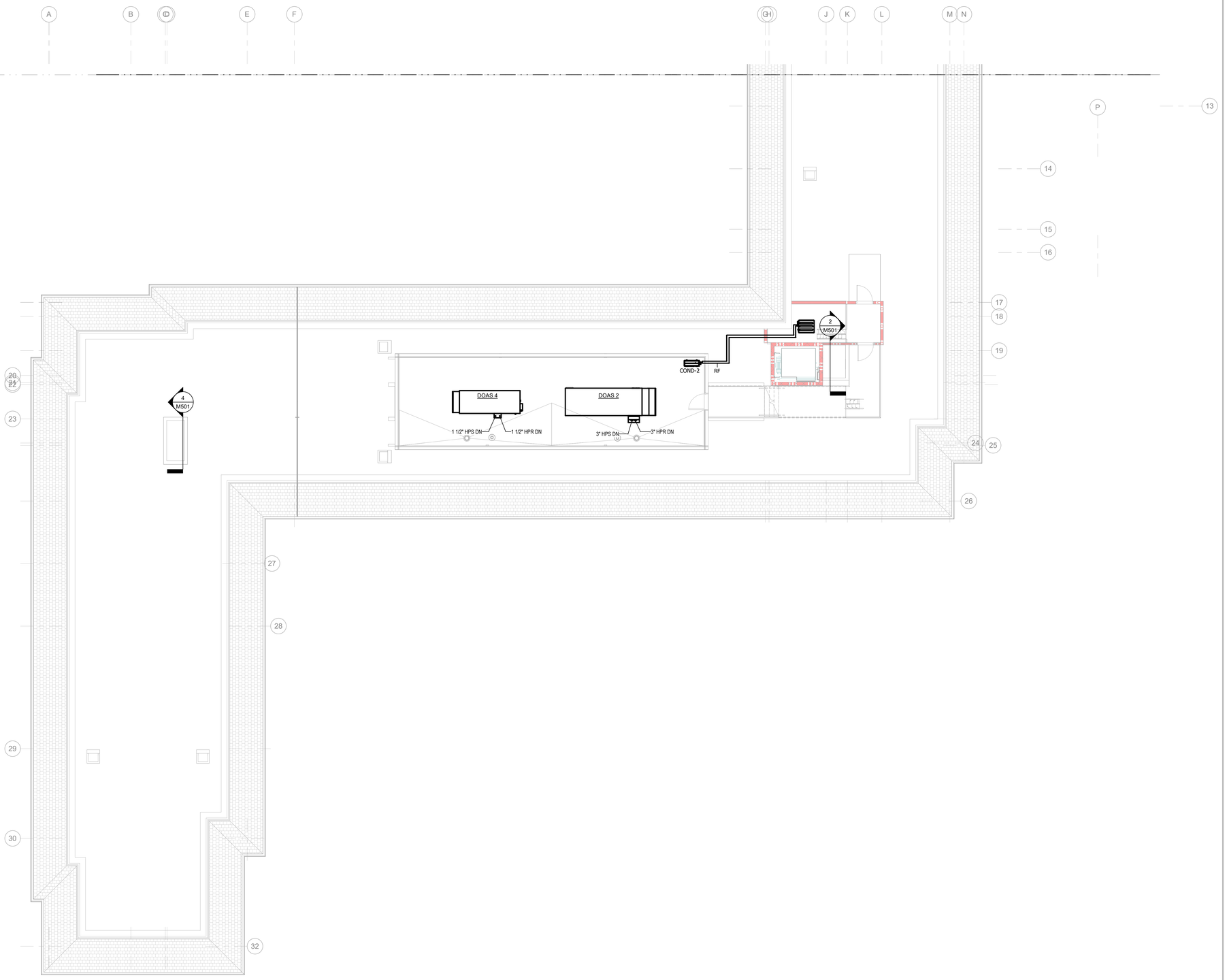
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - ROOF- AREA A

SHEET NUMBER
M206A

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1 MECHANICAL HYDRONICS PLAN - ROOF - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

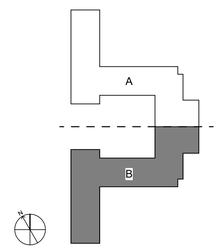
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL HYDRONICS PLAN - ROOF- AREA B

SHEET NUMBER
M206B

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DOAS UNIT SCHEDULE - FANS

Mark	MANUFACTURER	MODEL #	UNIT CONFIGURATION	PHYSICAL DATA				SUPPLY FAN									EXHAUST FAN								ELECTRICAL				
				WIDTH (IN.)	LENGTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	MAX SA CFM	OPERATING SA CFM	MIN. SA CFM	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	M HORSEPOWER SA/OA FAN	B.H.P. (PER FAN)	VFD	MAX EA CFM	OPERATING EA CFM	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	M HORSEPOWER RA/EA FAN	B.H.P. (PER FAN)	VFD	VOLTS	PHASE	FLA	MOCP	REMARKS
DOAS-1	TRANE	OAD/N	WSHP, V DA, V RA	93	213	69	4121	5000	4640	1701	1	1520	0.75	2.28	5	2.61	Yes	4500	4250	1	1817	0.75	1.77	5	2.73	Yes	460 V	3	45 A	60	ALL
DOAS-2	TRANE	OAD/N	WSHP, V DA, V RA	93	213	69	4121	5000	4780	1701	1	1595	0.75	2.28	5	2.61	Yes	4500	4295	1	1817	0.75	1.77	5	2.73	Yes	460 V	3	45 A	60	ALL
DOAS-3	TRANE	OAB	WSHP, V DA, V RA	52	119	55	1614	2500	2425	747	1	2658	0.50	2.47	3	1.74	Yes	2250	2280	1	2637	0.50	1.59	3	1.61	Yes	460 V	3	23 A	35	ALL
DOAS-4	TRANE	OAB	WSHP, V DA, V RA	52	119	55	1614	2500	2355	747	1	2658	0.50	2.47	3	1.74	Yes	2250	2130	1	2637	0.50	1.59	3	1.61	Yes	460 V	3	23 A	35	ALL

DOAS UNIT SCHEDULE - COOLING

Mark	WATER SOURCE HEAT PUMP - COOLING										
	COOLING CAPACITY (MBH)	COOLING CAPACITY SENSIBLE (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	MAX. FACE VELOCITY (FPM)	MAX. AIR PRESSURE DROP (IN. WG)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT)
DOAS-1	269.8	155.7	80	69	51	51	288	0.22	70	79	60	11.70
DOAS-2	269.8	155.7	80	69	51	51	288	0.22	70	79	60	11.70
DOAS-3	126.7	74.4	80	69	53	53	368	0.48	70	86	18	6.00
DOAS-4	126.7	74.4	80	69	53	53	368	0.48	70	86	18	6.00

DOAS UNIT SCHEDULE - HEATING

Mark	TOTAL HEATING CAP (MBH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT)	M COP
DOAS-2	226.7	57	97	45	39	60	12.80	4.5
DOAS-1	226.7	57	97	45	39	60	12.80	4.5
DOAS-3	102.3	56	93	45	36	18	5.40	4.1
DOAS-4	102.3	56	93	45	36	18	5.40	4.1

DOAS UNIT SCHEDULE - ENERGY WHEEL

Mark	ENERGY RECOVERY WHEEL PERFORMANCE																						
	WINTER OPERATION								SUMMER OPERATION												ELECTRIC DATA		
	OA / SUPPLY VENTILATION				RETURN AIR/ EXHAUST				TOTAL CAPCITY (MBH)	TOTAL EFFECTIVENESS	OA / SUPPLY VENTILATION				RETURN AIR/ EXHAUST				TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	TOTAL EFFECTIVENESS (%)	APD AIR OA / SUPPLY(IN WG)	APD AIR RETURN/ EXHAUST(IN WG)	HP	VOLTAGE	PHASE
	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)			EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)								
DOAS-1	24	21	57	47	70	58	37	36	262.7	67%	93	78	80	69	75	63	88	73	173.6	71.2	62%	0.99	0.82	0.125 hp	460 V	3
DOAS-2	24	21	57	47	70	58	37	36	262.7	67%	93	78	80	69	75	63	88	73	173.6	71.2	62%	0.99	0.82	0.125 hp	460 V	3
DOAS-3	24	21	56	47	70	58	37	36	130.4	67%	93	78	80	69	75	63	88	73	86.0	35.5	62%	1.06	0.70	0.125 hp	460 V	3
DOAS-4	24	21	56	47	70	58	37	36	130.4	67%	93	78	80	69	75	63	88	73	86.0	35.5	62%	1.06	0.70	0.125 hp	460 V	3

1. PROVIDE WITH DOAS MANUFACTURER PACKAGED CONTROLLER. INTERFACE TO BUILDING AUTOMATION SYSTEM (BAS) VIA BACnet/MSTP OR BACnet/IP. COORDINATE WITH BAS CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
2. PROVIDE WITH OUTSIDE AND EXHAUST AIRFLOW STATIONS, OR SUPPLY & EXHAUST FAN PIEZO RINGS FOR AIRFLOW TRACKING.
3. PROVIDE WITH FUSED DISCONNECT SWITCH, AND SERVICE RECEPTACLE.
4. PROVIDE CORROSION RESISTANT PACKAGE
5. PROVIDE COMPRESSOR SOUND ATTENUATION BLANKETS
6. PROVIDE WITH FACTORY INSTALLED AND WIRED SUPPLY AND RETURN AIR SMOKE DETECTORS
7. PROVIDE SUPPLY AND EXHAUST FAN SECTION SERVICE LIGHTS
8. CONSTRUCTION SHALL BE 2 INCH, INSULATED, DOUBLE WALL CONSTRUCTION.
9. REFRIGERANT SHALL BE LOW GWP

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	VOLUME		DIMENSIONAL DATA			REMARKS
				TOTAL	ACCEPTANCE	DIAMETER	HEIGHT	DRY WEIGHT	
ET-1	Bell & Gossett	B165	HORIZONTAL/VERTICAL BLADDER EXPANSION TANK	44.0	44.00	24"	34"	150 lb	

AIR SEPARATOR SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	MOUNTING	INLET PIPE SIZE	OUTLET PIPE SIZE	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT HD)	REMARKS
AS-1	B&G	R-6F	HEAT PUMP WATER	FLANGED	6"	6"	690	0.69	ALL

1. INCLUDE AUTOMATIC AIR VENT, MANUAL BLOWDOWN VALVE, AND SUPPORT BRACKETS

CHEMICAL POT FEEDER

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	REMARKS
CPF-1	NEPTUNE	DBF-10HP	10	

SPLIT SYSYEM OUTDOOR UNIT

TYPE MARK	MANUFACTURER	G MODEL #	G HEIGHT	E VOLTAGE	E PHASE	E Frequency	G WIDTH	G LENGTH	WEIGHT (LB)	COMPRESSOR TYPE	GAS PIPE SIZE	LIQUID PIPE SIZE
COND	MITSUBISHI ELECTRIC	SUZ-KA15NA2	1' - 9 5/8"	208 V	1	60 Hz	2' - 7 1/2"	0' - 11 1/4"	81	DC INVERTER-driven Twin Rotary	1/2"	1/4"

SPLIT SYSYEM INDOOR UNIT

TYPE MARK	MANUFACTURER	G MODEL #	COOLING CAPACITY (BTU/H)	G HEIGHT	G WIDTH	G LENGTH
FCU-1	MITSUBISHI ELECTRIC	PEAD-A15AA8	15000	0' - 9 7/8"	2' - 11 7/16"	2' - 4 7/8"
FCU-1	MITSUBISHI ELECTRIC	PEAD-A15AA8	15000	0' - 9 7/8"	2' - 11 7/16"	2' - 4 7/8"

CLOSED CIRCUIT COOLER SCHEDULE

Mark	MANUFACTURER	MODEL #	DIMENSIONS (IN)			WEIGHT (LBS)	CAPACITY (MBH)	FLOW RATE (GPM)	MAX. P.D. (PSI)	EWT (°F)	LWT (°F)	AMBIENT WB TEMP	ELECTRICAL DATA		REMARKS
			LENGTH	WIDTH	HEIGHT								PUMP/FAN VOLTAGE	PUMP/ FAN PHASE	
CT-1	EVAPCO	ATWB 12-3M18-Z	216"	142"	174"	33,280	3000	600	18.40	95	85	77.7 °F	460 V	3	ALL
CT-2 (ALT 21)	EVAPCO	ATWB 12-3M18-Z	216"	142"	174"	33,280	3000	600	18.40	95	85	77.7 °F	460 V	3	ALL

1. CONSTRUCTION SHALL BE SUITABLE FOR A SALTWATER ENVIRONMENT. STAINLESS STEEL OR FIBERGLASS CONSTRUCTION WITH 316 STAINLESS STEEL HARDWARE.
2. PROVIDE REMOTE MOUNTED VARIABLE FREQUENCY DRIVES WITH BYPASS FOR FAN CONTROLS. VFD SHALL BE DIRECTLY CONTROLLED BY THE BAS.
3. PROVIDE NEMA 4X MOTOR PROTECTION PANEL FOR SINGLE POINT POWER CONNECTION.
4. PROVIDE SERVICE CONVENIENCE RECEPTACLE.
5. PROVIDE VARIABLE FLOW WATER SPRAY NOZZLE. VARIABLE FLOW SPRAY NOZZLE SHALL BE DIRECTLY CONTROLLED BY THE BAS.
6. PROVIDE BASIN HEATERS CAPABLE OF MAINTAINING 45 degF BASIN WATER TEMPERATURE AT 24 degF AMBIENT AIR TEMPERATURE.
7. PROVIDE FACTORY INSTALLED AUTOMATIC LEVEL CONTROLS
8. FOR COOLERS WITH BOTTOM MOUNTED FANS, PROVIDE 6' STRUCTURE FOR MAINTANENCE
9. PROVIDE SERVICE LADDER AND PLATFORM PACKAGE

BOILER SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	FUEL	MIN GAS INLET PRESSURE (INCH .W.C.)	INPUT (MBH)	GROSS OUTPUT (MBH)	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	WATER PRESSURE DROP (FT HD)	VOLTAGE	PHASE	FLA	HZ	REMARKS
BLR-1	LOCHINVAR	KNIGHT XL KBX-0650	CONDENSING	Natural Gas	4.0	650.0	630.5	100	120	62	16.00	120 V	1	3 A	60	ALL
BLR-2	LOCHINVAR	KNIGHT XL KBX-0650	CONDENSING	Natural Gas	4.0	650.0	630.5	100	120	62	16.00	120 V	1	3 A	60	ALL
BLR-3	LOCHINVAR	KNIGHT XL KBX-0650	CONDENSING	Natural Gas	4.0	650.0	630.5	100	120	62	16.00	120 V	1	3 A	60	ALL

1. VENT MATERIAL SHALL BE PVC, CPVC, POLYPROPALINE OR AL29-4C.
2. BOILERS SHALL BE PROVIDED WITH FACTORY BOILER MANAGER. BOILER MANAGER SHALL COMMUNICATE WITH THE BAS VIA MODBUS.
3. PROVIDE WITH CONDENSATE PH NEUTRALIZATION KIT

HYDRONIC PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	FLOW	HEAD	SUCTION SIZE (IN.)	DISCHARGE SIZE (IN.)	IMPELLER SIZE (IN.)	HP	ELECTRICAL				REMARKS
									VOLTAGE	Ø	FLA	MOCP	
BP-1	Bell & Gossett	e-80 2.5x2.5x7B	62	16.00	2.5	2.5	7.0	3/4	230 V	1	6.9 A	15	2,3,4,5
BP-2	Bell & Gossett	e-80 2.5x2.5x7B	62	16.00	2.5	2.5	7.0	3/4	230 V	1	6.9 A	15	2,3,4,5
BP-3	Bell & Gossett	e-80 2.5x2.5x7B	62	16.00	2.5	2.5	7.0	3/4	230 V	1	6.9 A	15	2,3,4,5
HPWP-1	Bell & Gossett	e-1532 2.5AC	345	103.00	3	2.5	6.0	15	460 V	3	21.0 A	30	ALL
HPWP-2	Bell & Gossett	e-1532 2.5AC	345	103.00	3	2.5	6.0	15	460 V	3	21.0 A	30	ALL
HPWP-3	Bell & Gossett	e-1532 2.5AC	345	103.00	3	2.5	6.0	15	460 V	3	21.0 A	30	ALL

REMARKS:
1. PROVIDE APPROPRIATELY SIZED VARIABLE FREQUENCY DRIVE WITH BYBASS. MECHANICAL CONTRACTOR TO HANG/INSTALL VFDS. ELECTRICAL CONTRACTOR TO WIRE VFDS TO PANEL. CONTROLS CONTRACTOR TO ADD VFDS TO BAS.
2. PROVIDE APPROPRIATELY SIZED ELECTRICALLY COMMUTATED MOTOR (ECM). MECHANICAL CONTRACTOR TO HANG/INSTALL ECMS. ELECTRICAL CONTRACTOR TO WIRE ECMS TO PANEL. CONTROLS CONTRACTOR TO ADD ECMS TO BAS.
3. PUMPS 5 HP AND GREATER SHALL BE SUPPORTED ON CONCRETE PAD AND INERTIA BASE WITH SPRING ISOLATORS OF MINIMUM 1.5" STATIC DEFLECTION. THE CONCRETE INERTIA BASE WILL ACCOMMODATE BASE ELBOW SUPPORTS. THE MOUNTING DETAIL SHALL INCLUDE FLEXIBLE CONDUIT CONNECTIONS WITH FLEXIBLE LOOP. INTAKE AND DISCHARGE PIPING CONNECTIONS SHALL HAVE METAL BRAIDED FLEXIBLE PIPE CONNECTORS.
4. ACCESSORIES TO BE INCLUDED: REFER TO DETAILS FOR ALL INCLUDED ACCESSORIES
5. PROVIDE STARTUP SUPPORT, INCLUDING ALIGNMENT.

TRANSFER DUCT SCHEDULE

MARK	MANUF.	MODEL #	DIMENSIONS			AIRFLOW	AIRFLOW	DYNAMIC INSERTION LOSS, dB							REMARKS
			HEIGHT (IN)	LENGTH (IN)	WIDTH (IN)	MAX. (CFM)	MIN. (CFM)	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	
T-1	PRICE	XTU	6	30	8	200	50	13	11	17	28	39	40	32	26	
T-1.5	PRICE	XTU	6	24	6	175	50	13	11	17	28	39	40	32	26	
T-2	PRICE	XTU	6	30	12	310	50	13	11	17	28	39	40	32	26	
T-3	PRICE	XTU	6	30	20	600	50	13	11	17	28	39	40	32	26	

1. PROVIDE WITH FIBERGLASS INTERIOR LINING.

VAV/CAV BOX SCHEDULE

G MARK	G INSTANCE MARK	MANUFACTURER	MODEL #	BOX TYPE	DIMENSIONS (IN)			DUCT CONNECTIONS		INLET STATIC PRESS. @ MAX CFM (" WG)	MAX RADIATED NC	MAX. CFM	MIN. CFM	REMARKS
					LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE					
VAV-1	1210A	PRICE	SDV	SHUTOFF, NO REHEAT	20	12	8	6	12"	1.50	61	550	40	
VAV-1	1210B	PRICE	SDV	SHUTOFF, NO REHEAT	20	12	8	6	12"	1.50	61	550	40	

1. FIELD INSTALLED CONTROLS BY BAS CONTRACTOR TO BE SHIPPED TO THE FACTORY FOR INSTALLATION

INTAKE GRAVITY VENTILATOR

MARK	MANUFACTURER	MODEL	FLOW (CFM)	REMARKS
IGV-1	GREENHECK	ESD-635PD-12X12	500	

ELECTRIC UNIT HEATER SCHEDULE

G MARK	INSTANCE	MANUFACTURE	MODEL	HEATING CAPACITY (KW)	VOLTS	AMPS	PHASE	AIR FLOW (CFM)
UH-1	1100B-1	MARKEL	GIGUH05003	5.0	277 V	18 A	1	400
UH-1	1100B-2	MARKEL	GIGUH05003	5.0	277 V	18 A	1	400
CUH-1	SC01	MARKEL	6346D104833B30D0F	10.0	480 V	15 A	3	500
CUH-1	SD01	MARKEL	6346D104833B30D0F	10.0	480 V	15 A	3	500
CUH-1	SB01	MARKEL	6346D104833B30D0F	10.0	480 V	15 A	3	500
CUH-1	SA01	MARKEL	6346D104833B30D0F	10.0	480 V	15 A	3	500

REGISTERS, GRILLES, AND DIFFUSERS

TYPE MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	NOISE CRITERIA	THROW PATTERN	REMARKS
E-1	PRICE	PDDR	ALUMINUM PERFORATED RETURN DIFFUSER	6"x6"	6"	6"	200	25	N/A	
E-2	PRICE	PDDR	ALUMINUM PERFORATED RETURN DIFFUSER	24"x24"	6"	6"	100	25	N/A	
E-3	PRICE	PDDR	ALUMINUM PERFORATED RETURN DIFFUSER	24"x24"	8"	8"	200	25	N/A	
E-4	PRICE	PDR	ALUMINUM PERFORATED RETURN DIFFUSER	24"x12"	22"x10"	22"x10"	500	15	N/A	
O-1	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	6"x6"	4"	4"	200	25	4-WAY	
O-2	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	6"x6"	6"	6"	<varies>	<varies>	<varies>	
O-3	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	24"x24"	6"	6"	150	25	4-WAY	
O-4	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	24"x24"	8"	8"	280	25	4-WAY	
O-5	PRICE	LBP CORE 15B	ALUMINUM LINEAR BAR GRILLE W/ PLENUM BOX	72"X3"	10"	10"	575	20	4-WAY	
O-6	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	12"X12"	6"	6"	100	15	4-WAY	
R-1	PRICE	PDDR	ALUMINUM PERFORATED RETURN DIFFUSER	6"x6"	N/A	N/A	200	25	N/A	
R-2	PRICE	PDR	ALUMINUM PERFORATED RETURN DIFFUSER	24"x24"	N/A	N/A	2000	25	N/A	
R-3	PRICE	LBP	ALUMINUM LINEAR BAR GRILLE	24"x12"	22"x8"	N/A	500	15	N/A	
R-4	PRICE	PDR	ALUMINUM PERFORATED RETURN DIFFUSER	72"x14"	24"x12"	N/A	2000	20	N/A	
R-5	PRICE	PDR	ALUMINUM PERFORATED RETURN DIFFUSER	12"X12"	N/A	N/A	500	20	N/A	
S-1	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	24"x24"	6"	6"	150	25	4-WAY	
S-2	PRICE	LBP	ALUMINUM LINEAR BAR GRILLE	24"x8"	24"X8"	10"	500	15	1-WAY	
S-3	PRICE	SPD	ALUMINUM SQUARE PLAQUE DIFFUSER	12"X12"	6"	6"	150	20	4-WAY	
SL-1	PRICE	SDS	2 SLOT, 1.5", 3' LINEAR DIFFUSER W/ PLENUM BOX	36"x4"	6"	6"	190	25	1-WAY	
SL-2	PRICE	SDS	1 SLOT, 1.5", 4' LINEAR DIFFUSER W/ PLENUM BOX	48"x4"	6"	6"	160	25	1-WAY	
SL-3	PRICE	SDS	2 SLOT, 1.5", 4' LINEAR DIFFUSER W/ PLENUM BOX	48"x4.5"	8"	8"	300	25	1-WAY	
SL-4	PRICE	SDS	4 SLOT, 1" SLOT,3' LINEAR DIFFUSER W/ PLENUM BOX	36"X10"	8"	8"	240	21	1-WAY	
SL-5	PRICE	SDS	3 SLOT, 1.5",3' LINEAR DIFFUSER	36"X12"	8"	10"	400	32	1-WAY	
SL-6	PRICE	SDS	2 SLOT, 3/4" SLOT, 4' LINEAR DIFFUSER	48"X 8"	7"	8"	190	26	1-WAY	

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR: COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE: 01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE: JAMES CURRIE, PE
PROJECT MANAGER: DAN KNOX, PE
DESIGN TEAM: LILY ALACHNOWICZ

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: SCHEDULES

SHEET NUMBER: M301

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M WATER SOURCE HEAT PUMP SCHEDULE - FLOOR-01

MARK	INSTANCE	MANUFACTURER	MODEL #	TYPE	NOM. CFM.	ESP (IN WG.)	GPM	WATER PD (FT. H20)	WEIGHT (LB)	DIMENSIONS (IN)			ELECTRICAL					HEATING				COOLING						CONDENSATE PIPE DIA (IN)	GS/GR PIPE DIA (IN)	REMARKS
										LENGTH	WIDTH	HEIGHT	VOLTAGE	HZ	PHASE	MCA	MOCP	HEATING CAPACITY (BTU/HR)	EAT (DB) (°F)	EWT (°F)	HEAT OF ABSORPTION (BTU/HR)	COP @ ARI (FULL/PARTIAL)	SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EAT (DB)(°F)	EAT (WB)(°F)	EWT (°F)	HEAT OF REJECTION	EER @ ARI (FULL/PARTIAL)			
CWSHP-1.5T																															
CWSHP-1.5T	1100C	TRANE	GECK0181	CONSOLE	460	0.00	2.7	4.40	210	48	12	22.50	208 V	60	1	14 A	20	19800	68	68	15500	4.6	14300	18600	81	66	86	22700	13.6	.625	.625	ALL
CWSHP-1T																															
CWSHP-1T	1203	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	9000	68	68	10300	5	11200	12000	81	66	86	14300	14.1	.625	.625	ALL
CWSHP-1T	1219	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	9000	68	68	10300	5	11200	12000	81	66	86	14300	14.1	.625	.625	ALL
CWSHP-1T	1316	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15		68	68	10300	5	11200	12000	81	66	86	14300	14.1	.625	.625	ALL
WSHP-1.5T																															
WSHP-1.5T	1109	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19280	66	50	14820	5.51	12730	17080	75	64	90	21350	15.1	1	.5"	ALL
WSHP-1.5T	1117	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19280	66	50	14820	5.51	12730	17080	75	64	90	21350	15.1	1	.5"	ALL
WSHP-1.5T	1220	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19280	66	50	14820	5.51	12730	17080	75	64	90	21350	15.1	1	.5"	ALL
WSHP-1.5T	1319	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19280	66	50	14820	5.51	12730	17080	75	64	90	21350	15.1	1	.5"	ALL
WSHP-1T																															
WSHP-1T	1201	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	11590	66	50	11850	5.3	9820	11190	81	66	86	13890	15.2	.75	.5"	ALL
WSHP-1T	1204	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	11590	66	50	11850	5.3	9820	11190	81	66	86	13890	15.2	.75	.5"	ALL
WSHP-1T	1337	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	11590	66	50	11850	5.3	9820	11190	81	66	86	13890	15.2	.75	.5"	ALL
WSHP-2T																															
WSHP-2T	1100	TRANE	GEHk0247	HORIZONTAL	760	0.80	6.0	5.90	269	49	26	18.70	265 V	60	1	15 A	20	30610	68	68	24070	4.69	19890	24690	81	66	86	30340	14.9	.75	.75	ALL
WSHP-2T	1209	TRANE	GEHk0247	HORIZONTAL	760	0.80	6.0	5.90	269	49	26	18.70	265 V	60	1	15 A	20	30610	68	68	24070	4.69	19890	24690	81	66	86	30340	14.9	.75	.75	ALL
WSHP-5T																															
WSHP-5T	1210 A	TRANE	DXHK0604	HORIZONTAL	1760	1.00	17.0	15.70	400	87	29	22.13	460 V	60	3	12 A	15	67070	68	68	54870	5	44530	52800	81	67	86	66510	15	.75	1"	ALL
WSHP-5T	1210 B	TRANE	DXHK0604	HORIZONTAL	2000	1.00	15.0	31.82	400	87	29	22.13	460 V	60	3	12 A	15	55120	66	50	43700	5	40450	50870	75	64	86	65550	18.5	.75	1"	ALL
WSHP-5T	1210C	TRANE	DXHK0604	HORIZONTAL	1760	1.00	17.0	15.70	400	87	29	22.13	460 V	60	3	12 A	15	67070	68	68	54870	5	44530	52800	81	67	86	66510	15	.75	1"	ALL
WSHP-.5T																															
WSHP-.5T	1115	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7650	66	50	5670	4.6	5070	7650	75	64	90	9260	14.3	.75	.5"	ALL
WSHP-.5T	1120	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7650	66	50	5670	4.6	5070	7650	75	64	90	9260	14.3	.75	.5"	ALL
WSHP-.5T	1314	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7650	66	50	5670	4.6	5070	7650	75	64	90	9260	14.3	.75	.5"	ALL
WSHP-.75T																															
WSHP-.75T	1107	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	7650	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1121	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1124	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1125	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1128	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1129	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1133	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1134	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1301	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1302	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1304	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1305	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1308	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1309	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1315	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1323	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1324	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1327	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1328	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1331	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
WSHP-.75T	1335	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8900	66	50	6950	5.8	6240	8100	75	64	90	9990	16.8	.75	.5"	ALL
Grand total: 40																															

M WATER SOURCE HEAT PUMP SCHEDULE - FLOOR-02

MARK	INSTANCE	MANUFACTURER	MODEL #	TYPE	NOM. CFM.	ESP (IN WG.)	GPM	WATER PD (FT. H20)	WEIGHT (LB)	DIMENSIONS (IN)			ELECTRICAL					HEATING				COOLING						CONDENSATE PIPE DIA (IN)	GS/GR PIPE DIA (IN)	REMARKS
										LENGTH	WIDTH	HEIGHT	VOLTAGE	HZ	PHASE	MCA	MOCP	HEATING CAPACITY (BTU/HR)	EAT (DB) (°F)	EWT (°F)	HEAT OF ABSORPTION (BTU/HR)	COP @ ARI (FULL/PARTIAL)	SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EAT (DB)(°F)	EAT (WB)(°F)	EWT (°F)	HEAT OF REJECTION	EER @ ARI (FULL/PARTIAL)			
CWSHP-1.5T																															
CWSHP-1.5T	2118	TRANE	GECK0181	CONSOLE	530	0.00	2.7	5.40	212	48	12	22.50	208 V	60	1	14 A	20	16,800	66	50	13,100	4.6	15,300	18,700	81	66	90	22,900	13.6	.625	.625	ALL
CWSHP-1.5T	2316	TRANE	GECK0181	CONSOLE	530	0.00	2.7	5.40	212	48	12	22.50	208 V	60	1	14 A	20	16,800	66	50	13,100	4.6	15,300	18,700	81	66	90	22,900	13.6	.625	.625	ALL
CWSHP-1T																															
CWSHP-1T	2118	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	12,600	68	68	10,300	5	11,200	12,000	81	66	86	14,300	14.1	.625	.625	ALL
CWSHP-1T	2118	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	12,600	68	68	10,300	5	11,200	12,000	81	66	86	14,300	14.1	.625	.625	ALL
CWSHP-1T	2212	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	12,600	68	68	10,300	5	11,200	12,000	81	66	86	14,300	14.1	.625	.625	ALL
CWSHP-1T	2316	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	12,600	68	68	10,300	5	11,200	12,000	81	66	86	14,300	14.1	.625	.625	ALL
WSHP-1.5T																															
WSHP-1.5T	2117	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19,280	66	50	14,820	5.51	12,730	17,080	75	64	90	21,350	15.1	1	.5"	ALL
WSHP-1.5T	2319	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19,280	66	50	14,820	5.51	12,730	17,080	75	64	90	21,350	15.1	1	.5"	ALL
WSHP-1T																															
WSHP-1T	2100	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-1T	2132	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-1T	2300	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-1T	2337	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-2T																															
WSHP-2T	2204	TRANE	GEHk0247	HORIZONTAL	760	0.80	6.0	5.90	269	49	26	18.70	265 V	60	1	15 A	20	29,800	68	68	24,070	4.69	19,890	24,690	81	66	86	30,340	14.9	.75	.75	ALL
WSHP-2T	2209	TRANE	GEHk0247	HORIZONTAL	760	0.80	6.0	5.90	269	49	26	18.70	265 V	60	1	15 A	20	29,800	68	68	24,070	4.69	19,890	24,690	81	66	86	30,340	14.9	.75	.75	ALL
WSHP-2T	2220	TRANE	GEHk0247	HORIZONTAL	760	0.80	6.0	5.90	269	49	26	18.70	265 V	60	1	15 A	20	29,800	68	68	24,070	4.69	19,890	24,690	81	66	86	30,340	14.9	.75	.75	ALL
WSHP-.5T																															
WSHP-.5T	2101	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	2120	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	2207	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	2215	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	2314	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	2335	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	8,900	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.75T																															
WSHP-.75T	2104	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2105	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2108	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2109	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2115	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2119	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2124	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2125	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2128	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2129	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2133	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2301	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2304	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2305	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2308	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2309	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2315	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2321	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2324	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2327	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2328	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	2331	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
Grand total: 43																															

NOTES:
1. PROVIDE WITH FACTORY INSTALLED CONTROLS. INTERFACE TO BUILDING AUTOMATION SYSTEM (BAS) VIA BACnet/M

M WATER SOURCE HEAT PUMP SCHEDULE - FLOOR-03 (TYP FOR 04 & 05)

MARK	INSTANCE	MANUFACTURER	MODEL #	TYPE	NOM. CFM.	ESP (IN WG.)	GPM	WATER PD (FT. H20)	WEIGHT (LB)	DIMENSIONS (IN)			ELECTRICAL					HEATING				COOLING					CONDENSATE PIPE DIA (IN)	GS/GR PIPE DIA (IN)	REMARKS
										LENGTH	WIDTH	HEIGHT	VOLTAGE	HZ	PHASE	MCA	MOCP	HEATING CAPACITY (BTU/HR)	EAT (DB) (°F)	EWT (°F)	HEAT OF ABSORPTION (BTU/HR)	COP @ ARI (FULL/PARTIAL)	SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EAT (DB)(°F)	EAT (WB)(°F)	EWT (°F)	HEAT OF REJECTION	EER @ ARI (FULL/PARTIAL)			
CWSHP-1.5T																														
CWSHP-1.5T	3118	TRANE	GECK0181	CONSOLE	530	0.00	2.7	5.40	212	48	12	22.50	208 V	60	1	14 A	20	16,800	66	50	13,100	4.6	15,300	18,700	81	66	90	22,900	13.6	.625	.625	ALL
CWSHP-1.5T	3316	TRANE	GECK0181	CONSOLE	530	0.00	2.7	5.40	212	48	12	22.50	208 V	60	1	14 A	20	16,800	66	50	13,100	4.6	15,300	18,700	81	66	90	22,900	13.6	.625	.625	ALL
CWSHP-1T																														
CWSHP-1T	3222A	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	12,600	68	68	10,300	5	11,200	12,000	81	66	86	14,300	14.1	.625	.625	ALL
CWSHP-1T	3316	TRANE	GECK0121	CONSOLE	430	0.00	1.8	4.40	210	48	12	22.50	208 V	60	1	9 A	15	12,600	68	68	10,300	5	11,200	12,000	81	66	86	14,300	14.1	.625	.625	ALL
WSHP-1.5T																														
WSHP-1.5T	3117	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19,280	66	50	14,820	5.51	12,730	17,080	75	64	90	21,350	15.1	1	.5"	ALL
WSHP-1.5T	3202	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19,280	66	50	14,820	5.51	12,730	17,080	75	64	90	21,350	15.1	1	.5"	ALL
WSHP-1.5T	3222	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19,280	66	50	14,820	5.51	12,730	17,080	75	64	90	21,350	15.1	1	.5"	ALL
WSHP-1.5T	3319	TRANE	GEHK0187	HORIZONTAL	570	0.50	4.5	32.30	173	46	26	17.75	265 V	60	1	12 A	20	19,280	66	50	14,820	5.51	12,730	17,080	75	64	90	21,350	15.1	1	.5"	ALL
WSHP-1T																														
WSHP-1T	3100	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-1T	3132	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-1T	3300	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-1T	3337	TRANE	GEHK0127	HORIZONTAL	400	0.50	3.6	8.80	173	41	23	15.75	265 V	60	1	9 A	15	1,478	66	50	11,850	5.3	9,820	11,190	81	66	86	13,890	15.2	.75	.5"	ALL
WSHP-.5T																														
WSHP-.5T	3120	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	3209	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	3211	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	3217	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	3218	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	3314	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.5T	3335	TRANE	GEHK0067	HORIZONTAL	200	0.50	1.5	10.48	165	41	23	15.75	265 V	60	1	5 A	15	7,650	66	50	5,670	4.6	5,070	7,650	75	64	90	9,260	14.3	.75	.5"	ALL
WSHP-.75T																														
WSHP-.75T	3101	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3104	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3105	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3108	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3109	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3113	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3115	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3121	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3124	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3125	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3128	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3129	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3133	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3205	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3206	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3210	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3214	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3301	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3304	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3305	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3308	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3309	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3321	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3324	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3325	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3328	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
WSHP-.75T	3329	TRANE	GEHK0097	HORIZONTAL	300	0.50	2.3	10.79	165	41	23	15.75	265 V	60	1	6 A	15	8,900	66	50	6,950	5.8	6,240	8,100	75	64	90	9,990	16.8	.75	.5"	ALL
Grand total: 46																														

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
SCHEDULES

SHEET NUMBER
M303

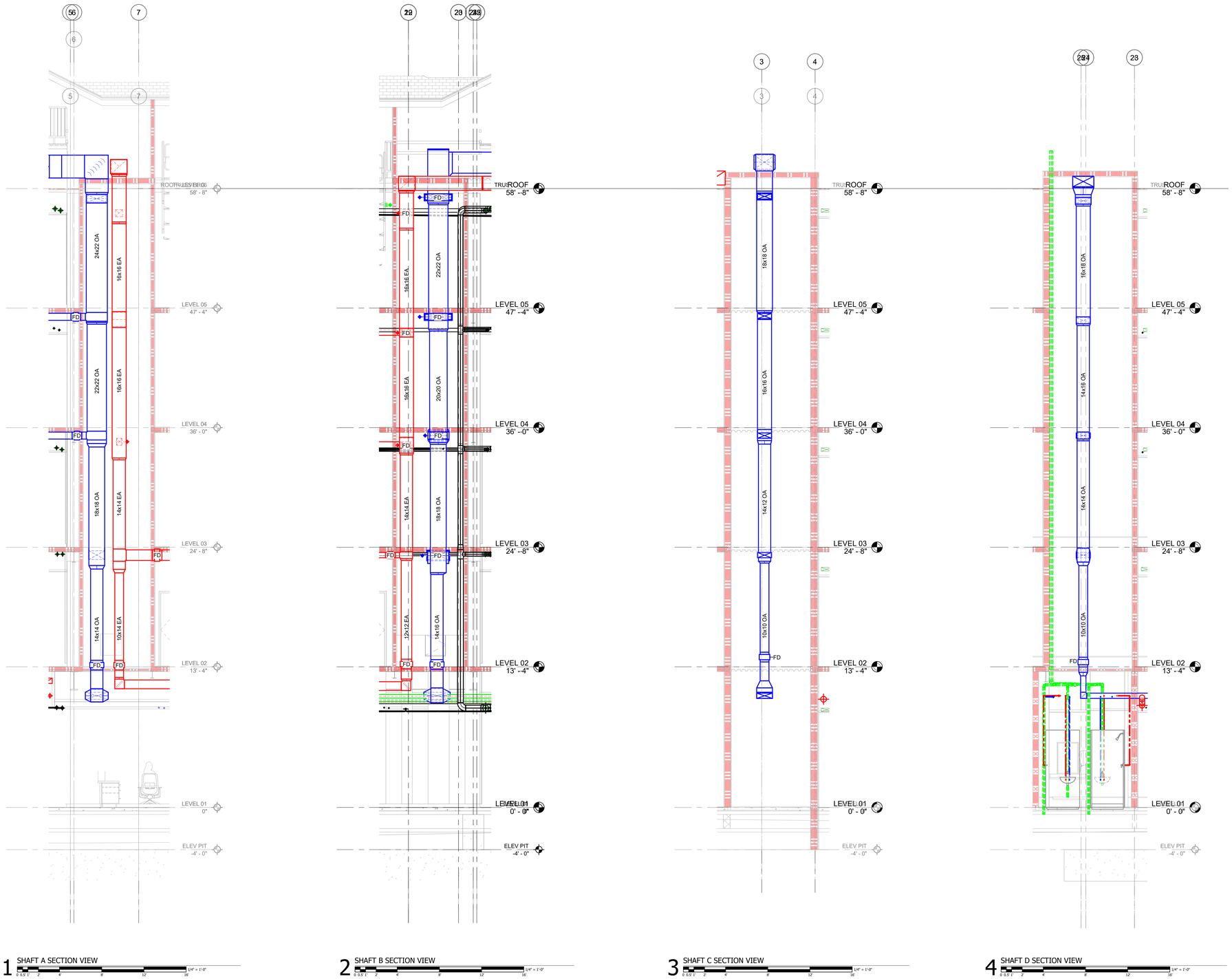
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Zone group	Room	Template	Floor area	Volume	Cooling design load w/ oversizing	Cooling supply air temperature	Design latent cooling load w/ oversizing	Heating design load w/ oversizing	Heating supply air temperature	Design occupancy	Required minimum ventilation airflow			
			(ft²)	(ft³)	(kBtu/h)	(°F)	(kBtu/h)	(kBtu/h)	(°F)	(People)	(cfm)	(cfm/person)	(cfm/ft²)	(ACH)
DOAS 1	DOUBLE 5302	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.5	2.87	55.0	0.79	667.8	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5304	CMTA - Space: Higher Ed / Dormitory	182.1	2,064.0	2.87	55.0	0.79	666.6	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5306	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.6	2.87	55.0	0.79	665.4	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 5301	CMTA - Space: Higher Ed / Dormitory	182.2	2,064.5	3.55	55.0	0.79	666.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5303	CMTA - Space: Higher Ed / Dormitory	182.2	2,065.3	3.57	55.0	0.79	667.0	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5305	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.2	3.51	55.0	0.79	667.2	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5307	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.0	3.57	55.0	0.79	667.4	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5311	CMTA - Space: Higher Ed / Dormitory	182.5	2,067.9	3.52	55.0	0.79	667.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	BATH 5313	CMTA - Space: K-12 / Restroom	277.2	3,141.1	2.54	55.0	0.47	962.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 5313	CMTA - Space: Higher Ed / Dormitory	189.5	2,147.3	3.59	55.0	0.81	689.5	90.0	2.0	20.2	10.1	0.11	0.56
DOAS 1	DOUBLE 5317	CMTA - Space: Higher Ed / Dormitory	182.0	2,062.3	3.95	55.0	0.79	666.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4301	CMTA - Space: Higher Ed / Dormitory	182.2	2,064.5	3.13	55.0	0.79	666.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4303	CMTA - Space: Higher Ed / Dormitory	182.2	2,065.3	3.18	55.0	0.79	667.0	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	FLEX STUDY 4305	CMTA - Space: Office / Small Conference	182.3	2,066.2	4.00	55.0	0.53	663.2	90.0	1.9	53.3	28.6	0.29	1.55
DOAS 1	DOUBLE 4307	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.0	3.18	55.0	0.79	667.4	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4311	CMTA - Space: Higher Ed / Dormitory	182.5	2,067.9	3.25	55.0	0.79	667.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	BATH 4313	CMTA - Space: K-12 / Restroom	277.2	3,141.1	2.08	55.0	0.41	962.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 4315	CMTA - Space: Higher Ed / Dormitory	189.5	2,147.3	3.31	55.0	0.81	689.5	90.0	2.0	20.2	10.1	0.11	0.56
DOAS 1	DOUBLE 4317	CMTA - Space: Higher Ed / Dormitory	182.0	2,062.3	3.66	55.0	0.79	666.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5300	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.5	2.89	55.0	0.79	665.3	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 5310	CMTA - Space: Higher Ed / Dormitory	173.7	1,969.1	2.77	55.0	0.78	640.5	90.0	2.0	18.5	9.2	0.11	0.56
DOAS 1	BATH 5312	CMTA - Space: K-12 / Restroom	252.9	2,866.7	1.99	55.0	0.43	886.9	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 1310	CMTA - Space: Higher Ed / Dormitory	173.7	2,316.6	2.99	55.0	0.84	756.4	90.0	2.0	18.5	9.2	0.11	0.48
DOAS 1	BATH 1312	CMTA - Space: K-12 / Restroom	252.9	3,372.6	2.27	55.0	0.45	1,055.6	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 1302	CMTA - Space: Higher Ed / Dormitory	182.5	2,433.5	3.07	55.0	0.86	789.5	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	DOUBLE 1304	CMTA - Space: Higher Ed / Dormitory	182.1	2,428.3	3.15	55.0	0.86	788.0	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	DOUBLE 1306	CMTA - Space: Higher Ed / Dormitory	181.7	2,423.0	3.14	55.0	0.85	786.5	90.0	2.0	19.3	9.7	0.11	0.48
DOAS 1	DOUBLE 1301	CMTA - Space: Higher Ed / Dormitory	182.2	2,428.8	3.39	55.0	0.82	788.2	90.0	1.8	19.4	10.7	0.11	0.48
DOAS 1	DOUBLE 1303	CMTA - Space: Higher Ed / Dormitory	182.2	2,429.8	3.44	55.0	0.86	788.4	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	DOUBLE 1305	CMTA - Space: Higher Ed / Dormitory	182.3	2,430.8	3.48	55.0	0.86	788.7	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	DOUBLE 1307	CMTA - Space: Higher Ed / Dormitory	182.4	2,431.8	3.44	55.0	0.86	789.0	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	DOUBLE ADA R/HI 1311	CMTA - Space: Higher Ed / Dormitory	182.5	2,432.9	3.39	55.0	0.86	789.3	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	BATH 1313	CMTA - Space: K-12 / Restroom	277.2	3,695.4	2.36	55.0	0.50	1,147.0	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 1315	CMTA - Space: Higher Ed / Dormitory	189.5	2,526.3	3.50	55.0	0.87	815.8	90.0	2.0	20.2	10.1	0.11	0.48
DOAS 1	DOUBLE 1317	CMTA - Space: Higher Ed / Dormitory	182.0	2,426.2	3.59	55.0	0.85	787.4	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 1	DOUBLE 2300	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.5	2.87	55.0	0.79	665.3	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 2310	CMTA - Space: Higher Ed / Dormitory	173.7	1,969.1	2.80	55.0	0.78	640.5	90.0	2.0	18.5	9.2	0.11	0.56
DOAS 1	BATH 2312	CMTA - Space: K-12 / Restroom	252.9	2,866.7	1.98	55.0	0.37	886.9	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 2302	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.5	2.93	55.0	0.79	667.8	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2304	CMTA - Space: Higher Ed / Dormitory	182.1	2,064.0	2.93	55.0	0.79	666.6	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2306	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.6	2.93	55.0	0.79	665.4	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 2301	CMTA - Space: Higher Ed / Dormitory	182.2	2,064.5	3.22	55.0	0.79	666.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2303	CMTA - Space: Higher Ed / Dormitory	182.2	2,065.3	3.39	55.0	0.79	667.0	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2305	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.2	3.42	55.0	0.79	667.2	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2307	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.0	3.43	55.0	0.79	667.4	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2311	CMTA - Space: Higher Ed / Dormitory	182.5	2,067.9	3.37	55.0	0.79	667.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	BATH ADA 2313	CMTA - Space: K-12 / Restroom	277.2	3,141.1	2.24	55.0	0.41	962.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 2315	CMTA - Space: Higher Ed / Dormitory	189.5	2,147.3	3.43	55.0	0.81	689.5	90.0	2.0	20.2	10.1	0.11	0.56
DOAS 1	DOUBLE 2317	CMTA - Space: Higher Ed / Dormitory	182.0	2,062.3	3.60	55.0	0.79	666.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3300	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.5	2.83	55.0	0.79	665.3	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 3310	CMTA - Space: Higher Ed / Dormitory	173.7	1,969.1	2.74	55.0	0.78	640.5	90.0	2.0	18.5	9.2	0.11	0.56
DOAS 1	BATH 3312	CMTA - Space: K-12 / Restroom	252.9	2,866.7	1.89	55.0	0.36	886.9	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 3302	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.5	2.88	55.0	0.79	667.8	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3304	CMTA - Space: Higher Ed / Dormitory	182.1	2,064.0	2.88	55.0	0.79	666.6	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3306	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.6	2.88	55.0	0.79	665.4	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 3301	CMTA - Space: Higher Ed / Dormitory	182.2	2,064.5	3.09	55.0	0.79	666.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3303	CMTA - Space: Higher Ed / Dormitory	182.2	2,065.3	3.30	55.0	0.79	667.0	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3305	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.2	3.26	55.0	0.79	667.2	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3307	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.0	3.31	55.0	0.79	667.4	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3311	CMTA - Space: Higher Ed / Dormitory	182.5	2,067.9	3.26	55.0	0.79	667.7	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	BATH 3313	CMTA - Space: K-12 / Restroom	277.2	3,141.1	2.08	55.0	0.40	962.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 3315	CMTA - Space: Higher Ed / Dormitory	189.5	2,147.3	3.32	55.0	0.81	689.5	90.0	2.0	20.2	10.1	0.11	0.56
DOAS 1	DOUBLE 3317	CMTA - Space: Higher Ed / Dormitory	182.0	2,062.3	3.67	55.0	0.79	666.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	BATH 3215	CMTA - Space: K-12 / Restroom	273.3	3,097.1	1.94	55.0	0.40	950.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 3213	CMTA - Space: Higher Ed / Dormitory	182.7	2,070.9	3.02	55.0	0.79	668.5	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 1	NOOK 3224	CMTA - Space: Office / Break Room	111.2	1,260.3	1.43	55.0	0.31	446.0	90.0	1.1	39.2	34.4	0.35	1.86
DOAS 1	STAIR C SC03	CMTA - Space: General / Stairwell	211.3	2,394.6	3.49	55.0	0.41	757.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 3216	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.03	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 3214	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	2.95	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	RA 3314	CMTA - Space: Higher Ed / Dormitory	159.6	1,808.8	2.34	55.0	0.53	596.5	90.0	1.0	17.0	17.0	0.11	0.56
DOAS 1	IDF 3316	CMTA - Space: General / Elec_Mech	147.3	1,669.1	1.29	55.0	0.29	558.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 4300	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.5	2.84	55.0	0.79	665.3	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 4310	CMTA - Space: Higher Ed / Dormitory	173.7	1,969.1	2.75	55.0	0.78	640.5	90.0	2.0	18.5	9.2	0.11	0.56
DOAS 1	BATH 4312	CMTA - Space: K-12 / Restroom	252.9	2,866.7	1.93	55.0	0.37	886.9	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 4302	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.5	2.88	55.0	0.79	667.8	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4304	CMTA - Space: Higher Ed / Dormitory	182.1	2,064.0	2.88	55.0	0.79	666.6	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4306	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.6	2.88	55.0	0.79	665.4	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	BATH 4215	CMTA - Space: K-12 / Restroom	273.3	3,097.1	1.91	55.0	0.40	950.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	BATH 5215	CMTA - Space: K-12 / Restroom	273.3	3,097.1	1.98	55.0	0.45	950.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 4213	CMTA - Space: Higher Ed / Dormitory	182.7	2,070.9	3.16	55.0	0.79	668.5	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 1	DOUBLE 5213	CMTA - Space: Higher Ed / Dormitory	182.7	2,070.9	3.34	55.0	0.79	668.5	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 1	NOOK 4224	CMTA - Space: General / Storage -<=	111.2	1,260.3	1.28	55.0	0.21	446.0	90.0	0.0	14.4	0.0	0.13	0.68
DOAS 1	NOOK 5224	CMTA - Space: Office / Break Room	111.2	1,260.3	1.74	55.0	0.31	446.0	90.0	1.1	39.2	34.4	0.35	1.86
DOAS 1	STAIR C SC04	CMTA - Space: General / Stairwell	211.3	2,394.6	3.46	55.0	0.41	757.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	STAIR C SC05	CMTA - Space: General / Stairwell	211.3	2,394.6	3.70	55.0	0.41	757.3	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 4216	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.06	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 5216	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.42	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 4214	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	2.98	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE 5214	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.47	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	RA 4314	CMTA - Space: Higher Ed / Dormitory	159.6	1,808.8	2.34	55.0	0.53	596.5	90.0	1.0	17.0	17.0	0.11	0.56
DOAS 1	RA 5314	CMTA - Space: Higher Ed / Dormitory	159.6	1,808.8	2.35	55.0	0.53	596.5	90.0	1.0	17.0	17.0	0.11	0.56
DOAS 1	IDF 4316	CMTA - Space: General / Elec_Mech	147.3	1,669.1	1.32	55.0	0.29	558.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	IDF 5316	CMTA - Space: General / Elec_Mech	147.3	1,669.1	1.32	55.0	0.29	558.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	RA 1314	CMTA - Space: Higher Ed / Dormitory	158.6	2,114.7	2.61	55.0	0.58	699.2	90.0	1.0	16.9	16.9	0.11	0.48
DOAS 1	BATH 2217	CMTA - Space: K-12 / Restroom	131.0	1,484.6	1.11	55.0	0.20	507.5	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	RA 2314	CMTA - Space: Higher Ed / Dormitory	158.6	1,797.2	2.35	55.0	0.53	593.4	90.0	1.0	16.9	16.9	0.11	0.56
DOAS 1	RA 5217	CMTA - Space: Higher Ed / Dormitory	109.2	1,237.9	1.40	55.0	0.43	439.8	90.0	1.0	11.6	11.6	0.11	0.56
DOAS 1	DOUBLE 3218	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.3	2.41	55.0	0.79	667.2	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5218	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.3	2.47	55.0	0.79	667.8	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4211	CMTA - Space: Higher Ed / Dormitory	182.6	2,069.7	3.03	55.0	0.79	668.2	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5211	CMTA - Space: General / Stairwell	182.6	2,069.7	3.07	55.0	0.35	668.2	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	DOUBLE 5212	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.30	55.0	0.79	664.7	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 1	DOUBLE ADA T/HI 4218	CMTA - Space: Higher Ed / Dormitory	183.6	2,080.3	2.39	55.0	0.80	671.1	90.0	2.0	19.5	9.8	0.11	0.56
DOAS 1	RA 4217	CMTA - Space: Higher Ed / Dormitory	109.2	1,237.8	1.46	55.0	0.43	439.8	90.0	1.0	11.6	11.6	0.11	0.56
DOAS 1	CUSTODIAL 4219	CMTA - Space: General / Storage -<=	178.3	2,149.1	3.12	55.0	0.50	693.5	90.0	0.0	23.1	0.0	0.13	0.64
DOAS 1	CUSTODIAL 3219	CMTA - Space: General / Storage -<=	133.3	1,510.2	1.99	55.0	0.34	510.6	90.0	0.0	17.2	0.0	0.13	0.68
DOAS 1	DOUBLE 2328	CMTA - Space: Higher Ed / Dormitory	183.7	2,081.4	2.85	55.0	0.80	671.4	90.0	2.0	19.6	9.8	0.11	0.56
DOAS 1	LOUNGE 3222	CMTA - Space: General / Lobby	278.6	3,157.6	17.84	55.0	9.73	966.8	90.0	41.8	225.6	5.4	0.81	4.29
DOAS 1	MEN 1215	CMTA - Space: Office / Restroom	199.0	2,653.6	2.16	55.0	0.37	851.8	90.0	1.0	0.0	0.0	0.00	0.00
DOAS 1	SECURITY 1219	CMTA - Space: General / Computer Room	90.2	1,202.1	6.08	55.0	0.27	440.6	90.0	0.8	18.9	23.3	0.21	0.94
DOAS 1	STAIR C SC01	CMTA - Space: General / Stairwell	230.6	3,074.2	3.64	55.0	0.53	971.0	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	NOOK 1224	CMTA - Space: Office / Small Conference	106.0	1,413.9	2.00	55.0	0.31	500.6	90.0	1.1	31.0	28.7	0.29	1.32
DOAS 1	LOBBY 1220	CMTA - Space: General / Lobby	988.3	13,177.0	16.65	55.0	3.35	3,833.5	90.0	5.0	84.3	16.9	0.09	0.38
DOAS 1	VESTIBULE 1222	CMTA - Space: General / Corridor	88.0	1,173.5	3.59	55.0	0.18	432.5	90.0	0.0	5.3	0.0	0.06	0.27
DOAS 1	FLEX STUDY 2215	CMTA - Space: Office / Small Conference	220.8	2,501.9	3.77	55.0	1.44	786.8	90.0	6.0	64.5	10.8	0.29	1.55
DOAS 1	SECURITY 2212	CMTA - Space: General / Storage -<=	99.7	1,130.3	0.97	55.0	0.18	410.3	90.0	0.0	12.9	0.0	0.13	0.68
DOAS 1	LAUNDRY 2220	CMTA - Space: Laundry/ Washing Area	283.9	3,217.3	10.12	55.0	0.83	983.2	90.0	2.8	48.3	17.0	0.17	0.90
DOAS 1	CUSTODIAL 2219	CMTA - Space: General / Storage -<=	120.9	1,370.5	1.99	55.0	0.32	472.2	90.0	0.0	15.6	0.0	0.13	0.68
DOAS 1	FLEX QUIET 2224	CMTA - Space: Office / Small Conference	101.1	1,145.7	2.16	55.0	0.50	414.5	90.0	2.0	29.5	14.8	0.29	1.55
DOAS 1	LOUNGE 2222	CMTA - Space: Office / Break Room	424.8	4,814.0	8.32	55.0	1.12	1,421.5	90.0	4.0	149.6	37.4	0.35	1.86
DOAS 1	STAIR C SC02	CMTA - Space: General / Stairwell	231.3	2,621.5	3.33	55.0	0.45	819.6	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 1	CORRIDOR C2200	CMTA - Space: General / Corridor	820.3	9,296.2	6.36	55.0	1.19	2,651.9	90.0	0.0	49.2	0.0	0.06	0.32
DOAS 1	DOUBLE 2126	CMTA - Space: Higher Ed / Dormitory	183.0	2,074.1	3.15	55.0	0.79	669.4	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 1	DOUBLE 2124	CMTA - Space: Higher Ed / Dormitory	185.3	2,100.2	3.24	55.0	0.80	676.5	90.0	2.0	19.7	9.9	0.11	0.56
DOAS 1	DOUBLE 3124	CMTA - Space: Higher Ed / Dormitory	186.3	2,111.7	3.24	55.0	0.80	679.7	90.0	2.0	19.8	9.9	0.11	0.56
DOAS 1	DOUBLE 3126	CMTA - Space: Higher Ed / Dormitory	179.7	2,036.0	3.11	55.0	0.79	658.9	90.0	2.0	19.1	9.6	0.11	0.56
DOAS 1	DOUBLE 4124	CMTA - Space: Higher Ed / Dormitory	186.3	2,111.7	3.15	55.0	0.80	679.7	90.0	2.0	19.8	9.9	0.11	0.56
DOAS 1	DOUBLE 4126	CMTA - Space: Higher Ed / Dormitory	179.7	2,036.0	3.07	55.0	0.79	658.9	90.0	2.0	19.1	9.6	0.11	0.56
DOAS 1	DOUBLE 1308	CMTA - Space: Higher Ed / Dormitory	182.9	2,438.9	2.78	55.0	0.86	791.0	90.0	2.0	19.5	9.7	0.11	0.48
DOAS 1	DOUBLE 1109	CMTA - Space: Higher Ed / Dormitory	183.2	2,442.8	2.78	55.0	0.86	792.1	90.0	2.0	19.5	9.8	0.11	0.48
DOAS 1	DOUBLE 2308	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	2.93	55.0	0.79	667.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 2309	CMTA - Space: Higher Ed / Dormitory	183.2	2,076.4	3.43	55.0	0.80	670.0	90.0	2.0	19.5	9.8	0.11	0.56
DOAS 1	DOUBLE 3308	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	2.88	55.0	0.79	667.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 4308	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	2.88	55.0	0.79	667.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 5308	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	2.87	55.0	0.79	667.1	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 1	DOUBLE 3309	CMTA - Space: Higher Ed / Dormitory	183.2	2,076.4	3.32	55.0	0.80	670.0	90.0	2.0	19.5	9.8	0.11	0.56
DOAS 1	DOUBLE 4309	CMTA - Space: Higher Ed / Dormitory	183.2	2,076.4	3.30	55.0	0.80	670.0	90.0	2.0	19.5	9.8	0.11	0.56
DOAS 1	DOUBLE 5309	CMTA - Space: Higher Ed / Dormitory	183.2	2,076.4	3.57	55.0	0.80	670.0	90.0	2.0	19.5	9.8

Zone group	Room	Template	Floor area	Volume	Cooling design load with oversizing	Cooling supply air temperature	Design latent cooling load with oversizing	Heating design load with oversizing	Heating supply air temperature	Design occupancy	Required minimum ventilation airflow			
			(ft^2)	(ft^3)	(kBtu/h)	(°F)	(kBtu/h)	(kBtu/h)	(°F)	(People)	(cfm)	(cfm/person)	(cfm/ft^2)	(ACH)
DOAS 3	DOUBLE 4326	CMTA - Space: Higher Ed / Dormitory	183.1	2,074.8	3.71	55.0	0.97	1.74	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 3	DOUBLE 5324	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.4	3.61	55.0	0.97	2.00	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	DOUBLE 5328	CMTA - Space: Higher Ed / Dormitory	183.8	2,083.3	3.59	55.0	0.97	2.09	90.0	2.0	19.6	9.8	0.11	0.56
DOAS 3	BATH 5332	CMTA - Space: K-12 / Restroom	254.8	2,887.5	1.98	55.0	0.42	2.07	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	BATH 5333	CMTA - Space: K-12 / Restroom	251.8	2,853.3	1.62	55.0	0.42	1.92	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	DOUBLE 1331	CMTA - Space: Higher Ed / Dormitory	182.3	2,430.5	3.28	55.0	0.86	2.10	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 3	DOUBLE 2331	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	3.72	55.0	0.97	1.72	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	DOUBLE 4331	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	3.67	55.0	0.97	1.73	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	DOUBLE 5321	CMTA - Space: Higher Ed / Dormitory	172.6	1,956.5	4.00	55.0	0.94	2.42	90.0	2.0	18.4	9.2	0.11	0.56
DOAS 3	DOUBLE 5323	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.73	55.0	0.96	2.10	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 5325	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.71	55.0	0.96	2.08	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 5327	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.71	55.0	0.96	2.08	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 5329	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.71	55.0	0.96	2.08	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 5331	CMTA - Space: Higher Ed / Dormitory	182.3	2,065.9	3.80	55.0	0.97	2.06	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	BATH 2333	CMTA - Space: K-12 / Restroom	251.8	2,853.3	1.64	55.0	0.37	1.46	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	DOUBLE 1325	CMTA - Space: Higher Ed / Dormitory	181.5	2,420.0	3.33	55.0	0.85	2.12	90.0	2.0	19.3	9.7	0.11	0.48
DOAS 3	DOUBLE 1327	CMTA - Space: Higher Ed / Dormitory	181.5	2,420.0	3.33	55.0	0.85	2.12	90.0	2.0	19.3	9.7	0.11	0.48
DOAS 3	DOUBLE 1329	CMTA - Space: Higher Ed / Dormitory	181.5	2,420.0	3.33	55.0	0.85	2.12	90.0	2.0	19.3	9.7	0.11	0.48
DOAS 3	DOUBLE 1326	CMTA - Space: Higher Ed / Dormitory	183.1	2,440.9	3.36	55.0	0.86	2.10	90.0	2.0	19.5	9.7	0.11	0.48
DOAS 3	DOUBLE 1324	CMTA - Space: Higher Ed / Dormitory	182.3	2,431.0	3.34	55.0	0.86	2.02	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 3	DOUBLE 1321	CMTA - Space: Higher Ed / Dormitory	172.6	2,301.7	3.43	55.0	0.83	2.28	90.0	2.0	18.4	9.2	0.11	0.48
DOAS 3	DOUBLE 1323	CMTA - Space: Higher Ed / Dormitory	181.5	2,420.0	3.34	55.0	0.85	2.14	90.0	2.0	19.3	9.7	0.11	0.48
DOAS 3	BATH 1213	CMTA - Space: K-12 / Restroom	251.8	3,356.9	2.17	55.0	0.46	1.97	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	POD LOUNGE 1319	CMTA - Space: Office / Break Room	242.1	3,228.5	9.36	55.0	1.70	6.53	90.0	7.0	85.3	12.2	0.35	1.59
DOAS 3	BATH 2332	CMTA - Space: K-12 / Restroom	254.8	2,887.5	1.78	55.0	0.36	1.59	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	DOUBLE 2326	CMTA - Space: Higher Ed / Dormitory	183.1	2,074.8	3.81	55.0	0.97	1.69	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 3	DOUBLE 2324	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.4	3.82	55.0	0.97	1.65	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	DOUBLE 2321	CMTA - Space: Higher Ed / Dormitory	172.6	1,956.5	3.69	55.0	0.94	1.89	90.0	2.0	18.4	9.2	0.11	0.56
DOAS 3	DOUBLE 2323	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.65	55.0	0.96	1.76	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 2325	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.64	55.0	0.96	1.75	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 2327	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.64	55.0	0.96	1.75	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 2329	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.64	55.0	0.96	1.75	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	POD LOUNGE 2319	CMTA - Space: Office / Break Room	242.1	2,744.2	9.03	55.0	1.70	5.33	90.0	7.0	85.3	12.2	0.35	1.86
DOAS 3	BATH 3332	CMTA - Space: K-12 / Restroom	254.8	2,887.5	1.74	55.0	0.35	1.59	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	DOUBLE 3326	CMTA - Space: Higher Ed / Dormitory	183.1	2,074.8	3.71	55.0	0.97	1.73	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 3	DOUBLE 3324	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.4	3.77	55.0	0.97	1.65	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	DOUBLE 4321	CMTA - Space: Higher Ed / Dormitory	172.6	1,956.5	3.86	55.0	0.94	2.12	90.0	2.0	18.4	9.2	0.11	0.56
DOAS 3	DOUBLE 4323	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.60	55.0	0.96	1.78	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 4325	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.59	55.0	0.96	1.76	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 4327	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.59	55.0	0.96	1.76	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 4329	CMTA - Space: Higher Ed / Dormitory	181.5	2,057.0	3.59	55.0	0.96	1.76	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	BATH 3333	CMTA - Space: K-12 / Restroom	251.8	2,853.3	1.61	55.0	0.36	1.46	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	POD LOUNGE 3319	CMTA - Space: Office / Break Room	242.1	2,744.2	16.83	55.0	1.70	11.65	90.0	7.0	85.3	12.2	0.35	1.86
DOAS 3	MECH/ELEC 3322	CMTA - Space: General / Computer Room	82.5	935.0	6.01	55.0	0.26	0.16	90.0	0.7	17.3	23.3	0.21	1.11
DOAS 3	DOUBLE 3330	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.1	3.69	55.0	0.96	1.71	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 3328	CMTA - Space: Higher Ed / Dormitory	183.8	2,083.3	3.74	55.0	0.97	1.72	90.0	2.0	19.6	9.8	0.11	0.56
DOAS 3	BATH 4332	CMTA - Space: K-12 / Restroom	254.8	2,887.5	1.78	55.0	0.36	1.61	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	DOUBLE 5326	CMTA - Space: Higher Ed / Dormitory	183.1	2,074.8	3.58	55.0	0.97	2.08	90.0	2.0	19.5	9.7	0.11	0.56
DOAS 3	DOUBLE 4324	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.4	3.78	55.0	0.97	1.67	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	BATH 4333	CMTA - Space: K-12 / Restroom	251.8	2,853.3	1.66	55.0	0.37	1.47	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	POD LOUNGE 4319	CMTA - Space: Office / Break Room	242.1	2,744.2	16.85	55.0	1.70	11.83	90.0	7.0	85.3	12.2	0.35	1.86
DOAS 3	POD LOUNGE 5319	CMTA - Space: Office / Break Room	242.1	2,744.2	17.35	55.0	1.70	12.17	90.0	7.0	85.3	12.2	0.35	1.86
DOAS 3	MECH/ELEC 4322	CMTA - Space: General / Computer Room	82.5	935.0	6.01	55.0	0.26	0.17	90.0	0.7	17.3	23.3	0.21	1.11
DOAS 3	MECH/ELEC 5322	CMTA - Space: General / Computer Room	82.5	935.0	5.89	55.0	0.26	0.33	90.0	0.7	17.3	23.3	0.21	1.11
DOAS 3	DOUBLE 4330	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.1	3.70	55.0	0.96	1.73	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 5330	CMTA - Space: Higher Ed / Dormitory	181.7	2,059.1	3.65	55.0	0.96	2.05	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 3	DOUBLE 4328	CMTA - Space: Higher Ed / Dormitory	183.8	2,083.3	3.72	55.0	0.97	1.75	90.0	2.0	19.6	9.8	0.11	0.56
DOAS 3	MECH/ELEC 1322	CMTA - Space: General / Computer Room	95.3	1,270.6	6.36	55.0	0.28	0.42	90.0	0.8	20.0	23.5	0.21	0.94
DOAS 3	IDF1316	CMTA - Space: General / Elec_Mech	135.5	1,806.3	1.59	55.0	0.31	0.46	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	DOUBLE 1330	CMTA - Space: Higher Ed / Dormitory	183.6	2,447.3	3.31	55.0	0.86	2.09	90.0	2.0	19.5	9.8	0.11	0.48
DOAS 3	DOUBLE 1328	CMTA - Space: Higher Ed / Dormitory	182.0	2,426.0	3.38	55.0	0.85	2.08	90.0	2.0	19.4	9.7	0.11	0.48
DOAS 3	IDF 2316	CMTA - Space: General / Elec_Mech	134.4	1,522.8	2.18	55.0	0.39	0.13	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	MECH/ELEC 2322	CMTA - Space: General / Computer Room	96.4	1,092.6	6.87	55.0	0.30	0.22	90.0	0.9	20.2	23.5	0.21	1.11
DOAS 3	CORRIDOR C2300B	CMTA - Space: General / Corridor	696.7	7,896.3	8.86	55.0	1.64	1.83	90.0	0.0	41.8	0.0	0.06	0.32
DOAS 3	CORRIDOR C5300B	CMTA - Space: General / Corridor	696.7	7,896.3	8.40	55.0	1.82	3.27	90.0	0.0	41.8	0.0	0.06	0.32
DOAS 3	BATH 1214	CMTA - Space: K-12 / Restroom	254.8	3,397.1	2.29	55.0	0.45	2.12	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	CORRIDOR 1300B	CMTA - Space: General / Corridor	696.7	9,289.8	6.46	55.0	1.28	3.20	90.0	0.0	41.8	0.0	0.06	0.27
DOAS 3	CORRIDOR C4300B	CMTA - Space: General / Corridor	696.7	7,896.3	8.64	55.0	1.61	1.99	90.0	0.0	41.8	0.0	0.06	0.32
DOAS 3	CORRIDOR C3300B	CMTA - Space: General / Corridor	696.7	7,896.3	8.54	55.0	1.60	1.95	90.0	0.0	41.8	0.0	0.06	0.32
DOAS 3	DOUBLE 2330	CMTA - Space: Higher Ed / Dormitory	181.8	2,060.9	3.80	55.0	0.96	1.67	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 3	FLEX STUDY 3337	CMTA - Space: Office / Small Conference	237.7	2,654.3	9.32	55.0	0.64	8.60	90.0	2.0	69.5	34.7	0.29	1.57
DOAS 3	FLEX STUDY 4337	CMTA - Space: Office / Small Conference	237.7	2,693.9	9.35	55.0	0.65	8.64	90.0	2.0	69.5	34.7	0.29	1.55
DOAS 3	FLEX STUDY 5336	CMTA - Space: Office / Small Conference	237.7	2,693.9	9.67	55.0	0.66	8.98	90.0	2.0	69.5	34.7	0.29	1.55
DOAS 3	RA 3335	CMTA - Space: Higher Ed / Dormitory	138.5	1,547.1	3.15	55.0	0.61	1.81	90.0	1.0	14.7	14.7	0.11	0.57
DOAS 3	RA 4335	CMTA - Space: Higher Ed / Dormitory	138.5	1,570.2	3.16	55.0	0.62	1.83	90.0	1.0	14.7	14.7	0.11	0.56
DOAS 3	RA 5335	CMTA - Space: Higher Ed / Dormitory	138.5	1,570.2	3.27	55.0	0.62	2.07	90.0	1.0	14.7	14.7	0.11	0.56
DOAS 3	STAIR D SD02	CMTA - Space: General / Stairwell	226.0	2,561.3	4.95	55.0	0.65	3.04	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	STIAR D SD03	CMTA - Space: General / Stairwell	226.0	2,523.6	4.89	55.0	0.64	3.03	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	STIAR D SD04	CMTA - Space: General / Stairwell	226.0	2,561.3	4.91	55.0	0.65	3.07	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	STAIR D SDO5	CMTA - Space: General / Stairwell	226.0	2,561.3	4.94	55.0	0.65	3.46	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	STAIR D SD01	CMTA - Space: General / Stairwell	228.5	3,046.0	3.96	55.0	0.52	3.16	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 3	FLEX STUDY 2337	CMTA - Space: Office / Small Conference	237.7	2,693.9	9.39	55.0	0.66	8.65	90.0	2.0	69.5	34.7	0.29	1.55
DOAS 3	RA 2335	CMTA - Space: Higher Ed / Dormitory	138.5	1,570.2	3.20	55.0	0.62	1.82	90.0	1.0	14.7	14.7	0.11	0.56
DOAS 3	FLEX STUDY 1337	CMTA - Space: Office / Small Conference	244.8	3,263.6	10.05	55.0	0.60	10.61	90.0	2.0	71.5	35.8	0.29	1.32
DOAS 3	RA 1335	CMTA - Space: Higher Ed / Dormitory	130.6	1,741.9	2.60	55.0	0.52	1.97	90.0	1.0	13.9	13.9	0.11	0.48
DOAS 3	CORRIDOR C3301	CMTA - Space: General / Corridor	270.1	3,060.8	4.68	55.0	0.62	3.64	90.0	0.0	16.2	0.0	0.06	0.32
DOAS 3	CORRIDOR C3200	CMTA - Space: General / Corridor	1,263.5	14,319.1	15.44	55.0	2.84	2.81	90.0	0.0	75.8	0.0	0.06	0.32
DOAS 3	CORRIDOR C4200	CMTA - Space: General / Corridor	1,100.0	12,466.2	13.55	55.0	2.46	2.84	90.0	0.0	66.0	0.0	0.06	0.32

Zone group	Room	Template	Floor area	Volume	Cooling design load with oversizing	Cooling supply air temperature	Design latent cooling load with oversizing	Heating design load with oversizing	Heating supply air temperature	Design occupancy	Required minimum ventilation airflow			
LEARNING	LEARNING COMMONS		(ft^2)	(ft^3)	(kBtu/h)	(°F)	(kBtu/h)	(kBtu/h)	(°F)	(People)	(cfm)	(cfm/person)	(cfm/ft^2)	(ACH)
COMMONS	1210	CMTA - Space: General / Corridor	2,406.3	57,494.3	77.54	55.0	12.52	69.45	90.0	0.0	144.4	0.0	0.06	0.15

Zone group	Room	Template	Floor area	Volume	Cooling design load with oversizing	Cooling supply air temperature	Design latent cooling load with oversizing	Heating design load with oversizing	Heating supply air temperature	Design occupancy	Required minimum ventilation airflow			
			(ft^2)	(ft^3)	(kBtu/h)	(°F)	(kBtu/h)	(kBtu/h)	(°F)	(People)	(cfm)	(cfm/person)	(cfm/ft^2)	(ACH)
DOAS 4	POD LOUNGE 3117	CMTA - Space: Office / Break Room	248.8	2,819.2	13.74	55.0	1.71	11.74	90.0	7.0	87.6	12.5	0.35	1.86
DOAS 4	DOUBLE 3115	CMTA - Space: Higher Ed / Dormitory	181.6	2,058.6	3.85	55.0	0.96	2.13	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 4	BATH 3103	CMTA - Space: K-12 / Restroom	254.0	2,878.6	1.64	55.0	0.36	1.50	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	DOUBLE 3105	CMTA - Space: Higher Ed / Dormitory	182.6	2,069.4	3.67	55.0	0.97	1.73	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 3107	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.4	3.60	55.0	0.97	1.75	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 3109	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.4	3.59	55.0	0.97	1.75	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 3111	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.5	3.59	55.0	0.97	1.75	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 3113	CMTA - Space: Higher Ed / Dormitory	174.7	1,979.5	3.53	55.0	0.94	1.74	90.0	2.0	18.6	9.3	0.11	0.56
DOAS 4	DOUBLE 3110	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.50	55.0	0.97	1.66	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	IDF 3118	CMTA - Space: General / Elec_Mech	135.1	1,531.2	1.95	55.0	0.37	0.22	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	MECH/ELEC 3112	CMTA - Space: General / Computer Room	104.2	1,180.9	7.31	55.0	0.33	0.27	90.0	0.9	21.8	23.5	0.21	1.11
DOAS 4	BATH 3102	CMTA - Space: K-12 / Restroom	252.1	2,857.3	1.83	55.0	0.35	1.85	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	DOUBLE 3104	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.61	55.0	0.97	1.73	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 3106	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.52	55.0	0.97	1.74	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 3108	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.47	55.0	0.97	1.73	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	RA 3101	CMTA - Space: Higher Ed / Dormitory	131.0	1,484.2	3.17	55.0	0.60	1.81	90.0	1.0	13.9	13.9	0.11	0.56
DOAS 4	POD LOUNGE 4117	CMTA - Space: Office / Break Room	248.8	2,819.2	13.78	55.0	1.71	11.93	90.0	7.0	87.6	12.5	0.35	1.86
DOAS 4	POD LOUNGE 5117	CMTA - Space: Office / Break Room	248.8	2,819.2	14.17	55.0	1.71	12.28	90.0	7.0	87.6	12.5	0.35	1.86
DOAS 4	DOUBLE 4115	CMTA - Space: Higher Ed / Dormitory	181.6	2,058.6	3.85	55.0	0.96	2.15	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 4	DOUBLE 5115	CMTA - Space: Higher Ed / Dormitory	181.6	2,058.6	3.98	55.0	0.96	2.47	90.0	2.0	19.3	9.7	0.11	0.56
DOAS 4	BATH 4103	CMTA - Space: K-12 / Restroom	254.0	2,878.6	1.68	55.0	0.37	1.53	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	BATH 5103	CMTA - Space: K-12 / Restroom	254.0	2,878.6	1.64	55.0	0.43	1.97	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	DOUBLE 4105	CMTA - Space: Higher Ed / Dormitory	182.6	2,069.4	3.67	55.0	0.97	1.74	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5105	CMTA - Space: Higher Ed / Dormitory	182.6	2,069.4	3.80	55.0	0.97	2.06	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 4107	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.4	3.60	55.0	0.97	1.76	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5107	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.4	3.72	55.0	0.97	2.09	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 4109	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.4	3.59	55.0	0.97	1.76	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5109	CMTA - Space: Higher Ed / Dormitory	182.4	2,067.4	3.71	55.0	0.97	2.09	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 4111	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.5	3.59	55.0	0.97	1.77	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5111	CMTA - Space: Higher Ed / Dormitory	182.3	2,066.5	3.72	55.0	0.97	2.09	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 4113	CMTA - Space: Higher Ed / Dormitory	174.7	1,979.5	3.54	55.0	0.94	1.75	90.0	2.0	18.6	9.3	0.11	0.56
DOAS 4	DOUBLE 5113	CMTA - Space: Higher Ed / Dormitory	174.7	1,979.5	3.65	55.0	0.94	2.07	90.0	2.0	18.6	9.3	0.11	0.56
DOAS 4	DOUBLE 4110	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.51	55.0	0.97	1.68	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5110	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.56	55.0	0.97	2.01	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	IDF 4118	CMTA - Space: General / Elec_Mech	135.1	1,531.2	1.96	55.0	0.37	0.23	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	IDF 5118	CMTA - Space: General / Elec_Mech	135.1	1,531.2	1.90	55.0	0.39	0.49	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	MECH/ELEC 4112	CMTA - Space: General / Computer Room	104.2	1,180.9	7.32	55.0	0.33	0.27	90.0	0.9	21.8	23.5	0.21	1.11
DOAS 4	MECH/ELEC 5112	CMTA - Space: General / Computer Room	104.2	1,180.9	7.17	55.0	0.33	0.48	90.0	0.9	21.8	23.5	0.21	1.11
DOAS 4	BATH 4102	CMTA - Space: K-12 / Restroom	252.1	2,857.3	1.72	55.0	0.36	1.60	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	BATH 5102	CMTA - Space: K-12 / Restroom	252.1	2,857.3	2.14	55.0	0.41	2.33	90.0	0.0	0.0	0.0	0.00	0.00
DOAS 4	DOUBLE 4104	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.63	55.0	0.97	1.73	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5104	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.66	55.0	0.97	2.07	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 4106	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.54	55.0	0.97	1.75	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5106	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.57	55.0	0.97	2.08	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 4108	CMTA - Space: Higher Ed / Dormitory	182.5	2,068.0	3.52	55.0	0.97	1.75	90.0	2.0	19.4	9.7	0.11	0.56
DOAS 4	DOUBLE 5108	CMTA - Space: Higher Ed / D



1 SHAFT A SECTION VIEW 1/4" = 1'-0"

2 SHAFT B SECTION VIEW 1/4" = 1'-0"

3 SHAFT C SECTION VIEW 1/4" = 1'-0"

4 SHAFT D SECTION VIEW 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

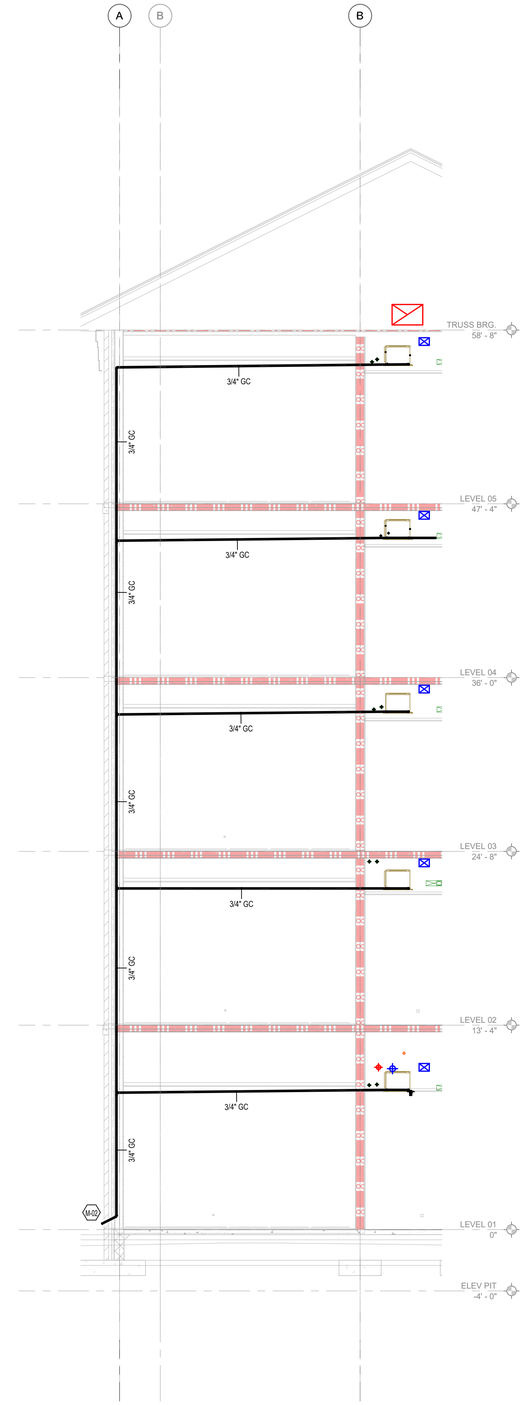
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL SYSTEM SECTION VIEWS

SHEET NUMBER
M501

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1 CONDENSATE RISER SECTION

0 0.5 1' 2' 4' 8' 12' 16'
1/4" = 1'-0"

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PROJECT NAME
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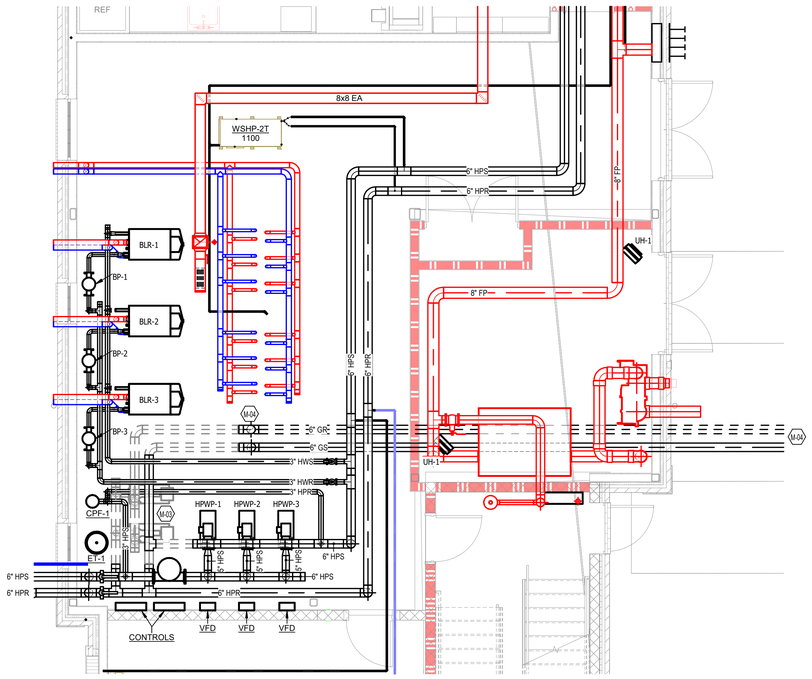
UNC WILMINGTON, NC

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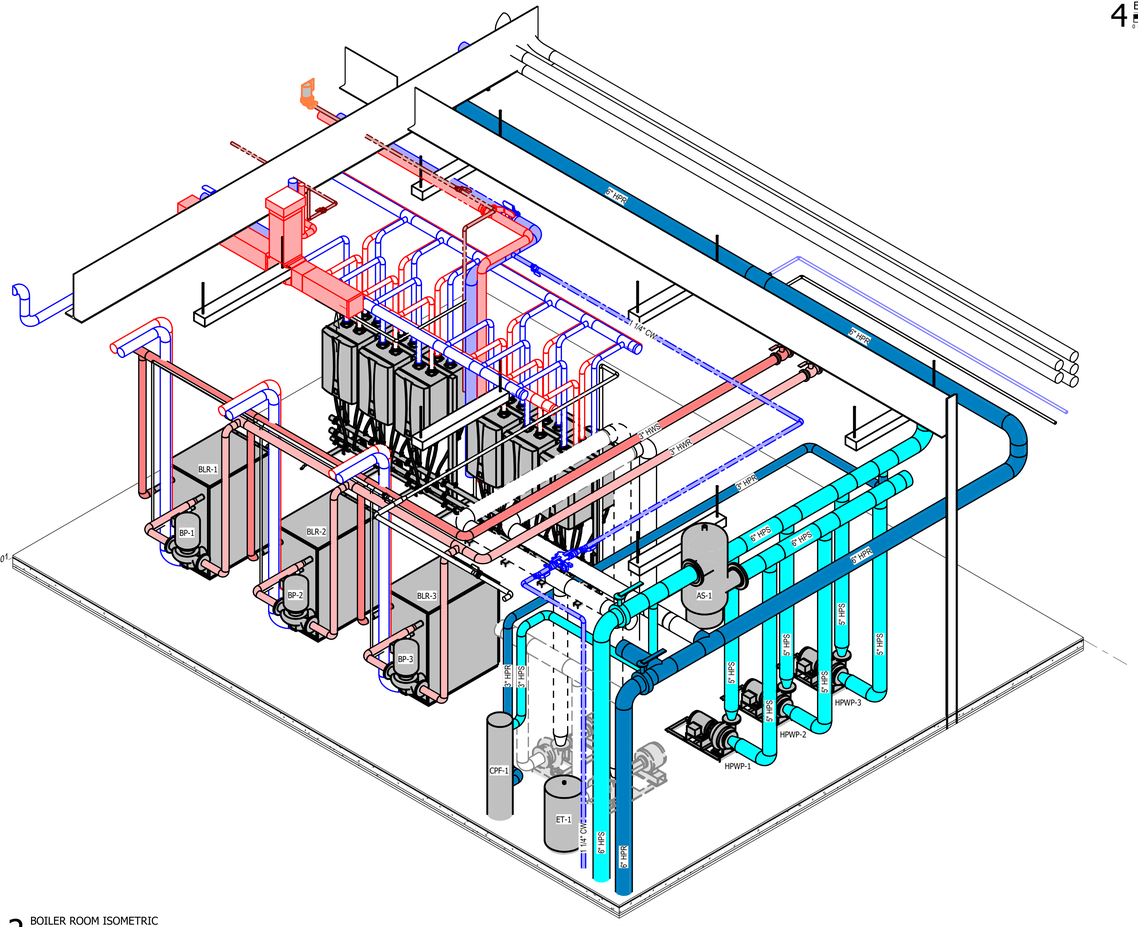
SHEET TITLE
MECHANICAL SYSTEM SECTION VIEWS

SHEET NUMBER
M502

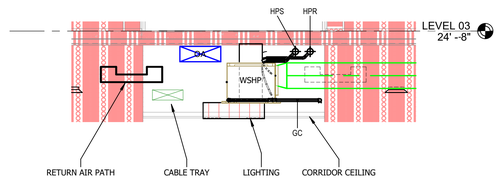
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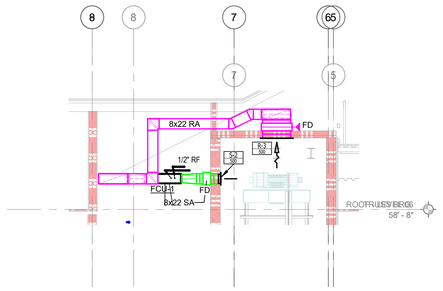
1 ENLARGED MECHANICAL ROOM



2 BOILER ROOM ISOMETRIC



3 TYPICAL CORRIDOR SECTION - 2ND THROUGH 5TH FLOORS



4 ELEVATOR COOLING SECTION

SHEET KEYED NOTES

M-03 FUTURE PUMPS AND PIPING FOR GEOTHERMAL WELLFIELD. TO BE INSTALLED AT A FUTURE DATE.

M-04 INSTALL UNDERGROUND PIPING FROM MECHANICAL ROOM TO BELOW GRADE BLIND FLANGES FOR FUTURE GEOTHERMAL SYSTEM. CAP AND SEAL PIPING FROM BOTH ENDS BEFORE BACKFILLING.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

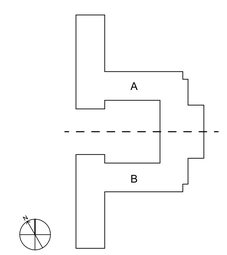
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR: COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE: 01.15.2026

REVISIONS

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PROJECT TEAM

PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: LILY ALACHNOWICZ

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

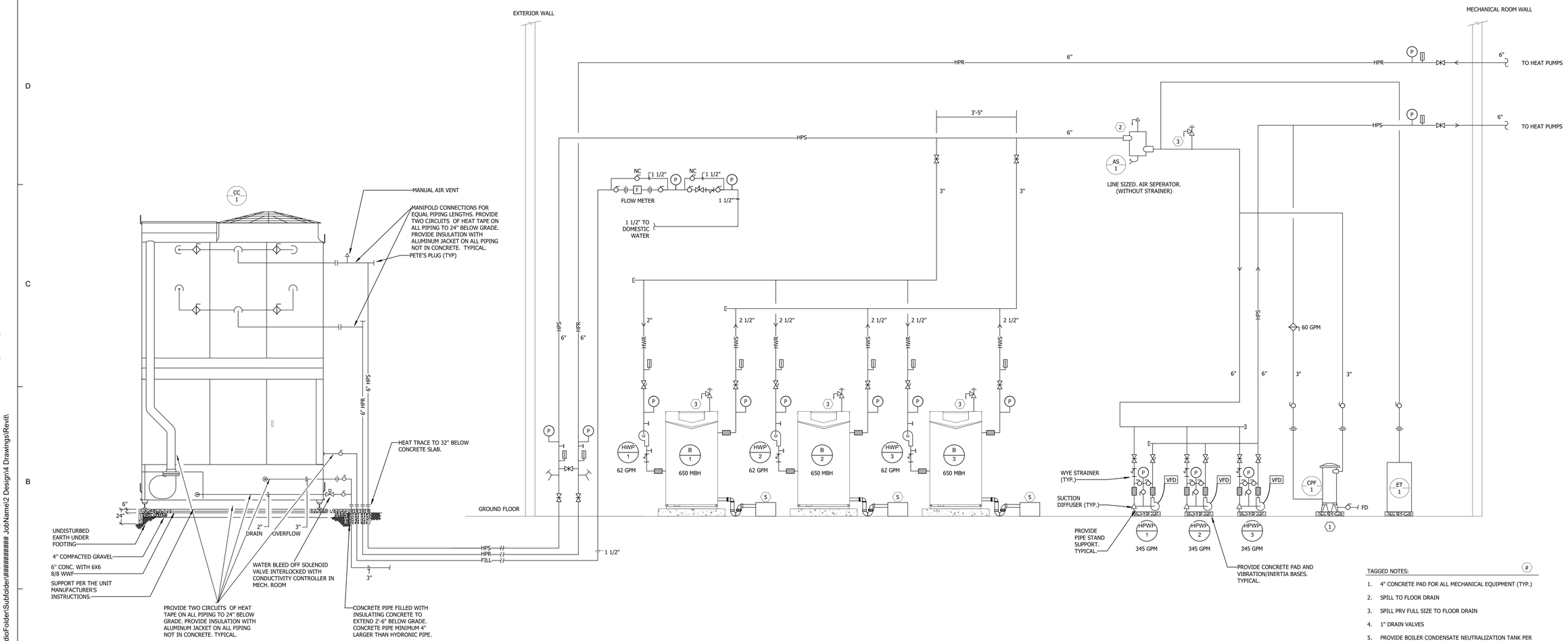
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PROJECT NO.: 514.23018.00

SHEET TITLE: ENLARGED PLANS

SHEET NUMBER: M601

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TAGGED NOTES: (#)

1. 4" CONCRETE PAD FOR ALL MECHANICAL EQUIPMENT (TYP.)
2. SPILL TO FLOOR DRAIN
3. SPILL PRV FULL SIZE TO FLOOR DRAIN
4. 1" DRAIN VALVES
5. PROVIDE BOILER CONDENSATE NEUTRALIZATION TANK PER MANUFACTURERS RECOMMENDATION. PIPE OUTLET TO FLOOR DRAIN

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DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

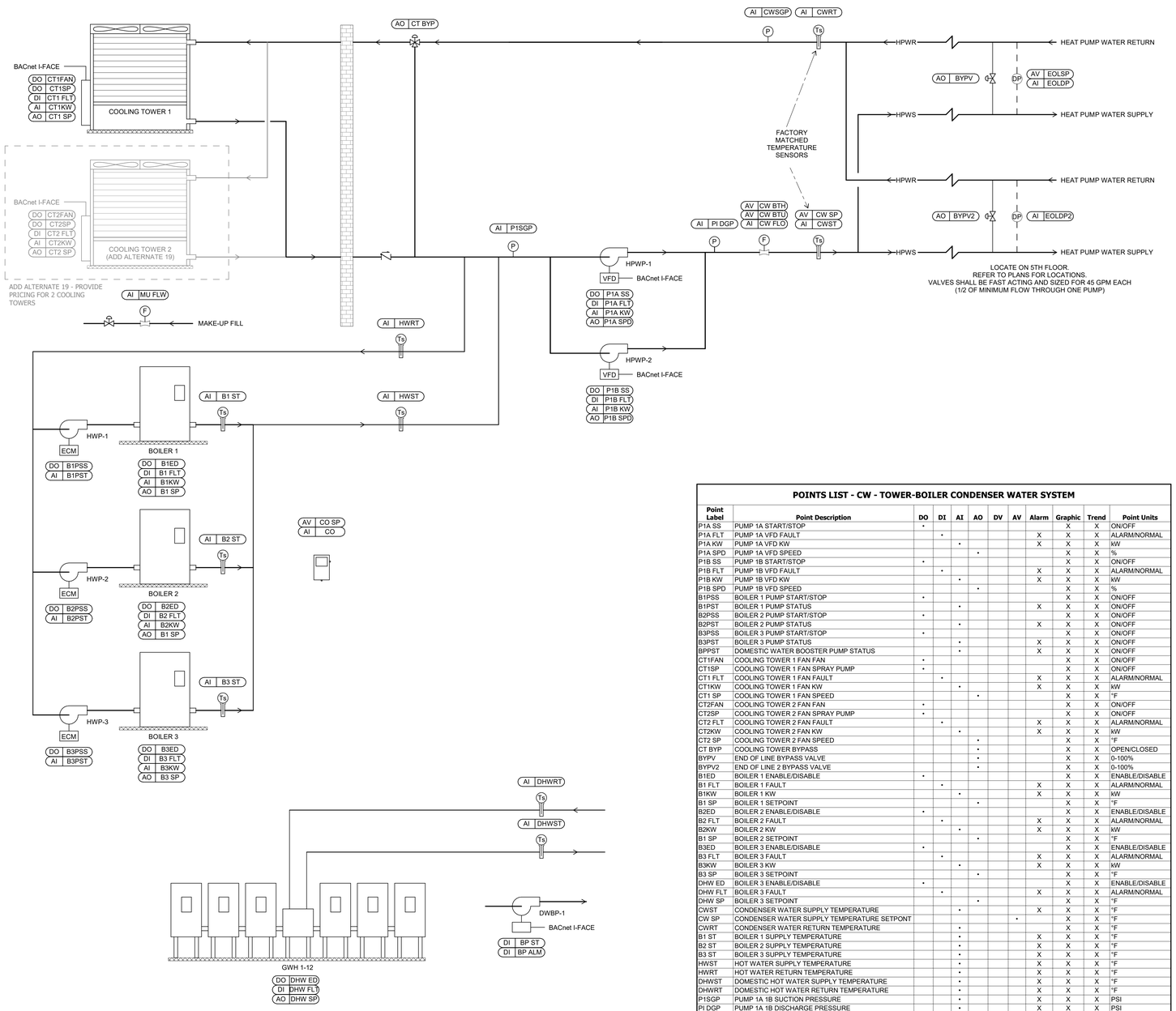
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PROJECT NO.
514.23018.00

SHEET TITLE
HYDRONIC PIPING SCHEMATIC DIAGRAM

SHEET NUMBER
M701

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1 HEAT PUMP WATER LOOP
NOT TO SCALE

POINTS LIST - CW - TOWER-BOILER CONDENSER WATER SYSTEM

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
P1A SS	PUMP 1A START/STOP	•							X	X	ON/OFF
P1A FLT	PUMP 1A VFD FAULT		•					X	X	X	ALARM/NORMAL
P1A KW	PUMP 1A VFD KW			•				X	X	X	kW
P1A SPD	PUMP 1A VFD SPEED				•				X	X	%
P1B SS	PUMP 1B START/STOP	•							X	X	ON/OFF
P1B FLT	PUMP 1B VFD FAULT		•					X	X	X	ALARM/NORMAL
P1B KW	PUMP 1B VFD KW			•				X	X	X	kW
P1B SPD	PUMP 1B VFD SPEED				•				X	X	%
B1PSS	BOILER 1 PUMP START/STOP	•							X	X	ON/OFF
B1PST	BOILER 1 PUMP STATUS			•				X	X	X	ON/OFF
B2PSS	BOILER 2 PUMP START/STOP	•							X	X	ON/OFF
B2PST	BOILER 2 PUMP STATUS			•				X	X	X	ON/OFF
B3PSS	BOILER 3 PUMP START/STOP	•							X	X	ON/OFF
B3PST	BOILER 3 PUMP STATUS			•				X	X	X	ON/OFF
BPPST	DOMESTIC WATER BOOSTER PUMP STATUS			•				X	X	X	ON/OFF
CT1FAN	COOLING TOWER 1 FAN FAN	•							X	X	ON/OFF
CT1SP	COOLING TOWER 1 FAN SPRAY PUMP	•							X	X	ON/OFF
CT1 FLT	COOLING TOWER 1 FAN FAULT		•					X	X	X	ALARM/NORMAL
CT1KW	COOLING TOWER 1 FAN KW			•				X	X	X	kW
CT1 SP	COOLING TOWER 1 FAN SPEED				•				X	X	°F
CT2FAN	COOLING TOWER 2 FAN FAN	•							X	X	ON/OFF
CT2SP	COOLING TOWER 2 FAN SPRAY PUMP	•							X	X	ON/OFF
CT2 FLT	COOLING TOWER 2 FAN FAULT		•					X	X	X	ALARM/NORMAL
CT2KW	COOLING TOWER 2 FAN KW			•				X	X	X	kW
CT2 SP	COOLING TOWER 2 FAN SPEED				•				X	X	°F
CT BYP	COOLING TOWER BYPASS				•				X	X	OPEN/CLOSED
BYPV	END OF LINE BYPASS VALVE				•				X	X	0-100%
BYPV2	END OF LINE 2 BYPASS VALVE				•				X	X	0-100%
B1ED	BOILER 1 ENABLE/DISABLE	•							X	X	ENABLE/DISABLE
B1 FLT	BOILER 1 FAULT		•					X	X	X	ALARM/NORMAL
B1KW	BOILER 1 KW			•				X	X	X	kW
B1 SP	BOILER 1 SETPOINT				•				X	X	°F
B2ED	BOILER 2 ENABLE/DISABLE	•							X	X	ENABLE/DISABLE
B2 FLT	BOILER 2 FAULT		•					X	X	X	ALARM/NORMAL
B2KW	BOILER 2 KW			•				X	X	X	kW
B1 SP	BOILER 2 SETPOINT				•				X	X	°F
B3ED	BOILER 3 ENABLE/DISABLE	•							X	X	ENABLE/DISABLE
B3 FLT	BOILER 3 FAULT		•					X	X	X	ALARM/NORMAL
B3KW	BOILER 3 KW			•				X	X	X	kW
B3 SP	BOILER 3 SETPOINT				•				X	X	°F
DHW ED	BOILER 3 ENABLE/DISABLE	•							X	X	ENABLE/DISABLE
DHW FLT	BOILER 3 FAULT		•					X	X	X	ALARM/NORMAL
DHW SP	BOILER 3 SETPOINT				•				X	X	°F
CWST	CONDENSER WATER SUPPLY TEMPERATURE			•				X	X	X	°F
CW SP	CONDENSER WATER SUPPLY TEMPERATURE SETPOINT						•		X	X	°F
CWRT	CONDENSER WATER RETURN TEMPERATURE			•					X	X	°F
B1 ST	BOILER 1 SUPPLY TEMPERATURE			•				X	X	X	°F
B2 ST	BOILER 2 SUPPLY TEMPERATURE			•				X	X	X	°F
B3 ST	BOILER 3 SUPPLY TEMPERATURE			•				X	X	X	°F
HWST	HOT WATER SUPPLY TEMPERATURE			•				X	X	X	°F
HWRT	HOT WATER RETURN TEMPERATURE			•				X	X	X	°F
DHWST	DOMESTIC HOT WATER SUPPLY TEMPERATURE			•				X	X	X	°F
DHWRT	DOMESTIC HOT WATER RETURN TEMPERATURE			•				X	X	X	°F
P1SGP	PUMP 1A 1B SUCTION PRESSURE			•				X	X	X	PSI
PI DGP	PUMP 1A 1B DISCHARGE PRESSURE			•				X	X	X	PSI
CWSGP	CONDENSER WATER SUPPLY PRESSURE			•				X	X	X	PSI
EOLDP	END OF LINE DIFFERENTIAL PRESSURE			•				X	X	X	PSI
EOLSP	END OF LINE DIFFERENTIAL PRESSURE SETPONT						•		X	X	PSI
EOLDP2	END OF LINE 2 DIFFERENTIAL PRESSURE			•				X	X	X	PSI
CW FLO	CW FLOW METER			•					X	X	GPM
CW BTU	CONDENSER WATER BTU CONSUMPTION						•		X	X	BTU
CW BTH	CONDENSER WATER BTU/HR DEMAND						•		X	X	BTU/HR
MU FLW	MAKE-UP WATER FLOW METER			•					X	X	GPM
CO SP	CO SETPOINT						•		X	X	PPM
CO	CARBON MONOXIDE			•				X	X	X	PPM

CONDENSER WATER SYSTEM
RUN CONDITIONS:
THE CONDENSER WATER PUMPS SHALL BE ENABLED WHENEVER:
- A DEFINABLE NUMBER OF COILS NEED FLOW.

TO PREVENT SHORT CYCLING, THE CONDENSER WATER PUMP SYSTEM SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE).

CONDENSER WATER DIFFERENTIAL PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE CONDENSER WATER DIFFERENTIAL PRESSURE AND MODULATE THE BUILDING CONDENSER WATER PUMP VFDS AND MINIMUM FLOW BYPASS VALVE(S) IN SEQUENCE TO MAINTAIN ITS CONDENSER WATER DIFFERENTIAL PRESSURE SETPOINT.

THE TWO CONDENSER WATER PUMPS SHALL OPERATE IN A LEAD/LAG FASHION. ON DROPPING HOT WATER DIFFERENTIAL PRESSURE, THE VFDS SHALL STAGE ON AND RUN TO MAINTAIN SETPOINT AS FOLLOWS:
- THE LEAD PUMP SHALL RUN FIRST.
- ON FAILURE OF THE LEAD PUMP, THE LAG PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.
- THE CONTROLLER SHALL MODULATE THE LEAD VFD TO MAINTAIN SETPOINT.
- IF THE LEAD VFD SPEED IS GREATER THAN 50% (ADJ.), THE LAG VFD SHALL STAGE ON.
- THE LAG VFD SHALL RAMP UP TO MATCH THE LEAD VFD SPEED AND THEN RUN IN UNISON WITH THE LEAD VFD TO MAINTAIN SETPOINT.

ON RISING CONDENSER WATER DIFFERENTIAL PRESSURE, THE VFDS SHALL STAGE OFF AS FOLLOWS:
- IF THE VFDS SPEED DROPS BACK TO 25% (ADJ.), THE LAG VFD SHALL STAGE OFF.
- THE LEAD VFD SHALL CONTINUE TO RUN TO MAINTAIN SETPOINT.
- IF THE LEAD VFD DROPS TO ITS MINIMUM SPEED 25% (ADJ.), THE MINIMUM FLOW BYPASS VALVE SHALL MODULATE TO MAINTAIN SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH CONDENSER WATER DIFFERENTIAL PRESSURE: IF THE CONDENSER WATER DIFFERENTIAL PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW CONDENSER WATER DIFFERENTIAL PRESSURE: IF THE CONDENSER WATER DIFFERENTIAL PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

LEAD/LAG VARIABLE VOLUME PUMP RUNTIME ENERGY REPORTING
THE CONTROLLER SHALL DETERMINE THE ENERGY DEMAND BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KW – INSTANTANEOUS ENERGY DEMAND
- EQUIP KWH – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS:
- KW_{PUMP1} = VFD$_{1}$%*3*(VOLTS*AMPS$_{1}$ * √PHASE*PF)/1000
- KW_{PUMP2} = VFD$_{2}$%*3*(VOLTS*AMPS$_{2}$ * √PHASE*PF)/1000
- KWH = $\sum_{RUN}$[(KW_{PUMP1}+ KW_{PUMP2}) * ((10 MIN) / (60 MIN/HR))]

WHERE:
VOLTS = EQUIPMENT SUPPLY VOLTAGE
AMPS = THE SUM OF ALL PUMP LOADS
VFD% = THE OUTPUT SPEED OF VFD
PHASE = 1 OR 3 PHASE
PF = POWER FACTOR, ASSUMED OR MEASURED

CONDENSER WATER SUPPLY TEMPERATURE - SETPOINT RESET:
THE CONDENSER WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BY THE FOLLOWING EQUATIONS:

- $CWSP_{RESET}$ = CHWST+A * (TONS/$TONS_{MAX}$)+B
- A= –63+(0.0053*CDD65) - (0.0087*WBDD55) + (1.67*WB) + (0.52*APPROACH) - (0.029*GPM/HP)
- B = 18-(0.0033*CDD65) + (0.0053*WBDD55) - (0.26*WB) + (0.15*APPROACH) - (0.014*GPM/HP)

WHERE:
- CWSPOPT: OPTIMIZED CONDENSER WATER SUPPLY TEMP SETPOINT
- CWSPBASE: CONDENSER WATER SUPPLY TEMP SETPOINT PRIOR TO MODIFICATIONS
- CDD65: 1,842 ANNUAL COOLING DEGREE DAYS @ 65°F BASE
- WBDD55 2,077 ANNUAL WET BULB DEGREE DAYS @ 55°F BASE
- WB 77.4 °F, DESIGN WET-BULB TEMPERATURE, ASHRAE 1%
- APPROACH: DESIGN TOWER LEAVING WATER TEMPERATURE MINUS WB
- TONS INSTANTANEOUS TONNAGE OF THE PLANT
- TONSMAX MAXIMUM RATED TONNAGE OF THE PLANT

COOLING TOWER BYPASS VALVE - CONDENSER WATER TEMPERATURE CONTROL:
THE CONTROLLER SHALL MEASURE THE CONDENSER WATER SUPPLY TEMPERATURE AND MODULATE THE BYPASS VALVE OPEN TO TOWER TO MAINTAIN SETPOINT.

COOLING TOWER SPRAY PUMP - CONDENSER WATER TEMPERATURE CONTROL:
WHEN THE BYPASS VALVE IS FULLY OPEN AND UPON RISING CONDENSER WATER SUPPLY TEMPERATURE, THE CONTROLLER SHALL START THE SPRAY PUMP TO MAINTAIN SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SPRAY PUMP FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SPRAY PUMP RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SPRAY PUMP RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

COOLING TOWER FAN - CONDENSER WATER TEMPERATURE CONTROL:
ON RISING CONDENSER WATER SUPPLY TEMPERATURE, THE CONTROLLER SHALL MODULATE THE FAN VFD TO MAINTAIN SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- FAN VFD FAULT.

AS THE CONDENSER WATER FALLS BELOW SETPOINT, THE REVERSE SEQUENCE SHALL OCCUR.

COOLING TOWER FAN RUNTIME ENERGY REPORTING
THE CONTROLLER SHALL DETERMINE THE ENERGY DEMAND BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KW – INSTANTANEOUS ENERGY DEMAND
- EQUIP KWH – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS:
- KW = ((VFD%$_{1}$+VFD%$_{2}$)/(200%))*3 * (VOLTS*AMPS* √PHASE*PF)/1000
- KWH= $\sum_{RUN}$(KW *((10 MIN) / (60 MIN/HR)))

WHERE:
- VOLTS = EQUIPMENT SUPPLY VOLTAGE
- AMPS = THE SUM OF ALL PUMP LOADS
- VFD%$_{1}$ = THE OUTPUT SPEED OF VFD$_{1}$
- VFD%$_{2}$ = THE OUTPUT SPEED OF VFD$_{2}$
- PHASE = 1 OR 3 PHASE
- PF = POWER FACTOR, ASSUMED OR MEASURED

BOILER CONTROL:
THE BOILER SYSTEM SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS. THE BOILER SYSTEM SHALL BE ENABLED TO RUN WHENEVER:
- AND OUTSIDE AIR TEMPERATURE IS LESS THAN 68°F (ADJ.).
- AND CONDENSER WATER TEMPERATURE IS BELOW SETPOINT BY 5°F (ADJ.)
- AND THE COOLING TOWER FAN IS OFF
- AND THE SPRAY PUMP IS OFF
- AND WATER IS BEING FULLY BYPASSED AROUND THE COOLING TOWER,

THE BOILER SYSTEM SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER OUTSIDE AIR TEMPERATURE IS LESS THAN 38°F (ADJ.).

BOILER LOOP WATER TEMPERATURE CONTROL:
THE CONTROLLER SHALL MEASURE THE LOOP WATER SUPPLY TEMPERATURE AND STAGE THE BOILER, ITS CIRCULATION PUMP AND HEATING STAGES ON IN SEQUENCE TO MAINTAIN SETPOINTS. THE BOILER SYSTEM SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

ON DROPPING LOOP WATER SUPPLY TEMPERATURE, THE BOILER AND ITS CIRCULATION PUMP SHALL STAGE ON AT THE SETPOINTS GIVEN BELOW. WHEN THE LOOP WATER SUPPLY TEMPERATURE RISES BACK ABOVE THE SETPOINTS BY THE DIFFERENTIALS LISTED, THE BOILER SHALL THEN STAGE OFF. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE FOLLOWING SETPOINTS ARE RECOMMENDED VALUES. ALL SETPOINTS SHALL BE FIELD ADJUSTED DURING THE COMMISSIONING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS.

THE BOILER AND CIRCULATION PUMP SHALL STAGE TO MAINTAIN SETPOINTS AS FOLLOWS:

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- BOILER RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- BOILER RUNTIME EXCEEDED: RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- LOW BOILER SUPPLY TEMP: IF THE BOILER SUPPLY TEMPERATURE IS LESS THAN 120°F (ADJ.).

CONDENSER WATER DEMAND MONITORING
THE CONTROLLER SHALL MONITOR THE CONDENSER WATER SUPPLY AND RETURN TEMPERATURES AND THE CONDENSER WATER FLOW METER. THE CONTROLLER SHALL CALCULATE AN INSTANTANEOUS BTU/HR DEMAND FOR ENERGY CONSUMPTION ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.
ALARMS SHALL BE GENERATED AS FOLLOWS:
- METER FAILURE: SENSOR READING INDICATES A LOSS OF SIGNAL.

PEAK DEMAND HISTORY:
THE CONTROLLER SHALL MONITOR AND RECORD THE PEAK (HIGH AND LOW) DEMAND READINGS FROM THE BTU METER. PEAK READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

USAGE HISTORY:
THE CONTROLLER SHALL MONITOR AND RECORD BTU METER READINGS SO AS TO PROVIDE AN ENERGY CONSUMPTION HISTORY. USAGE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

DEMAND LIMITING:
TO LOWER POWER DEMAND, THE HOT WATER SYSTEM SHALL AUTOMATICALLY RELAX WHEN A COMMAND IS RECEIVED FROM THE POWER MONITORING SYSTEM AS FOLLOWS:
- DEMAND LEVEL 1: A COMMAND WILL BE SENT TO THE PUMP VFD'S TO LIMIT THEIR OPERATION TO 95% OF CAPACITY.
- DEMAND LEVEL 2: A COMMAND WILL BE SENT TO THE PUMP VFD'S TO LIMIT THEIR OPERATION TO 90% OF CAPACITY.
- DEMAND LEVEL 3: A COMMAND WILL BE SENT TO THE PUMP VFD'S TO LIMIT THEIR OPERATION TO 80% OF CAPACITY.

THE PUMPS SHALL AUTOMATICALLY RETURN TO THEIR PREVIOUS SETTINGS WHEN THE FACILITY POWER DEMAND DROPS BELOW THE THRESHOLDS.

MAKE-UP WATER FILL VALVES
THE MAKE-UP WATER VALVE SHALL BE CONTROLLED BY THE COOLING TOWER CONTROLLER.

THE BAS CONTROLLER SHALL MONITOR THE MAKE-UP WATER FLOW METER AND SHALL RECORD THE VOLUME OF THE WATER ADDED TO THE SYSTEM AND SHALL ALARM IF THE VALVE IS OPEN FOR AN EXCESSIVE PERIOD OF TIME OR IF OPEN MORE THAN ONCE A WEEK.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH MAKE-UP FLOW - POSSIBLE WATER LEAK DETECTED: THE MAKE-UP WATER FLOW RATE IS GREATER THAN 5 GPM FOR 5 MINUTES (ADJ.)
- EXCESSIVE MAKE-UP VALVE OPERATION - POSSIBLE WATER LEAK DETECTED: THE MAKE-UP WATER VALVE HAS OPENED MORE THAN ONCE WITHIN THE PREVIOUS WEEK (ADJ.).

CONDENSER WATER SYSTEM DASHBOARD
THE INTENTION OF A CONDENSER WATER SYSTEM DASHBOARD IS TO DISPLAY ON A SINGLE SCREEN KEY PERFORMANCE INDICATORS (KPI) FOR AN ENTIRE CONDENSER WATER SYSTEM.

IN ADDITION TO THE STANDARD CONDENSER WATER GRAPHIC, PROVIDE A CONDENSER WATER SYSTEM DASHBOARD GRAPHIC TO DISPLAY INFORMATION ABOUT THE COOLING COILS IN REAL TIME. THE DASHBOARD SHALL DISPLAY HEAT PUMP DATA IN A GRAPHICAL FORMAT. TABULAR DATA SHALL NOT BE ACCEPTABLE. THE DASHBOARDS SHALL DISPLAY THE FOLLOWING INFORMATION AT A MINIMUM:
- CONDENSER WATER SUPPLY TEMPERATURE AND SETPOINT
- CONDENSER WATER PUMP(S) STATUS, CONDENSER WATER DIFFERENTIAL PRESSURE AND SETPOINT
- EACH CONDENSER COIL VALVE POSITION, EACH CONDENSER COIL LEAVING AIR TEMPERATURE, EACH COOLING COIL LEAVING WATER TEMPERATURE IF AVAILABLE
- LINKS TO EACH PIECE OF EQUIPMENT

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

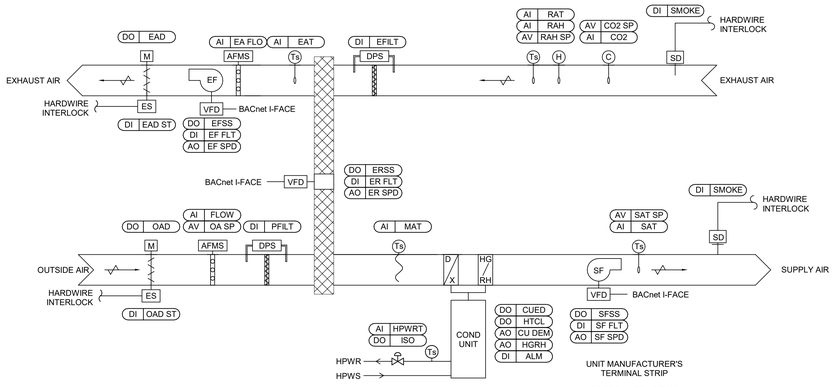
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
CONTROLS

SHEET NUMBER
M801

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POINTS LIST - 100% OA UNIT w/ WATER-TO-WATER HP

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
SFSS	SUPPLY FAN START/STOP	•							X	X	ON/OFF
SF FLT	SUPPLY FAN VFD FAULT		•					X	X	X	ALARM/NORMAL
SF SPD	SUPPLY FAN VFD SPEED				•				X	X	%
EFSS	EXHAUST FAN START/STOP	•							X	X	ON/OFF
EF FLT	EXHAUST FAN VFD FAULT		•					X	X	X	ALARM/NORMAL
EF SPD	EXHAUST FAN VFD SPEED				•				X	X	%
ISO	HEAT PUMP ISOLATION VALVE	•							X	X	% OPEN
HPWRT	HEAT PUMP WATER RETURN TEMPERATURE			•				X	X	X	°F
CUED	CONDENSING UNIT ENABLE	•							X	X	ENABLE/DISABLE
HTCL	HEATING/COOLING MODE	•							X	X	HEATING/COOLING
CU DEM	CONDENSING UNIT DEMAND				•				X	X	0-100%
ALM	CONDENSING UNIT ALARM		•					X	X	X	ALARM/NORMAL
HGRH	HOT GAS REHEAT DEMAND				•				X	X	0-100%
ERSS	ENERGY RECOVERY WHEEL START/STOP	•							X	X	ON/OFF
ER FLT	ENERGY RECOVERY WHEEL VFD FAULT		•					X	X	X	ALARM/NORMAL
ER SPD	ENERGY RECOVERY WHEEL VFD SPEED				•				X	X	%
OAD	OUTSIDE AIR DAMPER	•							X	X	OPEN/CLOSED
EAD	EXHAUST AIR DAMPER	•							X	X	OPEN/CLOSED
EAD ST	EXHAUST AIR DAMPER STATUS		•					X	X	X	OPEN/CLOSED
FLOW	OUTSIDE AIR FLOW STATION			•				X	X	X	CFM
OA SP	MIN OUTSIDE AIR FLOW SETPOINT						•		X	X	CFM
EA FLO	EXHAUST AIR FLOW STATION			•				X	X	X	kW
OAD	OUTSIDE/EXHAUST AIR DAMPER				•				X	X	% OPEN
OAD ST	OUTSIDE AIR DAMPER STATUS		•					X	X	X	OPEN/CLOSED
SAT	SUPPLY AIR TEMPERATURE			•				X	X	X	°F
SAT SP	SUPPLY AIR TEMPERATURE SETPOINT						•		X	X	°F
MAT	MIXED AIR TEMPERATURE			•				X	X	X	°F
RAT	RETURN AIR TEMPERATURE			•				X	X	X	°F
EAT	EXHAUST AIR TEMPERATURE			•				X	X	X	°F
RAH	RETURN AIR HUMIDITY			•				X	X	X	% RH
RAH SP	RETURN AIR HUMIDITY SETPOINT						•		X	X	% RH
CO2	RETURN AIR CO2			•				X	X	X	PPM
CO2 SP	RETURN CO2 SETPOINT						•		X	X	PPM
SMOKE	SMOKE DETECTOR		•					X	X	X	ALARM/NORMAL
PFILT	PRE-FILTER STATUS		•					X	X	X	DIRTY/CLEAN
EFILT	EXHAUST FILTER STATUS		•					X	X	X	DIRTY/CLEAN
SMOKE	SMOKE DETECTOR		•					X	X	X	ALARM/NORMAL

1 SINGLE ZONE AIR HANDLING UNITS
NOT TO SCALE

DEDICATED OUTSIDE AIR SYSTEM

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL BE ENABLED WHENEVER THE BUILDING IS SCHEDULED TO BE OCCUPIED.

TO PREVENT SHORT CYCLING, THE SYSTEM SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE).

FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SMOKE DETECTOR STATUS.

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE SUPPLY FAN SHALL START ONLY AFTER THE DAMPER STATUS HAS PROVEN THE DAMPER IS OPEN. THE OUTSIDE AIR DAMPER SHALL CLOSE 45EC (ADJ.) AFTER THE SUPPLY FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- OUTSIDE AIR DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- OUTSIDE AIR DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

SUPPLY AIR DUCT STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 30% (ADJ.). THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED ON ZONE COOLING REQUIREMENTS.
- THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.50N H2O (ADJ.).
- AS AIRFLOW DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 2.0 IN H2O (ADJ.).
- AS AIRFLOW DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 0.75 IN H2O (ADJ.) .

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.
- SUPPLY FAN VFD FAULT.

EXHAUST FAN:
THE EXHAUST FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- EXHAUST FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- EXHAUST FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
- EXHAUST FAN VFD FAULT.

SUPPLY FAN TRACKING:
THE CONTROLLER SHALL MEASURE THE EXHAUST AIR FLOW AND MODULATE THE EXHAUST FAN VFD SPEED TO MAINTAIN A EXHAUST AIR CFM SETPOINT OF 95% (ADJ.) OF THE MEASURED SUPPLY AIR FLOW. THE EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW 20% (ADJ.).
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH EXHAUST AIR FLOW: IF THE EXHAUST AIR FLOW IS GREATER THAN THE SUPPLY AIR FLOW FOR LONGER THAN 5 MINUTES (ADJ.)
- LOW EXHAUST AIR FLOW: IF THE EXHAUST AIR FLOW IS 25% (ADJ.) LESS THAN SETPOINT.

SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING REQUIREMENTS AND RETURN AIR HUMIDITY..

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:
- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 60°F (ADJ.).
- AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 55°F (ADJ.).
- AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 72°F (ADJ.).
- IF RETURN AIR HUMIDITY RISES ABOVE 50% RH (ADJ.) THE SETPOINT SHALL BE OVERRIDDEN TO 55°F (ADJ.), AND DEHUMIDIFICATION MODE SHALL BE ENABLED.

SUPPLY AIR TEMPERATURE SETPOINT - FIXED:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A FIXED SUPPLY AIR TEMPERATURE SETPOINT OF 60°F (ADJ.).

HEAT RECOVERY WHEEL - VARIABLE SPEED:
THE CONTROLLER SHALL RUN THE HEAT RECOVERY WHEEL FOR ENERGY RECOVERY AS FOLLOWS.

COOLING RECOVERY MODE:
THE CONTROLLER SHALL MEASURE THE HEAT WHEEL DISCHARGE AIR TEMPERATURE AND MODULATE THE HEAT WHEEL TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE UNIT SUPPLY AIR TEMPERATURE SETPOINT. THE HEAT WHEEL SHALL RUN FOR COOL RECOVERY WHENEVER:
- THE UNIT RETURN AIR TEMPERATURE IS 5°F (ADJ.) OR MORE BELOW THE OUTSIDE AIR TEMPERATURE.
- AND THE SUPPLY FAN IS ON.

HEATING RECOVERY MODE:
THE CONTROLLER SHALL MEASURE THE HEAT WHEEL DISCHARGE AIR TEMPERATURE AND MODULATE THE HEAT WHEEL TO MAINTAIN A SETPOINT 2°F (ADJ.) GREATER THAN THE UNIT SUPPLY AIR TEMPERATURE SETPOINT. THE HEAT WHEEL SHALL RUN FOR HEAT RECOVERY WHENEVER:
- THE UNIT RETURN AIR TEMPERATURE IS 5°F (ADJ.) OR MORE ABOVE THE OUTSIDE AIR TEMPERATURE.
- AND THE SUPPLY FAN IS ON.

PERIODIC SELF-CLEANING:
THE HEAT WHEEL SHALL RUN FOR 10SEC (ADJ.) EVERY 4HR (ADJ.) THE UNIT RUNS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HEAT WHEEL ROTATION FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- HEAT WHEEL IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- HEAT WHEEL RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

HEATING AND COOLING – PACKAGED COMPRESSORS
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND UPON A CALL FOR HEATING OR COOLING, SHALL OPEN THE CONDENSER WATER ISOLATION VALVE AND THE CONDENSER WATER PUMP SHALL RUN. UPON PROOF OF FLOW, THE CONTROLLER SHALL ENABLE THE PACKAGED HEATING AND COOLING COMPRESSOR UNIT TO RUN IN ITS RESPECTIVE HEATING OR COOLING MODE. THE CONTROLLER SHALL CALCULATE A HEATING OR COOLING DEMAND AND SHALL SEND A CAPACITY SIGNAL TO THE MANUFACTURER'S CONTROLLER. ALL COMPRESSOR STAGING AND SAFETIES SHALL BE CONTROLLED BY THE UNIT MANUFACTURER'S CONTROLLER

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN SETPOINT BY 5°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN SETPOINT BY 5°F (ADJ.).

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND ENABLE THE HOT GAS REHEAT COIL TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW SETPOINT DEFINED ABOVE.

FILTER STATUS:
THE CONTROLLER SHALL MONITOR THE FILTER STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

DEMAND LIMITING:
TO LOWER POWER DEMAND, THE AHU SHALL AUTOMATICALLY RELAX WHEN A COMMAND IS RECEIVED FROM THE POWER MONITORING SYSTEM AS FOLLOWS:
- DEMAND LEVEL 1: A COMMAND WILL BE SENT TO THE FAN VFD'S TO LIMIT THEIR OPERATION TO 95% OF CAPACITY.
- DEMAND LEVEL 2: A COMMAND WILL BE SENT TO THE FAN VFD'S TO LIMIT THEIR OPERATION TO 80% OF CAPACITY.
- DEMAND LEVEL 3: A COMMAND WILL BE SENT TO THE FAN VFD'S TO LIMIT THEIR OPERATION TO 60% OF CAPACITY.

THE FANS SHALL AUTOMATICALLY RETURN TO THEIR PREVIOUS SETTINGS WHEN THE FACILITY POWER DEMAND DROPS BELOW THE THRESHOLDS.

MOTOR RUNTIME ENERGY REPORTING
THE CONTROLLER SHALL DETERMINE THE ENERGY DEMAND FOR EACH MOTOR BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KW – INSTANTANEOUS ENERGY DEMAND
- EQUIP KWH – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

IF DIRECT MEASUREMENT IS NOT AVAILABLE, VALUES ARE CALCULATED AS FOLLOWS:
- KW = VFD%*3*(VOLTS*AMPS* -(PHASE*PF))/1000
- KWH= $\sum_{MIN}$(KW *((10 MIN) / (60 MIN/HR)))

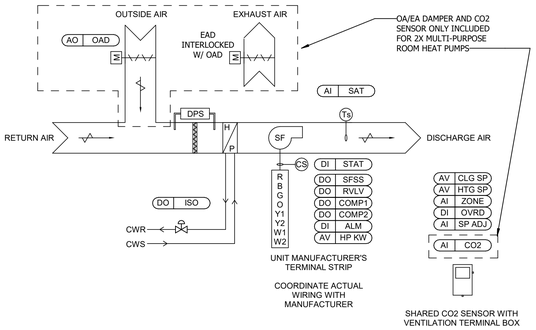
WHERE:
- VOLTS = EQUIPMENT SUPPLY VOLTAGE
- AMPS = THE SUM OF ALL FAN LOADS
- VFD% = THE OUTPUT SPEED OF THE VFD
- PHASE = 1 OR 3 PHASE
- PF = POWER FACTOR, FROM NAMEPLATE OR MEASURED

COIL ENERGY REPORTING (AIR-SIDE CALCULATION)
THE CONTROLLER SHALL DETERMINE THE ENERGY DEMAND FOR EACH COIL BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- ACTUAL RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KBTUHR – INSTANTANEOUS ENERGY DEMAND
- KBTU – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS IF THE DAT IS LESS THAN MAT:
- KBTUHR = [(VFD%*CFM*(MAT-DAT)*1.08)/1000] * (1/EF)
- KBTU = $\sum_{MIN}$(KBTUHR*((10 MIN)/(60 MIN/HR)))

WHERE:
- VFD% = FAN SPEED COMMAND SIGNAL (OR FEEDBACK)
- CFM = THE RATED FLOW OF THE FAN
- MAT = MIXED AIR TEMPERATURE
- DAT = DISCHARGE AIR TEMPERATURE
- EFF = EFFICIENCY OF THE PROCESS

INCLUDE ENERGY CALCULATIONS ONLY IF ALTERNATE 20 - FIELD INSTALLED CONTROLS IN INCLUDED IN SCOPE.



POINTS LIST - WATER SOURCE HEAT PUMP

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
SFSS	SUPPLY FAN START/STOP	•							X	X	ON/OFF
COMP1	COMPRESSOR 1 START/STOP	•							X	X	ON/OFF
COMP2	COMPRESSOR 2 START/STOP	•							X	X	ON/OFF
STAT	UNIT STATUS		•					X	X	X	ON/OFF
RVLV	REVERSING VALVE	•							X	X	HEATING/COOLING
ISO	CONDENSER WATER ISOLATION VALVE	•							X	X	OPEN/CLOSED
ALM	UNIT ALARM		•					X	X	X	ALARM/NORMAL
HP KW	HEAT PUMP kW					•			X	X	°F
SAT	SUPPLY AIR TEMPERATURE			•				X	X	X	°F
ZONE	ZONE TEMPERATURE			•				X	X	X	°F
OVRD	OCCUPANCY OVERRIDE		•					X	X	X	OCCUPIED/UNOCCUPIED
SP ADJ	SETPOINT ADJUST			•				X	X	X	°F
HTG SP	HEATING SETPOINT					•			X	X	°F
CLG SP	COOLING SETPOINT					•			X	X	°F
CO2	ZONE CO2			•				X	X	X	PPM

2 WATER SOURCE HEAT PUMPS
NOT TO SCALE

WATER SOURCE HEAT PUMP
RUN CONDITIONS - SCHEDULED:
THE CONTROLLER SHALL MONITOR ZONE TEMPERATURE IN EACH SPACE SERVED BY THIS UNIT AS SHOWN ON THE FLOORPLANS. THE OPERATOR SHALL HAVE THE OPTION TO CONTROL FOR AN AVERAGE OF ALL SPACES, OR THE SENSOR FURTHEST FROM SETPOINT. THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- STANDBY MODE: SCHEDULED TIMES WHEN THE FACILITY IS DEEMED TO BE LIGHTLY OCCUPIED (<25% CAPACITY). STANDBY MODE CAN ALSO BE ACTIVATED BY SPACE OCCUPANCY SENSORS DURING A REGULARLY SCHEDULED OCCUPIED TIME. DURING STANDBY MODE THE UNIT SHALL MAINTAIN
  - A 72°F (ADJ.) COOLING SETPOINT
  - A 68°F (ADJ.) HEATING SETPOINT
- UNOCCUPIED VENTILATION SETPOINTS
- OCCUPIED MODE: SCHEDULED TIMES WHEN THE FACILITY IS DEEMED TO BE FULLY OCCUPIED (>25% CAPACITY). THE UNIT SHALL MAINTAIN
  - A 72°F (ADJ.) COOLING SETPOINT
  - A 68°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 85°F (ADJ.) COOLING SETPOINT.
  - A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

DEMAND LIMITING - ZONE SETPOINT OPTIMIZATION:
TO LOWER POWER DEMAND, THE ZONE SETPOINTS SHALL AUTOMATICALLY RELAX WHEN A COMMAND IS RECEIVED FROM THE POWER MONITORING SYSTEM. THE AMOUNT OF RELAXATION SHALL BE INDIVIDUALLY CONFIGURABLE FOR EACH ZONE. THE ZONE SETPOINTS SHALL AUTOMATICALLY RETURN TO THEIR PREVIOUS SETTINGS WHEN THE FACILITY POWER DEMAND DROPS BELOW THE THRESHOLDS.

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

FAN:
THE FAN SHALL RUN WHEN HEATING OR COOLING IS REQUIRED AS SENSED BY THE ZONE TEMPERATURE SENSOR.
THE CONTROLLER SHALL MONITOR THE FAN STATUS.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

HEAT PUMP
UPON A CALL FOR HEATING OR COOLING, THE FIELD INSTALLED CONTROLLER SHALL OPEN THE CONDENSER WATER ISOLATION VALVE. AFTER A DELAY TO ALLOW THE VALVE ENOUGH TIME TO OPEN, THE HEAT PUMP SHALL BE INDEXED TO THE HEATING OR COOLING MODE, AND THE COMPRESSOR(S) SHALL BE STAGED TO MAINTAIN SETPOINT. THE UNIT SHALL OPERATE UNDER ITS OWN SAFETIES.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

MULTI-PURPOSE ROOM HEAT PUMPS VENTILATION DAMPERS
THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE ENABLED TO OPEN ONLY AFTER THE VENTILATION VAV BOXES HAVE OPENED FULLY. THE TWO EXTERIOR MULTI-PURPOSE ROOM HEAT PUMPS SHALL MODULATE THE OUTSIDE AIR AND EXHAUST AIR DAMPERS TO MAINTAIN SPACE CO2 BELOW SETPOINT OF 900 PPM (ADJ.). NOTE, THIS CONDITION IS ONLY EXPECTED TO OCCUR WHEN THE SPACE HAS BEEN CONFIGURED FOR HIGH DENSITY OCCUPANCY.

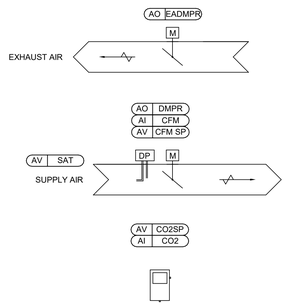
ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH ZONE CO2: IF THE ZONE CO2 IS GREATER THAN THE SETPOINT BY A 100 PPM (ADJ.).

HEAT PUMP ENERGY REPORTING
THE CONTROLLER SHALL DETERMINE THE ENERGY SAVED BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KW – INSTANTANEOUS ENERGY DEMAND
- EQUIP KWH – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS:
- KW_{FAN} = EC%*3*(VOLTS*AMPS* -(PHASE*PF))/1000
- KW_{COMP} = (VOLTS * (AMPS$_{COMP1}$ + AMPS$_{COMP2}$) * -(PHASE*PF))/1000
- KWH= $\sum_{MIN}$[(KW$_{FAN}$ + KW$_{COMP}$) *((10 MIN) / (60 MIN/HR))]

WHERE:
- VOLTS = EQUIPMENT SUPPLY VOLTAGE
- AMPS = THE SUM OF ALL ELECTRICAL LOADS (FANS, COMPRESSORS, ETC)
- EC% = THE OUTPUT SPEED OF THE FAN ECM
- PHASE = 1 OR 3 PHASE
- PF = POWER FACTOR, ASSUMED OR MEASURED

INCLUDE ENERGY CALCULATIONS ONLY IF ALTERNATE 20 - FIELD INSTALLED CONTROLS IN INCLUDED IN SCOPE.



POINTS LIST - MULTI-PURPOSE ROOM VENTILATION

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
CFM	SUPPLY AIR FLOW			•				X	X	X	CFM
CFM SP	AIR FLOW SETPOINT					•			X	X	CFM
DMPR	ZONE DAMPER				•				X	X	% OPEN
EADMPR	EXHAUST AIR DAMPER				•				X	X	% OPEN
SAT	AHU SUPPLY AIR TEMPERATURE					•			X	X	°F
CO2SP	CO2 SETPOINT					•			X	X	PPM
CO2	ZONE CO2			•				X	X	X	PPM

VARIABLE VOLUME – VENTILATION TERMINAL UNIT

MINIMUM VENTILATION ON CARBON DIOXIDE (CO2) CONCENTRATION:
WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL MEASURE THE ZONE CO2 CONCENTRATION AND MODULATE THE ZONE DAMPER BETWEEN ITS MINIMUM AND MAXIMUM SETPOINTS ON RISING CO2 CONCENTRATIONS, OVERRIDING NORMAL DAMPER OPERATION TO MAINTAIN A CO2 SETPOINT OF NOT MORE THAN 900 PPM (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE CARBON DIOXIDE CONCENTRATION: IF THE ZONE CO2 CONCENTRATION IS GREATER THAN 1000 PPM (ADJ.).

EXHAUST AIR DAMPER
THE EXHAUST AIR DAMPER SHALL MODULATE IN PROPORTION TO THE SUPPLY AIR DAMPER ON A 5-POINT CURVE SET DURING BALANCING. FOR EXAMPLE, THE TAB CONTRACTOR SHALL DETERMINE THE EXHAUST AIRFLOW AT 20%, 40%, 60%, 80%, AND 100% DAMPER POSITION. THESE VALUES SHALL BE USED TO SET THE DAMPER COMMAND TO MATCH THE MEASURED SUPPLY AIR FLOW.

ENERGY REPORTING (AIR-SIDE CALCULATION)
THE CONTROLLER SHALL DETERMINE THE ENERGY DEMAND BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- KBTUHR – INSTANTANEOUS ENERGY DEMAND
- KBTU – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS:
- kBtu/hr=(CFM*(ZONE-SAT)*1.08)/1000
- kBtu= $\sum_{MIN}$ (kBtu/hr*((10 min)/(60 min/hr)))

WHERE:
- CFM = THE MEASURED PRIMARY AIR FLOW
- ZONE = ZONE TEMPERATURE
- SAT = AIR HANDLING UNIT SUPPLY AIR TEMPERATURE

INCLUDE ENERGY CALCULATIONS ONLY IF ALTERNATE 20 - FIELD INSTALLED CONTROLS IN INCLUDED IN SCOPE.

3 MULTI-PURPOSE ROOM VENTILATION
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR:
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE:
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

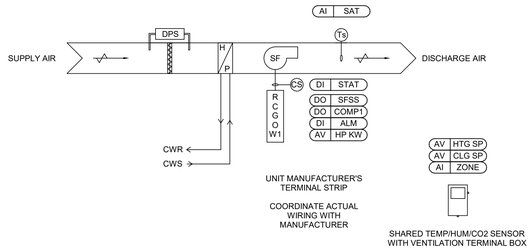
SHEET TITLE
CONTROLS

SHEET NUMBER
M802

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POINTS LIST - CONSOLE WATER SOURCE HEAT PUMP

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
SFSS	SUPPLY FAN START/STOP	•							X	X	ON/OFF
COMP1	SUPPLY FAN START/STOP	•							X	X	ON/OFF
STAT	UNIT STATUS		•					X	X	X	ON/OFF
HP KW	HEAT PUMP kW						•		X	X	°F
SAT	SUPPLY AIR TEMPERATURE			•				X	X	X	°F
ZONE	ZONE TEMPERATURE			•				X	X	X	°F
HTG SP	HEATING SETPOINT						•		X	X	°F
CLG SP	COOLING SETPOINT						•		X	X	°F
ALM	UNIT ALARM		•					X	X	X	ALARM/NORMAL



UNIT MANUFACTURER'S TERMINAL STRIP

COORDINATE ACTUAL WIRING WITH MANUFACTURER

SHARED TEMP/HUM/CO2 SENSOR WITH VENTILATION TERMINAL BOX

CONSOLE WATER SOURCE HEAT PUMP

RUN CONDITIONS - 24/7:
THE CONTROLLER SHALL MONITOR ZONE TEMPERATURE IN EACH SPACE SERVED BY THIS UNIT AS SHOWN ON THE FLOORPLANS. THE UNIT SHALL BE ENABLED TO RUN AT ALL TIMES TO PROTECT THE EQUIPMENT.
- THE UNIT SHALL MAINTAIN
  - A 78°F (ADJ.) COOLING SETPOINT
  - A 64°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

FAN:
THE FAN SHALL RUN WHEN HEATING OR COOLING IS REQUIRED AS SENSED BY THE ZONE TEMPERATURE SENSOR.
THE CONTROLLER SHALL MONITOR THE FAN STATUS.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

HEAT PUMP
UPON A CALL FOR HEATING OR COOLING, THE FIELD INSTALLED CONTROLLER SHALL START THE INLINE PUMP IF THE BUILDING LOOP PUMPS ARE NOT RUNNING. AFTER A DELAY TO ALLOW THE VALVE ENOUGH TIME TO OPEN, THE HEAT PUMP SHALL BE INDEXED TO THE HEATING OR COOLING MODE, AND THE COMPRESSOR(S) SHALL BE STAGED TO MAINTAIN SETPOINT. THE UNIT SHALL OPERATE UNDER ITS OWN SAFETIES.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

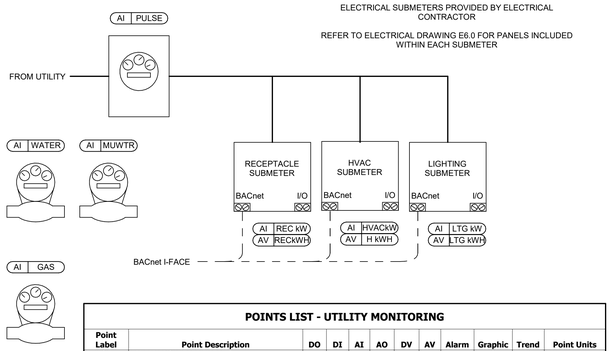
HEAT PUMP ENERGY REPORTING
THE CONTROLLER SHALL DETERMINE THE ENERGY SAVED BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KW – INSTANTANEOUS ENERGY DEMAND
- EQUIP KWH – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS:
- $KW_{EER} = ECN^*[(VOLTS^*AMPS)^* \cdot (PHASE^{PF})/1000$
- $KW_{COMP} = [(VOLTS * (AMPS_{COMP1} + AMPS_{COMP2}) * \sqrt{3}^{(PHASE=3^{PF})}/1000$
- $KWH = \sum_{EER}[(KW_{EER} + KW_{COMP}) * [(10\ MIN) / (60\ MIN/HR)]]$

WHERE:
- VOLTS = EQUIPMENT SUPPLY VOLTAGE
- AMPS = THE SUM OF ALL ELECTRICAL LOADS (FANS, COMPRESSORS, ETC)
- ECN = THE OUTPUT SPEED OF THE FAN ECM
- PHASE = 1 OR 3 PHASE
- PF = POWER FACTOR, ASSUMED OR MEASURED

INCLUDE ENERGY CALCULATIONS ONLY IF ALTERNATE 20 - FIELD INSTALLED CONTROLS IN INCLUDED IN SCOPE.

1 IDF/MDF ROOM HEAT PUMPS
NOT TO SCALE



ELECTRICAL SUBMETERS PROVIDED BY ELECTRICAL CONTRACTOR

REFER TO ELECTRICAL DRAWING E6.0 FOR PANELS INCLUDED WITHIN EACH SUBMETER

POINTS LIST - UTILITY MONITORING

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
PULSE	UTILITY POWER METER			•					X	X	kW
REC kW	RECEPTICAL SUBMETER DEMAND			•					X	X	kW
LTG kW	LIGHTING SUBMETER DEMAND			•					X	X	kW
HVACkW	HVAC SUBMETER DEMAND			•					X	X	kW
WATER	WATER METER			•					X	X	GAL
GAS	GAS METER			•					X	X	GAL
MUWTR	MAKE-UP WATER METER			•					X	X	GAL
RECkWH	RECEPTICAL SUBMETER CONSUMPTION						•		X	X	kWH
LTG kWH	LIGHTING SUBMETER CONSUMPTION						•		X	X	kWH
H kWH	HVAC SUBMETER CONSUMPTION						•		X	X	kWH

ENERGY TRACKING

THE CONTROLLER SHALL MONITOR THE KW, CHILLED WATER KBTU, HOT WATER KBTU, STEAM, AND ANY OTHER ENERGY CALCULATIONS FOR ENERGY CONSUMPTION ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.
ALARM SHALL BE GENERATED AS FOLLOWS:
- METER FAILURE: SENSOR READING INDICATES A LOSS OF PULSE OUTPUT FROM THE ENERGY METER.

PEAK DEMAND HISTORY:
THE CONTROLLER SHALL MONITOR AND RECORD THE PEAK (HIGH AND LOW) DEMAND READINGS FROM THE ENERGY METER. PEAK READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

USAGE HISTORY:
THE CONTROLLER SHALL MONITOR AND RECORD ENERGY METER READINGS SO AS TO PROVIDE AN ENERGY CONSUMPTION HISTORY. USAGE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

ENERGY NORMALIZATION
THE CONTROLLER SHALL HAVE THE ABILITY TO DISPLAY ALL ENERGY METERS AND CALCULATIONS IN THE FACILITY'S BILLABLE UNITS (I.E.: KW, KWH, CCF, BTU, LBS/HR, ETC.). IN ADDITION, THE CONTROLLER SHALL NORMALIZE ALL UNITS TO KBTU FOR EUI (ENERGY USE INDEX) CALCULATIONS.

ENERGY TOTALIZATIONS
THE SYSTEM SHALL TOTALIZE THE PEAK DEMAND AND CONSUMPTION DATA FOR EACH AREA IN THE FACILITY AS WELL AS A TOTAL ENERGY ROLLUP. AN AREA IS DEFINED AS A SPACE OR COLLECTION OF SPACES WITH SIMILAR USAGE AND SCHEDULING PATTERNS. THE BAS SUBMITTAL SHALL INCLUDE PROPOSED TOTALIZATIONS AND AN EXAMPLE OF THE ENERGY DASHBOARDS FOR APPROVAL.
EXAMPLES OF FACILITY AREAS MAY INCLUDE:
- FLOORS – ALL OF THE EQUIPMENT SERVING A FLOOR OF A MULTI-STORY BUILDING
- HVAC SYSTEM ZONES – ZONES SERVED BY AN AHU AND ALL OF ITS CHILD EQUIPMENT
- CATEGORY LOADS – A TOTALIZATION OF ALL LOADS THAT FIT WITHIN HVAC, LIGHTING, PLUG LOAD, ETC. CATEGORIES
- HVAC ENERGY TYPES – A TOTALIZATION OF ALL ENERGY METERS AND CALCULATIONS THAT ORIGINATE FROM A MAIN SOURCE. EXAMPLES INCLUDE ELECTRICAL KWH AND KW, CHILLED WATER KBTU, HOT WATER KBTU, ETC.

SYSTEM DASHBOARDS
ENERGY DASHBOARD GRAPHICS SHALL BE PROVIDED AT EACH TOTALIZATION LOCATION. THE DASHBOARD SHALL DISPLAY ENERGY DATA IN A GRAPHICAL FORMAT. TABULAR DATA SHALL NOT BE ACCEPTABLE. THE DASHBOARDS SHALL DISPLAY THE FOLLOWING INFORMATION AT A MINIMUM:
- INSTANTANEOUS DEMANDS FOR EACH ENERGY MONITORED
- PEAK HISTORIC DEMAND AND THE DATE THE PEAK WAS SET FOR EACH ENERGY MONITORED
- INSTANTANEOUS DEMAND AS A PERCENT OF ITS PEAK.
- TOTAL ENERGY NORMALIZED TO KBTU AND A CHART COMPARING EACH ENERGY SOURCE (STACKED BAR CHART, PIE CHART, ETC.)

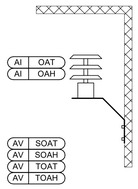
ENERGY INTENSITY FLOORPLAN GRAPHIC
ENERGY INTENSITY GRAPHICS SHALL BE PROVIDED AT EACH TOTALIZATION LOCATION. THE DASHBOARD SHALL DISPLAY ENERGY INTENSITY DATA IN A THERMOGRAPHIC FLOORPLAN. TABULAR DATA SHALL NOT BE ACCEPTABLE. THE DASHBOARDS SHALL DISPLAY THE FOLLOWING INFORMATION AT A MINIMUM:
- EACH ZONE SHALL HAVE A COLOR CORRESPONDING TO THE ENERGY USED AS A PERCENTAGE OF ITS PEAK LOAD.
- LINKS TO EACH TOTALIZATION ZONE OR EQUIPMENT

INCLUDE ENERGY TOTALIZATIONS ONLY IF ALTERNATE 20 - FIELD INSTALLED CONTROLS IN INCLUDED IN SCOPE.

2 UTILITY MONITORING AND DASHBOARDING
NOT TO SCALE

POINTS LIST - OUTSIDE AIR MONITORING

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
OAT	OUTSIDE AIR TEMPERATURE			•					X	X	°F
SOAT	SECONDARY OUTSIDE AIR TEMPERATURE						•		X	X	°F
TOAT	TERTIARY OUTSIDE AIR TEMPERATURE						•		X	X	°F
OAH	OUTSIDE AIR HUMIDITY			•					X	X	% RH
SOAH	SECONDARY OUTSIDE AIR HUMIDITY						•		X	X	% RH
TOAH	TERTIARY OUTSIDE AIR HUMIDITY						•		X	X	% RH



OUTSIDE AIR CONDITIONS
THE BAS SHALL MONITOR OUTSIDE AIR TEMPERATURE AND HUMIDITY AND BROADCAST GLOBAL POINTS TO ALL EQUIPMENT IN THE SYSTEM AS NECESSARY.

THESE POINTS SHALL BE THE PRIMARY TEMPERATURE AND HUMIDITY FOR THIS BUILDING. IN THE EVENT OF A FAILURE, THE SYSTEM SHALL BROADCAST GLOBAL VALUES FROM THE NEAREST NOAA WEATHER STATION.

ALARMS SHALL BE PROVIDED AS FOLLOWS
- SENSOR FAILURE: THE SENSOR IS REPORTING A VALUE INDICATING THE SENSOR HAS FAILED

SECONDARY OUTSIDE AIR CONDITIONS
IF THE LOCAL OUTSIDE AIR TEMPERATURE AND HUMIDITY SENSOR HAS FAILED, THE CONTROLLER SHALL AUTOMATICALLY SWITCH OVER TO A SECONDARY OUTSIDE AIR CONDITIONS BROADCAST FROM ANOTHER BUILDING. THE USER SHALL HAVE THE ABILITY TO SELECT WHICH BUILDING TO USE AS THE SECONDARY SENSOR.

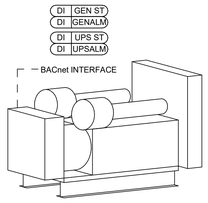
IF THE SECONDARY SENSOR FAILS, THE CONTROLLER SHALL AUTOMATICALLY SWITCH OVER TO THE CLOSEST ONLINE NOAA WEATHER STATION. IF ALL OF THESE OPTIONS FAIL, THE CONTROLLER SHAL DEFAULT TO STATIC VALUES OF 65 °F (ADJ.) AND 50% RH (ADJ.).

OUTSIDE AIR TEMPERATURE AND HUMIDITY HISTORY
THE CONTROLLER SHALL RECORD THE HIGH AND LOW TEMPERATURE AND HUMIDITY READINGS FOR THE OUTSIDE AIR. THESE READINGS SHALL BE RECORDED ON A DAILY, MONTHLY, MONTH-TO-DATE, YEARLY, AND YEAR-TO-DATE BASIS. THESE VALUES SHALL BE MAINTAINED IN A HISTORICAL DATABASE FOR A MINIMUM OF TEN YEARS.

3 OUTSIDE AIR CONDITIONS
NOT TO SCALE

POINTS LIST - GENERATOR MONITORING

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
GEN ST	GENERATOR STATUS		•						X	X	ON/OFF
UPS ST	UPS STATUS		•						X	X	ON/OFF
GENALM	GENERATOR ALARM		•						X	X	ALARM/NORMAL
UPSALM	UPS ALARM		•						X	X	ALARM/NORMAL



COORDINATE WITH MFGR FOR FULL BACnet POINTS LIST

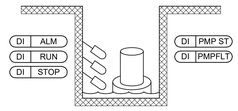
GENERATOR MONITORING
THE CONTROLLER SHALL MONITOR THE GENERATOR AND UPS. GENERATOR STATUS, GENERAL FAULT, UPS STATUS, AND UPS FAULT VIA HARDWIRE POINTS, AND SHALL MONITOR ALL OTHER POINTS VIA BACNET INTERFACE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- GENERATOR FAULT: THE GENERATOR IS IN A FAULT CONDITION.
- UPS FAULT: THE UPS IS IN A FAULT CONDITION

4 GENERATOR MONITORING
NOT TO SCALE

POINTS LIST - SUMP PUMP

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
RUN	RUN PUMP		•						X	X	ON/OFF
PMP ST	PUMP STATUS		•						X	X	ON/OFF
ALM	WATER LEVEL ALARM		•						X	X	ALARM/NORMAL
STOP	STOP PUMP		•						X	X	ON/OFF
PMPFLT	PUMP FAULT		•						X	X	ALARM/NORMAL



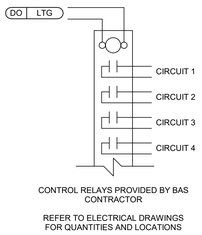
SUMP PUMP MONITORING
THE CONTROLLER SHALL MONITOR THE STATUS OF THE SUMP FLOAT SWITCHES. THE PUMP SHAL OPERATE UNDER ITS OWN INTERNAL CONTROLS BUT THE BAS SHALL MONITOR THE STATUS AND FAULT CONDITIONS OF THE GRINDER PUMP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH WATER: IF THE WATER LEVEL RISES ABOVE THE SUMP ALARM FLOAT SWITCH
- PUMP FAULT: IF THE PUMP INDICATES A FAULT CONDITION
- PUMP FAILURE: IF THE RUN FLOAT SWITCH IS ACTIVE AND THE PUMP STATUS IS OFF
- EXCESSIVE RUNTIME: THE STATUS IS ON FOR MORE THAN 10 MINUTES (ADJ.)
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

5 SUMP PUMP
NOT TO SCALE

POINTS LIST - LIGHTING CONTACTORS

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
LTG	LIGHTING ON/OFF	•							X	X	ON/OFF



CONTROL RELAYS PROVIDED BY BAS CONTRACTOR

REFER TO ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS

INDOOR LIGHTING
RUN CONDITIONS - SCHEDULED:
THE LIGHTING SHALL BE TURNED ON OR OFF BASED ON A USER DEFINABLE SCHEDULE.

OCCUPANT OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL WILL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND TURN THE LIGHTING ON FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE LIGHTING WILL AUTOMATICALLY RETURN TO THE SCHEDULE

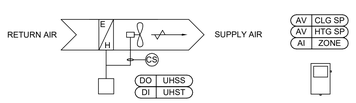
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- OUTPUT RUNTIME EXCEEDED: LIGHTING RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

OUTDOOR LIGHTING
RUN CONDITIONS:
THE LIGHTING OUTPUT SHALL TURN ON AND OFF BASED UPON THE LOCAL SUNRISE AND SUNSET TIMES. THE TRANSITIONS SHALL BE CONFIGURABLE AS FOLLOWS:
- OUTPUT TURNS OFF (ADJ.) AT 30 MINUTES (ADJ.) BEFORE (ADJ.) SUNRISE.
- OUTPUT TURNS ON (ADJ.) AT 30 MINUTES (ADJ.) AFTER (ADJ.) SUNSET.

6 LIGHTING
NOT TO SCALE

POINTS LIST - BC - ELECTRIC UNIT HEATERS

Point Label	Point Description	DO	DI	AI	AO	DV	AV	Alarm	Graphic	Trend	Point Units
UHSS	UNIT HEATER START/STOP	•							X	X	ON/OFF
UHST	UNIT HEATER STATUS		•					X	X	X	ON/OFF
ZONE	ZONE TEMPERATURE			•				X	X	X	°F
HTG SP	HEATING SETPOINT						•		X	X	°F
CLG SP	COOLING SETPOINT						•		X	X	°F



ELECTRIC UNIT HEATER
RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- CONTINUOUS OPERATION. THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 60°F (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

DEMAND LIMITING - ZONE SETPOINT OPTIMIZATION:
TO LOWER POWER CONSUMPTION, THE ZONE SETPOINTS SHALL AUTOMATICALLY RELAX WHEN THE FACILITY POWER CONSUMPTION EXCEEDS DEFINABLE THRESHOLDS. THE AMOUNT OF RELAXATION SHALL BE INDIVIDUALLY CONFIGURABLE FOR EACH ZONE. THE ZONE SETPOINTS SHALL AUTOMATICALLY RETURN TO THEIR PREVIOUS SETTINGS WHEN THE FACILITY POWER CONSUMPTION DROPS BELOW THE THRESHOLDS.

ELECTRIC HEATING COIL:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND ENABLE THE FAN AND THE HEATING ELEMENT TO MAINTAIN ITS HEATING SETPOINT.
THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN IS ON.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

COIL ENERGY REPORTING
THE CONTROLLER SHALL DETERMINE THE ENERGY SAVED BY TRENDING THE FOLLOWING POINTS AT 10-MINUTE INTERVALS AND SHALL BE HISTORICALLY ARCHIVED FOR A MINIMUM OF 365 DAYS.
- RUNTIME – RUN – ACTUAL EQUIPMENT RUNTIME
- EQUIP KW – INSTANTANEOUS ENERGY DEMAND
- EQUIP KWH – ENERGY USAGE OVER TIME CALCULATED AS A LEAST SQUARES INTEGRATION (OR SIMILAR)

THESE VALUES ARE CALCULATED AS FOLLOWS:
- $KWHH = \sum_{KW}[KW * (10\ MIN) / (60\ MIN/HR)]$

WHERE:
- KW = UNIT RATED COIL CAPACITY

INCLUDE ENERGY CALCULATIONS ONLY IF ALTERNATE 20 - FIELD INSTALLED CONTROLS IN INCLUDED IN SCOPE.

7 UNIT HEATERS
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR: COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE: 01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: LILY ALACHNOWICZ

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

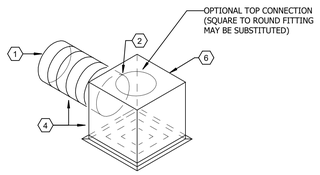
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

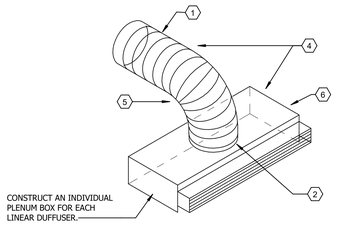
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SHEET NUMBER: M803

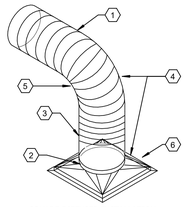
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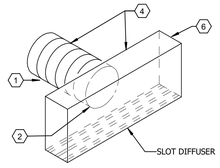
SQUARE DIFFUSER W/ PLENUM BOX INSTALLATION



SIDEWALL SLOT DIFFUSER WITH FIELD FABRICATED PLENUM INSTALLATION



SQUARE DIFFUSER INSTALLATION

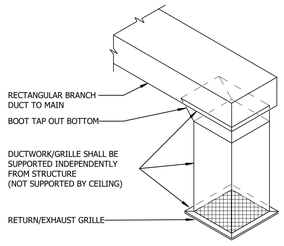


SLOT DIFFUSER CEILING INSTALLATION

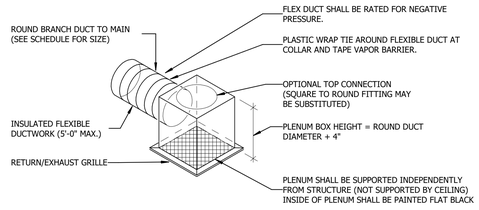
NOTES:

1. INSULATED, ACOUSTICAL FLEXIBLE DUCTWORK SHALL BE PROVIDED AT EACH DIFFUSER AND SHALL NOT EXCEED FIVE (5) FEET OF LENGTH. FLEX DUCT SHALL NOT CONTACT CEILING AND SHALL BE PROPERLY SUPPORTED SO AS TO HAVE NO KINKS. CONNECT FLEXIBLE DUCT TO RIGID DUCT BRANCH AND TRANISTION AS REQUIRED. REFER TO AIR TERMINAL SCHEDULES FOR BRANCH SIZE UON ON FLOOR PLANS.
2. TIE-WRAP CONNECT FLEX DUCT HELICAL COIL TO ROUND METAL DIFFUSER NECK AND TO ROUND METAL DUCTWORK AT OTHER END OF FLEX DUCT. PULL FLEX DUCT VAPOR BARRIER OVER LOWER TIE-WRAP AND INSTALL SECOND TIE-WRAP OVER THE VAPOR BARRIER. INSULATE METAL DUCT OR DIFFUSER OVER TOP OF SECOND TIE-WRAP AND INSTALL INSULATOR'S TAPE ON EDGES.
3. PROVIDE A MINIMUM OF 1 DUCT DIAMETER OF STRAIGHT DUCT TO INLET OF DIFFUSER, OR PROVIDE EQUALIZING GRID AT DIFFUSER.
4. SUPPORT INDEPENDENTLY FROM STRUCTURE (NOT SUPPORTED BY CEILING).
5. THE MINIMUM FLEXIBLE DUCT ELBOW RADIUS SHALL BE TWICE THE DUCT DIAMETER (RADIUS = 2.0 X DUCT DIAMETER).
6. EXTERNALLY INSULATE BACK OF DIFFUSER AND/OR PLENUM BOX WITH MINIMUM R-6 INSULATION.

1 SUPPLY AIR DEVICE INSTALLATION
NOT TO SCALE

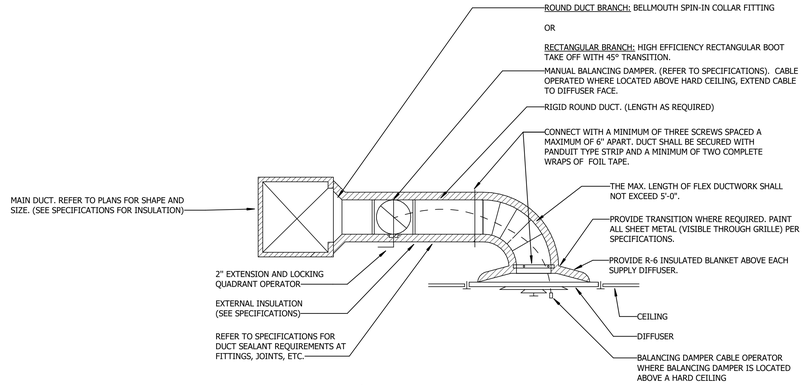


RIGID RECTANGULAR DUCT CONNECTION INSTALLATION



ROUND FLEXIBLE DUCT CONNECTION INSTALLATION

2 RETURN/EXHAUST AIR DEVICE INSTALLATION
NOT TO SCALE



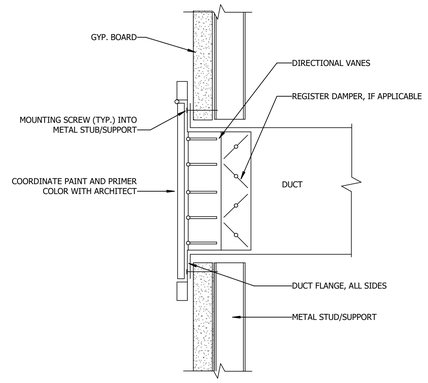
NOTE:

SUPPORT DUCTWORK, DIFFUSERS, ETC.
INDEPENDENTLY OF CEILING SYSTEM.



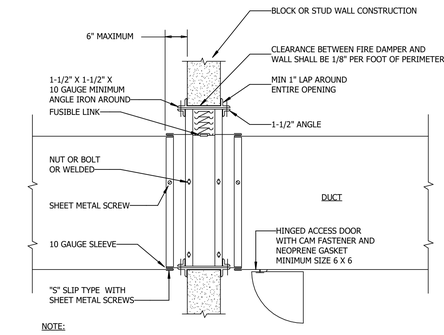
PLAN VIEW REPRESENTATION

3 TYPICAL BRANCH DUCT DETAIL(SUPPLY, RETURN, AND EXHAUST)
NOT TO SCALE



NOTE: SIDEWALL MOUNTING SHOWN,
CEILING MOUNTING SIMILAR

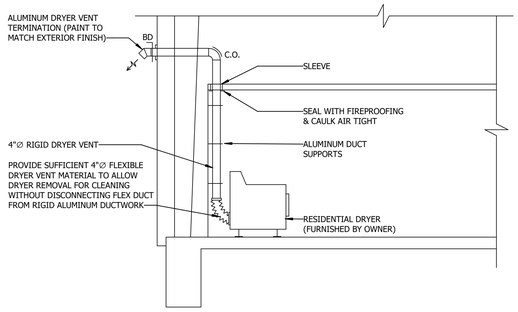
4 GRILLE/REGISTER DUCT CONNECTION DETAIL
NOT TO SCALE



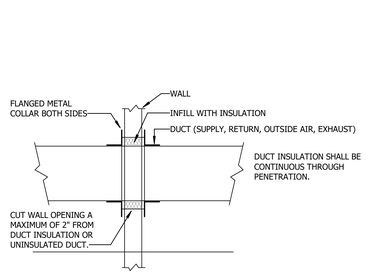
NOTE:

1. PROVIDE FIRE DAMPER FPR ROUND DUCT OR USE TRANSITIONS FOR ROUND TO SQUARE DUCT.
2. INSTALLATION SHALL COMPLY WITH U.L. REQUIREMENTS

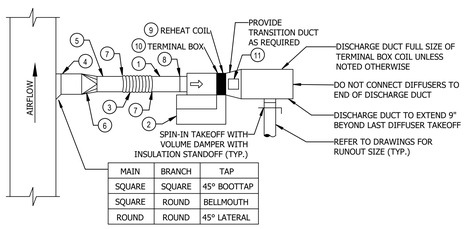
5 TYPICAL DYNAMIC FIRE DAMPER INSTALLATION
NOT TO SCALE



6 ELECTRIC CLOTHES DRYER VENTING (SIDEWALL TERMINATION)
NOT TO SCALE



7 DUCT PENETRATION THROUGH NON-RATED WALL DETAIL
NOT TO SCALE

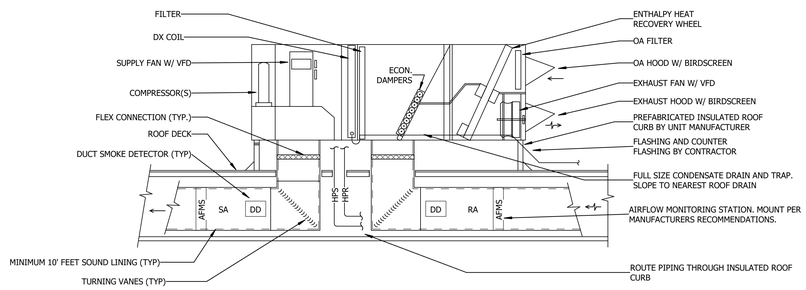


MAIN	BRANCH	TAP
SQUARE	SQUARE	45° BOOTTAP
SQUARE	ROUND	BELLMOUTH
ROUND	ROUND	45° LATERAL

PLAN NOTES

1. A MINIMUM OF THREE (3) DUCT DIAMETERS (MAXIMUM OF 3'-0") OF STRAIGHT HARD METAL DUCT SHALL BE PROVIDED DIRECTLY UPSTREAM OF TERMINAL BOX INLET AFTER TRANSITION TO TERMINAL BOX INLET SIZE.
2. MAINTAIN A MINIMUM OF 18" CLEARANCE FOR SERVICE, CONTROLLER, AND REHEAT VALVING. PROVIDE 36" MINIMUM CLEARANCE WHERE VOLTAGE EXCEEDS 24V.
3. OPTIONAL FLEXIBLE DUCT CONNECTION TO THE TERMINAL BOX. HARD DUCT IS PERFECTLY ACCEPTABLE. FLEXIBLE DUCT SHALL NOT EXCEED ONE (1) FOOT IN LENGTH. FLEXIBLE DUCT SHALL BE INSTALLED STRAIGHT WITH NO OFFSETS.
4. REFER TO DRAWINGS FOR RUNOUT SIZES. RUNOUT SIZE IS SAME AS TERMINAL BOX INLET SIZE UNLESS NOTED OTHERWISE.
5. DUCT SIZE AFTER TRANSITION IS SAME SIZE AS SCHEDULED TERMINAL BOX INLET SIZE AS MODIFIED BY COMPLETED SUBMITTALS.
6. TRANSITION AS REQUIRED IF RUNOUT SIZE DIFFERS FROM TERMINAL BOX INLET SIZE.
7. TIE-WRAP CONNECT FLEX DUCT HELICAL COIL TO ROUND METAL DUCTWORK. PULL FLEX DUCT VAPOR BARRIER OVER LOWER TIE-WRAP AND INSTALL SECOND TIE-WRAP OVER THE VAPOR BARRIER. INSULATE METAL DUCT OVER TOP OF SECOND TIE-WRAP AND INSTALL INSULATOR'S TAPE ON EDGES.
8. INSULATE ALL EXPOSED METAL AT TERMINAL BOX INLET. INSULATE AROUND FLOW SENSORS.
9. INSULATE EXPOSED METAL AT COIL. INSULATE RETURN BENDS. SEAL CLEAT JOINTS. DUCTWORK INSULATION SHALL OVERLAP THE INTERNALLY INSULATED TERMINAL UNIT BY TWO INCHES. INSULATE COIL PIPING BETWEEN CONTROL VALVE AND COIL CONNECTION.
10. SUPPORT TERMINAL BOX SUCH THAT IT CAN HANG INDEPENDENTLY OF ANY DUCTWORK CONNECTIONS. ATTACH FOUR STRAP HANGERS TO UNIT.
11. SEAL SCREW PENETRATIONS OF TERMINAL BOX.
    PROVIDE MINIMUM 8"X8" ACCESS DOOR DOWNSTREAM OF REHEAT COIL.

8 TERMINAL BOX (VAV, CAV)
NOT TO SCALE



NOTES:

1. COORDINATE ROOFTOP INSTALLATION TO MAINTAIN ROOF WARRANTY.
2. COORDINATE EXACT LOCATIONS FOR DUCT CONNECTS WITH FLOOR PLANS AND EQUIPMENT MANUFACTURER. PROVIDE OPENINGS IN ROOF DECK AS REQUIRED.

9 ROOFTOP WSHP UNIT
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

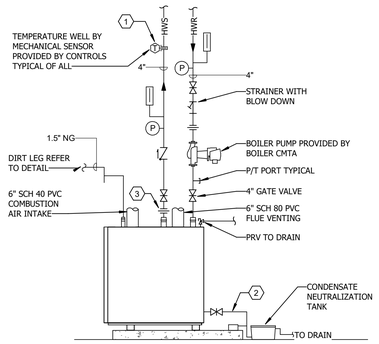
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M901

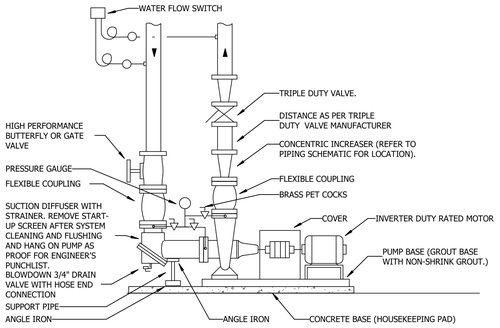
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X NOTES:

1. MECHANICAL TO FURNISH & INSTALL NEW WELL FOR NEW CONTROLS SENSOR. ALL WELLS SHALL BE INSTALLED WITH THERMAL CONDUCTIVITY COMPOUND FURNISHED BY CONTROLS CONTRACTOR.
2. EXTEND CONDENSATE TO FLOOR DRAIN. ALL FLOOR PIPING SHALL BE INSTALLED AS NOT TO BE A TRIP HAZARD. COORDINATE WITH CMTA CONSTRUCTION MANAGER & OWNER.
3. PROVIDE DIELECTRIC NIPPLES AT ALL CONNECTIONS BETWEEN STEEL & COPPER PIPING.

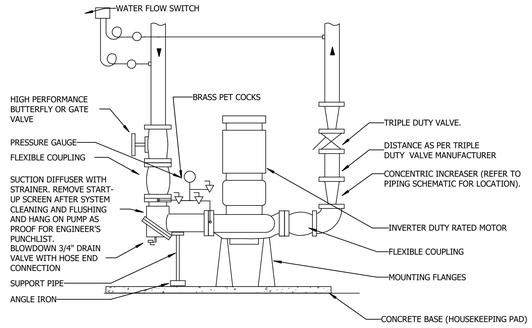
1 GAS FIRED CONDENSING BOILER
NOT TO SCALE



DETAIL NOTES:

1. MAINTAIN 4 TO 10 PIPE DIA. OF STRAIGHT PIPE LENGTH BETWEEN PUMP SUCTION CONNECTION AND SUCTION DIFFUSER.
2. PIPES, VALVES AND FITTINGS SHALL BE LINE SIZE, NOT PUMP FLANGE SIZE.

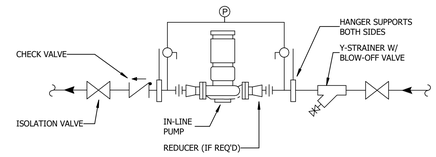
2 BASE MOUNTED PUMP PIPING
NOT TO SCALE



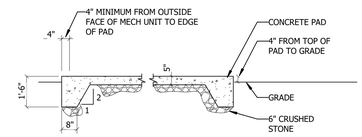
DETAIL NOTES:

1. MAINTAIN 4 TO 10 PIPE DIA. OF STRAIGHT PIPE LENGTH BETWEEN PUMP SUCTION CONNECTION AND SUCTION DIFFUSER.
2. PIPES, VALVES AND FITTINGS SHALL BE LINE SIZE, NOT PUMP FLANGE SIZE.

3 VERTICAL IN-LINE PUMP DETAIL
NOT TO SCALE



4 VERTICAL IN-LINE PUMP DETAIL
NOT TO SCALE



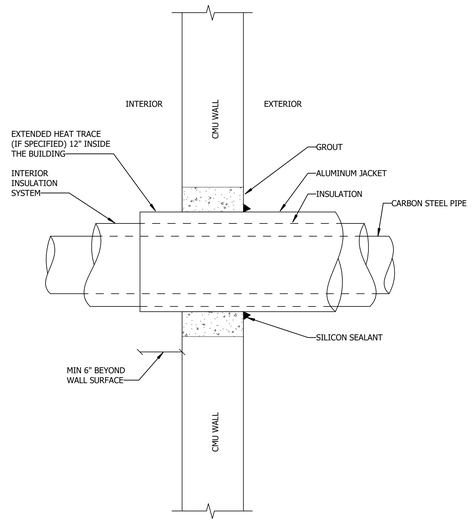
5 CONCRETE HOUSEKEEPING PAD - EXTERIOR EQUIPMENT
NOT TO SCALE

6 AIR SEPARATOR
NOT TO SCALE

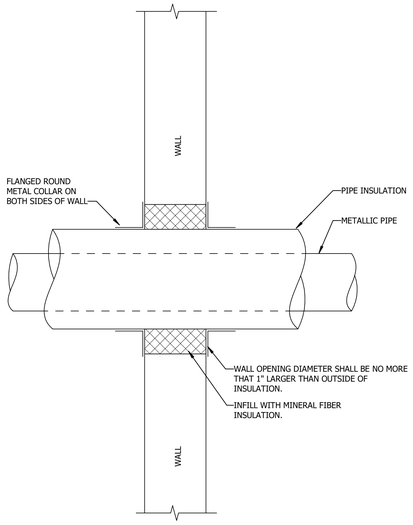
7 CHEMICAL FEED TANK
NOT TO SCALE

8 GAS FIRED EQUIPMENT CONNECTION
NOT TO SCALE

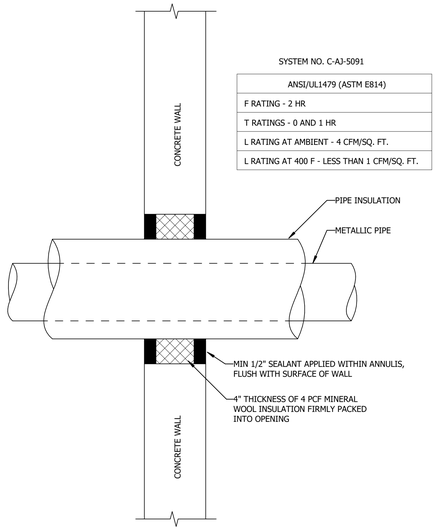
9 EXPANSION TANK
NOT TO SCALE



10 EXTERIOR WALL PIPE PENETRATION DETAIL
NOT TO SCALE



11 PIPE PENETRATION THROUGH NON-RATED WALL DETAIL
NOT TO SCALE



12 PIPE PENETRATION THROUGH RATED INTERIOR WALL
NOT TO SCALE

* USE THIS METHOD WHENEVER DUCTS CAN BE GROUPED TOGETHER

MULTIPLE DUCT RUNS ON TRAPEZE HANGERS

DETAIL NOTES:

1. DUCTS SHALL BE SUPPORTED PER SMACNA STANDARDS

13 DUCTWORK HANGERS AND SUPPORTS
NOT TO SCALE

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RUNCW25

SCO # 24-29053-02D

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REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

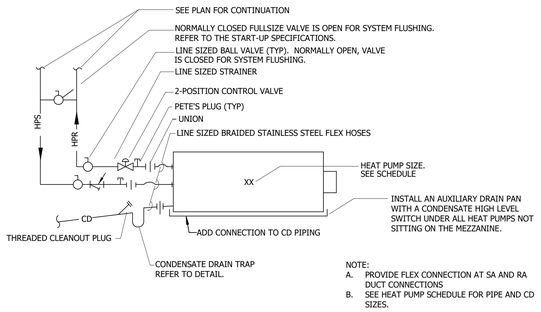
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL DETAILS

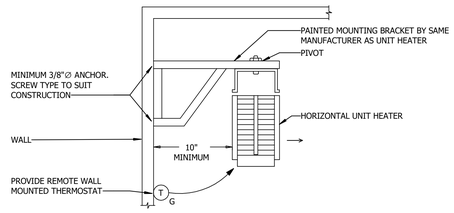
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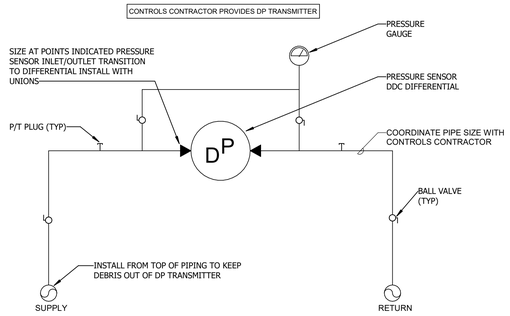


NOTE:
A. PROVIDE FLEX CONNECTION AT SA AND RA DUCT CONNECTIONS
B. SEE HEAT PUMP SCHEDULE FOR PIPE AND CD SIZES.

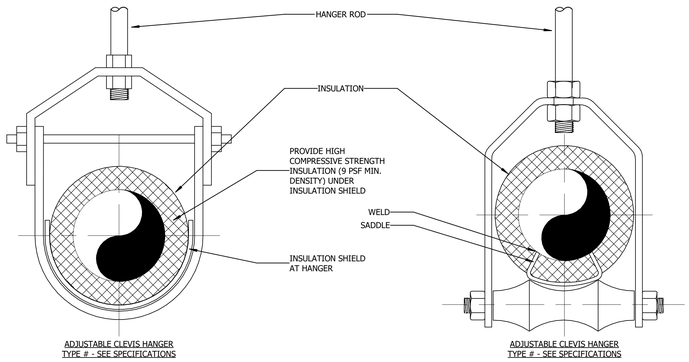
1 HORIZONTAL HEAT PUMP PIPING SCHEMATIC
NOT TO SCALE

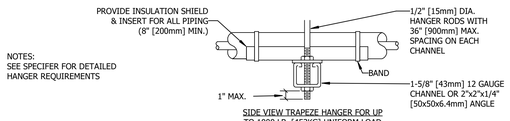


2 ELECTRIC HORIZONTAL UNIT HEATER
NOT TO SCALE



3 DIFFERENTIAL PRESSURE SENSOR
NOT TO SCALE



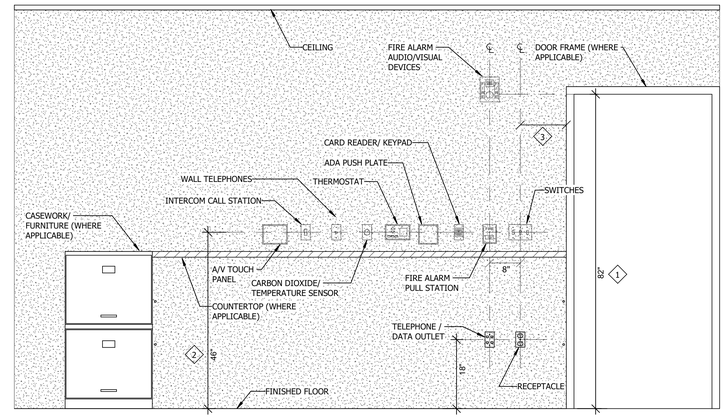


NOTES:
SEE SPECIFER FOR DETAILED HANGER REQUIREMENTS

SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. [453KG] UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING							NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.											
NOM. SIZE	IN. [mm]	THRU 3/4 THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	8 [200]	10 [250]	12 [300]	14 [350]	16 [400]	18 [450]	20 [500]	24 [600]
PIPE	FT. [mm]	7 [2100]	7 [2100]	7 [2100]	9 [2700]	10 [3000]	11 [3400]	12 [3700]	14 [4100]	16 [4900]	17 [5200]	19 [5800]	22 [6700]	23 [7000]	25 [7600]	27 [8200]	28 [8500]	30 [9100]	32 [9600]
TUBING	FT. [mm]	5 FT [1500]	6 [1800]	7 [2100]	8 [2400]	8 [2400]	9 [2700]	10 [3000]	12 [3700]	13 [4000]	14 [4100]	16 [4900]	- -	- -	- -	- -	- -	- -	- -

4 PIPE HANGER DETAIL
NOT TO SCALE



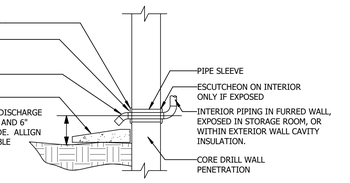
DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG CENTERLINE OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES: (X)

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. WHENEVER THE TYPICAL DEVICE MOUNTING HEIGHT SHOWN CAUSES CONFLICT WITH A COUNTERTOP/BACKSPLASH, ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN BY THE DOTTED LINES. FOR NON-BLOCK WALLS ALIGN CENTERLINE OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.

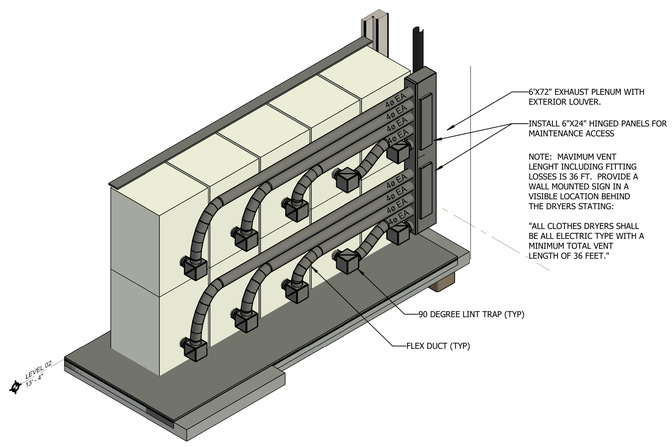
5 TYPICAL WALL DEVICE MOUNTING COORDINATION
NOT TO SCALE



NOTE:

1. PAINT EXTERIOR BRASS 45° ELBOW AND EXTENSION TO MATCH BUILDING EXTERIOR WALL COLOR.

6 DETAIL - A/C CONDENSATE DRAIN DISCHARGE DETAIL
NOT TO SCALE



8 DRYER EXHAUST DETAIL
NOT TO SCALE

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DESIGN TEAM
LILY ALACHNOWICZ

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M903

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DESCRIPTION	MOUNTING HEIGHT	SYMBOL
POWER OUTLETS		
SIMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE)	1'-6"	
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		
'G' WITHIN ANY DEVICE INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)		
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-6"	
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-6"	
EMERGENCY DUPLEX RECEPTACLE (ON STANDBY BRANCH POWER)	1'-6"	EM
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	C/S
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		
VOLTAGE/2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	
VOLTAGE/3 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	
'T' INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		SS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		
PANEL FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		2D
SPECIAL OUTLETS		
FLOORBOX, AS SCHEDULED	FLOOR	FB1
POKE-THRU, AS SCHEDULED	FLOOR	PT
WALLBOX, AS SCHEDULED	WALL	WB1
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING FIXTURES AND EQUIPMENT		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE		
RECESSED CEILING FIXTURE		
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		
LIGHTED BOLLARD WITH CONCRETE BASE		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
TRACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS		
FLOODLIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS. WITH OR WITHOUT EGRESS HEADS		
SUSPENDED STRIP FIXTURE	9'-0" AFF UON	
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		
REMOTE LIGHT FIXTURE DRIVER	AS NOTED	RD
LIGHTING CONTROLS		
LIGHT SWITCH: LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	$_{2}$
LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	$_{2}$
GRAPHIC TOUCHSCREEN CONTROL STATION	46"	
LINE VOLTAGE SWITCH	46"	$_{2}$
KEYED SWITCH	46"	
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$_{OS}$ $_{OS}$
OCCUPANCY OR VACANCY SENSOR SWITCH WITH DIMMING	46"	$_{DOS}$
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
OCCUPANCY SENSOR, CORNER MOUNT	CLG	OS
DAYLIGHT SENSOR	AS NOTED	DS
PHOTOCELL	AS NOTED	PC
LIGHTING RELAY	AS NOTED	LR
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ES

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
MISCELLANEOUS		PHASE NEUTRAL GROUND
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS.		
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$ M
MOMENTARY CONTACT SWITCH	46"	$ MC
HAND-OFF-AUTO 3-POSTION SWITCH	46"	$ HOA
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
DISCONNECTING MEANS TAG INFORMATION TRIP RATING AMPERAGE: FRAME AMPERAGE RATING: DISCONNECTING MEANS TYPE: → TYPE, XXX AF, XXX AT, VOLTAGE RATING: → XXX V, XP, NEMA XX NUMBER OF POLES: NEMA RATING: **TYPES:** NFSS - NON FUSED SAFETY SWITCH FSS - FUSED SAFETY SWITCH M - NON-REVERSING MOTOR STARTER SNAP SWITCH ECB - ENCLOSED CIRCUIT BREAKER **NOTE:** NOT ALL ELEMENTS ON TAG ARE PRESENT ON ALL TYPES OF DISCONNECTS		
MUSHROOM SWITCH	46"	
PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS.	46"	
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)		SPD
GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED) - SEE SPECIFICATIONS	46"	GEN-A
CONDUIT UP		
CONDUIT DOWN		
FLEXIBLE CONDUIT		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-#
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		EQUIP-#
TAGGED NOTE		
REVISION TAG		

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
LINETYPE LEGEND		
		EXISTING
		DEMOLISHED
		NEW

Sheet List - Electrical

SHEET #	SHEET NAME
E001	ELECTRICAL LEGEND
E101A	ELECTRICAL LIGHTING PLAN - LEVEL 01 - AREA A
E101B	ELECTRICAL LIGHTING PLAN - LEVEL 01 - AREA B
E102A	ELECTRICAL LIGHTING PLAN - LEVEL 02 - AREA A
E102B	ELECTRICAL LIGHTING PLAN - LEVEL 02 - AREA B
E103A	ELECTRICAL LIGHTING PLAN - LEVELS 03 - AREA A
E103B	ELECTRICAL LIGHTING PLAN - LEVELS 03 - AREA B
E104A	ELECTRICAL LIGHTING PLAN - LEVELS 04 - AREA A
E104B	ELECTRICAL LIGHTING PLAN - LEVELS 04 - AREA B
E105A	ELECTRICAL LIGHTING PLAN - LEVELS 05 - AREA A
E105B	ELECTRICAL LIGHTING PLAN - LEVELS 05 - AREA B
E106A	ELECTRICAL LIGHTING PLAN - ROOF - AREA A
E106B	ELECTRICAL LIGHTING PLAN - ROOF - AREA B
E201A	ELECTRICAL POWER PLAN - LEVEL 01 - AREA A
E201B	ELECTRICAL POWER PLAN - LEVEL 01 - AREA B
E202A	ELECTRICAL POWER PLAN - LEVEL 02 - AREA A
E202B	ELECTRICAL POWER PLAN - LEVEL 02 - AREA B
E203A	ELECTRICAL POWER PLAN - LEVEL 03 - AREA A
E203B	ELECTRICAL POWER PLAN - LEVEL 03 - AREA B
E204A	ELECTRICAL POWER PLAN - LEVEL 04 - AREA A
E204B	ELECTRICAL POWER PLAN - LEVEL 04 - AREA B
E205A	ELECTRICAL POWER PLAN - LEVEL 05 - AREA A
E205B	ELECTRICAL POWER PLAN - LEVEL 05 - AREA B
E301A	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 01 - AREA A
E301B	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 01 - AREA B
E302A	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 02 - AREA A
E302B	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 02 - AREA B
E303A	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 03 - AREA A
E303B	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 03 - AREA B
E304A	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 04 - AREA A
E304B	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 04 - AREA B
E305A	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 05 - AREA A
E305B	ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 05 - AREA B
E306A	ELECTRICAL EQUIPMENT POWER PLAN - ROOF - AREA A
E306B	ELECTRICAL EQUIPMENT POWER PLAN - ROOF - AREA B
E401	ELECTRICAL LIGHTNING PROTECTION PLAN
E501	ELECTRICAL LIGHT FIXTURE SCHEDULE & LIGHTING CALCS
E601	ELECTRICAL PANELBOARD SCHEDULES
E602	ELECTRICAL PANELBOARD SCHEDULES
E603	ELECTRICAL PANELBOARD SCHEDULES
E604	ELECTRICAL PANELBOARD SCHEDULES
E605	ELECTRICAL PANELBOARD SCHEDULES
E606	ELECTRICAL PANELBOARD SCHEDULES
E607	ELECTRICAL PANELBOARD SCHEDULES
E608	ELECTRICAL PANELBOARD SCHEDULES
E609	ELECTRICAL PANELBOARD SCHEDULES
E610	ELECTRICAL PANELBOARD SCHEDULES
E611	ELECTRICAL PANELBOARD SCHEDULES
E701	ELECTRICAL PARTIAL RISER DIAGRAM
E702	ELECTRICAL PARTIAL RISER DIAGRAM
E801	ELECTRICAL DETAILS
E802	ELECTRICAL DETAILS
E803	ELECTRICAL LIGHTNING PROTECTION DETAILS
E901	ELECTRICAL SITE UTILITY DEMOLITION PLAN
E902	ELECTRICAL SITE UTILITY NEW WORK PLAN

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RUNCW25

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

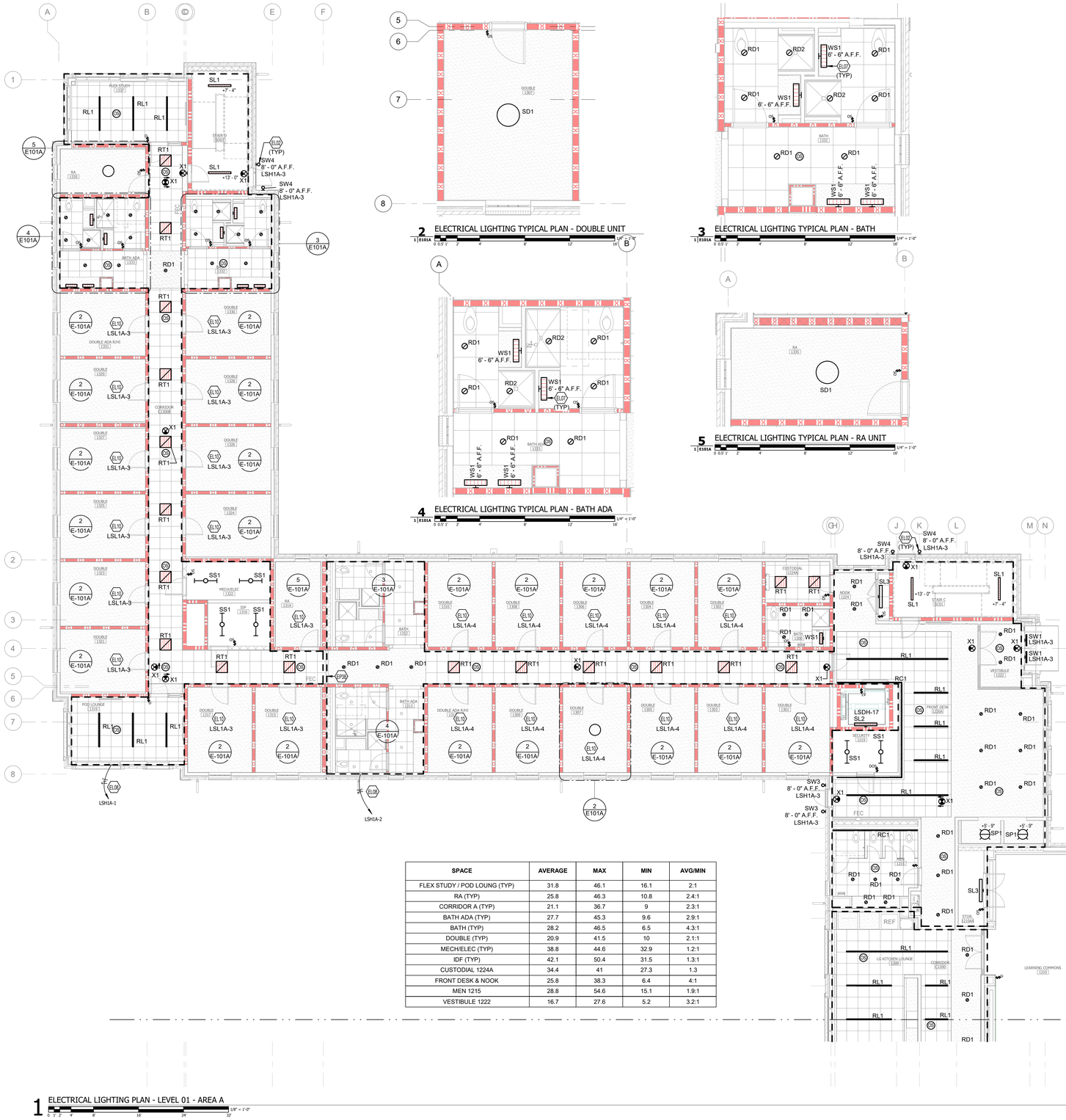
UNC WILMINGTON, NC

PROJECT NO.
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SHEET TITLE
ELECTRICAL LEGEND

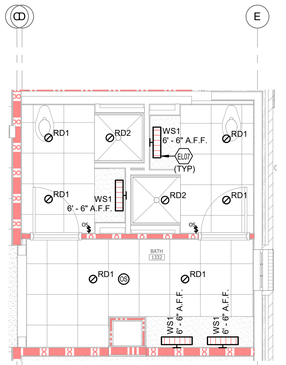
SHEET NUMBER
E001

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1 ELECTRICAL LIGHTING PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

2 ELECTRICAL LIGHTING TYPICAL PLAN - DOUBLE UNIT
1/4" = 1'-0"



3 ELECTRICAL LIGHTING TYPICAL PLAN - BATH
1/4" = 1'-0"

4 ELECTRICAL LIGHTING TYPICAL PLAN - BATH ADA
1/4" = 1'-0"

5 ELECTRICAL LIGHTING TYPICAL PLAN - RA UNIT
1/4" = 1'-0"

SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
CORRIDOR A (TYP)	21.1	36.7	9	2.3:1
BATH ADA (TYP)	27.7	45.3	9.6	2.9:1
BATH (TYP)	28.2	46.5	6.5	4.3:1
DOUBLE (TYP)	20.9	41.5	10	2.1:1
MECH/ELEC (TYP)	38.8	44.6	32.9	1.2:1
IDF (TYP)	42.1	50.4	31.5	1.3:1
CUSTODIAL 1224A	34.4	41	27.3	1.3
FRONT DESK & NOOK	25.8	38.3	6.4	4:1
MEN 1215	28.8	54.6	15.1	1.9:1
VESTIBULE 1222	16.7	27.6	5.2	3.2:1

SHEET KEYED NOTES

EL02	LOOP CIRCUIT SERVING EXTERIOR FIXTURES THROUGH BUILDING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL.
EL06	INSTALL EXTERIOR FIXTURE IN MULLION ABOVE DOORS.
EL07	COORDINATE FINAL MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
EL08	CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EL10	CONNECT FIXTURE(S) IN TYPICAL SPACE TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

LIGHTING - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

J. RELAYS AND/OR ROOM CONTROLLERS SERVING FIXTURES IN AREAS WITH HARD (GYP) CEILING SHALL BE INSTALLED ABOVE NEAREST ACCESSIBLE ACT CEILING.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

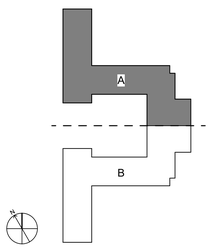
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

LITTLE
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CMTA License No. C-4556

NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT
RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

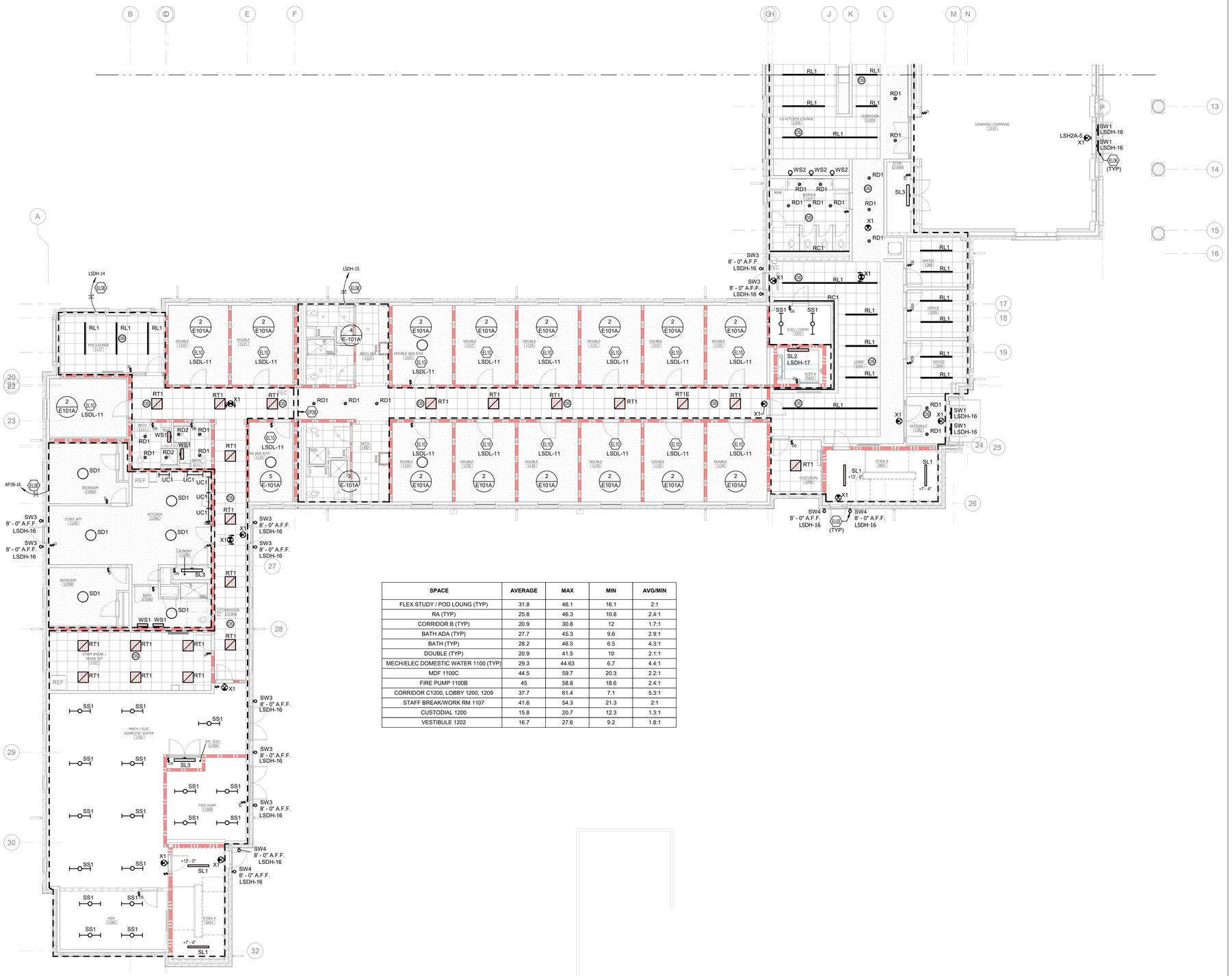
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL 01 - AREA A

SHEET NUMBER
E101A

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
CORRIDOR B (TYP)	20.9	30.8	12	1.7:1
BATH ADA (TYP)	27.7	45.3	9.6	2.9:1
BATH (TYP)	28.2	46.5	6.5	4.3:1
DOUBLE (TYP)	20.9	41.5	10	2.1:1
MECH/ELEC DOMESTIC WATER 1100 (TYP)	29.3	44.63	6.7	4.4:1
MDF 1100C	44.5	59.7	20.3	2.2:1
FIRE PUMP 1100B	45	58.8	18.6	2.4:1
CORRIDOR C1200, LOBBY 1200, 1209	37.7	61.4	7.1	5.3:1
STAFF BREAK/WORK RM 1107	41.6	54.3	21.3	2:1
CUSTODIAL 1200	15.8	20.7	12.3	1.3:1
VESTIBULE 1202	16.7	27.6	9.2	1.8:1

1 ELECTRICAL LIGHTING PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

- EL02 LOOP CIRCUIT SERVING EXTERIOR FIXTURES THROUGH BUILDING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL.
- EL06 INSTALL EXTERIOR FIXTURE IN MULLION ABOVE DOORS.
- EL08 CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
- EL10 CONNECT FIXTURE(S) IN TYPICAL SPACE TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
- EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

LIGHTING - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

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F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

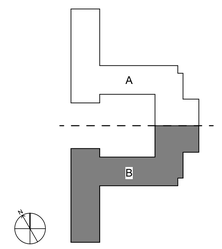
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

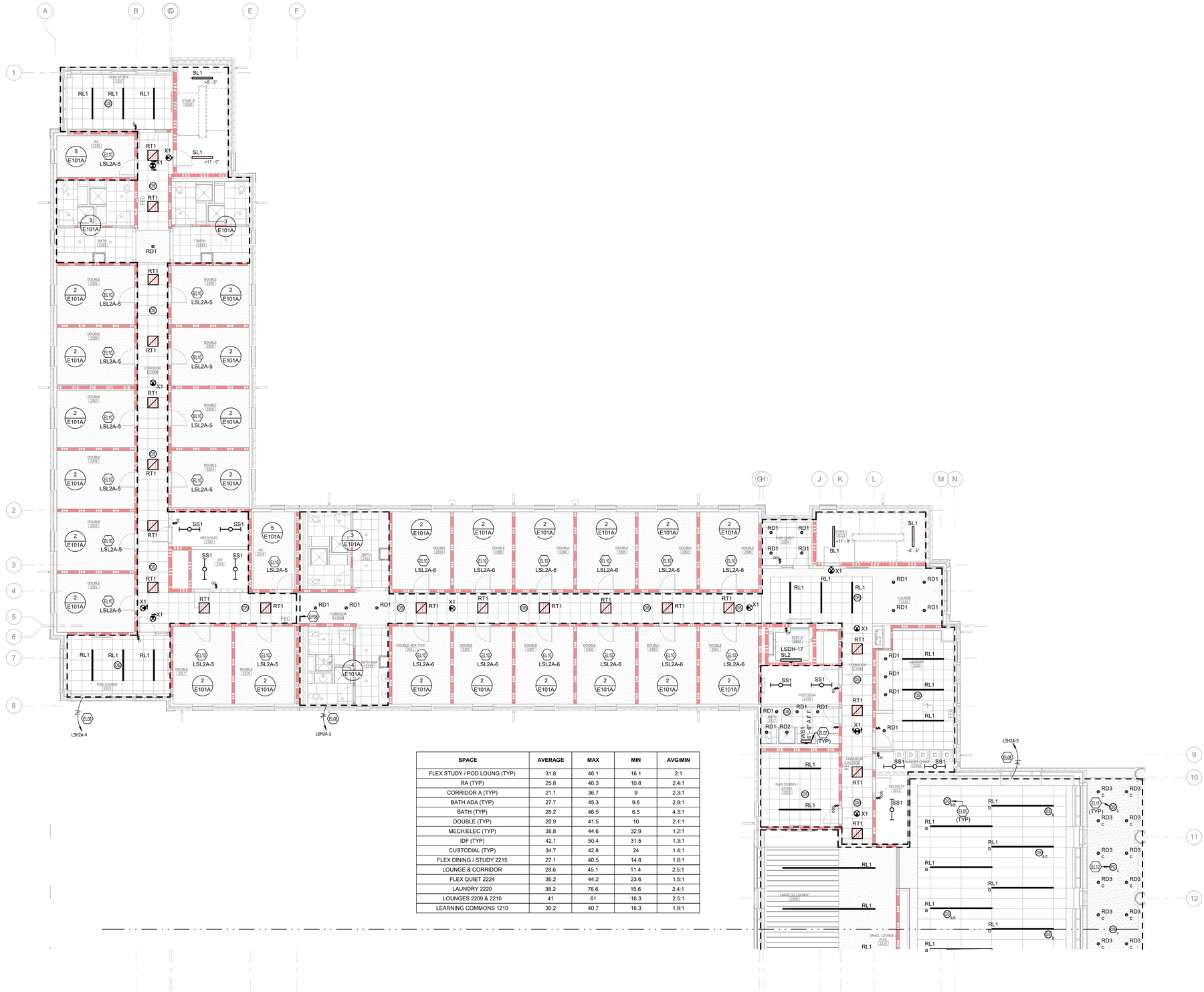
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL 01 - AREA B

SHEET NUMBER
E101B

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
CORRIDOR A (TYP)	21.1	36.7	9	2.3:1
BATH ADA (TYP)	27.7	45.3	9.6	2.9:1
BATH (TYP)	28.2	46.5	6.5	4.3:1
DOUBLE (TYP)	20.9	41.5	10	2.1:1
MECH/ELEC (TYP)	38.8	44.6	32.9	1.2:1
IDF (TYP)	42.1	50.4	31.5	1.3:1
CUSTODIAL (TYP)	34.7	42.8	24	1.4:1
FLEX DINING / STUDY 2215	27.1	40.5	14.8	1.8:1
LOUNGE & CORRIDOR	28.6	45.1	11.4	2.5:1
FLEX QUIET 2224	36.2	44.2	23.6	1.5:1
LAUNDRY 2220	38.2	76.6	15.6	2.4:1
LOUNGES 2209 & 2210	41	61	16.3	2.5:1
LEARNING COMMONS 1210	30.2	40.7	16.3	1.9:1

1 ELECTRICAL LIGHTING PLAN - LEVEL 02 - AREA A

0 1' 2' 4' 8' 16' 24' 32'

1/8" = 1'-0"

SHEET KEYED NOTES

EL05	PROVIDE HIGH BAY OCCUPANCY SENSORS IN THIS SPACE.
EL07	COORDINATE FINAL MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
EL08	CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EL10	CONNECT FIXTURE(S) IN TYPICAL SPACE TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EL11	PROVIDE HIGH BAY OCCUPANCY SENSORS IN THIS SPACE. PROGRAM CONTROLS SUCH THAT FIXTURES IN EXTERIOR PORCH DIM TO 50% OF NORMAL OUTPUT WHEN SPACE IS "UNOCCUPIED".
EL12	PROVIDE PHOTOCELL FOR ON/OFF CONTROLL OF FIXTURES IN EXTERIOR PORCH SPACE.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSTON JOINTS.

LIGHTING - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

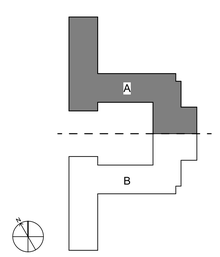
1-HR FIRE BARRIER

FIRE PARTITIONS

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KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E ROMEO

RUNCW25

SCO # 24-29053-02D

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REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

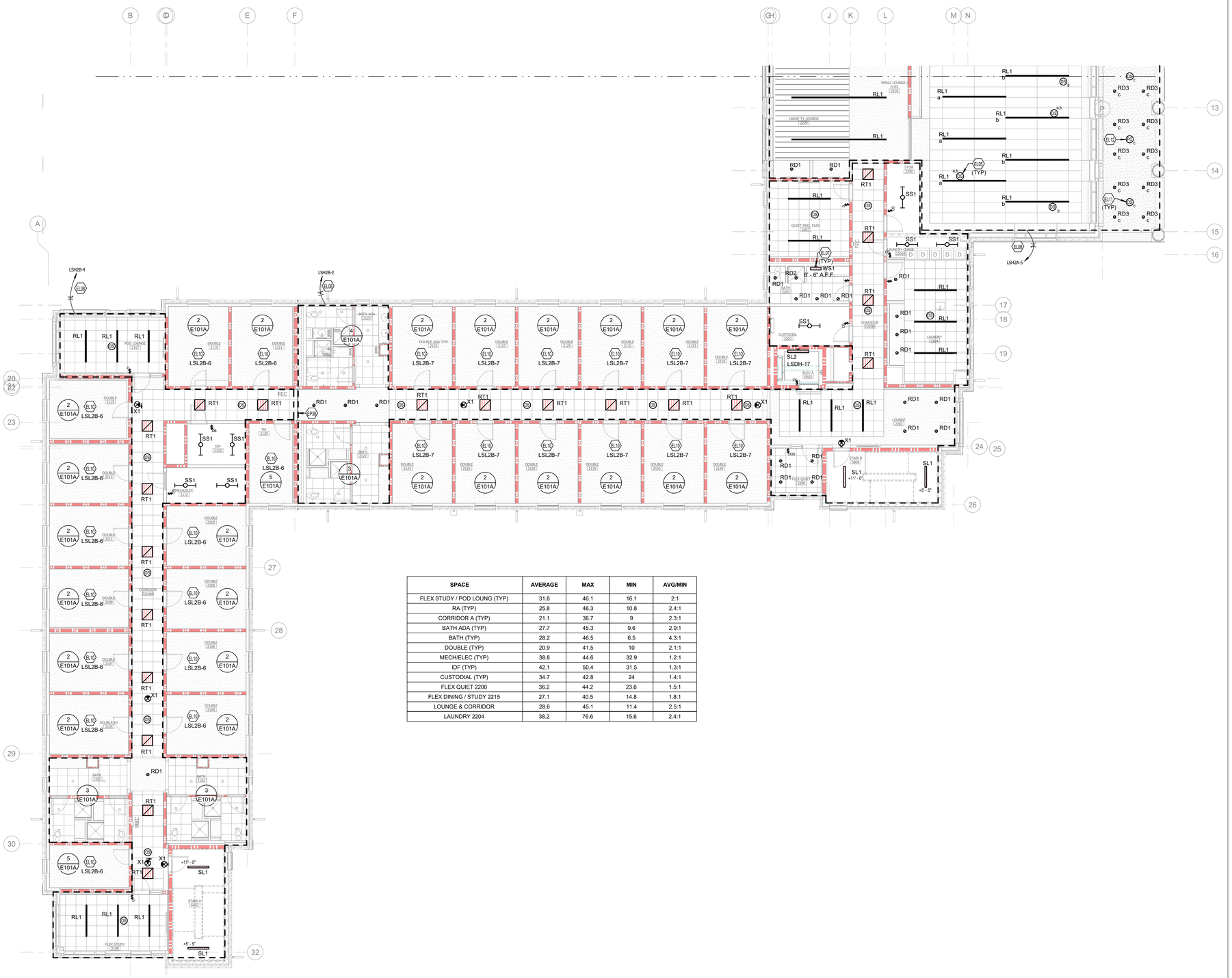
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL 02 - AREA A

SHEET NUMBER
E102A

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
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LOUNGE & CORRIDOR	28.6	45.1	11.4	2.5:1
LAUNDRY 2204	38.2	76.6	15.6	2.4:1

1 ELECTRICAL LIGHTING PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"
0' 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

EL05 PROVIDE HIGH BAY OCCUPANCY SENSORS IN THIS SPACE.
EL07 COORDINATE FINAL MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
EL08 CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
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EL12 PROVIDE PHOTOCELL FOR ON/OFF CONTROLL OF FIXTURES IN EXTERIOR PORCH SPACE.
EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

LIGHTING - GENERAL NOTES

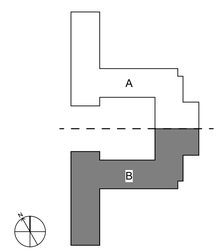
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D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.
J. RELAYS AND/OR ROOM CONTROLLERS SERVING FIXTURES IN AREAS WITH HARD (GYP) CEILING SHALL BE INSTALLED ABOVE NEAREST ACCESSIBLE ACT CEILING.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. RIBER
RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVEL 02 - AREA B

SHEET NUMBER
E102B

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
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CUSTODIAL (TYP)	34.7	42.8	24	1.4:1
LOUNGE, NOOK & CORRIDOR (TYP)	31.9	58.1	5.2	6.1:1

1 ELECTRICAL LIGHTING PLAN - LEVEL 03 - AREA A

0 1' 2' 4' 8' 16' 24' 32'

1/8" = 1'-0"

SHEET KEYED NOTES

EL07	COORDINATE FINAL MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
EL08	CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EL10	CONNECT FIXTURE(S) IN TYPICAL SPACE TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

LIGHTING - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

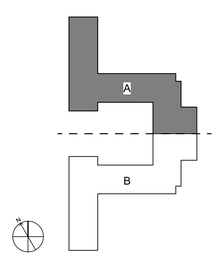
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVELS 03 - AREA A

SHEET NUMBER
E103A

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LOUNGE, NOOK & CORRIDOR (TYP)	31.9	58.1	5.2	6.1:1

1 ELECTRICAL LIGHTING PLAN - LEVEL 03 - AREA B

1/8" = 1'-0"

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

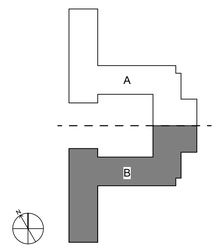
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT

RUNCW25

SCO # 24-29053-02D

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NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

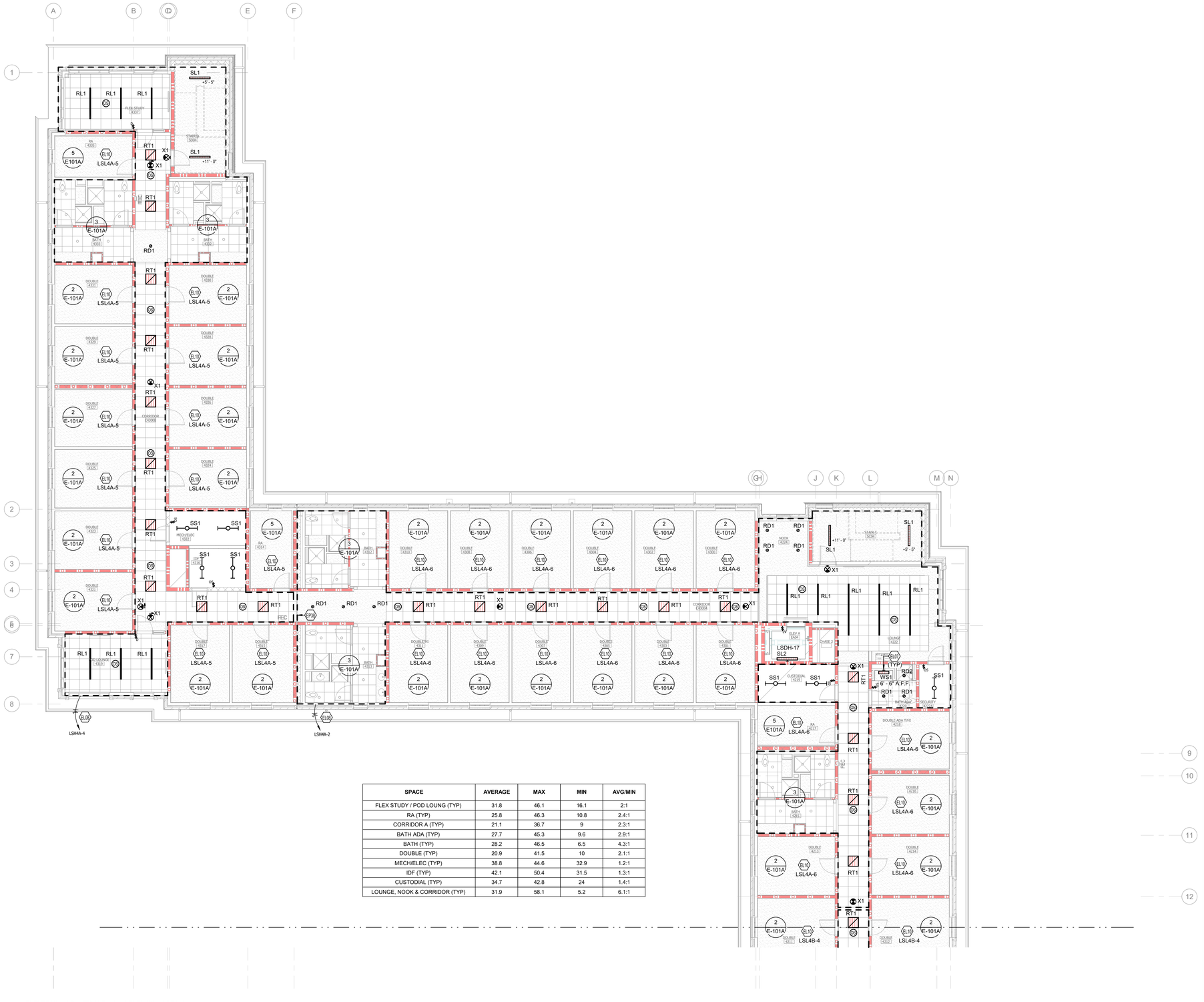
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVELS 03 - AREA B

SHEET NUMBER
E103B

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
CORRIDOR A (TYP)	21.1	36.7	9	2.3:1
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1 ELECTRICAL LIGHTING PLAN - LEVEL 04 - AREA A
1/8" = 1'-0"

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LIGHTING - GENERAL NOTES

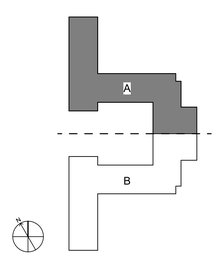
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2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
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KEY PLAN



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RUNCW25

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVELS 04 - AREA A

SHEET NUMBER
E104A

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1 ELECTRICAL LIGHTING PLAN - LEVEL 04 - AREA B

0 1' 2' 4' 8' 16' 24' 32'

1/8" = 1'-0"

SHEET KEYED NOTES

EL07	COORDINATE FINAL MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
EL08	CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EL10	CONNECT FIXTURE(S) IN TYPICAL SPACE TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

LIGHTING - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

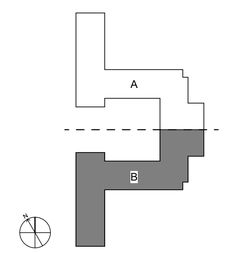
1-HR FIRE BARRIER

FIRE PARTITIONS

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.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. RIBEL

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
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ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

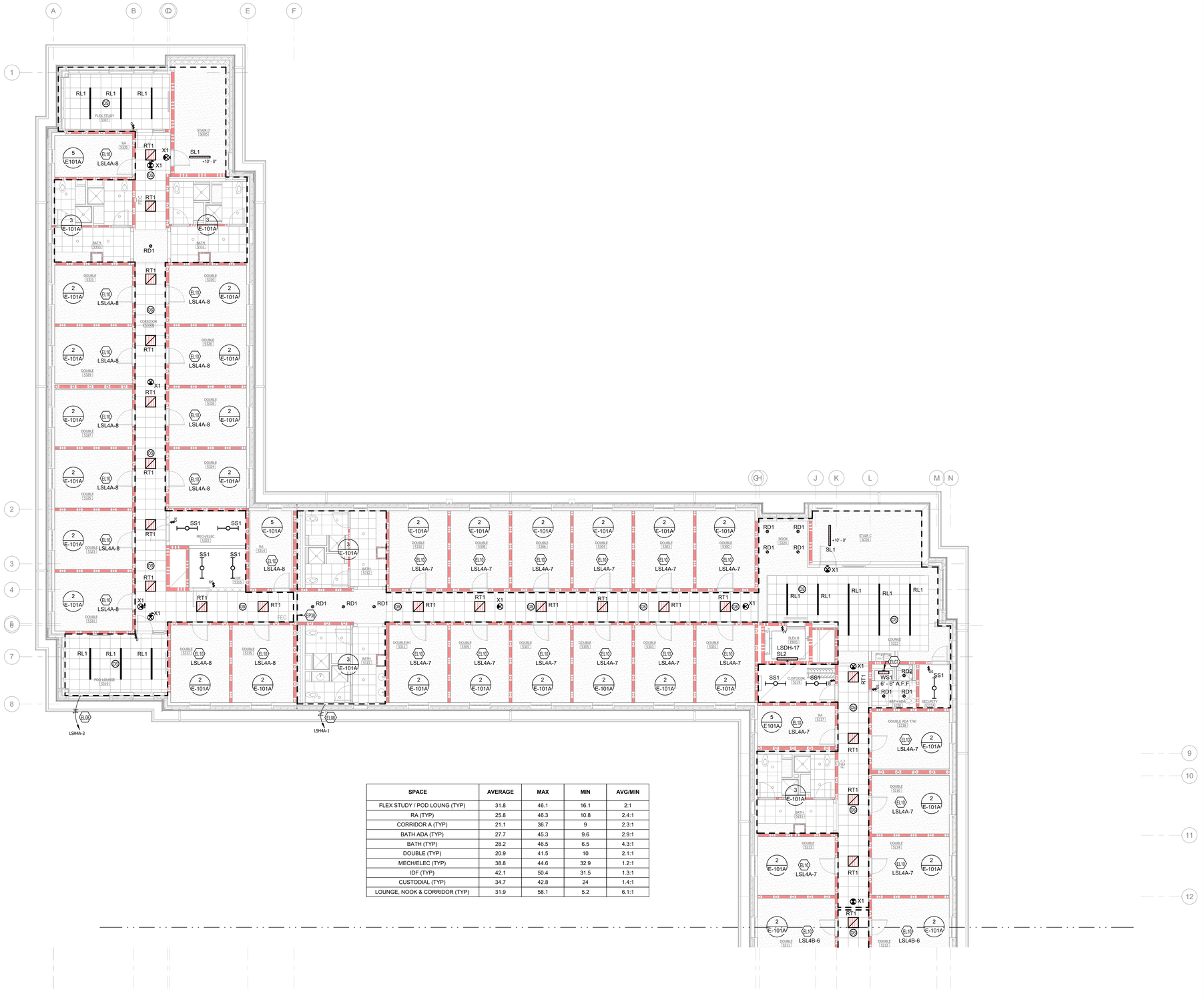
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVELS 04 - AREA B

SHEET NUMBER
E104B

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
RA (TYP)	25.8	46.3	10.8	2.4:1
CORRIDOR A (TYP)	21.1	36.7	9	2.3:1
BATH ADA (TYP)	27.7	45.3	9.6	2.9:1
BATH (TYP)	28.2	46.5	6.5	4.3:1
DOUBLE (TYP)	20.9	41.5	10	2.1:1
MECH/ELEC (TYP)	38.8	44.6	32.9	1.2:1
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1 ELECTRICAL LIGHTING PLAN - LEVEL 05 - AREA A

1/8" = 1'-0"

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SHEET KEYED NOTES

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RATED WALLS AND PARTITIONS

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2-HR FIRE BARRIER

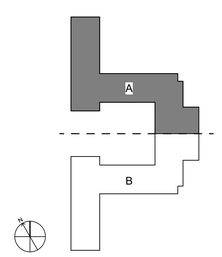
1-HR FIRE BARRIER

FIRE PARTITIONS

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KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
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PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

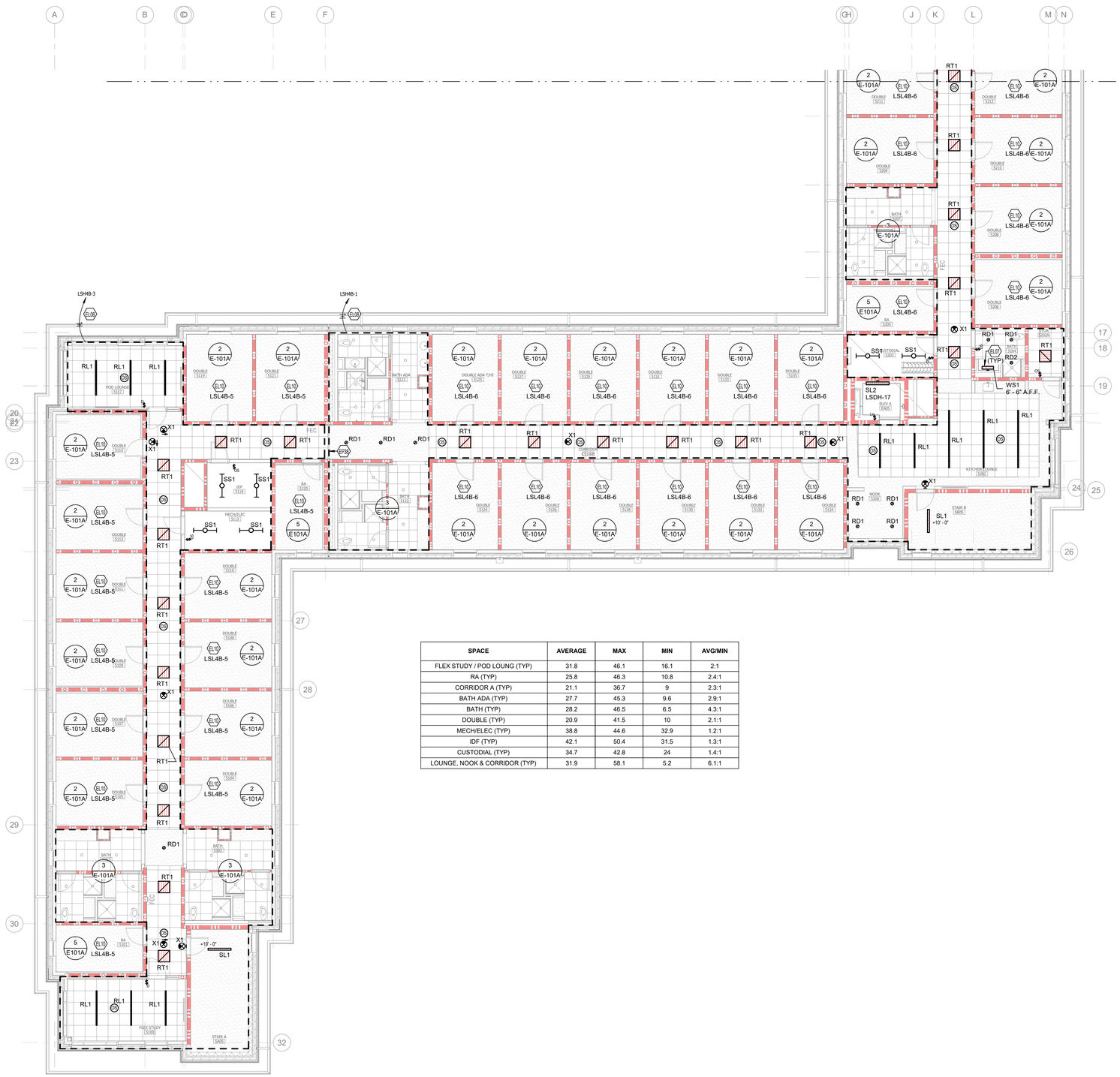
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - LEVELS 05 - AREA A

SHEET NUMBER
E105A

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SPACE	AVERAGE	MAX	MIN	AVG/MIN
FLEX STUDY / POD LOUNG (TYP)	31.8	46.1	16.1	2:1
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1 ELECTRICAL LIGHTING PLAN - LEVEL 05 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

- EL07 COORDINATE FINAL MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
- EL08 CONNECT ALL LIGHT FIXTURES SHOWN WITHIN BOUNDARY TO DESIGNATED LIGHTING PANEL CIRCUIT BREAKER UNLESS OTHERWISE NOTED.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

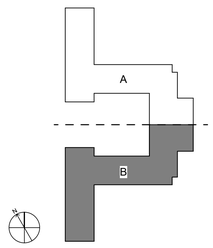
1-HR FIRE BARRIER

FIRE PARTITIONS

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.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY
RUNCW25

SCO # 24-29053-02D

ISSUE FOR: COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE: 01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: MAXWELL SHUELL

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

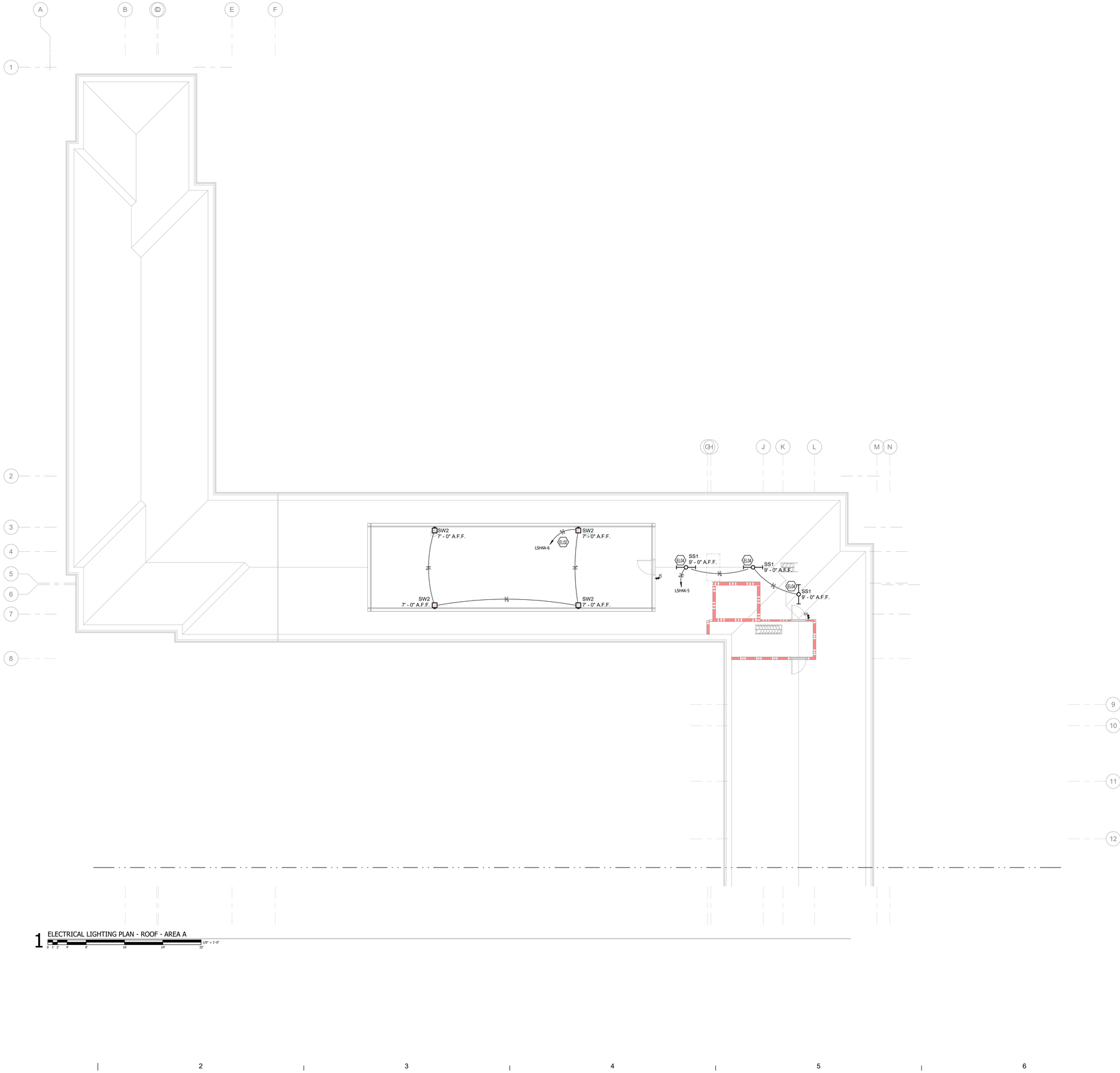
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: ELECTRICAL LIGHTING PLAN - LEVELS 05 - AREA B

SHEET NUMBER: E105B

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1 ELECTRICAL LIGHTING PLAN - ROOF - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

EL02 LOOP CIRCUIT SERVING EXTERIOR FIXTURES THROUGH BUILDING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL.

EL04 FIXTURE LOCATED IN ATTIC SPACE.

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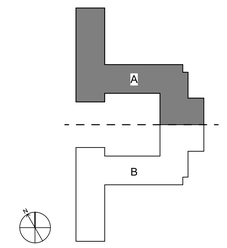
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KEY PLAN



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PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

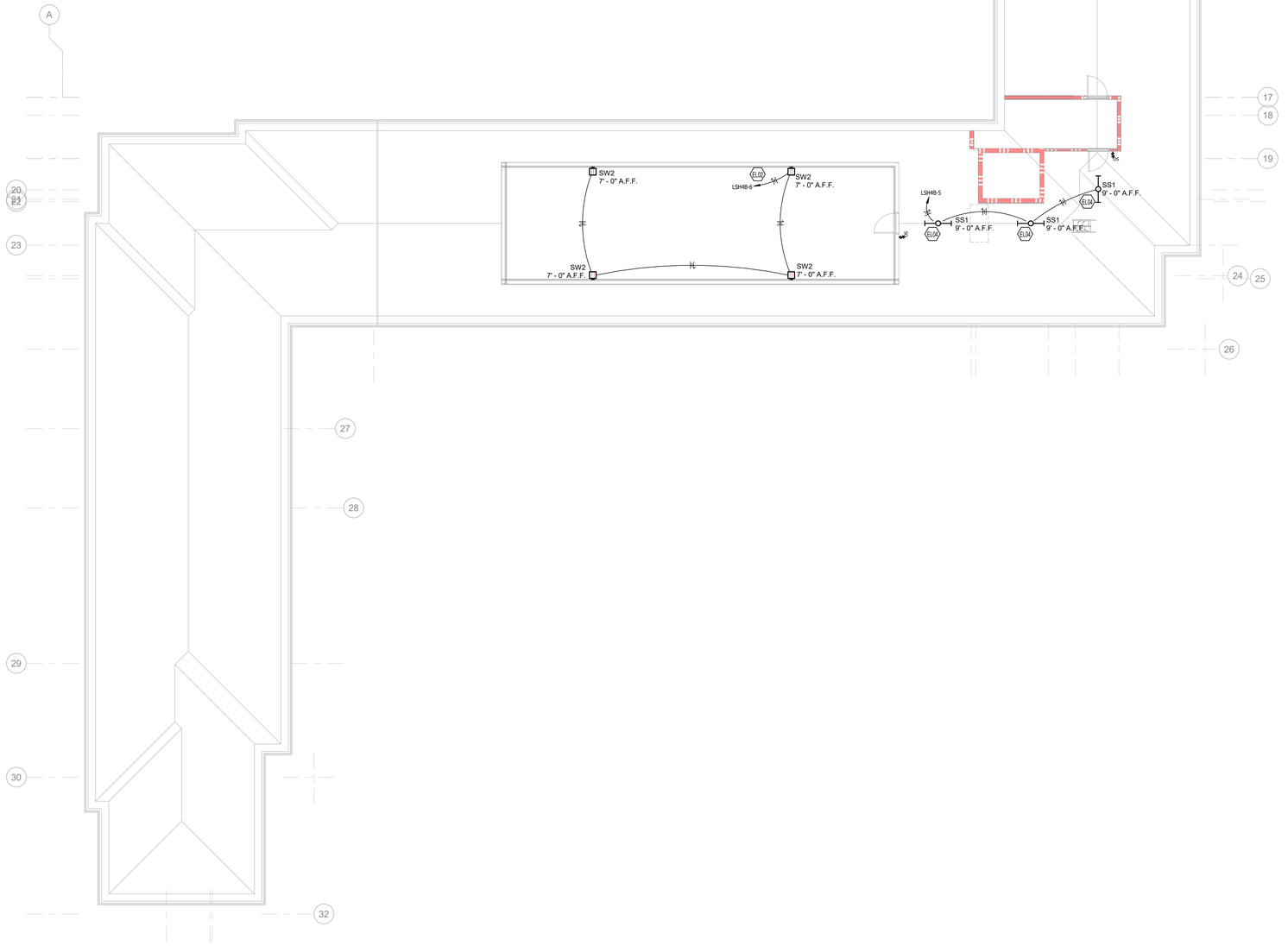
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - ROOF - AREA A

SHEET NUMBER
E106A

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1 ELECTRICAL LIGHTING PLAN - ROOF - AREA B

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

EL02 LOOP CIRCUIT SERVING EXTERIOR FIXTURES THROUGH BUILDING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL.

EL04 FIXTURE LOCATED IN ATTIC SPACE.

LIGHTING - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

J. RELAYS AND/OR ROOM CONTROLLERS SERVING FIXTURES IN AREAS WITH HARD (GYP) CEILING SHALL BE INSTALLED ABOVE NEAREST ACCESSIBLE ACT CEILING.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

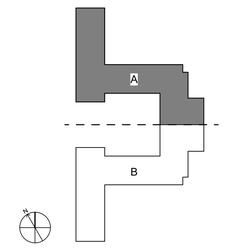
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
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ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTING PLAN - ROOF - AREA B

SHEET NUMBER
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1 ELECTRICAL POWER PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

2 ELECTRICAL POWER ENLARGED PLAN - MECH/ELEC 1322
1/4" = 1'-0"

3 ELECTRICAL POWER TYPICAL PLAN - DOUBLE UNIT
1/4" = 1'-0"

4 ELECTRICAL POWER ENLARGED PLAN - IDF 1316
1/4" = 1'-0"

5 ELECTRICAL POWER ENLARGED PLAN - SECURITY 1219
1/4" = 1'-0"

6 ELECTRICAL POWER TYPICAL PLAN - RA ROOM
1/4" = 1'-0"

ELECTRICAL - FLOOR BOX SCHEDULE

LABEL	DESCRIPTION	BASIS OF DESIGN	APPROVED ALTERNATE MANUFACTURERS	POWER	DATA	NOTES
FB1	4-GANG RECESSED CONCRETE FLOORBOX	HUBBEL CFB4G30CI W/ COMPATIBLE ALUMINUM COVER	LEVITON, LEGRAND	(4) DUPLEX RECEPTACLES	NONE	ARCHITECT TO SELECT FINISH OF COVER

SHEET KEYED NOTES

- EP02 PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.
- EP03 PROVIDE 120V CONNECTION FOR DOOR HARDWARE.
- EP04 PROVIDE DEDICATED 120V CONNECTION TO GFCI OUTLET FOR ELEVATOR PIT SUMP PUMP. ROUTE CIRCUIT THROUGH CONTROL PANEL TO OUTLET IN ACCORDANCE WITH MANUFACTURER GUIDELINES. PROVIDE OUTLET WITH LOCKABLE WEATHERPROOF COVER.
- EP05 PROVIDE 120V CONNECTION FOR DOOR ACCESS CONTROL EQUIPMENT.
- EP06 PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.
- EP07 PROVIDE DEDICATED 120V, 20A/1P GFCI CIRCUIT FOR WATER FOUNTAIN.
- EP10 PROVIDE DEDICATED 120V CONNECTION FOR CEILING PROJECTOR SCREEN.
- EP11 PROVIDE DEDICATED 120V CONNECTION FOR WALL-MOUNTED PROJECTOR.
- EP12 PROVIDE DEDICATED 208V, 40A/2P CONNECTION FOR RANGE.
- EP13 PROVIDE SWITCH AT 42" AFF FOR HOOD LIGHTS.
- EP14 PROVIDE SWITCH AT 42" AFF FOR HOOD FAN.
- EP15 PROVIDE 120V CONNECTION FOR HOOD.
- EP27 PROVIDE 120 CONNECTION TO MOTORIZE ROLLER SHADES.
- EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
- EP44 CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.
- EP45 PROVIDE 120V CONNECTION FOR AUTOMATIC DOOR OPERATOR.
- EP46 PROVIDE 120V CONNECTION FOR ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE FINAL LOCATION WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- EP47 PROVIDE SINGLE-GANG BACKBOX AND 3/4" CONDUIT FROM SWITCH LOCATION TO TERMINATION POINT AT PROJECTOR SCREEN MOTOR. INSTALL VENDOR-FURNISHED SWITCH STATION FOR PROJECTOR SCREEN AND INSTALL VENDOR-FURNISHED CONTROLS CABLING FROM SWITCH TO SCREEN.
- EP48 PROVIDE 3/4" CONDUIT FROM AV RACK LOCATION IN STOR 1210AA TO PROJECTOR LOCATION FOR AV CABLING.

POWER - GENERAL NOTES

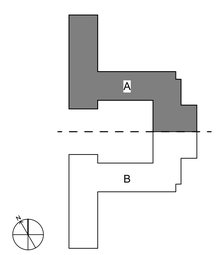
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D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
- 2-HR FIRE BARRIER
- 1-HR FIRE BARRIER

FIRE PARTITIONS
- 1-HR FIRE PARTITION
- .5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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ISSUE DATE: 01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE: JAMES CURRIE, PE
PROJECT MANAGER: DAN KNOX, PE
DESIGN TEAM: MAXWELL SHUELL

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

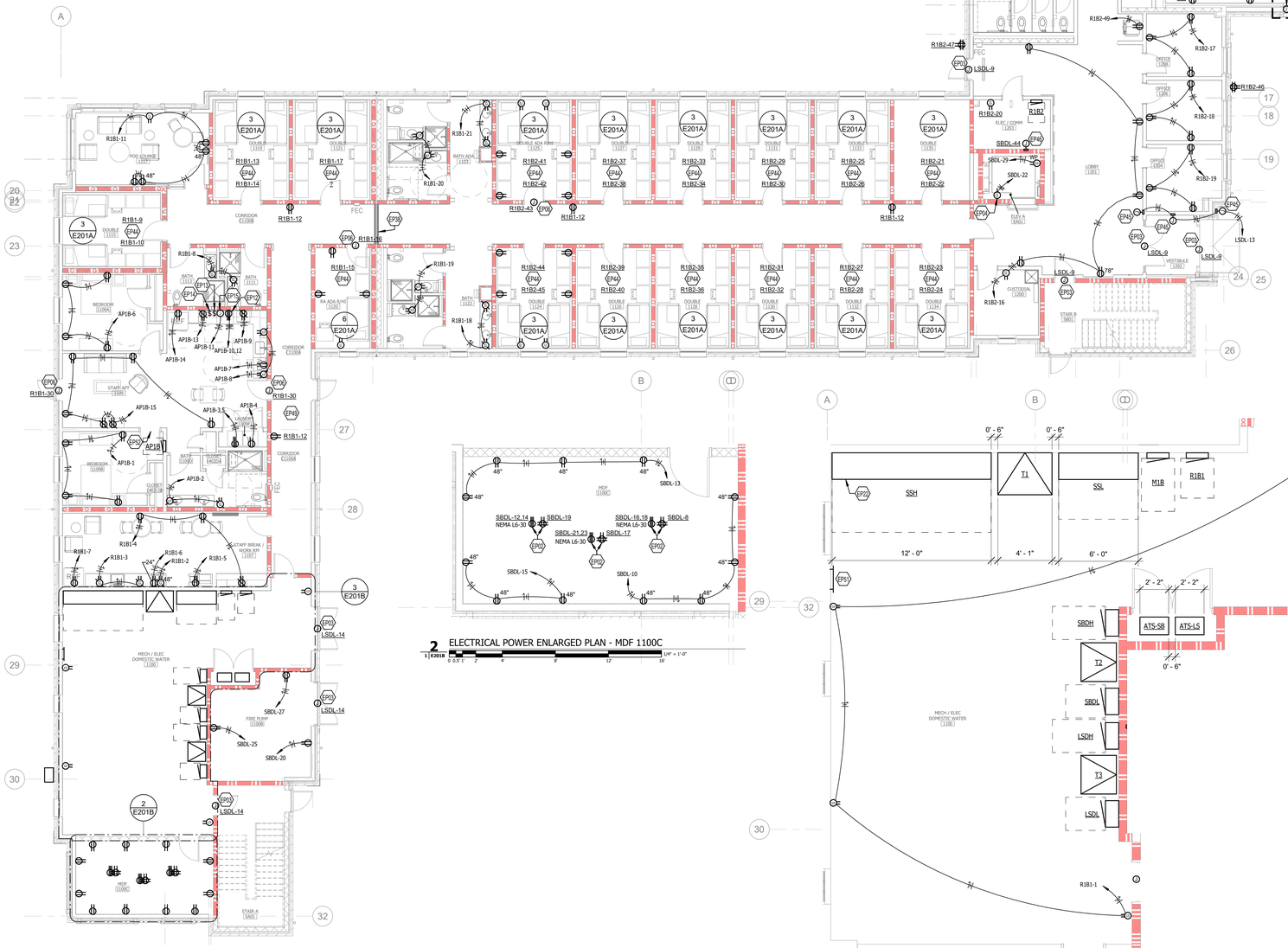
SHEET TITLE: ELECTRICAL POWER PLAN - LEVEL 01 - AREA A

SHEET NUMBER: E201A

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ELECTRICAL - FLOOR BOX SCHEDULE

LABEL	DESCRIPTION	BASIS OF DESIGN	APPROVED ALTERNATE MANUFACTURERS	POWER	DATA	NOTES
FB1	4-GANG RECESSED CONCRETE FLOORBOX	HUBBELL CFB4G30CI W/ COMPATIBLE ALUMINUM COVER	LEVITON, LEGRAND	(4) DUPLEX RECEPTACLES	NONE	ARCHITECT TO SELECT FINISH OF COVER.



SHEET KEYED NOTES

- EP02 PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.
- EP03 PROVIDE 120V CONNECTION FOR DOOR HARDWARE.
- EP04 PROVIDE DEDICATED 120V CONNECTION TO GFCI OUTLET FOR ELEVATOR PIT SUMP PUMP. ROUTE CIRCUIT THROUGH CONTROL PANEL TO OUTLET IN ACCORDANCE WITH MANUFACTURER GUIDELINES. PROVIDE OUTLET WITH LOCKABLE WEATHERPROOF COVER.
- EP06 PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.
- EP10 PROVIDE DEDICATED 120V CONNECTION FOR CEILING PROJECTOR SCREEN.
- EP11 PROVIDE DEDICATED 120V CONNECTION FOR WALL-MOUNTED PROJECTOR.
- EP12 PROVIDE DEDICATED 208V. 40A/2P CONNECTION FOR RANGE.
- EP13 PROVIDE SWITCH AT 42" AFF FOR HOOD LIGHTS.
- EP14 PROVIDE SWITCH AT 42" AFF FOR HOOD FAN.
- EP15 PROVIDE 120V CONNECTION FOR HOOD.
- EP22 PROVIDE DEDICATED TAP SECTION AHEAD OF MAIN SERVICE DISCONNECT FOR FIRE PUMP FEEDER.
- EP27 PROVIDE 120 CONNECTION TO MOTORIZE ROLLER SHADES.
- EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
- EP44 CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.
- EP45 PROVIDE 120V CONNECTION FOR AUTOMATIC DOOR OPERATOR.
- EP46 PROVIDE 120V CONNECTION FOR ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE FINAL LOCATION WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- EP47 PROVIDE SINGLE-GANG BACKBOX AND 3/4" CONDUIT FROM SWITCH LOCATION TO TERMINATION POINT AT PROJECTOR SCREEN MOTOR. INSTALL VENDOR-FURNISHED SWITCH STATION FOR PROJECTOR SCREEN AND INSTALL VENDOR-FURNISHED CONTROLS CABLING FROM SWITCH TO SCREEN.
- EP48 PROVIDE 3/4" CONDUIT FROM AV RACK LOCATION IN STOR 1210AA TO PROJECTOR LOCATION FOR AV CABLING.
- EP49 CONTRACTOR SHALL INSTALL ALL FEEDERS RUNNING DOWN THIS CORRIDOR HIGH AND TIGHT TO STRUCTURE.
- EP51 PROVIDE MAIN GROUNDING BUSBAR. FIELD COORDINATE EXACT LOCATION.
- EP52 PROVIDE VISUAL/STROBE DEVICE FOR VISUAL DOORBELL SYSTEM AT 92" ON WALL ABOVE DOOR (CENTERED). PROVIDE RACEWAYS AND CABLING AS REQUIRED TO CONNECT DEVICE SUCH THAT ACTIVATION OF THE SYSTEM AT EITHER DOOR (EXTERIOR/CORRIDOR) TO APARTMENT SHALL TRIGGER DEVICE TO STROBE.

POWER - GENERAL NOTES

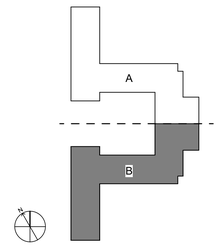
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C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

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PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL 01 - AREA B

SHEET NUMBER
E201B

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2 ELECTRICAL POWER ENLARGED PLAN - MECH/ELEC 2322

1 | E202A 1/4" = 1'-0"

3 ELECTRICAL POWER ENLARGED PLAN - IDF 2316

1 | E202A 1/4" = 1'-0"

4 ELECTRICAL POWER ENLARGED PLAN - SECURITY 2212

1 | E202A 1/4" = 1'-0"

1 ELECTRICAL POWER PLAN - LEVEL 02 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

EP02	PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.
EP06	PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.
EP07	PROVIDE DEDICATED 120V, 20A/1P GFCI CIRCUIT FOR WATER FOUNTAIN.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
EP44	CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

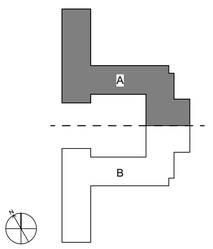
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

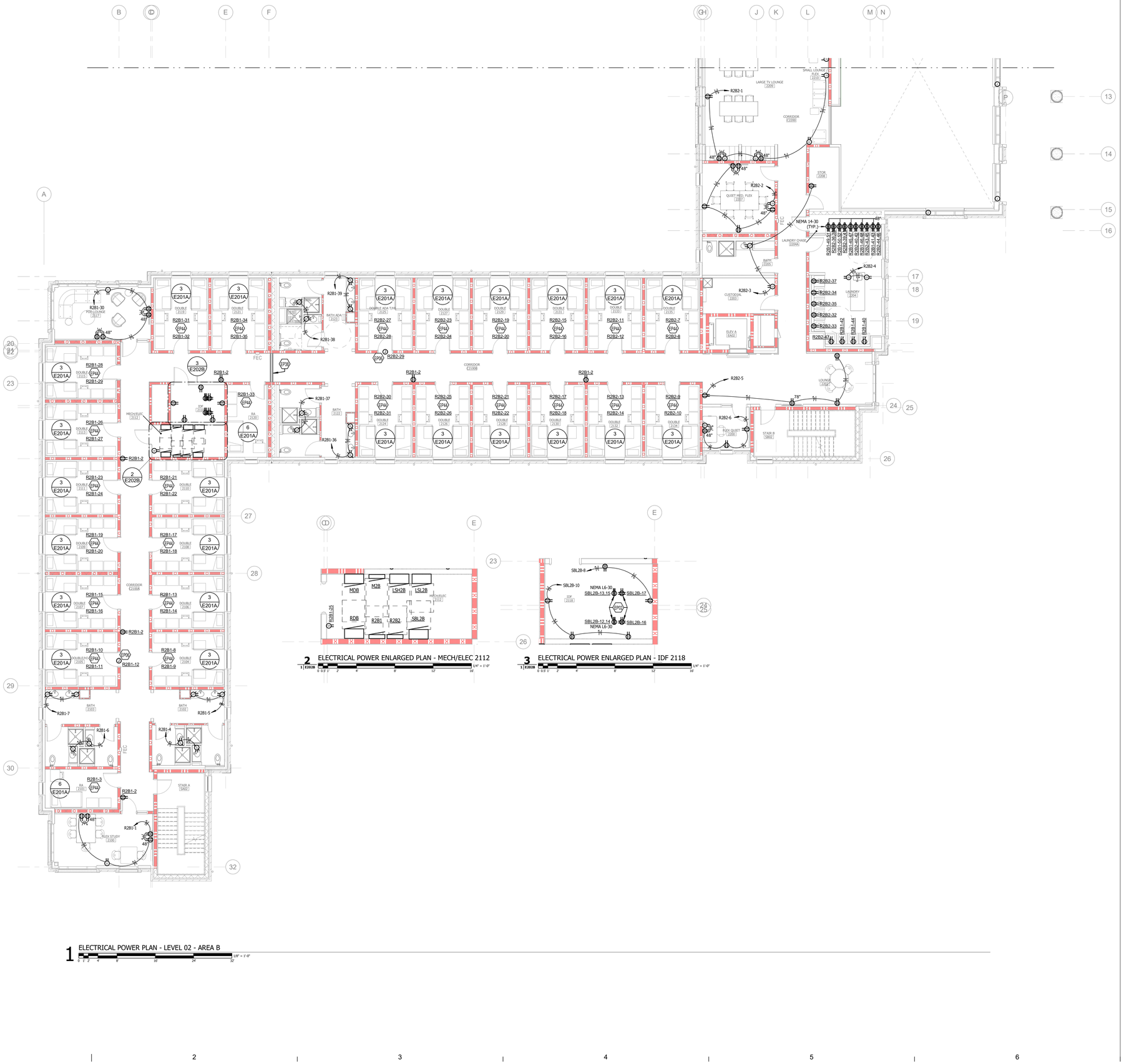
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL 02 - AREA A

SHEET NUMBER
E202A

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SHEET KEYED NOTES

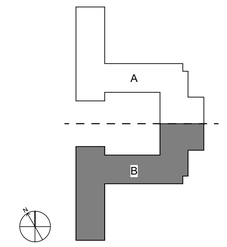
EP02 PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.

EP06 PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.

EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

EP44 CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. RIBBY

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
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ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

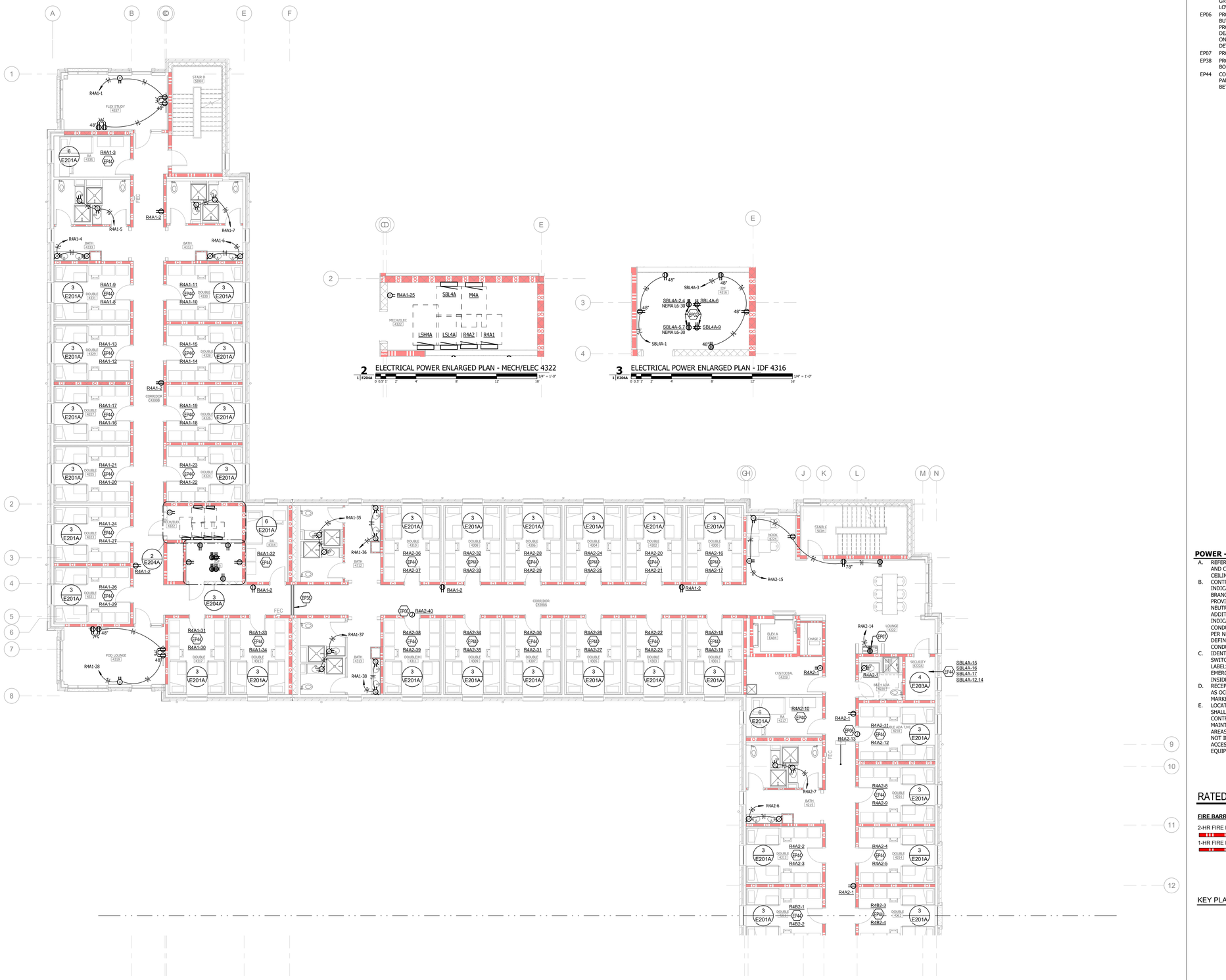
SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL 02 - AREA B

SHEET NUMBER
E202B

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BATH 3311
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BATH 3312
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CORRIDOR 3300B
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POD LOUNGE 3318
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NEMA L6-30 SBL3A-10,12
SBL3A-14
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SBL3A-13
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ROOF 3307A
LOUNGE 3322
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ELEV B 3303
CUSTODIAL 3219
BATH ADA 3220
SECURITY 3320
DOUBLE ADA 3308
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SHEET KEYED NOTES

EP02	PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.
EP06	PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.
EP07	PROVIDE DEDICATED 120V, 20A/1P GFCI CIRCUIT FOR WATER FOUNTAIN.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
EP44	CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.

POWER - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

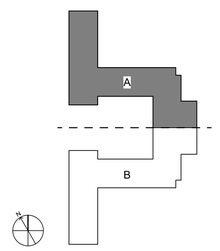
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
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ISSUE DATE
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REVISIONS		
NO.	REASON	DATE

PROJECT TEAM	
PRINCIPAL IN CHARGE	JAMES CURRIE, PE
PROJECT MANAGER	DAN KNOX, PE
DESIGN TEAM	MAXWELL SHUELL

PROJECT NAME

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.

514.23018.00

SHEET TITLE

ELECTRICAL POWER PLAN - LEVEL 04 - AREA A

SHEET NUMBER

E204A

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1 ELECTRICAL POWER PLAN - LEVEL 04 - AREA B
1/8" = 1'-0"

2 ELECTRICAL POWER ENLARGED PLAN - MECH/ELEC 4112
1/4" = 1'-0"

3 ELECTRICAL POWER ENLARGED PLAN - IDF 4118
1/4" = 1'-0"

SHEET KEYED NOTES

EP02 PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.

EP06 PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.

EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

EP44 CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.

POWER - GENERAL NOTES

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

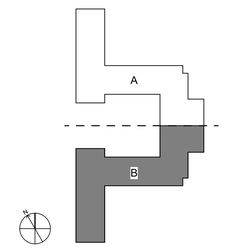
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. REBER

RUNCW25

SCO # 24-29053-02D

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REVISIONS

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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

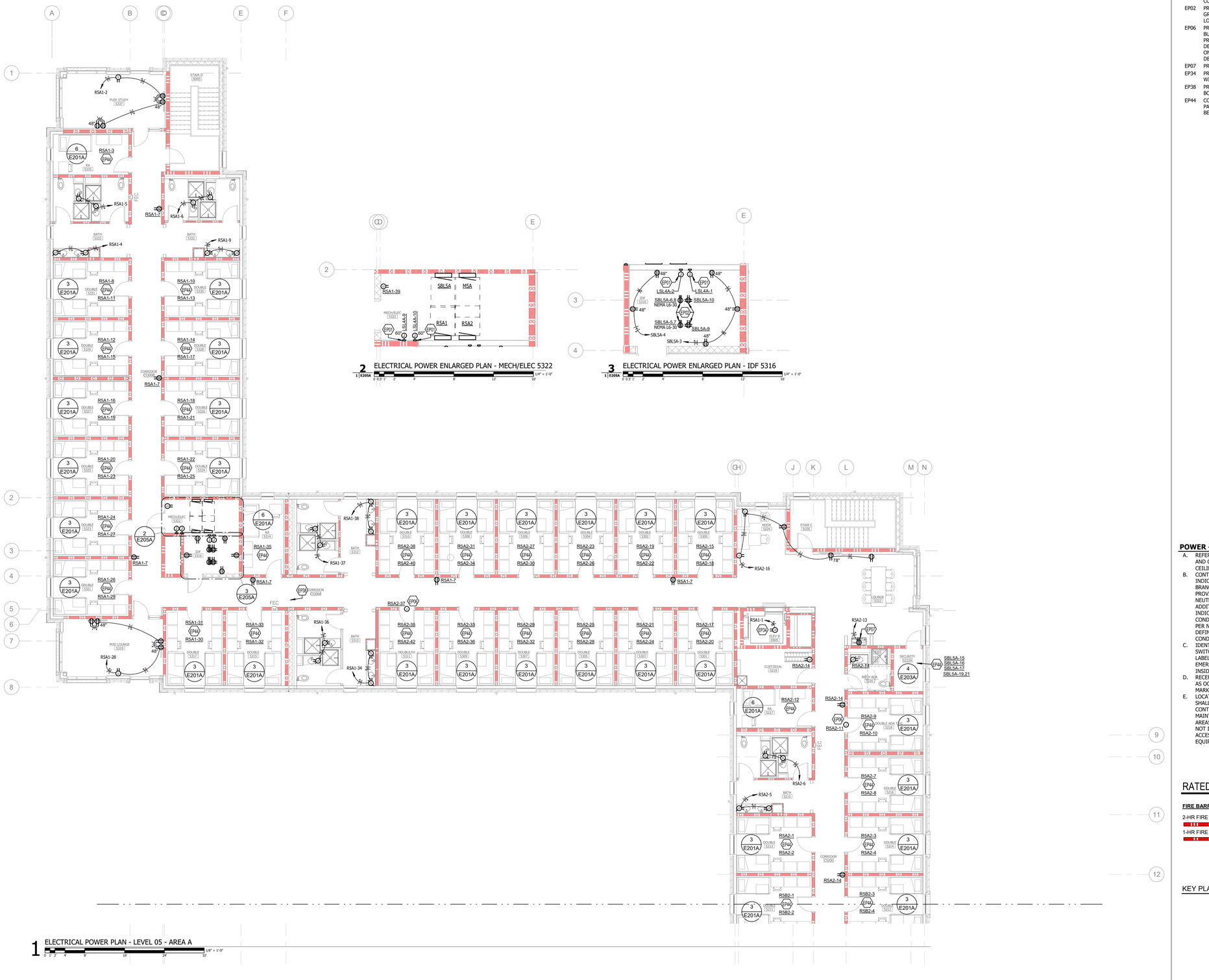
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL 04 - AREA B

SHEET NUMBER
E204B

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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2 ELECTRICAL POWER ENLARGED PLAN - MECH/ELEC 5322
1 E205A 1/4" = 1'-0"

3 ELECTRICAL POWER ENLARGED PLAN - IDF 5316
1 E205A 1/4" = 1'-0"

1 ELECTRICAL POWER PLAN - LEVEL 05 - AREA A
1/8" = 1'-0"

SHEET KEYED NOTES

EP01	PROVIDE DEDICATED 120V CONNECTION FOR ERRCS CABINET. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
EP02	PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.
EP06	PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.
EP07	PROVIDE DEDICATED 120V, 20A/1P GFCI CIRCUIT FOR WATER FOUNTAIN.
EP34	PROVIDE OUTLET AT TOP OF HOISTWAY. COORDINATE EXACT LOCATION WITH ELEVATOR VENDOR PRIOR TO INSTALL.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
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POWER - GENERAL NOTES

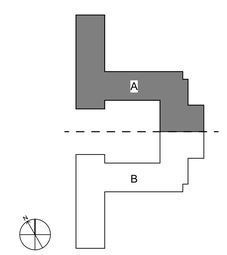
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RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. FORET

RUNCW25

SCO # 24-29053-02D

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PRINCIPAL IN CHARGE	JAMES CURRIE, PE
PROJECT MANAGER	DAN KNOX, PE
DESIGN TEAM	MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL 05 - AREA A

SHEET NUMBER
E205A

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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1/14/2026 1:23:10 AM



2 ELECTRICAL POWER ENLARGED PLAN - MECH/ELEC 5112
1 E205B 1/4" = 1'-0"

3 ELECTRICAL POWER ENLARGED PLAN - IDF 5118
1 E205B 1/4" = 1'-0"

1 ELECTRICAL POWER PLAN - LEVEL 05 - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

- EP02 PROVIDE RECEPTACLE AT LADDER TRAY IN ROOM TO SERVE GROUND-MOUNTED DATA RACK. COORDINATE FINAL LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO INSTALL.
- EP06 PROVIDE 120V CONNECTION FOR VISUAL DOORBELL SYSTEM. PROVIDE BUTTON ON STRIKE-SIDE OF DOOR ON CORRIDOR WALL AT 46" AFF. PROVIDE KEYED SWITCH ABOVE CORRIDOR CEILING FOR MANUAL DEACTIVATION OF SYSTEM. PROVIDE VISUAL/STROBE DEVICE AT 92" AFF ON WALL ABOVE DOOR (CENTERED) IN DOUBLE ROOM. REFER TO DETAIL(S) FOR MORE INFORMATION.
- EP34 PROVIDE OUTLET AT TOP OF HOISTWAY. COORDINATE EXACT LOCATION WITH ELEVATOR VENDOR PRIOR TO INSTALL.
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- EP44 CONNECT OUTLETS IN TYPICAL SPACE TO DESIGNATED RECEPTACLE PANEL CIRCUIT BREAKERS UNLESS OTHERWISE NOTED. SPLIT OUTLETS BETWEEN CIRCUITS AS SHOWN IN TYPICAL VIEW.

POWER - GENERAL NOTES

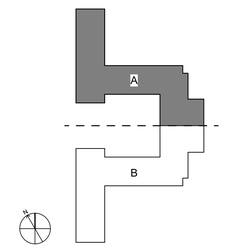
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C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. REBER
RUNCW25

SCO # 24-29053-02D

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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

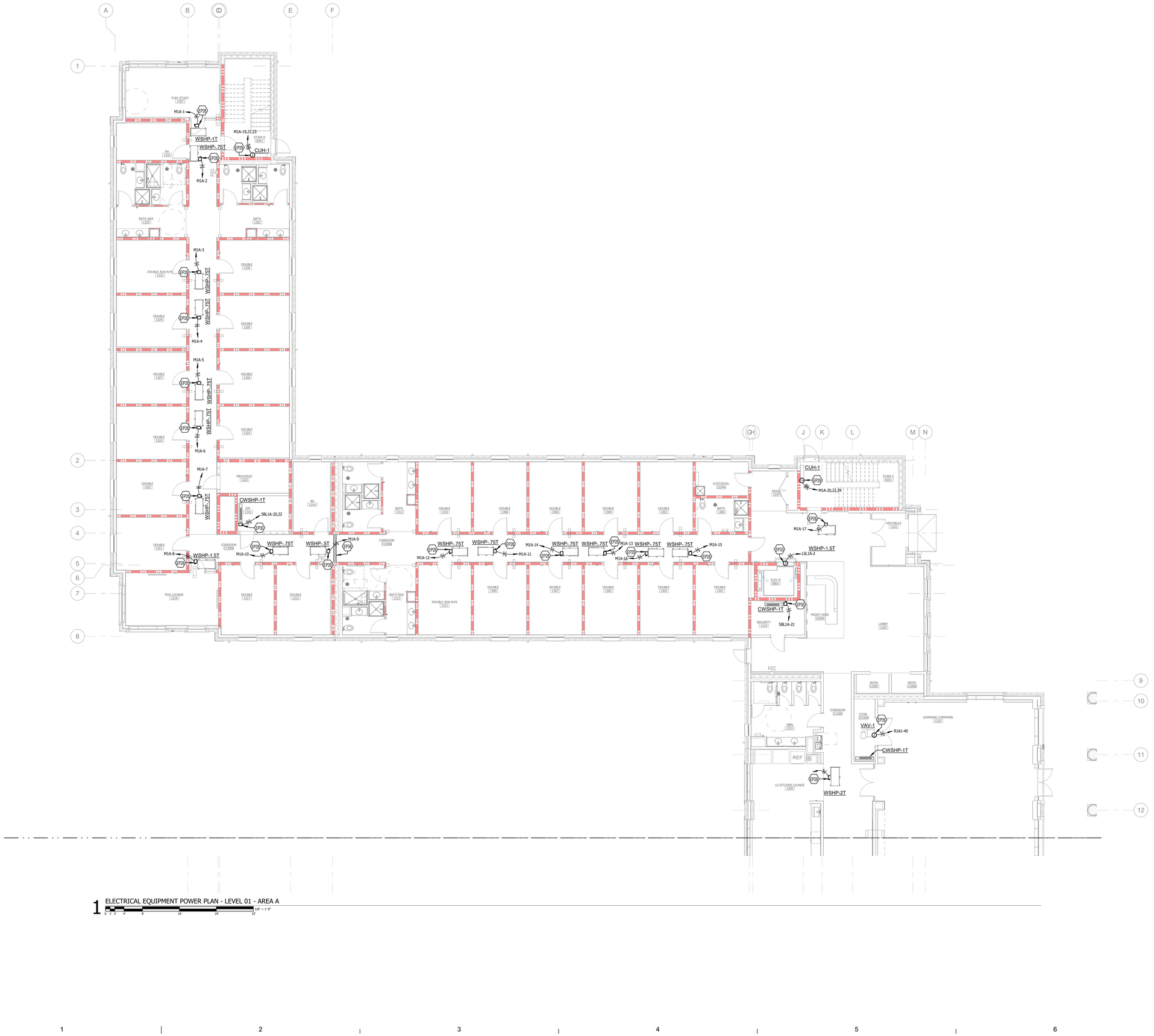
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL POWER PLAN - LEVEL 05 - AREA B

SHEET NUMBER
E205B

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 01 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

EP28	PROVIDE 600V, 30A/1P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
EP29	CONNECT CIRCUIT TO INTEGRAL DISCONNECT AT UNIT.
EP30	PROVIDE 240V, 30A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL/PLUMBING EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
EP33	PROVIDE 120V LIFE SAFETY CONNECTION FOR ELEVATOR SMOKE CURTAIN.
EP35	PROVIDE 120V CONNECTION FOR VAV BOX. CONNECT CIRCUIT TO INTEGRAL DISCONNECT AT UNIT.
EP38	PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

POWER - GENERAL NOTES

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

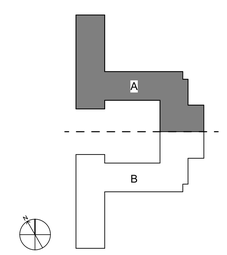
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

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KEY PLAN



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PROJECT MANAGER	DAN KNOX, PE
DESIGN TEAM	MAXWELL SHUELL

PROJECT NAME

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.

514.23018.00

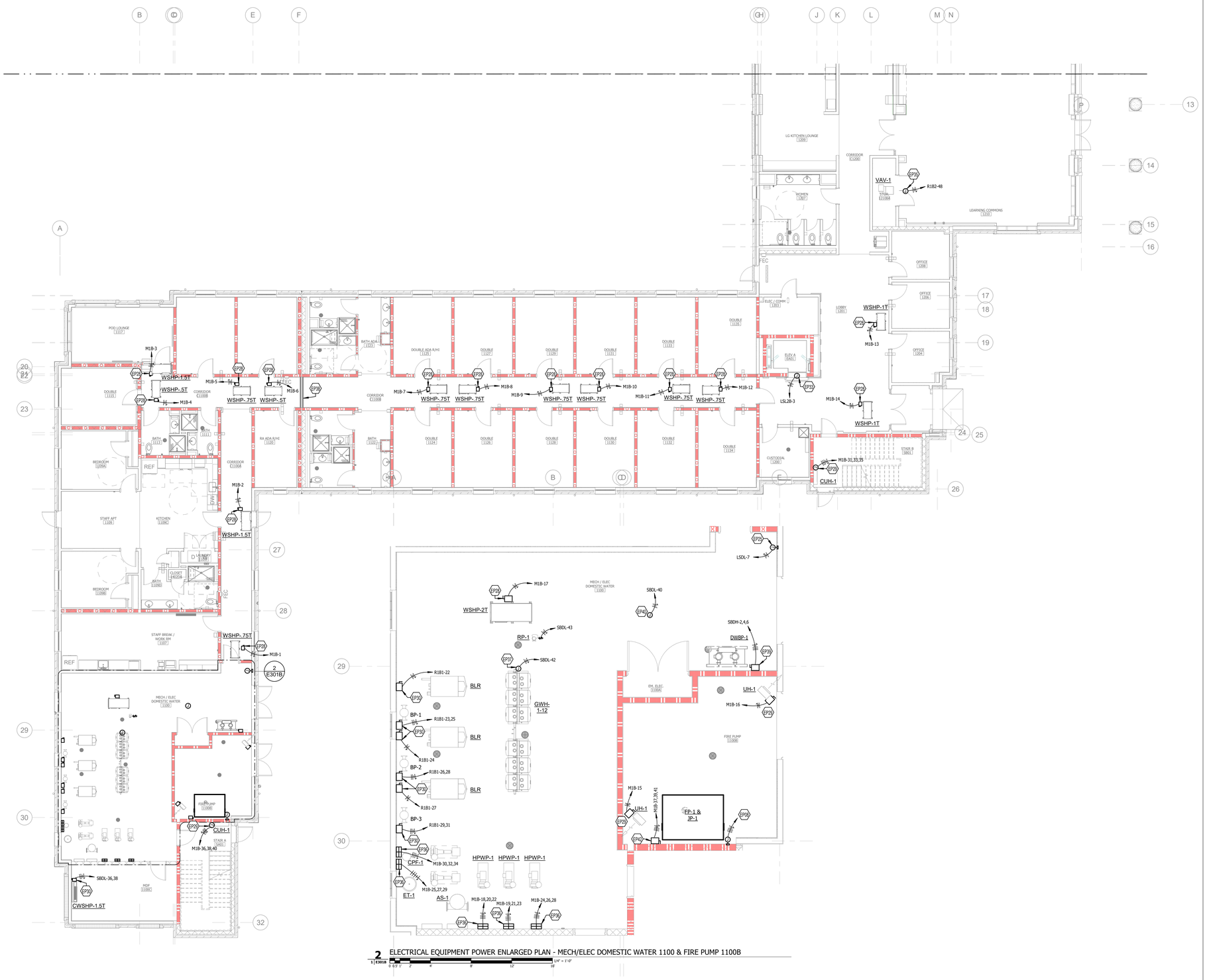
SHEET TITLE

ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 01 - AREA A

SHEET NUMBER

E301A

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 01 - AREA B
1/4" = 1'-0"

2 ELECTRICAL EQUIPMENT POWER ENLARGED PLAN - MECH/ELEC DOMESTIC WATER 1100 & FIRE PUMP 1100B
1/4" = 1'-0"

SHEET KEYED NOTES

- EP08 PROVIDE CONNECTION FOR FIRE PUMP FROM DEDICATED MAIN-LUG ONLY TAP SECTION IN SWITCHBOARD "SSH". EXTEND CIRCUIT THROUGH INTEGRAL ATS IN FIRE PUMP CONTROLLER TO FIRE PUMP AS REQUIRED. REFER TO ONE-LINE DIAGRAM FOR CIRCUIT SIZING INFORMATION.
- EP25 PROVIDE 120V CONNECTION FOR FIRE ALARM CONTROL PANEL.
- EP28 PROVIDE 600V, 30A/1P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- EP29 CONNECT CIRCUIT TO INTEGRAL DISCONNECT AT UNIT.
- EP30 PROVIDE 240V, 30A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL/PLUMBING EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- EP33 PROVIDE 120V LIFE SAFETY CONNECTION FOR ELEVATOR SMOKE CURTAIN.
- EP35 PROVIDE 120V CONNECTION FOR VAV BOX. CONNECT CIRCUIT TO INTEGRAL DISCONNECT AT UNIT.
- EP36 EXTEND CIRCUIT THROUGH VFD (PROVIDED BY DIV 23 CONTRACTOR) TO TERMINATION POINT AT PUMP.
- EP37 PROVIDE 120V CONNECTION FOR GAS WATER HEATER CONTROL PANEL. COORDINATE EXACT CONNECTION LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
- EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
- EP39 PROVIDE 600V, 60A/3P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL/PLUMBING EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
- EP40 PROVIDE 120V CONNECTION FOR CONTROLS CONTRACTOR TO UTILIZE FOR BAS PANEL IN ROOM.
- EP42 PROVIDE 600V, 30A/3P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.

POWER - GENERAL NOTES

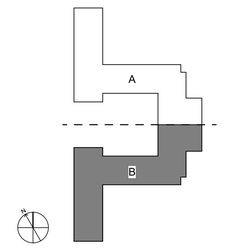
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FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

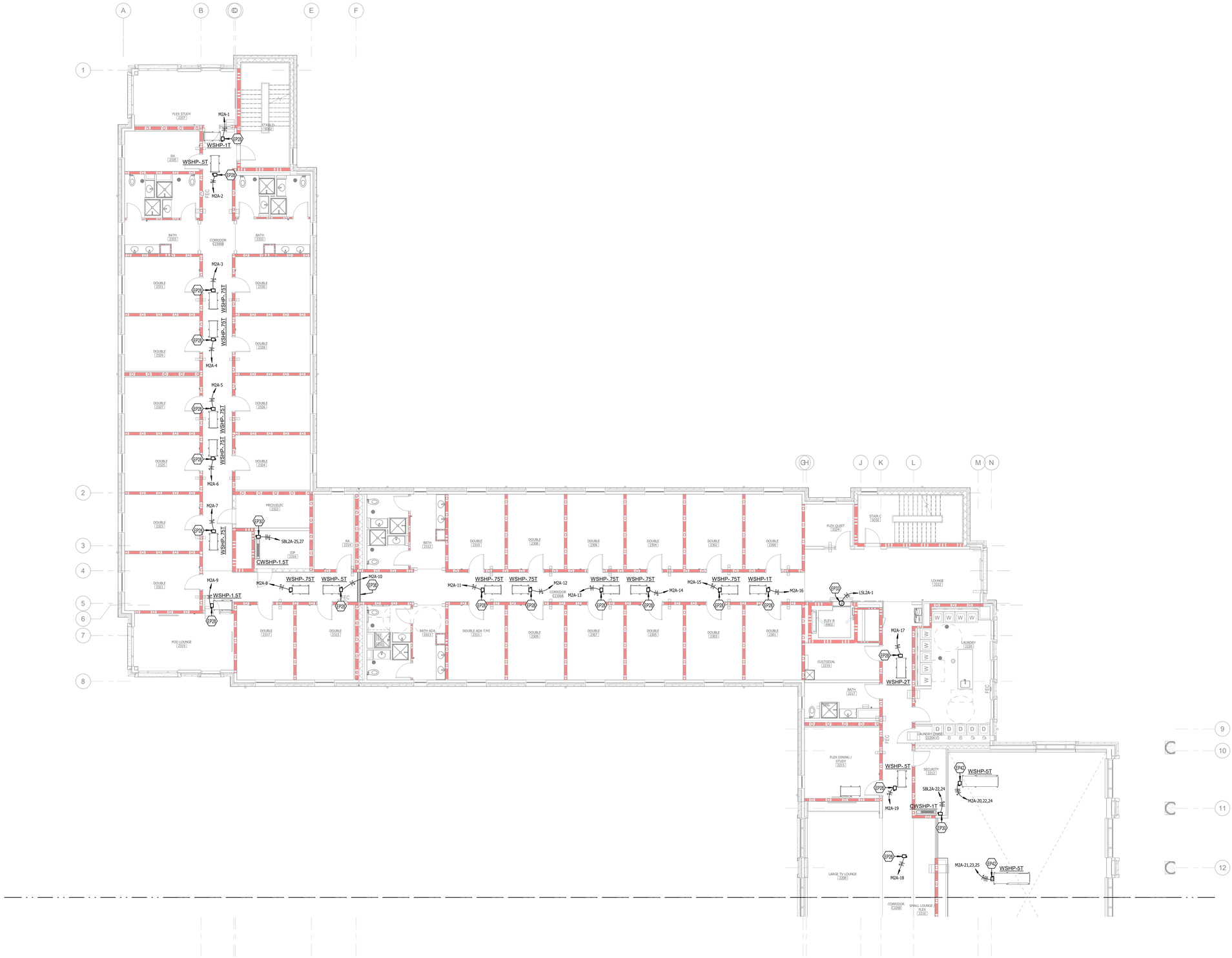
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 01 - AREA B

SHEET NUMBER
E301B

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 02 - AREA A

1/8" = 1'-0"

0 1 2 4 8 16 24 32

SHEET KEYED NOTES

EP28	PROVIDE 600V, 30A/1P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
EP30	PROVIDE 240V, 30A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL/PLUMBING EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
EP33	PROVIDE 120V LIFE SAFETY CONNECTION FOR ELEVATOR SMOKE CURTAIN.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

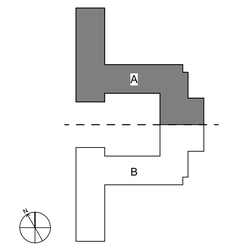
1-HR FIRE BARRIER

FIRE PARTITIONS

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PROJECT NAME
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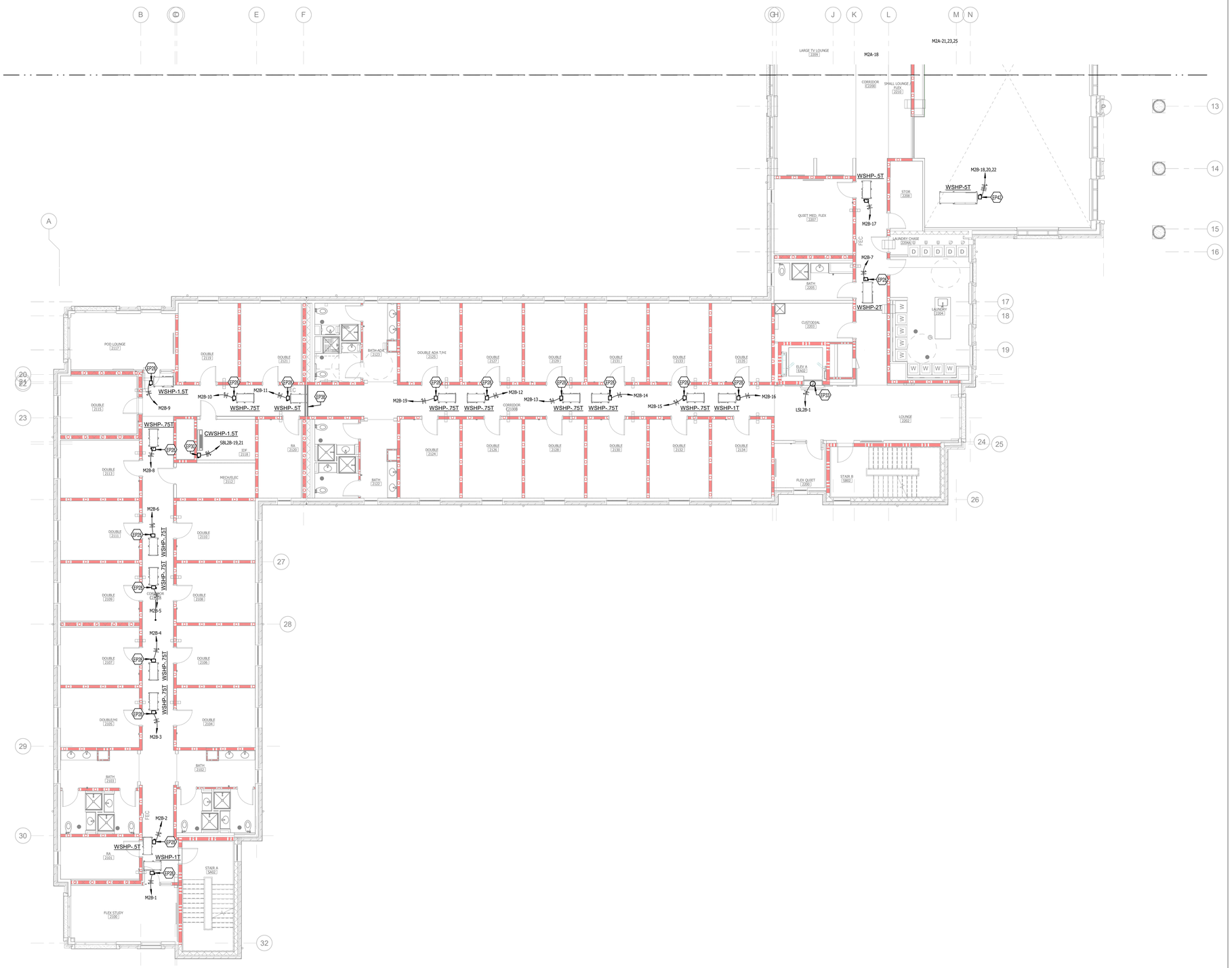
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 02 - AREA A

SHEET NUMBER
E302A

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 02 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

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2-HR FIRE BARRIER

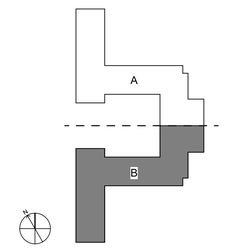
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PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

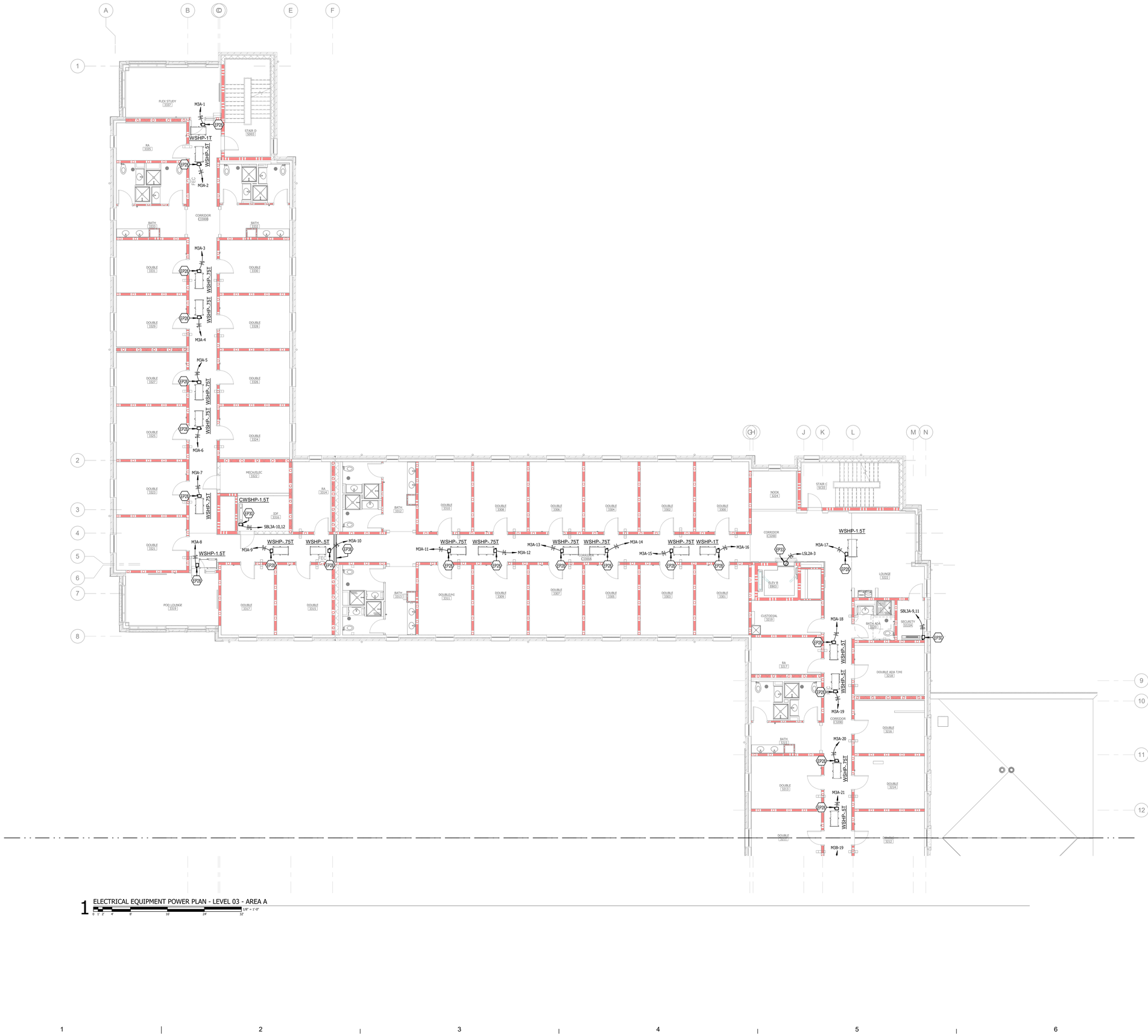
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 02 - AREA B

SHEET NUMBER
E302B

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 03 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

- EP28 PROVIDE 600V, 30A/1P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- EP30 PROVIDE 240V, 30A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL/PLUMBING EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- EP33 PROVIDE 120V LIFE SAFETY CONNECTION FOR ELEVATOR SMOKE CURTAIN.
- EP38 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

POWER - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

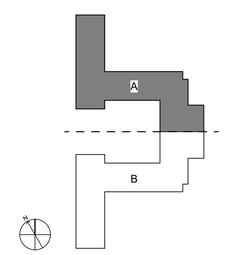
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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410 Blackwell Street, Suite 10
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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS		
NO.	REASON	DATE

PROJECT TEAM	
PRINCIPAL IN CHARGE	JAMES CURRIE, PE
PROJECT MANAGER	DAN KNOX, PE
DESIGN TEAM	MAXWELL SHUELL

PROJECT NAME

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.

514.23018.00

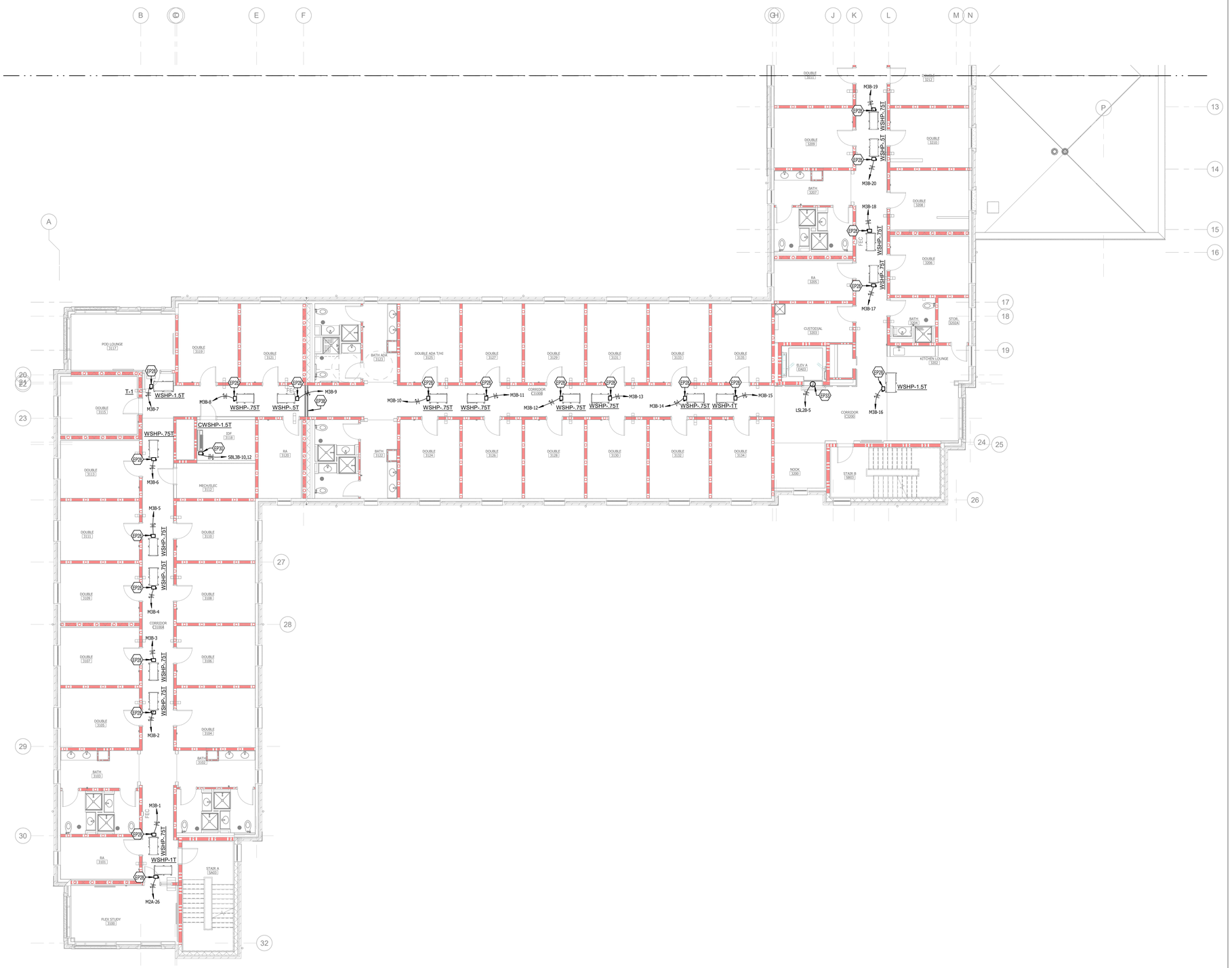
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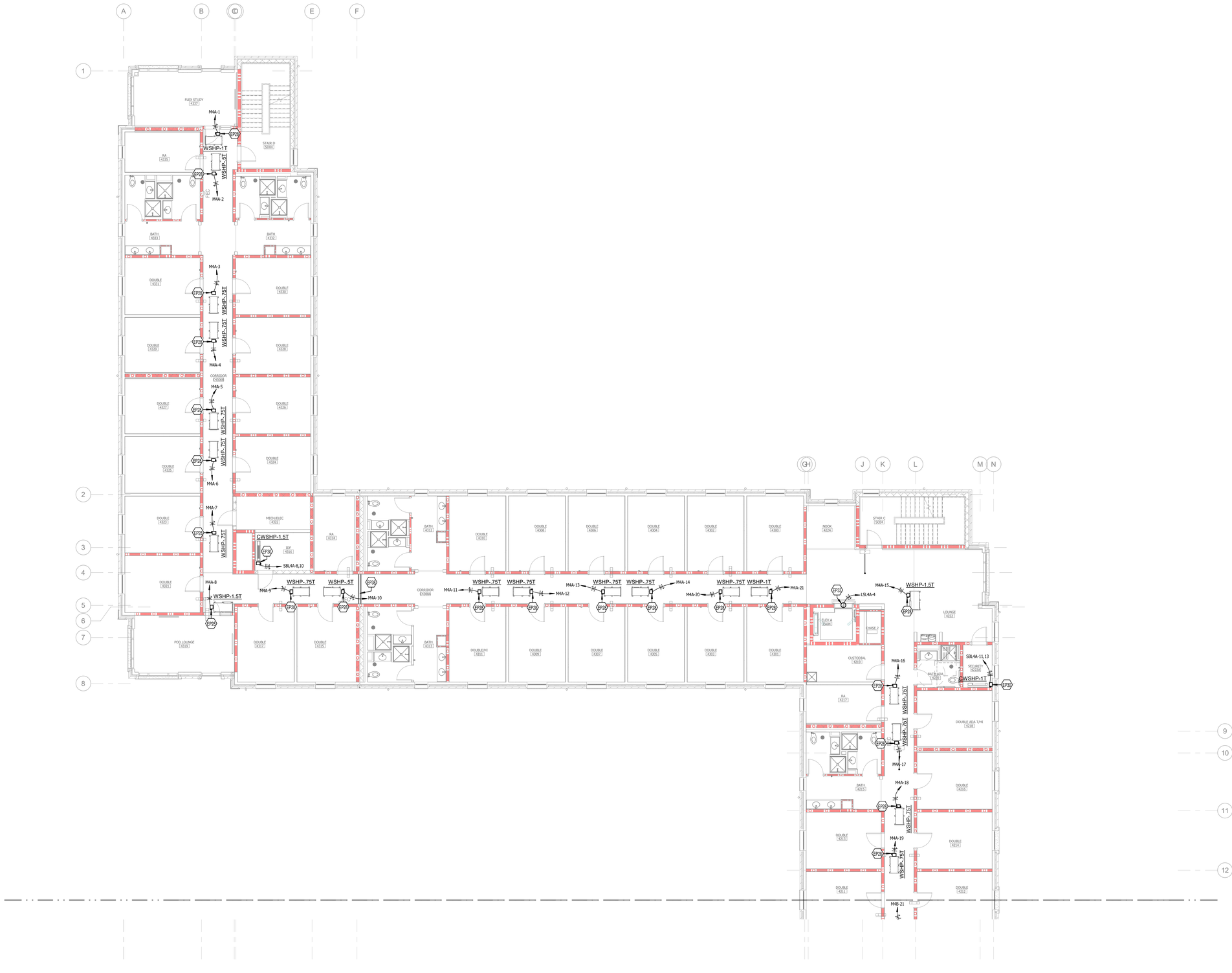
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 03 - AREA A

SHEET NUMBER

E303A

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DOUBLE 3119
DOUBLE 3121
BATH ADA 3123
DOUBLE ADA T/HI 3125
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DOUBLE



SHEET KEYED NOTES

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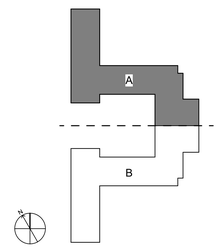
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: MAXWELL SHUELL

PROJECT NAME

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.

514.23018.00

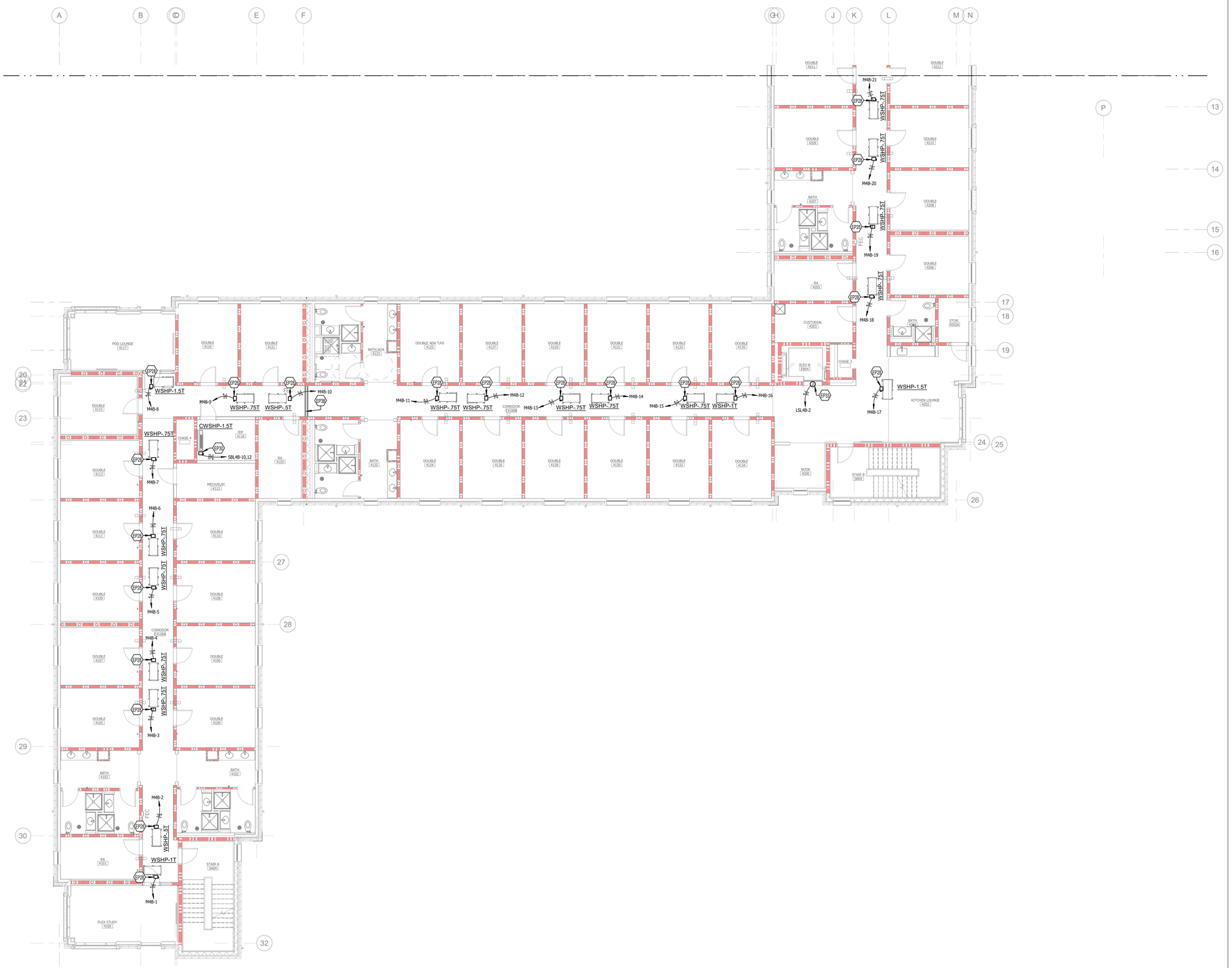
SHEET TITLE

ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 04 - AREA A

SHEET NUMBER

E304A

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 04 - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

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POWER - GENERAL NOTES

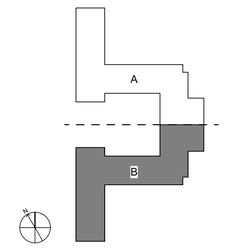
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RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

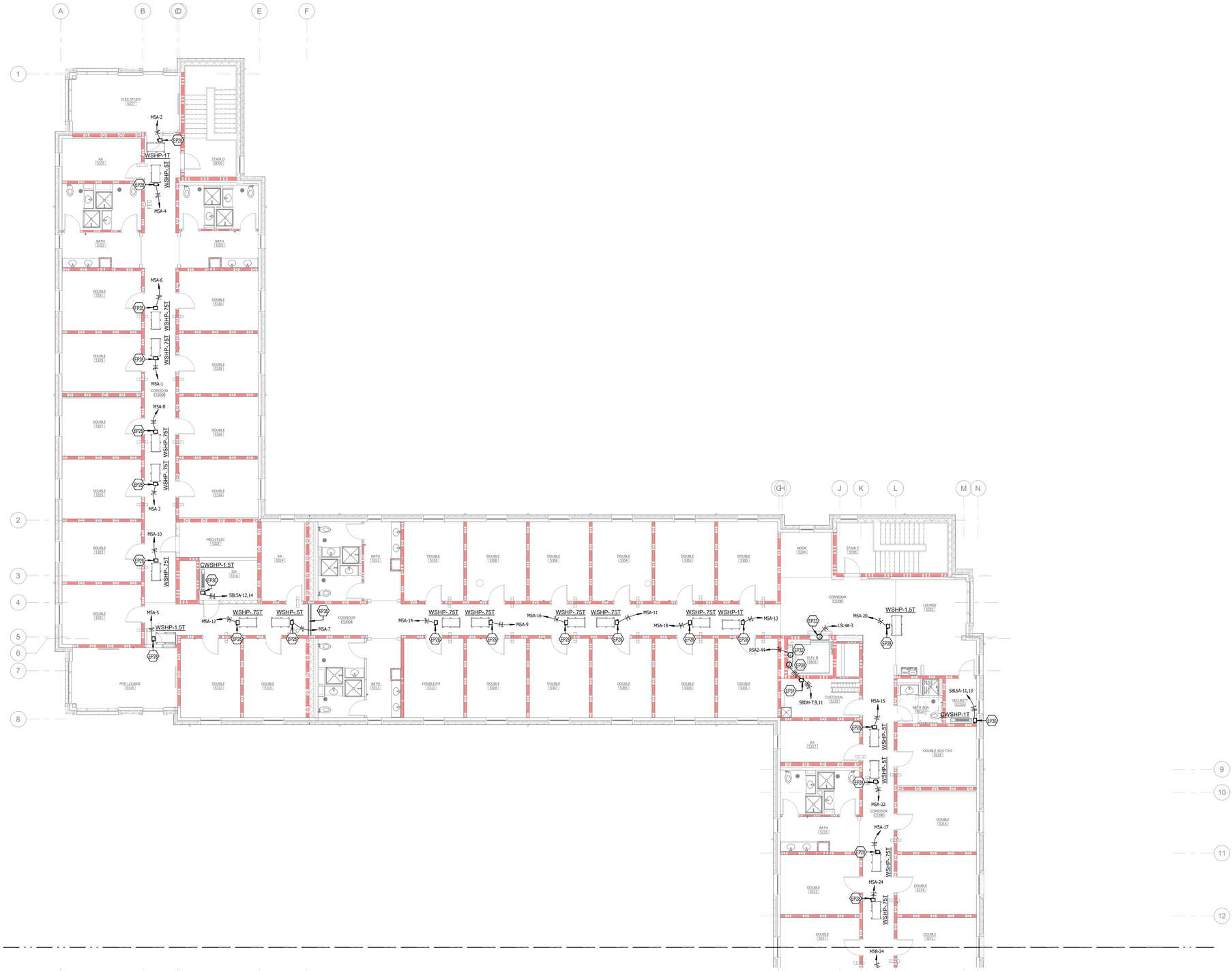
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 04 - AREA B

SHEET NUMBER
E304B

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SHEET KEYED NOTES

EP09	PROVIDE 480V/3PH CONNECTION TO ELEVATOR CONTROLLER.
EP28	PROVIDE 600V, 30A/1P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
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EP31	PROVIDE 600V, 60A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR ELEVATOR. EXTEND CIRCUIT THROUGH DISCONNECT TO ELEVATOR CONTROLLER.
EP32	PROVIDE 120V CONNECTION AT ELEVATOR CONTROLLER.
EP33	PROVIDE 120V LIFE SAFETY CONNECTION FOR ELEVATOR SMOKE CURTAIN.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

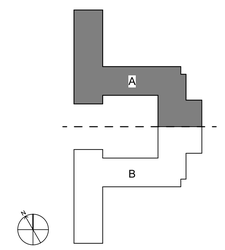
1-HR FIRE BARRIER

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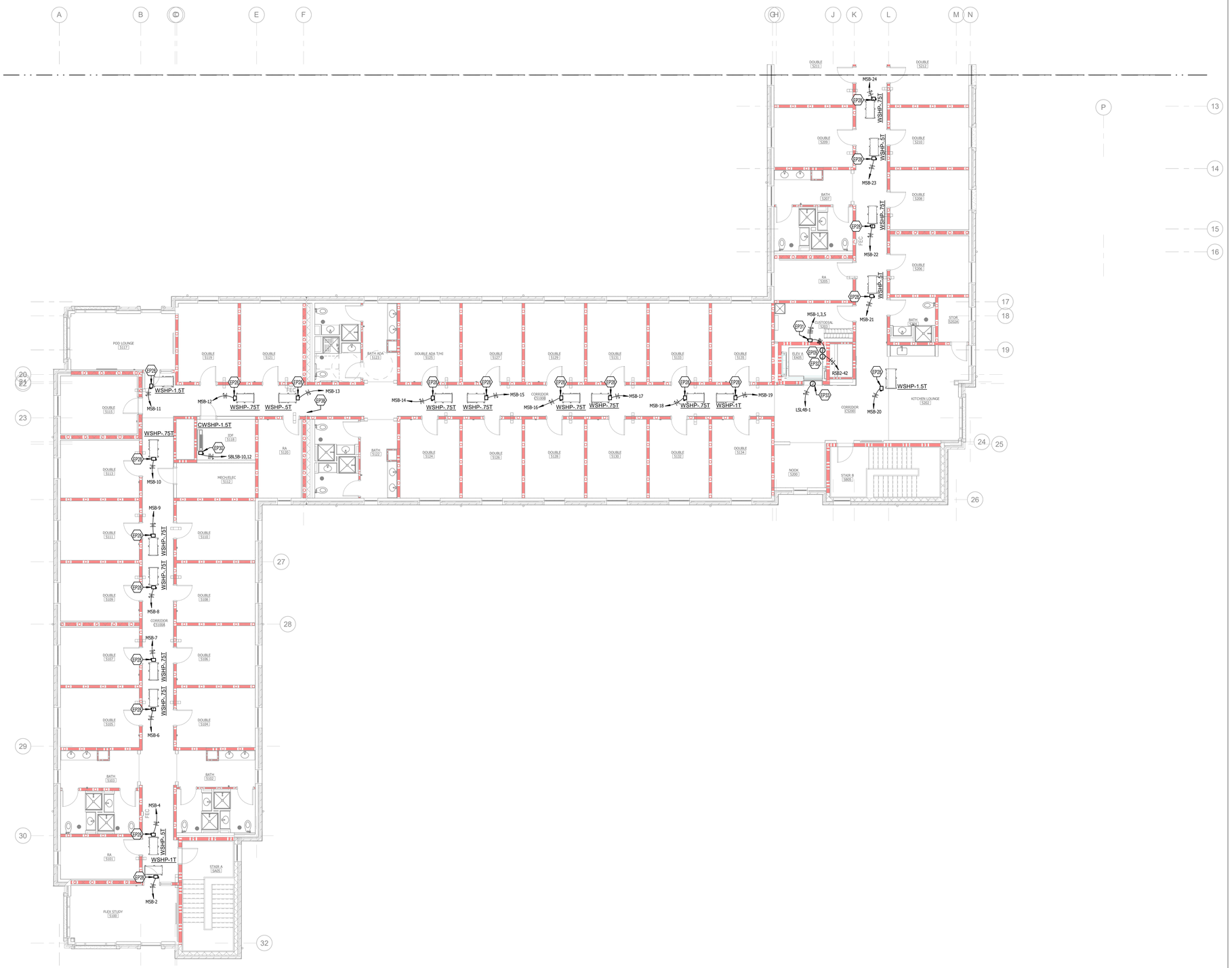
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 05 - AREA A

SHEET NUMBER
E305A

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1 ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 05 - AREA B

1/8" = 1'-0"

SHEET KEYED NOTES

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2-HR FIRE BARRIER

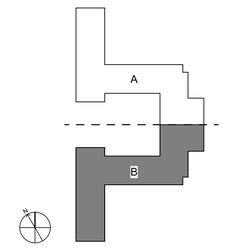
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

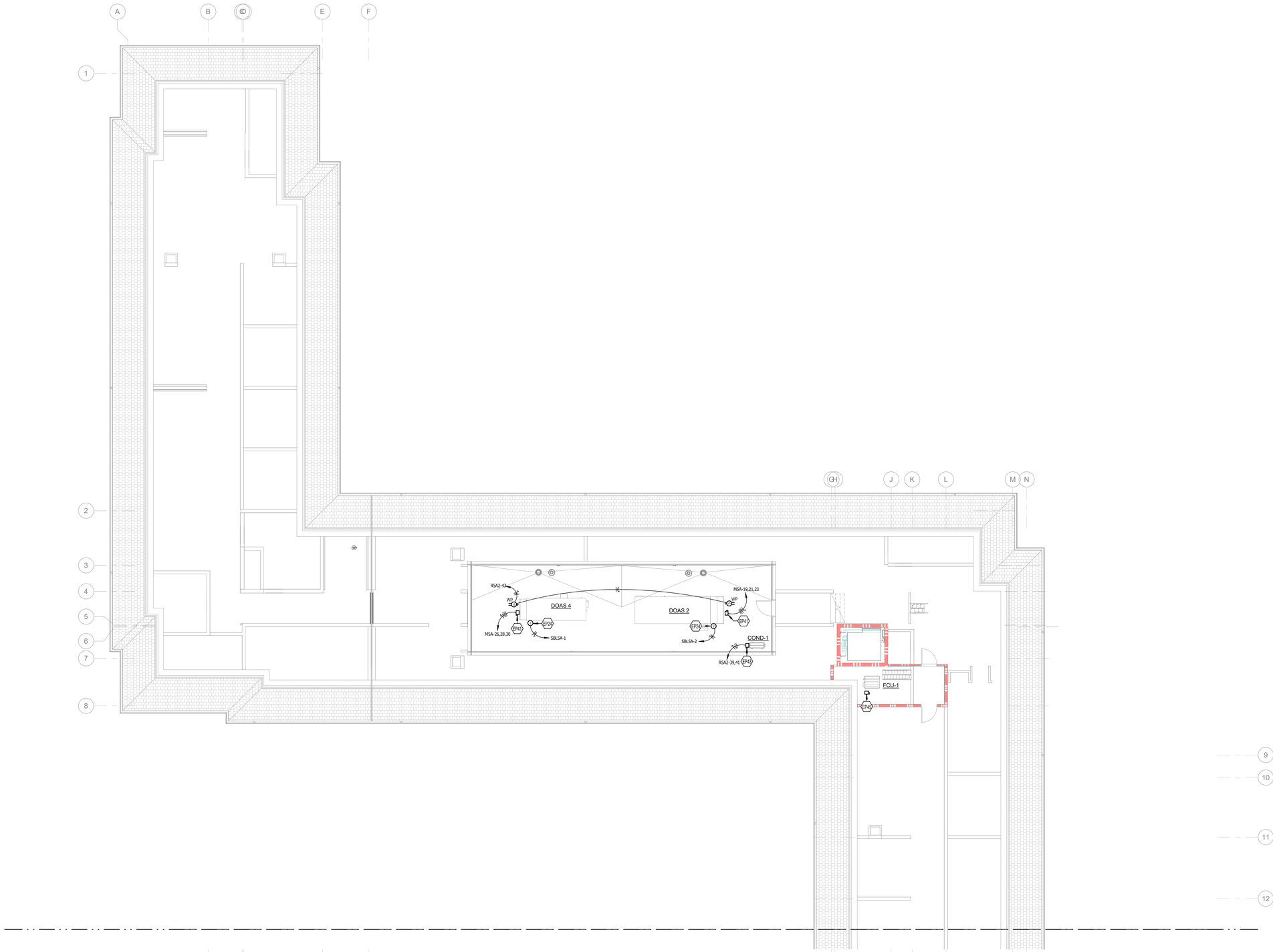
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - LEVEL 05 - AREA B

SHEET NUMBER
E305B

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1 ELECTRICAL EQUIPMENT POWER PLAN - ROOF - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

- EP24 PROVIDE 120V CONNECTION FOR DOAS UNIT HEAT TRACING.
- EP41 PROVIDE 600V, 60A/3P, NEMA 3R RATED FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL EQUIPMENT. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATION. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
- EP43 PROVIDE 240V, 30A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR INDOOR SPLIT SYSTEM UNIT. EXTEND SPLIT SYSTEM CIRCUIT FROM OUTDOOR UNIT THROUGH THIS SWITCH TO TERMINATION POINT AT INDOOR UNIT. COORDINATE FINAL LOCATION OF DISCONNECT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
- EP45 PROVIDE 120V CONNECTION FOR AUTOMATIC DOOR OPERATOR.

POWER - GENERAL NOTES

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

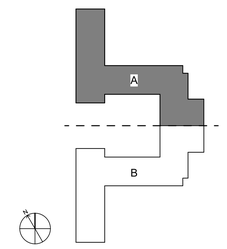
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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PROJECT NAME
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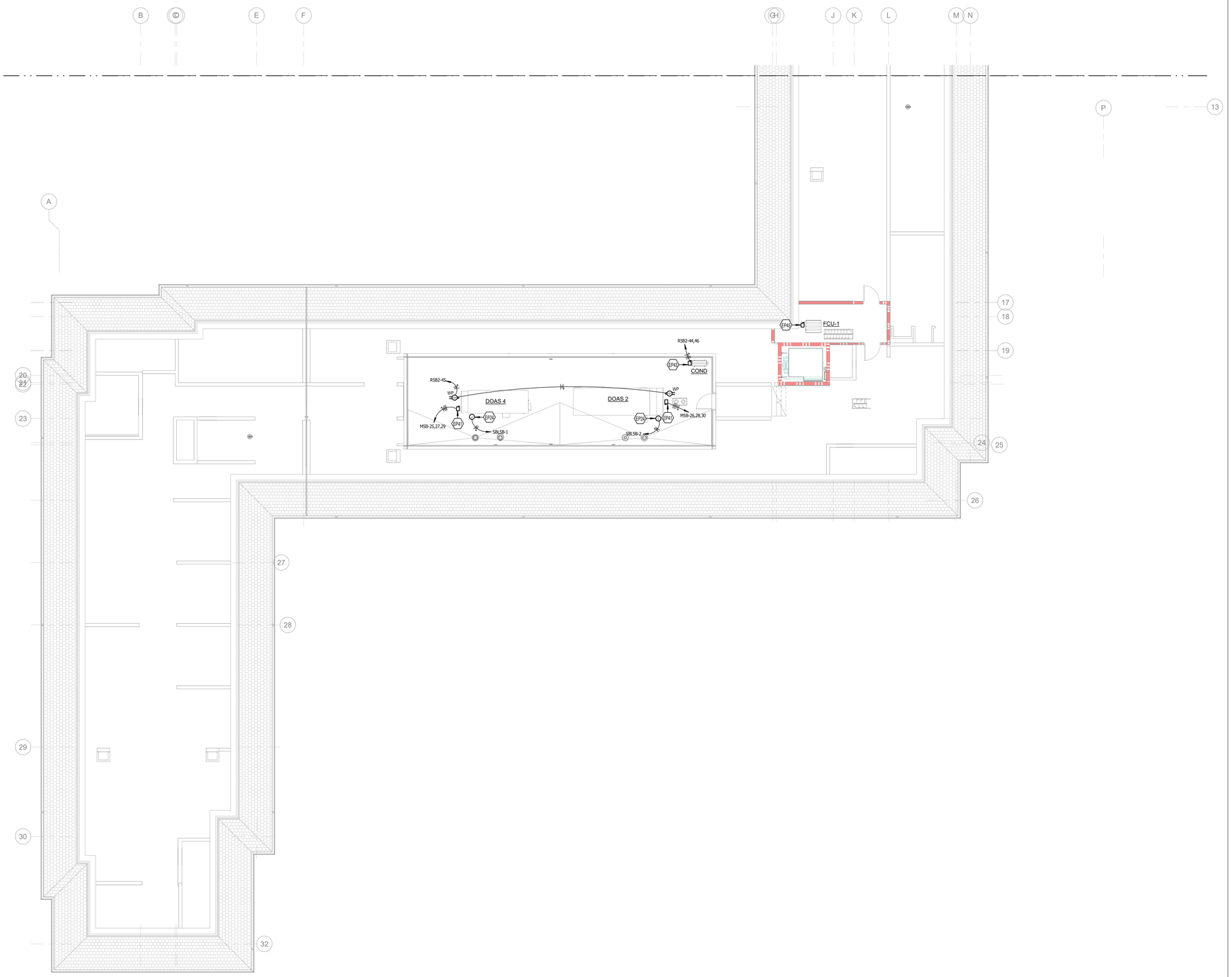
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - ROOF - AREA A

SHEET NUMBER
E306A

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1 ELECTRICAL EQUIPMENT POWER PLAN - ROOF - AREA B

0 1' 2' 4' 8' 16' 24' 32' 1/8" = 1'-0"

SHEET KEYED NOTES

EP24 PROVIDE 120V CONNECTION FOR DOAS UNIT HEAT TRACING.

EP41 PROVIDE 600V, 60A/3P, NEMA 3R RATED FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR MECHANICAL EQUIPMENT. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATION. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.

EP43 PROVIDE 240V, 30A/2P, NEMA 1 RATED NON-FUSED SAFETY SWITCH AS LOCAL DISCONNECTING MEANS FOR INDOOR SPLIT SYSTEM UNIT. EXTEND SPLIT SYSTEM CIRCUIT FROM OUTDOOR UNIT THROUGH THIS SWITCH TO TERMINATION POINT AT INDOOR UNIT. COORDINATE FINAL LOCATION OF DISCONNECT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.

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2-HR FIRE BARRIER

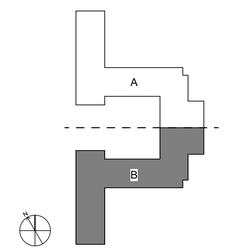
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FIRE PARTITIONS

1-HR FIRE PARTITION

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SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

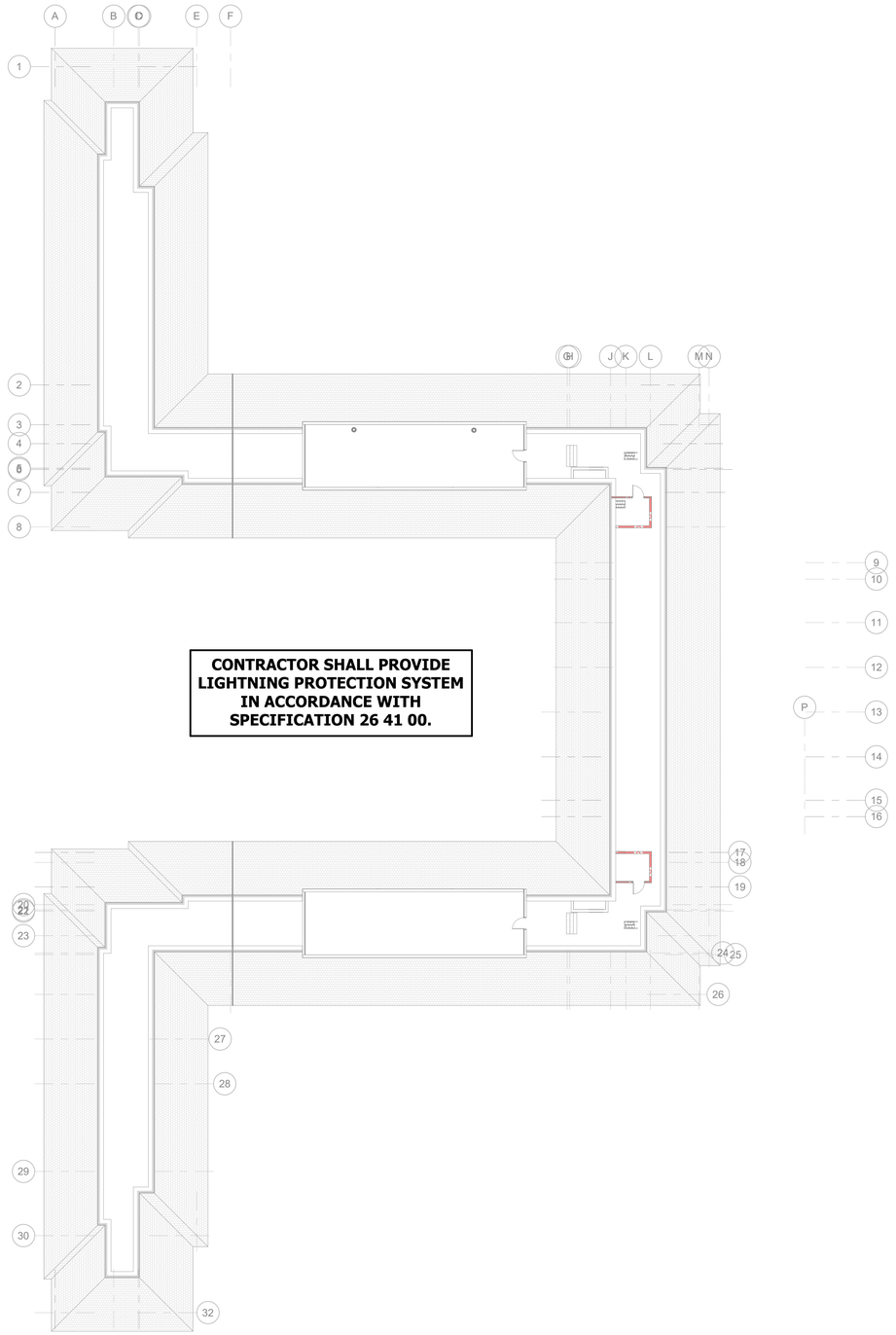
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL EQUIPMENT POWER PLAN - ROOF - AREA B

SHEET NUMBER
E306B

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CONTRACTOR SHALL PROVIDE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH SPECIFICATION 26 41 00.

1 ELECTRICAL LIGHTNING PROTECTION PLAN

1/16" = 1'-0"

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DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHTNING PROTECTION PLAN

SHEET NUMBER
E401

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ELECTRICAL - LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	PRE-APPROVED ALTERNATE MANUFACTURERS	LAMPS / CCT	DRIVER	MINIMUM LUMENS	MOUNTING	WATTAGE	VOLTAGE	REMARKS
RC1	COVE LINEAR - VARIABLE LENGTH	JUNO 'JFX' - 24V 300LM 100FT 30K 90CRI DL	DIODE LED, AMERICAN LIGHTING	INTEGRAL LEDS / 3500K	0-10V DIMMING	300/FT	RECESSED	10	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
RD1	6" ROUND DOWNLIGHT	GOTHAM 'IVO6' - IVO6 D 10LM 35K 80CRI MD MIN10 MVOLT ZT NCH P AR LSS F	LITHONIA, FOCAL POINT	INTEGRAL LEDS / 3500K	0-10V DIMMING	1000	RECESSED	15	UNIVERSAL	ARCHITECT TO CONFIRM TRIM STYLE, BAFFLE COLOR, TRIM LENS/COLOR/FINISH, AND FLANGE STYLE. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
RD2	6" ROUND DOWNLIGHT - WET RATED	GOTHAM 'IVO6' - IVO6 D 10LM 35K 80CRI MD MIN10 MVOLT ZT NCH WL P AR LSS F	LITHONIA, FOCAL POINT	INTEGRAL LEDS / 3500K	0-10V DIMMING	1000	RECESSED	15	UNIVERSAL	ARCHITECT TO CONFIRM TRIM STYLE, BAFFLE COLOR, TRIM LENS/COLOR/FINISH, AND FLANGE STYLE. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
RD3	6" ROUND DOWNLIGHT - HIGH OUTPUT	GOTHAM 'IVO6' - IVO6 D 40LM 35K 80CRI 10D MIN10 MVOLT ZT NCH P AR LSS F	LITHONIA, FOCAL POINT	INTEGRAL LEDS / 3500K	0-10V DIMMING	4000	RECESSED	50	UNIVERSAL	ARCHITECT TO CONFIRM TRIM STYLE, BAFFLE COLOR, TRIM LENS/COLOR/FINISH, AND FLANGE STYLE. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
RL1	2" LINEAR - VARIABLE LENGTH - ACT CEILING	FOCAL POINT 'SEEM 2' - FSM2L FL 500LF 35K 1C UNV LD1 G1 WH Xft Xin	PINNACLE, TECHOLED	INTEGRAL LEDS / 3500K	0-10V DIMMING	500/FT	RECESSED	<varies>	UNIVERSAL	PROVIDE FIXTURE LENGTHS AS SHOWN ON DRAWINGS. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
RT1	2'X2' TROFFER	LITHONIA 'STACK PRIME' - STAKP 2X2 3000LM 80CRI 35K COLT MIN10 ZT MVOLT	PINNACLE, ERALUX	INTEGRAL LEDS / 3500K	0-10V DIMMING	3000	RECESSED	23	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SD1	2' ROUND	TECHOLED 'MOON' - TECHOLED-MS-D-23-HI-35K-U-X-SM-DM-X-X	PINNACLE, FOCAL POINT	INTEGRAL LEDS / 3500K	0-10V DIMMING	5100	SURFACE	60	UNIVERSAL	ARCHITECT TO SELECT FINISH. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SL1	4' LINEAR - STAIRWELL	LITHONIA 'WL4' - WL4 40L GZ1 LP835 MSD7 DIM10	LITHONIA, UTOPIA	INTEGRAL LEDS / 3500K	0-10V DIMMING	4000	SURFACE	35	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SL2	4' LINEAR - ELEVATOR	LITHONIA 'CLX' - CLX L48 4000LM SEF FDL MVOLT GZ10 40K 80CRI WH	ERALUX, SIGNIFY	INTEGRAL LEDS / 3500K	0-10V DIMMING	4000	WALL	35	UNIVERSAL	PROVIDE WITH THCLX MOUNTING ACCESSORIES. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SL3	4' LINEAR - CLOSET	LITHONIA 'CLX' - CLX L48 2000LM SEF FDL MVOLT GZ10 40K 80CRI WH	ERALUX, SIGNIFY	INTEGRAL LEDS / 3500K	0-10V DIMMING	2000	WALL	20	UNIVERSAL	PROVIDE WITH THCLX MOUNTING ACCESSORIES. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SP1	20" ROUND RATTAN PENDANT	FARO BARCELONA 'HAKA RATTAN'	VISUAL COMFORT, CB2	INTEGRAL LEDS / 3500K	-	-	SUSPENDED	5	UNIVERSAL	PROVIDE WITH E27 LED BULB. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SS1	4' UTILITY STRIP	LITHONIA 'CLX' - CLX L48 4000LM SEF FDL MVOLT GZ10 40K 80CRI WH	ERALUX, SIGNIFY	INTEGRAL LEDS / 3500K	0-10V DIMMING	4000	SUSPENDED	35	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SW1	EXTERIOR MULLION LINEAR	LUMINAIRE LED 'BLD' - BLD 24IN 10W 35K MVOLT DP XXX PIR	EXITRONIX,. BARTCO	INTEGRAL LEDS / 3500K	0-10V DIMMING	1000	WALL	10	UNIVERSAL	ARCHITECT TO SELECT FINISH. PROVIDE WITH RCHRC ACCESSORY. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SW2	EXTERIOR WALL PACK	LITHONIA 'TWX1' - TWX1 LED P1 40K MVOLT PE XXXXX	UTOPIA, RAYON	INTEGRAL LEDS / 3500K	0-10V DIMMING	1600	WALL	11	UNIVERSAL	ARCHITECT TO SELECT FINISH. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SW3	EXTERIOR SCONCE	LUMIERE 'LANTERRA 9000' - 9004-W1-RW-LED3590-F-BZ-L2-UNV-RSM-SVP D2	BEGA, PRESCOLITE	INTEGRAL LEDS / 3500K	0-10V DIMMING	1550	WALL	20	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
SW4	EXTERIOR SCONCE - UPLIGHT & DOWNLIGHT	LUMIERE 'LANTERRA 9000' - 9004-W2-RW-LED3590-S-F-BZ-L2-UNV-RSM-SVPD2	BEGA, PRESCOLITE	INTEGRAL LEDS / 3500K	0-10V DIMMING	1550 UP, 1550 DOWN	WALL	40	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
UC1	UNDERCABINET STRIP - VARIABLE LENGTH	JUNO 'UCES LED' - UCES XXIN SWW5 90CRI WH M6	UTOPIA, SIGNIFY	INTEGRAL LEDS / SWITCHABLE CCT	NON-DIMMING	135/FT	SURFACE	<varies>	UNIVERSAL	PROVIDE FIXTURE LENGTHS AS SHOWN ON DRAWINGS. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
WS1	LINEAR VANITY	PINNACLE 'VERBENA 3' - V3D-A-835MO-2'-WA-LFSD-1-0-XX	LITHONIA, FOCAL POINT	INTEGRAL LEDS / 3500K	0-10V DIMMING	1500	WALL	11	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
WS2	DECORATIVE WALL SCONCE	CAPITAL LIGHTING 'MAYA 2 LIGHT SCONCE'	VISUAL COMFORT, CB2	-	-	-	WALL	10	UNIVERSAL	PROVIDE WITH (2) E12 CANDELABRA LED BULBS. PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.
X1	EXIT SIGN	LITHONIA 'EXRG' - EXRG M6	CARPENTER, SIGNIFY	INTEGRAL LEDS	N/A	N/A	UNIVERSAL	2	UNIVERSAL	PROVIDE UL 924 LISTED EMERGENCY RELAYS AS REQUIRED SO THAT WHEN NORMAL POWER IS LOST, FIXTURES AUTOMATICALLY TURN ON TO 100% LUMEN OUTPUT, BYPASSING ANY OTHER LIGHTING CONTROLS.

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: UNCW Residence Hall
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Dormitory	120400	0.55	66100
		Total Allowed Watts =	66100

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Dormitory				
LED: RC1: Other:	1	110	3	330
LED: RD1: Other:	1	185	15	2775
LED: RD2: Other:	1	14	15	210
LED: RD3: Other:	1	20	50	1000
LED: RL1: Other:	1	428	4	1712
LED: RT1: Other:	1	203	23	4669
LED: SD1: Other:	1	290	60	17400
LED: SL1: Other:	1	36	35	1260
LED: SL2: Other:	1	10	35	350
LED: SL3: Other:	1	4	20	80
LED: SP1: Other:	1	2	5	10
LED: SS1: Other:	1	87	35	3045
LED: SW1: Other:	1	8	10	80
LED: SW2: Other:	1	14	11	154
LED: SW3: Other:	1	11	20	220
LED: SW4: Other:	1	8	40	320
LED: WS1: Other:	1	21	11	231
LED: WS2: Other:	1	3	10	30
		Total Proposed Watts =		33876

Interior Lighting PASSES: Design 49% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Maxwell Shuell - Electrical Engineer, CMTA — Maxwell Shuell — 01/14/2026
Name - Title — Signature — Date

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL LIGHT FIXTURE SCHEDULE & LIGHTING CALCS

SHEET NUMBER
E501

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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PANELBOARD AND WIRING SCHEDULE

PANEL: LSDH — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 35 KAIC
VOLTAGE: 480Y/277V,3P,4W — **SPD:** Yes — **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 400 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** ATS-LS

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	1.7	3.8		2					
	LSH1A	3-#6, 1-#6, 1-#10	50	3	3		0.4	4.0	4	3	100	3-#1, 1-#1, 1-#8	LSH2A & LSH4A	
					5			0.0	1.7	6					
					7	3.7	6.6		8					
	LSH2B & LSH4B	3-#1, 1-#1, 1-#8	100	3	9		4.0	4.9	10	3	150	3-#3/0, 1-#3/0, 1-#6	T3	
					11			0.1	6.5	12					
	GEN/CT ENCLOSURE LIGHTS	1-#12, 1-#12, 1-#12	20	1	13	0.1	1.1		14	1	20	1-#12, 1-#12, 1-#12	1ST FLOOR COMMON AREA LTNG	
	1ST FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	15		1.2	0.3	16	1	20	1-#12, 1-#12, 1-#12	WALL-MOUNTED EXTERIOR LTNG	
	LTNG ELEV A	1-#12, 1-#12, 1-#12	20	1	17			0.2	18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
						17.0 kVA	14.7 kVA	8.5 kVA						
						65 A	57 A	31 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6600 VA	100.00%	6600 VA	TOTAL CONNECTED LOAD:	40 kVA
LTNG	33640 VA	125.00%	42050 VA	TOTAL ESTIMATED DEMAND:	49 kVA
				TOTAL CONNECTED CURRENT:	48 A
				TOTAL ESTIMATED DEMAND CURRENT:	59 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
MAIN CIRCUIT BREAKER SHALL BE LSI TYPE.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSDL — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 250 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** T3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.5	2.4		2					
	LSL1A	3-#6, 1-#6, 1-#10	50	3	3			1.0	1.4	4	3	100	3-#1, 1-#1, 1-#8	LSL2A & LSL4A
					5					6				
	FACP 1100	1-#12, 1-#12, 1-#12	20	1	7	0.5	1.6		8					
	DOOR HARDWARE 1202,SB01	1-#12, 1-#12, 1-#12	20	1	9			0.2	2.3	10	3	100	3-#1, 1-#1, 1-#8	LSL2B & LSL4B
	1ST FLOOR DOUBLE/RA ROOM...	1-#10, 1-#10, 1-#10	20	1	11				0.6	2.1	12			
	DOOR OPERATORS 1202	1-#12, 1-#12, 1-#12	20	1	13	0.2	1.5				14	1	20	1-#12, 1-#12, 1-#12	DOOR HARDWARE 1100,1100B	
					15						16					
					17						18					
					19						20					
					21						22					
					23						24					
					25						26					
					27						28					
					29						30					
						6.6 kVA	4.9 kVA	6.5 kVA							
						57 A	41 A	56 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6600 VA	100.00%	6600 VA	TOTAL CONNECTED LOAD:	18 kVA
LTNG	11400 VA	125.00%	14250 VA	TOTAL ESTIMATED DEMAND:	21 kVA
				TOTAL CONNECTED CURRENT:	50 A
				TOTAL ESTIMATED DEMAND CURRENT:	58 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALL SINGLE-POLE CIRCUITS WITH COMBINATION-TYPE AFCI BREAKERS.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSH1A — **MAINS TYPE:** MLO — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 480Y/277V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 1322
AMPERES: 50 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** LSDH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	1ST FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	1	0.8	1.0		2	1	20	1-#12, 1-#12, 1-#12	1ST FLOOR COMMON AREA LTNG	
	WALL-MOUNTED EXTERIOR LTNG	1-#12, 1-#12, 1-#12	20	1	3		0.2	0.2	4	1	20	1-#12, 1-#12, 1-#12	LTNG ELEV B	
					5				6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						1.7 kVA	0.4 kVA	0.0 kVA						
						6 A	2 A	0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	2121 VA	125.00%	2651 VA	TOTAL CONNECTED LOAD:	2 kVA
				TOTAL ESTIMATED DEMAND:	3 kVA
				TOTAL CONNECTED CURRENT:	3 A
				TOTAL ESTIMATED DEMAND CURRENT:	3 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSH2A — **MAINS TYPE:** MLO — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 480Y/277V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 2322
AMPERES: 100 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** LSDH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	3RD FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	1	1.0	1.0		2	1	20	1-#12, 1-#12, 1-#12	2ND FLOOR COMMON AREA LTNG	
	3RD FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	3			1.0	1.0	4	1	20	1-#12, 1-#12, 1-#12	2ND FLOOR COMMON AREA LTNG	
	2ND FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	5				1.5	6					
					7					8					
					9					10					
					11					12					
					13					14					
					15					16					
					17					18					
					19					20					
					21					22					
					23					24					
						3.8 kVA	4.0 kVA	1.7 kVA							
						15 A	15 A	6 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	9428 VA	125.00%	11785 VA	TOTAL CONNECTED LOAD:	9 kVA
				TOTAL ESTIMATED DEMAND:	12 kVA
				TOTAL CONNECTED CURRENT:	11 A
				TOTAL ESTIMATED DEMAND CURRENT:	14 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSH2B — **MAINS TYPE:** MLO — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 480Y/277V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 2112
AMPERES: 100 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** LSDH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	3RD FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	1	0.9	1.0		2	1	20	1-#12, 1-#12, 1-#12	2ND FLOOR COMMON AREA LTNG	
	3RD FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	3		1.1	0.9	4	1	20	1-#12, 1-#12, 1-#12	2ND FLOOR COMMON AREA LTNG	
					5				6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						3.7 kVA	4.0 kVA	0.1 kVA						
						15 A	16 A	1 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	7856 VA	125.00%	9820 VA	TOTAL CONNECTED LOAD:	8 kVA
				TOTAL ESTIMATED DEMAND:	10 kVA
				TOTAL CONNECTED CURRENT:	9 A
				TOTAL ESTIMATED DEMAND CURRENT:	12 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSH4A — **MAINS TYPE:** MLO — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 480Y/277V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 4322
AMPERES: 100 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** LSH2A

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	5TH FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	1	0.9	0.9		2	1	20	1-#12, 1-#12, 1-#12	4TH FLOOR COMMON AREA LTNG	
	5TH FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	3		1.0	1.0	4	1	20	1-#12, 1-#12, 1-#12	4TH FLOOR COMMON AREA LTNG	
	ATTIC LIGHTING	1-#12, 1-#12, 1-#12	20	1	5			0.1	0.0	6	1	20	1-#12, 1-#12, 1-#12	ROOFTOP MECH WELL LTNG	
					7					8					
					9					10					
					11					12					
					13					14					
					15					16					
					17					18					
					19					20					
					21					22					
					23					24					
						1.8 kVA	1.9 kVA	0.1 kVA							
						7 A	8 A	1 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	3852 VA	125.00%	4815 VA	TOTAL CONNECTED LOAD:	4 kVA
				TOTAL ESTIMATED DEMAND:	5 kVA
				TOTAL CONNECTED CURRENT:	5 A
				TOTAL ESTIMATED DEMAND CURRENT:	6 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE: JAMES CURRIE, PE
PROJECT MANAGER: DAN KNOX, PE
DESIGN TEAM: MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E601

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PANELBOARD AND WIRING SCHEDULE

PANEL: LSH4B
VOLTAGE: 480Y/277V,3P,4W
AMPERES: 100 A
MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE
MIN. PANEL KAIC RATING: 14 KAIC
LOCATION: MECH/ELEC 4112
SUPPLY FROM: LSH2B

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	5TH FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	1	0.9 0.9			2	1	20	1-#12, 1-#12, 1-#12	4TH FLOOR COMMON AREA LTNG	
	5TH FLOOR COMMON AREA LTNG	1-#12, 1-#12, 1-#12	20	1	3		1.0 1.0		4	1	20	1-#12, 1-#12, 1-#12	4TH FLOOR COMMON AREA LTNG	
	ATTIC LIGHTING	1-#12, 1-#12, 1-#12	20	1	5			0.1 0.0	6	1	20	1-#12, 1-#12, 1-#12	ROOFTOP MECH WELL LTNG	
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						1.8 kVA	2.0 kVA	0.1 kVA						
						8 A	8 A	1 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	4002 VA	125.00%	5003 VA	TOTAL CONNECTED LOAD:	4 kVA
				TOTAL ESTIMATED DEMAND:	5 kVA
				TOTAL CONNECTED CURRENT:	5 A
				TOTAL ESTIMATED DEMAND CURRENT:	6 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSL1A
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 50 A
MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE
MIN. PANEL KAIC RATING: 10 KAIC
LOCATION: MECH/ELEC 1322
SUPPLY FROM: LSDL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	DOOR HARDWARE 1222	1-#12, 1-#12, 1-#12	20	1	1	0.3 0.2			2	1	20	1-#12, 1-#12, 1-#12	SMOKE CURTAIN EB01	
	DOUBLE/RA ROOM LIGHTS	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.5		4	1	20	1-#12, 1-#12, 1-#12	DOUBLE/RA ROOM LIGHTS	
	PUSH PLATES 1222	1-#8, 1-#8, 1-#8	20	1	5			1.5	6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						0.5 kVA	1.0 kVA	1.5 kVA						
						4 A	9 A	13 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1950 VA	100.00%	1950 VA	TOTAL CONNECTED LOAD:	3 kVA
LTNG	1000 VA	125.00%	1250 VA	TOTAL ESTIMATED DEMAND:	3 kVA
				TOTAL CONNECTED CURRENT:	8 A
				TOTAL ESTIMATED DEMAND CURRENT:	9 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALL SINGLE-POLE CIRCUITS WITH COMBINATION-TYPE AFCI BREAKERS.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSL2A
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 100 A
MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE
MIN. PANEL KAIC RATING: 10 KAIC
LOCATION: MECH/ELEC 2322
SUPPLY FROM: LSDL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	SMOKE CURTAIN EB02	1-#12, 1-#12, 1-#12	20	1	1	0.2 0.6			2	1	20	1-#12, 1-#12, 1-#12	3RD FLOOR DOUBLE/RA ROOM...	
	SMOKE CURTAIN EB03	1-#12, 1-#12, 1-#12	20	1	3		0.2 0.7		4	1	20	1-#10, 1-#10, 1-#10	3RD FLOOR DOUBLE/RA ROOM...	
	2ND FLOOR DOUBLE/RA ROOM...	1-#12, 1-#12, 1-#12	20	1	5			0.6 0.5	6	1	20	1-#12, 1-#12, 1-#12	2ND FLOOR DOUBLE/RA ROOM...	
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						2.4 kVA	1.4 kVA	2.3 kVA						
						21 A	12 A	20 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1300 VA	100.00%	1300 VA	TOTAL CONNECTED LOAD:	6 kVA
LTNG	4760 VA	125.00%	5950 VA	TOTAL ESTIMATED DEMAND:	7 kVA
				TOTAL CONNECTED CURRENT:	17 A
				TOTAL ESTIMATED DEMAND CURRENT:	20 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALL SINGLE-POLE CIRCUITS WITH COMBINATION-TYPE AFCI BREAKERS.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSL2B
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 100 A
MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE
MIN. PANEL KAIC RATING: 10 KAIC
LOCATION: MECH/ELEC 2112
SUPPLY FROM: LSDL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	SMOKE CURTAIN EA02	1-#12, 1-#12, 1-#12	20	1	1	0.2 0.6			2	1	20	1-#12, 1-#12, 1-#12	3RD FLOOR DOUBLE/RA ROOM...	
	SMOKE CURTAIN EA01	1-#12, 1-#12, 1-#12	20	1	3		0.2 0.8		4	1	20	1-#10, 1-#10, 1-#10	3RD FLOOR DOUBLE/RA ROOM...	
	SMOKE CURTAIN EA03	1-#12, 1-#12, 1-#12	20	1	5			0.2 0.6	6	1	20	1-#12, 1-#12, 1-#12	2ND FLOOR DOUBLE/RA ROOM...	
	2ND FLOOR DOUBLE/RA ROOM...	1-#12, 1-#12, 1-#12	20	1	7	0.5			8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						1.6 kVA	2.3 kVA	2.1 kVA						
						14 A	20 A	18 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1000 VA	100.00%	1000 VA	TOTAL CONNECTED LOAD:	6 kVA
LTNG	5000 VA	125.00%	6250 VA	TOTAL ESTIMATED DEMAND:	7 kVA
				TOTAL CONNECTED CURRENT:	17 A
				TOTAL ESTIMATED DEMAND CURRENT:	20 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALL SINGLE-POLE CIRCUITS WITH COMBINATION-TYPE AFCI BREAKERS.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSL4A
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 100 A
MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE
MIN. PANEL KAIC RATING: 10 KAIC
LOCATION: MECH/ELEC 4322
SUPPLY FROM: LSL2A

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	ERRAS CABINET 5316	1-#12, 1-#12, 1-#12	20	1	1	0.2 0.2			2	1	20	1-#12, 1-#12, 1-#12	ERRAS CABINET 5316	
	SMOKE CURTAIN EB05	1-#12, 1-#12, 1-#12	20	1	3		0.2 0.2		4	1	20	1-#12, 1-#12, 1-#12	SMOKE CURTAIN EA04	
	4TH FLOOR DOUBLE/RA ROOM...	1-#12, 1-#12, 1-#12	20	1	5			0.6 0.7	6	1	20	1-#10, 1-#10, 1-#10	4TH FLOOR DOUBLE/RA ROOM...	
	5TH FLOOR DOUBLE/RA ROOM...	1-#10, 1-#10, 1-#10	20	1	7	0.7 0.6			8	1	20	1-#12, 1-#12, 1-#12	5TH FLOOR DOUBLE/RA ROOM...	
	ERRAS CABINET 5316	1-#12, 1-#12, 1-#12	20	1	9		0.1 0.1		10	1	20	1-#12, 1-#12, 1-#12	EQUIP	
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						1.6 kVA	0.5 kVA	1.2 kVA						
						15 A	4 A	11 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	900 VA	100.00%	900 VA	TOTAL CONNECTED LOAD:	3 kVA
LTNG	2480 VA	125.00%	3100 VA	TOTAL ESTIMATED DEMAND:	4 kVA
				TOTAL CONNECTED CURRENT:	9 A
				TOTAL ESTIMATED DEMAND CURRENT:	11 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALL SINGLE-POLE CIRCUITS WITH COMBINATION-TYPE AFCI BREAKERS.

PANELBOARD AND WIRING SCHEDULE

PANEL: LSL4B
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 100 A
MAINS TYPE: MLO
SPD: Yes
MOUNTING: SURFACE
MIN. PANEL KAIC RATING: 10 KAIC
LOCATION: MECH/ELEC 4112
SUPPLY FROM: LSL2B

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	SMOKE CURTAIN EA05	1-#12, 1-#12, 1-#12	20	1	1	0.2 0.2			2	1	20	1-#12, 1-#12, 1-#12	SMOKE CURTAIN EB04	
	4TH FLOOR DOUBLE/RA ROOM...	1-#12, 1-#12, 1-#12	20	1	3		0.6 0.8		4	1	20	1-#10, 1-#10, 1-#10	4TH FLOOR DOUBLE/RA ROOM...	
	5TH FLOOR DOUBLE/RA ROOM...	1-#12, 1-#12, 1-#12	20	1	5			0.6 0.8	6	1	20	1-#10, 1-#10, 1-#10	5TH FLOOR DOUBLE/RA ROOM...	
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
						0.4 kVA	1.3 kVA	1.3 kVA						
						3 A	12 A	12 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	400 VA	100.00%	400 VA	TOTAL CONNECTED LOAD:	3 kVA
LTNG	2640 VA	125.00%	3300 VA	TOTAL ESTIMATED DEMAND:	4 kVA
				TOTAL CONNECTED CURRENT:	8 A
				TOTAL ESTIMATED DEMAND CURRENT:	10 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE ALL SINGLE-POLE CIRCUITS WITH COMBINATION-TYPE AFCI BREAKERS.

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E602

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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PANELBOARD AND WIRING SCHEDULE

PANEL: M1A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 14 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 1322
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SSH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-1T C1300B	1-#12, 1-#12, 1-#12	15	1	1	2.5 1.6			2	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300B	
	WSHP-.75T C1300B	1-#12, 1-#12, 1-#12	15	1	3		1.6 1.6		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300B	
	WSHP-.75T C1300B	1-#12, 1-#12, 1-#12	15	1	5			1.6 1.6	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300B	
	WSHP-.75T C1300B	1-#12, 1-#12, 1-#12	15	1	7	1.6 2.7			8	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C1300A	
	WSHP-.5T C1300A	1-#12, 1-#12, 1-#12	15	1	9		1.1 1.6		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300A	
	WSHP-.75T C1300A	1-#12, 1-#12, 1-#12	15	1	11			1.6 1.6	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300A	
	WSHP-.75T C1300A	1-#12, 1-#12, 1-#12	15	1	13	1.6 1.6			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300A	
	WSHP-.75T C1300A	1-#12, 1-#12, 1-#12	15	1	15		1.6 1.6		16	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1300A	
	WSHP-1.5T 1220	1-#12, 1-#12, 1-#12	20	1	17			1.7 3.3	18	1	25	1-#10, 1-#10, 1-#10	WSHP-2T C1200	
					19	4.3 4.3			20					
	CUH-1 SD01	3-#12, 1-#12, 1-#12	20	3	21		4.3 4.3		22	3	20	3-#12, 1-#12, 1-#12	CUH-1 SC01	
					23			4.3 4.3	24					
					25				26					
					27				28					
					29				30					
						20.1 kVA	17.6 kVA	19.9 kVA						
						74 A	64 A	73 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	57700 VA	100.00%	57700 VA	TOTAL CONNECTED LOAD:	58 kVA
				TOTAL ESTIMATED DEMAND:	58 kVA
				TOTAL CONNECTED CURRENT:	69 A
				TOTAL ESTIMATED DEMAND CURRENT:	69 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M1B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 50 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SSH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-.75T C1100A	1-#12, 1-#12, 1-#12	15	1	1	1.6 2.7			2	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C1100A	
	WSHP-1.5T C1100B	1-#12, 1-#12, 1-#12	20	1	3		2.7 1.1		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C1100B	
	WSHP-.75T C1100B	1-#12, 1-#12, 1-#12	15	1	5			1.6 1.1	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C1100B	
	WSHP-.75T C1100B	1-#12, 1-#12, 1-#12	20	1	7	1.6 1.6			8	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1100B	
	WSHP-.75T C1100B	1-#12, 1-#12, 1-#12	15	1	9		1.6 1.6		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1100B	
	WSHP-.75T C1100B	1-#12, 1-#12, 1-#12	15	1	11			1.6 1.6	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C1100B	
	WSHP-1T 1201	1-#12, 1-#12, 1-#12	15	1	13	2.0 2.0			14	1	15	1-#12, 1-#12, 1-#12	WSHP-1T 1201	
	UH-1 1100B	1-#10, 1-#10, 1-#10	25	1	15		5.0 5.0		16	1	25	1-#10, 1-#10, 1-#10	UH-1 1100B	
	WSHP-2T 1100	1-#12, 1-#12, 1-#12	20	1	17			3.3 5.8	18					
					19	5.8 5.8			20	3	30	3-#10, 1-#10, 1-#10	HPWP-1 1100	
	HPWP-1 1100	3-#10, 1-#10, 1-#10	30	3	21		5.8 5.8		22					
					23			5.8 5.8	24					
					25	0.0 5.8			26	3	30	3-#10, 1-#10, 1-#10	HPWP-1 1100	
	FUTURE PUMP 1100	3-#10, 1-#10, 1-#10	30	3	27		0.0 5.8		28					
					29			0.0 0.0	30					
					31	4.3 0.0			32	3	30	3-#10, 1-#10, 1-#10	FUTURE PUMP 1100	
	CUH-1 SB01	3-#12, 1-#12, 1-#12	20	3	33		4.3 0.0		34					
					35			4.3 4.3	36					
					37	0.6 4.3			38	3	20	3-#12, 1-#12, 1-#12	CUH-1 SA01	
	JP-1 1100B	3-#12, 1-#12, 1-#12	20	3	39		0.6 4.3		40					
					41			0.6	42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						38.1 kVA	43.6 kVA	35.8 kVA						
						139 A	159 A	129 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1750 VA	100.00%	1750 VA	TOTAL CONNECTED LOAD:	117 kVA
HVAC	115650 VA	100.00%	115650 VA	TOTAL ESTIMATED DEMAND:	117 kVA
				TOTAL CONNECTED CURRENT:	141 A
				TOTAL ESTIMATED DEMAND CURRENT:	141 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M2A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2322
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-1T 2300B	1-#12, 1-#12, 1-#12	15	1	1	2.0 1.1			2	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C2300B	
	WSHP-.75T C2300B	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.3		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2300B	
	WSHP-.75T C2300B	1-#12, 1-#12, 1-#12	15	1	5			1.3 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2300B	
	WSHP-.75T C2300B	1-#12, 1-#12, 1-#12	15	1	7	1.3 1.3			8	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2300A	
	WSHP-1.5T C2300A	1-#12, 1-#12, 1-#12	20	1	9		2.7 1.1		10	1	20	1-#12, 1-#12, 1-#12	WSHP-.5T C2300A	
	WSHP-.75T C2300A	1-#12, 1-#12, 1-#12	15	1	11			1.3 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2300A	
	WSHP-.75T C2300A	1-#12, 1-#12, 1-#12	15	1	13	1.3 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2300A	
	WSHP-.75T C2300A	1-#12, 1-#12, 1-#12	15	1	15		1.3 2.0		16	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2300A	
	WSHP-2T C2200	1-#12, 1-#12, 1-#12	20	1	17			3.3 3.3	18	1	20	1-#10, 1-#10, 1-#10	WSHP-2T C2200	
	WSHP-.5T C2200	1-#12, 1-#12, 1-#12	15	1	19	1.1 3.3			20					
					21		3.3 3.3		22	3	15	3-#12, 1-#12, 1-#12	WSHP-6T 1210	
	WSHP-5T 1210	3-#12, 1-#12, 1-#12	15	3	23			3.3 3.3	24					
					25	3.3 2.0			26	1	15	1-#12, 1-#12, 1-#12	WSHP-1T C3100A	
					27				28					
					29				30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
						18.2 kVA	16.5 kVA	18.6 kVA						
						67 A	59 A	68 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	53270 VA	100.00%	53270 VA	TOTAL CONNECTED LOAD:	53 kVA
				TOTAL ESTIMATED DEMAND:	53 kVA
				TOTAL CONNECTED CURRENT:	64 A
				TOTAL ESTIMATED DEMAND CURRENT:	64 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M2B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2112
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-1T C2100A	1-#12, 1-#12, 1-#12	15	1	1	2.0 1.0			2	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C2100A	
	WSHP-.75T C2100A	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.3		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2100A	
	WSHP-.75T C2100A	1-#12, 1-#12, 1-#12	15	1	5			1.3 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2100A	
	WSHP-2T C2200	1-#12, 1-#12, 1-#12	20	1	7	3.3 1.3			8	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2100A	
	WSHP-1.5T C2100B	1-#12, 1-#12, 1-#12	20	1	9		2.7 1.3		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2100B	
	WSHP-.5T C2100B	1-#12, 1-#12, 1-#12	15	1	11			1.1 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2100B	
	WSHP-.75T C2100B	1-#12, 1-#12, 1-#12	15	1	13	1.3 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C2100B	
	WSHP-.75T C2100B	1-#12, 1-#12, 1-#12	15	1	15		1.3 2.0		16	1	15	1-#12, 1-#12, 1-#12	WSHP-1T C2100B	
	WSHP-.5T C2200	1-#12, 1-#12, 1-#12	15	1	17			1.1 3.3	18					
	WSHP-.75T C2100B	1-#12, 1-#12, 1-#12	15	1	19	1.3 3.3			20	3	15	3-#12, 1-#12, 1-#12	WSHP-6T 1210	
					21		3.3		22					
					23				24					
					25				26					
					27				28					
					29				30					
						15.0 kVA	13.4 kVA	9.5 kVA						
						66 A	60 A	34 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1000 VA	100.00%	1000 VA	TOTAL CONNECTED LOAD:	38 kVA
HVAC	36850 VA	100.00%	36850 VA	TOTAL ESTIMATED DEMAND:	38 kVA
				TOTAL CONNECTED CURRENT:	46 A
				TOTAL ESTIMATED DEMAND CURRENT:	46 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M3A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 3322
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-1T C3300B	1-#12, 1-#12, 1-#12	15	1	1	2.0 1.1			2	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C3300B	
	WSHP-.75T C3300B	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.3		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3300B	
	WSHP-.75T C3300B	1-#12, 1-#12, 1-#12	15	1	5			1.3 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3300B	
	WSHP-.75T C3300B	1-#12, 1-#12, 1-#12	15	1	7	1.3 2.7			8	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C3300A	
	WSHP-.75T C3300A	1-#12, 1-#12, 1-#12	15	1	9		1.3 1.1		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C3300A	
	WSHP-.75T C3300A	1-#12, 1-#12, 1-#12	15	1	11			1.3 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3300A	
	WSHP-.75T C3300A	1-#12, 1-#12, 1-#12	15	1	13	1.3 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3300A	
	WSHP-.75T C3300A	1-#12, 1-#12, 1-#12	15	1	15		1.3 1.0		16	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3300A	
	WSHP-1.5T C3200	1-#12, 1-#12, 1-#12	20	1	17			2.7 1.1	18	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C3200	
	WSHP-.5T C3200	1-#12, 1-#12, 1-#12	15	1	19	1.1 1.3			20	1	15	1-#12, 1-#12, 1-#12	WSHP-.75 T C3200	
	WSHP-.5T C3200	1-#12, 1-#12, 1-#12	15	1	21		1.1		22					
					23				24					
					25				26					
					27				28					
					29				30					
						12.2 kVA	8.5 kVA	9.1 kVA						
						44 A	31 A	33 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1000 VA	100.00%	1000 VA	TOTAL CONNECTED LOAD:	30 kVA
HVAC	28860 VA	100.00%	28860 VA	TOTAL ESTIMATED DEMAND:	30 kVA
				TOTAL CONNECTED CURRENT:	36 A
				TOTAL ESTIMATED DEMAND CURRENT:	36 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M3B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 3112
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-.75T C3100A	1-#12, 1-#12, 1-#12	15	1	1	1.3 1.3			2	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100A	
	WSHP-.75T C3100A	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.3		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100A	
	WSHP-.75T C3100A	1-#12, 1-#12, 1-#12	15	1	5			1.3 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100A	
	WSHP-1.5T C3100B	1-#12, 1-#12, 1-#12	20	1	7	2.7 1.3			8	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100B	
	WSHP-.75T C3100B	1-#12, 1-#12, 1-#12	15	1	9		1.1 1.3		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100B	
	WSHP-.75T C3100B	1-#12, 1-#12, 1-#12	15	1	11			1.3 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100B	
	WSHP-.75T C3100B	1-#12, 1-#12, 1-#12	15	1	13	1.3 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3100B	
	WSHP-1T C3100B	1-#12, 1-#12, 1-#12	15	1	15		2.0 2.7		16	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T 3202	
	WSHP-.75T C3200	1-#12, 1-#12, 1-#12	15	1	17			1.3 1.3	18	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3200	
	WSHP-.75T C2200B	1-#12, 1-#12, 1-#12	15	1	19	1.3 1.1			20	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C3200	
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						11.8 kVA	9.8 kVA	8.0 kVA						
						44 A	36 A	29 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	29550 VA	100.00%	29550 VA	TOTAL CONNECTED LOAD:	30 kVA
				TOTAL ESTIMATED DEMAND:	30 kVA
				TOTAL CONNECTED CURRENT:	36 A
				TOTAL ESTIMATED DEMAND CURRENT:	36 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E603

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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PANELBOARD AND WIRING SCHEDULE

PANEL: M4A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 4322
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-1T C4300B	1-#12, 1-#12, 1-#12	15	1	1	2.0 1.1			2	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C4300B	
	WSHP-.75T C4300B	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.3		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4300B	
	WSHP-.75T C4300B	1-#12, 1-#12, 1-#12	15	1	5			1.3 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4300B	
	WSHP-.75T C4300B	1-#12, 1-#12, 1-#12	15	1	7	1.3 2.7			8	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C4300A	
	WSHP-.75T C4300A	1-#12, 1-#12, 1-#12	15	1	9		1.3 1.1		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4300A	
	WSHP-.75T C4300A	1-#12, 1-#12, 1-#12	15	1	11			1.3 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4300A	
	WSHP-.75T C4300A	1-#12, 1-#12, 1-#12	15	1	13	1.3 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4300A	
	WSHP-1T C4200	1-#12, 1-#12, 1-#12	20	1	15		2.7 1.1		16	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4200	
	WSHP-.75T C4200	1-#12, 1-#12, 1-#12	15	1	17			1.1 1.3	18	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4200	
	WSHP-.75T C4200	1-#12, 1-#12, 1-#12	15	1	19	1.3 1.3			20	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4300A	
	WSHP-.75T C4300A	1-#12, 1-#12, 1-#12	15	1	21		2.0		22					
					23				24					
					25				26					
					27				28					
					29				30					
						12.5 kVA	10.9 kVA	7.8 kVA						
						47 A	41 A	28 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	31090 VA	100.00%	31090 VA	TOTAL CONNECTED LOAD:	31 kVA
				TOTAL ESTIMATED DEMAND:	31 kVA
				TOTAL CONNECTED CURRENT:	37 A
				TOTAL ESTIMATED DEMAND CURRENT:	37 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M4B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 4112
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-1T C4100A	1-#12, 1-#12, 1-#12	15	1	1	2.0 1.1			2	1	20	1-#12, 1-#12, 1-#12	WSHP-.5T C4100A	
	WSHP-.75T C4100A	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.3		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4100A	
	WSHP-.75T C4100A	1-#12, 1-#12, 1-#12	15	1	5			1.3 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4100A	
	WSHP-.75T C4100A	1-#12, 1-#12, 1-#12	15	1	7	1.3 2.7			8	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C4100B	
	WSHP-.75T C4100B	1-#12, 1-#12, 1-#12	15	1	9		1.3 1.1		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C4100B	
	WSHP-.75T C4100B	1-#12, 1-#12, 1-#12	15	1	11			1.3 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4100B	
	WSHP-.75T C4100B	1-#12, 1-#12, 1-#12	15	1	13	1.3 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4100B	
	WSHP-.75T C4100B	1-#12, 1-#12, 1-#12	15	1	15		1.3 2.0		16	1	15	1-#12, 1-#12, 1-#12	WSHP-1T C4100B	
	WSHP-1.5T C4200	1-#12, 1-#12, 1-#12	20	1	17			2.7 1.3	18	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4200	
	WSHP-.75T C4200	1-#12, 1-#12, 1-#12	15	1	19	1.3 1.1			20	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C4200	
	WSHP-.75T C4200	1-#12, 1-#12, 1-#12	15	1	21		1.3		22					
					23				24					
					25				26					
					27				28					
					29				30					
						12.2 kVA	9.8 kVA	9.4 kVA						
						44 A	35 A	34 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	31320 VA	100.00%	31320 VA	TOTAL CONNECTED LOAD:	31 kVA
				TOTAL ESTIMATED DEMAND:	31 kVA
				TOTAL CONNECTED CURRENT:	38 A
				TOTAL ESTIMATED DEMAND CURRENT:	38 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M5A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 5322
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	WSHP-.75T C5300B	1-#12, 1-#12, 1-#12	15	1	1	1.3 2.0			2	1	15	1-#12, 1-#12, 1-#12	WSHP-1T C5300B	
	WSHP-.75T C5300B	1-#12, 1-#12, 1-#12	15	1	3		1.3 1.1		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C5300B	
	WSHP-1.5T C5300A	1-#12, 1-#12, 1-#12	20	1	5			2.7 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300B	
	WSHP-.75T C5300A	1-#12, 1-#12, 1-#12	15	1	7	1.1 1.3			8	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300B	
	WSHP-.75T C5300A	1-#12, 1-#12, 1-#12	15	1	9		1.3 1.3		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300B	
	WSHP-.75T C5300A	1-#12, 1-#12, 1-#12	15	1	11			1.3 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300A	
	WSHP-1T C5300A	1-#12, 1-#12, 1-#12	15	1	13	2.0 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300A	
	WSHP-.5T C5200	1-#12, 1-#12, 1-#12	15	1	15		1.1 1.3		16	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300A	
	WSHP-.75T C5200	1-#12, 1-#12, 1-#12	15	1	17			1.3 1.3	18	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5300A	
					19	12.5 2.7			20	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C5200	
	DOAS 2	3-#4, 1-#4, 1-#10	60	3	21		12.5 1.1		22	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C5200	
					23			12.5 1.3	24	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5200	
					25	6.4			26					
					27		6.4		28	3	35	3-#8, 1-#8, 1-#10	DOAS 4	
					29			6.4	30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
						30.6 kVA	27.5 kVA	29.5 kVA						
						112 A	99 A	106 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	87590 VA	100.00%	87590 VA	TOTAL CONNECTED LOAD:	88 kVA
				TOTAL ESTIMATED DEMAND:	88 kVA
				TOTAL CONNECTED CURRENT:	105 A
				TOTAL ESTIMATED DEMAND CURRENT:	105 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: M5B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 5112
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	7.5 2.0			2	1	15	1-#12, 1-#12, 1-#12	WSHP-1T C5100A	
1.	ELEV A EA05	3-#4, 1-#4, 1-#10	60	3	3		7.5 1.1		4	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C5100A	
					5			7.5 1.3	6	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100A	
	WSHP-.75T C5100A	1-#12, 1-#12, 1-#12	15	1	7	1.3 1.3			8	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100A	
	WSHP-.75T C5100A	1-#12, 1-#12, 1-#12	15	1	9		1.3 1.3		10	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100A	
	WSHP-1.5T C5100B	1-#12, 1-#12, 1-#12	20	1	11			2.7 1.3	12	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100B	
	WSHP-.5T C5100B	1-#12, 1-#12, 1-#12	15	1	13	1.1 1.3			14	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100B	
	WSHP-.75T C5100B	1-#12, 1-#12, 1-#12	15	1	15		1.3 1.3		16	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100B	
	WSHP-.75T C5100B	1-#12, 1-#12, 1-#12	15	1	17			1.3 1.3	18	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5100B	
	WSHP-1T C5100B	1-#12, 1-#12, 1-#12	15	1	19	2.0 2.7			20	1	20	1-#12, 1-#12, 1-#12	WSHP-1.5T C5200	
	WSHP-.5T C5200	1-#12, 1-#12, 1-#12	15	1	21		1.3 1.3		22	1	15	1-#12, 1-#12, 1-#12	WSHP-.5T C5200	
	WSHP-.5T C5200	1-#12, 1-#12, 1-#12	15	1	23			1.1 1.3	24	1	15	1-#12, 1-#12, 1-#12	WSHP-.75T C5200	
					25	6.4 12.5			26					
	DOAS 4	3-#8, 1-#8, 1-#10	35	3	27		6.4 12.5		28	3	60	3-#4, 1-#4, 1-#10	DOAS 2	
					29			6.4 12.5	30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
						38.1 kVA	35.4 kVA	36.8 kVA						
						138 A	128 A	134 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	22500 VA	100.00%	22500 VA	TOTAL CONNECTED LOAD:	110 kVA
HVAC	87820 VA	100.00%	87820 VA	TOTAL ESTIMATED DEMAND:	110 kVA
				TOTAL CONNECTED CURRENT:	133 A
				TOTAL ESTIMATED DEMAND CURRENT:	133 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE SHUNT TRIP BREAKER WITH CONNECTION FROM BUILDING FIRE ALARM SYSTEM.

PANELBOARD AND WIRING SCHEDULE

PANEL: MDA | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 25 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2322
AMPERES: 400 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SSH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	18.2 12.2			2					
	M2A	3-#1, 1-#1, 1-#8	100	3	3		16.5 8.5		4	3	100	3-#1, 1-#1, 1-#8	M3A	
					5			18.6 9.1	6					
					7	12.5 30.6			8					
	M4A	3-#1, 1-#1, 1-#8	100	3	9		10.9 27.5		10	3	225	3-#300, 1-#300, 1-#4	M5A	
					11			7.8 29.5	12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						73.5 kVA	63.3 kVA	65.0 kVA						
						266 A	229 A	236 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1000 VA	100.00%	1000 VA	TOTAL CONNECTED LOAD:	202 kVA
HVAC	200810 VA	100.00%	200810 VA	TOTAL ESTIMATED DEMAND:	202 kVA
				TOTAL CONNECTED CURRENT:	243 A
				TOTAL ESTIMATED DEMAND CURRENT:	243 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MDB | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 30 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2112
AMPERES: 400 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SSH

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	15.0 11.8			2					
	M2B	3-#1, 1-#1, 1-#8	100	3	3		13.4 9.8		4	3	100	3-#1, 1-#1, 1-#8	M3B	
					5			9.5 8.0	6					
					7	12.2 38.1			8					
	M4B	3-#1, 1-#1, 1-#8	100	3	9		9.8 35.4		10	3	225	3-#300, 1-#300, 1-#4	M5B	
					11			9.4 36.8	12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						77.1 kVA	68.3 kVA	63.6 kVA						
						281 A	249 A	230 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	23500 VA	100.00%	23500 VA	TOTAL CONNECTED LOAD:	209 kVA
HVAC	185640 VA	100.00%	185640 VA	TOTAL ESTIMATED DEMAND:	209 kVA
				TOTAL CONNECTED CURRENT:	251 A
				TOTAL ESTIMATED DEMAND CURRENT:	251 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E604

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1/14/2026 1:27:45 AM

PANELBOARD AND WIRING SCHEDULE

PANEL: R1A1 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 1322
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 1337	1-#12, 1-#12, 1-#12	20	1	1	0.9 0.7			2	1	20	1-#12, 1-#12, 1-#12	REC 1335	
	REC 1333	1-#12, 1-#12, 1-#12	20	1	3		0.4 0.4		4	1	20	1-#12, 1-#12, 1-#12	REC 1333	
	REC 1332	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 1332	
1	REC 1331	1-#12, 1-#12, 1-#12	20	1	7	0.5 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 1331	1
	VISUAL DOORBELL SYSTEM 1331	1-#12, 1-#12, 1-#12	20	1	9		0.1 0.5		10	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 1330	1
1	REC 1330	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 1329	1
1	REC 1329	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 1328	1
1	REC 1328	1-#12, 1-#12, 1-#12	20	1	15		0.5 1.1		16	1	20	1-#10, 1-#10, 1-#10	REC C1300A,C1300B	
1	REC 1327	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 1327	1
1	REC 1326	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 1326	1
1	REC 1325	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 1325	1
1	REC 1324	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 1324	1
1	REC 1323	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 1323	1
	REC 1322	1-#12, 1-#12, 1-#12	20	1	27		0.2 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 1321	1
1	REC 1321	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.9	30	1	20	1-#12, 1-#12, 1-#12	REC 1319	
1	REC 1317	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 1317	1
1	REC 1315	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 1315	1
1	REC 1314	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 1313	
	REC 1313	1-#12, 1-#12, 1-#12	20	1	37	0.4 0.4			38	1	20	1-#12, 1-#12, 1-#12	REC 1312	
	REC 1312	1-#12, 1-#12, 1-#12	20	1	39		0.4 0.1		40	1	20	1-#12, 1-#12, 1-#12	VAV-1 1210AA	
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						7.7 kVA	6.2 kVA	6.3 kVA						
						65 A	52 A	53 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	50 VA	100.00%	50 VA	TOTAL CONNECTED LOAD:	20 kVA
HVAC	50 VA	100.00%	50 VA	TOTAL ESTIMATED DEMAND:	15 kVA
REC	20160 VA	74.80%	15080 VA	TOTAL CONNECTED CURRENT:	56 A
				TOTAL ESTIMATED DEMAND CURRENT:	42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R1A2 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 1322
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 1209	1-#10, 1-#10, 1-#10	20	1	1	0.7 1.2			2	1	20	1-#8, 1-#8, 1-#8	VENDING MACHINE 1209	2
2	VENDING MACHINE 1209	1-#8, 1-#8, 1-#8	20	1	3		1.2 1.2		4	1	20	1-#8, 1-#8, 1-#8	FRIDGE 1209	2
2	ICE MAKER 1209	1-#12, 1-#12, 1-#12	20	1	5			0.6 1.1	6	1	20	1-#8, 1-#8, 1-#8	REC 1210	
	FLOOR BOXES 1210	1-#10, 1-#10, 1-#10	20	1	7	0.7 0.5			8	1	20	1-#10, 1-#10, 1-#10	PROJECTOR 1210	
	MOTORIZED SHADES 1210	1-#12, 1-#12, 1-#12	20	1	9		0.1 0.2		10	1	20	1-#12, 1-#12, 1-#12	PROJECTOR SCREEN 1210	
2	WATER FOUNTAIN C1200	1-#10, 1-#10, 1-#10	20	1	11			0.2 0.4	12	1	20	1-#12, 1-#12, 1-#12	REC 1215	
	REC 1220,1220B,1220C	1-#10, 1-#10, 1-#10	20	1	13	0.9 0.7			14	1	20	1-#10, 1-#10, 1-#10	REC 1220	
	REC 1224,1224A,1220,1300	1-#10, 1-#10, 1-#10	20	1	15		0.9 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 1301	1
1	REC 1301	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 1302	1
1	REC 1302	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 1303	1
1	REC 1303	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 1304	1
1	REC 1304	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 1305	1
1	REC 1305	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 1306	1
1	REC 1306	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 1307	1
1	REC 1307	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 1308	1
1	REC 1308	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 1309	1
1	REC 1309	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 1310	1
1	REC 1310	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 1311	1
1	REC 1311	1-#12, 1-#12, 1-#12	20	1	37	0.5 0.5			38	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 1311	
					39				40					
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						9.0 kVA	7.4 kVA	6.5 kVA						
						76 A	62 A	55 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	5480 VA	100.00%	5480 VA	TOTAL CONNECTED LOAD:	23 kVA
REC	17460 VA	78.64%	13730 VA	TOTAL ESTIMATED DEMAND:	19 kVA
				TOTAL CONNECTED CURRENT:	64 A
				TOTAL ESTIMATED DEMAND CURRENT:	53 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R1B1 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 1100	1-#12, 1-#12, 1-#12	20	1	1	0.7 1.0			2	1	20	1-#12, 1-#12, 1-#12	MICROWAVE 1107	
	REC 1107	1-#12, 1-#12, 1-#12	20	1	3		0.4 0.5		4	1	20	1-#12, 1-#12, 1-#12	REC 1107	
	COPIER 1107	1-#12, 1-#12, 1-#12	20	1	5			1.0 1.0	6	1	20	1-#12, 1-#12, 1-#12	MICROWAVE 1107	2
2	FRIDGE 1107	1-#12, 1-#12, 1-#12	20	1	7	0.2 0.4			8	1	20	1-#12, 1-#12, 1-#12	REC 1111,1113	
1	REC 1115	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 1115	1
	REC 1117	1-#12, 1-#12, 1-#12	20	1	11			0.9 0.7	12	1	20	1-#10, 1-#10, 1-#10	REC C1100A,C1100B	
1	REC 1119	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 1119	1
1	REC 1120	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 1120	
1	REC 1121	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.4	18	1	20	1-#12, 1-#12, 1-#12	REC 1122	
	REC 1122	1-#12, 1-#12, 1-#12	20	1	19	0.4 0.4			20	1	20	1-#12, 1-#12, 1-#12	REC 1123	
	REC 1123	1-#12, 1-#12, 1-#12	20	1	21		0.4 0.4		22	1	20	1-#12, 1-#12, 1-#12	BOILER 1100	
	BP-1 1100	2-#12, 1-#12, 1-#12	15	2	23			0.7 0.4	24	1	20	1-#12, 1-#12, 1-#12	BOILER 1100	
					25	0.7 0.7			26	2	15	2-#12, 1-#12, 1-#12	BP-2 1100	
	BOILER 1100	1-#12, 1-#12, 1-#12	20	1	27		0.4 0.7		28					
	BP-3 1100	2-#12, 1-#12, 1-#12	15	2	29			0.7 0.5	30	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 1109	
					31	0.7 0.5			32	1	20	1-#12, 1-#12, 1-#12	BLUELIGHT PEDESTAL (SITE)	
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						6.7 kVA	4.8 kVA	6.8 kVA						
						58 A	40 A	59 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	4500 VA	100.00%	4500 VA	TOTAL CONNECTED LOAD:	18 kVA
HVAC	5385 VA	100.00%	5385 VA	TOTAL ESTIMATED DEMAND:	18 kVA
REC	8460 VA	100.00%	8460 VA	TOTAL CONNECTED CURRENT:	51 A
				TOTAL ESTIMATED DEMAND CURRENT:	51 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R1B2 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** ELEC / COMM 1203
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
3	HOOD 1209	1-#12, 1-#12, 1-#12	20	1	1	0.2 0.2			2	1	20	1-#12, 1-#12, 1-#12	REC 1209	
2	RANGE 1209	2-#8, 1-#8, 1-#10	40	2	3		2.5 1.2		4	1	20	1-#12, 1-#12, 1-#12	MICROWAVE 1209	
					5			2.5 1.2	6	1	20	1-#12, 1-#12, 1-#12	MICROWAVE 1209	2
	REC 1209	1-#12, 1-#12, 1-#12	20	1	7	0.9 0.9			8	1	20	1-#12, 1-#12, 1-#12	REC 1210	
	FLOOR BOXES 1210	1-#12, 1-#12, 1-#12	20	1	9		0.7 0.2		10	1	20	1-#12, 1-#12, 1-#12	PROJECTOR 1210	
	PROJECTOR 1210	1-#12, 1-#12, 1-#12	20	1	11			0.2 0.2	12	1	20	1-#12, 1-#12, 1-#12	PROJECTOR SCREEN 1210	
	PROJECTOR SCREEN 1210	1-#12, 1-#12, 1-#12	20	1	13	0.2 0.2			14	1	20	1-#12, 1-#12, 1-#12	MOTORIZED SHADES 1210	
	REC 1207	1-#12, 1-#12, 1-#12	20	1	15		0.4 1.1		16	1	20	1-#12, 1-#12, 1-#12	REC 1201	
	REC 1208	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 1206	
	REC 1204	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.2			20	1	20	1-#12, 1-#12, 1-#12	REC 1203	
1	REC 1135	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 1135	1
1	REC 1134	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 1134	1
1	REC 1133	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 1133	1
1	REC 1132	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 1132	1
1	REC 1131	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 1131	1
1	REC 1130	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 1130	1
1	REC 1129	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 1129	1
1	REC 1128	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 1128	1
1	REC 1127	1-#12, 1-#12, 1-#12	20	1	37	0.5 0.5			38	1	20	1-#12, 1-#12, 1-#12	REC 1127	1
1	REC 1126	1-#12, 1-#12, 1-#12	20	1	39		0.5 0.5		40	1	20	1-#12, 1-#12, 1-#12	REC 1126	1
1	REC 1125	1-#12, 1-#12, 1-#12	20	1	41			0.5 0.5	42	1	20	1-#12, 1-#12, 1-#12	REC 1125	1
	VISUAL DOORBELL SYSTEM 1125	1-#12, 1-#12, 1-#12	20	1	43	0.5 0.5			44	1	20	1-#12, 1-#12, 1-#12	REC 1124	1
1	REC 1124	1-#12, 1-#12, 1-#12	20	1	45		0.5 0.4		46	1	20	1-#12, 1-#12, 1-#12	REC EXT DATA BOX	2
2	REC EXT DATA BOX	1-#12, 1-#12, 1-#12	20	1	47			0.4 0.1	48	1	20	1-#12, 1-#12, 1-#12	VAV-1 1210BA	
	PRINT STATION C1200	1-#12, 1-#12, 1-#12	20	1	49	0.5			50					
					51				52					
					53				54					
						8.0 kVA	11.3 kVA	9.9 kVA						
						67 A	96 A	85 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	4110 VA	100.00%	4110 VA	TOTAL CONNECTED LOAD:	29 kVA
HVAC	50 VA	100.00%	50 VA	TOTAL ESTIMATED DEMAND:	24 kVA
REC	19980 VA	75.03%	14990 VA	TOTAL CONNECTED CURRENT:	81 A
KITCH	5000 VA	100.00%	5000 VA	TOTAL ESTIMATED DEMAND CURRENT:	67 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.
3. PROVIDE SHUNT TRIP BREAKER WITH CONNECTION FROM HOOD ANSUL SYSTEM.

PANELBOARD AND WIRING SCHEDULE

PANEL: R2A1 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 2322
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 2337	1-#12, 1-#12, 1-#12	20	1	1	0.9 1.1			2	1	20	1-#10, 1-#10, 1-#10	REC C2300A,C2300B	
1	REC 2335	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.4		4	1	20	1-#12, 1-#12, 1-#12	REC 2332	
	REC 2332	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 2333	
	REC 2333	1-#12, 1-#12, 1-#12	20	1	7	0.4 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 2331	1
1	REC 2331	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 2330	1
1	REC 2330	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 2329	1
1	REC 2329	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 2328	1
1	REC 2328	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 2327	1
1	REC 2327	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 2326	1
1	REC 2326	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 2325	1
1	REC 2325	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 2324	1
1	REC 2324	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 2323	1
1	REC 2323	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.2			26	1	20	1-#12, 1-#12, 1-#12	REC 2322	
1	REC 2321	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 2321	1
	REC 2319	1-#12, 1-#12, 1-#12	20	1	29			0.9 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 2317	1
1	REC 2317	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 2314	1
1	REC 2315	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 2315	1
	REC 2312	1-#12, 1-#12, 1-#12	20	1	35			0.4 0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 2312	
	REC 2313	1-#12, 1-#12, 1-#12	20	1	37	0.4 0.4			38	1	20	1-#12, 1-#12, 1-#12	REC 2313	
2	WASHER 2220	1-#10, 1-#10, 1-#10	20	1	39		1.0 1.0		40	1	20	1-#10, 1-#10, 1-#10	WASHER 2220	2
2	WASHER 2220	1-#10, 1-#10, 1-#10	20	1	41			1.0 2.0	42					
2	WASHER 2220	1-#10, 1-#10, 1-#10	20	1	43	1.0 2.0			44	2	20	2-#8, 1-#8, 1-#8	DRYER 2220	
	DRYER 2220	2-#8, 1-#8, 1-#8	20	2	45		2.0 2.0		46					
					47			2.0 2.0	48	2	20	2-#8, 1-#8, 1-#8	DRYER 2220	
	DRYER 2220	2-#8, 1-#8, 1-#8	20	2	49	2.0 2.0			50					
					51		2.0 2.0		52	2	30	2-#8, 1-#8, 1-#8	DRYER 2220	
					53				54					
						14.6 kVA	16.3 kVA	13.1 kVA						
						123 A	138 A	109 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	24000 VA	100.00%	24000 VA	TOTAL CONNECTED LOAD:	44 kVA
REC	19980 VA	75.03%	14990 VA	TOTAL ESTIMATED DEMAND:	39 kVA
				TOTAL CONNECTED CURRENT:	122 A
				TOTAL ESTIMATED DEMAND CURRENT:	108 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R2A2 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 2322
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 2209,2210,C2200	1-#8, 1-#8, 1-#8	20	1	1	1.1 1.1			2	1	20	1-#8, 1-#8, 1-#8	REC 2215	
	REC C2200,2217,2219,2222	1-#10, 1-#10, 1-#10	20	1	3		1.1 0.2		4	1	20	1-#12, 1-#12, 1-#12	WATER FOUNTAIN C2200	2
	REC 2224	1-#12, 1-#12, 1-#12	20	1	5			0.5 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 2220	
1	REC 2300	1-#12, 1-#12, 1-#12	20	1	7	0.5 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 2300	1
1	REC 2301	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 2301	1
1	REC 2302	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 2302	1
1	REC 2303	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 2303	1
1	REC 2304	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 2304	1
1	REC 2305	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 2305	1
1	REC 2306	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 2306	1
1	REC 2307	1-#12, 1-#12,

PANELBOARD AND WIRING SCHEDULE

PANEL: R2B1 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 2100	1-#12, 1-#12, 1-#12	20	1	1	0.9	1.1					2	1	20	1-#10, 1-#10, 1-#10	REC C2100A,C2100B	
1	REC 2101	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC 2102	
	REC 2102	1-#12, 1-#12, 1-#12	20	1	5					0.4	0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 2103	
	REC 2103	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC 2104	1
1	REC 2104	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC 2105	1
1	REC 2105	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.1	12	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 2105	
1	REC 2106	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC 2106	1
1	REC 2107	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC 2107	1
1	REC 2108	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 2108	1
1	REC 2109	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC 2109	1
1	REC 2110	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC 2110	1
1	REC 2111	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 2111	1
	REC 2112	1-#12, 1-#12, 1-#12	20	1	25	0.2	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC 2113	1
1	REC 2113	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.5			28	1	20	1-#12, 1-#12, 1-#12	REC 2115	1
	REC 2115	1-#12, 1-#12, 1-#12	20	1	29					0.5	0.9	30	1	20	1-#12, 1-#12, 1-#12	REC 2117	
1	REC 2119	1-#12, 1-#12, 1-#12	20	1	31	0.5	0.5					32	1	20	1-#12, 1-#12, 1-#12	REC 2119	1
1	REC 2120	1-#12, 1-#12, 1-#12	20	1	33			0.5	0.5			34	1	20	1-#12, 1-#12, 1-#12	REC 2121	1
1	REC 2121	1-#12, 1-#12, 1-#12	20	1	35					0.5	0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 2122	
	REC 2122	1-#12, 1-#12, 1-#12	20	1	37	0.4	0.4					38	1	20	1-#12, 1-#12, 1-#12	REC 2123	
	REC 2123	1-#12, 1-#12, 1-#12	20	1	39			0.4	1.0			40	1	20	1-#10, 1-#10, 1-#10	WASHER 2204	2.
	DRYER 2204	2-#8, 1-#8, 1-#8	30	2	41					2.0	1.0	42	1	20	1-#10, 1-#10, 1-#10	WASHER 2204	2.
					43	2.0	1.0					44	1	20	1-#10, 1-#10, 1-#10	WASHER 2204	2.
	DRYER 2204	2-#8, 1-#8, 1-#8	30	2	45			2.0	2.0			46	2	30	2-#8, 1-#8, 1-#8	DRYER 2204	
					47					2.0	2.0	48	2	30	2-#8, 1-#8, 1-#8	DRYER 2204	
	DRYER 2204	2-#8, 1-#8, 1-#8	30	2	49	2.0	2.0					50	2	30	2-#8, 1-#8, 1-#8	DRYER 2204	
					51			2.0	2.0			52					
					53							54					
						14.6 kVA		15.7 kVA		12.8 kVA							
						124 A		133 A		107 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	23050 VA	100.00%	23050 VA	TOTAL CONNECTED LOAD:	43 kVA
REC	19980 VA	75.03%	14990 VA	TOTAL ESTIMATED DEMAND:	38 kVA
				TOTAL CONNECTED CURRENT:	119 A
				TOTAL ESTIMATED DEMAND CURRENT:	106 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R2B2 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 2209,2210,C2200	1-#8, 1-#8, 1-#8	20	1	1	1.3	1.1					2	1	20	1-#8, 1-#8, 1-#8	REC 2207	
	REC 2203,2205,2208	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC 2204	
	REC 2202	1-#10, 1-#10, 1-#10	20	1	5					0.7	0.7	6	1	20	1-#12, 1-#12, 1-#12	REC 2200	
1	REC 2135	1-#12, 1-#12, 1-#12	20	1	7	0.5	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC 2135	1
1	REC 2134	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC 2134	1
1	REC 2133	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 2133	1
1	REC 2132	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC 2132	1
1	REC 2131	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC 2131	1
1	REC 2130	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 2130	1
1	REC 2129	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC 2129	1
1	REC 2128	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC 2128	1
1	REC 2127	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 2127	1
1	REC 2126	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC 2126	1
1	REC 2125	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.5			28	1	20	1-#12, 1-#12, 1-#12	REC 2125	1
	VISUAL DOORBELL SYSTEM 2125	1-#12, 1-#12, 1-#12	20	1	29					0.5	0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 2124	1
1	REC 2124	1-#12, 1-#12, 1-#12	20	1	31	0.5	1.0					32	1	20	1-#10, 1-#10, 1-#10	WASHER 2204	2.
2.	WASHER 2204	1-#10, 1-#10, 1-#10	20	1	33			1.0	1.0			34	1	20	1-#10, 1-#10, 1-#10	WASHER 2204	2.
2.	WASHER 2204	1-#10, 1-#10, 1-#10	20	1	35					1.0	2.0	36	2	30	2-#8, 1-#8, 1-#8	DRYER 2204	
2.	WASHER 2204	1-#10, 1-#10, 1-#10	20	1	37	1.0	2.0					38					
	DRYER 2204	2-#8, 1-#8, 1-#8	20	2	39			2.0	2.0			40	2	30	2-#8, 1-#8, 1-#8	DRYER 2204	
					41					2.0	2.0	42					
	DRYER 2204	2-#8, 1-#8, 1-#8	30	2	43	2.0	2.0					44					
					45			2.0	2.0			46					
2.	WASHER 2204	1-#10, 1-#10, 1-#10	20	1	47					1.0		48					
					49							50					
					51							52					
					53							54					
						15.2 kVA		15.2 kVA		13.7 kVA							
						129 A		129 A		114 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	26500 VA	100.00%	26500 VA	TOTAL CONNECTED LOAD:	44 kVA
REC	17640 VA	78.34%	13820 VA	TOTAL ESTIMATED DEMAND:	40 kVA
				TOTAL CONNECTED CURRENT:	123 A
				TOTAL ESTIMATED DEMAND CURRENT:	112 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R3A1 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 3322
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 3337	1-#12, 1-#12, 1-#12	20	1	1	0.9	1.1					2	1	20	1-#10, 1-#10, 1-#10	REC C3300A, C3300B	
1	REC 3335	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC 3332	
	REC 3332	1-#12, 1-#12, 1-#12	20	1	5					0.4	0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 3333	
	REC 3333	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC 3331	1
1	REC 3331	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC 3330	1
1	REC 3330	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 3329	1
1	REC 3329	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC 3328	1
1	REC 3328	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC 3327	1
1	REC 3327	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 3326	1
1	REC 3326	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC 3325	1
1	REC 3325	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC 3324	1
1	REC 3324	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 3323	1
1	REC 3323	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.2					26	1	20	1-#12, 1-#12, 1-#12	REC 3322	
1	REC 3321	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.5			28	1	20	1-#12, 1-#12, 1-#12	REC 3321	1
	REC 3319	1-#12, 1-#12, 1-#12	20	1	29					0.9	0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 3317	1
1	REC 3317	1-#12, 1-#12, 1-#12	20	1	31	0.5	0.5					32	1	20	1-#12, 1-#12, 1-#12	REC 3314	1
	REC 3308	1-#12, 1-#12, 1-#12	20	1	33			0.5	0.5			34	1	20	1-#12, 1-#12, 1-#12	REC 3315	1
	REC 3312	1-#12, 1-#12, 1-#12	20	1	35					0.4	0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 3312	
	REC 3313	1-#12, 1-#12, 1-#12	20	1	37	0.4	0.4					38	1	20	1-#12, 1-#12, 1-#12	REC 3313	
					39							40					
					41							42					
					43							44					
					45							46					
					47							48					
					49							50					
					51							52					
					53							54					
						7.6 kVA		6.3 kVA		6.1 kVA							
						63 A		53 A		51 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
REC	19980 VA	75.03%	14990 VA	TOTAL CONNECTED LOAD:	20 kVA
				TOTAL ESTIMATED DEMAND:	15 kVA
				TOTAL CONNECTED CURRENT:	55 A
				TOTAL ESTIMATED DEMAND CURRENT:	42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R3A2 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 3322
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	REC 3212	1-#12, 1-#12, 1-#12	20	1	1	0.5	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC 3212	1
1	REC 3214	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.5			4	1	20	1-#12, 1-#12, 1-#12	REC 3214	1
	REC 3215	1-#12, 1-#12, 1-#12	20	1	5					0.4	0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 3215	
1	REC 3216	1-#12, 1-#12, 1-#12	20	1	7	0.5	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC 3216	1
1	REC 3217	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC 3218	1
1	REC 3218	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 3218	
	REC C3200,3219,3220	1-#10, 1-#10, 1-#10	20	1	13	0.7	0.2					14	1	20	1-#12, 1-#12, 1-#12	WATER FOUNTAIN 3222	2
	REC 3222,3224	1-#12, 1-#12, 1-#12	20	1	15			0.7	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC 3300	1
1	REC 3300	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 3301	1
1	REC 3301	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC 3302	1
1	REC 3302	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC 3303	1
1	REC 3303	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 3304	1
1	REC 3304	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC 3305	1
1	REC 3305	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.5			28	1	20	1-#12, 1-#12, 1-#12	REC 3306	1
1	REC 3306	1-#12, 1-#12, 1-#12	20	1	29					0.5	0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 3307	1
1	REC 3307	1-#12, 1-#12, 1-#12	20	1	31	0.5	0.5					32	1	20	1-#12, 1-#12, 1-#12	REC 3308	1
1	REC 3308	1-#12, 1-#12, 1-#12	20	1	33			0.5	0.5			34	1	20	1-#12, 1-#12, 1-#12	REC 3309	1
1	REC 3309	1-#12, 1-#12, 1-#12	20	1	35					0.5	0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 3310	1
1	REC 3310	1-#12, 1-#12, 1-#12	20	1	37	0.5	0.5					38	1	20	1-#12, 1-#12, 1-#12	REC 3311	1
1	REC 3311	1-#12, 1-#12, 1-#12	20	1	39			0.5	0.5			40	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 3311	
					41							42					
					43							44					
					45							46					
					47							48					
					49							50					
					51							52					
					53							54					
						7.4 kVA		7.7 kVA		6.1 kVA							
						63 A		66 A		51 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1200 VA	100.00%	1200 VA	TOTAL CONNECTED LOAD:	21 kVA
REC	19980 VA	75.03%	14990 VA	TOTAL ESTIMATED DEMAND:	16 kVA
				TOTAL CONNECTED CURRENT:	59 A
				TOTAL ESTIMATED DEMAND CURRENT:	45 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R3B1 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 3112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 3100	1-#12, 1-#12, 1-#12	20	1	1	0.9	0.4					2	1	20	1-#12, 1-#12, 1-#12	REC 3102	
	REC 3102	1-#12, 1-#12, 1-#12	20	1	3			0.4	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC 3103	
	REC 3103	1-#12, 1-#12, 1-#12	20	1	5					0.4	1.1	6	1	20	1-#10, 1-#10, 1-#10	REC C3100A,C3100B	
1	REC 3105	1-#12, 1-#12, 1-#12	20	1	7	0.5	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC 3105	1
1	REC 3104	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC 3104	1
1	REC 3106	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 3106	1
1	REC 3107	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC 3107	1
1	REC 3108	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC 3108	1
1	REC 3109	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 3109	1
1	REC 3110	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC 3110	1
1	REC 3111	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC 3111	1
	REC 3112	1-#12, 1-#12, 1-#12	20	1	23					0.2	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 3113	1
1	REC 3113	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC 3115	1
1	REC 3115	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.9			28	1	20	1-#12, 1-#12, 1-#12	REC 3117	
1	REC 3119	1-#12, 1-#12, 1-#12	20	1	29					0.5	0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 3119	1
1	REC 3121	1-#12, 1-#12, 1-#12	20	1	31	0.5	0.5					32	1	20	1-#12, 1-#12, 1-#12	REC 3121	1
	REC 3120	1-#12, 1-#12, 1-#12	20	1	33			0.5	0.4			34	1	20	1-#12, 1-#12, 1-#12	REC 3122	
	REC 3122	1-#12, 1-#12, 1-#12	20	1	35					0.4	0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 3123	
	REC 3123	1-#12, 1-#12, 1-#12	20	1	37	0.4	0.5					38	1	20	1-#12, 1-#12, 1-#12	REC 3101	1
					39							40					
					41							42					
					43							44					
					45							46					
					47							48					
					49							50					
					51							52					
					53							54					
						7.6 kVA		6.3 kVA		6.1 kVA							
						63 A		53 A		51 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
REC	19980 VA	75.03%	14990 VA	TOTAL CONNECTED LOAD:	20 kVA
				TOTAL ESTIMATED DEMAND:	15 kVA
				TOTAL CONNECTED CURRENT:	55 A
				TOTAL ESTIMATED DEMAND CURRENT:	42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PPROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R3B2 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 3112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	REC 3211	1-#12, 1-#12, 1-#12	20	1	1	0.5	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC 3211	1
1	REC 3212	1-#10, 1-#10, 1-#10	20	1	3			0.5	0.5			4	1	20	1-#10, 1-#10, 1-#10	REC 3212	1
	REC C3200,3203,3204,3202,3202A	1-#8, 1-#8, 1-#8	20	1	5					1.1	0.5	6	1	20	1-#12, 1-#12, 1-#12	REC 3209	1
1	REC 3209	1-#12, 1-#12, 1-#12	20	1	7	0.5	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC 3210	1
1	REC 3210	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.4			10	1	20	1-#12, 1-#12, 1-#12	REC 3207	
	REC 3207	1-#12, 1-#12, 1-#12	20	1	11					0.4	0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 3208

PANELBOARD AND WIRING SCHEDULE

PANEL: R4A1 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 4322
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 4337	1-#12, 1-#12, 1-#12	20	1	1	0.9 1.1			2	1	20	1-#10, 1-#10, 1-#10	REC C4300A, C4300B	
1	REC 4335	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.4		4	1	20	1-#12, 1-#12, 1-#12	REC 4333	
	REC 4333	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 4332	
	REC 4332	1-#12, 1-#12, 1-#12	20	1	7	0.4 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 4331	1
1	REC 4331	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 4330	1
1	REC 4330	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 4329	1
1	REC 4329	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 4328	1
1	REC 4328	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 4327	1
1	REC 4327	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 4326	1
1	REC 4326	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 4325	1
1	REC 4325	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 4324	1
1	REC 4324	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 4323	1
	REC 4322	1-#12, 1-#12, 1-#12	20	1	25	0.2 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 4321	1
1	REC 4323	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.9		28	1	20	1-#12, 1-#12, 1-#12	REC 4319	
1	REC 4321	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 4317	1
1	REC 4317	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 4314	1
1	REC 4315	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 4315	1
	REC 4312	1-#12, 1-#12, 1-#12	20	1	35			0.4 0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 4312	
	REC 4313	1-#12, 1-#12, 1-#12	20	1	37	0.4 0.4			38	1	20	1-#12, 1-#12, 1-#12	REC 4313	
					39				40					
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						7.6 kVA	6.7 kVA	5.8 kVA						
						64 A	57 A	48 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
REC	19980 VA	75.03%	14990 VA

PANEL TOTALS
TOTAL CONNECTED LOAD: 20 kVA
TOTAL ESTIMATED DEMAND: 15 kVA
TOTAL CONNECTED CURRENT: 55 A
TOTAL ESTIMATED DEMAND CURRENT: 42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R4A2 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 4322
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC C4200, 4219, 4220	1-#10, 1-#10, 1-#10	20	1	1	0.7 0.5			2	1	20	1-#12, 1-#12, 1-#12	REC 4213	1
1	REC 4213	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.5		4	1	20	1-#12, 1-#12, 1-#12	REC 4214	1
1	REC 4214	1-#12, 1-#12, 1-#12	20	1	5			0.5 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 4215	
1	REC 4215	1-#12, 1-#12, 1-#12	20	1	7	0.4 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 4216	1
1	REC 4213	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 4217	1
1	REC 4218	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 4218	1
	VISUAL DOORBELL SYSTEM 4218	1-#12, 1-#12, 1-#12	20	1	13	0.1 0.2			14	1	20	1-#12, 1-#12, 1-#12	WATER FOUNTAIN 4222	2
	REC 4222, 4224	1-#10, 1-#10, 1-#10	20	1	15		0.9 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 4300	1
1	REC 4300	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 4301	1
1	REC 4301	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 4302	1
1	REC 4302	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 4303	1
1	REC 4303	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 4304	1
1	REC 4304	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 4305	1
1	REC 4305	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 4306	1
1	REC 4306	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 4307	1
1	REC 4307	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 4308	1
1	REC 4308	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 4309	1
1	REC 4309	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 4310	1
1	REC 4310	1-#12, 1-#12, 1-#12	20	1	37	0.5 0.5			38	1	20	1-#12, 1-#12, 1-#12	REC 4311	1
1	REC 4311	1-#12, 1-#12, 1-#12	20	1	39		0.5 0.1		40	1	20	1-#12, 1-#12, 1-#12	VISUAL DOORBELL SYSTEM 4311	
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						6.7 kVA	7.4 kVA	6.3 kVA						
						57 A	62 A	53 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
EQUIP	300 VA	100.00%	300 VA
REC	20160 VA	74.80%	15080 VA

PANEL TOTALS
TOTAL CONNECTED LOAD: 20 kVA
TOTAL ESTIMATED DEMAND: 15 kVA
TOTAL CONNECTED CURRENT: 57 A
TOTAL ESTIMATED DEMAND CURRENT: 43 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R4B1 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 4112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 4100	1-#12, 1-#12, 1-#12	20	1	1	0.9 1.1			2	1	20	1-#10, 1-#10, 1-#10	REC C4100A, C4100B	
1	REC 4101	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.4		4	1	20	1-#12, 1-#12, 1-#12	REC 4102	
	REC 4102	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 4103	
	REC 4103	1-#12, 1-#12, 1-#12	20	1	7	0.4 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 4104	1
1	REC 4104	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 4105	1
1	REC 4105	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 4106	1
1	REC 4106	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 4107	1
1	REC 4101	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 4108	1
1	REC 4108	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 4109	1
1	REC 4109	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 4110	1
1	REC 4110	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 4111	1
1	REC 4111	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.2	24	1	20	1-#12, 1-#12, 1-#12	REC 4112	
1	REC 4113	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 4113	1
1	REC 4115	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 4115	1
	REC 4117	1-#12, 1-#12, 1-#12	20	1	29			0.9 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 4119	1
1	REC 4119	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 4121	1
1	REC 4121	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 4120	1
	REC 4122	1-#12, 1-#12, 1-#12	20	1	35			0.4 0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 4122	
	REC 4123	1-#12, 1-#12, 1-#12	20	1	37	0.4 0.4			38	1	20	1-#12, 1-#12, 1-#12	REC 4123	
					39				40					
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						7.9 kVA	6.3 kVA	5.8 kVA						
						67 A	53 A	48 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
REC	19980 VA	75.03%	14990 VA

PANEL TOTALS
TOTAL CONNECTED LOAD: 20 kVA
TOTAL ESTIMATED DEMAND: 15 kVA
TOTAL CONNECTED CURRENT: 55 A
TOTAL ESTIMATED DEMAND CURRENT: 42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R4B2 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 4112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	REC 4211	1-#12, 1-#12, 1-#12	20	1	1	0.5 0.5			2	1	20	1-#12, 1-#12, 1-#12	REC 4211	1
1	REC 4212	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.5		4	1	20	1-#12, 1-#12, 1-#12	REC 4212	1
1	REC 4209	1-#12, 1-#12, 1-#12	20	1	5			0.5 0.5	6	1	20	1-#12, 1-#12, 1-#12	REC 4209	1
1	REC 4210	1-#12, 1-#12, 1-#12	20	1	7	0.5 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 4210	1
	REC 4207	1-#12, 1-#12, 1-#12	20	1	9		0.4 0.4		10	1	20	1-#12, 1-#12, 1-#12	REC 4207	
1	REC 4208	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 4208	1
1	REC 4205	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 4206	1
1	REC 4206	1-#12, 1-#12, 1-#12	20	1	15		0.5 1.1		16	1	20	1-#8, 1-#8, 1-#8	REC C4200,4202,4202A,4203	
2	MICROWAVE 4202	1-#8, 1-#8, 1-#8	20	1	17			1.2 0.9	18	1	20	1-#10, 1-#10, 1-#10	REC 4200, 4202	
1	REC 4134	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 4134	1
1	REC 4135	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 4135	1
1	REC 4132	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 4132	1
1	REC 4133	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 4134	1
1	REC 4130	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 4130	1
1	REC 4131	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 4131	1
1	REC 4128	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 4128	1
1	REC 4129	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 4129	1
1	REC 4126	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 4126	1
1	REC 4125	1-#12, 1-#12, 1-#12	20	1	37	0.5 0.5			38	1	20	1-#12, 1-#12, 1-#12	REC 4125	1
	VISUAL DOORBELL SYSTEM 4125	1-#12, 1-#12, 1-#12	20	1	39		0.1 0.5		40	1	20	1-#12, 1-#12, 1-#12	REC 4124	1
1	REC 4124	1-#12, 1-#12, 1-#12	20	1	41			0.5 0.5	42	1	20	1-#12, 1-#12, 1-#12	REC 4127	1
1	REC 4127	1-#12, 1-#12, 1-#12	20	1	43	0.5			44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						8.1 kVA	7.3 kVA	8.6 kVA						
						69 A	60 A	73 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
EQUIP	1250 VA	100.00%	1250 VA
REC	22680 VA	72.05%	16340 VA

PANEL TOTALS
TOTAL CONNECTED LOAD: 24 kVA
TOTAL ESTIMATED DEMAND: 18 kVA
TOTAL CONNECTED CURRENT: 66 A
TOTAL ESTIMATED DEMAND CURRENT: 49 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R5A1 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 5322
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC E9205	1-#12, 1-#12, 1-#12	20	1	1	0.2 0.9			2	1	20	1-#12, 1-#12, 1-#12	REC 5337	
1	REC 5335	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.4		4	1	20	1-#12, 1-#12, 1-#12	REC 5333	
	REC 5333	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 5332	
	REC C5300A, C5300B	1-#10, 1-#10, 1-#10	20	1	7	1.1 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 5331	1
	REC 5332	1-#12, 1-#12, 1-#12	20	1	9		0.4 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 5330	1
1	REC 5331	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 5329	1
1	REC 5330	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 5328	1
1	REC 5329	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 5327	1
1	REC 5328	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 5326	1
1	REC 5327	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 5325	1
1	REC 5326	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 5324	1
1	REC 5325	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 5323	1
1	REC 5324	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 5321	1
1	REC 5326	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.9		28	1	20	1-#12, 1-#12, 1-#12	REC 5319	
1	REC 5321	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 5317	1
1	REC 5317	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 5315	1
1	REC 5315	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.4		34	1	20	1-#12, 1-#12, 1-#12	REC 5313	
1	REC 5314	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.4	36	1	20	1-#12, 1-#12, 1-#12	REC 5313	
	REC 5312	1-#12, 1-#12, 1-#12	20	1	37	0.4 0.4			38	1	20	1-#12, 1-#12, 1-#12	REC 5312	
	REC 5322	1-#12, 1-#12, 1-#12	20	1	39		0.2		40					
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						7.7 kVA	6.5 kVA	5.9 kVA						
						65 A	55 A	50 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
REC	20160 VA	74.80%	15080 VA

PANEL TOTALS
TOTAL CONNECTED LOAD: 20 kVA
TOTAL ESTIMATED DEMAND: 15 kVA
TOTAL CONNECTED CURRENT: 56 A
TOTAL ESTIMATED DEMAND CURRENT: 42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R5A2 | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 5322
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** RDA

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	REC 5213	1-#12, 1-#12, 1-#12	20	1	1	0.5 0.5			2	1	20	1-#12, 1-#12, 1-#12	REC 5213	1
1	REC 5214	1-#12, 1-#12, 1-#12	20	1	3		0.5 0.5		4	1	20	1-#12, 1-#12, 1-#12	REC 5214	1
	REC 5215	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 5215	
1	REC 5216	1-#12, 1-#12, 1-#12	20	1	7	0.5 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 5216	1
1	REC 5218	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 5218	1
	VISUAL DOORBELL SYSTEM 5218	1-#12, 1-#12, 1-#12	20	1	11			0.1 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 5217	1
2	WATER FOUNTAIN 5222	1-#12, 1-#12, 1-#12	20	1	13	0.2 0.7			14	1	20	1-#10, 1-#10, 1-#10	REC C5200, 5219, 5220	
1	REC 5300	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.9		16	1	20	1-#10, 1-#10, 1-#10	REC 5222, 5224	
1	REC 5301	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 5300	1
1	REC 5302	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 5301	1
1	REC 5303	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 5302	1
1	REC 5304	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 5303	1
1	REC 5305	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 5304	1
1	REC 5306	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 5305	1
1	REC 5307	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 5306	1
1	REC 5308	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 5307	1
1	REC 5309	1-#12,

PANELBOARD AND WIRING SCHEDULE

PANEL: R5B1 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 5112
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 5100	1-#12, 1-#12, 1-#12	20	1	1	0.9 0.2			2	1	20	1-#12, 1-#12, 1-#12	REC EA05	
	REC C5100A, C5100B	1-#10, 1-#10, 1-#10	20	1	3		1.1 0.5		4	1	20	1-#12, 1-#12, 1-#12	REC 5101	1
	REC 5102	1-#12, 1-#12, 1-#12	20	1	5			0.4 0.4	6	1	20	1-#12, 1-#12, 1-#12	REC 5102	
	REC 5103	1-#12, 1-#12, 1-#12	20	1	7	0.4 0.4			8	1	20	1-#12, 1-#12, 1-#12	REC 5103	
1	REC 5104	1-#12, 1-#12, 1-#12	20	1	9		0.5 0.5		10	1	20	1-#12, 1-#12, 1-#12	REC 5104	1
1	REC 5105	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 5105	1
1	REC 5106	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 5106	1
1	REC 5107	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.5		16	1	20	1-#12, 1-#12, 1-#12	REC 5107	1
1	REC 5108	1-#12, 1-#12, 1-#12	20	1	17			0.5 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 5108	1
1	REC 5109	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 5109	1
1	REC 5110	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 5110	1
1	REC 5111	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 5111	1
1	REC 5113	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 5113	1
1	REC 5115	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.2		28	1	20	1-#12, 1-#12, 1-#12	REC 5112	
	REC 5117	1-#12, 1-#12, 1-#12	20	1	29			0.9 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 5115	1
1	REC 5119	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 5119	1
1	REC 5121	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 5120	1
	REC 5122	1-#12, 1-#12, 1-#12	20	1	35			0.4 0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 5121	1
	REC 5123	1-#12, 1-#12, 1-#12	20	1	37	0.4 0.4			38	1	20	1-#12, 1-#12, 1-#12	REC 5122	
					39		0.4		40	1	20	1-#12, 1-#12, 1-#12	REC 5123	
					41				42					
					43				44					
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						6.8 kVA	7.0 kVA	6.3 kVA						
						58 A	59 A	53 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
REC	20160 VA	74.80%	15080 VA	TOTAL CONNECTED LOAD:	20 kVA
				TOTAL ESTIMATED DEMAND:	15 kVA
				TOTAL CONNECTED CURRENT:	56 A
				TOTAL ESTIMATED DEMAND CURRENT:	42 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
2. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: R5B2 — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 5112
AMPERES: 125 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** RDB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	REC 5211	1-#12, 1-#12, 1-#12	20	1	1	0.5 0.5			2	1	20	1-#12, 1-#12, 1-#12	REC 5211	1
1	REC 5211	1-#10, 1-#10, 1-#10	20	1	3		0.5 0.5		4	1	20	1-#10, 1-#10, 1-#10	REC 5212	1
1	REC 5209	1-#12, 1-#12, 1-#12	20	1	5			0.5 0.5	6	1	20	1-#12, 1-#12, 1-#12	REC 5209	1
1	REC 5210	1-#12, 1-#12, 1-#12	20	1	7	0.5 0.5			8	1	20	1-#12, 1-#12, 1-#12	REC 5210	1
	REC 5207	1-#12, 1-#12, 1-#12	20	1	9		0.4 0.4		10	1	20	1-#12, 1-#12, 1-#12	REC 5207	
1	REC 5208	1-#12, 1-#12, 1-#12	20	1	11			0.5 0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 5208	1
1	REC 5205	1-#12, 1-#12, 1-#12	20	1	13	0.5 0.5			14	1	20	1-#12, 1-#12, 1-#12	REC 5206	1
1	REC 5206	1-#12, 1-#12, 1-#12	20	1	15		0.5 0.9		16	1	20	1-#10, 1-#10, 1-#10	REC 5200, 5202	
	REC C5200,5202A,5202,5203,5204	1-#8, 1-#8, 1-#8	20	1	17			1.1 0.5	18	1	20	1-#12, 1-#12, 1-#12	REC 5134	1
1	REC 5134	1-#12, 1-#12, 1-#12	20	1	19	0.5 0.5			20	1	20	1-#12, 1-#12, 1-#12	REC 5135	1
1	REC 5135	1-#12, 1-#12, 1-#12	20	1	21		0.5 0.5		22	1	20	1-#12, 1-#12, 1-#12	REC 5132	1
1	REC 5132	1-#12, 1-#12, 1-#12	20	1	23			0.5 0.5	24	1	20	1-#12, 1-#12, 1-#12	REC 5133	1
1	REC 5133	1-#12, 1-#12, 1-#12	20	1	25	0.5 0.5			26	1	20	1-#12, 1-#12, 1-#12	REC 5130	1
1	REC 5130	1-#12, 1-#12, 1-#12	20	1	27		0.5 0.5		28	1	20	1-#12, 1-#12, 1-#12	REC 5131	1
1	REC 5131	1-#12, 1-#12, 1-#12	20	1	29			0.5 0.5	30	1	20	1-#12, 1-#12, 1-#12	REC 5128	1
1	REC 5128	1-#12, 1-#12, 1-#12	20	1	31	0.5 0.5			32	1	20	1-#12, 1-#12, 1-#12	REC 5129	1
1	REC 5129	1-#12, 1-#12, 1-#12	20	1	33		0.5 0.5		34	1	20	1-#12, 1-#12, 1-#12	REC 5126	1
1	REC 5126	1-#12, 1-#12, 1-#12	20	1	35			0.5 0.5	36	1	20	1-#12, 1-#12, 1-#12	REC 5127	1
1	REC 5127	1-#12, 1-#12, 1-#12	20	1	37	0.5 0.5			38	1	20	1-#12, 1-#12, 1-#12	REC 5124	1
1	REC 5124	1-#12, 1-#12, 1-#12	20	1	39		0.5 0.5		40	1	20	1-#12, 1-#12, 1-#12	REC 5125	1
1	REC 5125	1-#12, 1-#12, 1-#12	20	1	41			0.5 0.2	42	1	20	1-#12, 1-#12, 1-#12	ELEV A EA05 MISC	
	VISUAL DOORBELL SYSTEM 5125	1-#12, 1-#12, 1-#12	20	1	43	0.1 0.5			44	2	15	2-#12, 1-#12, 1-#12	ELEVATOR SPLIT SYSTEM	
	REC ROOFTOP	1-#12, 1-#12, 1-#12	20	1	45		0.4 0.5		46					
2	MICROWAVE 5202	1-#8, 1-#8, 1-#8	20	1	47			1.2	48					
					49				50					
					51				52					
					53				54					
						8.1 kVA	8.4 kVA	9.0 kVA						
						68 A	71 A	75 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1450 VA	100.00%	1450 VA	TOTAL CONNECTED LOAD:	25 kVA
HVAC	1000 VA	100.00%	1000 VA	TOTAL ESTIMATED DEMAND:	19 kVA
REC	23040 VA	71.70%	16520 VA	TOTAL CONNECTED CURRENT:	71 A
				TOTAL ESTIMATED DEMAND CURRENT:	53 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: RDA — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 2322
AMPERES: 800 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	14.6 14.5			2					
	R2A1	3-#1/0, 1-#1/0, 1-#6	125	3	3		16.3 15.6		4	3	125	3-#1/0, 1-#1/0, 1-#6	R2A2	
					5			13.1 12.2	6					
	R3A1	3-#1/0, 1-#1/0, 1-#6	125	3	7	7.6 7.4			8					
					9		6.3 7.7		10	3	125	3-#1/0, 1-#1/0, 1-#6	R3A2	
					11			6.1 6.1	12					
	R4A1	3-#1/0, 1-#1/0, 1-#6	125	3	13	7.6 6.7			14					
					15		6.7 7.4		16	3	125	3-#1/0, 1-#1/0, 1-#6	R4A2	
					17			5.8 6.3	18					
					19	7.7 7.5			20					
	R5A1	3-#1/0, 1-#1/0, 1-#6	125	3	21		6.5 7.9		22	3	125	3-#1/0, 1-#1/0, 1-#6	R5A2	
					23			5.9 6.7	24					
	SPACE	--	--	1	25	-- --			26	1	--	--	SPACE	
	SPACE	--	--	1	27		-- --		28	1	--	--	SPACE	
	SPACE	--	--	1	29			-- --	30	1	--	--	SPACE	
						73.5 kVA	74.3 kVA	62.2 kVA						
						627 A	634 A	518 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	51030 VA	100.00%	51030 VA	TOTAL CONNECTED LOAD:	210 kVA
HVAC	1000 VA	100.00%	1000 VA	TOTAL ESTIMATED DEMAND:	136 kVA
REC	158040 VA	53.16%	84020 VA	TOTAL CONNECTED CURRENT:	583 A
				TOTAL ESTIMATED DEMAND CURRENT:	378 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RDB — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECH/ELEC 2112
AMPERES: 800 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	14.6 15.2			2					
	R2B1	3-#1/0, 1-#1/0, 1-#6	125	3	3		15.7 15.2		4	3	125	3-#1/0, 1-#1/0, 1-#6	R2B2	
					5			12.8 13.7	6					
	R3B1	3-#1/0, 1-#1/0, 1-#6	125	3	7	7.6 8.1			8					
					9		6.3 7.4		10	3	125	3-#1/0, 1-#1/0, 1-#6	R3B2	
					11			6.1 8.7	12					
	R4B1	3-#1/0, 1-#1/0, 1-#6	125	3	13	7.9 8.1			14					
					15		6.3 7.3		16	3	125	3-#1/0, 1-#1/0, 1-#6	R4B2	
					17			5.8 8.6	18					
					19	6.8 8.1			20					
	R5B1	3-#1/0, 1-#1/0, 1-#6	125	3	21		7.0 8.4		22	3	125	3-#1/0, 1-#1/0, 1-#6	R5B2	
					23			6.3 9.0	24					
	SPACE	--	--	1	25	-- --			26	1	--	--	SPACE	
	SPACE	--	--	1	27		-- --		28	1	--	--	SPACE	
	SPACE	--	--	1	29			-- --	30	1	--	--	SPACE	
						76.4 kVA	73.6 kVA	71.0 kVA						
						640 A	616 A	591 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	53950 VA	100.00%	53950 VA	TOTAL CONNECTED LOAD:	221 kVA
HVAC	1000 VA	100.00%	1000 VA	TOTAL ESTIMATED DEMAND:	143 kVA
REC	165960 VA	53.01%	87980 VA	TOTAL CONNECTED CURRENT:	613 A
				TOTAL ESTIMATED DEMAND CURRENT:	397 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBDH — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 35 KAIC
VOLTAGE: 480Y/277V,3P,4W — **SPD:** Yes — **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 300 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** ATS-SB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	38.5 7.8			2					
	T2	3-#350, 1-#350, 1-#4	250	3	3		44.7 7.8		4	3	45	3-#6, 1-#6, 1-#10	DWSP-1 1100	
					5			38.7 7.8	6					
					7	7.5			8					
1.	ELEV B EB05	3-#4, 1-#4, 1-#10	60	3	9		7.5		10					
					11			7.5	12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						53.8 kVA	60.0 kVA	54.0 kVA						
						194 A	217 A	195 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	110710 VA	100.00%	110710 VA	TOTAL CONNECTED LOAD:	168 kVA
HVAC	31650 VA	100.00%	31650 VA	TOTAL ESTIMATED DEMAND:	160 kVA
REC	25380 VA	69.70%	17690 VA	TOTAL CONNECTED CURRENT:	202 A
				TOTAL ESTIMATED DEMAND CURRENT:	193 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE SHUNT TRIP BREAKER WITH CONNECTION FROM BUILDING FIRE ALARM SYSTEM.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBDL — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 400 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** T2

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	5.3 9.8			2					
	SBL1A	3-#2, 1-#2, 1-#6	50	3	3		5.8 14.3		4	3	125	3-#1/0, 1-#1/0, 1-#6	SBL2B	
					5			3.3 12.1	6					
					7	18.9 0.2			8	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 1100C	
	SBL2A	3-#300, 1-#300, 1-#4	225	3	9		17.6 0.7		10	1	20	1-#12, 1-#12, 1-#12	REC 1100C	
					11			16.7 1.0	12					
	REC 1100C	1-#12, 1-#12, 1-#12	20	1	13	0.7 1.0			14	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 1100C	
	REC 1100C	1-#12, 1-#12, 1-#12	20	1	15		0.5 1.0		16					
	STANDING RACK 1100C	1-#12, 1-#12, 1-#12	20	1	17			0.2 1.0	18	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 1100C	
	STANDING RACK 1100C	1-#12, 1-#12, 1-#12	20	1	19	0.2 0.2			20	1	20	1-#12, 1-#12, 1-#12	REC 1100B	
	STANDING RACK 1100C	2-#10, 1-#10, 1-#10	30	2	21		1.0 0.2		22	1	20	1-#12, 1-#12, 1-#12	SUMP PUMP EA01	
					23			1.0 0.2	24	1	20	1-#12, 1-#12, 1-#12	SUMP PUMP EB01	
	REC 1100B	1-#12, 1-#12, 1-#12	20	1	25	0.2 0.5			26	1	20	1-#12, 1-#12, 1-#12	GENERATOR BATTERY CHARGER	
	REC 1100B	1-#12, 1-#12, 1-#12	20	1	27		0.2 0.1		28	1	20	1-#12, 1-#12, 1-#12	CT-1 HEAT TRACE	
	REC EA01	1-#12, 1-#12, 1-#12	20	1	29			0.2 1.5	30	1	20	1-#8, 1-#8, 1-#8	CT-1 HEATER	
	REC EB01	1-#12, 1-#12, 1-#12	20	1	31	0.2 0.1			32	1	20	1-#12, 1-#12, 1-#12	CT-1 CONTROLLER	
	GENERATOR BLOCK HEATER	1-#8, 1-#8, 1-#8	20	1	33		1.5 0.1		34	1	20	1-#12, 1-#12, 1-#12	CT-1 HEAT TRACE	
	CT-1 HEAT TRACE	1-#12, 1-#12, 1-#12	20	1	35			0.1 1.2	36	2	20	2-#12, 1-#12, 1-#12	CWSHP-1,5T 1100C	
	CT-1 CONTROLLER	1-#12, 1-#12, 1-#12	20	1	37	0.1 1.2			38					
	CT-1 HEATER	1-#8, 1-#8, 1-#8	20	1	39		1.5 0.2		40	1	20	1-#12, 1-#12, 1-#12	BAS PANEL	
	CT-1 HEAT TRACE	1-#12, 1-#12, 1-#12	20	1	41			0.1 0.2	42	1	20	1-#12, 1-#12, 1-#12	GWH CONTROL PANEL 1100	
	RP-1 1100	1-#12, 1-#12, 1-#12	20	1	43	0.1 0.1			44	1	20	1-#12, 1-#12, 1-#12	SUMP PUMP CONTROL PANEL 1203	
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
						38.5 kVA	44.7 kVA	38.7 kVA						
						321 A	373 A	323 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	64950 VA	100.00%	64950 VA	TOTAL CONNECTED LOAD:	122 kVA
HVAC	31650 VA	100.00%	31650 VA	TOTAL ESTIMATED DEMAND:	114 kVA
REC	25380 VA	69.70%	17690 VA	TOTAL CONNECTED CURRENT:	339 A
				TOTAL ESTIMATED DEMAND CURRENT:	317 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E608

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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PANELBOARD AND WIRING SCHEDULE

PANEL: SBL1A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **LOCATION:** MECH/ELEC 1322
AMPERES: 50 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SBDL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	AV RACK 1210AA	1-#12, 1-#12, 1-#12	20	1	1	0.4			2	1	20	1-#12, 1-#12, 1-#12	AV RACK 1210AA	
	STANDING RACK 1316	1-#12, 1-#12, 1-#12	20	1	3		0.4	1.0	4					
	STANDING RACK 1316	1-#12, 1-#12, 1-#12	20	1	5				6	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 1316	
	STANDING RACK 1316	2-#10, 1-#10, 1-#10	30	2	7	1.0	0.4		8	1	20	1-#12, 1-#12, 1-#12	REC 1316	
					9		1.0	0.5	10	1	20	1-#12, 1-#12, 1-#12	REC 1316	
					11			0.5	12	1	20	1-#12, 1-#12, 1-#12	REC 1219	
	REC 1219	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5		14	1	20	1-#12, 1-#12, 1-#12	HEADEND EQUIPMENT 1219	
					15			0.5	16	1	20	1-#12, 1-#12, 1-#12	HEADEND EQUIPMENT 1219	
	STANDING RACK 1219	2-#10, 1-#10, 1-#10	30	2	17			1.0	18	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 1219	
					19	1.0	1.2		20					
	CWSHP-.5T 1219	1-#8, 1-#8, 1-#8	20	1	21			1.3	22	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 1316	
	SUMP PUMP CONTROL PANEL 1219	1-#12, 1-#12, 1-#12	20	1	23			0.1	24					
					25				26					
					27				28					
					29				30					
						5.3 kVA	5.8 kVA	3.3 kVA						
						47 A	51 A	28 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	7050 VA	100.00%	7050 VA	TOTAL CONNECTED LOAD:	14 kVA
HVAC	3580 VA	100.00%	3580 VA	TOTAL ESTIMATED DEMAND:	14 kVA
REC	3780 VA	100.00%	3780 VA	TOTAL CONNECTED CURRENT:	40 A
				TOTAL ESTIMATED DEMAND CURRENT:	40 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL2A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2322
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SBDL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	2.3	6.0		2					
	SBL3A	3-#6, 1-#6, 1-#10	50	3	3			5.0	4	3	50	3-#6, 1-#6, 1-#10	SBL4A	
					5				6					
	SBL5A	3-#6, 1-#6, 1-#10	50	3	7	6.1	0.5		8	1	20	1-#12, 1-#12, 1-#12	REC 2212	
					9			2.8	10	1	20	1-#10, 1-#10, 1-#10	REC 2212	
					11				12	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 2212	
	STANDING RACK 2212	2-#10, 1-#10, 1-#10	30	2	13	1.0	0.4		14	1	20	1-#12, 1-#12, 1-#12	REC 2316	
					15			1.0	16	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 2316	
	REC 2316	1-#12, 1-#12, 1-#12	20	1	17				18	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 2316	
	STANDING RACK 2316	2-#10, 1-#10, 1-#10	30	2	19	1.0	0.4		20	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 2316	
					21			1.0	22	2	15	2-#12, 1-#12, 1-#12	CWSHP-.5T 2212	
	STANDING RACK 2316	1-#12, 1-#12, 1-#12	20	1	23				24					
	CWSHP-1.5T 2316	2-#12, 1-#12, 1-#12	20	2	25	1.2			26					
					27			1.2	28					
					29				30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					
						18.9 kVA	17.6 kVA	16.7 kVA						
						158 A	148 A	139 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	25400 VA	100.00%	25400 VA	TOTAL CONNECTED LOAD:	53 kVA
HVAC	16420 VA	100.00%	16420 VA	TOTAL ESTIMATED DEMAND:	52 kVA
REC	11340 VA	94.09%	10670 VA	TOTAL CONNECTED CURRENT:	148 A
				TOTAL ESTIMATED DEMAND CURRENT:	146 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL2B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **LOCATION:** MECH/ELEC 2112
AMPERES: 125 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SBDL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	1.6	2.4		2					
	SBL3B	3-#6, 1-#6, 1-#10	50	3	3			3.2	4	3	50	3-#6, 1-#6, 1-#10	SBL4B	
					5				6					
	SBL5B	3-#6, 1-#6, 1-#10	50	3	7	2.3	0.4		8	1	20	1-#12, 1-#12, 1-#12	REC 2118	
					9			4.7	10	1	20	1-#12, 1-#12, 1-#12	REC 2118	
					11				12					
	STANDING RACK 2118	2-#10, 1-#10, 1-#10	30	2	13	1.0	1.0		14	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 2118	
					15			1.0	16	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 2118	
	STANDING RACK 2118	1-#12, 1-#12, 1-#12	20	1	17				18					
	CWSHP-1.5T 2118	2-#12, 1-#12, 1-#12	20	2	19	1.2			20					
					21			1.2	22					
					23				24					
					25				26					
					27				28					
					29				30					
						9.8 kVA	14.3 kVA	12.1 kVA						
						82 A	122 A	104 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	20400 VA	100.00%	20400 VA	TOTAL CONNECTED LOAD:	36 kVA
HVAC	9320 VA	100.00%	9320 VA	TOTAL ESTIMATED DEMAND:	36 kVA
REC	6480 VA	100.00%	6480 VA	TOTAL CONNECTED CURRENT:	100 A
				TOTAL ESTIMATED DEMAND CURRENT:	100 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL3A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **LOCATION:** MECH/ELEC 3322
AMPERES: 50 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SBL2A

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 3316	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.5		2	1	20	1-#12, 1-#12, 1-#12	REC 3316	
					3				4					
	STANDING RACK 3316	2-#10, 1-#10, 1-#10	30	2	5			1.0	6	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 3316	
	STANDING RACK 3316	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.4		8	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 3316	
					9			1.0	10	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 3316	
	STANDING RACK 3222A	2-#10, 1-#10, 1-#10	15	2	11				12					
	REC 3222A	1-#12, 1-#12, 1-#12	20	1	13	0.4	0.4		14	1	20	1-#12, 1-#12, 1-#12	REC 3222A	
	STANDING RACK 3222A	1-#12, 1-#12, 1-#12	20	1	15		0.4	0.5	16	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 3222A	
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						2.3 kVA	5.0 kVA	4.7 kVA						
						20 A	45 A	42 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	5000 VA	100.00%	5000 VA	TOTAL CONNECTED LOAD:	12 kVA
HVAC	4330 VA	100.00%	4330 VA	TOTAL ESTIMATED DEMAND:	12 kVA
REC	2700 VA	100.00%	2700 VA	TOTAL CONNECTED CURRENT:	33 A
				TOTAL ESTIMATED DEMAND CURRENT:	33 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL3B | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **LOCATION:** MECH/ELEC 3112
AMPERES: 50 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SBL2B

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 3118	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.5		2	1	20	1-#12, 1-#12, 1-#12	REC 3118	
	STANDING RACK 3118	2-#10, 1-#10, 1-#10	30	2	3			1.0	4	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 3118	
					5				6					
	STANDING RACK 3118	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.4		8	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 3118	
					9			1.2	10	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 3118	
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						1.6 kVA	3.2 kVA	3.2 kVA						
						14 A	28 A	28 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	4000 VA	100.00%	4000 VA	TOTAL CONNECTED LOAD:	8 kVA
HVAC	2330 VA	100.00%	2330 VA	TOTAL ESTIMATED DEMAND:	8 kVA
REC	1620 VA	100.00%	1620 VA	TOTAL CONNECTED CURRENT:	22 A
				TOTAL ESTIMATED DEMAND CURRENT:	22 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL4A | **MAINS TYPE:** MCB | **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **LOCATION:** MECH/ELEC 4322
AMPERES: 50 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SBL2A

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC 4316	1-#12, 1-#12, 1-#12	20	1	1	0.4	1.5		2	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 4316	
	REC 4316	1-#12, 1-#12, 1-#12	20	1	3			0.5	4					
	STANDING RACK 4316	2-#10, 1-#10, 1-#10	30	2	5			1.5	6	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 4316	
					7	1.5	1.2		8	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 4316	
	STANDING RACK 4316	1-#12, 1-#12, 1-#12	20	1	9			0.4	10					
	CWSHP-1T 4222A	2-#10, 1-#10, 1-#10	15	2	11				12	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 4222A	
					13	1.0	0.5		14					
	STANDING RACK 4222A	1-#12, 1-#12, 1-#12	20	1	15			0.4	16	1	20	1-#12, 1-#12, 1-#12	REC 4222A	
	REC 4222A	1-#12, 1-#12, 1-#12	20	1	17			0.4	18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						6.0 kVA	4.3 kVA	3.7 kVA						
						51 A	36 A	31 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	7000 VA	100.00%	7000 VA	TOTAL CONNECTED LOAD:	14 kVA
HVAC	4330 VA	100.00%	4330 VA	TOTAL ESTIMATED DEMAND:	14 kVA
REC	2700 VA	100.00%	2700 VA	TOTAL CONNECTED CURRENT:	39 A
				TOTAL ESTIMATED DEMAND CURRENT:	39 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E609

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PANELBOARD AND WIRING SCHEDULE

PANEL: SBL4B — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 4112
AMPERES: 50 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SBL2B

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	0.5			2	1	20	1-#12, 1-#12, 1-#12	REC 4118	
	REC 4118	1-#12, 1-#12, 1-#12	20	1	3		0.4	1.5	4	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 4118	
	STANDING RACK 4118	2-#10, 1-#10, 1-#10	30	2	5				6					
					7	1.5	0.4		8	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 4118	
	STANDING RACK 4118	1-#12, 1-#12, 1-#12	20	1	9		0.4	1.2	10	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 4118	
					11			1.2	12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						2.4 kVA	3.4 kVA	4.2 kVA						
						20 A	29 A	36 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6000 VA	100.00%	6000 VA	TOTAL CONNECTED LOAD:	10 kVA
HVAC	2330 VA	100.00%	2330 VA	TOTAL ESTIMATED DEMAND:	10 kVA
REC	1620 VA	100.00%	1620 VA	TOTAL CONNECTED CURRENT:	28 A
				TOTAL ESTIMATED DEMAND CURRENT:	28 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL5A — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 5322
AMPERES: 50 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SBL2A

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	DOAS 4 HEAT TRACE	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.2		2	1	20	1-#12, 1-#12, 1-#12	DOAS HEAT TRACE	
	REC 5316	1-#12, 1-#12, 1-#12	20	1	3		0.5	0.4	4	1	20	1-#12, 1-#12, 1-#12	REC 5316	
	STANDING RACK 5316	2-#10, 1-#10, 1-#10	30	2	5			1.5	6	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 5316	
					7	1.5	1.5		8					
	STANDING RACK 5316	1-#12, 1-#12, 1-#12	20	1	9		0.4	0.4	10	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 5316	
	CWSHP-1T 5222A	2-#10, 1-#10, 1-#10	15	2	11			1.0	12	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 5316	
					13	1.0	1.2		14					
	REC 5222A	1-#12, 1-#12, 1-#12	20	1	15		0.4	0.4	16	1	20	1-#12, 1-#12, 1-#12	REC 5222A	
	STANDING RACK 5222A	1-#12, 1-#12, 1-#12	20	1	17			0.4	18					
	STANDING RACK 5222A	2-#10, 1-#10, 1-#10	30	2	19	0.5			20					
					21		0.5		22					
					23				24					
					25				26					
					27				28					
					29				30					
						6.1 kVA	2.8 kVA	5.5 kVA						
						54 A	24 A	49 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	7400 VA	100.00%	7400 VA	TOTAL CONNECTED LOAD:	14 kVA
HVAC	4330 VA	100.00%	4330 VA	TOTAL ESTIMATED DEMAND:	14 kVA
REC	2700 VA	100.00%	2700 VA	TOTAL CONNECTED CURRENT:	40 A
				TOTAL ESTIMATED DEMAND CURRENT:	40 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: SBL5B — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECH/ELEC 5112
AMPERES: 50 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** SBL2B

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	DOAS-3 HEAT TRACE	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.2		2	1	20	1-#12, 1-#12, 1-#12	DOAS HEAT TRACE	
	REC 5118	1-#12, 1-#12, 1-#12	20	1	3		0.5	1.5	4	2	30	2-#10, 1-#10, 1-#10	STANDING RACK 5118	
	REC 5118	1-#12, 1-#12, 1-#12	20	1	5				6					
	STANDING RACK 5118	2-#10, 1-#10, 1-#10	30	2	7	1.5	0.4		8	1	20	1-#12, 1-#12, 1-#12	STANDING RACK 5118	
					9		1.5	1.2	10	2	20	2-#12, 1-#12, 1-#12	CWSHP-1.5T 5118	
	STANDING RACK 5118	1-#12, 1-#12, 1-#12	20	1	11			0.4	12					
					13			1.2	14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						2.3 kVA	4.7 kVA	3.4 kVA						
						19 A	41 A	30 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6400 VA	100.00%	6400 VA	TOTAL CONNECTED LOAD:	10 kVA
HVAC	2330 VA	100.00%	2330 VA	TOTAL ESTIMATED DEMAND:	10 kVA
REC	1620 VA	100.00%	1620 VA	TOTAL CONNECTED CURRENT:	29 A
				TOTAL ESTIMATED DEMAND CURRENT:	29 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: AP1B — **MAINS TYPE:** MCB — **MIN. PANEL KAIC RATING:** 10 KAIC
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** BEDROOM 1109B
AMPERES: 60 A — **MOUNTING:** FLUSH — **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	REC 1109B	1-#12, 1-#12, 1-#12	20	1	1	0.7	0.4		2	1	20	1-#12, 1-#12, 1-#12	REC 1109D	
	DRYER 1338	2-#12, 1-#12, 1-#12	20	2	3		0.8	0.2	4	1	20	1-#12, 1-#12, 1-#12	WASHER 1138	2
					5			0.8	6	1	20	1-#12, 1-#12, 1-#12	REC 1109A	1
2	DISHWASHER 1109	1-#12, 1-#12, 1-#12	20	1	7	1.2	0.4		8	1	20	1-#12, 1-#12, 1-#12	REC 1109	1
2	MICROWAVE 1109	1-#12, 1-#12, 1-#12	20	1	9		1.2	2.5	10	2	40	2-#8, 1-#8, 1-#10	RANGE 1109	2
3	HOOD 1109	1-#12, 1-#12, 1-#12	20	1	11			0.2	12					
1	REC 1109	1-#12, 1-#12, 1-#12	20	1	13	0.2	0.2		14	1	20	1-#12, 1-#12, 1-#12	FRIDGE 1109	2
1	REC 1109	1-#12, 1-#12, 1-#12	20	1	15		1.1	0.3	16	1	20	1-#12, 1-#12, 1-#12	LTNG	
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
						3.0 kVA	6.0 kVA	4.2 kVA						
						25 A	51 A	36 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	4100 VA	100.00%	4100 VA	TOTAL CONNECTED LOAD:	13 kVA
LTNG	281 VA	125.00%	351 VA	TOTAL ESTIMATED DEMAND:	13 kVA
REC	3780 VA	100.00%	3780 VA	TOTAL CONNECTED CURRENT:	37 A
KITCH	5000 VA	100.00%	5000 VA	TOTAL ESTIMATED DEMAND CURRENT:	37 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE CIRCUIT WITH AFCI BREAKER.
2. PROVIDE CIRCUIT WITH GFCI BREAKER.
3. PROVIDE SHUNT TRIP BREAKER WITH CONNECTION FROM HOOD ANSUL SYSTEM.

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ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E610

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SWITCHBOARD AND WIRING SCHEDULE

SWITCHBOARD: SSH | **MAINS TYPE:** MCB | **kAIC RATING:** 65 KAIC
VOLTAGE: 480Y/277V,3P,4W | **SPD:** Yes | **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 2000 A | **MOUNTING:** FLOOR | **SUPPLY FROM:** UTILITY XFMR

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	POLES	OCP	LOAD (kVA)	REMARKS
1	T1					3	800 A	534.8	1, 3
2	MDA					3	400 A	201.8	1, 3
3	MDB					3	400 A	209.0	1, 3
4	M1A					3	100 A	57.7	1
5	M1B					3	225 A	117.4	1
6	CT-1					3	100 A	43.2	1
7	CT-1					3	100 A	43.2	1
8	ATS-SB					3	300 A	167.7	1
9	ATS-LS					3	400 A	40.2	1
10	SPACE	--	--	--	--	1	--	--	
11	SPACE	--	--	--	--	1	--	--	
12	SPACE	--	--	--	--	1	--	--	
13	SPACE	--	--	--	--	1	--	--	
14	SPACE	--	--	--	--	1	--	--	
15	SPACE	--	--	--	--	1	--	--	
16	SPACE	--	--	--	--	1	--	--	
17	SPACE	--	--	--	--	1	--	--	
18	SPACE	--	--	--	--	1	--	--	
19	SPACE	--	--	--	--	1	--	--	
20	SPACE	--	--	--	--	1	--	--	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	266780 VA	100.00%	266780 VA	**TOTAL CONN. LOAD:**	1415 kVA
HVAC	685235 VA	100.00%	685235 VA	**TOTAL EST. DEMAND:**	1219 kVA
KITCH	10000 VA	100.00%	10000 VA	**TOTAL CONN. CURRENT:**	1702 A
LTNG	33921 VA	125.00%	42401 VA	**TOTAL EST. DEMAND CURRENT:**	1466 A
REC	419220 VA	51.19%	214610 VA		

NOTES:
PROVIDE SERVICE ENTRANCE RATED, ELECTRONIC MAIN CIRCUIT BREAKER WITH LSIG ADJUSTMENT AND ARC ENERGY REDUCING MAINTENANCE SWITCH AND STATUS INDICATOR.

1. SEE POWER RISER DIAGRAM FOR FEEDER WIRE AND CONDUIT INFORMATION.
2. CIRCUIT BREAKER SHALL HAVE ARC ENERGY REDUCING MAINTENANCE SWITCH AND STATUS INDICATOR.
3. CIRCUIT SHALL BE 100% RATED.

SWITCHBOARD AND WIRING SCHEDULE

SWITCHBOARD: SSL | **MAINS TYPE:** MCB | **kAIC RATING:** 42 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **LOCATION:** MECH / ELEC DOMESTIC WATER 1100
AMPERES: 1600 A | **MOUNTING:** FLOOR | **SUPPLY FROM:** T1

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	POLES	OCP	LOAD (kVA)	REMARKS
1	RDA					3	800 A	210.1	1, 3
2	RDB					3	800 A	220.9	1, 3
3	R1A1					3	125 A	20.3	1, 3
4	R1A2					3	125 A	22.9	1, 3
5	R1B1					3	125 A	18.3	1, 3
6	R1B2					3	125 A	29.1	1, 3
7	AP1B					3	60 A	13.2	1, 3
8	SPACE	--	--	--	--	1	--	--	
9	SPACE	--	--	--	--	1	--	--	
10	SPACE	--	--	--	--	1	--	--	
11	SPACE	--	--	--	--	1	--	--	
12	SPACE	--	--	--	--	1	--	--	
13	SPACE	--	--	--	--	1	--	--	
14	SPACE	--	--	--	--	1	--	--	
15	SPACE	--	--	--	--	1	--	--	
16	SPACE	--	--	--	--	1	--	--	
17	SPACE	--	--	--	--	1	--	--	
18	SPACE	--	--	--	--	1	--	--	
19	SPACE	--	--	--	--	1	--	--	
20	SPACE	--	--	--	--	1	--	--	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	123220 VA	100.00%	123220 VA	**TOTAL CONN. LOAD:**	535 kVA
HVAC	7485 VA	100.00%	7485 VA	**TOTAL EST. DEMAND:**	343 kVA
KITCH	10000 VA	100.00%	10000 VA	**TOTAL CONN. CURRENT:**	1485 A
LTNG	281 VA	125.00%	351 VA	**TOTAL EST. DEMAND CURRENT:**	952 A
REC	393840 VA	51.27%	201920 VA		

NOTES:
PROVIDE ELECTRONIC MAIN CIRCUIT BREAKER WITH LSIG ADJUSTMENT AND ARC ENERGY REDUCING MAINTENANCE SWITCH AND STATUS INDICATOR.

1. SEE POWER RISER DIAGRAM FOR FEEDER WIRE AND CONDUIT INFORMATION.
2. CIRCUIT BREAKER SHALL HAVE ARC ENERGY REDUCING MAINTENANCE SWITCH AND STATUS INDICATOR.
3. CIRCUIT SHALL BE 100% RATED.

PANELBOARD AND WIRING SCHEDULE

PANEL: RDA | **MAINS TYPE:** MCB | **MIN. PANEL kAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2322
AMPERES: 800 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	14.6	14.5		2					
	R2A1	3-#1/0, 1-#1/0, 1-#6	125	3	3			16.3	15.6		4	3	125	3-#1/0, 1-#1/0, 1-#6	R2A2	
					5					13.1	12.2	6				
					7	7.6	7.4					8				
	R3A1	3-#1/0, 1-#1/0, 1-#6	125	3	9			6.3	7.7			10	3	125	3-#1/0, 1-#1/0, 1-#6	R3A2	
					11					6.1	6.1	12				
					13	7.6	6.7					14				
	R4A1	3-#1/0, 1-#1/0, 1-#6	125	3	15			6.7	7.4			16	3	125	3-#1/0, 1-#1/0, 1-#6	R4A2	
					17					5.8	6.3	18				
					19	7.7	7.5					20				
	R5A1	3-#1/0, 1-#1/0, 1-#6	125	3	21			6.5	7.9			22	3	125	3-#1/0, 1-#1/0, 1-#6	R5A2	
					23					5.9	6.7	24				
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
						73.5 kVA	74.3 kVA	62.2 kVA									
						627 A	634 A	518 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	51030 VA	100.00%	51030 VA	**TOTAL CONNECTED LOAD:**	210 kVA
HVAC	1000 VA	100.00%	1000 VA	**TOTAL ESTIMATED DEMAND:**	136 kVA
REC	158040 VA	53.16%	84020 VA	**TOTAL CONNECTED CURRENT:**	583 A
				TOTAL ESTIMATED DEMAND CURRENT:	378 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: RDB | **MAINS TYPE:** MCB | **MIN. PANEL kAIC RATING:** 22 KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECH/ELEC 2112
AMPERES: 800 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** SSL

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A	B	C	CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	14.6	15.2		2					
	R2B1	3-#1/0, 1-#1/0, 1-#6	125	3	3			15.7	15.2		4	3	125	3-#1/0, 1-#1/0, 1-#6	R2B2	
					5					12.8	13.7	6				
					7	7.6	8.1					8				
	R3B1	3-#1/0, 1-#1/0, 1-#6	125	3	9			6.3	7.4			10	3	125	3-#1/0, 1-#1/0, 1-#6	R3B2	
					11					6.1	8.7	12				
					13	7.9	8.1					14				
	R4B1	3-#1/0, 1-#1/0, 1-#6	125	3	15			6.3	7.3			16	3	125	3-#1/0, 1-#1/0, 1-#6	R4B2	
					17					5.8	8.6	18				
					19	6.8	8.1					20				
	R5B1	3-#1/0, 1-#1/0, 1-#6	125	3	21			7.0	8.4			22	3	125	3-#1/0, 1-#1/0, 1-#6	R5B2	
					23					6.3	9.0	24				
	SPACE	--	--	1	25	--	--					26	1	--	--	SPACE	
	SPACE	--	--	1	27			--	--			28	1	--	--	SPACE	
	SPACE	--	--	1	29					--	--	30	1	--	--	SPACE	
						76.4 kVA	73.6 kVA	71.0 kVA									
						640 A	616 A	591 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	53950 VA	100.00%	53950 VA	**TOTAL CONNECTED LOAD:**	221 kVA
HVAC	1000 VA	100.00%	1000 VA	**TOTAL ESTIMATED DEMAND:**	143 kVA
REC	165960 VA	53.01%	87980 VA	**TOTAL CONNECTED CURRENT:**	613 A
				TOTAL ESTIMATED DEMAND CURRENT:	397 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET NUMBER
E611

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BUILDING SQUARE FOOTAGE 120,246

SSH LOAD CALCULATION				
TYPE	VA/SQFT	VA	DEMAND FACTOR	VA
HVAC	8	961,968	1.25	1,202,460
LIGHTING	1	120,246	1.25	150,308
RECEPTACLES	3	360,738	FIRST 10KVA AT 100% AND REMAINING AT 50%	185,369
MISCELLANEOUS	1	120,246	1	120,246
(2) ELEVATORS	-	44,895	1	44,895
(2)FUTURE PUMPS	-	44,895	1.25	56,118
FIRE PUMP (50HP)	-	54,040	1	54,040
JOCKEY PUMP	-	11,639	1	11,639

1,718,667 TOTAL CONNECTIONED LOAD (VA) — 1,825,075 TOTAL DEMAND LOAD (VA)
1,719 KVA — 1,825 KVA
2,067 AMPS @ 480V 3P — 2,195 AMPS @ 480V 3P

THREE PHASE DRY TYPE TRANSFOMER SCHEDULE

GENERAL NOTES:
A. UTILIZE PRIMARY AND SECONDARY FEEDER SIZES BELOW UNLESS OTHERWISE NOTED ON RISER DIAGRAM.
B. CONFIRM / COORDINATE TRANSFORMER AND TERMINAL BREAKERS' LUG SIZES WITH CONDUCTOR SIZES INDICATED.
C. COMPLY WITH NEC 240.87 FOR BREAKERS 1200A AND LARGER.
D. TRANSFORMER SECONDARY CONDUCTORS ARE ADJUSTED TO REFLECT THE NEUTRAL CONDUCTOR AS A CURRENT-CARRYING CONDUCTOR.

NOTES:
1. CONNECT GROUNDING ELECTRODE CONDUCTOR FROM TRANSFORMER X0 TERMINAL TO BUILDING STEEL IF AVAILABLE, OR TO OTHER BUILDING GROUND SYSTEM AS DESIGNATED.
2. CONDUCTOR SIZING BASED ON INDICATED TERMINAL BREAKER. REFER TO PANEL SCHEDULES AND/OR ONE-LINE DIAGRAM FOR FINAL SELECTION.
3. GROUNDING CONDUCTOR FROM TRANSFORMER TO PRIMARY OVERCURRENT DEVICE SIZED AS AN EQUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.122.
4. BONDING CONDUCTOR FROM TRANSFORMER TO SECONDARY OVERCURRENT DEVICE SIZED AS A SEPARATELY DERIVED SYSTEM SUPPLY SIDE BONDING JUMPER PER NEC TABLE 250.66.

RATED KVA	PRIMARY - 480 DELTA			SECONDARY - 208Y/120V			
	TERMINAL BREAKER (NOTE 2)	COPPER CONDUCTOR SIZE (NOTE 3)	CONDUIT SIZE	COPPER CONDUCTOR SIZE (NOTE 4)	CONDUIT SIZE	GROUNDING ELECTRODE CONDUCTOR SIZE (NOTE 1)	TERMINAL BREAKER (NOTE 2)
9	20A/3P	3#12, #12G	3/4"	4#8, #8G	1"	#8	35A/3P
15	30A/3P	3#10, #10G	3/4"	4#6, #8G	1"	#8	60A/3P
30	50A/3P	3#8, #10G	3/4"	4#2, #8G	1 1/2"	#8	100A/3P
45	80A/3P	3#4, #8G	1"	4#2/0, #4G	2"	#4	175A/3P
75	150A/3P	3#1/0, #6G	1 1/2"	4 - 300KCMIL, #2G	2 1/2"	#2	250A/3P
112.5	250A/3P	3 - 250 KCMIL, #4G	2 1/2"	4#4/0, #2/0G (2 SETS)	2 1/2"	#2/0	400A/3P
150	300A/3P	3 - 300 KCMIL, #4G	2 1/2"	4 - 400 KCMIL, #2/0G (2 SETS)	3"	#2/0	600A/3P
225	400A/3P	3 - 500 KCMIL, #3G	3"	4 - 350 KCMIL, #2/0G (3 SETS)	3"	#2/0	800A/3P
300	500A/3P	3#4/0, #2G (2 SETS)	2"	4 - 400 KCMIL, #3/0G (4 SETS)	3"	#3/0	1200A/3P
500	800A/3P	3 - 500 KCMIL, #1/0G (2 SETS)	3.5"	4 - 500 KCMIL, #4/0G (5 SETS)	3.5"	#3/0	1600A/3P

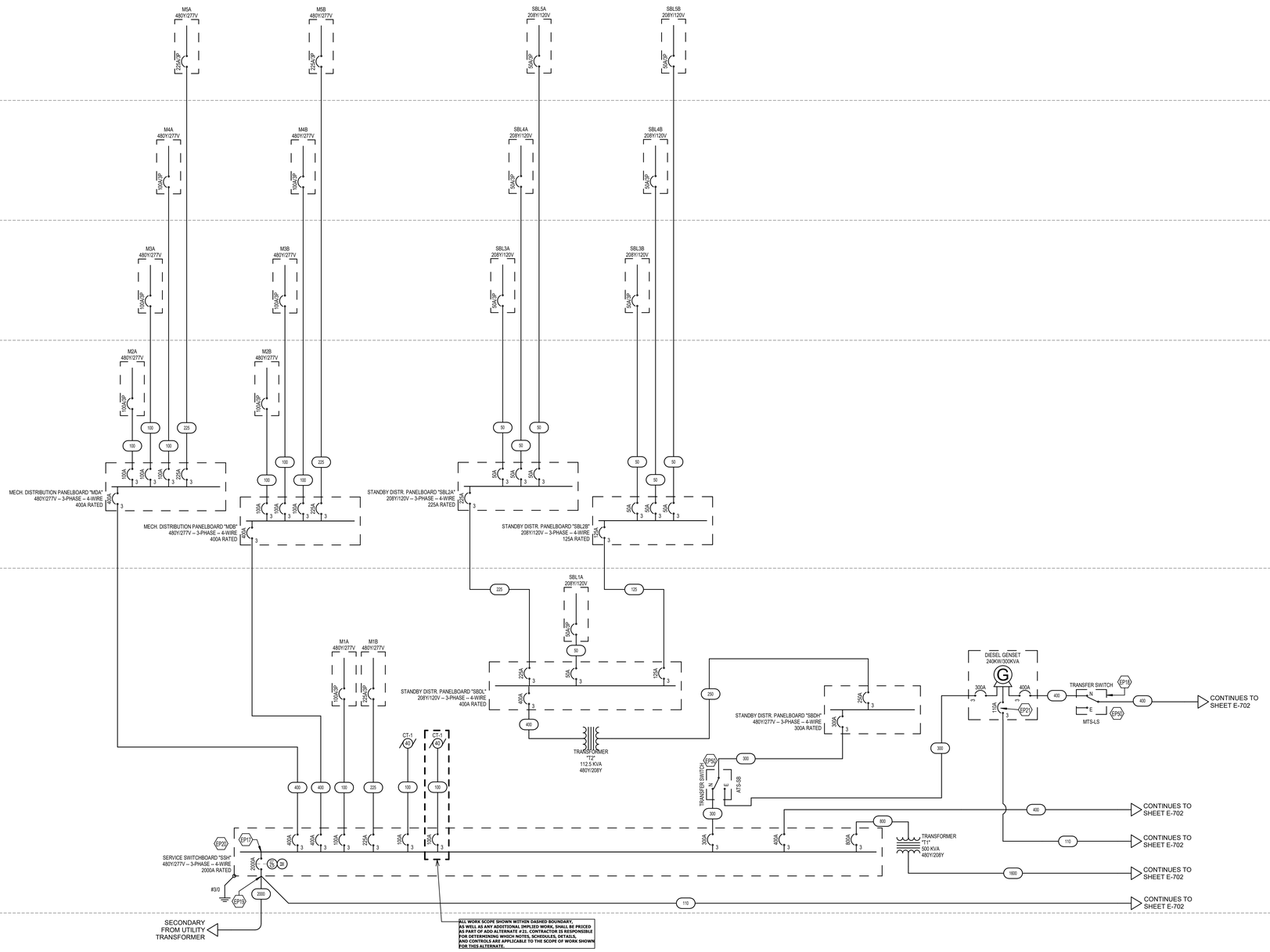
FEEDER SIZING NOTE:

FEEDER SIZES AS SHOWN ON THIS DIAGRAM DO NOT ACCOUNT FOR VOLTAGE DROP. REFER TO PANEL SCHEDULES FOR FEEDER SIZES WHICH HAVE BEEN SIZED TO COMPENSATE FOR CALCULATED VOLTAGE DROP. IN CASES WHERE THERE IS A DISCREPANCY BETWEEN SIZES SHOWN IN FEEDER SCHEDULE ON THIS SHEET AND FEEDER SIZES SHOWN IN PANEL SCHEDULES, CONTRACTOR SHALL PROVIDE FEEDERS SIZED PER PANEL SCHEDULES.

ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:
• TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL.

TAG	OCPD SETTING	WIRE SIZE	EQUIP. GROUND SIZE	CONDUIT SIZE
-	-	-	-	-
20	20/3 (4W)	(4) #12	(1) #12	3/4"
30	30/3 (4W)	(4) #10	(1) #10	3/4"
50	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
60	60/3 (4W)	(4) #6	(1) #10	1"
80	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
100	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
110	110/3 (4W)	(4) #2	(1) #6	1-1/2"
125	125/3 (4W)	(4) #1	(1) #6	1-1/2"
150	150/3 (4W)	(4) #1/0	(1) #6	2"
175	175/3 (4W)	(4) #2/0	(1) #6	2"
200	200/3 (4W)	(4) #3/0	(1) #6	2"
225	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
250	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
300	300/3 (4W)	(4) #350 KCMIL	(1) #4	3"
350	350/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
400	400/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
500	500/3 (4W)	2 RUNS OF (4) - #250 KCMIL/PHASE	(1) #2	3"
600	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
700	700/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
800	800/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
1000	1000/3 (4W)	3 RUNS OF (4) - #500 KCMIL/PHASE	(1) #2/0	3-1/2"
1200	1200/3 (4W)	4 RUNS OF (4) - #350 KCMIL/PHASE	(1) #3/0	3-1/2"
1600	1600/3 (4W)	5 RUNS OF (4) - #500 KCMIL/PHASE	(1) #4/0	3-1/2"
2000	2000/3 (4W)	6 RUNS OF (4) - #500 KCMIL/PHASE	(1) #250 KCMIL	3-1/2"
3000	3000/3 (4W)	8 RUNS OF (4) - #500 KCMIL/PHASE	(1) #400 KCMIL	3-1/2"
4000	4000/3 (4W)	11 RUNS OF (4) - #500 KCMIL/PHASE	(1) #500 KCMIL	3-1/2"
EX	EXISTING TO REMAIN			



1 PARTIAL RISER DIAGRAM (1 OF 2)
NOT TO SCALE

SHEET KEYED NOTES

EP17 PROVIDE GFCI-PROTECTED MAIN BREAKER WITH DIGITAL SUBMETER FOR MAIN SERVICE SWITCHBOARD.

EP18 PROVIDE EMERGENCY POWER SOURCE NON-FUSED DISCONNECTING MEANS AND INTERLOCK WITH CAMLOCK CONNECTIONS FOR TEMPORARY GENERATOR (COMPLIANT WITH NEC ARTICLE 700.3(F)). PROVIDE CONTACT POINT FROM DOCKING STATION TO GENERATOR ANNUNCIATOR PANEL TO INDICATE THAT THE PERMANENT EMERGENCY SOURCE IS DISCONNECTED FROM THE EMERGENCY SYSTEM.

EP19 PROVIDE TYPE 1 TVSS AT INCOMING POWER CONNECTION IN SERVICE SWITCHBOARD.

EP20 PROVIDE ALL BONDING (SUPPLY-SIDE BONDING JUMPERS AND MAIN BONDING JUMPERS) PER NEC 250.28(D)(2).

EP21 PROVIDE MOLDED CASE BREAKER AT THE GENERATOR FOR FIRE PUMP. BREAKER SHALL BE SHORT CIRCUIT PROTECTION ONLY.

EP50 PROVIDE 4-POLE ATS WITH SWITCHED NEUTRAL POLE. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25

SCO # 24-29053-02D

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COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PARTIAL RISER DIAGRAM

SHEET NUMBER
E701

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THREE PHASE DRY TYPE TRANSFOMER SCHEDULE

GENERAL NOTES:
A. UTILIZE PRIMARY AND SECONDARY FEEDER SIZES BELOW UNLESS OTHERWISE NOTED ON RISER DIAGRAM.
B. CONFIRM / COORDINATE TRANSFORMER AND TERMINAL BREAKERS' LUG SIZES WITH CONDUCTOR SIZES INDICATED.
C. COMPLY WITH NEC 240.87 FOR BREAKERS 1200A AND LARGER.
D. TRANSFORMER SECONDARY CONDUCTORS ARE ADJUSTED TO REFLECT THE NEUTRAL CONDUCTOR AS A CURRENT-CARRYING CONDUCTOR.

NOTES:
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4. BONDING CONDUCTOR FROM TRANSFORMER TO SECONDARY OVERCURRENT DEVICE SIZED AS A SEPARATELY DERIVED SYSTEM SUPPLY SIDE BONDING JUMPER PER NEC TABLE 250.66.

RATED KVA	PRIMARY - 480 DELTA			SECONDARY - 208Y/120V			
	TERMINAL BREAKER (NOTE 2)	COPPER CONDUCTOR SIZE (NOTE 3)	CONDUIT SIZE	COPPER CONDUCTOR SIZE (NOTE 4)	CONDUIT SIZE	GROUNDING ELECTRODE CONDUCTOR SIZE (NOTE 1)	TERMINAL BREAKER (NOTE 2)
9	20A/3P	3#12, #12G	3/4"	4#8, #8G	1"	#8	35A/3P
15	30A/3P	3#10, #10G	3/4"	4#6, #8G	1"	#8	60A/3P
30	50A/3P	3#8, #10G	3/4"	4#2, #8G	1 1/2"	#8	100A/3P
45	80A/3P	3#4, #8G	1"	4#2/0, #4G	2"	#4	175A/3P
75	150A/3P	3#1/0, #6G	1 1/2"	4 - 300KCMIL, #2G	2 1/2"	#2	250A/3P
112.5	250A/3P	3 - 250 KCMIL, #4G	2 1/2"	4#4/0, #2/0G (2 SETS)	2 1/2"	#2/0	400A/3P
150	300A/3P	3 - 300 KCMIL, #4G	2 1/2"	4 - 400 KCMIL, #2/0G (2 SETS)	3"	#2/0	600A/3P
225	400A/3P	3 - 500 KCMIL, #3G	3"	4 - 350 KCMIL, #2/0G (3 SETS)	3"	#2/0	800A/3P
300	500A/3P	3#4/0, #2G (2 SETS)	2"	4 - 400 KCMIL, #3/0G (4 SETS)	3"	#3/0	1200A/3P

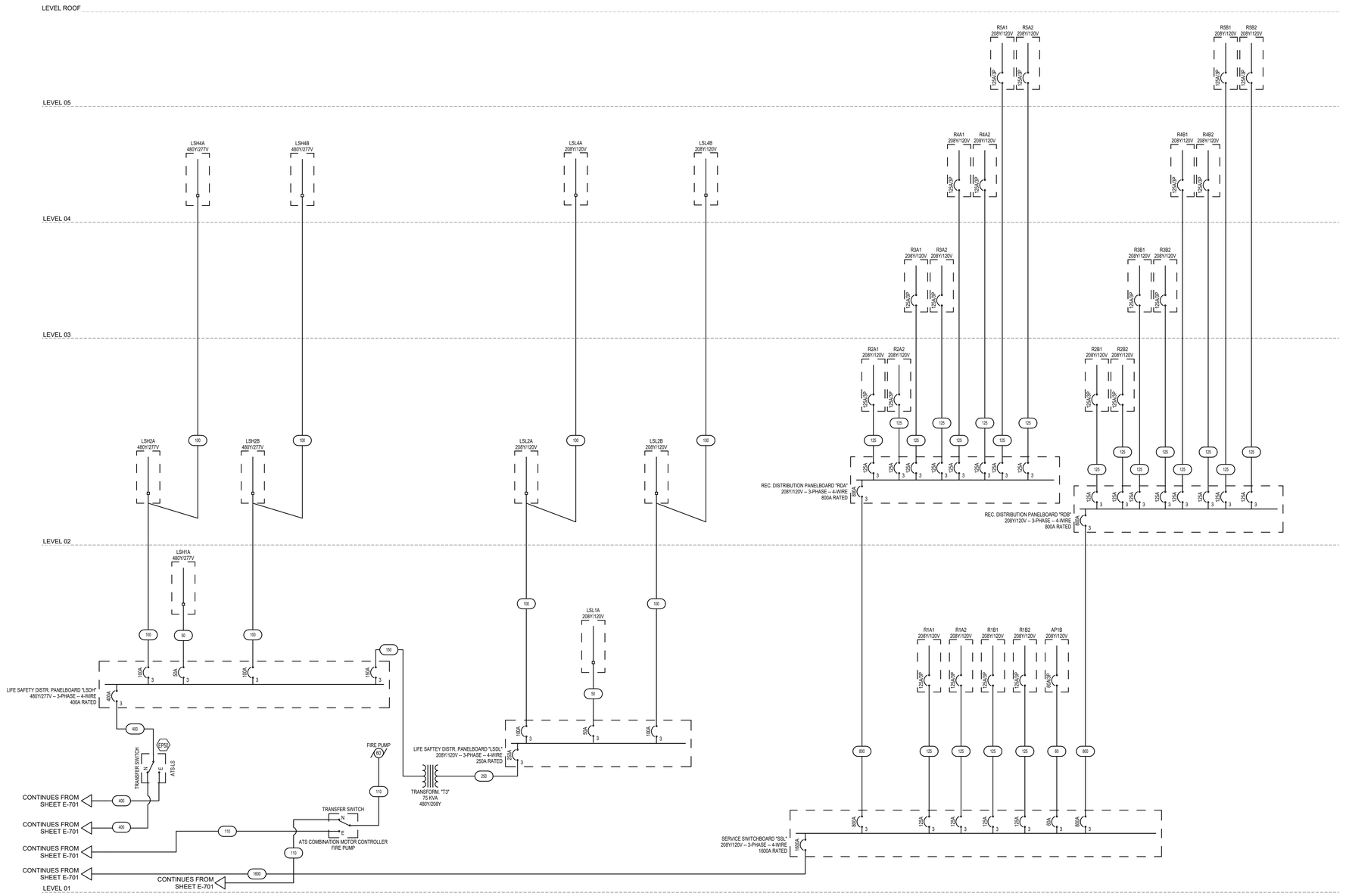
FEEDER SIZING NOTE:

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ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:
• TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL.

TAG	OCPD SETTING	WIRE SIZE	EQUIP. GROUND SIZE	CONDUIT SIZE
-	-	-	-	-
20	20/3 (4W)	(4) #12	(1) #12	3/4"
30	30/3 (4W)	(4) #10	(1) #10	3/4"
50	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
60	60/3 (4W)	(4) #6	(1) #10	1"
80	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
100	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
110	110/3 (4W)	(4) #2	(1) #6	1-1/2"
125	125/3 (4W)	(4) #1	(1) #6	1-1/2"
150	150/3 (4W)	(4) #1/0	(1) #6	2"
175	175/3 (4W)	(4) #2/0	(1) #6	2"
200	200/3 (4W)	(4) #3/0	(1) #6	2"
225	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
250	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
300	300/3 (4W)	(4) #350 KCMIL	(1) #4	3"
350	350/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
400	400/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
500	500/3 (4W)	2 RUNS OF (4) - #250 KCMIL/PHASE	(1) #2	3"
600	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
700	700/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
800	800/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
1000	1000/3 (4W)	3 RUNS OF (4) - #500 KCMIL/PHASE	(1) #2/0	3-1/2"
1200	1200/3 (4W)	4 RUNS OF (4) - #350 KCMIL/PHASE	(1) #3/0	3-1/2"
1600	1600/3 (4W)	5 RUNS OF (4) - #500 KCMIL/PHASE	(1) #4/0	3-1/2"
2000	2000/3 (4W)	6 RUNS OF (4) - #500 KCMIL/PHASE	(1) #250 KCMIL	3-1/2"
3000	3000/3 (4W)	8 RUNS OF (4) - #500 KCMIL/PHASE	(1) #400 KCMIL	3-1/2"
4000	4000/3 (4W)	11 RUNS OF (4) - #500 KCMIL/PHASE	(1) #500 KCMIL	3-1/2"
EX	EXISTING TO REMAIN			



2 PARTIAL RISER DIAGRAM (2 OF 2)
NOT TO SCALE

SHEET KEYED NOTES

EP50 PROVIDE 4-POLE ATS WITH SWITCHED NEUTRAL POLE. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E ROBERT

RUNCW25

SCO # 24-29053-02D

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REVISIONS

NO.	REASON	DATE

PROJECT TEAM
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JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

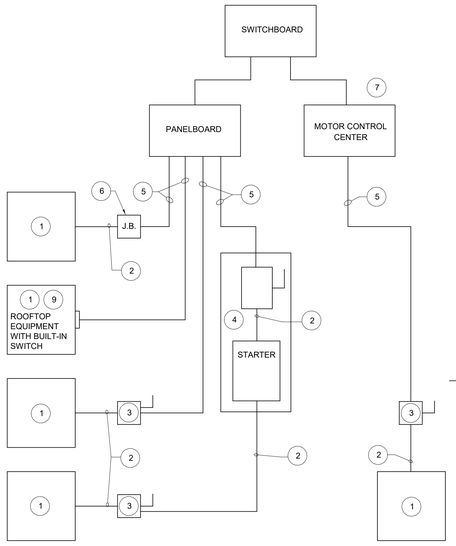
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL PARTIAL RISER DIAGRAM

SHEET NUMBER
E702

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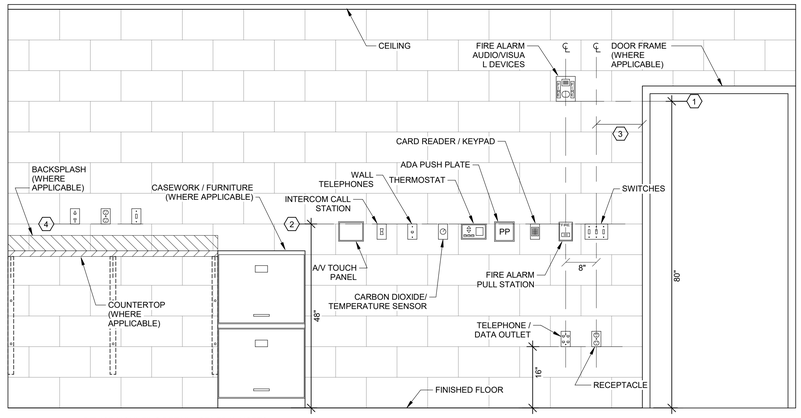
NOTE: THIS DIAGRAM IS INTENDED TO REPRESENT THE DIVISION OF WORK BETWEEN DIVISION 26 AND DIVISIONS 21, 22 AND 23, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 260120.

ELECTRICAL NOTES AND LEGEND:

1. HVAC, FIRE PROTECTION ("FP") OR PLUMBING EQUIPMENT, AS APPLICABLE.
2. CONDUIT & WIRING BY HVAC, FP OR PLUMBING CONTRACTOR.
3. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC IT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
5. FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
6. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED. A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY HVAC, FP OR PLUMBING CONTRACTOR, AS APPLICABLE.
7. PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8. IN ALL CASES THE CONTRACTOR PROVIDING THE EQUIPMENT SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
9. IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT-IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

FINAL CONNECTION TO DIVISION 21, 22 OR 23 EQUIPMENT, AS APPLICABLE, SHALL BE PROVIDED BY THE CONTRACTOR FURNISHING THE EQUIPMENT.

1 ELECTRICAL EQUIPMENT CONNECTION DIAGRAM
NOT TO SCALE



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).

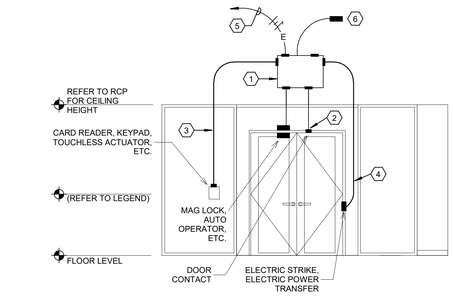
B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).

C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES: (⬡)

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

2 TYPICAL WALL DEVICE MOUNTING DETAIL
NOT TO SCALE



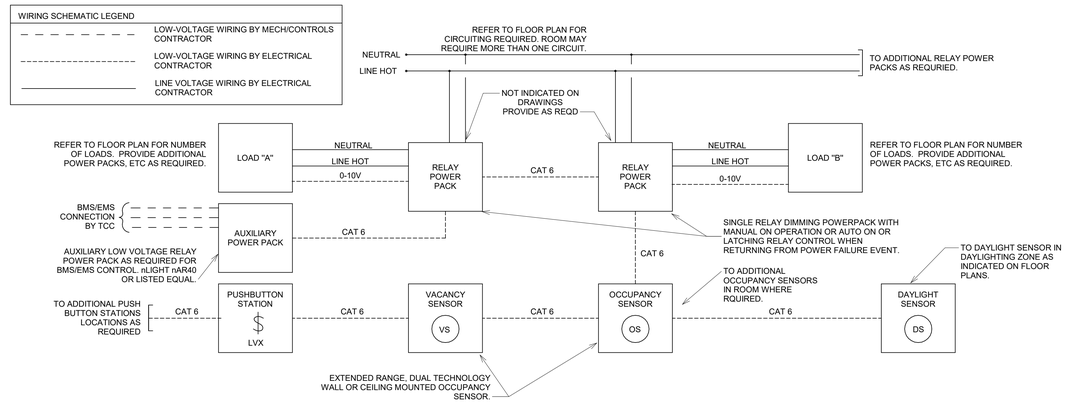
TAGGED NOTES: (⬡)

1. DOOR JUNCTION PANEL ABOVE DOOR PROVIDED AND INSTALLED BY THE ACCESS CONTROL VENDOR/CONTRACTOR. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR ALL LOCATIONS.
2. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR DOOR POSITION CONTACT SWITCHES, AUTO OPERATORS, MAGNETIC LOCKS, ETC. PROVIDE ADDITIONAL CONDUITS AND LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
3. PROVIDE CONDUIT STUB-OUT FROM DOOR OPERATOR DEVICE 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR CARD READERS, TOUCHLESS ACTUATORS, KEYPADS, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
4. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR FOR ELECTRIC POWER TRANSFER, ELECTRIC STRIKE, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
5. ROUTE 120V EMERGENCY LIFE-SAFETY POWER TO ALL DOOR POWER SUPPLIES, AUTO DOOR OPERATORS, ETC. AS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
6. PROVIDE BACKBOX AND CONDUIT CONNECTION FROM INFANT ABDUCTION SYSTEM TO 6" ABOVE CEILING AT DOOR LOCATION INDICATED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.

GENERAL NOTES:

A. PROVIDE ALL NECESSARY BACKBOXES, CONDUITS AND ROUGH-INS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR RISER REQUIREMENTS PER DOOR AND FOR EQUIPMENT ITEMS AND CONNECTIONS.
B. REFER TO DOOR HARDWARE SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL CONDUITS AND FINAL TERMINATIONS OF PATHWAYS AT ALL DOOR FRAMES, WALLS, BACKBOXES, ETC. AS REQUIRED FOR WIRING PATHWAYS.
C. PROVIDE 3/4" CONDUIT MINIMUM FOR ALL ACCESS CONTROL ROUGH-IN AND STUB-OUTS.

3 TYPICAL DOOR HARDWARE ROUGH-IN ELEVATION
NOT TO SCALE



OCCUPANCY/VACANCY/DAYLIGHT SENSOR GENERAL NOTES :

A. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF OCCUPANCY SENSOR PRIOR TO ROUGH-IN. THIS DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.

B. ALL POWER PACKS TO BE LOCATED IN CONCEALED LOCATIONS ABOVE ACCESSIBLE CEILINGS.

C. ALL UNITS TO BE DUAL TECHNOLOGY SENSORS WITH POWER PACKS.

D. PROVIDE J-HOOKS ON 4' CENTERS ABOVE CEILING FOR ALL CONTROL CABLING INDICATED BETWEEN RELAYS.

E. CONTRACTOR SHALL PROVIDE AN EXTRA 10' OF CONTROL WIRING COILED UP ABOVE CEILING AT OCCUPANCY SENSOR.

F. WHERE MULTIPLE CIRCUITS SERVE ONE AREA, CONTRACTOR SHALL PROVIDE ADDITIONAL RELAY PACKS AS REQUIRED TO CONTROL ALL CIRCUITS IN ROOM TOGETHER. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR WIRING REQUIREMENTS.

G. WHERE MULTIPLE SENSORS AND MULTIPLE POWER PACKS ARE REQUIRED IN ONE ROOM, CONTRACTOR SHALL CONNECT SENSORS AND POWER PACKS SUCH THAT MOTION DETECTION BY ANY SENSOR IN THE ROOM SHALL ALLOW ALL CIRCUITS IN THE ROOM TO OPERATE. PROVIDE ALL ACCESSORIES AND WIRE DEVICES PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AS DESCRIBED.

H. SYSTEM SHALL BE SENSOR SWITCH nLIGHT OR WATTSTOPPER DLM EQUAL. SYSTEM SHALL BE PROVIDED, WIRED AND CONTROLLED AS A COMPLETE AND OPERABLE SYSTEM.

I. OCC SENSORS SHALL BE DUAL TECHNOLOGY (PIR AND ULTRASONIC) CEILING OR WALL TYPE. WHERE INDICATED AS WALL TYPE, PROVIDE WITH WITH RECESS BACKBOX, STUB-OUT AND GROMMETED COVERPLATE FOR CABLING. PROVIDE WITH ADDITIONAL EMS RELAY FOR BUILDING MANAGEMENT.

J. DAYLIGHT SENSOR OPERATION: DEVICE SHALL BE SET TO MAINTAIN 50FC. LOW DIMMING RANGE SHALL BE SET LOWER THAN 30% OF FIXTURES OUTPUT LEVEL. TRANSITION OFF TIME SHALL BE SET AT 10 MINUTES. TRANSITION ON TIME SHALL BE 45 SEC. SYSTEM SHALL BE "BURNT" IN FOR 100 HOURS. SYSTEM SHALL BE CONFIGURED AND TESTED PRIOR TO END OF PROJECT.

4 OCCUPANCY/VACANCY/DAYLIGHT SENSOR LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT

RUNCW25

SCO # 24-29053-02D

ISSUE FOR: COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE: 01.15.2026

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NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE: JAMES CURRIE, PE
PROJECT MANAGER: DAN KNOX, PE
DESIGN TEAM: MAXWELL SHUELL

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

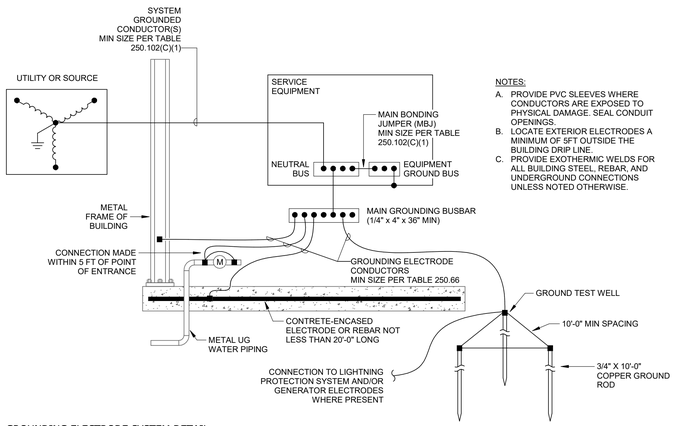
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

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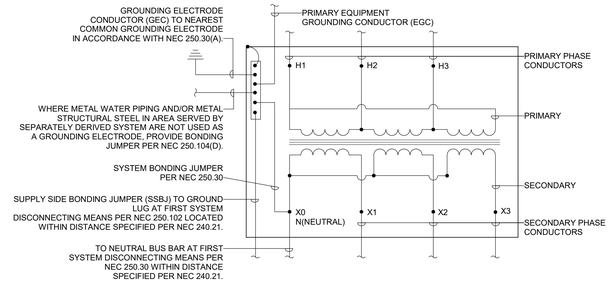
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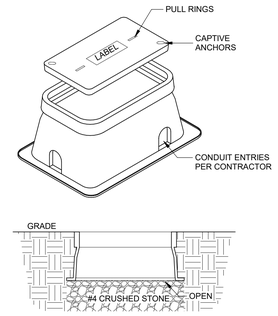


NOTES:
A. PROVIDE PVC SLEEVES WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
B. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.
C. PROVIDE EXOTHERMIC WELDS FOR ALL BUILDING STEEL, REBAR, AND UNDERGROUND CONNECTIONS UNLESS NOTED OTHERWISE.

1 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE

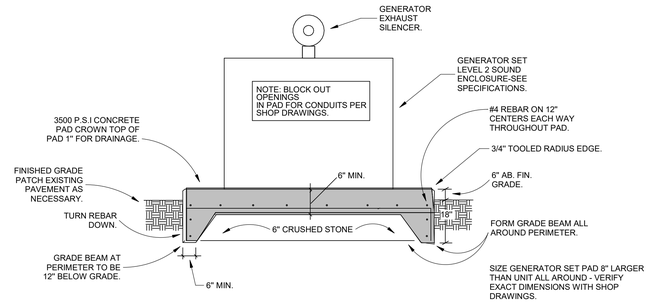


2 TRANSFORMER (DRY-TYPE) GROUNDING DETAIL
NOT TO SCALE

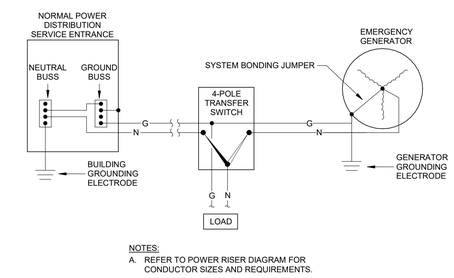


NOTES:
A. BOXES TO BE SIZED PER NEC 314.28 BASED UPON FIELD CONFIGURATION OF CONDUIT ENTRIES. PROVIDE EXTENSIONS WHERE REQUIRED.
B. BOX AND LID TO BE CONSTRUCTED OF POLYMER CONCRETE. LID TIER RATING PER INSTALLED LOCATION.
C. REFER TO SPECIFICATIONS FOR RELATED INFORMATION.

3 PULL BOX DETAIL
NOT TO SCALE

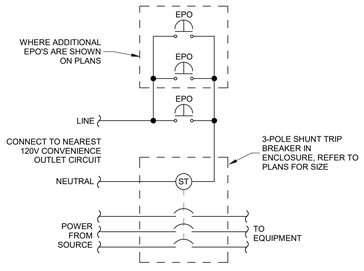


4 GENERATOR CONCRETE PAD
NOT TO SCALE



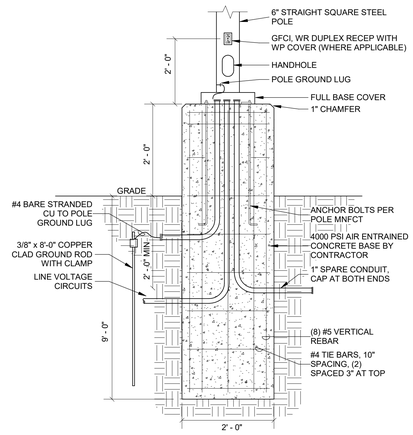
NOTES:
A. REFER TO POWER RISER DIAGRAM FOR CONDUCTOR SIZES AND REQUIREMENTS.

5 GENERATOR GROUNDING DETAIL W/4P ATS
NOT TO SCALE

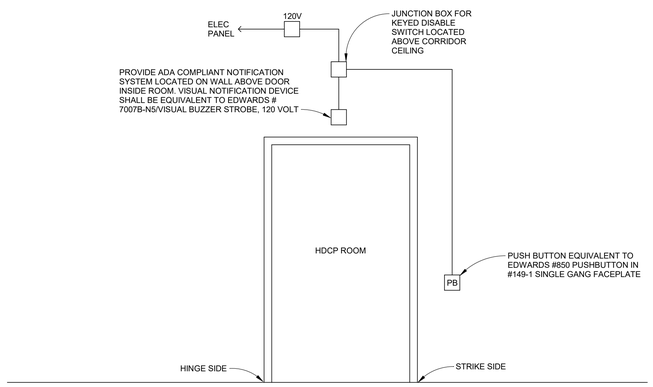


NOTES:
A. EMERGENCY POWER OFF (EPO) TO BE PUSH/PULL LATCHING TYPE.
B. PROVIDE EPO WITH PROTECTIVE COVER.
C. PROVIDE #12 AWG CONTROL WIRING IN SEPARATE RACEWAY TO EPO(S).

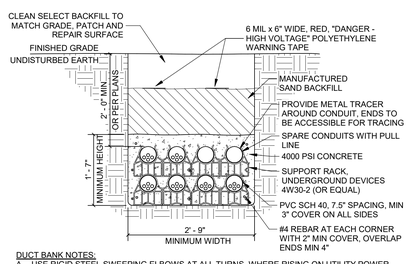
6 SHUNT TRIP EPO WIRING DIAGRAM
NOT TO SCALE



7 POLE BASE DETAIL
NOT TO SCALE



8 VISUAL DOORBELL SYSTEM DETAIL
NOT TO SCALE



DUCT BANK NOTES:
A. USE RIGID STEEL SWEEPING ELBOWS AT ALL TURNS, WHERE RISING ON UTILITY POWER POLE, TURNING UP INTO PAD MOUNTED UTILITY TRANSFORMER AND TURNING UP INTO BUILDING.
B. REFER TO POWER RISER, FLOOR PLANS AND PLAN NOTES FOR EXACT QUANTITY AND SIZE OF CONDUITS.
C. COMMUNICATIONS/FIBER RACEWAYS SHALL BE ROUTED IN DUCT BANK ENCASED CONSTRUCTION, CONSTRUCTED SAME AS SHOWN, EXCEPT FOR NUMBER AND SIZE OF CONDUIT.
D. POUR CONCRETE AGAINST UNDISTURBED EARTH.
E. REFER TO SPECIFICATIONS FOR EXCAVATION, TRENCHING, BACKFILLING AND GRADING REQUIREMENTS. REFER TO EARTHWORK SPECIFICATIONS FOR GENERAL ROCK REMOVAL AND EARTHWORK REQUIREMENTS.

9 DUCT BANK DETAIL - 8 CONDUIT
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT
RUNCW25

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
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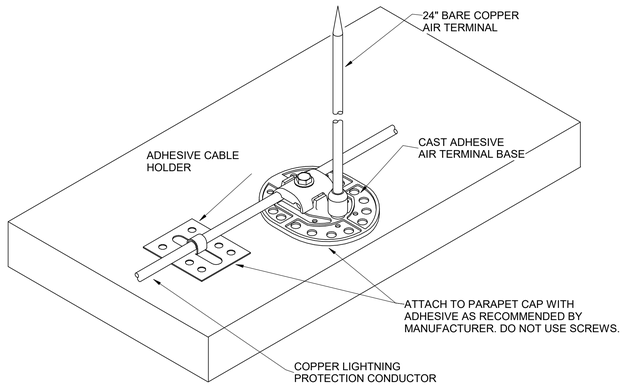
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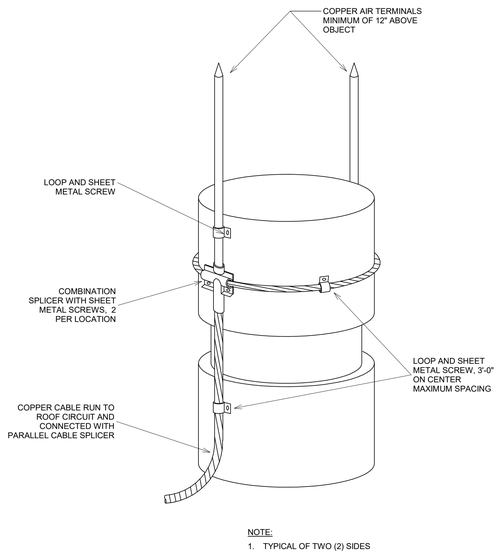
SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E802

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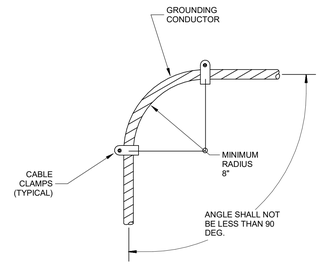


1 ADHESIVE MOUNT AIR TERMINAL DETAIL
NOT TO SCALE

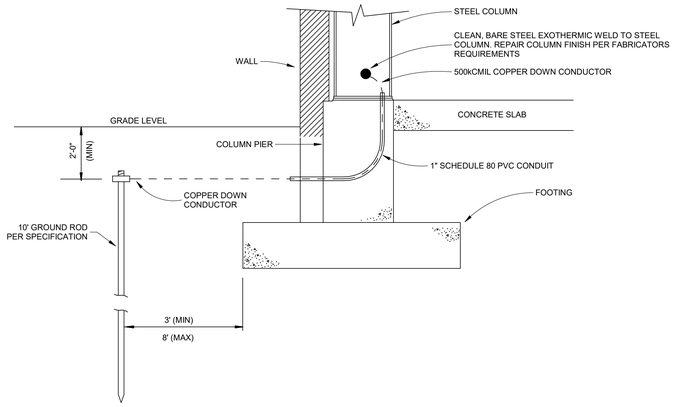


NOTE:
1. TYPICAL OF TWO (2) SIDES

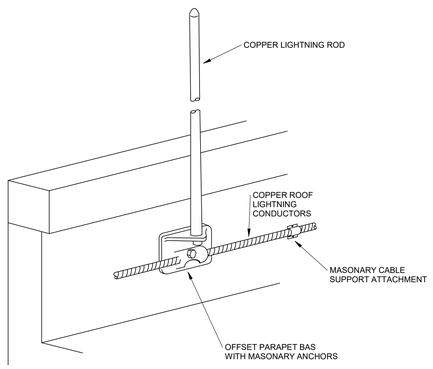
2 AIR TERMINALS FOR EXHAUST FAN
NOT TO SCALE



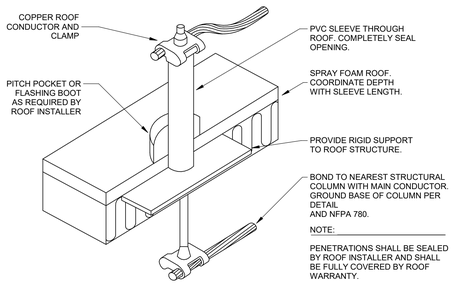
3 CONDUCTOR BEND RADIUS DETAIL
NOT TO SCALE



4 LIGHTNING PROTECTION COLUMN GROUNDING DETAIL
NOT TO SCALE



5 PARAPET WALL AIR TERMINAL
NOT TO SCALE



NOTE:
PENETRATIONS SHALL BE SEALED BY ROOF INSTALLER AND SHALL BE FULLY COVERED BY ROOF WARRANTY.

6 THRU-ROOF CABLE CONNECTOR DETAIL
NOT TO SCALE

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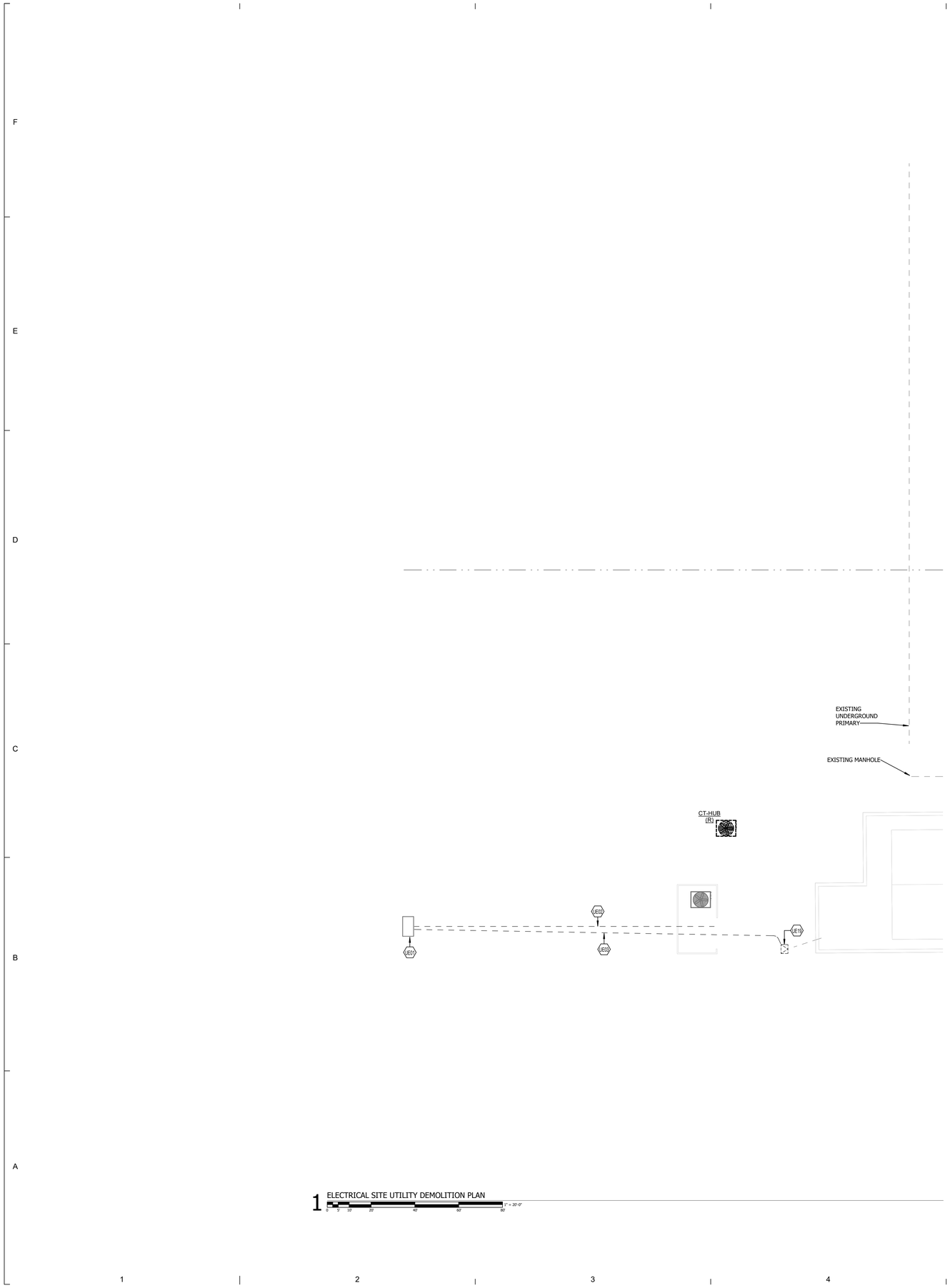
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PROJECT NO.
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SHEET TITLE
ELECTRICAL LIGHTNING PROTECTION DETAILS

SHEET NUMBER
E803

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1 ELECTRICAL SITE UTILITY DEMOLITION PLAN

1" = 20'-0"

SHEET KEYED NOTES

UE01	EXISTING MEDIUM VOLTAGE SWITCH TO REMAIN.
UE02	DEMOLISH ABANDONED FEEDER BACK TO SOURCE.
UE03	DEMOLISH UNDERGROUND HUB BUILDING SERVICE PRIMARY FEEDER BACK TO MEDIUM VOLTAGE SWITCH.
UE19	OWNER TO REMOVE EXISTING PAD-MOUNTED TRANSFORMER SERVING HUB BUILDING. CONTRACTOR SHALL COORDINATE TIMING OF WORK BETWEEN DUKE ENERGY AND OWNER TO MINIMZE DOWNTIME.

SITE - GENERAL NOTES

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.
D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.
G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILITY STANDARDS SHALL TAKE PRECEDENCE.
H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.
J. CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.
K. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.
L. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.
M. COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE.
N. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT, AND THE BUILDING OPERATORS AT LEASTE ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
O. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.
P. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
Q. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.
R. CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY COST, UTILITY CONNECTION COSTS, METER FEES, EXTENSION AND DEVELOPMENT CHARGES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
S. THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS REQUIRED OR SHOWN ON DRAWINGS.
T. REATTACH ALL TAPS AND TRANSFORMERS AS TO MAINTAIN EXISTING PHASE CONNECTIONS.
U. CONTRACTOR RESPONSIBLE FOR MAINTAINING DOWNSTREAM SERVICE FROM REMOVED EQUIPMENT ON SITE. INCLUDING BUT NOT LIMITED TO SITE LIGHTING, TRANSFORMERS, ETC.
V. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
W. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES/ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON).
X. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
Y. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

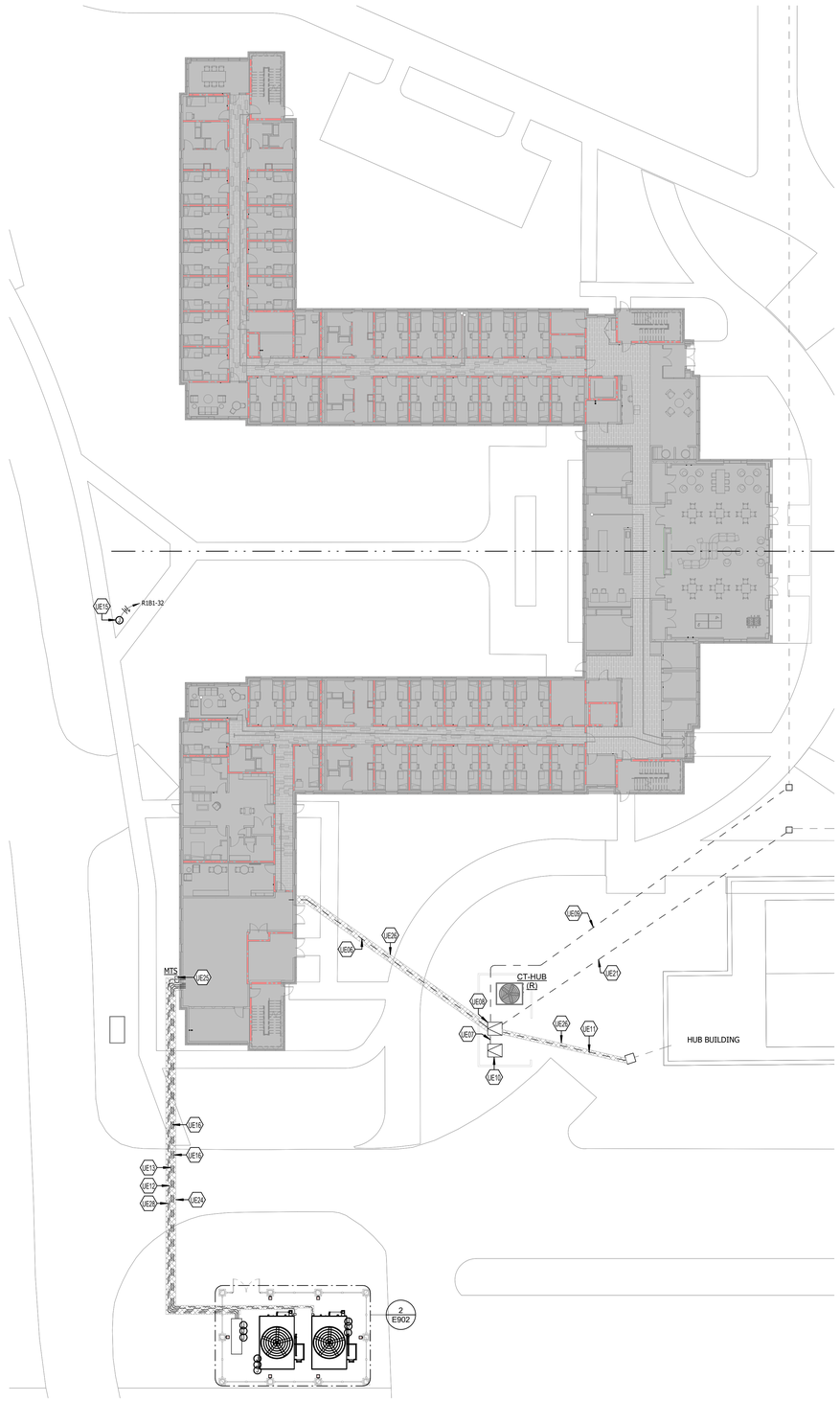
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL SITE UTILITY DEMOLITION PLAN

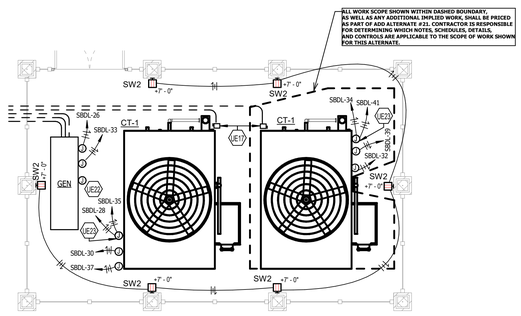
SHEET NUMBER
E901

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1 ELECTRICAL SITE UTILITY NEW WORK PLAN

0' 5' 10' 20' 40' 60' 80'
1" = 20'-0"



2 ELECTRICAL SITE UTILITY NEW WORK ENLARGED PLAN - GENERATOR & COOLING TOWER YARD

1 E902

0 1' 2' 4' 8' 16' 24' 32'
1/8" = 1'-0"

SHEET KEYED NOTES

UE06	PROVIDE SERVICE SECONDARY FEEDER FROM NEW TRANSFORMER LOCATION TO SERVICE ENTRANCE SWITCHBOARD WITHIN DUCTBANK. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZING.
UE07	DUKE ENERGY TO EXTEND UNDERGROUND PRIMARY BETWEEN NEW RESIDENCE HALL TRANSFORMER AND NEW HUB BUILDING TRANSFORMER.
UE08	DUKE ENERGY TO PROVIDE NEW PAD-MOUNTED TRANSFORMER FOR NEW RESIDENCE HALL. CONTRACTOR SHALL PROVIDE CONCRETE PAD AND CONDUIT TRANSITIONS PER DUKE ENERGY'S GUIDELINES.
UE09	DUKE ENERGY TO PROVIDE NEW UNDERGROUND SERVICE PRIMARY FEEDER FROM JUNCTION LOCATION TO NEW PAD-MOUNTED TRANSFORMER LOCATION.
UE10	DUKE ENERGY TO PROVIDE NEW PAD-MOUNTED TRANSFORMER TO REPLACE EXISTING HUB BUILDING TRANSFORMER. CONTRACTOR SHALL PROVIDE CONCRETE PAD AND CONDUIT TRANSITIONS PER DUKE ENERGY'S GUIDELINES.
UE11	PROVIDE UNDERGROUND SECONDARY CONDUITS/CONDUCTORS FOR HUB BUILDING SERVICE FROM NEW TRANSFORMER LOCATION TO NEW JUNCTION/SPLICE BOX LOCATION. MATCH EXISTING CONDUIT/CONDUCTOR SIZING AND BURIAL DEPTH.
UE12	PROVIDE LIFE SAFETY BRANCH FEEDER FROM GENERATOR TO BUILDING WITHIN DUCTBANK. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZING.
UE13	PROVIDE STANDBY BRANCH FEEDER FROM GENERATOR TO BUILDING WITHIN DUCTBANK. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZING.
UE15	PROVIDE 120V CONNECTION FOR BLUELIGHT PEDESTAL.
UE16	PROVIDE NEW COOLING TOWER BRANCH CIRCUIT FROM SERVICE SWITCHBOARD "SSH" TO MECH YARD WITHIN DUCTBANK. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZING.
UE17	PROVIDE 600V, 100A/3P, NEMA 3R, FUSED DISCONNECT SWITCH FOR NEW COOLING TOWER. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
UE21	DUKE ENERGY TO PROVIDE UNDERGROUND PRIMARY RETURN LOOP FROM PAD-MOUNTED TRANSFORMER LOCATION TO SPLICE BOX LOCATION.
UE22	PROVIDE (2) 1" CONDUITS FROM GENERATOR TO BAS PANEL LOCATION IN MAIN MECHANICAL ROOM FOR CONTROLS WIRING.
UE23	PROVIDE (2) 120V CONNECTIONS FOR HEAT TRACE AT CHILLER. PROVIDE CONNECTION TO/FROM HEAT TRACE CONTROL PANEL IN MAIN MECHANICAL ROOM AS REQUIRED.
UE24	PROVIDE CONCRETE ENCASED DUCT BANK FOR LIFE SAFETY & OPTIONAL STANDBY BRANCH FEEDERS FROM GENERATOR AND COOLING TOWER BRANCH CIRCUITS. FIELD COORDINATE EXACT ROUTING. INSTALL SUCH THAT TOP OF CONCRETE IS 24" BELOW GRADE MINIMUM. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZINGS. REFER TO DUCT BANK DETAIL FOR MORE INFORMATION.
UE25	PROVIDE MANUAL TRANSFER SWITCH/CAMLOCK CONNECTION BOX FOR TEMPORARY ROLL-UP GENERATOR SERVICE AT THIS LOCATION. REFER TO RISER DIAGRAM FOR MORE INFORMATION. COORDINATE FINAL LOCATION SUCH THAT ENCLOSURE IS CENTERED BETWEEN EDGE OF WINDOW FRAME AND EDGE OF BRICK QUOINS.
UE26	PROVIDE CONCRETE ENCASED DUCT BANK FOR SERVICE SECONDARY FROM NEW PAD-MOUNTED TRANSFORMER LOCATION TO BUILDING. FIELD COORDINATE EXACT ROUTING. INSTALL SUCH THAT TOP OF CONCRETE IS 24" BELOW GRADE MINIMUM. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZINGS. REFER TO DUCT BANK DETAIL FOR MORE INFORMATION.
UE28	PROVIDE FIRE PUMP FEEDER FROM GENERATOR TO BUILDING WITHIN DUCTBANK. REFER TO ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR SIZING.

SITE - GENERAL NOTES

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.
D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.
G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE.
H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT

RUNCW25

SCO # 24-29053-02D

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PROJECT TEAM
PRINCIPAL IN CHARGE
JAMES CURRIE, PE
PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL SITE UTILITY NEW WORK PLAN

SHEET NUMBER
E902

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DESCRIPTION	MOUNTING HEIGHT	SYMBOL
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM
LOCAL OPERATOR CONSOLE	54"	LOC
SMOKE EVACUATION CONTROL PANEL	54"	SECP
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"	NAC
TRANSPONDER CABINET	46"	TRAN
GRAPHICS DISPLAY TERMINAL		GDT
FIRE ALARM CONTROL EXTENDER		EXT
POST INDICATOR VALVE		PIV
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	46" TO LEVER	FK
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	F
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	F
SMOKE DETECTOR / SOUNDER BASE	CLG	
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE BR
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABOVE CEILING	CD
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	FCM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DHC
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RS
FIREMAN'S PHONE JACK	4'-6"	FPJ
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
MONITOR MODULE		M
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		VR
INDICATES CHIME AUDIBLE NOTIFICATION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL
WEATHERPROOF DEVICE - RATED FOR EXTERIOR USE		WP

Sheet List - Fire Alarm

SHEET #	SHEET NAME
FA001	FIRE ALARM LEGEND
FA101A	ELECTRICAL FIRE ALARM PLAN - LEVEL 01 - AREA A
FA101B	ELECTRICAL FIRE ALARM PLAN - LEVEL 01 - AREA B
FA102A	ELECTRICAL FIRE ALARM PLAN - LEVEL 02 - AREA A
FA102B	ELECTRICAL FIRE ALARM PLAN - LEVEL 02 - AREA B
FA103A	ELECTRICAL FIRE ALARM PLAN - LEVEL 03 - AREA A
FA103B	ELECTRICAL FIRE ALARM PLAN - LEVEL 03 - AREA B
FA104A	ELECTRICAL FIRE ALARM PLAN - LEVEL 04 - AREA A
FA104B	ELECTRICAL FIRE ALARM PLAN - LEVEL 04 - AREA B
FA105A	ELECTRICAL FIRE ALARM PLAN - LEVEL 05 - AREA A
FA105B	ELECTRICAL FIRE ALARM PLAN - LEVEL 05 - AREA B
FA106A	ELECTRICAL FIRE ALARM PLAN - ROOF - AREA A
FA106B	ELECTRICAL FIRE ALARM PLAN - ROOF - AREA B
FA701	FIRE ALARM RISER DIAGRAM
FA801	FIRE ALARM DETAILS

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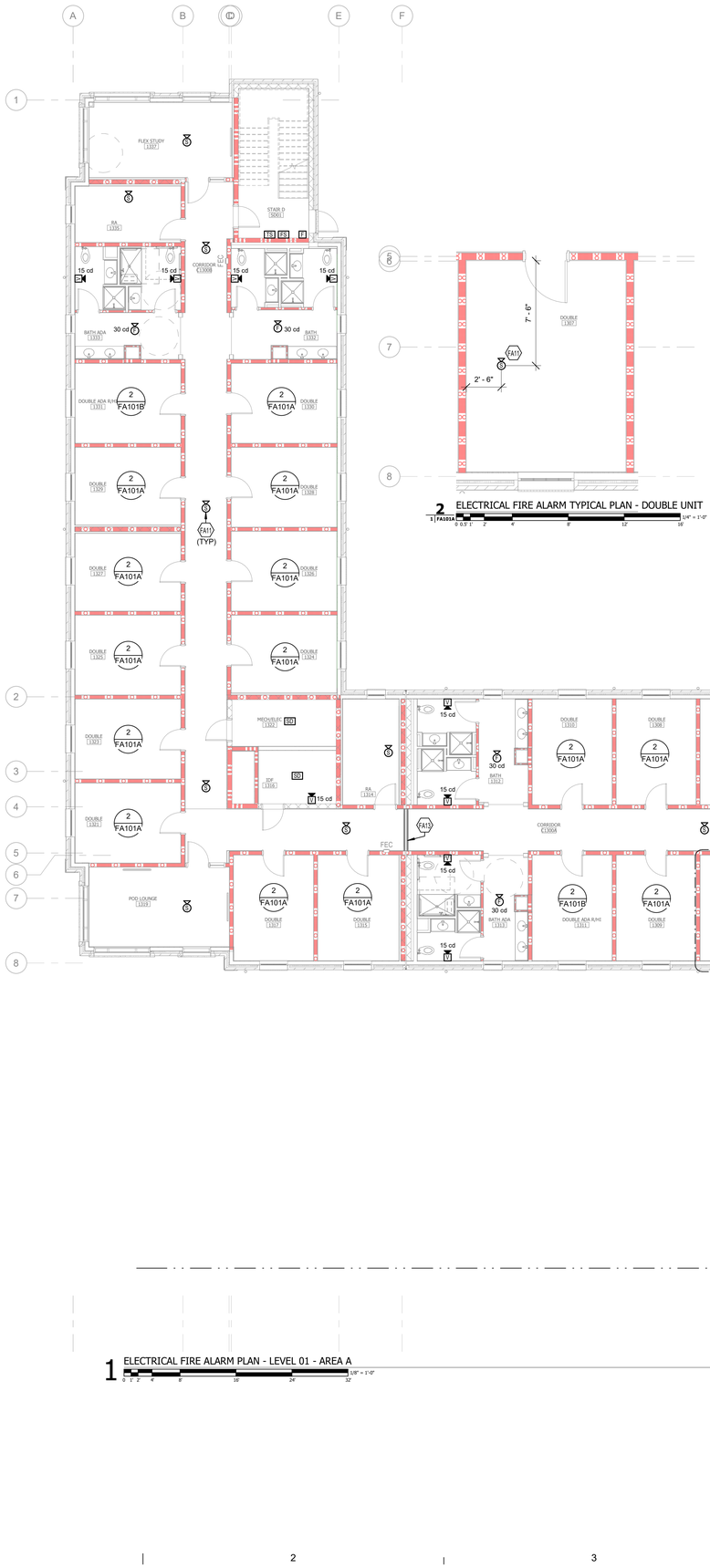
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE ALARM LEGEND

SHEET NUMBER
FA001

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FLEX STUDY 1307
STAIR D 1300
RA 1335
CORRIDOR 1330B
15 cd
30 cd
BATH ADA 1331
BATH 1332
DOUBLE ADA R/H 1331
2 FA101B
DOUBLE 1330
2 FA101A
DOUBLE 1328
DOUBLE 1327
DOUBLE 1326
DOUBLE 1325
DOUBLE 1324
DOUBLE 1321
DOUBLE 1319
DOUBLE 1317
DOUBLE 1315
DOUBLE ADA R/H 1311
DOUBLE 1309
DOUBLE 1307
DOUBLE 1305
DOUBLE 1303
DOUBLE 1301
FA11 (TYP)
FEC
POD LOUNGE 1329
MECH/ELEC 1322
IDF 1316
BATH ADA 1313
CORRIDOR 1330B
CUSTODIAL 1324A
NOOK 1224
STOR 1224A
STAIR C 1201
VESTIBULE 1202
FRONT DESK 1204A
SECURITY 1203
STOR 1210A
MEN 1210
WOM 1212
REF
LEARNING COMMONS 1210
LG KITCHEN LOUNGE 1307
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SHEET KEYED NOTES

- FA01 PROVIDE FIRE ALARM CONNECTION TO ELEVATOR CONTROLLER.
- FA02 PROVIDE HEAT DETECTOR FOR ACTIVATING ELEVATOR CONTROLLER SHUNT TRIP BREAKER WITHIN 2'-0" OF ELEVATOR SHAFT SPRINKLER HEAD. COORDINATE FINAL LOCATION PRIOR TO INSTALL.
- FA03 PROVIDE MONITOR MODULE IN PIT AND CONNECT TO FIRE ALARM SYSTEM. COORDINATE FINAL LOCATION PRIOR TO INSTALL.
- FA04 PROVIDE TWO WAY COMMUNICATION DEVICE FOR ELEVATOR.
- FA05 PROVIDE FIRE ALARM CONNECTION(S) TO FIRE PUMP AS REQUIRED.
- FA07 COORDINATE FINAL LOCATION OF FACP WITH OWNER PRIOR TO INSTALL.
- FA11 FIELD COORDINATE EXACT LOCATION OF SMOKE DETECTOR/SOUNDER BASE; NO SMOKE DETECTOR SHALL BE INSTALLED WITHIN 3' OF SUPPLY/EXHAUST AIR DIFFUSERS.
- FA12 PROVIDE FIRE ALARM CONNECTION TO ELEVATOR SMOKE CURTAIN SUCH THAT CURTAIN IS AUTOMATICALLY ACTIVATED UPON INITIATION FROM THIS DETECTION DEVICE.
- FA13 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.
- FA14 PROVIDE (1) SAFEAWAKE BED SHAKER SYSTEMS (OR EQUIVALENT) IN THIS ROOM. MOUNT UNIT AT 5' AFF ON WALL NEAR FOOT OF BED AND PLUG IN TO NEAREST RECEPTACLE. REFER TO MANUFACTURER'S INSTALLATION AND OPERATION GUIDE FOR ADDITIONAL INFORMATION.
- FA15 PROVIDE (2) SAFEAWAKE BED SHAKER SYSTEMS (OR EQUIVALENT) IN THIS ROOM. MOUNT UNITS AT 5' AFF ON WALL NEAR FOOT OF BED ON BOTH SIDES OF ROOM AND PLUG IN TO NEAREST RECEPTACLES. REFER TO MANUFACTURER'S INSTALLATION AND OPERATION GUIDE FOR ADDITIONAL INFORMATION.
- FA18 PROVIDE FIRE ALARM CONNECTION TO HOOD ANSUL/FIRE SUPPRESSION SYSTEM.

FIRE ALARM - GENERAL NOTES

- A. THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "FACP" UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE FIRE ALARM SYSTEM.
- B. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS.
- C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
- D. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR COMPLETE INSTALLATION OF A CONNECTION TO EXISTING FIRE PROTECTION SWITCHES.
- E. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
- F. TAP SPEAKERS TO PROVIDE SUFFICIENT AUDIBILITY FOR AREA SERVED.
- G. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.
- H. AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (UON). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- I. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.
- J. RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR AUTHORITY HAVING JURISDICTION.
- K. PROVIDE FIRE ALARM MANUFACTURER WITH LOCATION DESCRIPTIONS FOR ALL FIRE ALARM DEVICES AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR PRE-PROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE DESCRIPTIONS WITH BUILDING OWNER. UTILIZE FINAL ROOM NAMES AND NUMBERS, NOT NAMES AND NUMBERS FROM FLOOR PLANS.
- L. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
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- N. PROVIDE CONNECTIONS TO NEW ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH SUCCESSFUL DOOR HARDWARE MANUFACTURER PRIOR TO CONSTRUCTION.
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- P. PROVIDE APPROVED TESTING AND REQUIRED CERTIFICATION OF SYSTEM COMPONENTS AND PROVE OPERATION OF SYSTEM FOR THE AREA OF WORK WHEN COMPLETE.
- Q. WIRING TO ALL FIRE ALARM DEVICES SHALL BE PER NEC AND MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL WIRING REQUIREMENTS WITH THE OWNER AND FIRE ALARM VENDOR.
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- S. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO EMERGENCY LIFE-SAFETY BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.
- T. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
- U. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
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- W. WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER & ENGINEER AT CLOSE OF PROJECT.
- X. A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

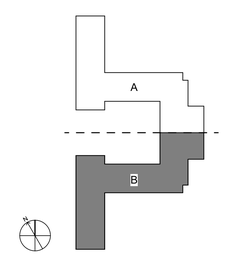
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KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL FIRE ALARM PLAN - LEVEL 01 - AREA B

SHEET NUMBER
FA101B

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1 ELECTRICAL FIRE ALARM PLAN - LEVEL 02 - AREA A

0 1' 2' 4' 8' 16' 24' 32'

3/8" = 1'-0"

SHEET KEYED NOTES

FA11 FIELD COORDINATE EXACT LOCATION OF SMOKE DETECTOR/SOUNDER BASE; NO SMOKE DETECTOR SHALL BE INSTALLED WITHIN 3' OF SUPPLY/EXHAUST AIR DIFFUSERS.

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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

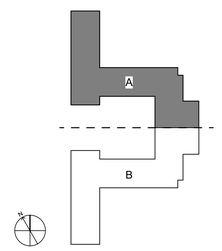
1-HR FIRE BARRIER

FIRE PARTITIONS

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KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT
RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
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REVISIONS

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PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

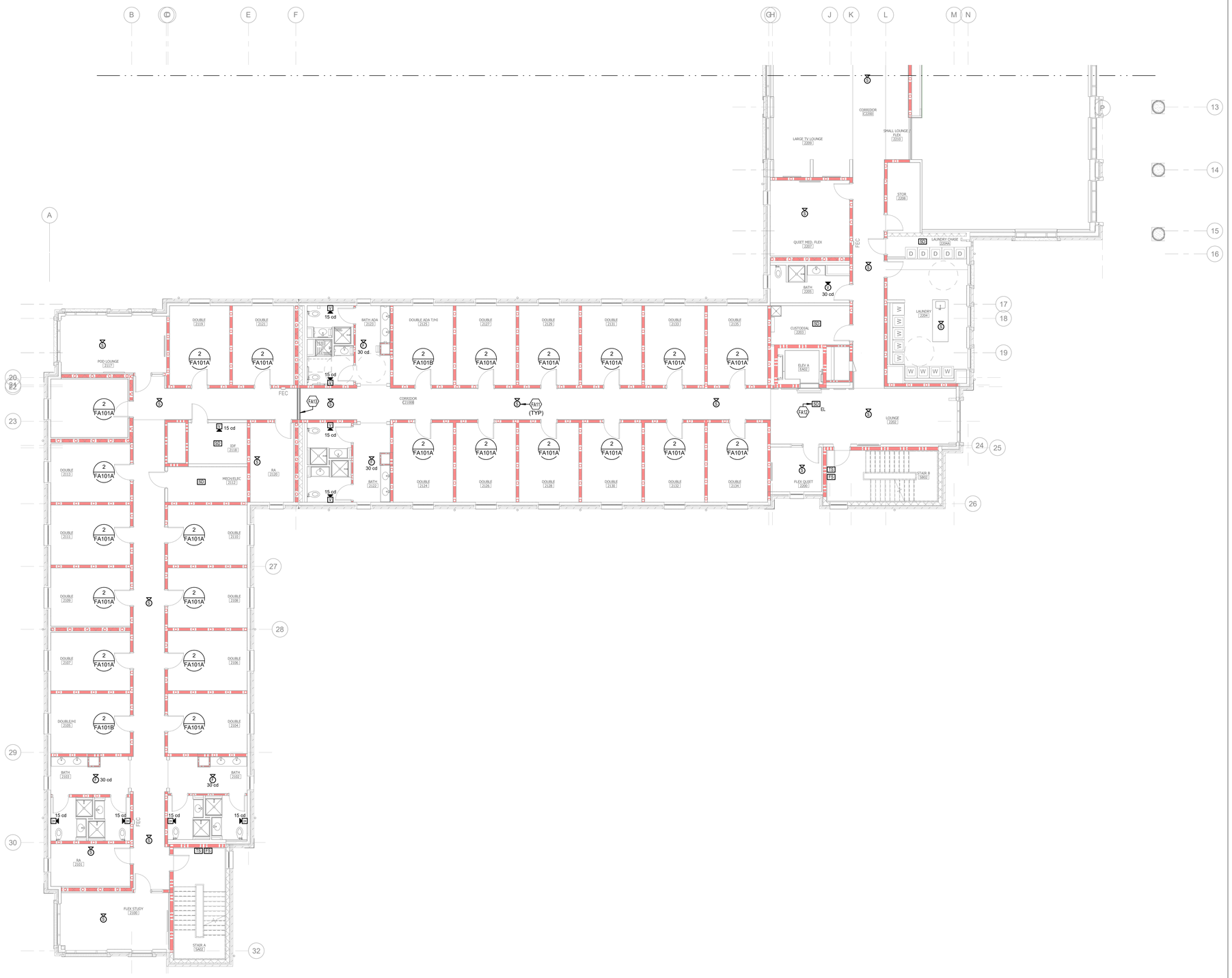
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL FIRE ALARM PLAN - LEVEL 02 - AREA A

SHEET NUMBER
FA102A

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1 ELECTRICAL FIRE ALARM PLAN - LEVEL 02 - AREA B

1/8" = 1'-0"

0 1 2 4 8 16 24 32

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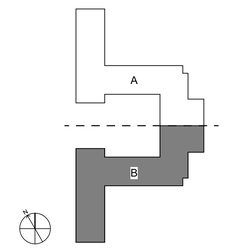
1-HR FIRE BARRIER

FIRE PARTITIONS

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KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL FIRE ALARM PLAN - LEVEL 02 - AREA B

SHEET NUMBER
FA102B

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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1 ELECTRICAL FIRE ALARM PLAN - LEVELS 03-05 - AREA A

0 1' 2' 4' 8' 16' 24' 32'

1/8" = 1'-0"

SHEET KEYED NOTES

FA11 FIELD COORDINATE EXACT LOCATION OF SMOKE DETECTOR/SOUNDER BASE; NO SMOKE DETECTOR SHALL BE INSTALLED WITHIN 3' OF SUPPLY/EXHAUST AIR DIFFUSERS.

FA12 PROVIDE FIRE ALARM CONNECTION TO ELEVATOR SMOKE CURTAIN SUCH THAT CURTAIN IS AUTOMATICALLY ACTIVATED UPON INITIATION FROM THIS DETECTION DEVICE.

FA13 PROVIDE ANY/ALL CONDUITS THAT PASS FROM ONE SIDE OF THIS BOUNDARY TO THE OTHER WITH EXPANSION JOINTS.

FIRE ALARM - GENERAL NOTES

A. THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "FACP" UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE FIRE ALARM SYSTEM.
B. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS.
C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
D. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR COMPLETE INSTALLATION OF A CONNECTION TO EXISTING FIRE PROTECTION SWITCHES.
E. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
F. TAP SPEAKERS TO PROVIDE SUFFICIENT AUDIBILITY FOR AREA SERVED.
G. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.
H. AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (UON). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
I. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.
J. RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR AUTHORITY HAVING JURISDICTION.
K. PROVIDE FIRE ALARM MANUFACTURER WITH LOCATION DESCRIPTIONS FOR ALL FIRE ALARM DEVICES AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR PRE-PROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE DESCRIPTIONS WITH BUILDING OWNER. UTILIZE FINAL ROOM NAMES AND NUMBERS, NOT NAMES AND NUMBERS FROM FLOOR PLANS.
L. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

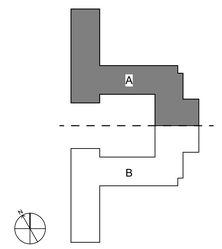
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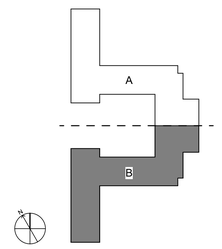
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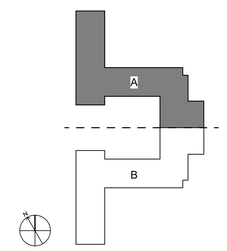
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SHEET NUMBER: FA104A

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1 ELECTRICAL FIRE ALARM PLAN - LEVEL 05 - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

- FA02 PROVIDE HEAT DETECTOR FOR ACTIVATING ELEVATOR CONTROLLER SHUNT TRIP BREAKER WITHIN 2'-0" OF ELEVATOR SHAFT SPRINKLER HEAD. COORDINATE FINAL LOCATION PRIOR TO INSTALL.
- FA11 FIELD COORDINATE EXACT LOCATION OF SMOKE DETECTOR/SOUNDER BASE; NO SMOKE DETECTOR SHALL BE INSTALLED WITHIN 3' OF SUPPLY/EXHAUST AIR DIFFUSERS.
- FA12 PROVIDE FIRE ALARM CONNECTION TO ELEVATOR SMOKE CURTAIN SUCH THAT CURTAIN IS AUTOMATICALLY ACTIVATED UPON INITIATION FROM THIS DETECTION DEVICE.
- FA16 PROVIDE ASPIRATING SMOKE DETECTION SYSTEM AT TOP OF SHAFT WITH SAMPLING PORT ACCESSIBLE OUTSIDE HOISTWAY. ACTIVATION OF THIS SYSTEM SHALL TRIGGER THE FIRE ALARM SYSTEM AND INITIATE A PHASE 1 ELEVATOR RECALL.

FIRE ALARM - GENERAL NOTES

A. THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "FACP" UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE FIRE ALARM SYSTEM.
B. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS.
C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
D. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR COMPLETE INSTALLATION OF A CONNECTION TO EXISTING FIRE PROTECTION SWITCHES.
E. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
F. TAP SPEAKERS TO PROVIDE SUFFICIENT AUDIBILITY FOR AREA SERVED.
G. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.
H. AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (UON). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
I. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.
J. RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR AUTHORITY HAVING JURISDICTION.
K. PROVIDE FIRE ALARM MANUFACTURER WITH LOCATION DESCRIPTIONS FOR ALL FIRE ALARM DEVICES AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR PRE-PROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE DESCRIPTIONS WITH BUILDING OWNER. UTILIZE FINAL ROOM NAMES AND NUMBERS, NOT NAMES AND NUMBERS FROM FLOOR PLANS.
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S. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO EMERGENCY LIFE-SAFETY BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.
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RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

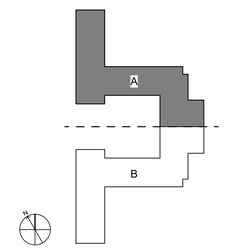
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBERT

RUNCW25

SCO # 24-29053-02D

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ISSUE DATE
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REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL FIRE ALARM PLAN - LEVEL 05 - AREA A

SHEET NUMBER
FA105A

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1 ELECTRICAL FIRE ALARM PLAN - LEVEL 05 - AREA B

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

FA02 PROVIDE HEAT DETECTOR FOR ACTIVATING ELEVATOR CONTROLLER SHUNT TRIP BREAKER WITHIN 2'-0" OF ELEVATOR SHAFT SPRINKLER HEAD. COORDINATE FINAL LOCATION PRIOR TO INSTALL.

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2-HR FIRE BARRIER

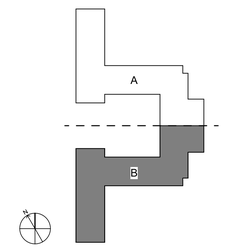
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KEY PLAN



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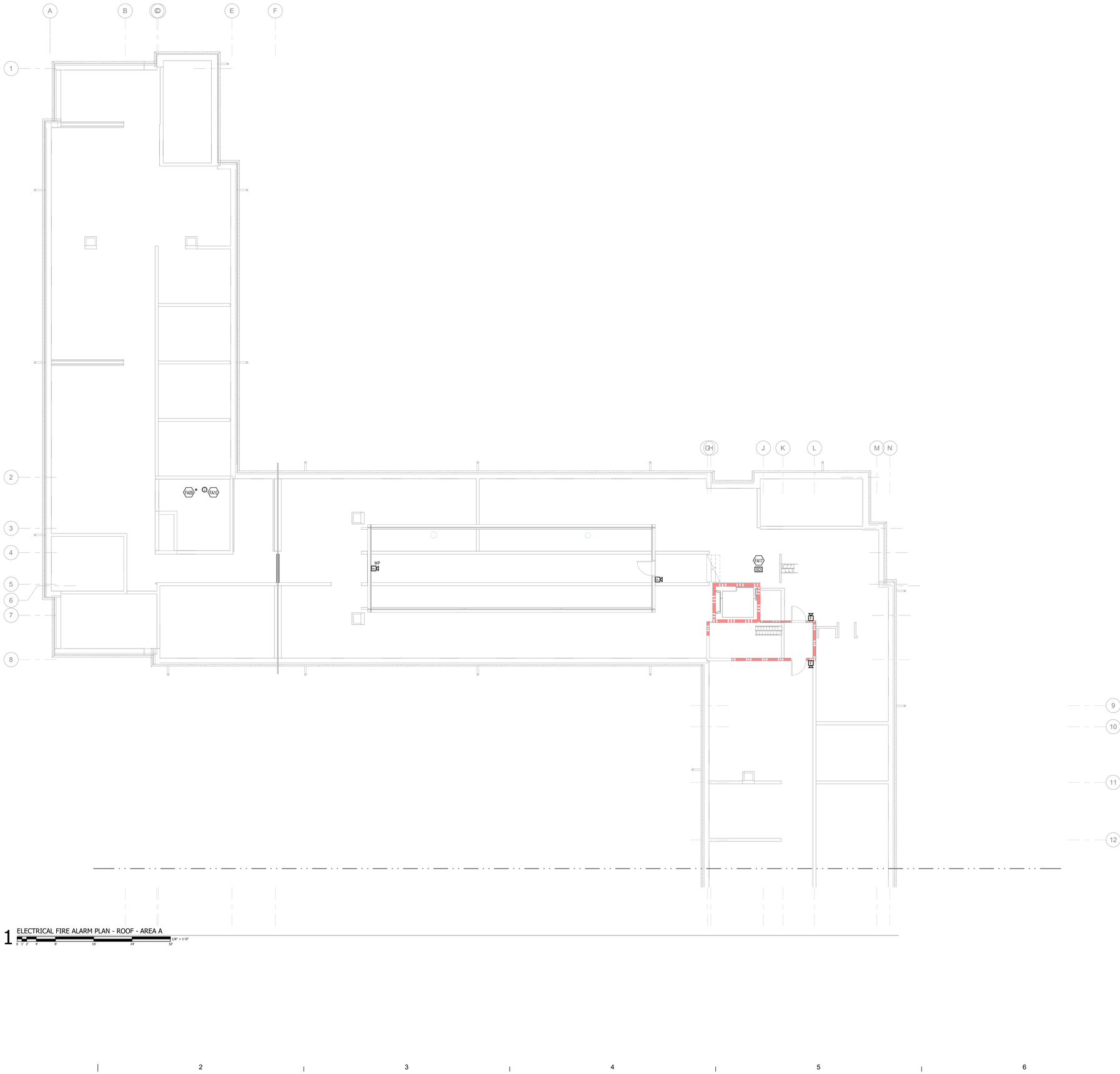
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
ELECTRICAL FIRE ALARM PLAN - LEVEL 05 - AREA B

SHEET NUMBER
FA105B

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1 ELECTRICAL FIRE ALARM PLAN - ROOF - AREA A

1/8" = 1'-0"

SHEET KEYED NOTES

FA09 PROVIDE 2" RIGID CONDUIT SLEEVE WITH WEATHERHEAD TO IDF 5613 FOR EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM (ERRCS) DONOR ANTENNA.

FA10 PROVIDE DONOR ANTENNA AND MAST PERMANENTLY AFFIXED TO BUILDING STRUCTURE. FINAL LOCATION TO BE DETERMINED BY RF TESTING RESULTS. REFER TO SPECIFICATION 27 64 10 FOR SYSTEM PERFORMANCE CRITERIA.

FA17 PROVIDE SMOKE DETECTOR IN ATTIC/WALKWAY SPACE. FIELD COORDINATE EXACT LOCATION.

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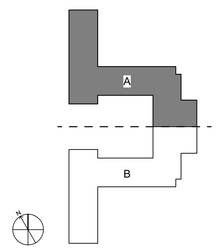
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.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25

SCO # 24-29053-02D

ISSUE FOR: COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE: 01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE: JAMES CURRIE, PE

PROJECT MANAGER: DAN KNOX, PE

DESIGN TEAM: MAXWELL SHUELL

PROJECT NAME: UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

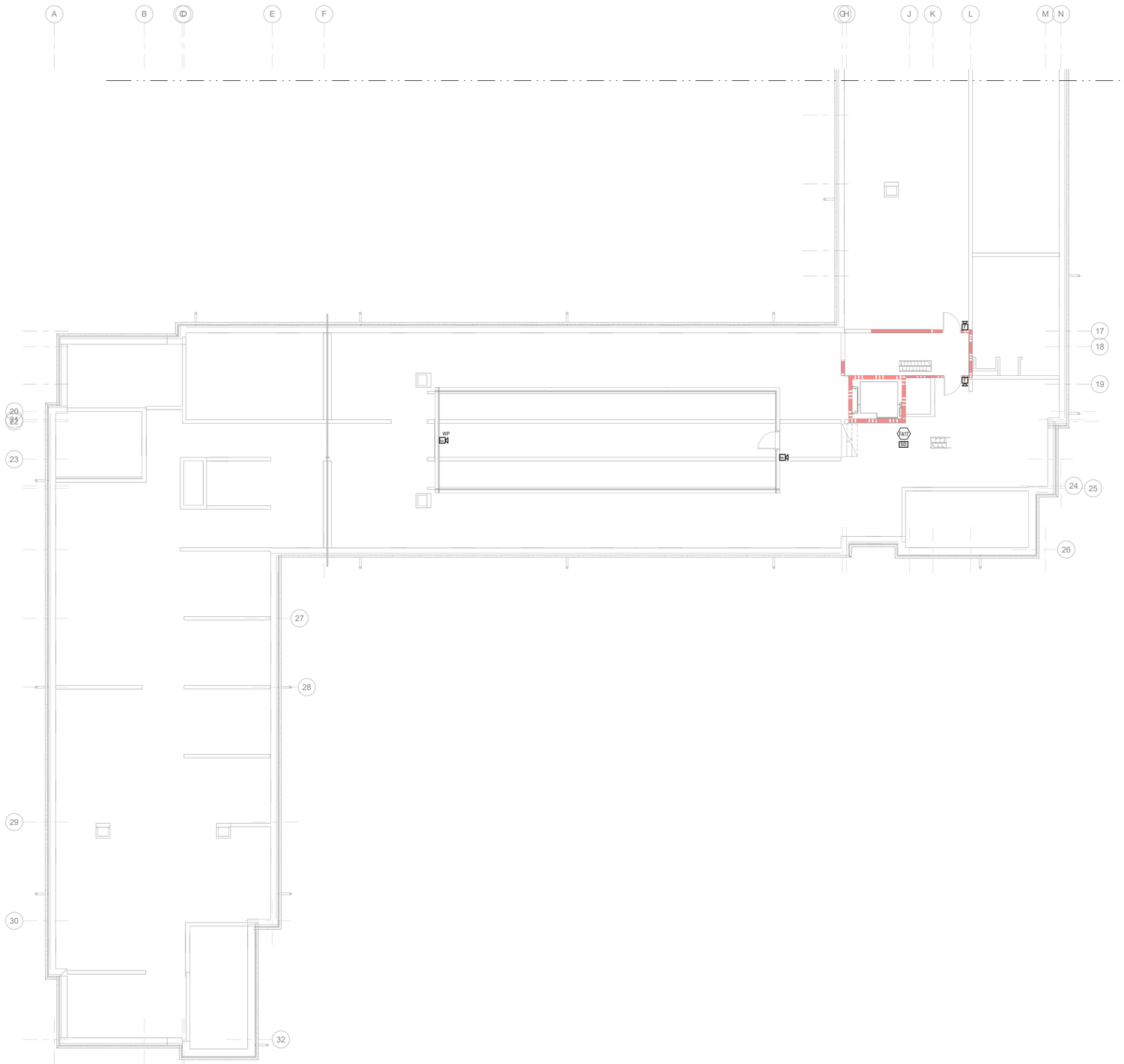
UNC WILMINGTON, NC

PROJECT NO.: 514.23018.00

SHEET TITLE: ELECTRICAL FIRE ALARM PLAN - ROOF - AREA A

SHEET NUMBER: FA106A

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1 ELECTRICAL FIRE ALARM PLAN - ROOF - AREA B
1/8" = 1'-0"

SHEET KEYED NOTES

FA17 PROVIDE SMOKE DETECTOR IN ATTIC/WALKWAY SPACE. FIELD COORDINATE EXACT LOCATION.

FIRE ALARM - GENERAL NOTES

A. THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "FACP" UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE FIRE ALARM SYSTEM.
B. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS.
C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
D. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR COMPLETE INSTALLATION OF A CONNECTION TO EXISTING FIRE PROTECTION SWITCHES.
E. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
F. TAP SPEAKERS TO PROVIDE SUFFICIENT AUDIBILITY FOR AREA SERVED.
G. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.
H. AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (UON). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
I. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.
J. RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR AUTHORITY HAVING JURISDICTION.
K. PROVIDE FIRE ALARM MANUFACTURER WITH LOCATION DESCRIPTIONS FOR ALL FIRE ALARM DEVICES AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR PRE-PROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE DESCRIPTIONS WITH BUILDING OWNER. UTILIZE FINAL ROOM NAMES AND NUMBERS, NOT NAMES AND NUMBERS FROM FLOOR PLANS.
L. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
M. MODIFY AND/OR EXPAND EXISTING CONTROL PANEL(S) AND ANNUNCIATOR(S) TO ACCOMMODATE AS REQUIRED TO SUPPORT ADDITIONAL DEVICES SHOWN. FURNISH AND INSTALL ANY MODULES OR EQUIPMENT NECESSARY TO EXPAND SYSTEM. EXISTING ANNUNCIATOR(S) AND CONTROL PANEL(S) SHALL BE UPDATED TO DISPLAY TROUBLES AND ALARM LOCATIONS FOR ALL NEW ZONES.
N. PROVIDE CONNECTIONS TO NEW ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH SUCCESSFUL DOOR HARDWARE MANUFACTURER PRIOR TO CONSTRUCTION.
O. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
P. PROVIDE APPROVED TESTING AND REQUIRED CERTIFICATION OF SYSTEM COMPONENTS AND PROVE OPERATION OF SYSTEM FOR THE AREA OF WORK WHEN COMPLETE.
Q. WIRING TO ALL FIRE ALARM DEVICES SHALL BE PER NEC AND MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL WIRING REQUIREMENTS WITH THE OWNER AND FIRE ALARM VENDOR.
R. ALL NEW DEVICES INDICATED, SUCH AS SMOKE DETECTORS, NOTIFICATION APPLIANCES, ETC., SHALL MATCH AND BE COMPATIBLE WITH EXISTING BUILDING SYSTEM.
S. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO EMERGENCY LIFE-SAFETY BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.
T. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
U. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
V. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS, ELECTRICAL APPROVALS, AND APPROVALS FROM THE STATE OFFICE OF FIRE SAFETY OR AUTHORITY HAVING JURISDICTION (AHJ). THIS INCLUDES PREPARING DRAWINGS, CUTSHEETS, AND OTHER DOCUMENTATION REQUIRED BY THE AHJ OR FIRE ALARM EQUIPMENT MANUFACTURER. A COPY OF THESE REQUIREMENTS SHALL BE OBTAINED FROM AHJ. THE DRAWINGS SHALL BE PREPARED AS A FINAL SUBMITTAL AS OUTLINED IN THE SUBMITTAL REQUIREMENTS. ELECTRONIC COPIES OF THESE PLANS REQUIRED FOR THIS PURPOSE MAY BE OBTAINED FROM THE ENGINEER. DRAWINGS THAT ARE REQUIRED FOR APPROVAL SHALL BE FINISHED WITHIN 7 WORKING DAYS OF AWARD OF CONTRACT.
W. WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER & ENGINEER AT CLOSE OF PROJECT.
X. A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.
Y. CONTRACTOR SHALL MONITOR TROUBLES ON EXISTING PANEL EQUIPMENT ON A DAILY BASIS. WHERE A TROUBLE IS INDICATED, IT SHALL BE REPORTED TO THE OWNER AND CONSTRUCTION SHALL STOP UNTIL TROUBLE IS RESOLVED UNLESS OTHERWISE INDICATED BY OWNER.
Z. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.
AA. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

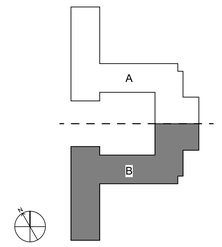
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

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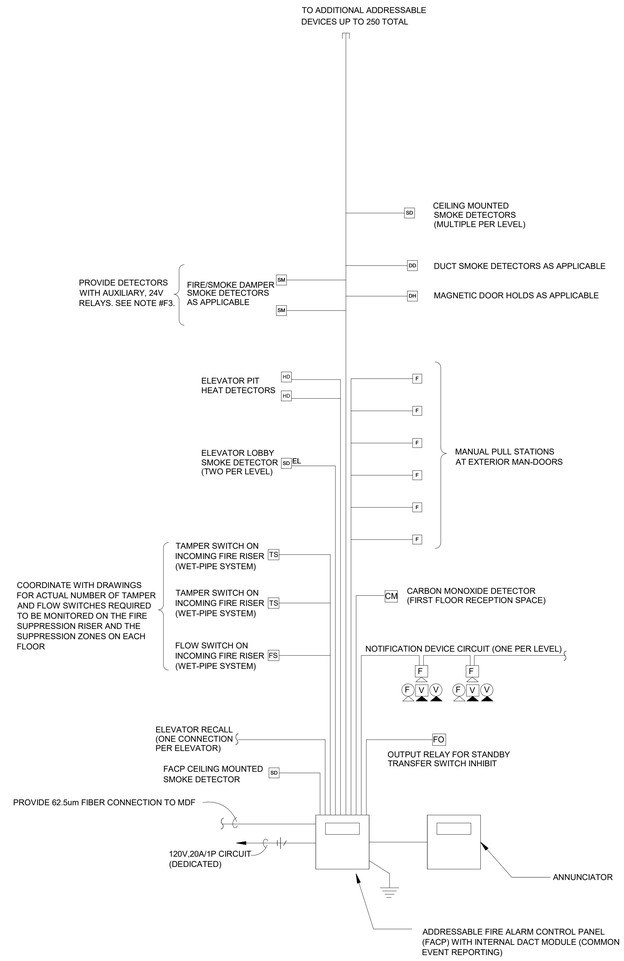
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SHEET NUMBER
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1 FIRE ALARM RISER
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FIRE ALARM SYSTEM:
THE PLACEMENT/LOCATION OF AUDIO/VISUAL FIRE ALARM DEVICES AS SHOWN ON THE PLANS IS DIAGRAMMATIC. AT FIRE ALARM CONTRACTORS DISCRETION, COMBINATION AUDIO/VISUAL CAN BE AUDIO OR VISUAL ONLY TO ACHIEVE THE REQUIRED AUDIBLE AND VISUAL COVERAGE. CALCULATIONS FOR INTELLIGIBILITY VIA COMPUTER SOFTWARE CALCULATIONS SHALL BE PROVIDED ENSURING COMPLIANCE WITH NFPA (ANNEX D SPEECH INTELLIGIBILITY).

SYSTEM RESPONSIBILITY GENERAL NOTES:

A. REFER TO VENDOR DRAWINGS FOR COMPLETE SCOPE OF WORK RELATING TO VENDOR-FURNISHED EQUIPMENT. ALL WORK INDICATED ON VENDOR DRAWINGS SHALL BE INCLUDED BY THE CONTRACTOR.
B. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
C. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.
D. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS, TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
E. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.
F. WHERE INDICATED AS CFCI, THE CONTRACTOR SHALL PROVIDE THE SYSTEM COMPLETE, INCLUDING ALL ROUGH-INS, CABLING, DEVICES, POWER, ETC. THE CONTRACTOR SHALL CONTACT THE LISTED VENDOR FOR PRICING PRIOR TO BID. ALL SYSTEMS SHALL MATCH EXISTING FACILITY STANDARDS AND BE FULLY COMPATIBLE WITH ANY EXISTING SYSTEMS. ALL SYSTEM VENDORS SHALL COORDINATE EXACT SYSTEM REQUIREMENTS WITH OWNER PRIOR TO BID. NEW COMPONENTS SHALL BE INTERCONNECTED WITH EXISTING SYSTEMS WHERE POSSIBLE. ALL NEW SYSTEM DESIGNS AND PROGRAMMING SHALL BE COORDINATED WITH THE OWNER PRIOR TO ORDERING. ALL PROGRAMMING SHALL BE INCLUDED AS REQUIRED BY THE OWNER. PROVIDE 4 HOURS OF TRAINING FOR EACH SYSTEM.

FIRE ALARM SYSTEM LEGEND:

F	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE
F	FIRE ALARM CEILING AUDIO/VISUAL NOTIFICATION DEVICE
V	FIRE ALARM VISUAL NOTIFICATION DEVICE
V	FIRE ALARM CEILING VISUAL NOTIFICATION DEVICE
F	FIRE ALARM MANUAL PULL STATION
DD	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
HD	CEILING MOUNTED FIRE ALARM HEAT DETECTOR
SD	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR
TS	FIRE ALARM TAMPER SWITCH
FS	FIRE ALARM FLOW SWITCH
PIV	FIRE ALARM POST INDICATING VALVE
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR
DH	MAGNETIC DOOR HOLDER - RELEASES UPON FIRE ALARM ACTIVATION COORDINATE ROUGH-IN LOCATION WITH ARCHITECT
CM	CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE
FO	FIRE ALARM ADDRESSABLE OUTPUT RELAY
FSD	FIRE SMOKE DAMPER

FIRE ALARM SYSTEM GENERAL NOTES:

F1. PROVIDE AN INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEM FOR THE NEW FACILITY. THIS FIRE ALARM SYSTEM SHALL BE CAPABLE OF MONITORING THE INCOMING FIRE SUPPRESSION RISER, MANUAL PULL-STATIONS, ALL CEILING MOUNTED AUTOMATIC SMOKE AND HEAT DETECTORS AND ALL DUCT-MOUNTED AUTOMATIC SMOKE DETECTORS. IN ADDITION, PROVIDE THIS SYSTEM WITH A DIGITAL DIALER CONNECTED TO A MONITORING SERVICE SO THAT THE PROPER AUTHORITIES ARE NOTIFIED IN THE EVENT OF AN ALARM CONDITION.

F2. PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE DUCTWORK SERVING EACH AUTOMATIC FIRE/SMOKE DAMPER. THESE DETECTORS ARE TO MONITOR THE DUCT OPENING IN A SMOKE OR FIRE RATED PARTITION. THESE DETECTORS ARE TO BE PROVIDED WITH AN AUXILIARY, 24V, NORMALLY-CLOSED, RELAY WHICH HOLDS THE DAMPER OPEN. THIS RELAY IS TO KEEP THE DAMPER OPEN UNDER NORMAL CONDITIONS, THIS RELAY IS TO BE WIRED SO THAT IT OPENS, THUS ALLOWING THE DAMPER TO CLOSE, IN THE EVENT OF AN ALARM OR LOSS OF POWER CONDITION. THESE DETECTORS ARE TO BE SUPPLIED AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR AND ARE TO BE INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR.

F3. PROVIDE ADDRESSABLE NOTIFICATION APPLIANCES WITH THIS SYSTEM. THESE APPLIANCES ARE TO BE RED WITH WHITE LETTERING. THE SYSTEM SHALL BE AN INTELLIGENT ADDRESSABLE SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. VISUAL NOTIFICATION APPLIANCES SHALL BE CAPABLE OF MULTIPLE CANDELA SETTINGS UP TO 110 CANDELAS. ALL CONDUIT IN THE FIRE ALARM SYSTEM SHALL BE 3/4" SIZE EXCEPT AS OTHERWISE NOTED. PROVIDE LARGER CONDUIT IF REQUIRED TO MAINAIN CONDUCTORS AT 40% MAX. FILL.

F4. FIRE ALARM MANUAL STATIONS SHALL BE DOUBLE-ACTION TYPE, POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET, AND ALL SHOULD BE KEYED ALIKE.

F5. AVOID PLACEMENT OF HEAT DETECTORS CLOSE TO HEAT-PRODUCING EQUIPMENT WHERE RATE-OF-RISE WILL DEGRADE DETECTOR PERFORMANCE OR PRODUCE NUISANCE ALARMS. USE DEVICES CAPABLE FIXED TEMPERATURE (165 F TO 190 F) DETECTION IN SUCH AREAS.

F6. THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE IN FULL ACCORDANCE WITH THE CURRENT EDITION OF THE NFPA, THE IBC WITH LOCAL AMMENDMENTS, THE AMERICANS WITH DISABILITIES ACT AND ALL OTHER APPLICABLE CODES.

F7. COORDINATE WITH THE DOOR HARDWARE SET SPECIFICATIONS AND THE SECURITY CONTRACTOR PRIOR TO INSTALL TO VERIFY THE DOORS THAT WILL REQUIRE CONNECTION TO THE FIRE ALARM SYSTEM.

F8. ALL ANNUNCIATOR LEGEND WORDING AND/OR ALPHANUMERIC DISPLAY LEGENDS SHALL BE APPROVED THE ENGINEER, OWNER, AND LOCAL FIRE DEPARTMENT AUTHORITY, AS APPLICABLE. SUBMIT THIS INFO. WITH SHOP DRAWING SUBMITTAL.

F9. THE SENSITIVITY OF SMOKE DETECTORS SHALL BE ADJUSTED FOR THE SERVICE DUTY IN THE AREA INDICATED, TO SUIT BUILDING OPERATIONAL CONDITIONS.

F10. WIRE SIZE SELECTIONS FOR AUDIO/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

F11. RISER DIAGRAM FOR FIRE ALARM SYSTEM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER AND THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHALL'S OFFICE OR THE LOCAL AUTHORITY HAVING JURISDICTION, AS APPLICABLE. IT IS THE RESPONIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANITIES AND LOCATION OF FIRE ALARM DEVICES PRIOR TO SYSTEM ACTIVATION.

F12. AUTOMATIC FIRE ALARM DETECTORS SHALL BE LOCATED SO AS TO PREVENT SHIELDING BY DUCTWORK, EQUIPMENT AND PIPING ON CEILING. SPACING BETWEEN DETECTORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS IN ANY CASE. ADDITIONAL DETECTORS SHALL BE PROVIDED IF NEEDED TO INSURE COMPLETE COVERAGE OF THE INDICATED SPACE.

F13. FIRE ALARM SIGNALING DEVICES SHALL BE SEMI-FLUSH TYPE AUDIBLES WITH FLASHING LAMP MOUNTED ON SAME PLATE. SURFACE-MOUNTED UNITS MAY BE USED IN UNFINISHED AREAS.

F14. NO SMOKE DETECTORS SHALL BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F15. PROVIDE ALL ZONE MODULES AS REQUIRED FOR SHUTOFFS ON SOUND SYSTEMS AND PAGING SYSTEMS.

F16. PROVIDE CLEAR COVER BOX ON ALL PULL STATIONS SO THAT SIREN GOES OFF FIRST WHEN COVER BOX IS LIFTED.

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

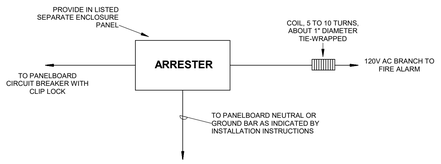
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE ALARM RISER DIAGRAM

SHEET NUMBER
FA701

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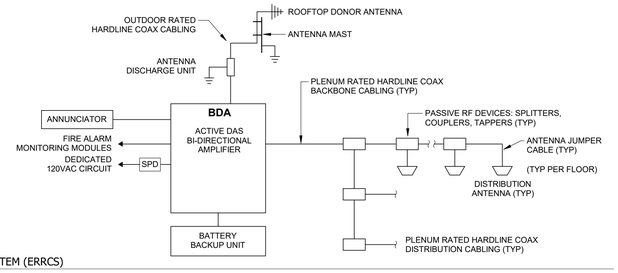


NOTES:
1. ARRESTER SHALL BE UL LISTED, FEED THROUGH TYPE, EQUIVALENT TO EFI HWM-120, LEVITON OEM-120EFI, NORTHERN TECHNOLOGIES TCS-HW, OR TRANSTECTOR ACP100BWN3.
2. TRIM EXCESS LEAD LENGTHS.

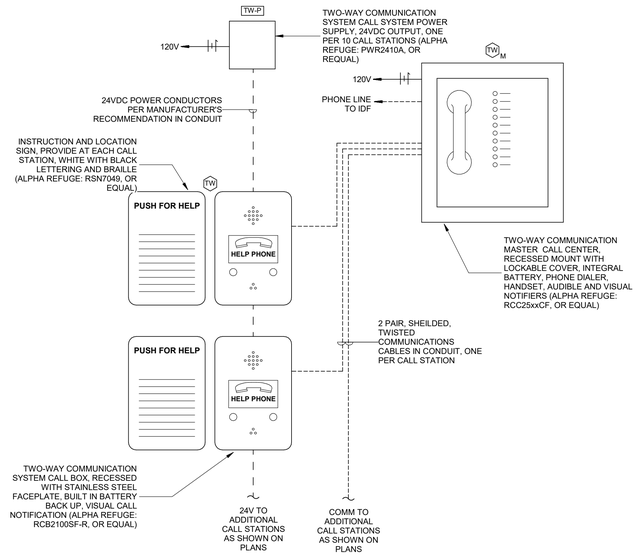
1 FIRE ALARM ARRESTER CIRCUITING
NOT TO SCALE

NOTES:
A. COMPLY WITH NFPA 1225.
B. RISER DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND DEVICE INTERCONNECTION ONLY. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES REQUIRED TO MEET THE INTENT AND PERFORMANCE REQUIREMENTS OF THE SPECIFICATIONS.
C. COORDINATE LOCATION OF DONOR ANTENNA WITH RF SIGNAL STRENGTH FROM NEAREST TOWER PRIOR TO INSTALLATION.
D. PROVIDE GROUNDING/BONDING FOR ALL OUTDOOR CABLES, ANTENNAS, AND MASTS IN ACCORDANCE WITH NEC CHAPTER 810.
E. PROVIDE SERVICE LOOP FOR ALL COAXIAL CABLING ON ROOF LEVEL.
F. PROVIDE MONITORING OF SYSTEM INTEGRITY THROUGH FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72 AND 1225 REQUIREMENTS.
G. COORIDINATE FINAL LOCATION OF SYSTEM ANNUNCIATOR WITH AHJ PRIOR TO ROUGH-IN.

RF SIGNAL STRENGTH TESTING TO DETERMINE IF THIS SYSTEM IS REQUIRED SHALL BE INCLUDED IN THE BASE BID. THE COMPONENTS AND INSTALLATION SHALL BE PRICED AS AN ALTERNATE. BOTH TESTING AND SYSTEM DESIGN SHALL ADHERE TO REQUIREMENTS SPECIFIED IN SECTION 28 51 29.

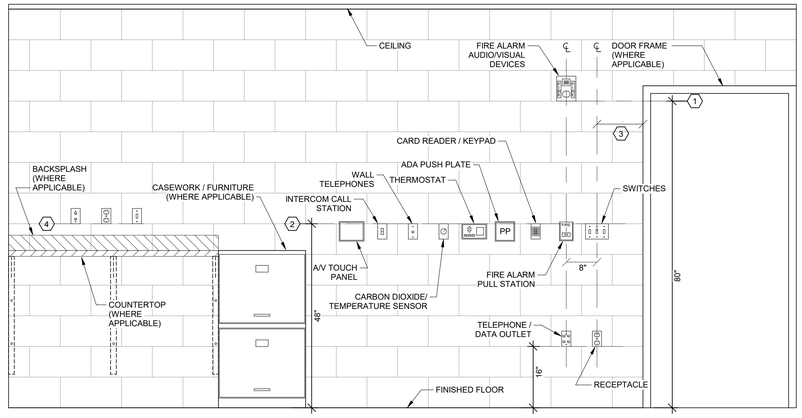


2 EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM (ERRCS)
NOT TO SCALE



GENERAL NOTES:
A. INSTALLED SYSTEM SHALL BE IBC, NFPA, ADAAG, AND ELEVATOR CODE COMPLIANT.
B. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL ELEVATIONS AND ELEVATOR CALL STATIONS (WHEN APPLICABLE).
C. PROVIDE SYSTEM CAPACITY FOR NUMBER OF CALL BOXES SHOWN ON PLANS.
D. INSTALL POWER SUPPLY ABOVE ACCESSIBLE CEILING NEAR MASTER STATION.
E. SYSTEM TO HAVE INTEGRAL BATTERY BACKUP.
F. CALL CENTER CABINET SHALL BE ABLE TO ACCEPT FIREMAN'S LOCK (BY OTHERS).
G. PROVIDE 'ABL-VOIP' WHERE USED WITH VOIP PHONE SYSTEM.
H. SYSTEM SHALL BE CAPABLE OF DIALING OUT TO FIVE REMOTE PHONE NUMBERS INCLUDING 911.

3 TWO-WAY COMMUNICATION DETAIL
NOT TO SCALE



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).

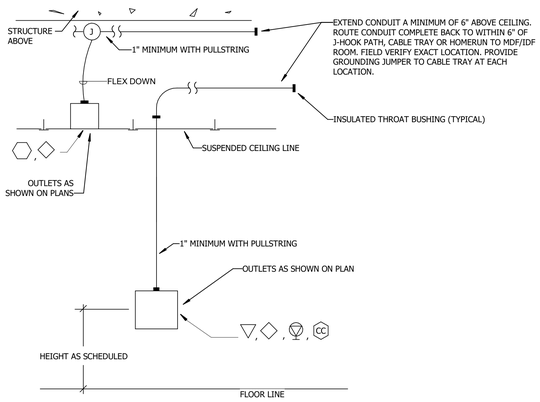
B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).

C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

4 TYPICAL WALL DEVICE MOUNTING DETAIL
NOT TO SCALE



NOTES:

A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON FRONT SHEET. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.
B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
D. INSTALL TELECOMMUNICATION AND WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.

5 ROUGHING-IN DETAIL FOR STUB-OUTS
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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E ROMEO

RUNCW25

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
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MAXWELL SHUELL

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
FIRE ALARM DETAILS

SHEET NUMBER
FA801

Autodesk Docs://UNC Wilmington - Housing Village Phase 3/RUNC25 - UNCW Residence Hall_FMEP_R24.rvt
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DESCRIPTION	ITEM USED ON PROJECT	DEVICES - O F O I	DEVICES - O F C I	DEVICES - C F C I	CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - O F C I	CABLING/CONDUCTORS - C F C I
SYSTEM RESPONSIBILITY MATRIX							
SYSTEM							
SECURITY: INTRUSION	●			●			●
SECURITY: ACCESS CONTROL	●			●			●
SECURITY: VIDEO SURVEILLANCE (CCTV)	●			●			●
STRUCTURED CABLING	●			●			●
WIRELESS INFRASTRUCTURE	●						●
AUDIO / VIDEO: DIGITAL SIGNAGE	●	●					●
AUDIO / VIDEO: INTEGRATED SYSTEMS	●	●					●

SYSTEM RESPONSIBILITY GENERAL NOTES:

A. REFER TO VENDOR DRAWINGS FOR COMPLETE SCOPE OF WORK RELATING TO VENDOR-FURNISHED EQUIPMENT. ALL WORK INDICATED ON VENDOR DRAWINGS SHALL BE INCLUDED BY THE CONTRACTOR.
B. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
C. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.
D. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS. TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
E. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SECURITY		
BLUE LIGHT STATION *SEE SPEC 27 32 26 FOR MORE INFORMATION*		BL
SECURITY ACCESS CONTROL		
DOOR POSITION SWITCH	DOOR FRAME	DP
DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	CR
SAME AS "CR" EXCEPT MULLION MOUNTED		CR M
ACCESS CONTROL PANEL	46"	SEC
DOOR HARDWARE POWER SUPPLIES	46"	PWR
KNOX BOX	46"	KB
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	DA
SECURITY CCTV VIDEO SURVEILLANCE		
CCTV CAMERA. PROVIDE BACKBOX AS NECESSARY. PROVIDE A 7' COIL OF PATCH CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION.		CR
SECURITY INTRUSION DETECTION		
NOTE: ALL INTRUSION SYSTEM DEVICES SHALL BE ROUTED IN SURFACE RACEWAY WHERE EXPOSED OR ON EXISTING WALL TO ABOVE CEILING. (U.O.N.) CONTRACTOR SHALL PROVIDE 2" BRIDLE RING PATH OR 3/4" "CONDUIT FOR ROUTING ALL CABLE CONCEALED TO EXPANSION MODULE OR MAIN CONTROL PANEL. FIELD VERIFY BEST ROUTING PATH. ALL EXACT DEVICE LOCATIONS SHALL BE ESTABLISHED PRIOR TO INSTALLATION AT "PRE-SECURITY INSTALLATION MEETING".		
INTRUSION DETECTION PANEL	46"	IDC
PANIC BUTTON: MUSHROOM STYLE, PULL TO ACTIVATE	46"	PB
MOTION DETECTOR		MD

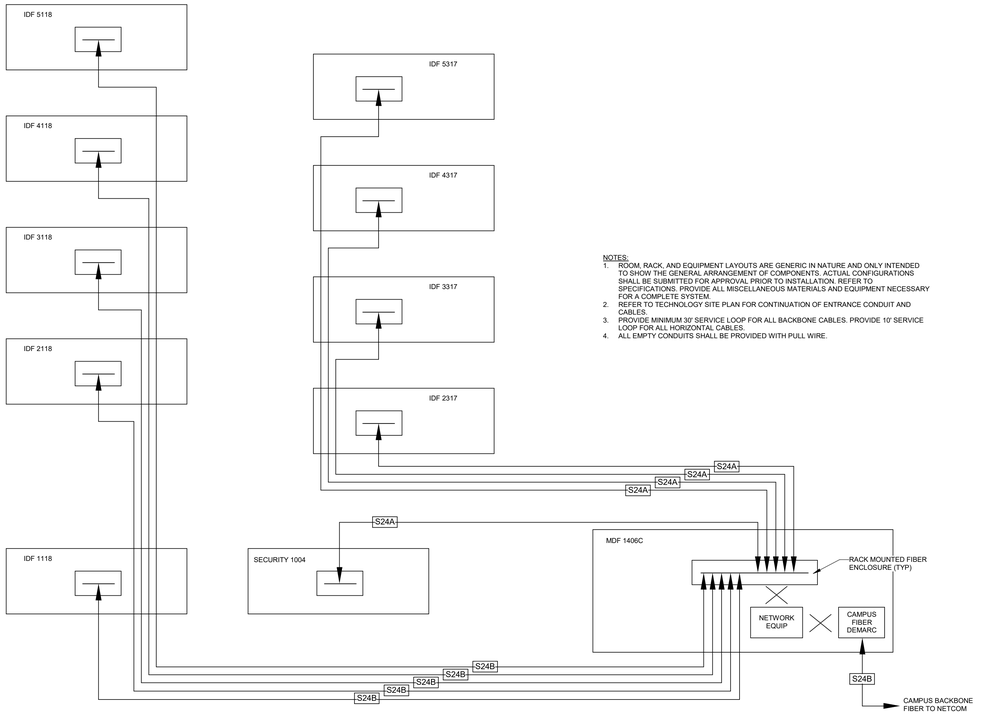
DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SPECIAL OUTLETS		
TV OUTLET, SEE DETAIL FOR MORE INFORMATION	103.5"	T
CONTROL PANELS		
ACCESS CONTROL POWER SUPPLIES/CONTROL PANEL	46"	SEC
DOOR HARDWARE POWER SUPPLIES	46"	PWR
INTRUSION DETECTION PANEL	46"	IDC
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS. PROVIDE A 10' COIL PATCH CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION FOR 50% OF FIELD TERMINATED DATA CABLES. JACK COLORING SHALL MATCH PATCH CABLE.	1'-6"	#D
DATA OUTLET : (1) DATA DROP. PROVIDE A 10' COIL PATCH CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION FOR 50% OF FIELD TERMINATED DATA CABLES. JACK COLORING SHALL MATCH PATCH CABLE.	1'-6"	WAP
WIRELESS ACCESS POINT. PROVIDE (1) CAT6A CABLE WITH FIELD TERMINATED MODULAR PLUG. PROVIDE 20' COIL ABOVE ACCESSIBLE CEILING FOR ADJUSTMENT OF FINAL LOCATION. PROVIDE RACEWAY AND JUNCTION BOX TO CONTAIN SLACK COIL IN AREAS WITH NO ACCESSIBLE CEILING. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST FINAL LOCATIONS PRIOR TO BENEFICIAL OCCUPANCY.	CLG WALL	WAP WAP
MISCELLANEOUS		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
ABBREVIATIONS		
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	CFCI	
CONTRACTOR FURNISHED, OWNER INSTALLED	CFOI	
OWNER FURNISHED, OWNER INSTALLED	OFOI	

CABLE AND CONDUIT COLOR SCHEDULE

SYSTEM	CABLE COLOR	CONDUIT COLOR	JACK INSERT	CABLE TYPE
DATA	BLUE	N/A	YELLOW	CAT6A
WIRELESS	PURPLE	N/A	PURPLE	CAT6A
A/V	GREEN	N/A	GREEN	CAT6A
ACCESS CONTROL	ORANGE	N/A	ORANGE	CAT6A
SECURITY	BLUE	N/A	BLUE	CAT6A

BACKBONE LINK SCHEDULE

LINK NO	STRANDS	GRADE	SERIES	MANUFACTURER	PART NUMBER
S24A	24	OS2	INDOOR TIGHT BUFFER DISTRIBUTION ARMORED PLENUM	CORNING	024EWT-T4101P20
S24B	24	OS2	INDOOR/OUTDOOR TIGHT BUFFER DISTRIBUTION ARMORED RISER	CORNING	024EWP-T4101A20



NOTES:
1. ROOM, RACK, AND EQUIPMENT LAYOUTS ARE GENERIC IN NATURE AND ONLY INTENDED TO SHOW THE GENERAL ARRANGEMENT OF COMPONENTS. ACTUAL CONFIGURATIONS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS. PROVIDE ALL MISCELLANEOUS MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE SYSTEM.
2. REFER TO TECHNOLOGY SITE PLAN FOR CONTINUATION OF ENTRANCE CONDUIT AND CABLES.
3. PROVIDE MINIMUM 30' SERVICE LOOP FOR ALL BACKBONE CABLES. PROVIDE 10' SERVICE LOOP FOR ALL HORIZONTAL CABLES.
4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL WIRE.

1 TELECOM ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES (SECURITY):

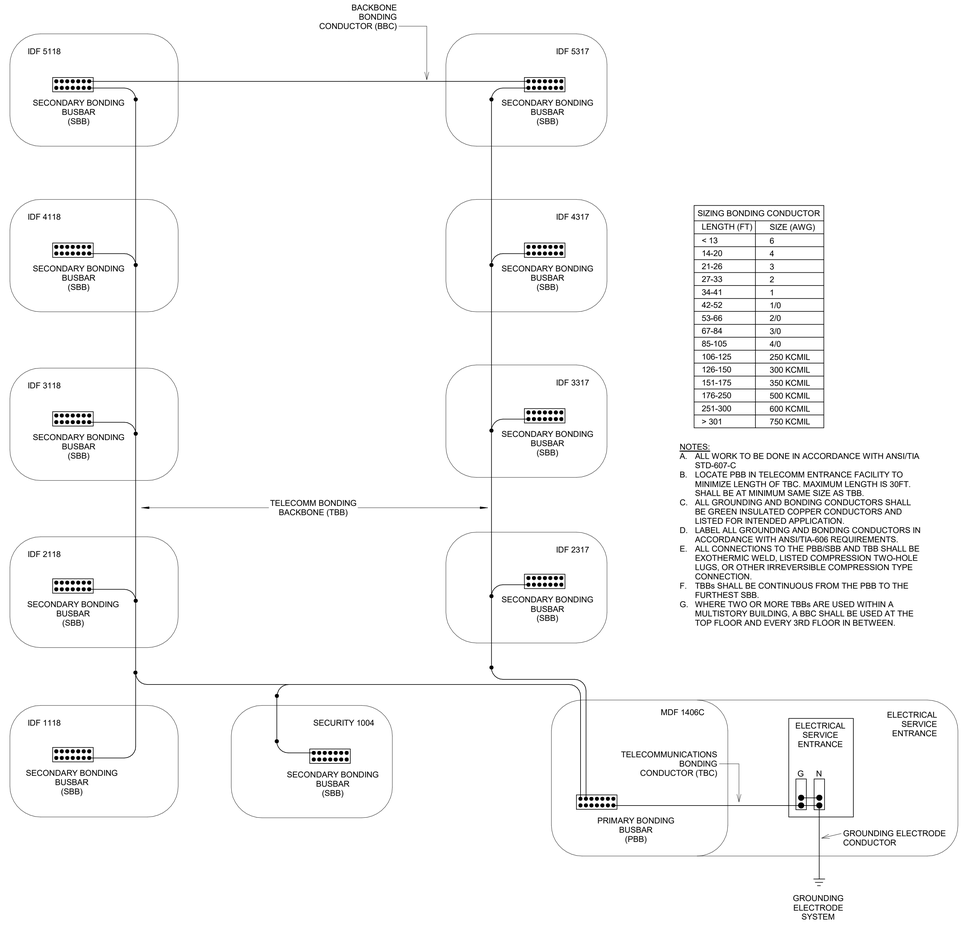
A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. REFER TO "SYSTEMS INSTALLATION MATRIX" AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS FOR EACH SYSTEM.
C. REFER TO CABLING PATH INSTALLATION DETAILS FOR PATHWAY REQUIREMENTS. DO NOT ROUTE OPEN CABLING ABOVE INACCESSIBLE CEILINGS OR IN FINISHED AREAS WITH NO CEILING.
D. CABLING REQUIREMENTS SHOWN ON PLANS MAY VARY BY MANUFACTURER. COORDINATE EXACT CABLING REQUIREMENTS WITH EQUIPMENT SUPPLIERS.
E. COORDINATE FINAL PLACEMENT OF ALL BUILDING MOUNTED CCTV CAMERAS WITH ARCHITECT & ENGINEER PRIOR TO INSTALLATION.
F. COORDINATE PLACEMENT OF DESKTOP MOUNTED SECURITY DEVICES WITH MILLWORK/CASEWORK AND FURNITURE PLANS PRIOR TO INSTALLATION.

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
C. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES (INTERCONNECTION):

A. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES.
B. COORDINATE ALL WORK WITH ARCHITECTURAL / MECHANICAL / PLUMBING / FIRE PROTECTION PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.
C. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.
D. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.
E. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.



2 TELECOM GROUNDING RISER
NOT TO SCALE

SIZING BONDING CONDUCTOR	
LENGTH (FT)	SIZE (AWG)
< 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 KCMIL
126-150	300 KCMIL
151-175	350 KCMIL
176-250	500 KCMIL
251-300	600 KCMIL
> 301	750 KCMIL

NOTES:
A. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C
B. LOCATE PBB IN TELECOMM ENTRANCE FACILITY TO MINIMIZE LENGTH OF TBC. MAXIMUM LENGTH IS 30FT. SHALL BE AT MINIMUM SAME SIZE AS TBB.
C. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
D. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA-606 REQUIREMENTS.
E. ALL CONNECTIONS TO THE PBB/SBB AND TBB SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
F. TBBs SHALL BE CONTINUOUS FROM THE PBB TO THE FURTHEST SBB.
G. WHERE TWO OR MORE TBBs ARE USED WITHIN A MULTISTORY BUILDING, A BBC SHALL BE USED AT THE TOP FLOOR AND EVERY 3RD FLOOR IN BETWEEN.

Sheet List - Technology

SHEET #	SHEET NAME
T001	LEGEND, RISERS, & NOTES
T002	TECHNOLOGY SITE PLAN
T101A	TECHNOLOGY PLAN - LEVEL 01 - AREA A
T101B	TECHNOLOGY PLAN - LEVEL 01 - AREA B
T102A	TECHNOLOGY PLAN - LEVEL 02 - AREA A
T102B	TECHNOLOGY PLAN - LEVEL 02 - AREA B
T103A	TECHNOLOGY PLAN - LEVEL 03-05 - AREA A
T103B	TECHNOLOGY PLAN - LEVEL 03-05 - AREA B
T501	RACK ELEVATIONS
T701	TELECOM DETAILS
T702	SECURITY DETAILS
T703	ACCESS CONTROL DETAILS

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RUNCW25 01.15.2025

SCO # 24-29053-02D

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DAN KNOX, PE
DESIGN TEAM
JAKE DEJOHN

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

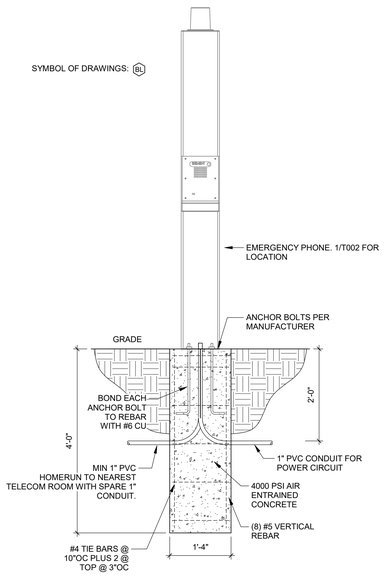
PROJECT NO.
514.23018.00

SHEET TITLE
LEGEND, RISERS, & NOTES

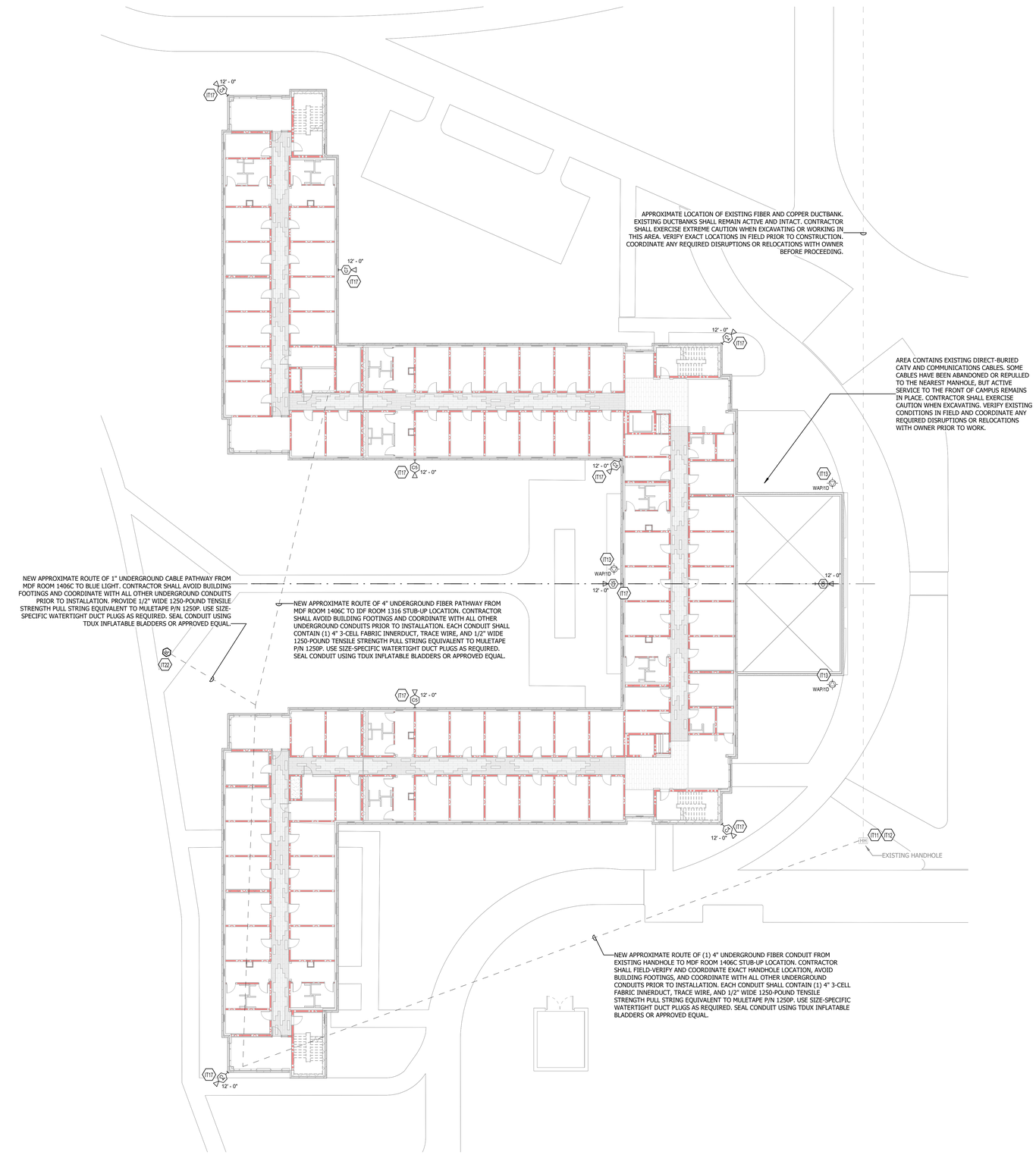
SHEET NUMBER
T001

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GENERAL NOTES:
A. TOP OF PEDESTAL BASE SHOULD BE AT OR BELOW FINISHED GRADE TO ENSURE THAT UNIT IS COMPLIANT WITH ADA. CALL BUTTON MUST NOT BE MORE THAN 48" ABOVE FINISHED GRADE. CALL BUTTON AND SPEAKER MUST FACE SIDEWAL, LANDING, OR PAVED AREA.



2 TYP EMERGENCY BLUE PHONE BASE
NOT TO SCALE



1 TECHNOLOGY SITE PLAN
0 1' 2' 4' 8' 16' 24' 32'
1/16" = 1'-0"

SHEET KEYED NOTES

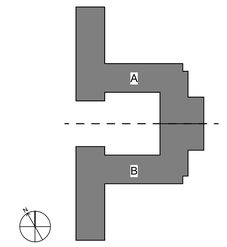
- IT11 CONTRACTOR SHALL ROUTE NEW FIBER HOMERUN FROM NETCOM BUILDING TO NEW MDF, APPROXIMATELY 2,000 FEET IN LENGTH, USING EXISTING UNDERGROUND PATHWAYS. THIS HANDHOLE SHALL SERVE AS THE FINAL TRANSITION POINT BEFORE ENTERING THE BUILDING. VERIFY PATHWAY CONTINUITY AND UTILIZE EXISTING CONDUITS AS AVAILABLE. COORDINATE FINAL ROUTING AND TERMINATION LOCATION WITH OWNER.
- IT12 PROVIDE MINIMUM 50 FT OF SLACK LOOP FOR ALL INCOMING FIBER CABLES WITHIN THIS HANDHOLE. SLACK SHALL BE COILED NEATLY AND PLACED TO AVOID DAMAGE DURING ACCESS OR MAINTENANCE. COORDINATE STORAGE METHOD AND LOCATION WITH OWNER IF SPACE IS LIMITED.
- IT13 INDICATES APPROXIMATE LOCATION FOR OUTDOOR WIRELESS BOLLARD. PROVIDE CONDUIT AND CABLING FOR OWNER-FURNISHED, CONTRACTOR-INSTALLED DEVICE. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS WITH OWNER AND HARDSCAPE/LANDSCAPE PLANS PRIOR TO ROUGH-IN.
- IT17 EXTERIOR CAMERA LOCATION SHALL BE COORDINATED WITH LANDSCAPING TO ENSURE FOLIAGE DOES NOT OBSTRUCT CAMERA FIELD OF VIEW. ADJUST FINAL MOUNTING LOCATIONS AS REQUIRED IN FIELD.
- IT22 PROVIDE DATA PATHWAY AS SHOWN AND COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED 120V POWER CONNECTION. EXACT MOUNTING LOCATION AND FINAL REQUIREMENTS SHALL BE VERIFIED WITH EC AND OWNER PRIOR TO INSTALLATION.

RATED WALLS AND PARTITIONS

FIRE BARRIERS
2-HR FIRE BARRIER
1-HR FIRE BARRIER

FIRE PARTITIONS
1-HR FIRE PARTITION
.5-HR FIRE PARTITION

KEY PLAN



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RUNCW25 01.15.2025

SCO # 24-29053-02D

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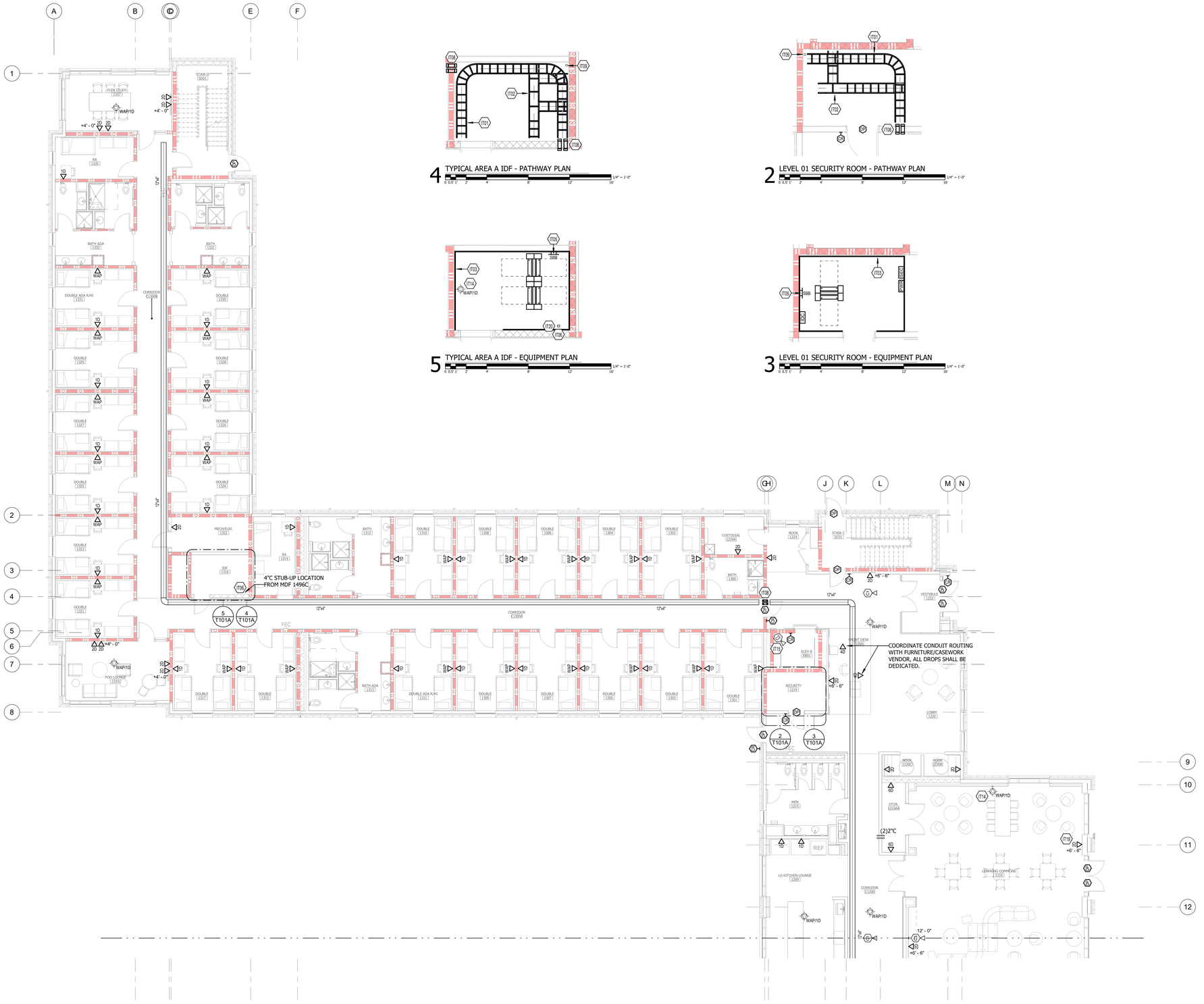
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
TECHNOLOGY SITE PLAN

SHEET NUMBER
T002

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1 TECHNOLOGY PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

4 TYPICAL AREA A IDF - PATHWAY PLAN
1/4" = 1'-0"

2 LEVEL 01 SECURITY ROOM - PATHWAY PLAN
1/4" = 1'-0"

5 TYPICAL AREA A IDF - EQUIPMENT PLAN
1/4" = 1'-0"

3 LEVEL 01 SECURITY ROOM - EQUIPMENT PLAN
1/4" = 1'-0"

SHEET KEYED NOTES

IT01	18" LADDER RACK AT 8'-6" AFF. PROVIDE SWEEPING TURNS. PROVIDE WATERFALL DEVICES TO TRANSITION FROM THE LADDER RACKS ABOVE TO THE LADDER RACKS BELOW.
IT02	12" LADDER RACK. MOUNT 7'-6" AFF TO TOP OF DATA RACKS UTILIZING 6" RUNWAY ELEVATION KITS.
IT03	3/4" FIRE-RATED PLYWOOD A/C GRADE. DO NOT PAINT. MOUNT ON ALL WALL INDICATED. MOUNT WITH 'A' SIDE FACING OUTWARDS.
IT05	12-INCH SECONDARY BONDNG BUSBAR. REFER TO DETAIL FOR MORE INFORMATION.
IT06	PROVIDE 18-INCH VERTICAL LADDER RACK FROM FLOOR SLEEVES TO HORIZONTAL LADDER RACK.
IT08	PROVIDE RE-PENETRABLE FIRESTOP SLEEVE(S) FOR CABLE PENETRATION THROUGH RATED WALL. USE STI EZ-PATH SERIES 44+ OR APPROVED EQUAL. CONTRACTOR SHALL COORDINATE FINAL SLEEVE COUNT AND SIZE BASED ON ACTUAL INSTALLED CABLING AND ALLOWANCE FOR FUTURE CAPACITY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
IT09	PROVIDE (1) STI EZ-PATH SERIES 22 DEVICE, OR APPROVED EQUAL, AS A RE-PENETRABLE FIRESTOP PATHWAY FOR BACKBONE CABLING BETWEEN FLOORS. SLEEVE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. COORDINATE FINAL CABLE COUNT TO ENSURE COMPLIANCE WITH MAXIMUM FILL RATIO.
IT14	WIRELESS ACCESS POINT WALL MOUNTED 10'-0" ABOVE FINISHED FLOOR. OWNER SHALL PROVIDE ACCESS POINT AND MOUNTING BRACKET. CONTRACTOR SHALL INSTALL PER MANUFACTURER REQUIREMENTS.
IT15	ELEVATOR CAB CAMERA INSTALLATION. PROVIDE SPECIAL CAT 6 CABLE (COMMSCOPE P/N 874049304/10) FROM CAMERA LOCATION ABOVE CEILING TO SECURITY ROOM CAMERA RACK. CABLE SHALL BE ROUTED WITH CAB TRAVEL CABLE USING APPROVED METHODS AND TERMINATED WITH RJ45 CONNECTORS AS REQUIRED. PROVIDE GROUNDED DITEK MRJPOE TO CONNECT CAB CABLE TO STANDARD CAT 6 RUN. CONTRACTOR SHALL DRAFT AND SUBMIT VARIANCE REQUEST LETTER TO NCDOI ELEVATOR AND AMUSEMENT DEVICE BUREAU FOR APPROVAL.
IT18	PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING FROM PROJECTOR LOCATION ABOVE CEILING TO STORAGE ROOM 1013A. PROVIDE PASS-THRU TYPE WALL PLATE AT PROJECTOR END. COORDINATE WALL PLATE COLOR WITH ARCHITECT.
IT20	PROVIDE RE-PENETRABLE FIRESTOP SLEEVE(S) FOR CABLE PENETRATION THROUGH RATED FLOOR. USE STI EZ-PATH SERIES 33+ OR APPROVED EQUAL. CONTRACTOR SHALL COORDINATE FINAL SLEEVE COUNT AND SIZE BASED ON ACTUAL INSTALLED CABLING AND ALLOWANCE FOR FUTURE CAPACITY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

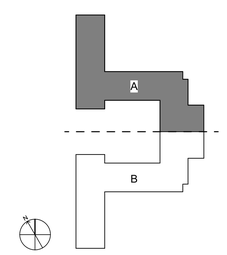
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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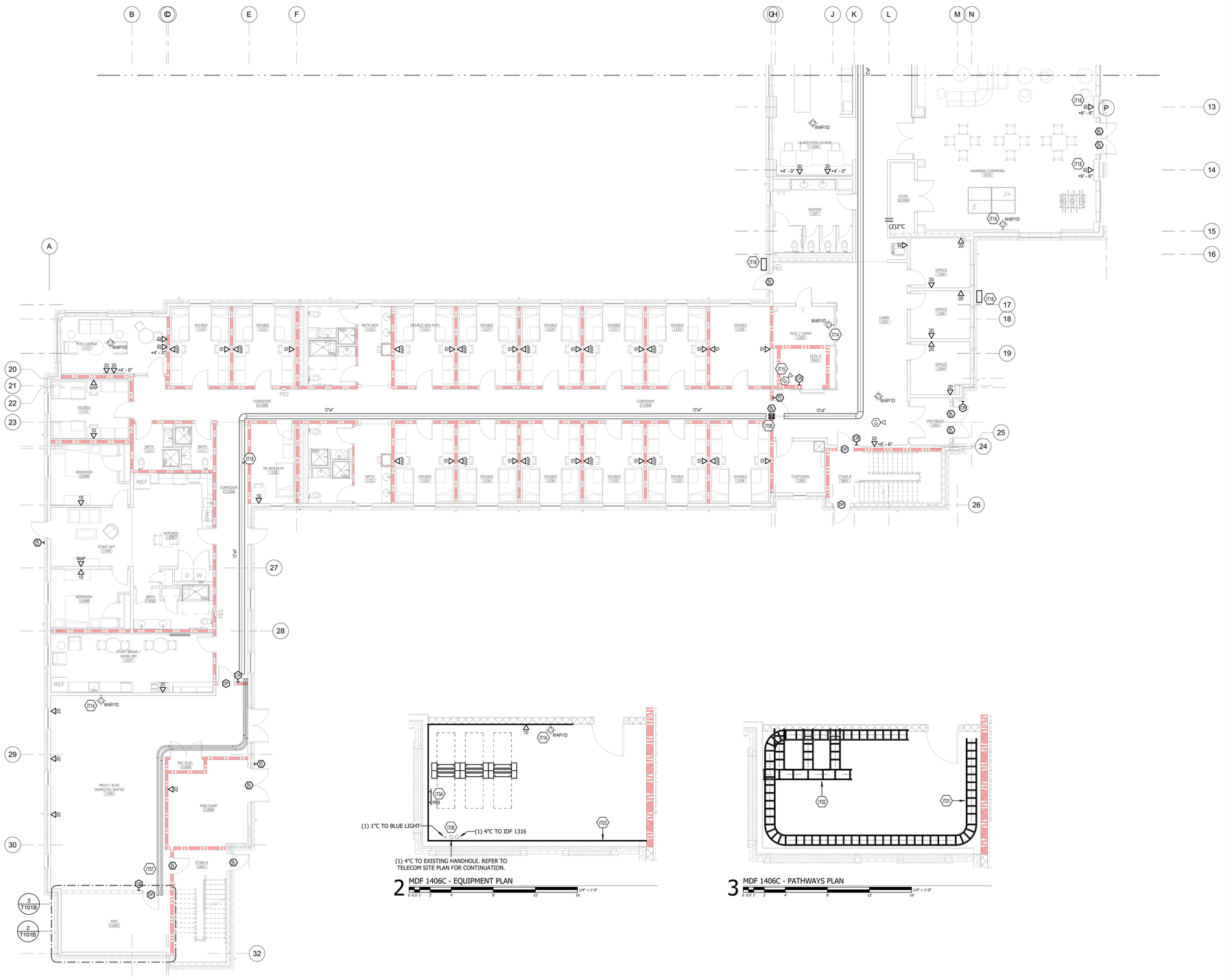
UNC WILMINGTON, NC

PROJECT NO.
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SHEET TITLE
TECHNOLOGY PLAN - LEVEL 01 - AREA A

SHEET NUMBER
T101A

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1 TECHNOLOGY PLAN - LEVEL 01 - AREA B
3/8" = 1'-0"

2 MDF 1406C - EQUIPMENT PLAN
1/4" = 1'-0"

3 MDF 1406C - PATHWAYS PLAN
1/4" = 1'-0"

SHEET KEYED NOTES

IT01	18" LADDER RACK AT 8'-6" AFF. PROVIDE SWEEPING TURNS. PROVIDE WATERFALL DEVICES TO TRANSITION FROM THE LADDER RACKS ABOVE TO THE LADDER RACKS BELOW.
IT02	12" LADDER RACK. MOUNT 7'-6" AFF TO TOP OF DATA RACKS UTILIZING 6" RUNWAY ELEVATION KITS.
IT03	3/4" FIRE-RATED PLYWOOD A/C GRADE. DO NOT PAINT. MOUNT ON ALL WALL INDICATED. MOUNT WITH 'A' SIDE FACING OUTWARDS.
IT04	24-INCH PRIMARY BONDING BUSBAR. REFER TO DETAIL FOR MORE INFORMATION.
IT06	PROVIDE 18-INCH VERTICAL LADDER RACK FROM FLOOR SLEEVES TO HORIZONTAL LADDER RACK.
IT07	PROVIDE (4) 4" CONDUITS FROM MDF. CONDUITS SHALL EXIT MDF WALL AT STAGGERED ELEVATIONS (TYP. 10'-11'6" AFF) AND ROUTE THROUGH MAIN UTILITY ROOM TO ADJACENT CORRIDOR, MAINTAINING GENERAL ELEVATION AND ALIGNMENT. COORDINATE STACKED ARRANGEMENT IN FIELD BASED ON FINAL CEILING UTILITIES. ROUTING SHALL BE COORDINATED WITH ELECTRICAL, MECHANICAL, AND PLUMBING TRADES TO AVOID CONFLICTS WITH MAINS AND OVERHEAD UTILITIES. MAINTAIN PROPER SUPPORT, BEND RADIUS FOR FIBER CABLING, AND PROVIDE FIRESTOPPING AT ALL RATED PENETRATIONS. TERMINATE INTO TELECOM CABLE TRAY.
IT08	PROVIDE RE-PENETRABLE FIRESTOP SLEEVE(S) FOR CABLE PENETRATION THROUGH RATED WALL. USE STI EZ-PATH SERIES 44+ OR APPROVED EQUAL. CONTRACTOR SHALL COORDINATE FINAL SLEEVE COUNT AND SIZE BASED ON ACTUAL INSTALLED CABLING AND ALLOWANCE FOR FUTURE CAPACITY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
IT14	WIRELESS ACCESS POINT WALL MOUNTED 10'-0" ABOVE FINISHED FLOOR. OWNER SHALL PROVIDE ACCESS POINT AND MOUNTING BRACKET. CONTRACTOR SHALL INSTALL PER MANUFACTURER REQUIREMENTS.
IT15	ELEVATOR CAB CAMERA INSTALLATION. PROVIDE SPECIAL CAT 6 CABLE (COMMSCOPE P/N 874049304/10) FROM CAMERA LOCATION ABOVE CEILING TO SECURITY ROOM CAMERA RACK. CABLE SHALL BE ROUTED WITH CAB TRAVEL CABLE USING APPROVED METHODS AND TERMINATED WITH RJ45 CONNECTORS AS REQUIRED. PROVIDE GROUNDED DITEK MRJPOE TO CONNECT CAB CABLE TO STANDARD CAT 6 RUN. CONTRACTOR SHALL DRAFT AND SUBMIT VARIANCE REQUEST LETTER TO NCDOI ELEVATOR AND AMUSEMENT DEVICE BUREAU FOR APPROVAL.
IT16	OUTDOOR CONNECTION BOX, 2'-0" x 2'-0" x 12", TO INCLUDE ONE (1) QUAD RECEPTACLE ON A DEDICATED 20A CIRCUIT AND ONE (1) 4-PORT DATA CONNECTION. BOX SHALL BE NEMA 4 RATED. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
IT18	PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING FROM PROJECTOR LOCATION ABOVE CEILING TO STORAGE ROOM 1013A. PROVIDE PASS-THRU TYPE WALL PLATE AT PROJECTOR END. COORDINATE WALL PLATE COLOR WITH ARCHITECT.
IT19	APPROXIMATE LOCATION OF (1) 4" CONDUIT SLEEVE FOR FIBER PATHWAY TO IDF 2118. CONTRACTOR SHALL FIELD-VERIFY AND COORDINATE EXACT LOCATION WITH OTHER TRADES PRIOR TO INSTALLATION.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

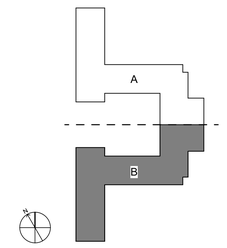
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25 01.15.2025

SCO # 24-29053-02D

ISSUE FOR
COMPLETE PACKAGE - CONSTRUCTION DOCUMENTS

ISSUE DATE
01.15.2026

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
JAMES CURRIE, PE

PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
JAKE DEJOHN

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

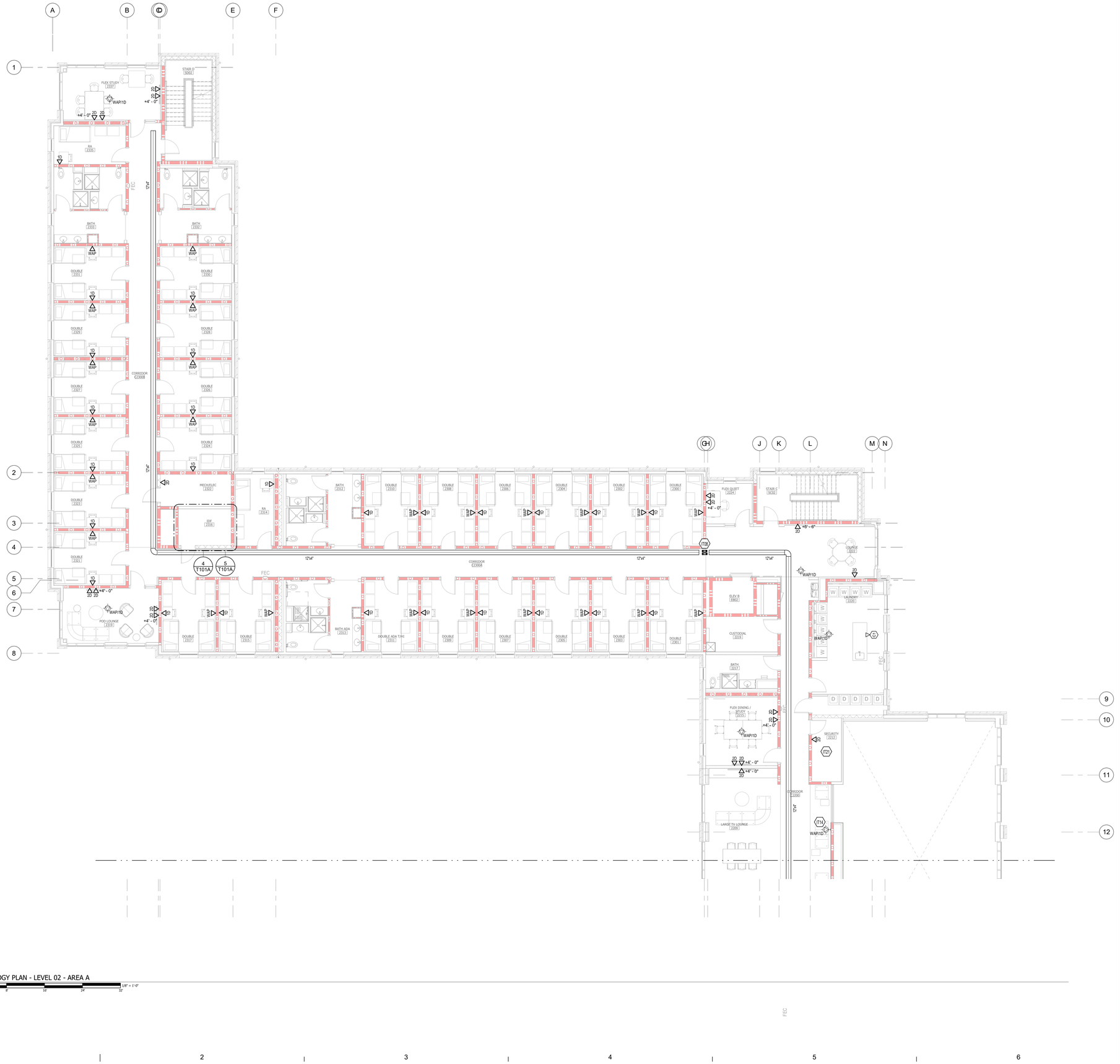
UNC WILMINGTON, NC

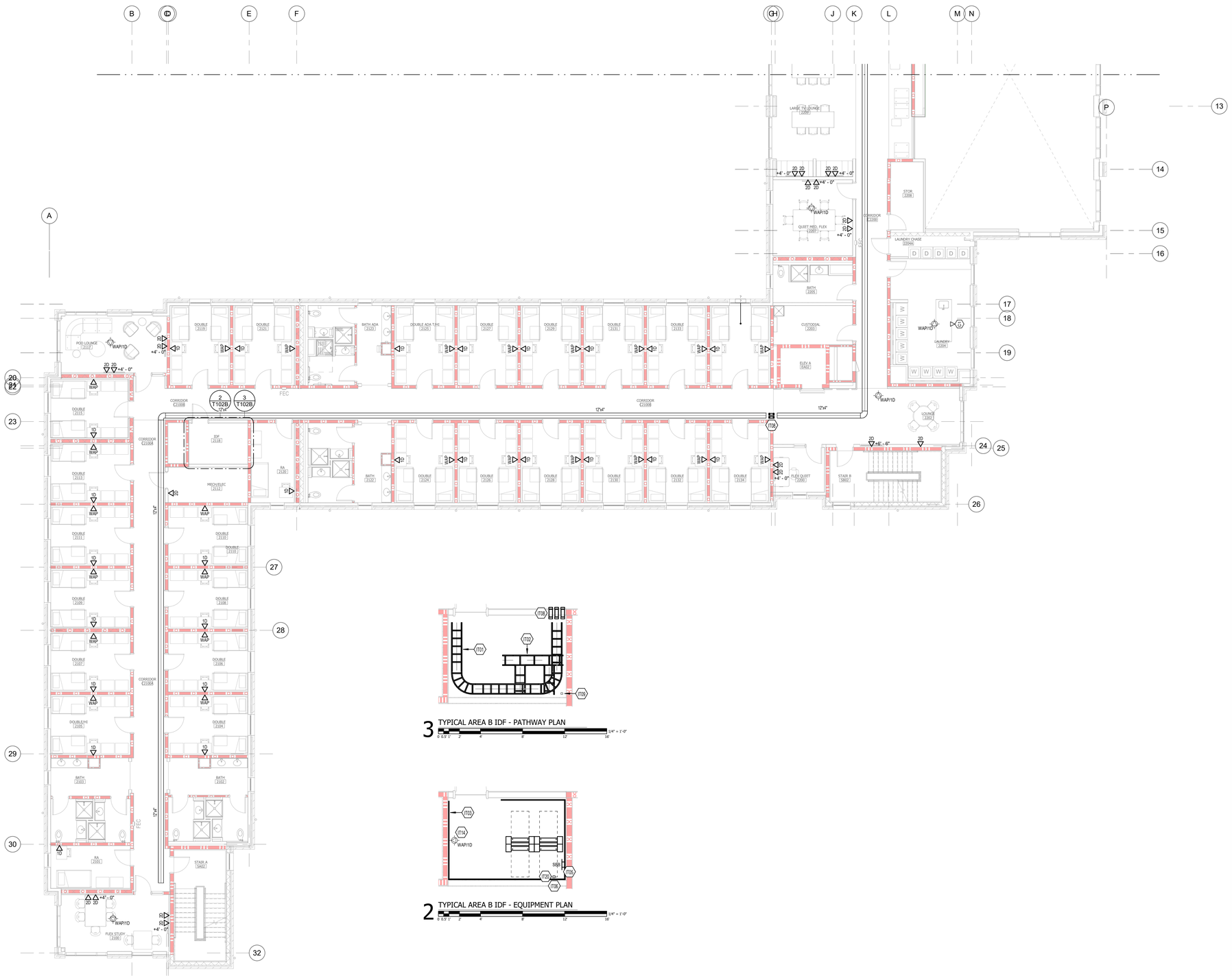
PROJECT NO.
514.23018.00

SHEET TITLE
TECHNOLOGY PLAN - LEVEL 01 - AREA B

SHEET NUMBER
T101B

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ELEV B
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CUSTODIAL
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BATH
2227
FLEX DINING / STUDY
2315
WAP/1D
SECURITY
2212
CORRIDOR
2200
LARGE TV LOUNGE
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WAP/1D
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DOUBLE ADA T/RS
2311
DOUBLE
2309
DOUBLE
2307
DOUBLE
2305
DOUBLE
2303
DOUBLE
2301
T08
T14
T22
4
T101A
5
T101A
FEC
12'x4"
17'x4"
+4' - 0"
+4' - 0"
+4' - 0



1 TECHNOLOGY PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

3 TYPICAL AREA B IDF - PATHWAY PLAN
1/4" = 1'-0"

2 TYPICAL AREA B IDF - EQUIPMENT PLAN
1/4" = 1'-0"

SHEET KEYED NOTES

IT01	18" LADDER RACK AT 8'-6" AFF. PROVIDE SWEEPING TURNS. PROVIDE WATERFALL DEVICES TO TRANSITION FROM THE LADDER RACKS ABOVE TO THE LADDER RACKS BELOW.
IT02	12" LADDER RACK. MOUNT 7'-6" AFF TO TOP OF DATA RACKS UTILIZING 6" RUNWAY ELEVATION KITS.
IT03	3/4" FIRE-RATED PLYWOOD A/C GRADE. DO NOT PAINT. MOUNT ON ALL WALL INDICATED. MOUNT WITH 'A' SIDE FACING OUTWARDS.
IT05	12-INCH SECONDARY BONDNG BUSBAR. REFER TO DETAIL FOR MORE INFORMATION.
IT06	PROVIDE 18-INCH VERTICAL LADDER RACK FROM FLOOR SLEEVES TO HORIZONTAL LADDER RACK.
IT08	PROVIDE RE-PENETRABLE FIRESTOP SLEEVE(S) FOR CABLE PENETRATION THROUGH RATED WALL. USE STI EZ-PATH SERIES 44+ OR APPROVED EQUAL. CONTRACTOR SHALL COORDINATE FINAL SLEEVE COUNT AND SIZE BASED ON ACTUAL INSTALLED CABLING AND ALLOWANCE FOR FUTURE CAPACITY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
IT09	PROVIDE (1) STI EZ-PATH SERIES 22 DEVICE, OR APPROVED EQUAL, AS A RE-PENETRABLE FIRESTOP PATHWAY FOR BACKBONE CABLING BETWEEN FLOORS. SLEEVE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. COORDINATE FINAL CABLE COUNT TO ENSURE COMPLIANCE WITH MAXIMUM FILL RATIO.
IT14	WIRELESS ACCESS POINT WALL MOUNTED 10'-0" ABOVE FINISHED FLOOR. OWNER SHALL PROVIDE ACCESS POINT AND MOUNTING BRACKET. CONTRACTOR SHALL INSTALL PER MANUFACTURER REQUIREMENTS.
IT20	PROVIDE RE-PENETRABLE FIRESTOP SLEEVE(S) FOR CABLE PENETRATION THROUGH RATED FLOOR. USE STI EZ-PATH SERIES 33+ OR APPROVED EQUAL. CONTRACTOR SHALL COORDINATE FINAL SLEEVE COUNT AND SIZE BASED ON ACTUAL INSTALLED CABLING AND ALLOWANCE FOR FUTURE CAPACITY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

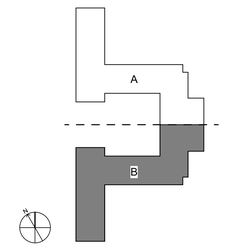
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E ROMEO

RUNCW25 01.15.2025

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE

DESIGN TEAM
JAKE DEJOHN

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

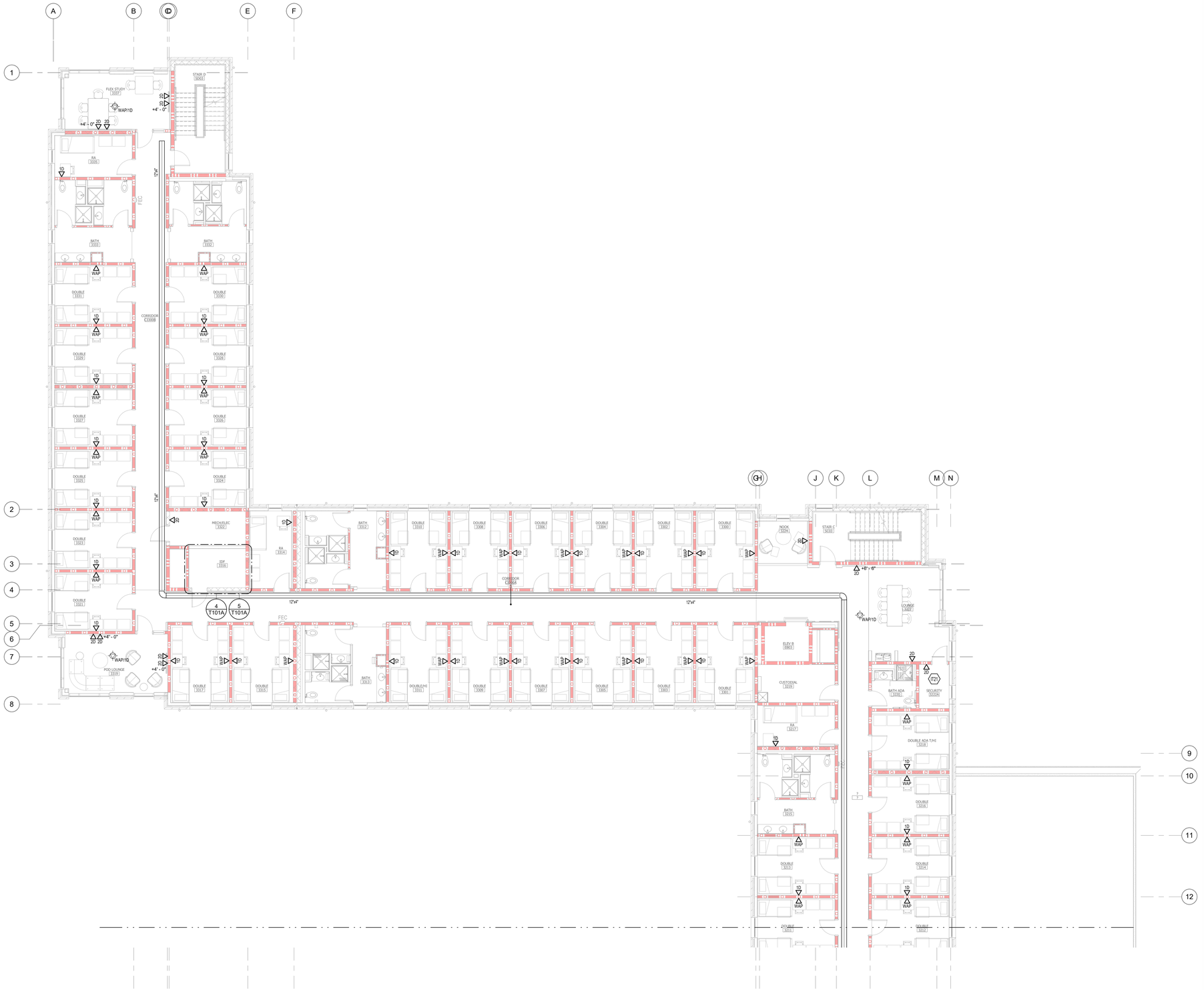
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
TECHNOLOGY PLAN - LEVEL 02 - AREA B

SHEET NUMBER
T102B

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1 TECHNOLOGY PLAN - LEVEL 03-05 - AREA A

1/8" = 1'-0"

0' 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

##

IT21 PROVIDE (1) 4" CONDUIT PATHWAY FROM THIS ROOM TO SECURITY ROOM ON FLOOR BELOW FOR FUTURE BUILDOUT. COORDINATE ROUTING AND TERMINATION LOCATIONS WITH ARCHITECT AND OWNER. PROVIDE PULLSTRING AND CAP BOTH ENDS AND LABEL FOR FUTURE USE. ENSURE PATHWAY IS ACCESSIBLE AND DOES NOT PENETRATE RATED ASSEMBLIES WITHOUT PROPER FIRESTOPPING.

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

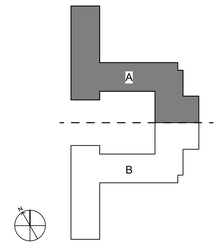
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

KEY PLAN



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DESIGN TEAM
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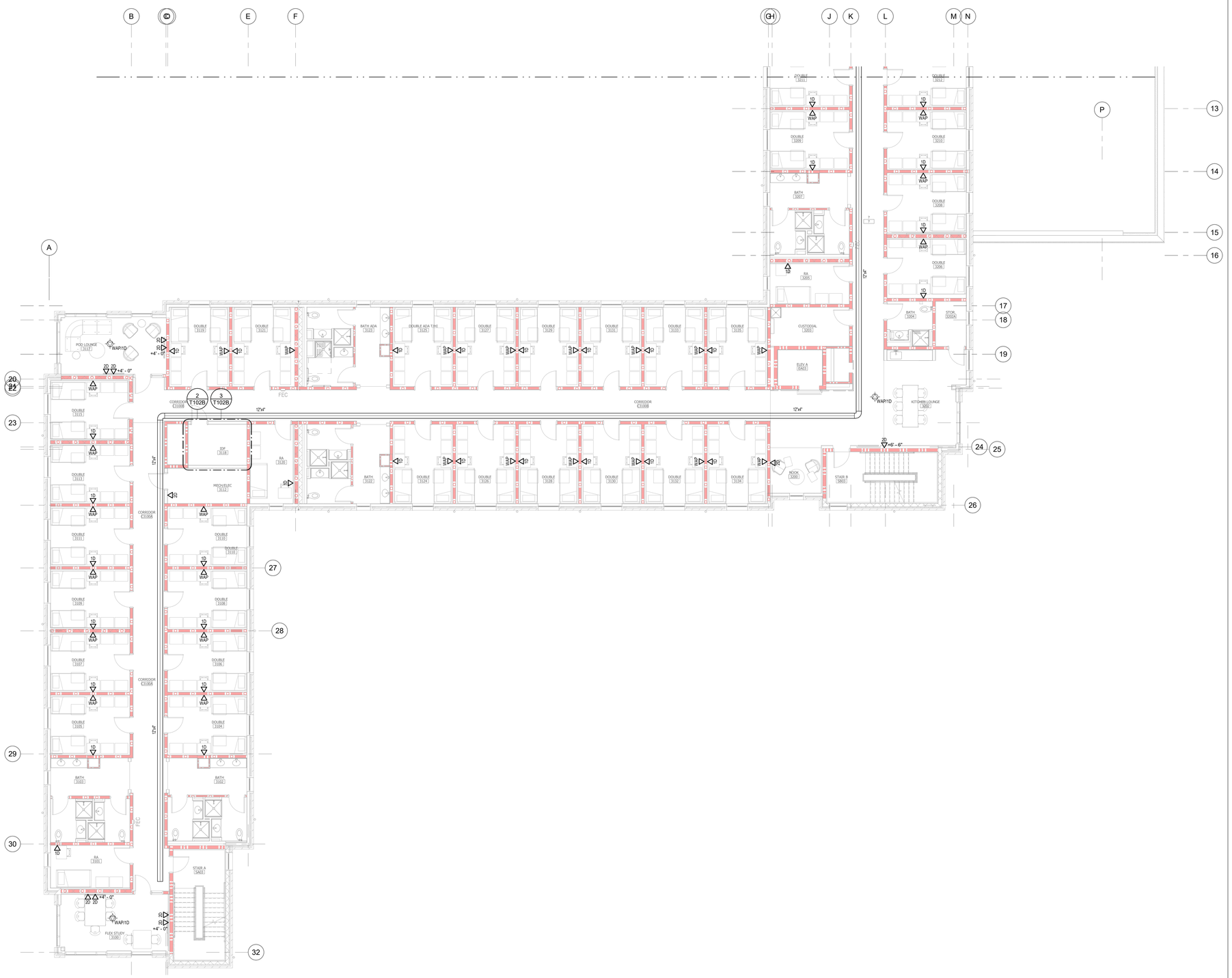
UNC WILMINGTON, NC

PROJECT NO.
514.23018.00

SHEET TITLE
TECHNOLOGY PLAN - LEVEL 03-05 - AREA A

SHEET NUMBER
T103A

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1 TECHNOLOGY PLAN - LEVEL 03-05 - AREA B

1/8" = 1'-0"

0 1' 2' 4' 8' 16' 24' 32'

SHEET KEYED NOTES

##

RATED WALLS AND PARTITIONS

FIRE BARRIERS

2-HR FIRE BARRIER

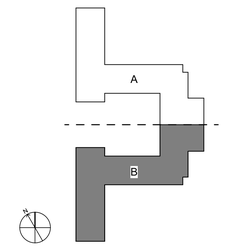
1-HR FIRE BARRIER

FIRE PARTITIONS

1-HR FIRE PARTITION

.5-HR FIRE PARTITION

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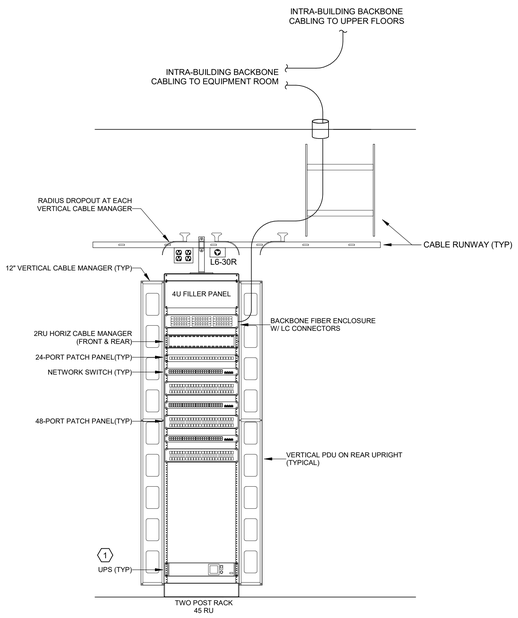
UNC WILMINGTON, NC

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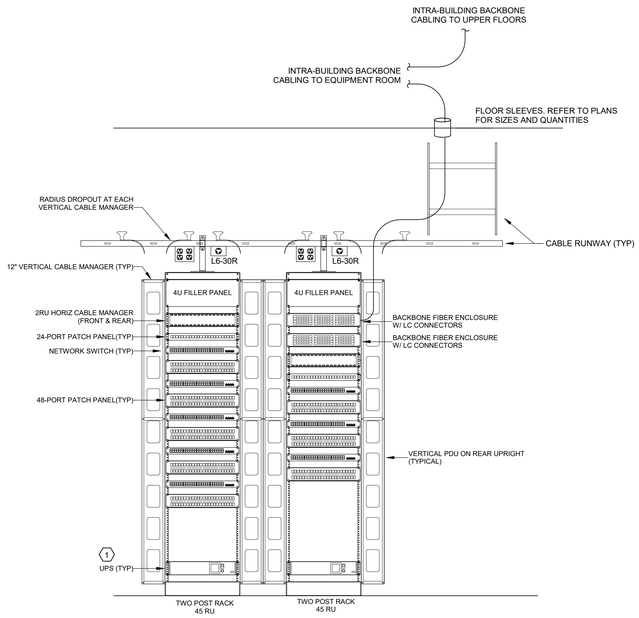
SHEET TITLE
TECHNOLOGY PLAN - LEVEL 03-05 - AREA B

SHEET NUMBER
T103B

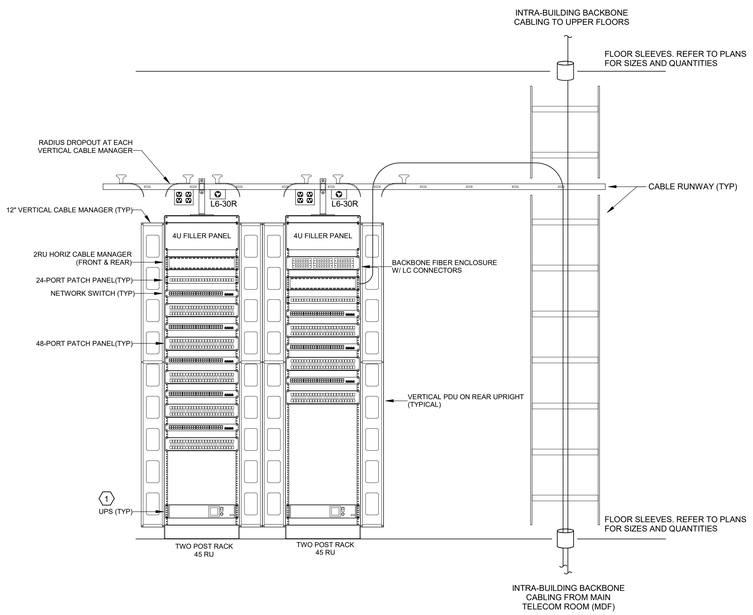
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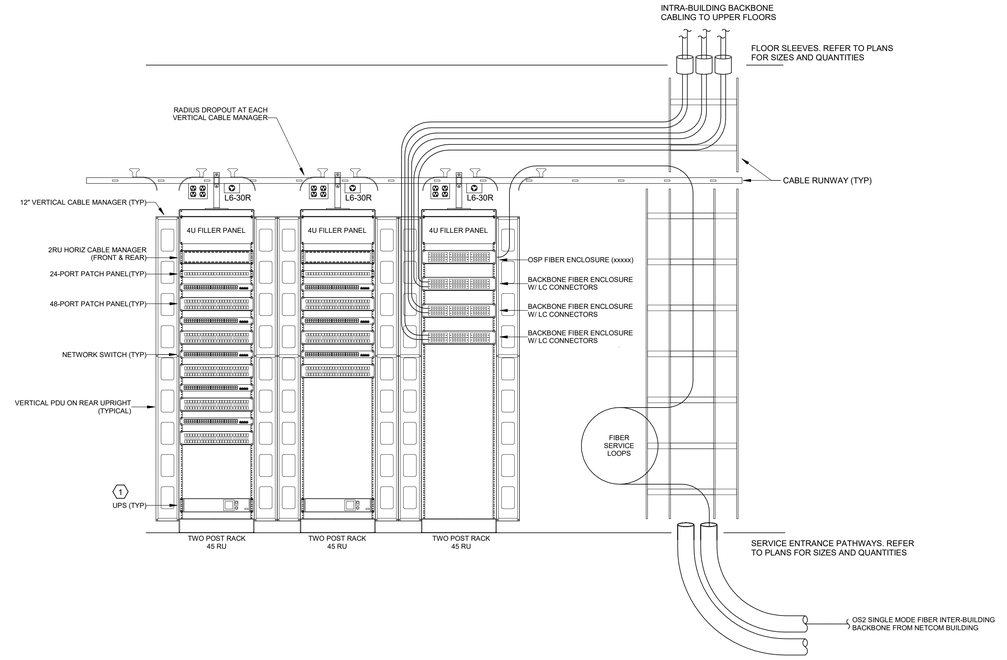
4 SECURITY ROOM ELEVATION
NOT TO SCALE



2 TELECOM ROOM (IDF) ELEVATION - LEVEL 01
NOT TO SCALE



3 TELECOM ROOM (IDF) ELEVATION - LEVEL 02 - 05
NOT TO SCALE



1 EQUIPMENT ROOM (MDF) ELEVATION
NOT TO SCALE

SHEET KEYED NOTES

1. UPS SHALL BE SIZED BASED ON POWER REQUIREMENTS OF EQUIPMENT INSTALLED IN RACK. FINAL LOAD CALCULATIONS TO BE PROVIDED BY CONTRACTOR PRIOR TO PROCUREMENT.

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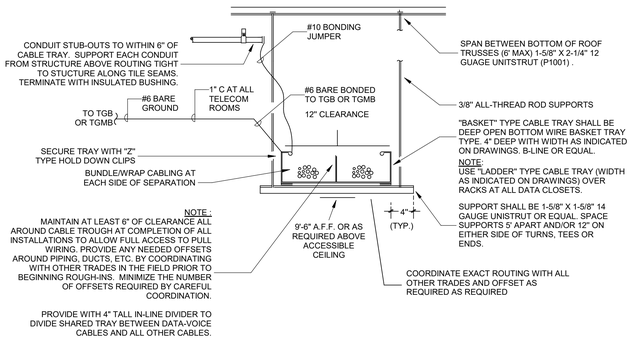
UNC WILMINGTON, NC

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SHEET TITLE
RACK ELEVATIONS

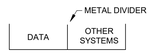
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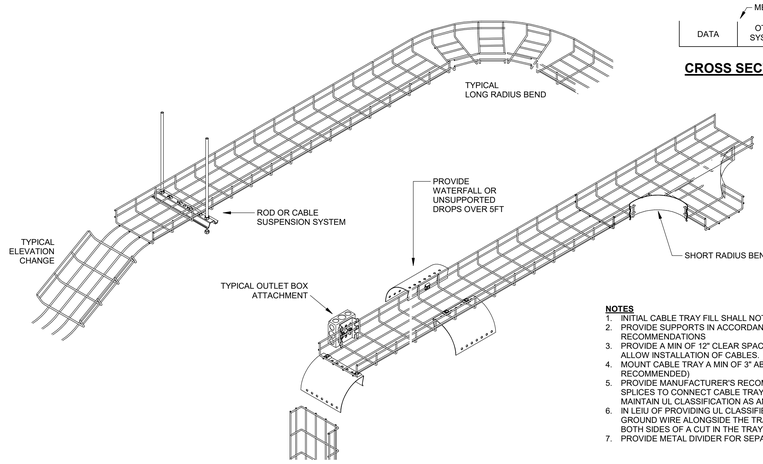


NOTES:
1. INITIAL CABLE TRAY FILL SHALL NOT EXCEED 25%
2. PROVIDE SUPPORTS IN ACCORDANCE WITH NEMA VE2 AND MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE A MIN OF 12" CLEAR SPACE ABOVE THE TOP OF THE CABLE TRAY TO ALLOW INSTALLATION OF CABLES.
4. MOUNT CABLE TRAY A MIN OF 6" ABOVE CEILING TILE AND GRID.
5. PROVIDE MANUFACTURER'S RECOMMENDED QUANTITY OF UL CLASSIFIED SPLICES TO CONNECT CABLE TRAY SECTIONS AND FITTINGS IN ORDER TO MAINTAIN UL CLASSIFICATION AS AN EQUIPMENT GROUNDING CONDUCTOR.
6. PROVIDE METAL DIVIDER FOR SEPARATION OF THE LOW VOLTAGE CABLES.
7. PROVIDE 36" CLEARANCE FROM ONE SIDE OF THE TRAY TO PROTECT ACCESS TO THE TRAY.
8. WATER PIPING IS NOT ALLOWED TO BE INSTALLED PARALLEL ABOVE TRAY., IF THIS IS UNAVOIDABLE DUE TO THE CONSTRAINTS OF THE CEILING SPACE, A DRIP PAN WITH INSTALLED DRAINS MUST BE INSTALLED UNDER THE PIPING IN ORDER TO PROTECT THE CABLES FROM WATER DAMAGE.
9. ELECTRICAL CONDUCTORS ARE NOT ALLOWED TO BE ROUTED IN THE TRAY OR SUPPORTED BY THE TRAY, NOR BE ROUTED PARALLEL WITHIN 12" OF THE TRAY TO PROTECT THE CABLE FROM EMI.
10. CABLE TRAY SHALL BE PROVIDED AT TELECOM ROOMS TO PROVIDE A CONTINUOUS PATHWAY TO THE SLEEVES ENTERING TELECOM ROOMS.

2 CABLE TRAY INSTALLATION DETAIL
NOT TO SCALE

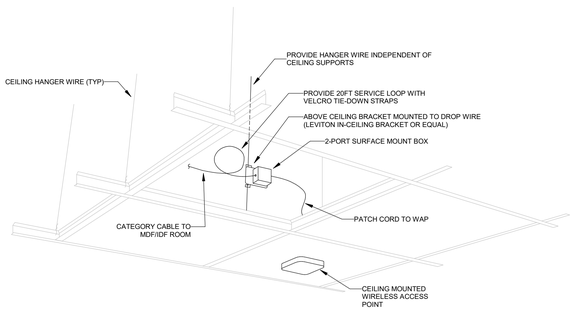


CROSS SECTION

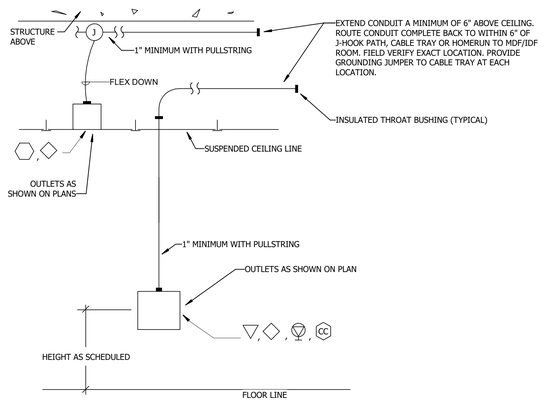


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3. PROVIDE A MIN OF 12" CLEAR SPACE ABOVE THE TOP OF THE CABLE TRAY TO ALLOW INSTALLATION OF CABLES.
4. MOUNT CABLE TRAY A MIN OF 3" ABOVE CEILING TILE AND GRID (6" RECOMMENDED)
5. PROVIDE MANUFACTURER'S RECOMMENDED QUANTITY OF UL CLASSIFIED SPLICES TO CONNECT CABLE TRAY SECTIONS AND FITTINGS IN ORDER TO MAINTAIN UL CLASSIFICATION AS AN EQUIPMENT GROUNDING CONDUCTOR.
6. IN LEIU OF PROVIDING UL CLASSIFIED SPLICES, RUN APPROPRIATELY SIZED GROUND WIRE ALONGSIDE THE TRAY AND ATTACH IT TO EACH TRAY SECTION ON BOTH SIDES OF A CUT IN THE TRAY.
7. PROVIDE METAL DIVIDER FOR SEPARATION OF LOW VOLTAGE CABLES.

5 T-WIRE BASKET CABLE TRAY DETAILS
NOT TO SCALE



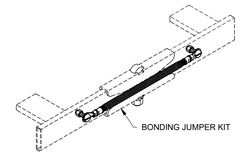
4 TYP CEILING MOUNTED WAP
NOT TO SCALE

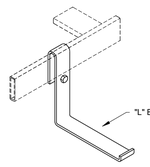


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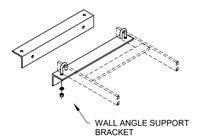
A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON FRONT SHEET. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.
B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
D. INSTALL TELECOMMUNICATION AND WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.

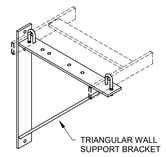
6 ROUGHING-IN DETAIL FOR STUB-OUTS
NOT TO SCALE

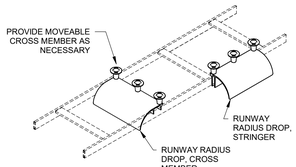


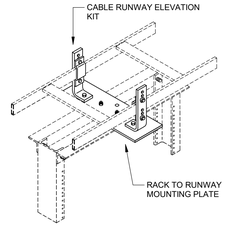


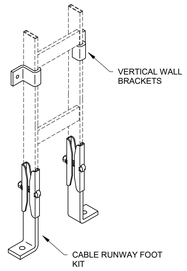
NOTES:
1. PROVIDE UNIVERSAL CABLE RUNWAY AND ALL REQUIRED ACCESSORIES.
2. SUPPORT ACCESSORIES AND HARDWARE ARE TO BE SUPPLIED AS COMPLETE KITS BY RUNWAY MANUFACTURER.
3. ALL DETAILS ON THIS DRAWING ARE DETAILS OF TYPICAL INSTALLATION AND MAY VARY. FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES.
4. PROVIDE RADIUS DROPS WHERE CABLING DROPS OR ENTERS THE RUNWAY.
5. PROVIDE BONDING STRAP BETWEEN ALL SECTIONS
6. ROUTE POWER AND BONDING CONDUCTORS ON AUXILIARY 'L' BRACKET ATTACHED TO SIDE OF RUNWAY.
7. ALL CABLES IN RUNWAY SHALL BE IN 24 CABLE BUNDLES WRAPPED WITH VELCRO HOOK AND LOOP CABLE TIES. ALL CABLES IN BUNDLE SHALL TERMINATE TO SAME PATCH PANEL.

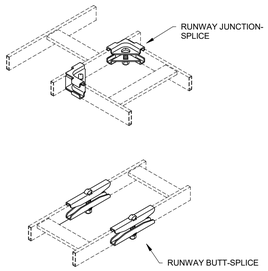






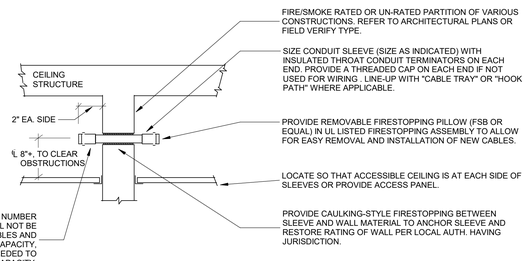






1 T-CABLE RUNWAY DETAILS
NOT TO SCALE

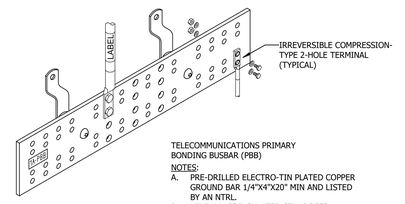
CONDUIT SIZE (in inches)	# OF CABLES
0.75	3
1	6
1.25	9
1.5	14
2	24
2.5	38
3	55
3.5	75
4	98



NOTE: IF THE SLEEVE SIZE AND NUMBER INDICATED ON PLANS WILL NOT BE ADEQUATE TO CONTAIN ALL CABLES AND STILL LEAVE 25% SPARE CAPACITY, PROVIDE ADD'L SLEEVES AS NEEDED TO PROVIDE THIS SPARE CAPACITY.

GENERAL NOTES:
A. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
B. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

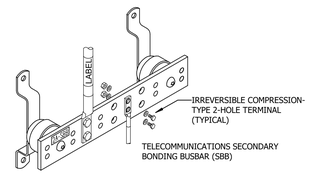
3 SYSTEMS CABLING SLEEVE INSTALLATION
NOT TO SCALE



TELECOMMUNICATIONS PRIMARY BONDING BUSBAR (PBB)

NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL.
B. MINIMUM 2" INSULATED STANDOFFS.
C. BICSI/TIA-607 STYLE HOLE PATTERN.
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

7 GROUND BAR - PBB
NOT TO SCALE



TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB)

NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X2"X12" MIN AND LISTED BY AN NTRL.
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

8 GROUND BAR - SBB
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E ROMEO

RUNCW25 01.15.2025

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
JAKE DEJOHN

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

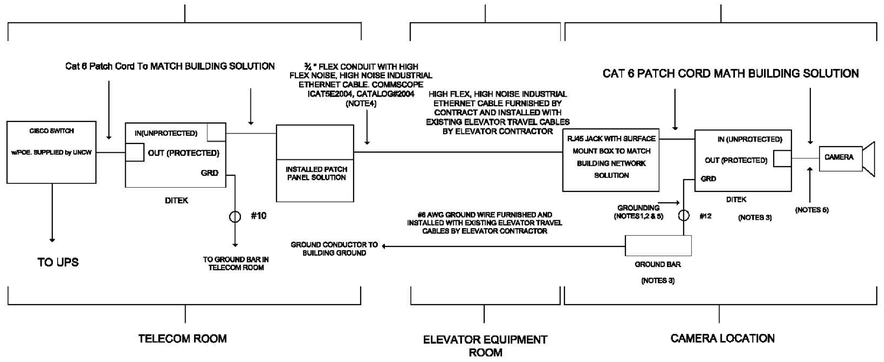
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PROJECT NO.
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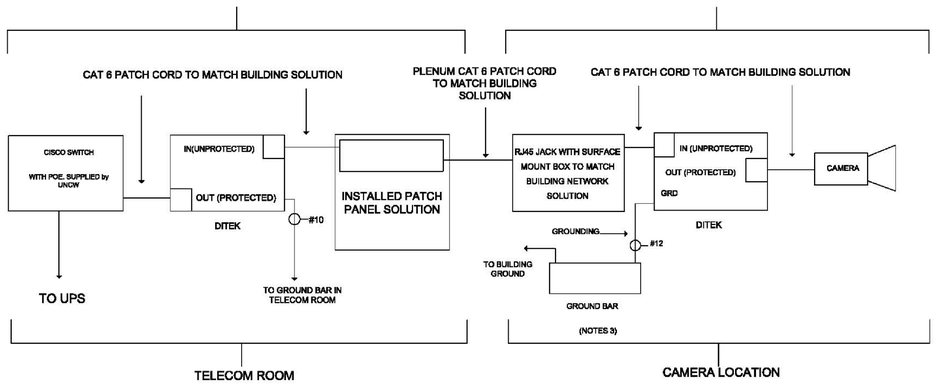
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SHEET NUMBER
T701

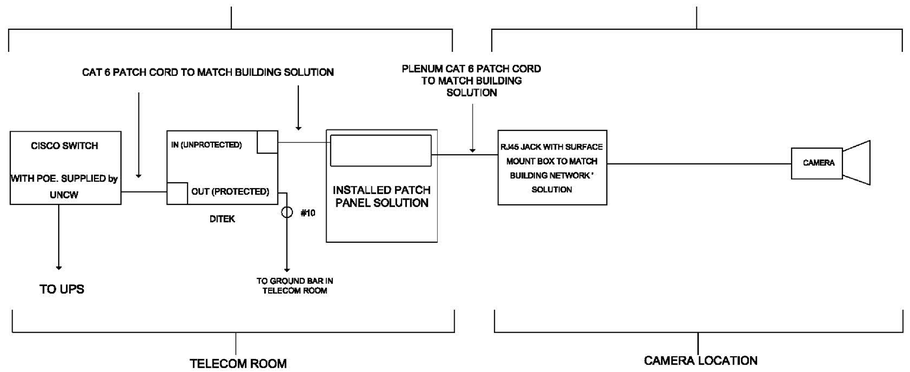
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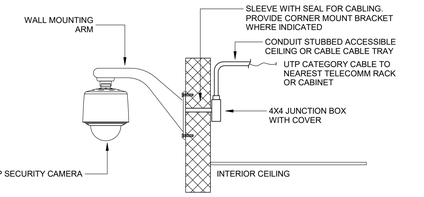
2 TYPICAL ELEVATOR CAMERA INSTALLATION
NOT TO SCALE



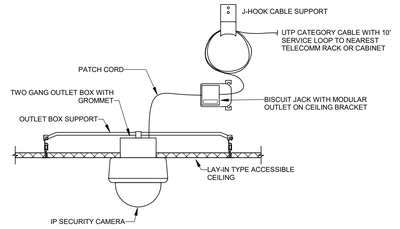
3 TYPICAL EXTERNAL CAMERA INSTALLATION
NOT TO SCALE



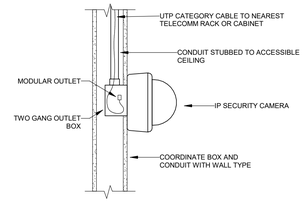
4 TYPICAL INTERIOR CAMERA INSTALLATION
NOT TO SCALE



5 CCTV OUTDOOR ARM MOUNT DETAIL
NOT TO SCALE



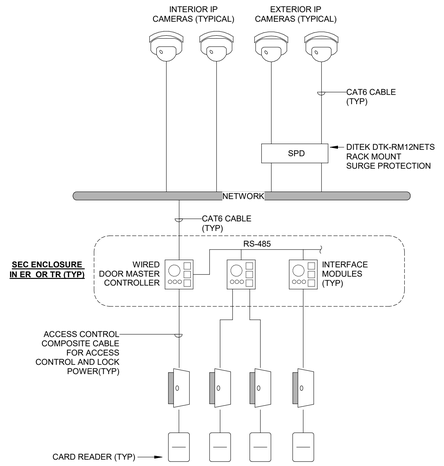
6 CCTV INDOOR CEILING MOUNT
NOT TO SCALE



7 CCTV INDOOR WALL MOUNT
NOT TO SCALE

CCTV CAMERA SCHEDULE

TYPE	DESCRIPTION	MOUNTING	HOUSING	BASIS OF DESIGN	
				MANUF	MODEL
C1	12MP INDOOR FISHEYE MINI DOME, 360°/180° PANORAMIC, DEEP LEARNING, DIGITAL PTZ	CEILING	IP67, IK10	AXIS	M4328-P
C2	6MP CORNER-MOUNT PANORAMIC, NO BLIND SPOTS, LIGHTFINDER + FORENSIC WDR, BUILT-IN MIC	ELEVATOR	IP67, IK10	AXIS	P9117-PV
C3	DUAL-SENSOR 2×5MP MULTIDIRECTIONAL, 360° IR, LIGHTFINDER + FORENSIC WDR, DEEP LEARNING	WALL	IP67, IK10	AXIS	P4707-PLVE
C4	4×5MP MULTIDIRECTIONAL, 360° IR, DEEP LEARNING ANALYTICS	CORNER ARM	IP67, IK10	AXIS	P3737-PLE
C5	DUAL-SENSOR 2×5MP MULTIDIRECTIONAL, 360° IR, LIGHTFINDER + FORENSIC WDR, DEEP LEARNING	WALL	IP67, IK10	AXIS	P4707-PLVE
C6	13MP 3-SENSOR PANORAMIC, 180°/90° SEAMLESS STITCHED VIEW, NO BLIND SPOTS	WALL	IP67, IK10	AXIS	P3818-PVE
C7	4K BULLET, LIGHTFINDER 2.0, FORENSIC WDR, OPTIMIZEDIR, DEEP LEARNING	WALL	IP67, IK10	AXIS	P1468-LE



1 SECURITY SYSTEM BLOCK DIAGRAM
NOT TO SCALE

NOTES:

1. PROVIDE LENELS2 ACCESS CONTROL SYSTEM USING THE LENELS2 NETBOX PLATFORM WITH INTEGRATED CONTROLLER MODULES. INTEGRATE WITH THE EXISTING CAMPUS-WIDE CREDENTIAL MANAGEMENT SYSTEM IF SUPPORTED.
2. PROVIDE HID SIGNO SERIES CARD READERS COMPATIBLE WITH THE LENELS2 SYSTEM. READERS SHALL USE THE OSDP PROTOCOL FOR SECURE COMMUNICATION AND BE POWERED VIA POE UNLESS OTHERWISE NOTED.
3. RISER DIAGRAM IS PROVIDED TO ILLUSTRATE DESIGN INTENT AND DEVICE INTERCONNECTION ONLY. CONFIRM ALL DEVICE LOCATIONS, QUANTITIES, AND MOUNTING DETAILS WITH FLOOR PLANS AND MANUFACTURER INSTALLATION INSTRUCTIONS.
4. PROVIDE RS-485 CABLING BETWEEN NETBOX CONTROLLER MODULES AND ASSOCIATED FIELD DEVICES AS REQUIRED. USE SHIELDED, TWISTED-PAIR, PLENUM-RATED CABLING FOR ALL DATA CONNECTIONS.
5. PROVIDE UL 294-LISTED ACCESS CONTROL POWER SUPPLIES WHERE LOCAL POWER IS REQUIRED FOR SYSTEM COMPONENTS NOT POWERED BY POE. ALTRONIX OR LIFESAFETY POWER SUPPLIES ARE ACCEPTABLE.

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NORTH CAROLINA PROFESSIONAL SEAL 043650 ENGINEER STEPHEN E. ROBEY

RUNCW25 01.15.2025

SCO # 24-29053-02D

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PROJECT MANAGER
DAN KNOX, PE
DESIGN TEAM
JAKE DEJOHN

PROJECT NAME
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON HOUSING VILLAGE PHASE 3

UNC WILMINGTON, NC

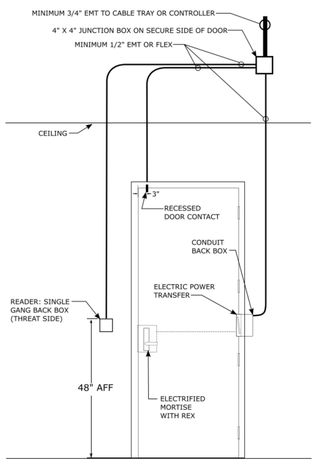
PROJECT NO.
514.23018.00

SHEET TITLE
SECURITY DETAILS

SHEET NUMBER
T702

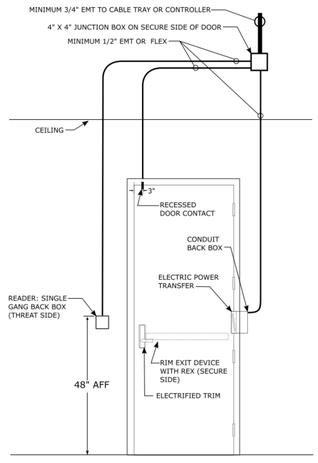
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Single Door Electrified Mortise



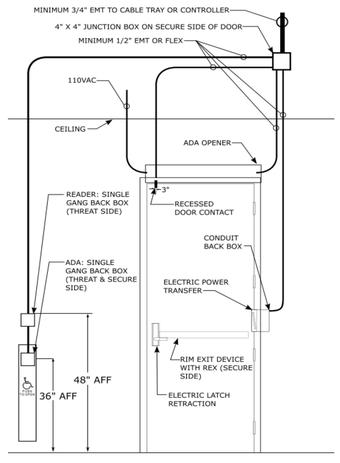
Note: All Conduit and Cabling is Concealed.

Single Door, Electrified Trim



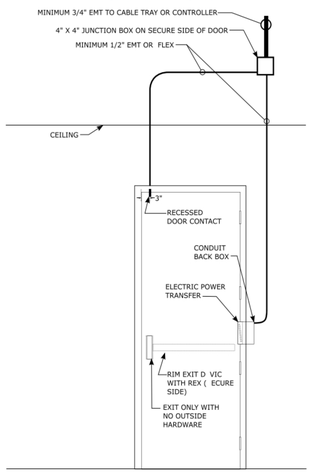
Note: All Conduit and Cabling is Concealed.

Single Door with Door Operator (ADA)

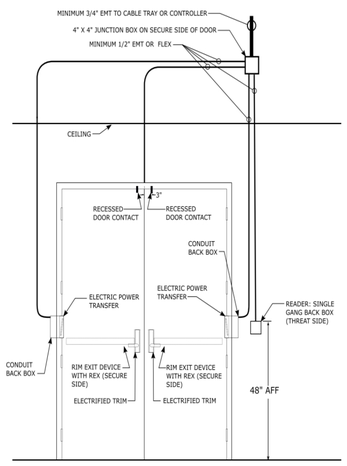


Note: All Conduit and Cabling is Concealed in Wall or Storefront.

Single Door, Monitoring Only

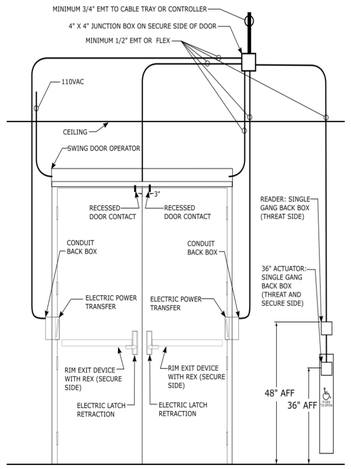


Double Door, Electrified Trim



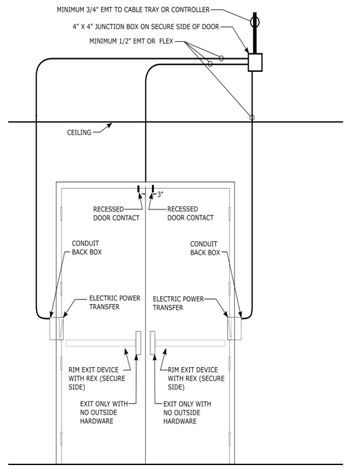
Note: All Conduit and Cabling is Concealed.

Double Door with Door Operator (ADA)



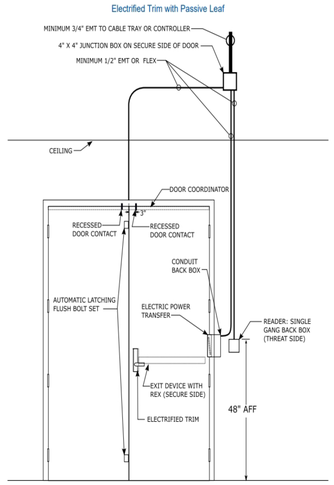
Note: All Conduit and Cabling is Concealed.

Double Door, Monitoring Only



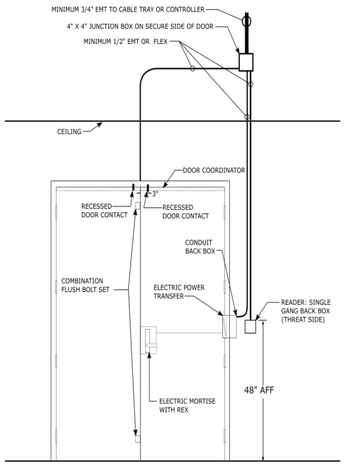
Note: All Conduit and Cabling is Concealed.

Electrified Trim with Passive Leaf



Note: All Conduit and Cabling is Concealed.

Electrified Mortise with Passive Leaf



Note: All Conduit and Cabling is Concealed.

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UNC WILMINGTON, NC

PROJECT NO.
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SHEET TITLE
ACCESS CONTROL DETAILS

SHEET NUMBER
T703

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